

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: P316270

Luminaire Tested: **GAN-SA6A-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 21582 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

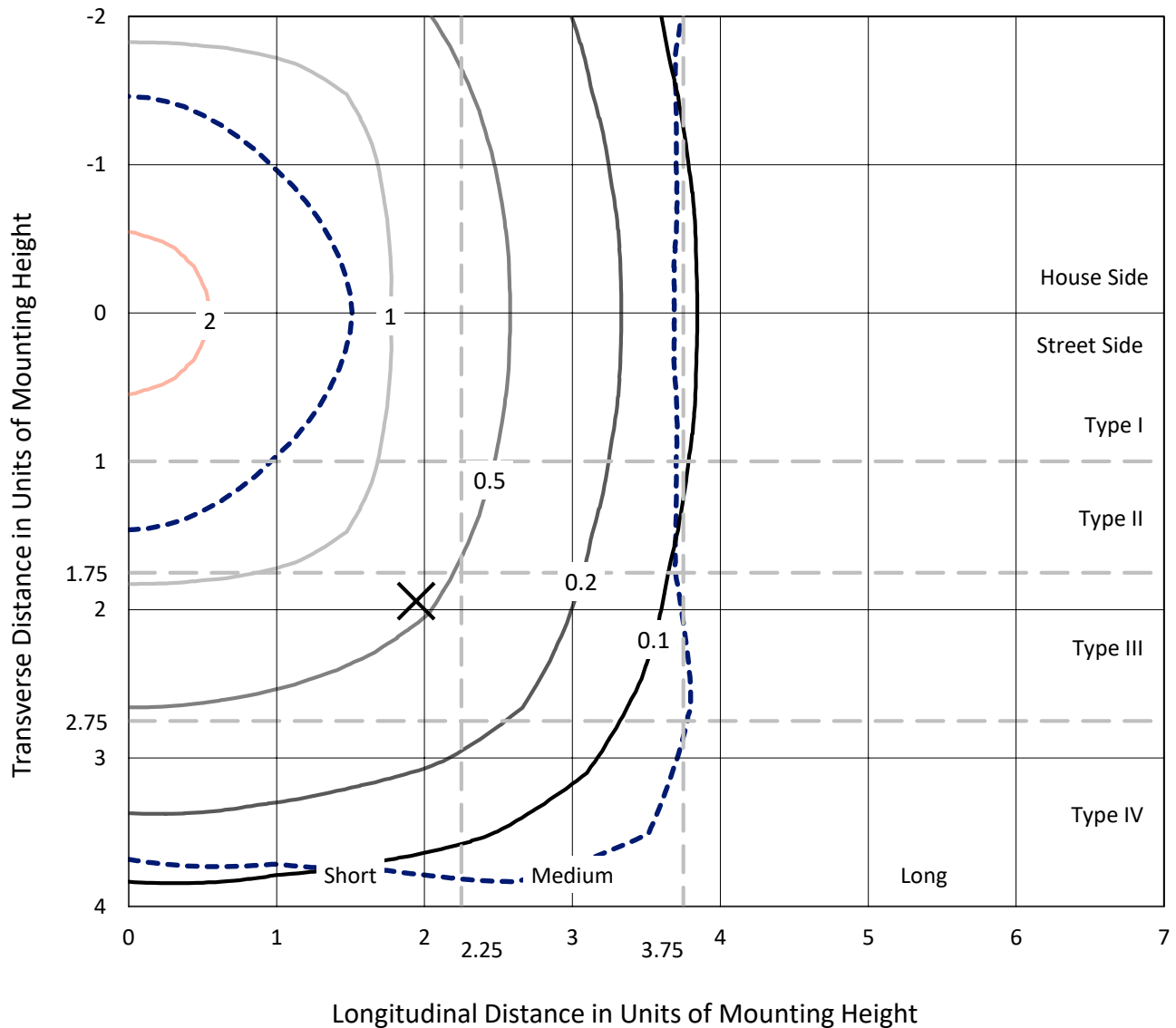
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

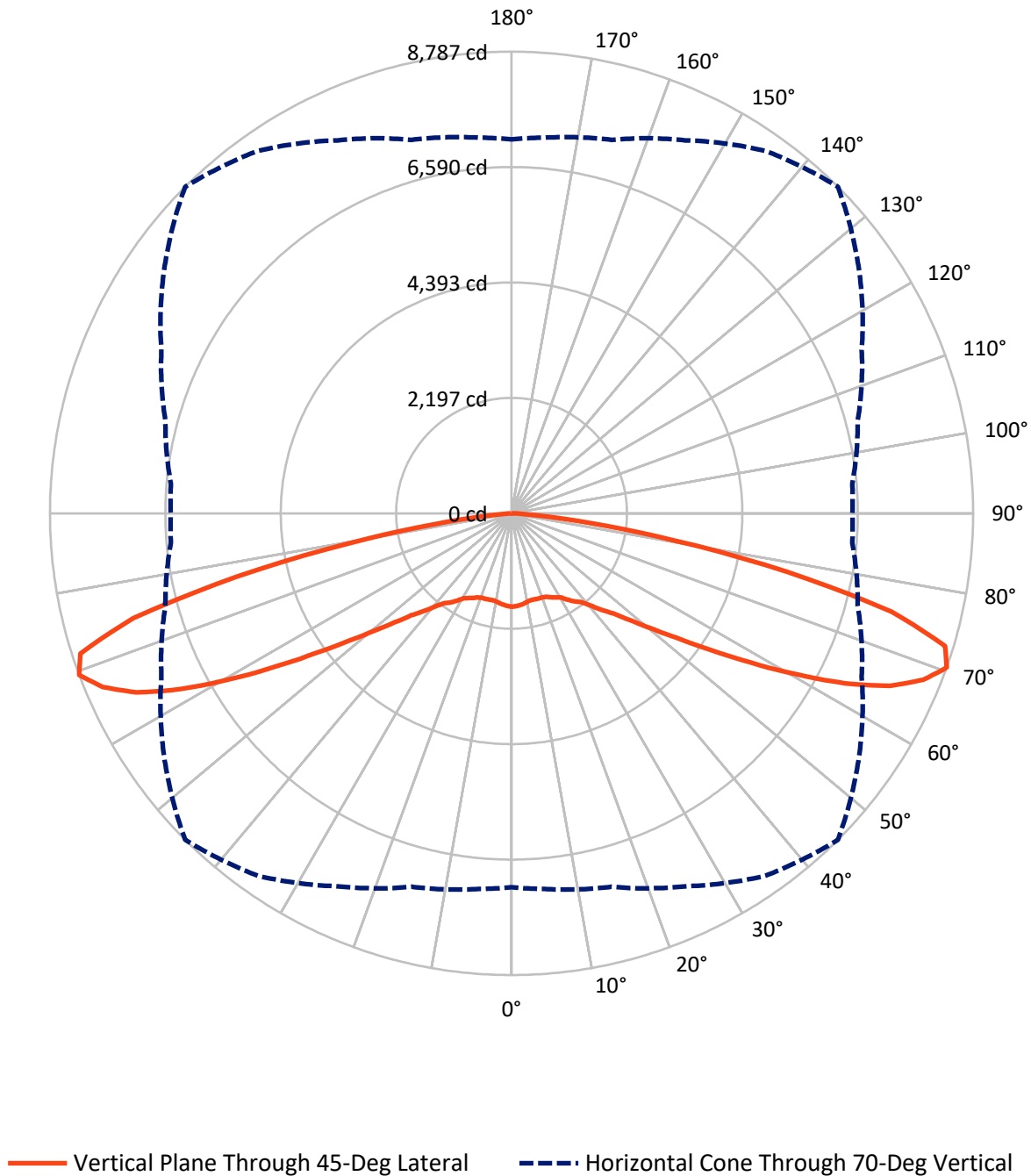
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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    | 10791.0  | 0.0    | 10791.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10791.0  | 0.0    | 10791.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21582.0  | 0.0    | 21582.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 165.8   | 0.8       |
| 10°-20°   | 484.2   | 2.2       |
| 20°-30°   | 825.6   | 3.8       |
| 30°-40°   | 1290.1  | 6.0       |
| 40°-50°   | 2186.4  | 10.1      |
| 50°-60°   | 3987.0  | 18.5      |
| 60°-70°   | 6863.9  | 31.8      |
| 70°-80°   | 5380.2  | 24.9      |
| 80°-90°   | 398.9   | 1.8       |
| 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°    | 21582.0 | 100.0     |
| 0°-180°   | 21582.0 | 100.0     |

**Coefficient of Utilization**



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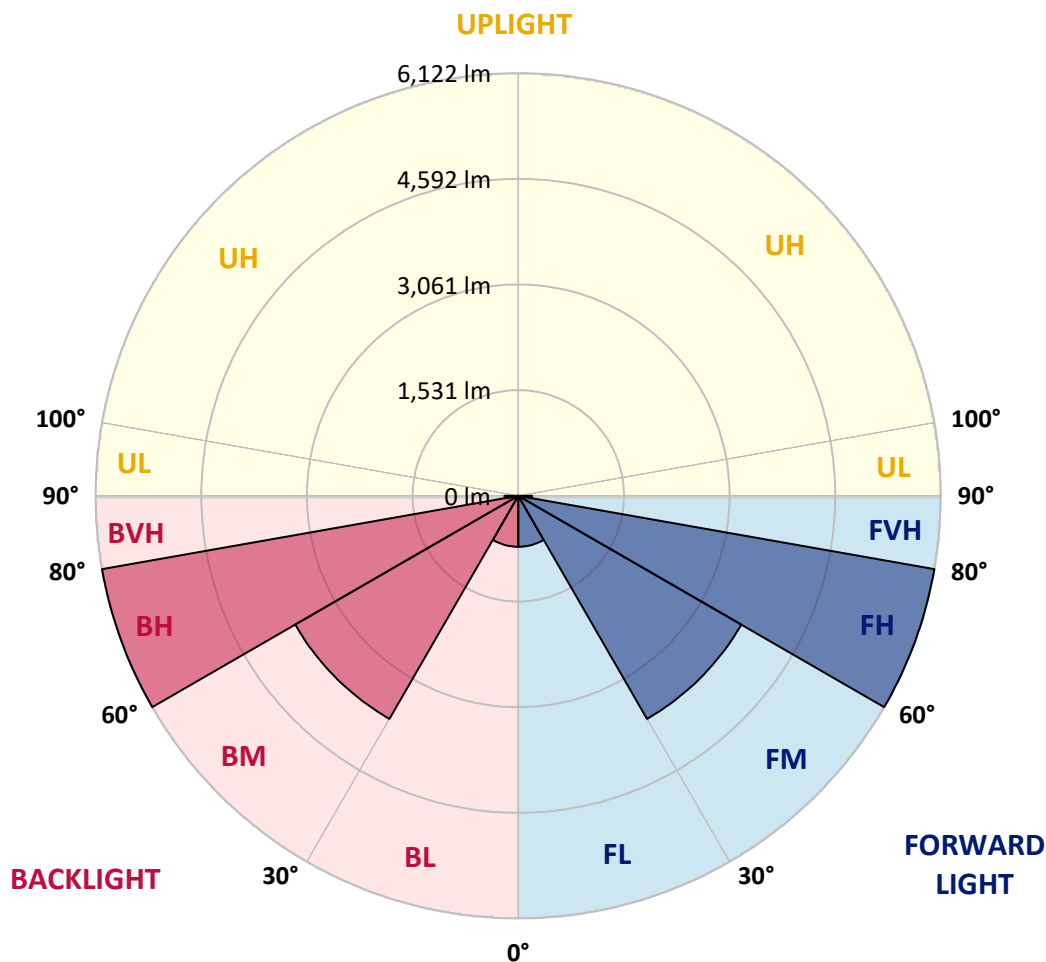
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 737.8  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 3731.7 | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 6122.0 | 28.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 199.5  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 737.8  | 3.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3731.7 | 17.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6122.0 | 28.4      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 199.5  | 0.9       |                         |      | 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°    | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 | 1776.2 |
| 2.5°  | 1768.3 | 1770.5 | 1768.3 | 1769.8 | 1766.2 | 1767.6 | 1767.6 | 1767.6 | 1766.9 | 1767.6 | 1766.2 |
| 5°    | 1752.6 | 1754.1 | 1751.2 | 1752.6 | 1750.5 | 1752.6 | 1753.4 | 1752.6 | 1751.2 | 1751.9 | 1749.1 |
| 7.5°  | 1729.1 | 1730.5 | 1728.4 | 1730.5 | 1727.7 | 1731.2 | 1730.5 | 1728.4 | 1726.2 | 1726.2 | 1723.4 |
| 10°   | 1716.2 | 1716.9 | 1711.2 | 1709.1 | 1702.7 | 1704.1 | 1706.2 | 1708.4 | 1710.5 | 1714.8 | 1714.1 |
| 12.5° | 1716.9 | 1716.9 | 1708.4 | 1699.1 | 1689.8 | 1692.0 | 1695.5 | 1703.4 | 1711.9 | 1719.8 | 1720.5 |
| 15°   | 1724.1 | 1723.4 | 1710.5 | 1695.5 | 1689.1 | 1695.5 | 1697.7 | 1702.7 | 1716.2 | 1729.8 | 1730.5 |
| 17.5° | 1729.1 | 1729.1 | 1709.1 | 1692.0 | 1691.2 | 1701.2 | 1700.5 | 1702.7 | 1717.7 | 1737.7 | 1738.4 |
| 20°   | 1738.4 | 1738.4 | 1712.7 | 1694.1 | 1694.1 | 1704.8 | 1705.5 | 1709.1 | 1724.1 | 1746.2 | 1749.8 |
| 22.5° | 1759.1 | 1759.8 | 1732.7 | 1717.7 | 1719.1 | 1725.5 | 1727.7 | 1733.4 | 1746.9 | 1771.2 | 1775.5 |
| 25°   | 1788.3 | 1789.8 | 1761.9 | 1753.4 | 1758.4 | 1770.5 | 1769.1 | 1773.3 | 1788.3 | 1811.9 | 1816.2 |
| 27.5° | 1829.0 | 1825.5 | 1799.8 | 1796.2 | 1801.2 | 1809.8 | 1809.0 | 1809.8 | 1821.9 | 1843.3 | 1848.3 |
| 30°   | 1881.9 | 1880.4 | 1861.9 | 1864.0 | 1861.9 | 1859.0 | 1859.7 | 1865.4 | 1871.9 | 1889.0 | 1894.0 |
| 32.5° | 1933.3 | 1934.7 | 1923.3 | 1934.0 | 1949.7 | 1960.4 | 1944.0 | 1928.3 | 1921.1 | 1930.4 | 1934.7 |
| 35°   | 2026.1 | 2029.6 | 2011.8 | 2004.7 | 2026.1 | 2057.5 | 2011.1 | 1985.4 | 1999.7 | 2011.8 | 2015.4 |
| 37.5° | 2183.8 | 2186.0 | 2156.0 | 2127.4 | 2111.7 | 2141.7 | 2095.3 | 2097.5 | 2147.4 | 2170.3 | 2169.6 |
| 40°   | 2363.7 | 2364.5 | 2344.5 | 2319.5 | 2292.4 | 2299.5 | 2280.9 | 2286.6 | 2319.5 | 2340.2 | 2345.9 |
| 42.5° | 2577.9 | 2575.8 | 2544.4 | 2508.7 | 2500.8 | 2508.0 | 2476.5 | 2472.3 | 2510.1 | 2547.2 | 2547.9 |
| 45°   | 2855.6 | 2850.6 | 2809.9 | 2770.7 | 2732.8 | 2717.1 | 2709.3 | 2730.0 | 2782.1 | 2816.4 | 2817.1 |
| 47.5° | 3154.8 | 3141.2 | 3119.8 | 3088.4 | 3055.5 | 3039.8 | 3027.0 | 3037.0 | 3074.8 | 3088.4 | 3089.8 |
| 50°   | 3462.5 | 3465.3 | 3469.6 | 3457.5 | 3445.3 | 3440.3 | 3406.8 | 3387.5 | 3398.9 | 3373.9 | 3370.4 |
| 52.5° | 3827.3 | 3833.0 | 3874.4 | 3909.4 | 3930.1 | 3940.8 | 3877.2 | 3810.8 | 3773.7 | 3725.2 | 3710.9 |
| 55°   | 4257.7 | 4267.0 | 4327.7 | 4424.8 | 4524.7 | 4577.6 | 4462.6 | 4338.4 | 4223.5 | 4132.8 | 4103.5 |
| 57.5° | 4737.5 | 4753.9 | 4837.4 | 5023.8 | 5228.7 | 5353.6 | 5159.4 | 4933.8 | 4711.8 | 4581.1 | 4558.3 |
| 60°   | 5300.0 | 5315.8 | 5431.4 | 5698.4 | 6030.4 | 6218.1 | 5924.0 | 5554.9 | 5278.6 | 5153.7 | 5111.6 |
| 62.5° | 5969.7 | 5971.1 | 6113.2 | 6425.2 | 6863.5 | 7124.8 | 6726.4 | 6233.1 | 5948.3 | 5797.6 | 5756.9 |
| 65°   | 6690.0 | 6693.6 | 6840.7 | 7177.6 | 7631.0 | 7915.1 | 7465.3 | 6951.3 | 6602.9 | 6380.9 | 6349.5 |
| 67.5° | 7199.0 | 7214.0 | 7369.0 | 7774.5 | 8198.5 | 8454.8 | 7989.3 | 7408.2 | 7005.6 | 6740.7 | 6714.3 |
| 70°   | 7117.7 | 7176.2 | 7358.2 | 7831.6 | 8421.3 | 8786.8 | 8074.3 | 7354.0 | 6822.8 | 6510.1 | 6488.0 |
| 72.5° | 6207.4 | 6319.5 | 6562.2 | 7183.3 | 8126.4 | 8629.7 | 7611.0 | 6586.5 | 5985.4 | 5719.1 | 5679.1 |
| 75°   | 4227.0 | 4409.1 | 4775.3 | 5671.3 | 6942.7 | 7471.8 | 6407.3 | 5251.5 | 4686.1 | 4317.7 | 4290.6 |
| 77.5° | 1884.7 | 1926.1 | 2390.2 | 3421.8 | 4791.0 | 5365.7 | 4655.4 | 3435.3 | 2578.6 | 2056.8 | 1946.8 |
| 80°   | 525.4  | 531.9  | 709.6  | 1274.3 | 2398.0 | 3152.6 | 2574.4 | 1338.6 | 752.5  | 530.4  | 499.7  |
| 82.5° | 167.1  | 181.3  | 221.3  | 330.5  | 806.0  | 1438.5 | 827.4  | 357.0  | 254.2  | 202.7  | 182.8  |
| 85°   | 81.4   | 80.7   | 112.1  | 134.2  | 205.6  | 318.4  | 219.2  | 165.6  | 144.9  | 96.4   | 87.1   |
| 87.5° | 34.3   | 35.0   | 52.1   | 47.1   | 60.0   | 51.4   | 70.7   | 74.2   | 77.8   | 42.8   | 37.1   |
| 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)