

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: P453933

Luminaire Tested: **GLAN-SA5A-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21829 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 154  
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

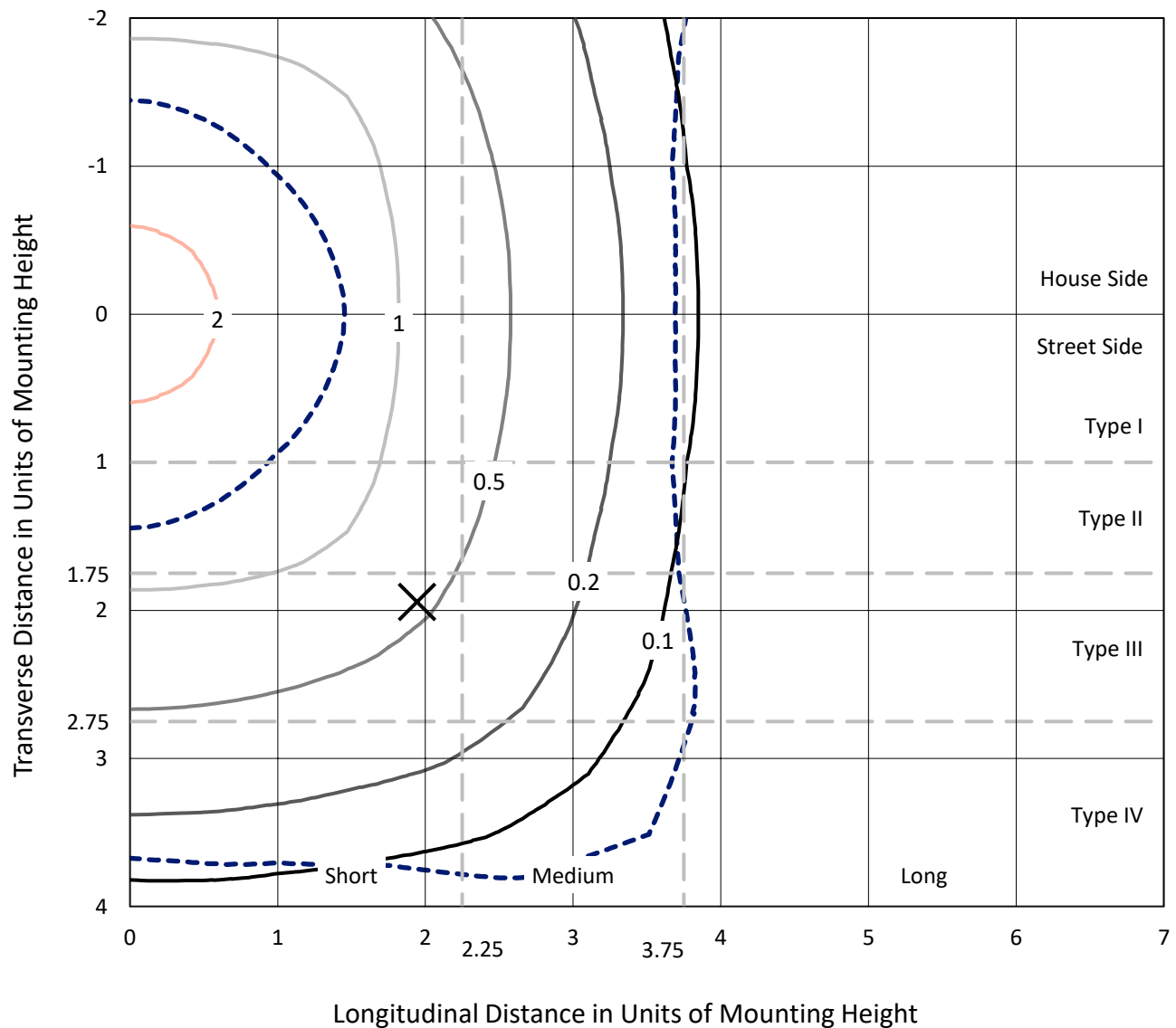


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



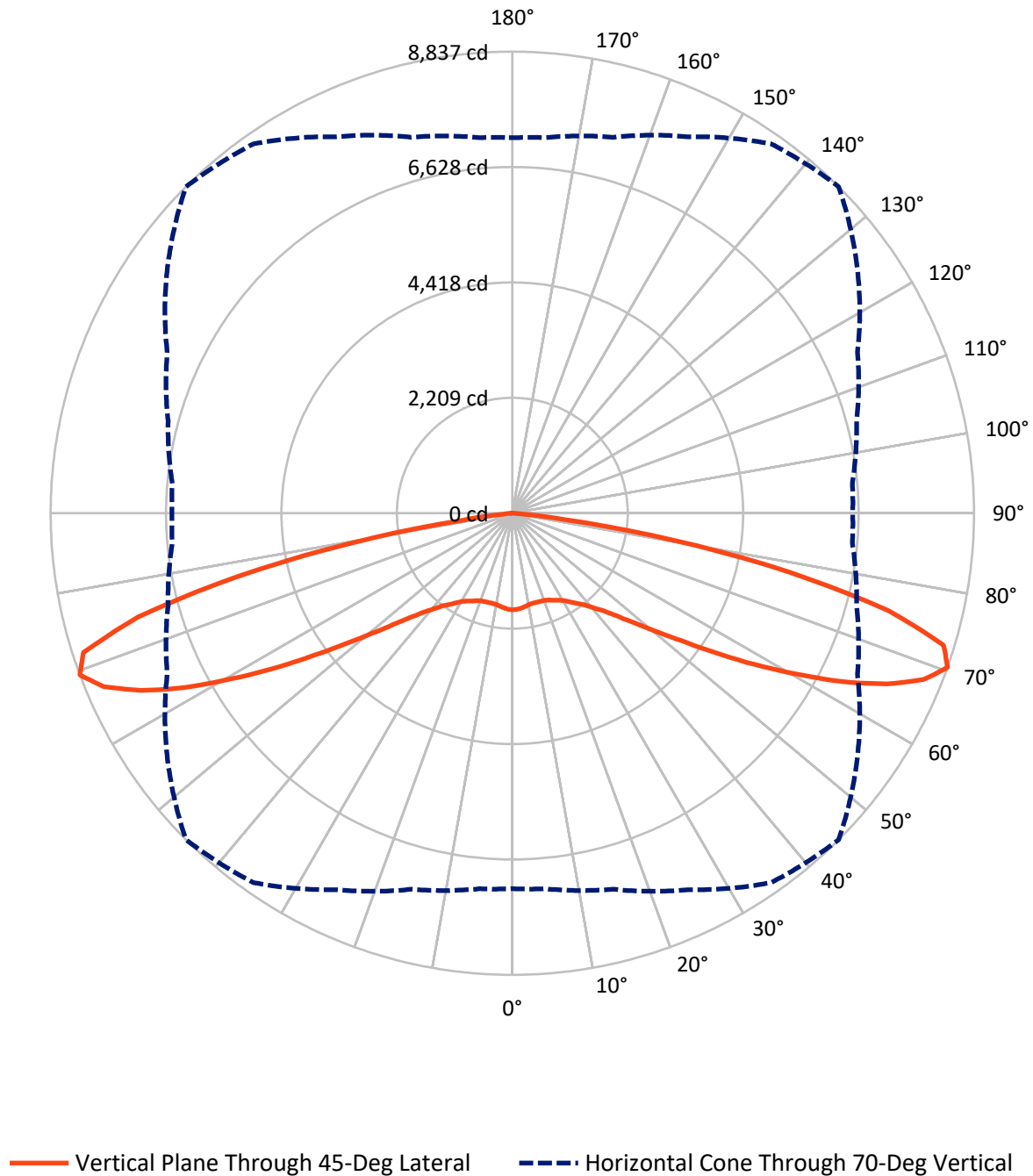
Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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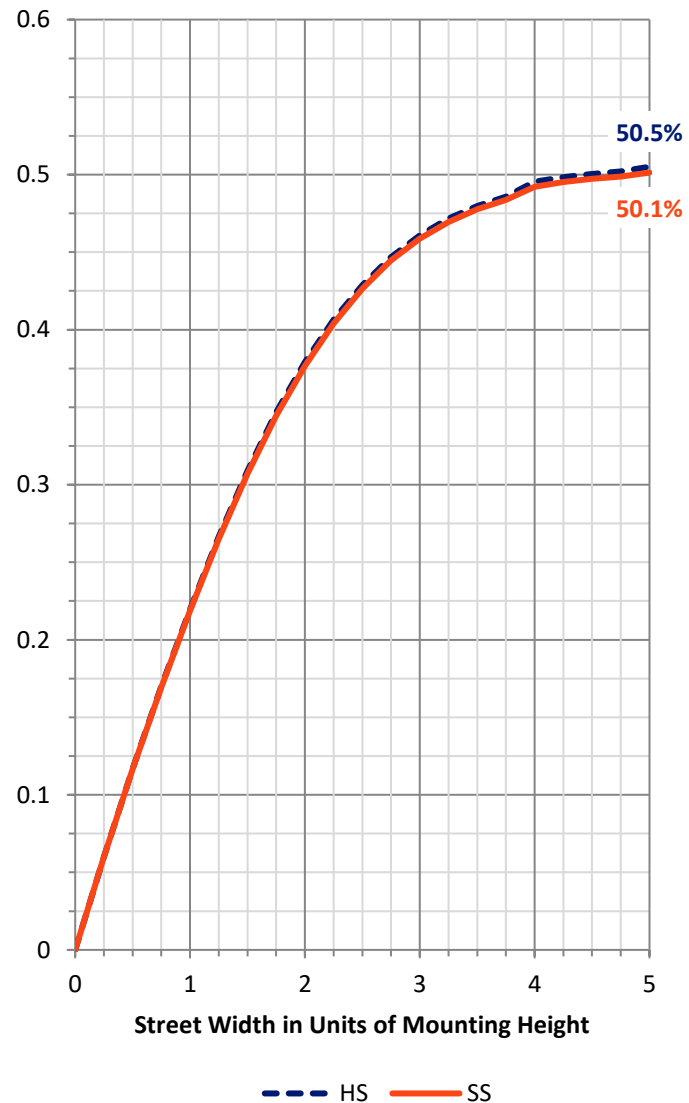
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10914.5  | 0.0    | 10914.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10914.5  | 0.0    | 10914.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21829.0  | 0.0    | 21829.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 172.8   | 0.8       |
| 10°-20°   | 506.0   | 2.3       |
| 20°-30°   | 862.1   | 3.9       |
| 30°-40°   | 1336.2  | 6.1       |
| 40°-50°   | 2249.0  | 10.3      |
| 50°-60°   | 4091.9  | 18.7      |
| 60°-70°   | 6927.5  | 31.7      |
| 70°-80°   | 5362.2  | 24.6      |
| 80°-90°   | 321.3   | 1.5       |
| 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°    | 21829.0 | 100.0     |
| 0°-180°   | 21829.0 | 100.0     |

**Coefficient of Utilization**



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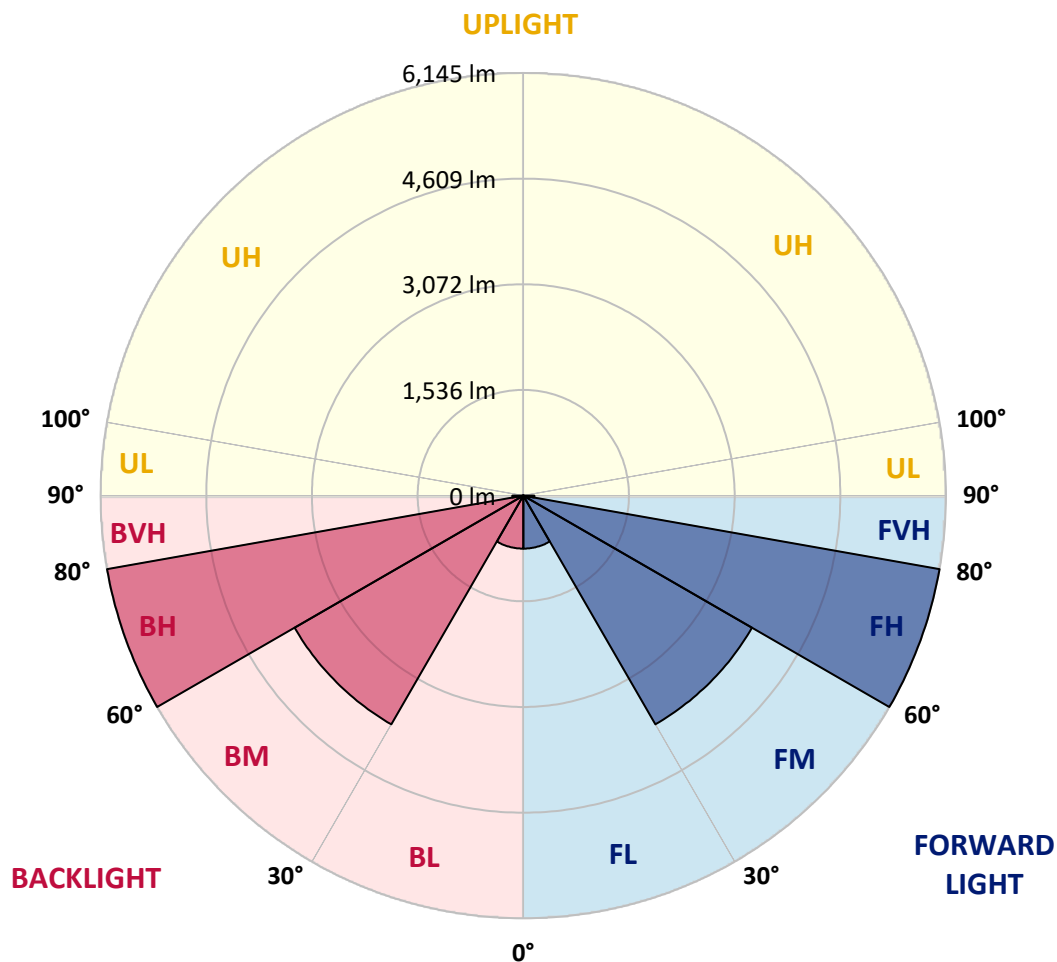
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 770.4  | 3.5       |                         |      |         |
| FM   | (30°-60°)   | 3838.6 | 17.6      |                         |      |         |
| FH   | (60°-80°)   | 6144.9 | 28.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 160.7  | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 770.4  | 3.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3838.6 | 17.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6144.9 | 28.1      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 160.7  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 | 1848.1 |
| 2.5°  | 1843.5 | 1844.6 | 1844.6 | 1842.3 | 1841.2 | 1841.2 | 1840.0 | 1840.0 | 1843.5 | 1844.6 | 1845.8 |
| 5°    | 1827.3 | 1827.3 | 1827.3 | 1826.2 | 1823.9 | 1823.9 | 1821.6 | 1821.6 | 1822.7 | 1826.2 | 1823.9 |
| 7.5°  | 1805.4 | 1807.7 | 1807.7 | 1803.1 | 1799.7 | 1799.7 | 1798.5 | 1799.7 | 1800.8 | 1804.3 | 1803.1 |
| 10°   | 1798.5 | 1799.7 | 1793.9 | 1785.8 | 1780.1 | 1776.6 | 1777.8 | 1780.1 | 1785.8 | 1788.1 | 1789.3 |
| 12.5° | 1803.1 | 1803.1 | 1792.8 | 1781.2 | 1770.8 | 1766.2 | 1765.1 | 1773.2 | 1783.5 | 1790.4 | 1792.8 |
| 15°   | 1808.9 | 1806.6 | 1793.9 | 1778.9 | 1768.5 | 1767.4 | 1766.2 | 1772.0 | 1787.0 | 1800.8 | 1802.0 |
| 17.5° | 1812.4 | 1811.2 | 1795.1 | 1776.6 | 1770.8 | 1770.8 | 1769.7 | 1774.3 | 1790.4 | 1807.7 | 1808.9 |
| 20°   | 1823.9 | 1820.4 | 1802.0 | 1782.4 | 1777.8 | 1780.1 | 1776.6 | 1782.4 | 1799.7 | 1820.4 | 1825.0 |
| 22.5° | 1846.9 | 1843.5 | 1825.0 | 1805.4 | 1803.1 | 1803.1 | 1802.0 | 1807.7 | 1826.2 | 1848.1 | 1851.6 |
| 25°   | 1874.6 | 1871.2 | 1853.9 | 1840.0 | 1842.3 | 1846.9 | 1844.6 | 1845.8 | 1860.8 | 1879.2 | 1885.0 |
| 27.5° | 1911.5 | 1905.7 | 1890.7 | 1879.2 | 1886.1 | 1886.1 | 1886.1 | 1885.0 | 1894.2 | 1911.5 | 1917.3 |
| 30°   | 1956.5 | 1954.2 | 1938.0 | 1936.9 | 1942.6 | 1936.9 | 1936.9 | 1938.0 | 1939.2 | 1955.3 | 1961.1 |
| 32.5° | 2015.3 | 2010.7 | 2002.6 | 2000.3 | 2016.4 | 2021.0 | 2004.9 | 1989.9 | 1998.0 | 2014.1 | 2017.6 |
| 35°   | 2112.1 | 2105.2 | 2093.7 | 2081.0 | 2093.7 | 2115.6 | 2081.0 | 2069.4 | 2090.2 | 2112.1 | 2114.4 |
| 37.5° | 2243.5 | 2240.1 | 2221.6 | 2198.6 | 2197.4 | 2220.5 | 2184.7 | 2183.6 | 2222.8 | 2249.3 | 2252.8 |
| 40°   | 2408.4 | 2411.9 | 2388.8 | 2366.9 | 2355.4 | 2373.8 | 2346.1 | 2356.5 | 2394.6 | 2424.5 | 2422.2 |
| 42.5° | 2640.1 | 2627.4 | 2591.7 | 2571.0 | 2558.3 | 2551.4 | 2544.4 | 2560.6 | 2603.2 | 2635.5 | 2660.9 |
| 45°   | 2911.1 | 2906.5 | 2861.5 | 2836.1 | 2808.5 | 2798.1 | 2795.8 | 2824.6 | 2876.5 | 2915.7 | 2919.1 |
| 47.5° | 3217.7 | 3207.4 | 3178.5 | 3152.0 | 3141.6 | 3129.0 | 3117.4 | 3139.3 | 3191.2 | 3218.9 | 3227.0 |
| 50°   | 3533.6 | 3535.9 | 3535.9 | 3531.3 | 3541.7 | 3544.0 | 3512.9 | 3520.9 | 3549.8 | 3547.5 | 3545.2 |
| 52.5° | 3894.5 | 3907.2 | 3967.1 | 3972.9 | 4022.5 | 4055.9 | 3999.4 | 3966.0 | 3955.6 | 3893.3 | 3897.9 |
| 55°   | 4318.7 | 4330.3 | 4420.2 | 4510.1 | 4643.9 | 4700.4 | 4581.6 | 4477.8 | 4404.1 | 4309.5 | 4314.1 |
| 57.5° | 4847.9 | 4853.7 | 4939.0 | 5111.9 | 5324.1 | 5456.7 | 5248.0 | 5042.8 | 4892.9 | 4803.0 | 4767.2 |
| 60°   | 5417.5 | 5423.2 | 5547.7 | 5758.7 | 6088.4 | 6249.8 | 5991.6 | 5656.1 | 5467.0 | 5329.8 | 5339.1 |
| 62.5° | 6101.1 | 6124.2 | 6236.0 | 6526.5 | 6926.6 | 7107.6 | 6765.2 | 6316.7 | 6060.8 | 5890.1 | 5897.1 |
| 65°   | 6833.2 | 6872.4 | 6994.6 | 7314.0 | 7682.9 | 7877.7 | 7458.1 | 6940.4 | 6622.2 | 6413.6 | 6435.5 |
| 67.5° | 7308.2 | 7342.8 | 7519.2 | 7872.0 | 8332.0 | 8493.4 | 7951.5 | 7348.6 | 6950.8 | 6701.8 | 6655.7 |
| 70°   | 7187.2 | 7216.0 | 7451.2 | 7951.5 | 8632.9 | 8836.9 | 8069.1 | 7288.6 | 6820.5 | 6533.5 | 6515.0 |
| 72.5° | 6344.4 | 6284.4 | 6628.0 | 7346.3 | 8289.3 | 8631.7 | 7699.0 | 6656.8 | 6067.7 | 5772.5 | 5738.0 |
| 75°   | 4204.6 | 4334.9 | 4842.2 | 5688.4 | 7013.1 | 7437.3 | 6571.5 | 5344.8 | 4603.5 | 4357.9 | 4319.9 |
| 77.5° | 1405.4 | 1505.7 | 1956.5 | 3224.6 | 4781.1 | 5418.6 | 4788.0 | 3495.6 | 2473.0 | 1992.2 | 2001.4 |
| 80°   | 372.4  | 367.8  | 476.1  | 886.6  | 2066.0 | 3138.2 | 2404.9 | 1184.0 | 647.9  | 469.2  | 445.0  |
| 82.5° | 133.7  | 149.9  | 192.5  | 245.6  | 547.6  | 975.3  | 688.3  | 332.0  | 243.3  | 179.9  | 174.1  |
| 85°   | 58.8   | 57.6   | 83.0   | 98.0   | 137.2  | 182.2  | 161.4  | 140.7  | 123.4  | 81.9   | 76.1   |
| 87.5° | 12.7   | 12.7   | 19.6   | 15.0   | 24.2   | 24.2   | 30.0   | 35.7   | 36.9   | 24.2   | 19.6   |
| 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)