

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: P316069

Luminaire Tested: **GAN-SA5A-727-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316069  
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-SA5A-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 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: 20516 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

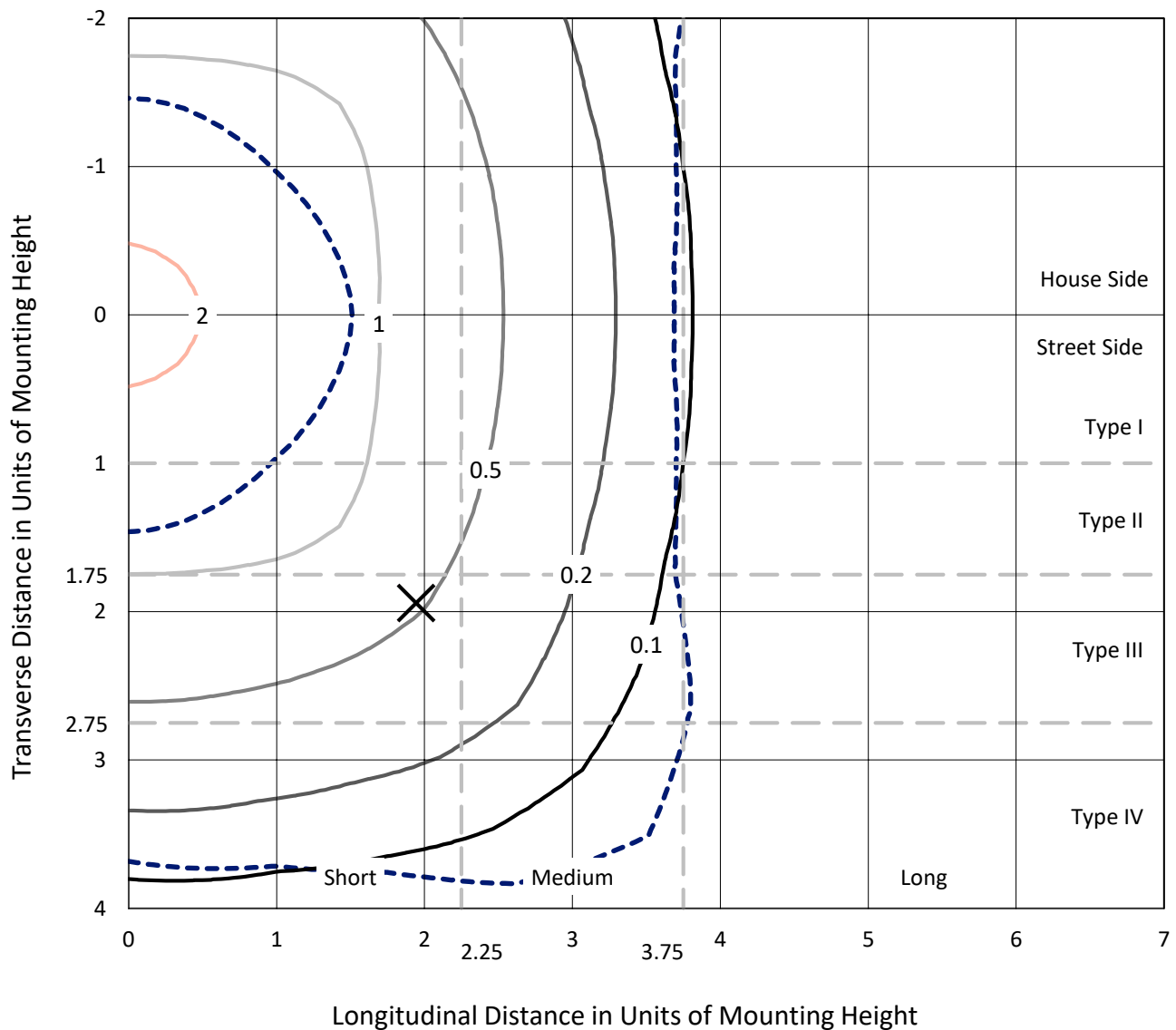
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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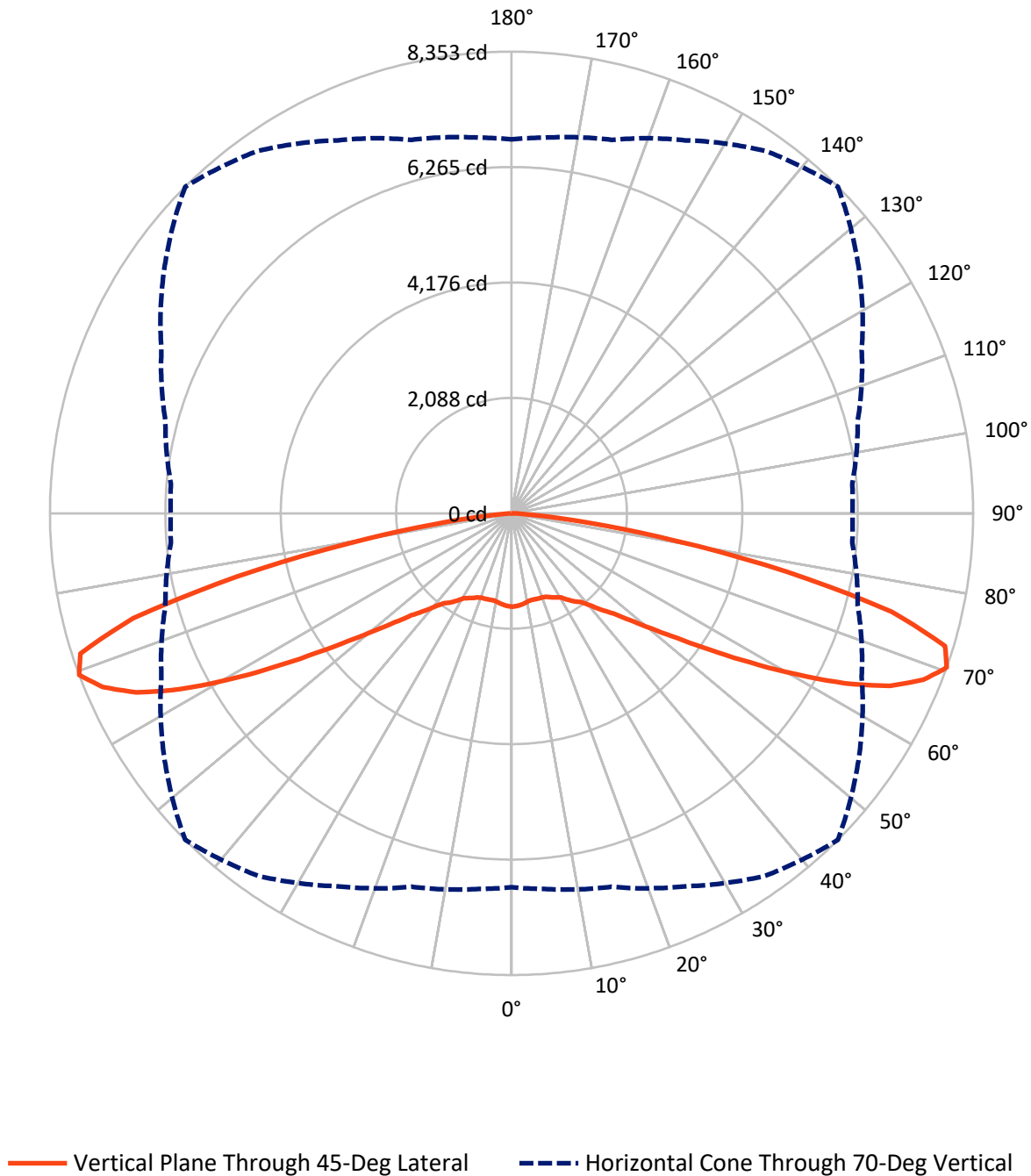
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



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## Luminous Intensity Polar Plot



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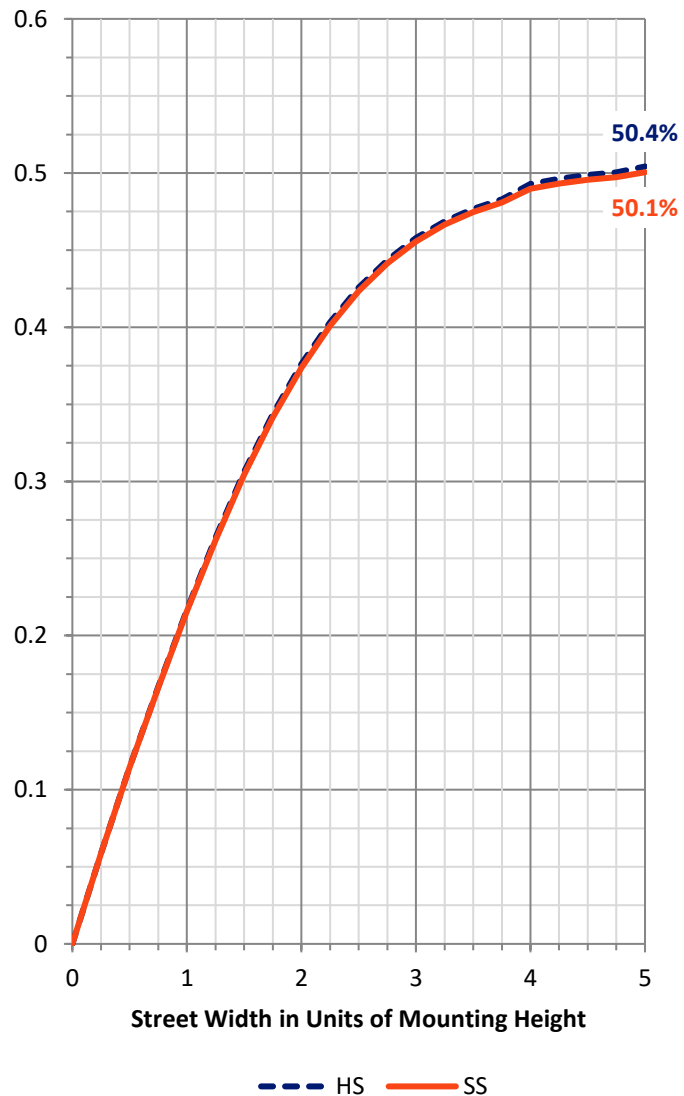
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10258.0  | 0.0    | 10258.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10258.0  | 0.0    | 10258.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 20516.0  | 0.0    | 20516.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 157.6   | 0.8       |
| 10°-20°   | 460.3   | 2.2       |
| 20°-30°   | 784.8   | 3.8       |
| 30°-40°   | 1226.3  | 6.0       |
| 40°-50°   | 2078.4  | 10.1      |
| 50°-60°   | 3790.1  | 18.5      |
| 60°-70°   | 6524.8  | 31.8      |
| 70°-80°   | 5114.4  | 24.9      |
| 80°-90°   | 379.2   | 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°    | 20516.0 | 100.0     |
| 0°-180°   | 20516.0 | 100.0     |

**Coefficient of Utilization**



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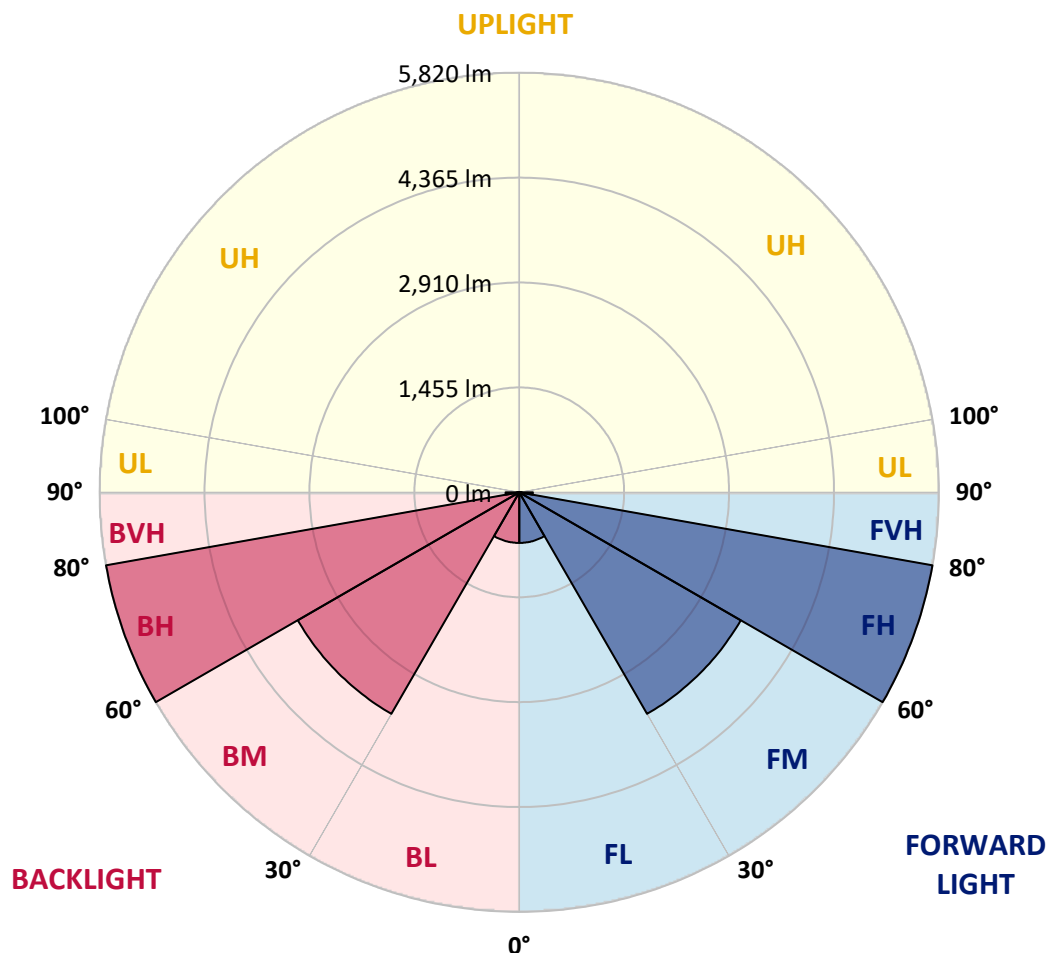
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 701.4  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 3547.4 | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 5819.6 | 28.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 189.6  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 701.4  | 3.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3547.4 | 17.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 5819.6 | 28.4      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 189.6  | 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°    | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 |
| 2.5°  | 1681.0 | 1683.0 | 1681.0 | 1682.4 | 1679.0 | 1680.3 | 1680.3 | 1680.3 | 1679.6 | 1680.3 | 1679.0 |
| 5°    | 1666.1 | 1667.4 | 1664.7 | 1666.1 | 1664.0 | 1666.1 | 1666.8 | 1666.1 | 1664.7 | 1665.4 | 1662.7 |
| 7.5°  | 1643.7 | 1645.0 | 1643.0 | 1645.0 | 1642.3 | 1645.7 | 1645.0 | 1643.0 | 1641.0 | 1641.0 | 1638.2 |
| 10°   | 1631.5 | 1632.1 | 1626.7 | 1624.7 | 1618.6 | 1619.9 | 1622.0 | 1624.0 | 1626.0 | 1630.1 | 1629.4 |
| 12.5° | 1632.1 | 1632.1 | 1624.0 | 1615.2 | 1606.4 | 1608.4 | 1611.8 | 1619.2 | 1627.4 | 1634.9 | 1635.5 |
| 15°   | 1638.9 | 1638.2 | 1626.0 | 1611.8 | 1605.7 | 1611.8 | 1613.8 | 1618.6 | 1631.5 | 1644.4 | 1645.0 |
| 17.5° | 1643.7 | 1643.7 | 1624.7 | 1608.4 | 1607.7 | 1617.2 | 1616.5 | 1618.6 | 1632.8 | 1651.8 | 1652.5 |
| 20°   | 1652.5 | 1652.5 | 1628.1 | 1610.4 | 1610.4 | 1620.6 | 1621.3 | 1624.7 | 1638.9 | 1660.0 | 1663.4 |
| 22.5° | 1672.2 | 1672.9 | 1647.1 | 1632.8 | 1634.2 | 1640.3 | 1642.3 | 1647.8 | 1660.6 | 1683.7 | 1687.8 |
| 25°   | 1700.0 | 1701.4 | 1674.9 | 1666.8 | 1671.5 | 1683.0 | 1681.7 | 1685.8 | 1700.0 | 1722.4 | 1726.5 |
| 27.5° | 1738.7 | 1735.3 | 1710.9 | 1707.5 | 1712.2 | 1720.4 | 1719.7 | 1720.4 | 1731.9 | 1752.3 | 1757.0 |
| 30°   | 1788.9 | 1787.6 | 1769.9 | 1771.9 | 1769.9 | 1767.2 | 1767.9 | 1773.3 | 1779.4 | 1795.7 | 1800.4 |
| 32.5° | 1837.8 | 1839.1 | 1828.3 | 1838.5 | 1853.4 | 1863.6 | 1848.0 | 1833.0 | 1826.2 | 1835.1 | 1839.1 |
| 35°   | 1926.0 | 1929.4 | 1912.4 | 1905.6 | 1926.0 | 1955.9 | 1911.7 | 1887.3 | 1900.9 | 1912.4 | 1915.8 |
| 37.5° | 2076.0 | 2078.0 | 2049.5 | 2022.4 | 2007.4 | 2035.9 | 1991.8 | 1993.9 | 2041.4 | 2063.1 | 2062.4 |
| 40°   | 2247.0 | 2247.7 | 2228.7 | 2204.9 | 2179.1 | 2185.9 | 2168.3 | 2173.7 | 2204.9 | 2224.6 | 2230.0 |
| 42.5° | 2450.6 | 2448.6 | 2418.7 | 2384.8 | 2377.3 | 2384.1 | 2354.2 | 2350.1 | 2386.1 | 2421.4 | 2422.1 |
| 45°   | 2714.6 | 2709.8 | 2671.1 | 2633.8 | 2597.9 | 2582.9 | 2575.5 | 2595.1 | 2644.7 | 2677.3 | 2677.9 |
| 47.5° | 2998.9 | 2986.0 | 2965.7 | 2935.8 | 2904.6 | 2889.7 | 2877.5 | 2887.0 | 2922.9 | 2935.8 | 2937.2 |
| 50°   | 3291.4 | 3294.1 | 3298.2 | 3286.7 | 3275.1 | 3270.4 | 3238.5 | 3220.2 | 3231.0 | 3207.3 | 3203.9 |
| 52.5° | 3638.2 | 3643.6 | 3683.0 | 3716.3 | 3735.9 | 3746.1 | 3685.7 | 3622.6 | 3587.3 | 3541.2 | 3527.6 |
| 55°   | 4047.4 | 4056.3 | 4113.9 | 4206.2 | 4301.3 | 4351.5 | 4242.2 | 4124.1 | 4014.9 | 3928.7 | 3900.9 |
| 57.5° | 4503.5 | 4519.1 | 4598.5 | 4775.6 | 4970.4 | 5089.2 | 4904.6 | 4690.1 | 4479.1 | 4354.9 | 4333.2 |
| 60°   | 5038.3 | 5053.2 | 5163.1 | 5416.9 | 5732.5 | 5911.0 | 5631.4 | 5280.5 | 5017.9 | 4899.1 | 4859.1 |
| 62.5° | 5674.8 | 5676.2 | 5811.2 | 6107.8 | 6524.5 | 6772.9 | 6394.2 | 5925.3 | 5654.5 | 5511.3 | 5472.6 |
| 65°   | 6359.6 | 6363.0 | 6502.8 | 6823.1 | 7254.0 | 7524.1 | 7096.6 | 6608.0 | 6276.8 | 6065.7 | 6035.9 |
| 67.5° | 6843.5 | 6857.7 | 7005.0 | 7390.4 | 7793.6 | 8037.2 | 7594.7 | 7042.3 | 6659.5 | 6407.8 | 6382.7 |
| 70°   | 6766.1 | 6821.7 | 6994.8 | 7444.7 | 8005.3 | 8352.8 | 7675.5 | 6990.7 | 6485.8 | 6188.6 | 6167.5 |
| 72.5° | 5900.8 | 6007.4 | 6238.1 | 6828.5 | 7725.0 | 8203.5 | 7235.0 | 6261.2 | 5689.8 | 5436.6 | 5398.6 |
| 75°   | 4018.3 | 4191.3 | 4539.5 | 5391.2 | 6599.8 | 7102.7 | 6090.8 | 4992.1 | 4454.6 | 4104.4 | 4078.7 |
| 77.5° | 1791.6 | 1831.0 | 2272.1 | 3252.7 | 4554.4 | 5100.7 | 4425.4 | 3265.6 | 2451.3 | 1955.2 | 1850.7 |
| 80°   | 499.5  | 505.6  | 674.6  | 1211.4 | 2279.6 | 2996.9 | 2447.2 | 1272.5 | 715.3  | 504.2  | 475.1  |
| 82.5° | 158.8  | 172.4  | 210.4  | 314.2  | 766.2  | 1367.5 | 786.5  | 339.3  | 241.6  | 192.7  | 173.7  |
| 85°   | 77.4   | 76.7   | 106.5  | 127.6  | 195.4  | 302.7  | 208.3  | 157.4  | 137.8  | 91.6   | 82.8   |
| 87.5° | 32.6   | 33.3   | 49.5   | 44.8   | 57.0   | 48.9   | 67.2   | 70.6   | 74.0   | 40.7   | 35.3   |
| 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)