

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: P528975

Luminaire Tested: **GLAN-SA4A-760-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-760-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10857 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

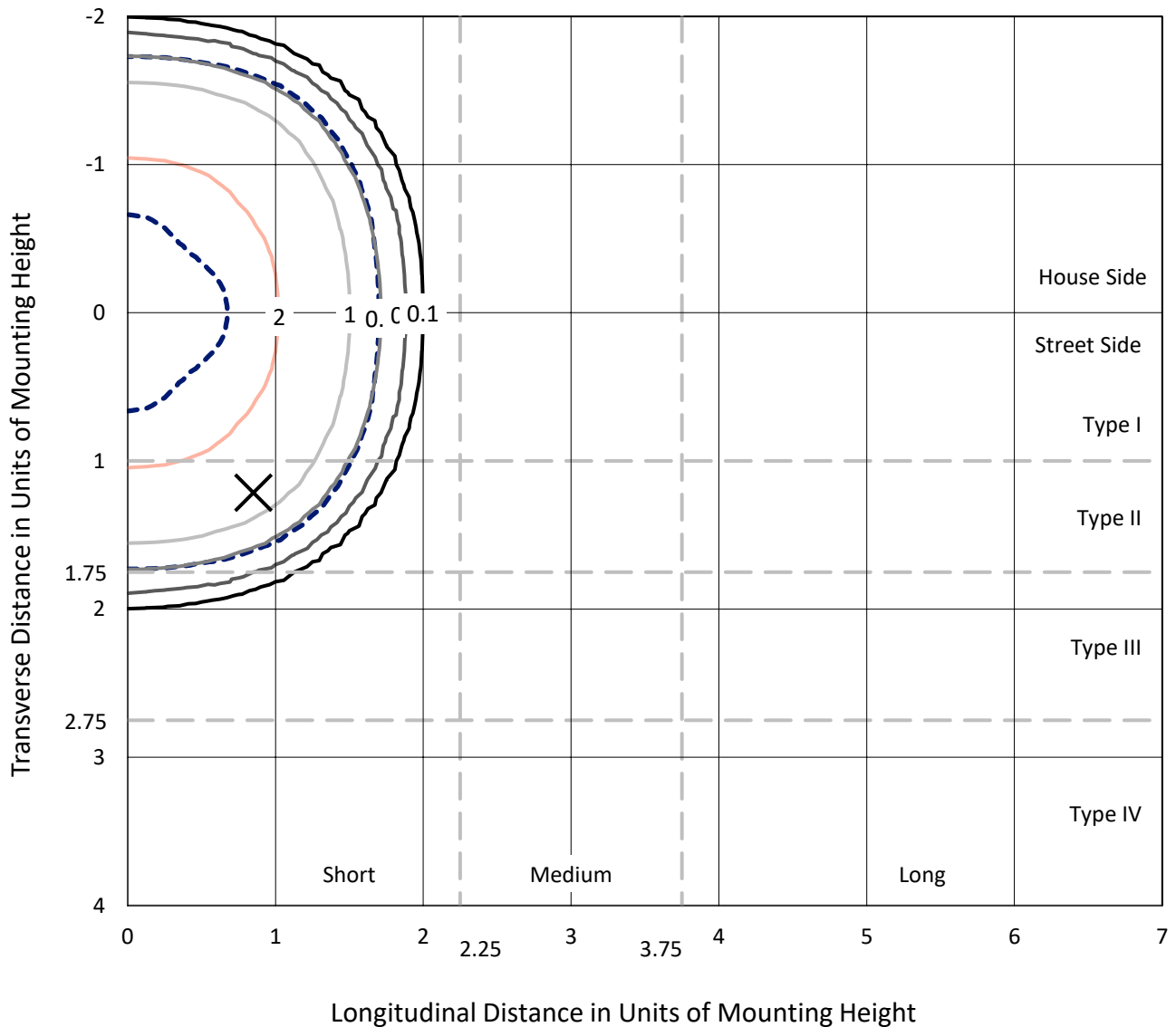
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

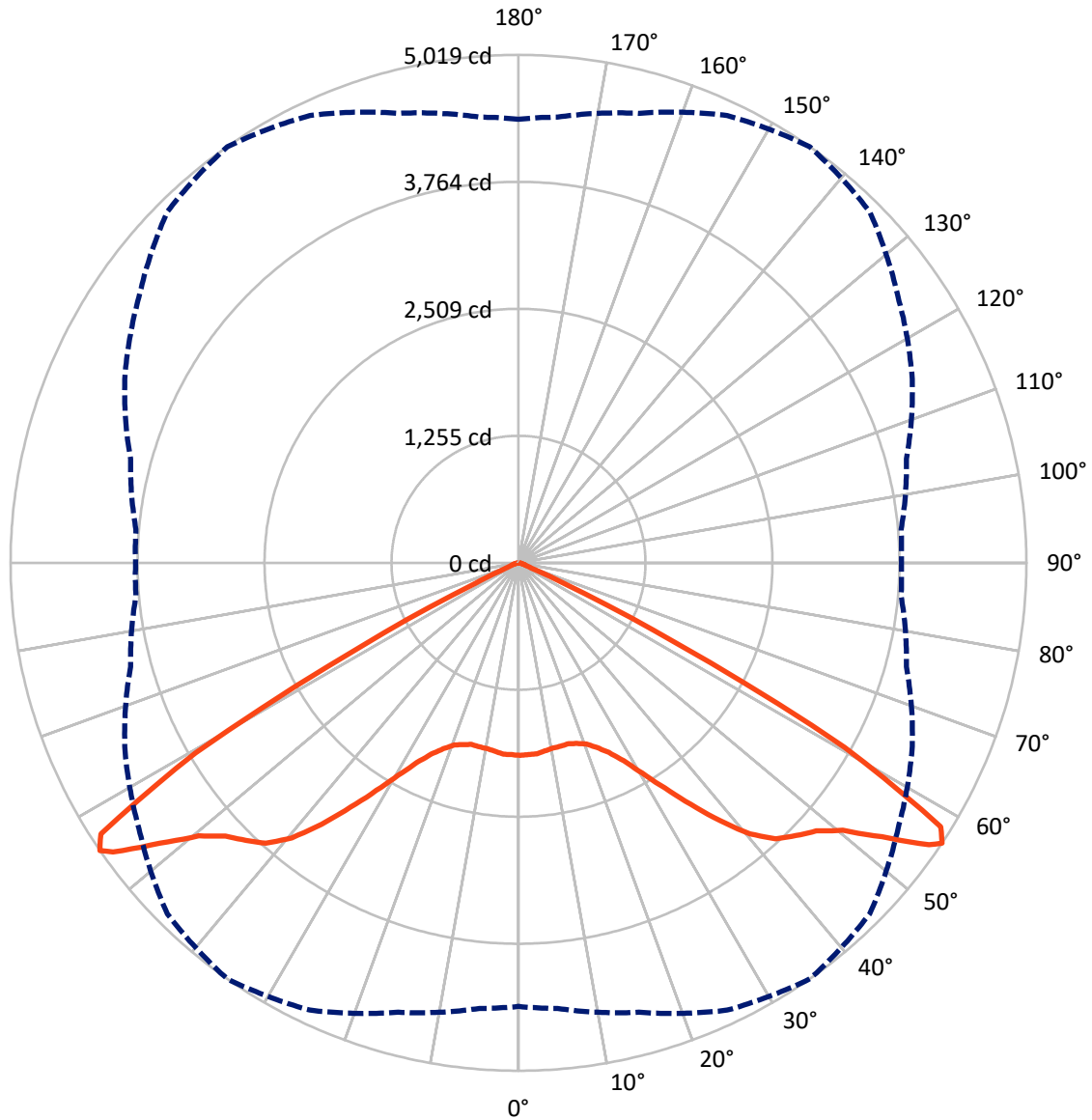
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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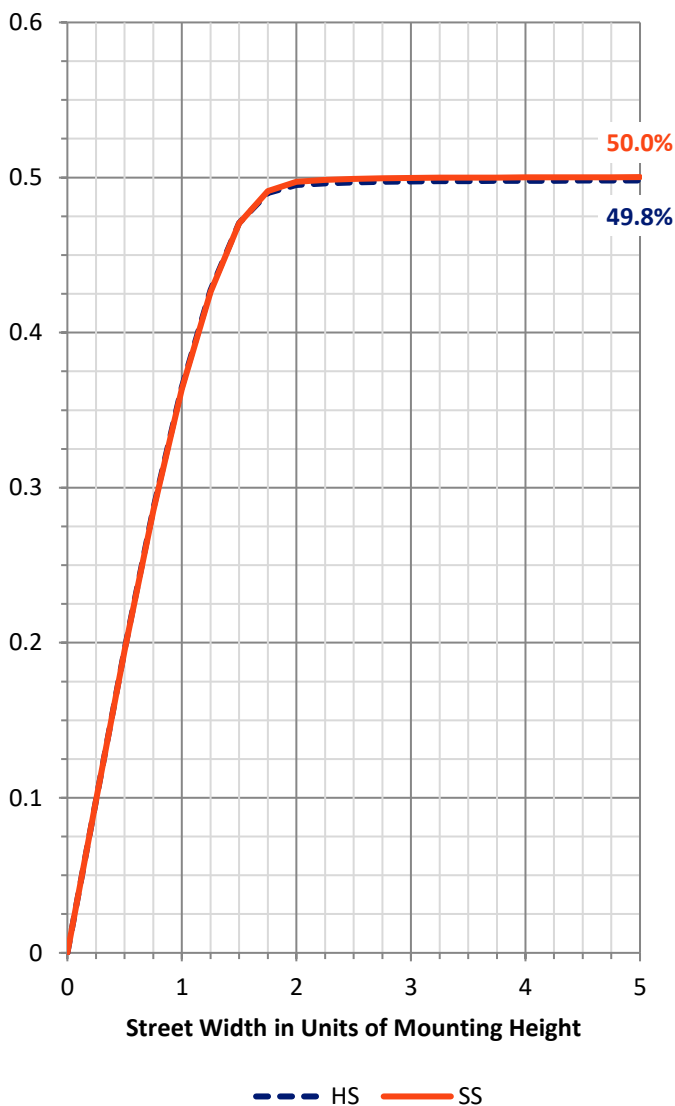
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5428.5   | 0.0    | 5428.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5428.5   | 0.0    | 5428.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10857.0  | 0.0    | 10857.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 178.8   | 1.6       |
| 10°-20°   | 522.0   | 4.8       |
| 20°-30°   | 945.3   | 8.7       |
| 30°-40°   | 1752.8  | 16.1      |
| 40°-50°   | 2877.2  | 26.5      |
| 50°-60°   | 3706.7  | 34.1      |
| 60°-70°   | 816.9   | 7.5       |
| 70°-80°   | 47.4    | 0.4       |
| 80°-90°   | 10.0    | 0.1       |
| 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°    | 10857.0 | 100.0     |
| 0°-180°   | 10857.0 | 100.0     |

**Coefficient of Utilization**



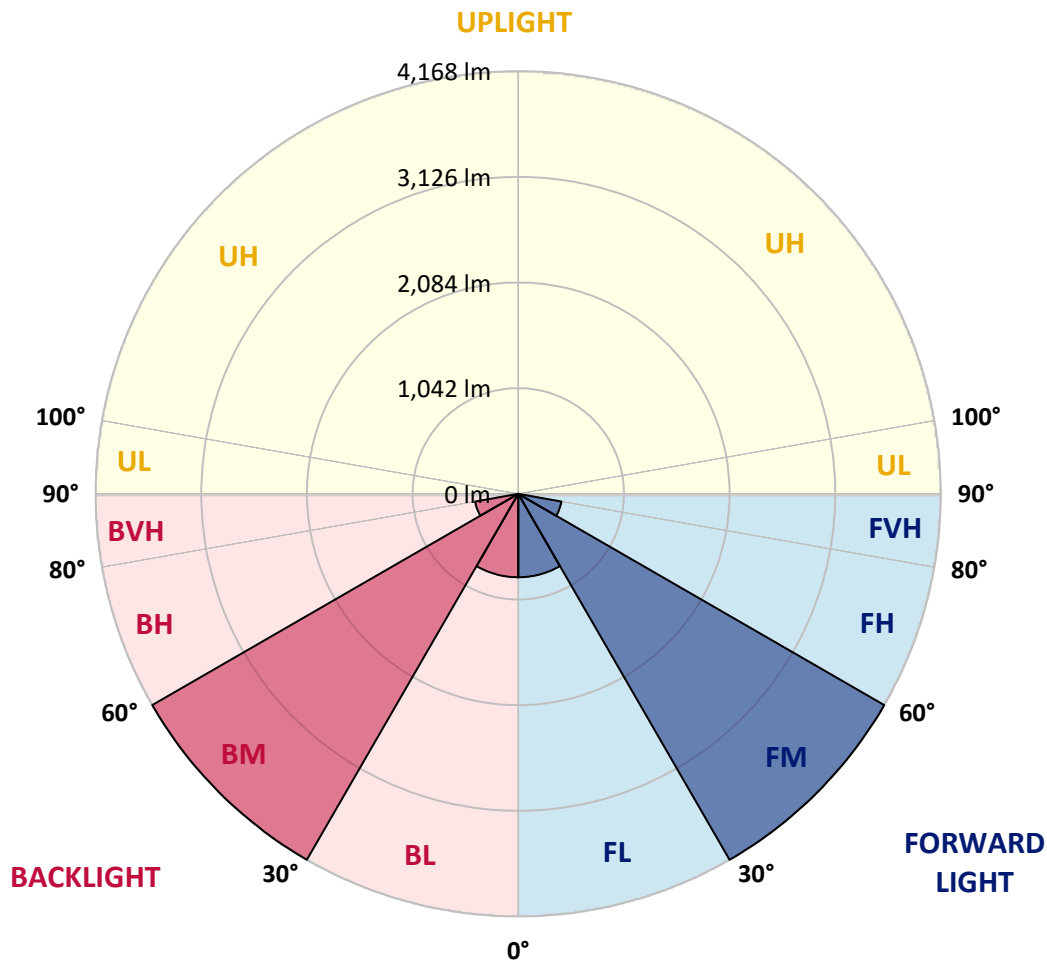
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 823.0  | 7.6       |                         |      |        |
| FM (30°-60°)   | 4168.3 | 38.4      |                         |      |        |
| FH (60°-80°)   | 432.1  | 4.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.0    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 823.0  | 7.6       | B2/1000                 |      |        |
| BM (30°-60°)   | 4168.3 | 38.4      | B3/5000                 |      |        |
| BH (60°-80°)   | 432.1  | 4.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 5.0    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 |
| 2.5°  | 1906.3 | 1906.3 | 1908.3 | 1910.2 | 1896.5 | 1890.6 | 1892.5 | 1888.6 | 1886.6 | 1892.5 | 1892.5 |
| 5°    | 1900.4 | 1900.4 | 1894.5 | 1896.5 | 1896.5 | 1878.8 | 1878.8 | 1882.7 | 1882.7 | 1870.9 | 1867.0 |
| 7.5°  | 1884.7 | 1880.7 | 1872.9 | 1882.7 | 1876.8 | 1876.8 | 1863.0 | 1853.2 | 1849.3 | 1857.1 | 1849.3 |
| 10°   | 1851.2 | 1853.2 | 1861.1 | 1865.0 | 1861.1 | 1872.9 | 1849.3 | 1835.5 | 1821.7 | 1815.8 | 1815.8 |
| 12.5° | 1835.5 | 1847.3 | 1835.5 | 1845.3 | 1859.1 | 1849.3 | 1835.5 | 1825.7 | 1806.0 | 1798.1 | 1798.1 |
| 15°   | 1833.5 | 1841.4 | 1845.3 | 1859.1 | 1853.2 | 1857.1 | 1829.6 | 1817.8 | 1788.3 | 1774.5 | 1768.6 |
| 17.5° | 1831.6 | 1841.4 | 1847.3 | 1872.9 | 1876.8 | 1878.8 | 1857.1 | 1821.7 | 1796.1 | 1782.4 | 1768.6 |
| 20°   | 1853.2 | 1857.1 | 1868.9 | 1894.5 | 1910.2 | 1937.8 | 1898.4 | 1861.1 | 1806.0 | 1790.2 | 1784.3 |
| 22.5° | 1880.7 | 1900.4 | 1912.2 | 1939.8 | 1981.1 | 2004.7 | 1953.5 | 1906.3 | 1849.3 | 1829.6 | 1806.0 |
| 25°   | 1969.3 | 1965.3 | 1985.0 | 2042.1 | 2075.5 | 2093.2 | 2051.9 | 1983.0 | 1908.3 | 1884.7 | 1888.6 |
| 27.5° | 2079.4 | 2083.4 | 2101.1 | 2164.0 | 2213.2 | 2240.8 | 2191.6 | 2101.1 | 2028.3 | 1988.9 | 1985.0 |
| 30°   | 2223.0 | 2219.1 | 2238.8 | 2323.4 | 2411.9 | 2453.2 | 2366.7 | 2260.4 | 2189.6 | 2138.5 | 2150.3 |
| 32.5° | 2374.5 | 2376.5 | 2431.6 | 2508.3 | 2651.9 | 2732.6 | 2592.9 | 2463.1 | 2356.8 | 2321.4 | 2303.7 |
| 35°   | 2598.8 | 2608.6 | 2651.9 | 2770.0 | 2929.3 | 3033.6 | 2880.1 | 2724.7 | 2602.7 | 2537.8 | 2545.7 |
| 37.5° | 2876.2 | 2866.4 | 2939.1 | 3067.0 | 3234.2 | 3311.0 | 3181.1 | 3004.1 | 2880.1 | 2836.8 | 2864.4 |
| 40°   | 3171.3 | 3181.1 | 3218.5 | 3334.6 | 3521.5 | 3572.6 | 3379.8 | 3283.4 | 3175.2 | 3153.6 | 3187.0 |
| 42.5° | 3466.4 | 3460.5 | 3488.0 | 3592.3 | 3728.0 | 3692.6 | 3578.5 | 3521.5 | 3444.7 | 3401.5 | 3446.7 |
| 45°   | 3682.8 | 3673.0 | 3724.1 | 3794.9 | 3844.1 | 3777.2 | 3726.1 | 3706.4 | 3667.0 | 3619.8 | 3661.1 |
| 47.5° | 3893.3 | 3885.4 | 3934.6 | 3954.3 | 3958.2 | 3869.7 | 3879.5 | 3914.9 | 3816.6 | 3718.2 | 3765.4 |
| 50°   | 4072.3 | 4058.5 | 4119.5 | 4162.8 | 4153.0 | 4011.3 | 4046.7 | 4011.3 | 3857.9 | 3741.8 | 3724.1 |
| 52.5° | 4371.3 | 4377.2 | 4442.2 | 4520.9 | 4497.2 | 4379.2 | 4328.1 | 4166.7 | 3970.0 | 3865.7 | 3804.8 |
| 55°   | 4560.2 | 4530.7 | 4642.8 | 4892.7 | 4920.2 | 4798.2 | 4572.0 | 4334.0 | 4038.9 | 3911.0 | 3895.3 |
| 56°   | 4383.1 | 4420.5 | 4597.6 | 4876.9 | 5018.6 | 4906.4 | 4577.9 | 4292.7 | 3968.0 | 3794.9 | 3783.1 |
| 57.5° | 3932.6 | 3913.0 | 4153.0 | 4534.6 | 4920.2 | 4873.0 | 4416.6 | 3997.6 | 3619.8 | 3425.1 | 3401.5 |
| 60°   | 2447.3 | 2504.4 | 2714.9 | 3187.0 | 3702.5 | 3726.1 | 3273.6 | 2913.6 | 2472.9 | 2299.8 | 2341.1 |
| 62.5° | 958.1  | 908.9  | 1040.7 | 1392.8 | 1747.0 | 1825.7 | 1654.5 | 1375.1 | 1129.2 | 958.1  | 946.3  |
| 65°   | 222.3  | 216.4  | 243.9  | 336.4  | 470.2  | 544.9  | 517.4  | 371.8  | 273.5  | 259.7  | 240.0  |
| 67.5° | 125.9  | 125.9  | 120.0  | 120.0  | 131.8  | 139.7  | 133.8  | 131.8  | 137.7  | 143.6  | 141.6  |
| 70°   | 88.5   | 86.6   | 82.6   | 84.6   | 80.7   | 80.7   | 86.6   | 96.4   | 104.3  | 104.3  | 106.2  |
| 72.5° | 53.1   | 53.1   | 53.1   | 59.0   | 59.0   | 59.0   | 64.9   | 72.8   | 74.8   | 72.8   | 70.8   |
| 75°   | 23.6   | 23.6   | 27.5   | 33.4   | 37.4   | 39.3   | 45.2   | 49.2   | 53.1   | 49.2   | 45.2   |
| 77.5° | 5.9    | 5.9    | 9.8    | 13.8   | 17.7   | 21.6   | 29.5   | 35.4   | 37.4   | 35.4   | 29.5   |
| 80°   | 2.0    | 2.0    | 3.9    | 9.8    | 17.7   | 21.6   | 29.5   | 31.5   | 33.4   | 29.5   | 23.6   |
| 82.5° | 2.0    | 2.0    | 3.9    | 9.8    | 13.8   | 17.7   | 23.6   | 27.5   | 29.5   | 25.6   | 23.6   |
| 85°   | 0.0    | 2.0    | 3.9    | 7.9    | 11.8   | 15.7   | 15.7   | 11.8   | 9.8    | 5.9    | 7.9    |
| 87.5° | 0.0    | 0.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)