

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: P268857

Luminaire Tested: **GAN-AF-09-LED-U-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-T2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45369.9 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 501  
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: 28.75 FT

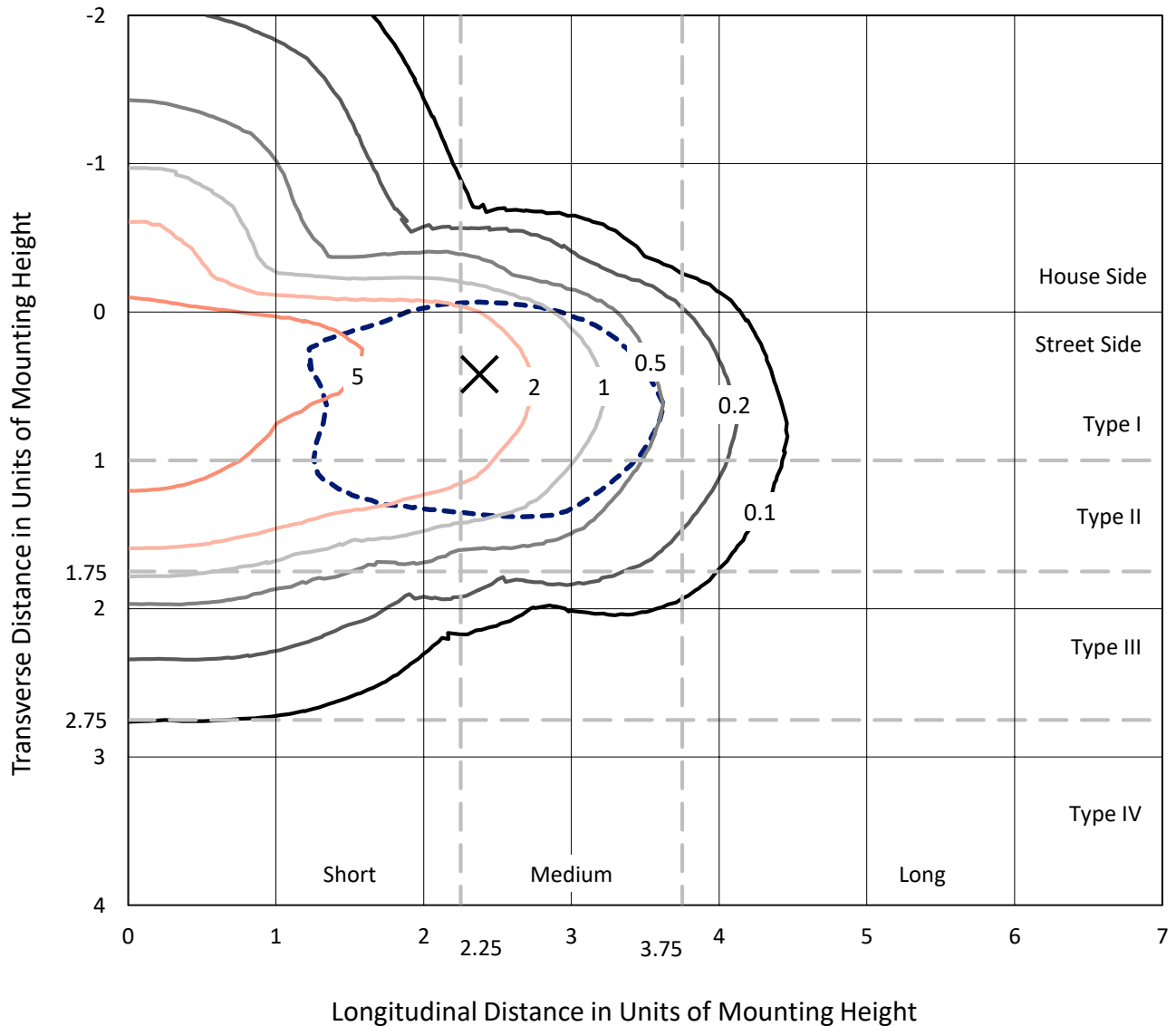


REPORT NUMBER: P268857

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

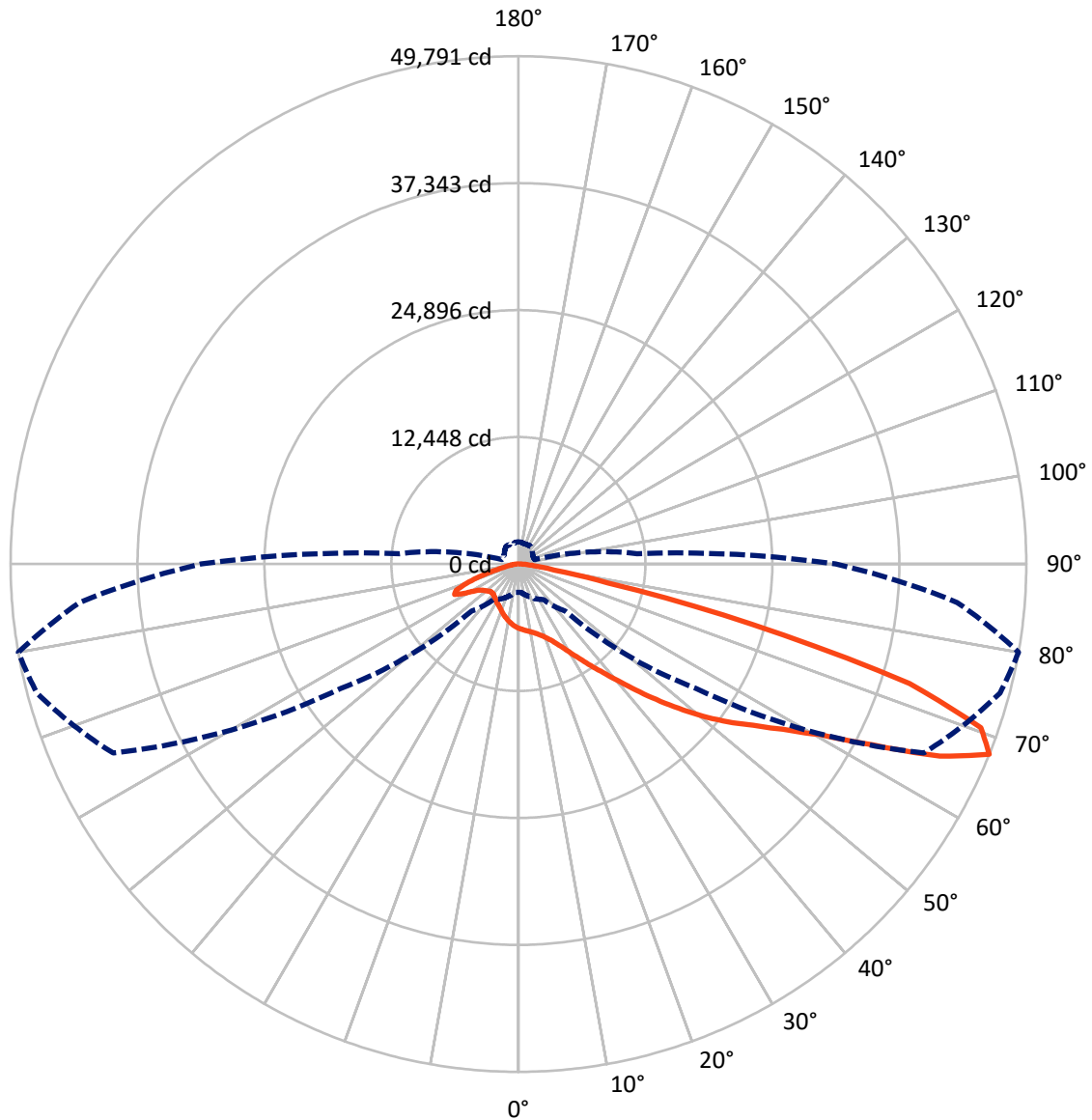


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P268857

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P268857

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7027

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8355.4   | 0.0    | 8355.4  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 37014.5  | 0.0    | 37014.5 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 45369.9  | 0.0    | 45369.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 581.4   | 1.3       |
| 10°-20°   | 1675.0  | 3.7       |
| 20°-30°   | 2772.4  | 6.1       |
| 30°-40°   | 4535.0  | 10.0      |
| 40°-50°   | 7322.2  | 16.1      |
| 50°-60°   | 10571.1 | 23.3      |
| 60°-70°   | 11665.9 | 25.7      |
| 70°-80°   | 5377.2  | 11.9      |
| 80°-90°   | 869.7   | 1.9       |
| 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°    | 45369.9 | 100.0     |
| 0°-180°   | 45369.9 | 100.0     |



REPORT NUMBER: P268857

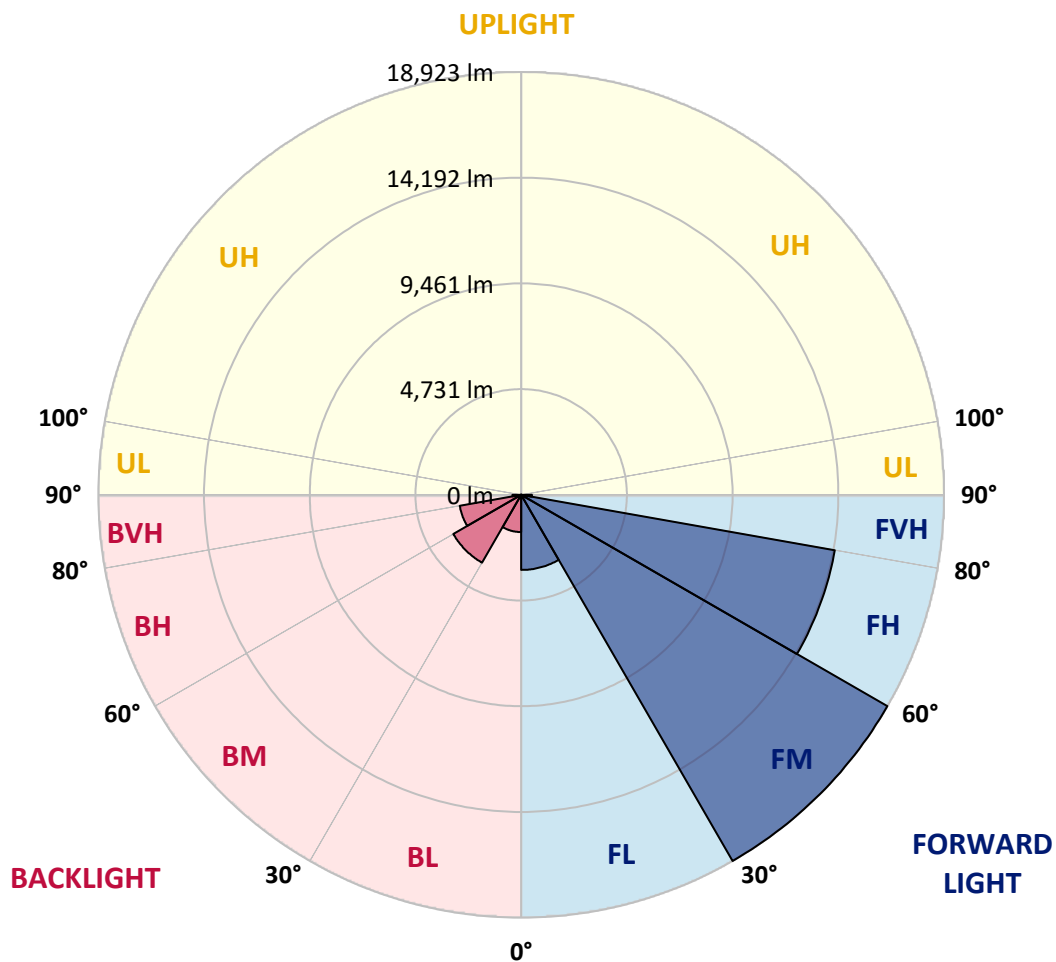
CATALOG NUMBER: GAN-AF-09-LED-U-T2-7027

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3361.8  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 18922.7 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 14251.9 | 31.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 478.2   | 1.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1667.0  | 3.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3505.6  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2791.2  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 391.6   | 0.9       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium





REPORT NUMBER: P268857

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7027

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  | 6303.1  |
| 2.5°  | 6895.1  | 6854.8  | 6861.7  | 6850.5  | 6817.0  | 6758.8  | 6696.3  | 6582.4  | 6464.1  | 6401.5  | 6352.4  |
| 5°    | 7471.4  | 7460.2  | 7444.6  | 7408.9  | 7323.9  | 7203.4  | 7053.8  | 6852.7  | 6636.0  | 6522.1  | 6412.6  |
| 7.5°  | 7902.5  | 7895.7  | 7875.7  | 7853.3  | 7770.7  | 7625.5  | 7399.9  | 7113.9  | 6799.0  | 6642.6  | 6472.9  |
| 10°   | 7938.2  | 7949.5  | 7965.0  | 8025.3  | 8036.4  | 7958.4  | 7728.3  | 7382.0  | 6968.8  | 6767.8  | 6551.1  |
| 12.5° | 7634.4  | 7658.9  | 7719.3  | 7873.5  | 8036.4  | 8132.5  | 8014.1  | 7663.5  | 7167.5  | 6924.1  | 6649.4  |
| 15°   | 7232.3  | 7245.8  | 7319.5  | 7531.7  | 7824.2  | 8121.3  | 8233.1  | 7974.0  | 7424.5  | 7125.1  | 6796.8  |
| 17.5° | 7060.4  | 7067.1  | 7118.4  | 7259.3  | 7531.7  | 7956.1  | 8355.9  | 8311.2  | 7739.3  | 7375.4  | 6977.8  |
| 20°   | 6973.4  | 6989.0  | 7062.7  | 7201.2  | 7373.1  | 7743.8  | 8373.7  | 8675.3  | 8114.7  | 7688.1  | 7205.6  |
| 22.5° | 7221.2  | 7214.5  | 7241.2  | 7310.5  | 7455.8  | 7679.2  | 8360.3  | 9050.6  | 8592.6  | 8090.0  | 7502.6  |
| 25°   | 7799.8  | 7824.2  | 7777.3  | 7699.3  | 7746.2  | 7902.5  | 8431.9  | 9457.0  | 9191.3  | 8606.0  | 7891.3  |
| 27.5° | 8623.9  | 8599.4  | 8530.0  | 8347.0  | 8250.9  | 8317.9  | 8668.6  | 9894.8  | 9935.1  | 9285.1  | 8405.0  |
| 30°   | 9445.9  | 9425.7  | 9358.7  | 9135.5  | 8938.9  | 8883.0  | 9128.7  | 10397.4 | 10821.8 | 10100.4 | 9035.0  |
| 32.5° | 10299.1 | 10276.8 | 10214.3 | 9990.9  | 9754.2  | 9624.6  | 9783.1  | 10978.1 | 11867.1 | 11074.1 | 9776.4  |
| 35°   | 11351.2 | 11308.8 | 11176.9 | 10866.4 | 10634.1 | 10533.6 | 10607.4 | 11708.5 | 13073.3 | 12226.7 | 10676.5 |
| 37.5° | 12340.6 | 12405.5 | 12271.3 | 11842.5 | 11541.0 | 11505.2 | 11587.9 | 12599.6 | 14373.2 | 13515.4 | 11710.8 |
| 40°   | 13334.6 | 13345.7 | 13225.1 | 12874.5 | 12564.0 | 12505.9 | 12713.6 | 13680.7 | 15907.6 | 15056.8 | 12968.2 |
| 42.5° | 14362.0 | 14384.4 | 14181.2 | 13857.3 | 13629.4 | 13640.6 | 13877.3 | 14947.2 | 17667.8 | 16872.5 | 14415.6 |
| 45°   | 15579.3 | 15612.8 | 15389.5 | 14965.1 | 14757.4 | 15175.1 | 15076.8 | 16367.7 | 19597.6 | 18936.5 | 16077.4 |
| 47.5° | 16852.6 | 16903.9 | 16734.0 | 16336.5 | 16077.4 | 16651.4 | 16276.2 | 17942.4 | 21674.8 | 21150.0 | 17902.2 |
| 50°   | 17547.1 | 17620.9 | 17786.1 | 17757.1 | 17701.2 | 17605.3 | 17614.1 | 19631.1 | 23816.9 | 23454.9 | 19778.5 |
| 52.5° | 17174.2 | 17171.9 | 17774.9 | 18507.6 | 19289.3 | 19347.4 | 19244.7 | 21411.2 | 25818.1 | 25708.8 | 21545.3 |
| 55°   | 15467.6 | 15583.7 | 16497.4 | 17915.6 | 20051.0 | 21384.4 | 21688.1 | 23450.6 | 27783.7 | 27911.0 | 23338.9 |
| 57.5° | 12626.5 | 12722.5 | 13955.4 | 15932.2 | 19023.5 | 22595.1 | 25163.7 | 26414.5 | 29981.6 | 30575.7 | 25726.6 |
| 60°   | 8563.6  | 8679.8  | 9986.4  | 12360.7 | 16258.3 | 21920.5 | 28471.6 | 31703.6 | 32612.7 | 33964.0 | 29077.0 |
| 62.5° | 5032.2  | 5137.2  | 6202.6  | 7797.5  | 11447.2 | 18786.8 | 29923.5 | 39228.7 | 36791.8 | 39076.8 | 34187.4 |
| 65°   | 3464.4  | 3535.8  | 4054.1  | 4853.6  | 6578.0  | 12653.3 | 28123.1 | 44424.1 | 43222.3 | 45411.3 | 40113.2 |
| 67.5° | 2787.5  | 2778.5  | 3189.6  | 3734.6  | 4234.9  | 6524.3  | 21266.0 | 43836.6 | 48877.8 | 49791.3 | 43188.8 |
| 70°   | 2296.2  | 2287.3  | 2566.4  | 3017.5  | 3383.8  | 3674.2  | 11583.5 | 36992.8 | 47725.2 | 48096.1 | 40356.6 |
| 72.5° | 1920.8  | 1929.7  | 2108.5  | 2443.6  | 2776.3  | 2767.4  | 5090.3  | 26023.5 | 37544.5 | 40108.7 | 32170.6 |
| 75°   | 1621.6  | 1626.0  | 1744.5  | 1981.2  | 2253.7  | 2229.1  | 2760.8  | 14098.4 | 21824.4 | 23609.2 | 17833.1 |
| 77.5° | 1380.3  | 1384.8  | 1460.7  | 1592.5  | 1786.9  | 1777.9  | 2014.7  | 6091.0  | 9104.1  | 8992.5  | 6099.9  |
| 80°   | 1230.7  | 1230.7  | 1266.4  | 1291.0  | 1398.2  | 1358.0  | 1494.3  | 2926.0  | 3848.5  | 3553.7  | 2434.6  |
| 82.5° | 964.9   | 969.5   | 1188.3  | 1179.4  | 1101.1  | 1049.8  | 1049.8  | 1724.3  | 2039.2  | 1885.2  | 1425.0  |
| 85°   | 542.8   | 540.5   | 766.2   | 924.7   | 969.5   | 739.3   | 732.6   | 964.9   | 1110.0  | 978.3   | 690.2   |
| 87.5° | 232.3   | 236.8   | 355.1   | 411.0   | 549.5   | 460.1   | 453.5   | 498.1   | 565.2   | 489.1   | 319.3   |
| 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: P268857

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7027

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6303.1  | 6303.1  | 6303.1 | 6303.1 | 6303.1 | 6303.1 | 6303.1 | 6303.1 | 6303.1 | 6303.1 | 6303.1 |
| 2.5°  | 6305.5  | 6247.4  | 6120.1 | 5961.4 | 5818.5 | 5724.7 | 5639.7 | 5517.0 | 5523.7 | 5438.8 | 5376.3 |
| 5°    | 6301.0  | 6180.3  | 5885.5 | 5534.8 | 5197.6 | 4954.2 | 4771.0 | 4605.7 | 4565.5 | 4487.4 | 4440.4 |
| 7.5°  | 6305.5  | 6108.8  | 5613.0 | 5052.3 | 4634.7 | 4326.4 | 4170.1 | 4083.1 | 4062.9 | 4036.2 | 4038.3 |
| 10°   | 6321.1  | 6044.2  | 5313.7 | 4601.2 | 4163.5 | 3960.2 | 3922.2 | 3948.9 | 3980.3 | 3989.3 | 3991.3 |
| 12.5° | 6356.9  | 5986.0  | 4985.4 | 4199.1 | 3868.6 | 3806.1 | 3870.8 | 3962.5 | 4022.7 | 4051.7 | 4049.5 |
| 15°   | 6437.3  | 5941.4  | 4670.5 | 3884.2 | 3705.6 | 3739.0 | 3859.7 | 3989.3 | 4076.2 | 4116.6 | 4118.8 |
| 17.5° | 6524.3  | 5876.6  | 4346.5 | 3642.9 | 3585.0 | 3669.8 | 3819.5 | 3971.3 | 4078.6 | 4123.2 | 4132.2 |
| 20°   | 6638.2  | 5796.1  | 4007.1 | 3462.1 | 3471.1 | 3567.1 | 3707.8 | 3859.7 | 3978.1 | 4016.1 | 4033.8 |
| 22.5° | 6788.0  | 5709.1  | 3710.0 | 3314.7 | 3341.4 | 3415.1 | 3524.6 | 3656.5 | 3759.1 | 3777.1 | 3792.6 |
| 25°   | 6989.0  | 5615.2  | 3473.2 | 3180.7 | 3191.8 | 3234.3 | 3308.0 | 3386.2 | 3457.5 | 3437.5 | 3453.2 |
| 27.5° | 7259.3  | 5534.8  | 3296.8 | 3057.8 | 3037.7 | 3046.6 | 3084.6 | 3109.2 | 3147.1 | 3091.2 | 3098.1 |
| 30°   | 7576.3  | 5447.7  | 3160.5 | 2950.7 | 2894.8 | 2879.1 | 2888.1 | 2901.4 | 2930.5 | 2854.5 | 2843.3 |
| 32.5° | 7944.9  | 5342.8  | 3033.2 | 2856.8 | 2778.5 | 2747.3 | 2751.8 | 2787.5 | 2899.2 | 2852.3 | 2827.8 |
| 35°   | 8373.7  | 5224.5  | 2899.2 | 2754.1 | 2700.5 | 2655.7 | 2651.3 | 2762.9 | 3095.7 | 3066.8 | 3044.4 |
| 37.5° | 8876.3  | 5106.0  | 2765.3 | 2637.9 | 2642.4 | 2593.1 | 2577.5 | 2704.8 | 3133.7 | 3019.8 | 3004.2 |
| 40°   | 9515.0  | 5043.4  | 2651.3 | 2515.1 | 2570.9 | 2564.1 | 2533.0 | 2597.7 | 2883.6 | 2675.8 | 2649.0 |
| 42.5° | 10305.9 | 5052.3  | 2566.4 | 2383.3 | 2486.0 | 2557.5 | 2508.3 | 2510.6 | 2613.3 | 2457.0 | 2432.4 |
| 45°   | 11282.0 | 5157.3  | 2506.1 | 2278.3 | 2389.9 | 2550.7 | 2499.4 | 2463.6 | 2472.6 | 2389.9 | 2376.6 |
| 47.5° | 12421.0 | 5374.0  | 2463.6 | 2191.1 | 2298.4 | 2526.3 | 2497.2 | 2450.2 | 2430.2 | 2385.4 | 2374.3 |
| 50°   | 13687.5 | 5689.0  | 2432.4 | 2108.5 | 2215.7 | 2486.0 | 2499.4 | 2436.8 | 2414.6 | 2396.7 | 2389.9 |
| 52.5° | 14931.5 | 6048.6  | 2385.4 | 2037.0 | 2150.9 | 2436.8 | 2506.1 | 2423.4 | 2398.8 | 2385.4 | 2378.8 |
| 55°   | 16318.7 | 6497.5  | 2314.0 | 1976.7 | 2097.4 | 2374.3 | 2506.1 | 2403.3 | 2376.6 | 2378.8 | 2376.6 |
| 57.5° | 18192.7 | 7223.5  | 2229.1 | 1925.3 | 2032.5 | 2298.4 | 2463.6 | 2381.0 | 2347.5 | 2349.7 | 2352.0 |
| 60°   | 21120.9 | 8503.3  | 2126.4 | 1874.0 | 1952.1 | 2209.0 | 2405.7 | 2331.9 | 2298.4 | 2307.2 | 2309.5 |
| 62.5° | 25427.2 | 10381.7 | 1992.4 | 1798.0 | 1867.2 | 2113.0 | 2325.2 | 2269.4 | 2235.8 | 2258.2 | 2258.2 |
| 65°   | 29903.4 | 12039.1 | 1827.2 | 1702.0 | 1777.9 | 2008.0 | 2224.7 | 2191.1 | 2157.6 | 2209.0 | 2206.7 |
| 67.5° | 31107.2 | 11668.4 | 1661.8 | 1597.0 | 1688.6 | 1891.9 | 2104.0 | 2086.1 | 2068.3 | 2157.6 | 2153.1 |
| 70°   | 27634.0 | 9367.6  | 1510.0 | 1489.7 | 1590.3 | 1766.7 | 1974.6 | 1974.6 | 1963.3 | 2030.3 | 2014.7 |
| 72.5° | 21053.8 | 6642.6  | 1364.7 | 1375.9 | 1478.6 | 1630.6 | 1833.8 | 1849.4 | 1831.6 | 1865.1 | 1851.6 |
| 75°   | 11270.8 | 3801.5  | 1219.5 | 1250.8 | 1340.1 | 1492.1 | 1677.5 | 1693.0 | 1681.8 | 1679.7 | 1686.4 |
| 77.5° | 3745.8  | 1858.4  | 1067.6 | 1116.9 | 1194.9 | 1349.1 | 1514.5 | 1538.9 | 1512.1 | 1507.6 | 1505.4 |
| 80°   | 1668.5  | 1168.2  | 900.1  | 964.9  | 1034.2 | 1186.0 | 1342.3 | 1362.5 | 1333.4 | 1373.7 | 1322.2 |
| 82.5° | 1072.1  | 768.4   | 721.5  | 792.9  | 859.9  | 1023.0 | 1170.4 | 1174.9 | 1148.0 | 1333.4 | 1137.0 |
| 85°   | 520.4   | 475.7   | 542.8  | 607.6  | 665.6  | 804.2  | 969.5  | 971.5  | 904.7  | 824.1  | 795.2  |
| 87.5° | 259.2   | 276.9   | 361.8  | 419.9  | 449.0  | 551.6  | 705.8  | 692.5  | 663.4  | 603.0  | 556.2  |
| 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)