

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: P321074

Luminaire Tested: **GAN-SA0A-827-U-AFL**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P321074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-827-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 34787 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 323  
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

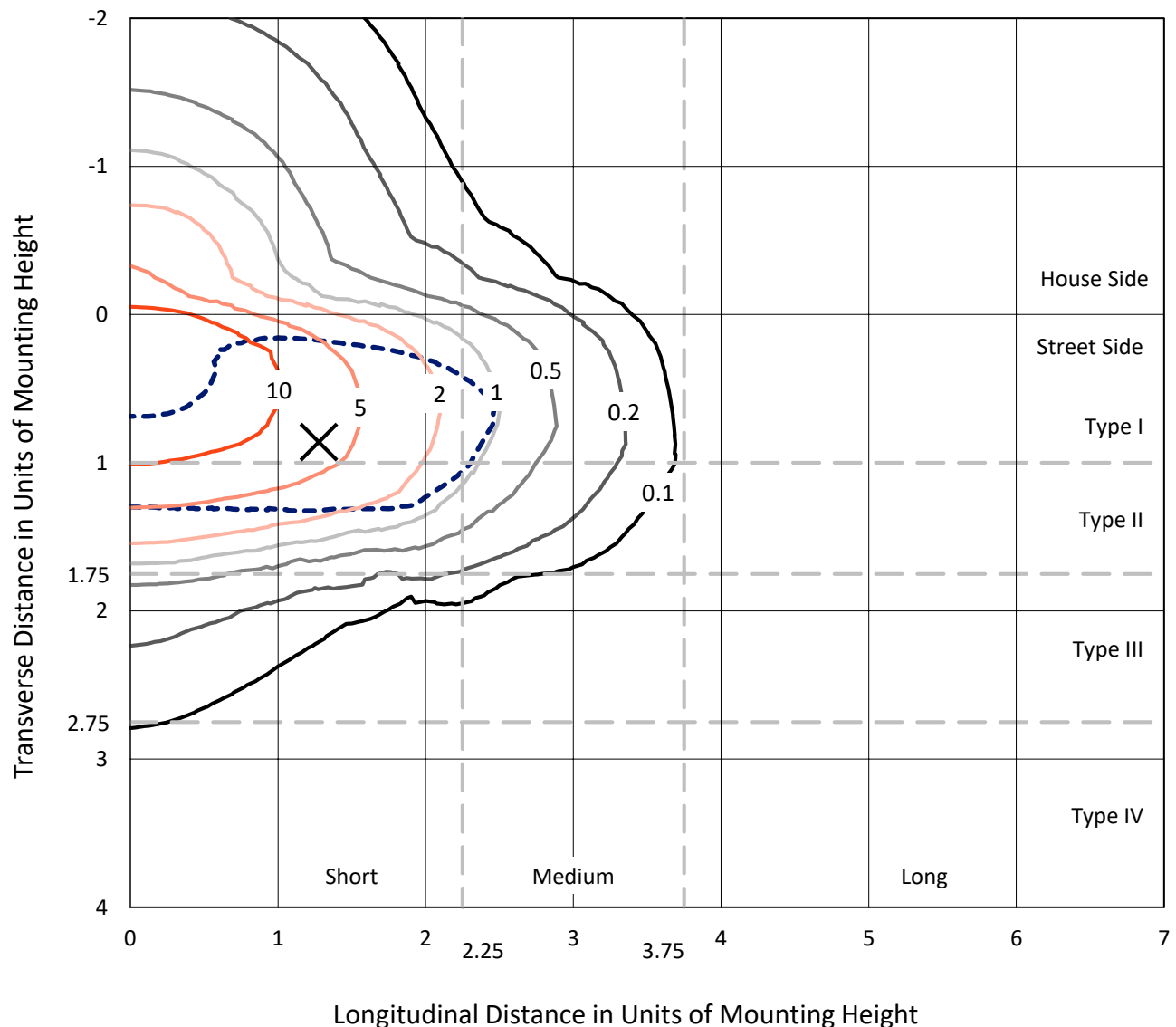


REPORT NUMBER: P321074

CATALOG NUMBER: GAN-SA0A-827-U-AFL

## Iso-Footcandle Lines of Horizontal Illumination

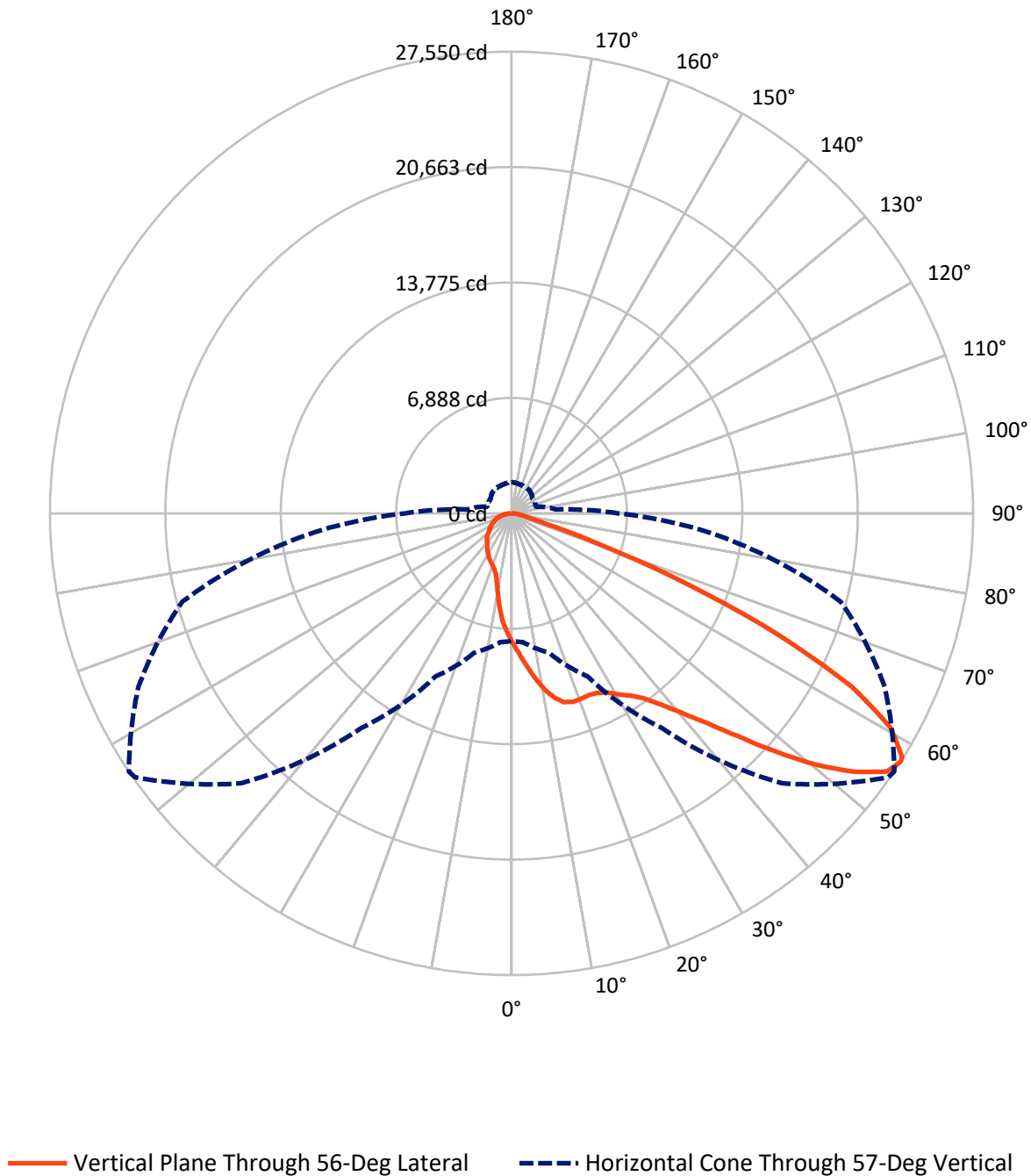
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P321074  
CATALOG NUMBER: GAN-SA0A-827-U-AFL

## Luminous Intensity Polar Plot



REPORT NUMBER: P321074

CATALOG NUMBER: GAN-SA0A-827-U-AFL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5996.5   | 0.0    | 5996.5  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 28790.5  | 0.0    | 28790.5 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 34787.0  | 0.0    | 34787.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 737.1   | 2.1       |
| 10°-20°   | 2083.8  | 6.0       |
| 20°-30°   | 3394.1  | 9.8       |
| 30°-40°   | 5073.9  | 14.6      |
| 40°-50°   | 7696.0  | 22.1      |
| 50°-60°   | 8625.8  | 24.8      |
| 60°-70°   | 5094.7  | 14.6      |
| 70°-80°   | 1669.2  | 4.8       |
| 80°-90°   | 412.4   | 1.2       |
| 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°    | 34787.0 | 100.0     |
| 0°-180°   | 34787.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P321074

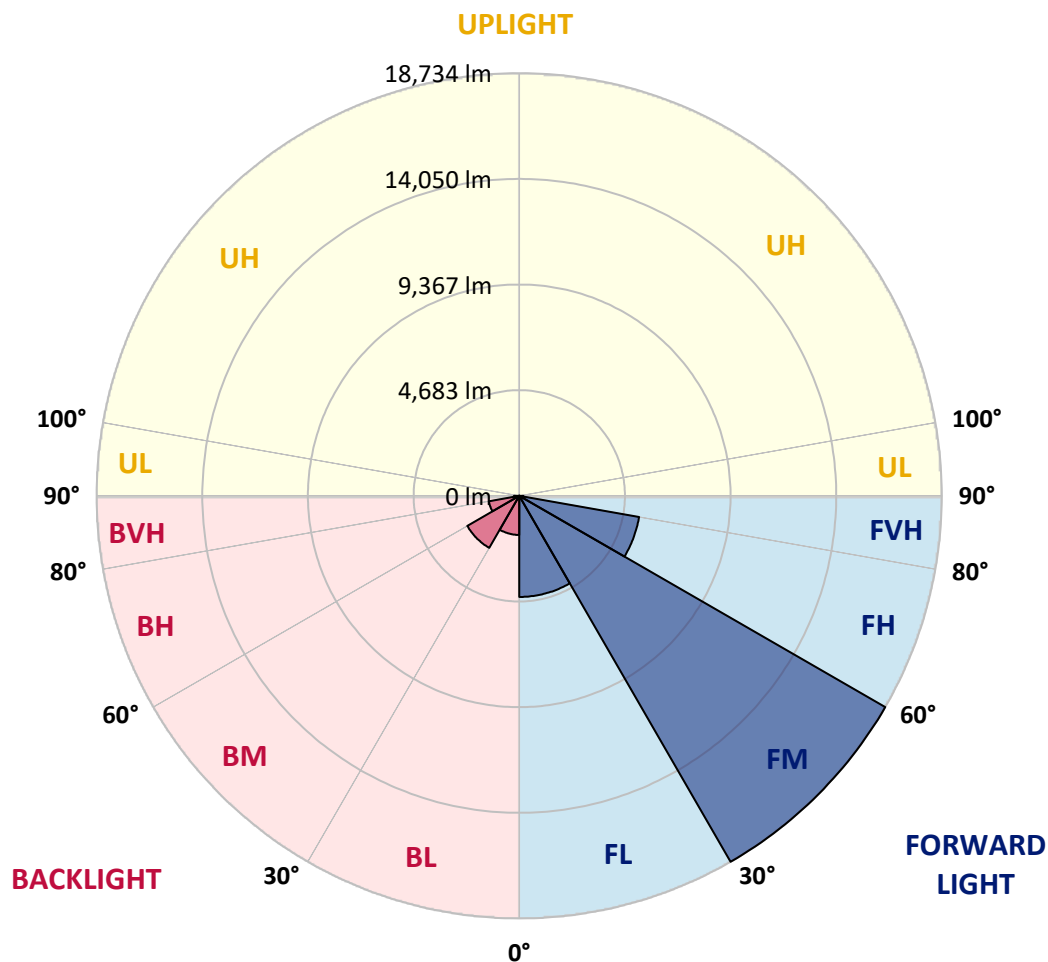
CATALOG NUMBER: GAN-SA0A-827-U-AFL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4481.1  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 18734.0 | 53.9      |                         |      |         |
| FH   | (60°-80°)   | 5393.8  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 181.6   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1733.9  | 5.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2661.7  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1370.1  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 230.8   | 0.7       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P321074

CATALOG NUMBER: GAN-SA0A-827-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  | 7715.8  |
| 2.5°  | 8859.9  | 8941.2  | 8905.3  | 8781.0  | 8685.3  | 8550.3  | 8399.6  | 8354.2  | 8195.2  | 8017.1  | 7803.1  |
| 5°    | 10262.2 | 10221.6 | 10163.0 | 9969.3  | 9764.9  | 9527.0  | 9149.2  | 9089.4  | 8735.6  | 8332.7  | 7907.1  |
| 7.5°  | 11060.8 | 11057.2 | 11022.6 | 10909.0 | 10722.5 | 10411.7 | 9956.2  | 9885.6  | 9351.2  | 8703.3  | 8043.4  |
| 10°   | 10944.8 | 10936.5 | 10993.9 | 11112.2 | 11168.4 | 11103.8 | 10720.1 | 10649.6 | 9993.2  | 9113.3  | 8201.2  |
| 12.5° | 10286.1 | 10290.9 | 10383.0 | 10631.6 | 10970.0 | 11376.4 | 11314.3 | 11279.6 | 10659.1 | 9577.2  | 8392.4  |
| 15°   | 9773.3  | 9784.0  | 9856.9  | 10073.3 | 10472.6 | 11210.2 | 11675.3 | 11687.3 | 11303.5 | 10088.9 | 8616.0  |
| 17.5° | 9548.5  | 9571.2  | 9604.7  | 9756.5  | 10122.3 | 10879.1 | 11761.4 | 11825.9 | 11867.8 | 10619.7 | 8831.2  |
| 20°   | 9620.2  | 9641.7  | 9651.3  | 9748.1  | 10048.2 | 10678.2 | 11701.6 | 11817.6 | 12300.5 | 11119.4 | 9046.4  |
| 22.5° | 9941.8  | 9955.0  | 9960.9  | 9986.1  | 10219.2 | 10735.6 | 11662.1 | 11784.1 | 12613.8 | 11567.7 | 9209.0  |
| 25°   | 10475.0 | 10465.4 | 10427.2 | 10394.9 | 10551.5 | 10962.8 | 11753.0 | 11869.0 | 12868.4 | 11974.2 | 9315.4  |
| 27.5° | 11113.4 | 11101.5 | 11027.3 | 10938.9 | 11028.5 | 11316.6 | 12014.8 | 12106.9 | 13096.8 | 12354.3 | 9369.2  |
| 30°   | 11879.7 | 11848.6 | 11708.8 | 11603.6 | 11638.2 | 11847.5 | 12446.4 | 12530.1 | 13449.4 | 12785.9 | 9421.8  |
| 32.5° | 12765.6 | 12732.1 | 12530.1 | 12355.5 | 12355.5 | 12530.1 | 12891.1 | 12960.5 | 13748.3 | 13273.7 | 9506.7  |
| 35°   | 13875.0 | 13833.2 | 13570.2 | 13277.3 | 13194.8 | 13283.3 | 13497.2 | 13546.3 | 14286.3 | 13888.2 | 9660.9  |
| 37.5° | 15182.9 | 15126.7 | 14786.0 | 14393.9 | 14213.4 | 14208.6 | 14362.8 | 14463.2 | 15145.9 | 14695.1 | 9922.7  |
| 40°   | 16494.4 | 16454.9 | 16157.2 | 15848.8 | 15494.9 | 15381.4 | 15619.3 | 15650.4 | 16269.6 | 15697.0 | 10257.4 |
| 42.5° | 17508.2 | 17501.0 | 17446.0 | 17486.6 | 17124.4 | 16894.9 | 17081.4 | 17106.5 | 17642.1 | 16781.3 | 10613.7 |
| 45°   | 18043.8 | 18055.7 | 18322.3 | 18912.9 | 19046.8 | 18879.4 | 18971.5 | 18978.6 | 19210.6 | 17875.2 | 10940.1 |
| 47.5° | 17614.6 | 17676.7 | 18351.0 | 19672.0 | 20768.3 | 21324.2 | 21171.2 | 21259.7 | 20731.2 | 18814.9 | 11195.9 |
| 50°   | 15942.1 | 16018.6 | 17166.3 | 19333.7 | 21571.7 | 23690.1 | 23610.0 | 23589.7 | 21957.8 | 19503.5 | 11334.6 |
| 52.5° | 13870.2 | 13930.0 | 14876.9 | 17575.1 | 20982.3 | 24998.0 | 25733.2 | 25628.0 | 23048.1 | 20018.7 | 11360.9 |
| 55°   | 10715.3 | 10808.6 | 11715.9 | 14065.1 | 18598.5 | 24498.3 | 27294.6 | 27200.1 | 24041.6 | 20288.9 | 11329.8 |
| 57°   | 7617.8  | 7715.8  | 8617.2  | 10734.4 | 15645.6 | 22768.4 | 27450.0 | 27550.4 | 24578.4 | 20334.3 | 11364.5 |
| 57.5° | 6797.6  | 6898.1  | 7791.1  | 9847.4  | 14725.0 | 22143.1 | 27316.1 | 27483.5 | 24675.2 | 20327.2 | 11383.6 |
| 60°   | 3422.7  | 3461.0  | 4030.0  | 5496.9  | 9308.2  | 17901.5 | 25569.5 | 26001.0 | 24762.5 | 19975.7 | 11466.1 |
| 62.5° | 2128.0  | 2100.5  | 2082.6  | 2532.1  | 4528.6  | 11871.4 | 21965.0 | 22795.9 | 23092.4 | 19124.5 | 11266.4 |
| 65°   | 1871.0  | 1819.6  | 1622.3  | 1586.4  | 2000.1  | 5765.9  | 16541.0 | 17575.1 | 19523.8 | 17783.1 | 10790.6 |
| 67.5° | 1757.4  | 1707.2  | 1484.8  | 1350.9  | 1352.1  | 2285.8  | 10269.4 | 11433.8 | 15209.2 | 15515.3 | 9668.0  |
| 70°   | 1640.2  | 1594.8  | 1386.8  | 1229.0  | 1151.3  | 1266.0  | 4724.6  | 5608.1  | 9914.3  | 12195.3 | 8080.4  |
| 72.5° | 1489.6  | 1458.5  | 1261.3  | 1098.7  | 1016.2  | 948.0   | 1808.8  | 2136.4  | 5739.6  | 8190.4  | 5611.7  |
| 75°   | 1331.8  | 1303.1  | 1134.5  | 979.1   | 878.7   | 746.0   | 1018.6  | 1097.5  | 2915.8  | 4190.2  | 2762.8  |
| 77.5° | 1158.4  | 1141.7  | 1009.0  | 865.5   | 785.4   | 618.1   | 720.9   | 759.1   | 1250.5  | 1796.8  | 1385.6  |
| 80°   | 921.7   | 954.0   | 882.3   | 771.1   | 697.0   | 494.9   | 510.5   | 535.6   | 728.1   | 877.5   | 786.6   |
| 82.5° | 600.1   | 656.3   | 691.0   | 626.4   | 573.8   | 389.7   | 367.0   | 377.8   | 474.6   | 535.6   | 341.9   |
| 85°   | 249.9   | 280.9   | 454.3   | 410.1   | 381.4   | 284.5   | 246.3   | 251.1   | 294.1   | 304.9   | 139.9   |
| 87.5° | 111.2   | 118.4   | 199.6   | 187.7   | 161.4   | 98.0    | 105.2   | 114.8   | 156.6   | 148.2   | 53.8    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P321074

CATALOG NUMBER: GAN-SA0A-827-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 | 7715.8 |
| 2.5°  | 7723.0 | 7622.5 | 7450.4 | 7260.3 | 7104.9 | 6980.6 | 6855.0 | 6768.9 | 6668.5 | 6614.7 | 6587.2 |
| 5°    | 7728.9 | 7531.7 | 7169.4 | 6797.6 | 6465.3 | 6161.6 | 5872.3 | 5650.0 | 5441.9 | 5329.6 | 5298.5 |
| 7.5°  | 7754.0 | 7457.6 | 6871.8 | 6259.7 | 5669.1 | 5129.9 | 4713.9 | 4453.3 | 4265.6 | 4181.9 | 4158.0 |
| 10°   | 7774.4 | 7370.3 | 6503.5 | 5597.4 | 4794.0 | 4247.6 | 3924.8 | 3779.0 | 3714.4 | 3703.7 | 3692.9 |
| 12.5° | 7822.2 | 7280.6 | 6116.2 | 4906.4 | 4113.7 | 3736.0 | 3623.6 | 3614.0 | 3631.9 | 3658.2 | 3658.2 |
| 15°   | 7897.5 | 7192.2 | 5673.9 | 4313.4 | 3681.0 | 3548.3 | 3571.0 | 3623.6 | 3672.6 | 3713.2 | 3719.2 |
| 17.5° | 7952.5 | 7083.4 | 5198.1 | 3838.8 | 3450.2 | 3486.1 | 3567.4 | 3641.5 | 3691.7 | 3731.2 | 3734.8 |
| 20°   | 7991.9 | 6914.8 | 4690.0 | 3476.5 | 3317.5 | 3428.7 | 3530.3 | 3596.1 | 3630.7 | 3670.2 | 3676.2 |
| 22.5° | 7971.6 | 6688.8 | 4239.3 | 3217.1 | 3209.9 | 3345.0 | 3441.9 | 3520.8 | 3494.5 | 3456.2 | 3481.3 |
| 25°   | 7873.6 | 6378.0 | 3775.4 | 3023.4 | 3096.4 | 3232.6 | 3352.2 | 3299.6 | 3211.1 | 3194.4 | 3204.0 |
| 27.5° | 7699.1 | 5981.1 | 3346.2 | 2844.1 | 2964.9 | 3128.6 | 3121.5 | 3068.9 | 3037.8 | 3016.3 | 3029.4 |
| 30°   | 7511.4 | 5550.7 | 2970.8 | 2687.5 | 2819.0 | 2954.1 | 2926.6 | 2925.4 | 2894.3 | 2859.6 | 2876.4 |
| 32.5° | 7326.1 | 5118.0 | 2673.1 | 2558.4 | 2709.0 | 2726.9 | 2786.7 | 2804.7 | 2743.7 | 2670.8 | 2666.0 |
| 35°   | 7164.7 | 4709.1 | 2447.2 | 2441.2 | 2576.3 | 2578.7 | 2666.0 | 2640.9 | 2489.0 | 2413.7 | 2413.7 |
| 37.5° | 7043.9 | 4301.4 | 2275.0 | 2336.0 | 2401.8 | 2463.9 | 2508.2 | 2404.2 | 2379.1 | 2337.2 | 2336.0 |
| 40°   | 6991.3 | 3942.8 | 2167.5 | 2255.9 | 2278.6 | 2357.5 | 2244.0 | 2284.6 | 2296.6 | 2275.0 | 2275.0 |
| 42.5° | 6936.3 | 3630.7 | 2074.2 | 2194.9 | 2191.4 | 2180.6 | 2123.2 | 2175.8 | 2223.6 | 2224.8 | 2221.2 |
| 45°   | 6881.3 | 3361.8 | 1991.7 | 2064.6 | 2114.8 | 1998.9 | 2009.6 | 2065.8 | 2132.8 | 2156.7 | 2156.7 |
| 47.5° | 6820.4 | 3149.0 | 1916.4 | 1927.2 | 2004.9 | 1927.2 | 1918.8 | 1961.8 | 2040.7 | 2079.0 | 2087.4 |
| 50°   | 6686.5 | 2957.7 | 1830.3 | 1806.4 | 1827.9 | 1854.2 | 1861.4 | 1881.7 | 1969.0 | 2030.0 | 2044.3 |
| 52.5° | 6501.2 | 2786.7 | 1720.3 | 1695.2 | 1695.2 | 1794.5 | 1827.9 | 1833.9 | 1908.0 | 1981.0 | 1995.3 |
| 55°   | 6346.9 | 2677.9 | 1606.8 | 1602.0 | 1597.2 | 1731.1 | 1788.5 | 1798.0 | 1849.4 | 1906.8 | 1914.0 |
| 57°   | 6357.7 | 2669.6 | 1519.5 | 1524.3 | 1523.1 | 1666.5 | 1751.4 | 1771.7 | 1798.0 | 1847.1 | 1855.4 |
| 57.5° | 6363.7 | 2675.5 | 1500.4 | 1502.7 | 1501.6 | 1648.6 | 1740.7 | 1763.4 | 1783.7 | 1835.1 | 1843.5 |
| 60°   | 6453.3 | 2691.1 | 1422.7 | 1396.3 | 1402.3 | 1553.0 | 1679.7 | 1708.4 | 1721.5 | 1789.7 | 1800.4 |
| 62.5° | 6320.6 | 2621.7 | 1360.5 | 1297.1 | 1297.1 | 1452.5 | 1594.8 | 1640.2 | 1660.6 | 1752.6 | 1770.5 |
| 65°   | 5935.7 | 2426.9 | 1287.6 | 1184.7 | 1196.7 | 1352.1 | 1493.2 | 1567.3 | 1598.4 | 1713.2 | 1732.3 |
| 67.5° | 5341.5 | 2200.9 | 1209.9 | 1084.3 | 1096.3 | 1246.9 | 1388.0 | 1468.1 | 1517.1 | 1670.1 | 1685.7 |
| 70°   | 4568.0 | 1924.8 | 1104.6 | 977.9  | 992.3  | 1132.1 | 1263.6 | 1354.5 | 1427.4 | 1629.5 | 1634.3 |
| 72.5° | 3367.7 | 1578.1 | 957.6  | 860.8  | 876.3  | 998.2  | 1138.1 | 1243.3 | 1341.4 | 1527.9 | 1525.5 |
| 75°   | 2002.5 | 1233.8 | 795.0  | 742.4  | 753.2  | 866.7  | 1024.5 | 1152.5 | 1299.5 | 1488.4 | 1511.1 |
| 77.5° | 1214.6 | 928.9  | 648.0  | 621.7  | 634.8  | 750.8  | 943.3  | 1079.5 | 1281.6 | 1403.5 | 1396.3 |
| 80°   | 734.0  | 663.5  | 517.7  | 500.9  | 514.1  | 642.0  | 872.7  | 1024.5 | 1120.2 | 1199.1 | 1199.1 |
| 82.5° | 383.8  | 405.3  | 380.2  | 367.0  | 385.0  | 521.2  | 793.8  | 894.2  | 989.9  | 850.0  | 793.8  |
| 85°   | 156.6  | 211.6  | 230.7  | 229.5  | 240.3  | 361.0  | 685.0  | 765.1  | 638.4  | 606.1  | 620.5  |
| 87.5° | 52.6   | 89.7   | 112.4  | 96.8   | 101.6  | 227.1  | 474.6  | 369.4  | 438.8  | 306.0  | 290.5  |
| 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)