

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: P316496

Luminaire Tested: **GAN-SA2D-740-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16676 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

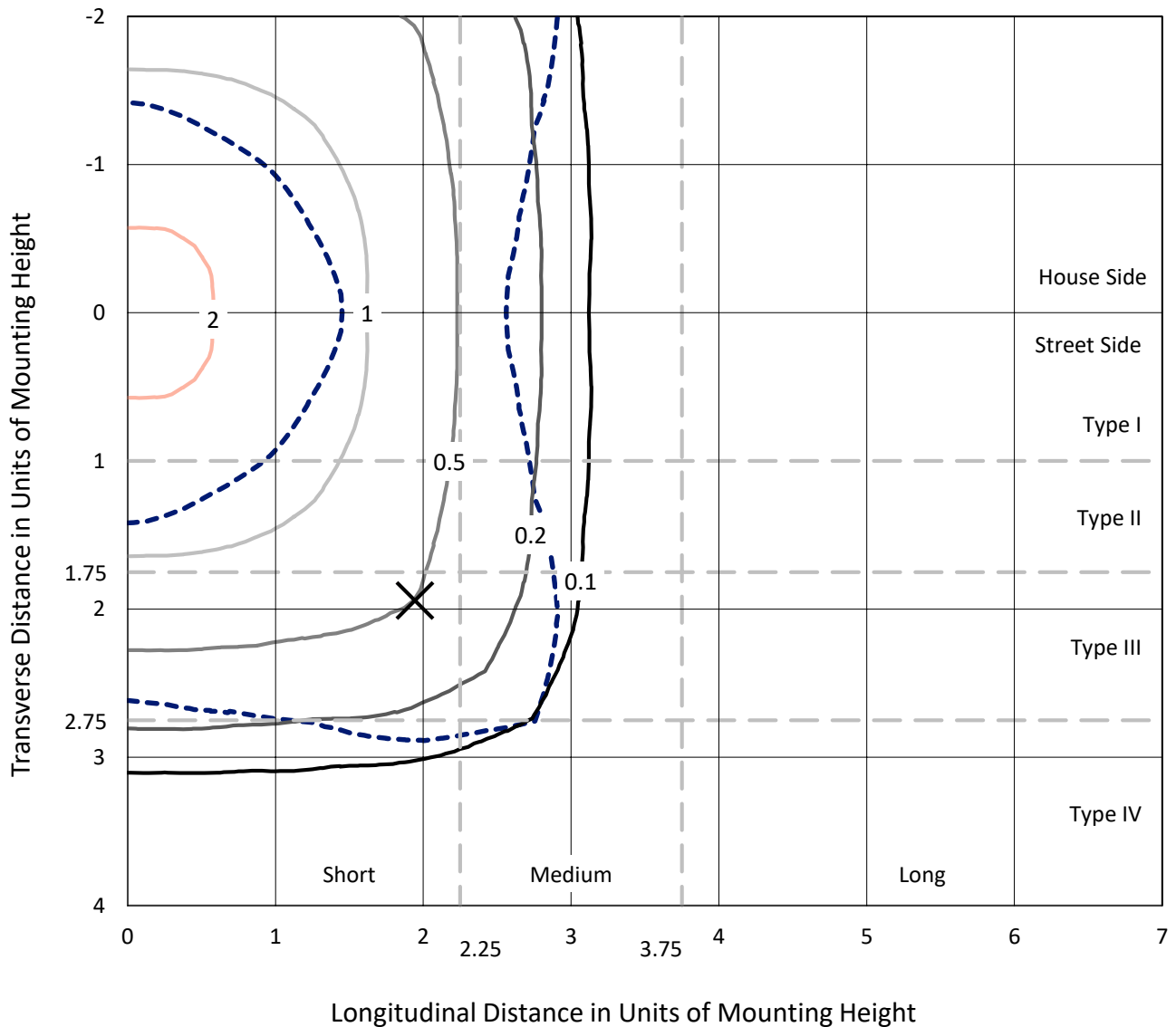
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

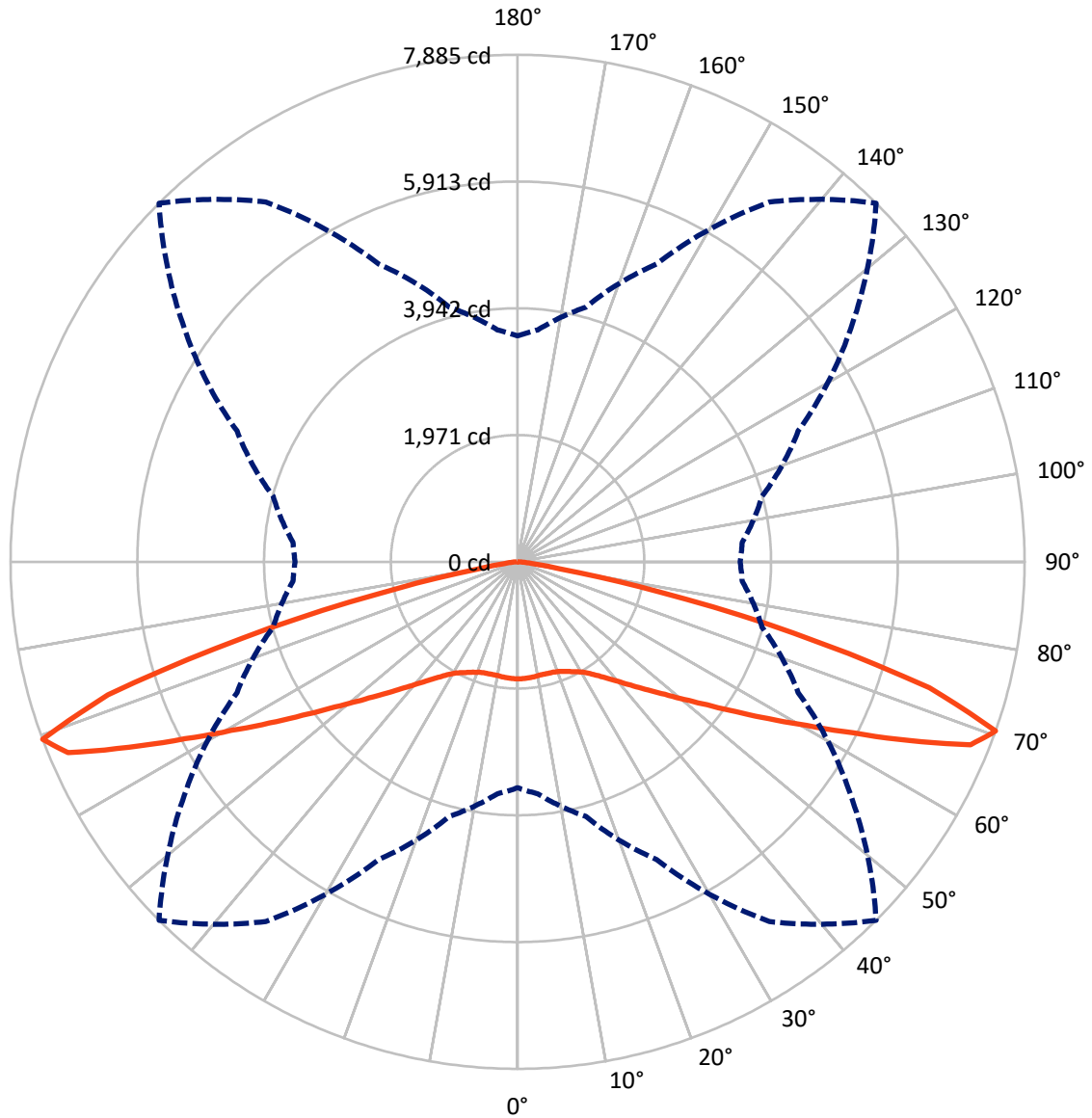
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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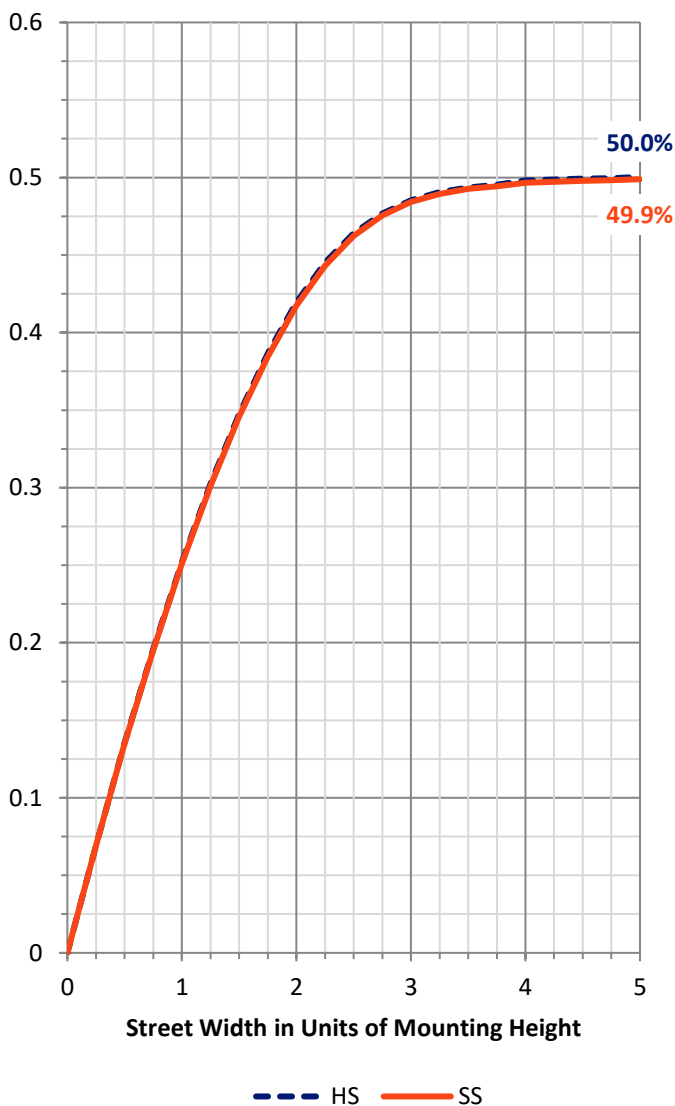
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8338.0   | 0.0    | 8338.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8338.0   | 0.0    | 8338.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16676.0  | 0.0    | 16676.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 172.5   | 1.0       |
| 10°-20°   | 506.4   | 3.0       |
| 20°-30°   | 862.1   | 5.2       |
| 30°-40°   | 1367.2  | 8.2       |
| 40°-50°   | 2224.9  | 13.3      |
| 50°-60°   | 3668.4  | 22.0      |
| 60°-70°   | 5385.3  | 32.3      |
| 70°-80°   | 2381.4  | 14.3      |
| 80°-90°   | 107.8   | 0.6       |
| 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°    | 16676.0 | 100.0     |
| 0°-180°   | 16676.0 | 100.0     |

**Coefficient of Utilization**



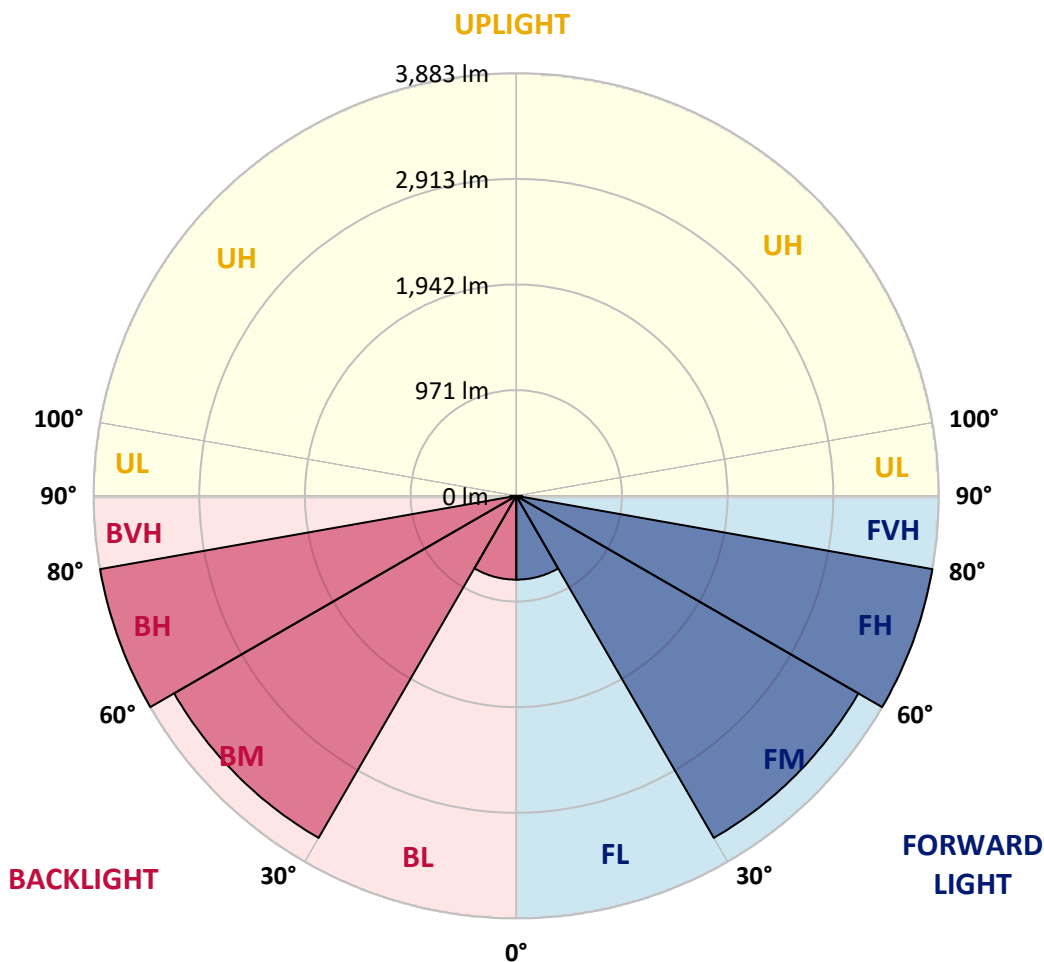
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 770.5  | 4.6       |                         |      |         |
| FM (30°-60°)   | 3630.2 | 21.8      |                         |      |         |
| FH (60°-80°)   | 3883.4 | 23.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 53.9   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 770.5  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 3630.2 | 21.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 3883.4 | 23.3      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 53.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 | 1821.3 |
| 2.5°  | 1818.5 | 1816.9 | 1820.7 | 1820.2 | 1816.9 | 1817.4 | 1817.4 | 1819.1 | 1819.1 | 1818.0 | 1818.0 |
| 5°    | 1811.9 | 1810.8 | 1815.2 | 1815.2 | 1811.9 | 1813.0 | 1814.1 | 1815.8 | 1815.2 | 1814.1 | 1813.6 |
| 7.5°  | 1803.6 | 1803.1 | 1807.5 | 1807.5 | 1805.3 | 1806.4 | 1805.3 | 1805.8 | 1804.7 | 1803.6 | 1802.0 |
| 10°   | 1789.8 | 1790.9 | 1794.8 | 1795.9 | 1795.9 | 1796.4 | 1795.3 | 1792.6 | 1790.9 | 1789.3 | 1787.6 |
| 12.5° | 1777.1 | 1776.6 | 1782.1 | 1784.9 | 1789.3 | 1794.2 | 1790.9 | 1783.2 | 1779.9 | 1776.6 | 1775.5 |
| 15°   | 1768.8 | 1769.4 | 1774.9 | 1779.9 | 1787.6 | 1798.1 | 1794.2 | 1782.1 | 1775.5 | 1771.6 | 1770.5 |
| 17.5° | 1767.2 | 1768.3 | 1775.5 | 1784.3 | 1792.6 | 1804.2 | 1802.0 | 1789.8 | 1778.8 | 1771.6 | 1770.0 |
| 20°   | 1771.1 | 1771.6 | 1782.6 | 1795.3 | 1809.7 | 1820.7 | 1815.8 | 1802.5 | 1787.6 | 1776.6 | 1773.8 |
| 22.5° | 1778.2 | 1780.4 | 1794.2 | 1814.1 | 1836.2 | 1851.1 | 1845.0 | 1822.4 | 1799.2 | 1785.4 | 1781.5 |
| 25°   | 1800.9 | 1801.4 | 1820.2 | 1847.2 | 1873.7 | 1890.8 | 1883.6 | 1851.6 | 1821.8 | 1806.4 | 1801.4 |
| 27.5° | 1847.8 | 1849.4 | 1868.2 | 1899.6 | 1922.3 | 1933.3 | 1928.9 | 1903.0 | 1877.6 | 1861.0 | 1862.7 |
| 30°   | 1915.7 | 1917.9 | 1938.8 | 1973.6 | 1987.4 | 1990.2 | 1989.1 | 1976.9 | 1953.7 | 1931.7 | 1933.3 |
| 32.5° | 1998.4 | 1999.5 | 2027.7 | 2059.1 | 2070.2 | 2072.4 | 2070.2 | 2059.1 | 2031.6 | 2001.8 | 2003.4 |
| 35°   | 2105.0 | 2108.3 | 2135.3 | 2165.7 | 2174.5 | 2178.9 | 2175.0 | 2160.7 | 2132.0 | 2102.7 | 2101.6 |
| 37.5° | 2236.3 | 2236.9 | 2265.0 | 2296.5 | 2307.5 | 2308.6 | 2304.2 | 2294.8 | 2258.9 | 2232.4 | 2230.8 |
| 40°   | 2388.6 | 2390.8 | 2424.0 | 2457.6 | 2462.0 | 2457.1 | 2463.1 | 2457.6 | 2420.6 | 2390.3 | 2395.3 |
| 42.5° | 2574.1 | 2579.0 | 2618.8 | 2651.9 | 2639.2 | 2636.4 | 2640.3 | 2642.0 | 2612.2 | 2575.2 | 2571.9 |
| 45°   | 2789.9 | 2794.3 | 2844.0 | 2870.4 | 2862.2 | 2844.0 | 2851.7 | 2864.9 | 2823.5 | 2777.7 | 2782.1 |
| 47.5° | 3036.0 | 3047.1 | 3100.0 | 3124.9 | 3104.5 | 3079.6 | 3094.5 | 3114.4 | 3065.8 | 3009.0 | 3006.2 |
| 50°   | 3309.8 | 3323.6 | 3394.2 | 3429.0 | 3408.6 | 3362.7 | 3387.6 | 3400.8 | 3330.7 | 3257.3 | 3251.3 |
| 52.5° | 3601.7 | 3615.5 | 3704.4 | 3776.1 | 3762.9 | 3691.7 | 3726.4 | 3712.6 | 3632.1 | 3533.3 | 3525.6 |
| 55°   | 3932.3 | 3937.8 | 4033.9 | 4149.8 | 4163.0 | 4110.6 | 4108.4 | 4085.7 | 3966.5 | 3852.3 | 3846.8 |
| 57.5° | 4272.3 | 4276.1 | 4400.3 | 4537.2 | 4599.6 | 4599.6 | 4537.7 | 4489.7 | 4331.3 | 4198.9 | 4185.1 |
| 60°   | 4639.3 | 4653.1 | 4790.5 | 4976.5 | 5122.2 | 5165.3 | 5056.0 | 4925.2 | 4753.0 | 4591.3 | 4575.3 |
| 62.5° | 4966.0 | 4982.0 | 5192.3 | 5469.4 | 5703.4 | 5860.1 | 5593.0 | 5379.9 | 5066.5 | 4807.1 | 4776.7 |
| 65°   | 5007.4 | 5050.5 | 5356.8 | 5858.4 | 6382.2 | 6695.1 | 6183.0 | 5658.1 | 5086.9 | 4726.5 | 4695.6 |
| 67.5° | 4573.1 | 4645.9 | 5059.8 | 5840.8 | 6923.1 | 7594.7 | 6559.9 | 5499.2 | 4720.4 | 4321.9 | 4287.7 |
| 70°   | 3514.0 | 3619.9 | 4097.3 | 5109.0 | 6829.8 | 7884.5 | 6323.7 | 4814.2 | 3935.6 | 3506.8 | 3458.8 |
| 72.5° | 1927.8 | 1971.4 | 2400.8 | 3498.5 | 5475.4 | 6700.1 | 5274.5 | 3559.8 | 2609.9 | 2123.7 | 2043.1 |
| 75°   | 611.5  | 627.0  | 845.5  | 1431.6 | 3097.3 | 4437.8 | 3350.6 | 1747.3 | 962.0  | 709.2  | 700.9  |
| 77.5° | 271.5  | 273.2  | 305.8  | 417.8  | 1066.8 | 2248.5 | 1281.5 | 475.7  | 327.8  | 286.4  | 295.8  |
| 80°   | 171.6  | 171.6  | 189.3  | 207.0  | 290.3  | 652.9  | 346.6  | 226.3  | 193.2  | 179.4  | 183.2  |
| 82.5° | 82.2   | 91.1   | 123.1  | 132.5  | 159.5  | 219.7  | 177.7  | 147.9  | 129.1  | 96.0   | 89.4   |
| 85°   | 54.1   | 45.3   | 77.8   | 87.8   | 92.7   | 105.4  | 103.2  | 97.7   | 84.4   | 48.0   | 53.5   |
| 87.5° | 24.3   | 23.2   | 40.3   | 37.0   | 34.8   | 26.5   | 39.7   | 49.1   | 47.5   | 23.7   | 23.7   |
| 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)