

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: P193548

Luminaire Tested: **GAN-AF-10-LED-U-RW-8030-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-RW-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 39705 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 419  
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



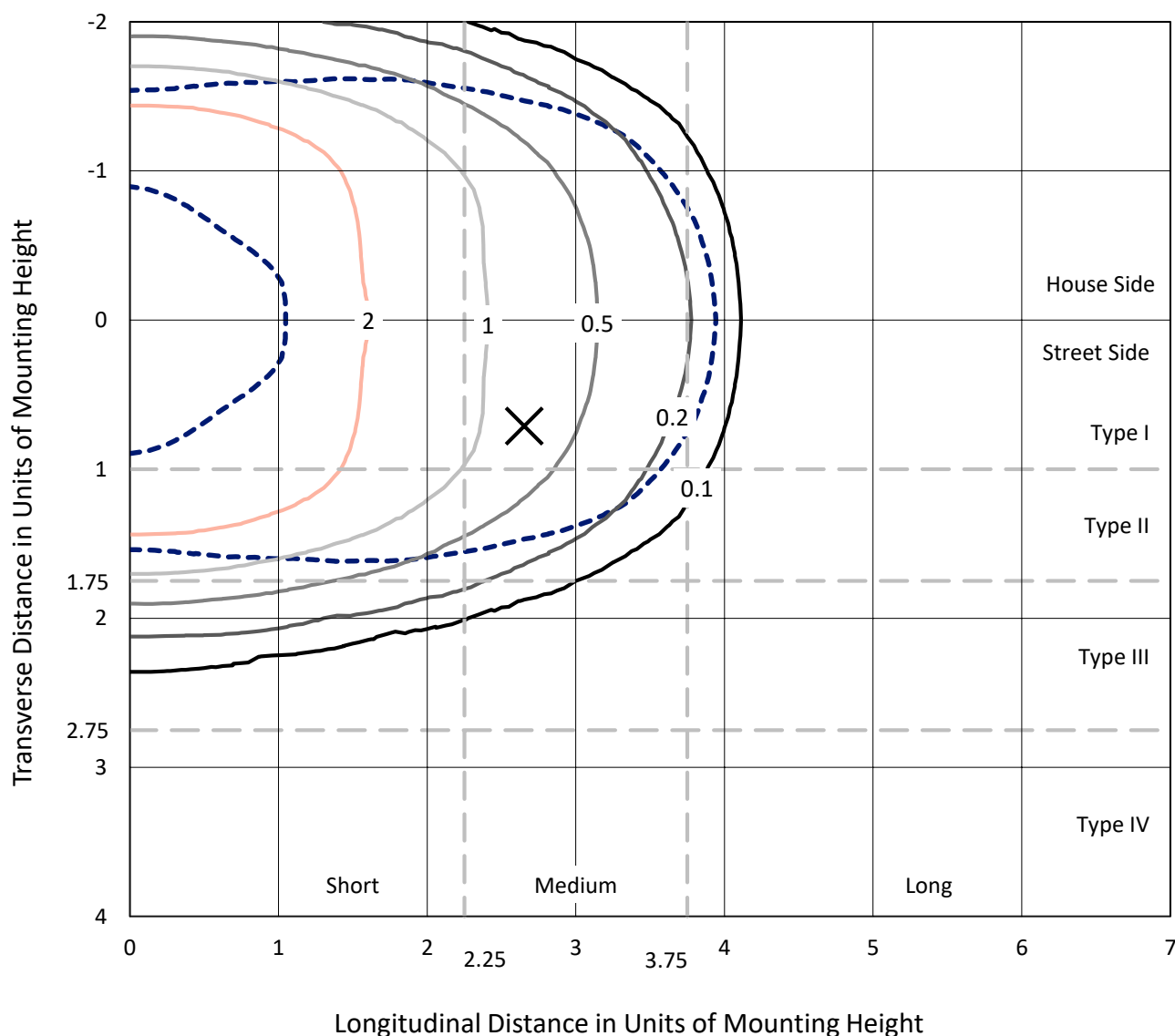
REPORT NUMBER: P193548

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

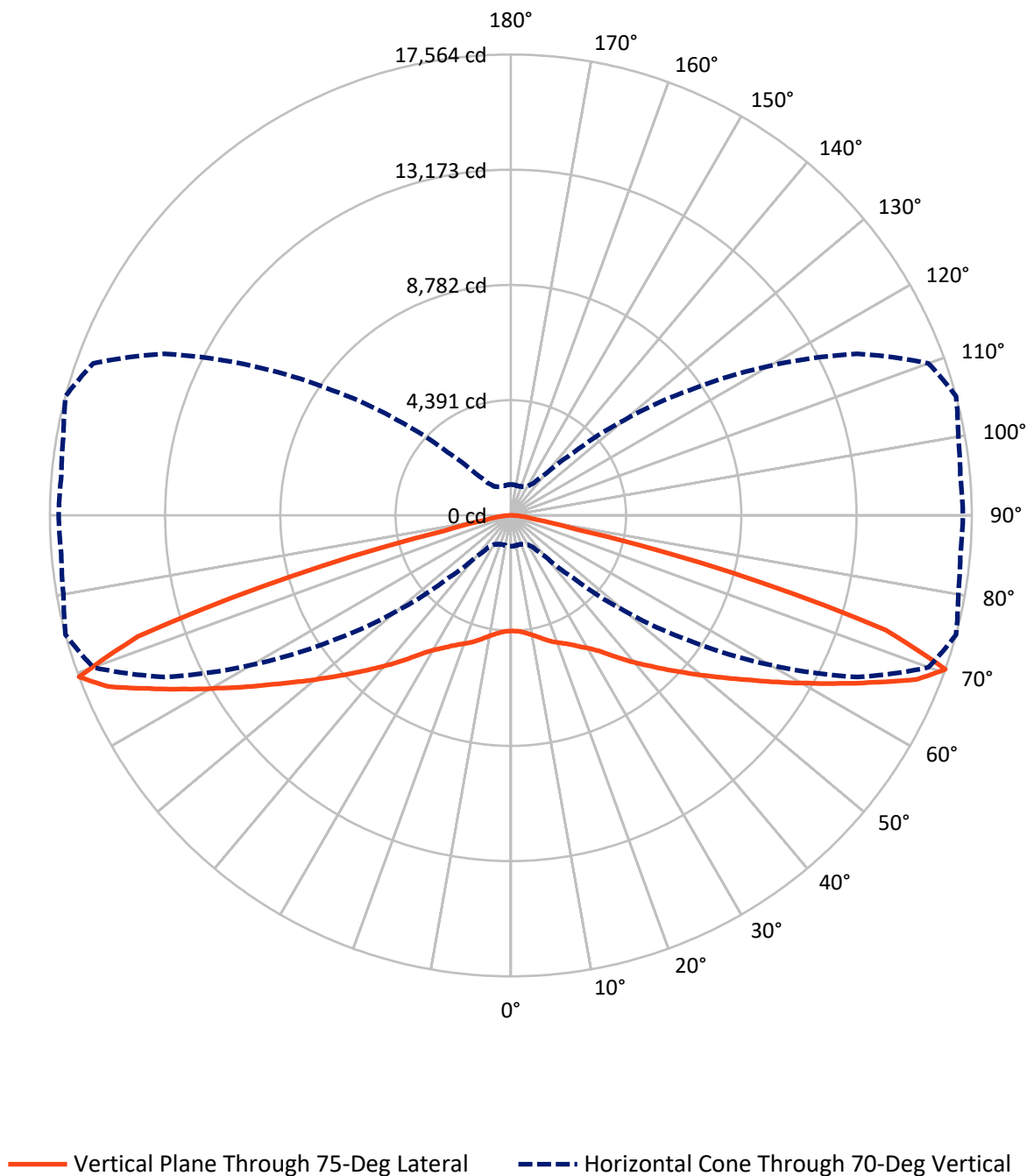


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P193548

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-800

## Luminous Intensity Polar Plot



REPORT NUMBER: P193548

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-800

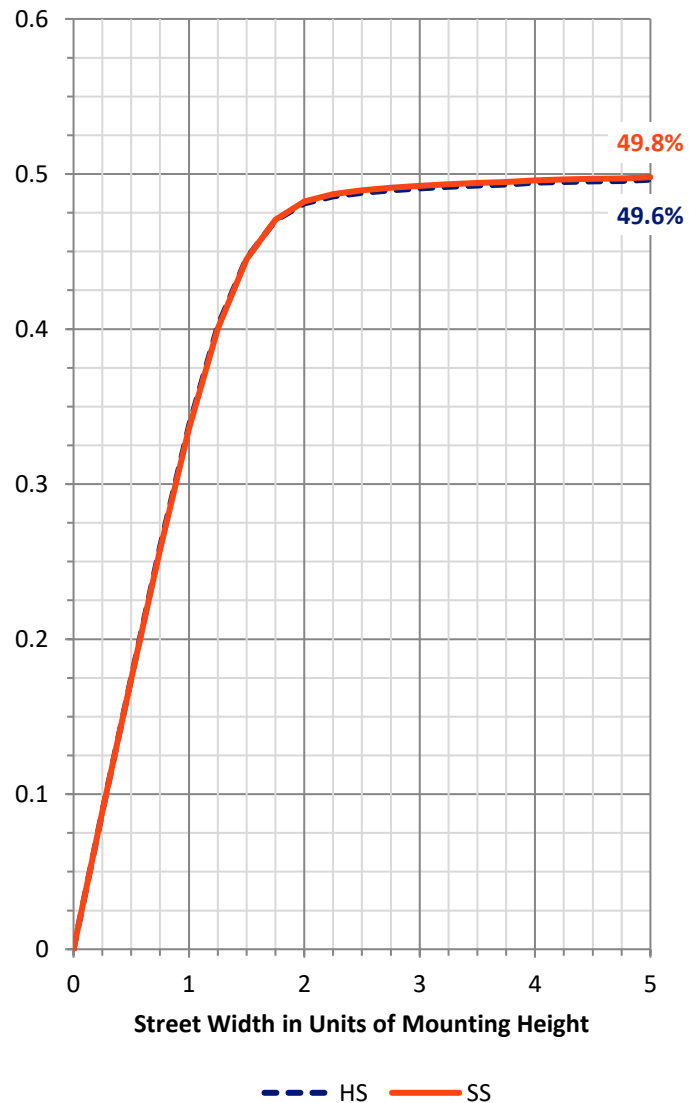
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19852.5  | 0.0    | 19852.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19852.5  | 0.0    | 19852.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39705.0  | 0.0    | 39705.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 422.4   | 1.1       |
| 10°-20°   | 1312.5  | 3.3       |
| 20°-30°   | 2470.2  | 6.2       |
| 30°-40°   | 4374.3  | 11.0      |
| 40°-50°   | 7315.3  | 18.4      |
| 50°-60°   | 10193.8 | 25.7      |
| 60°-70°   | 9453.1  | 23.8      |
| 70°-80°   | 3767.4  | 9.5       |
| 80°-90°   | 396.0   | 1.0       |
| 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°    | 39705.0 | 100.0     |
| 0°-180°   | 39705.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193548

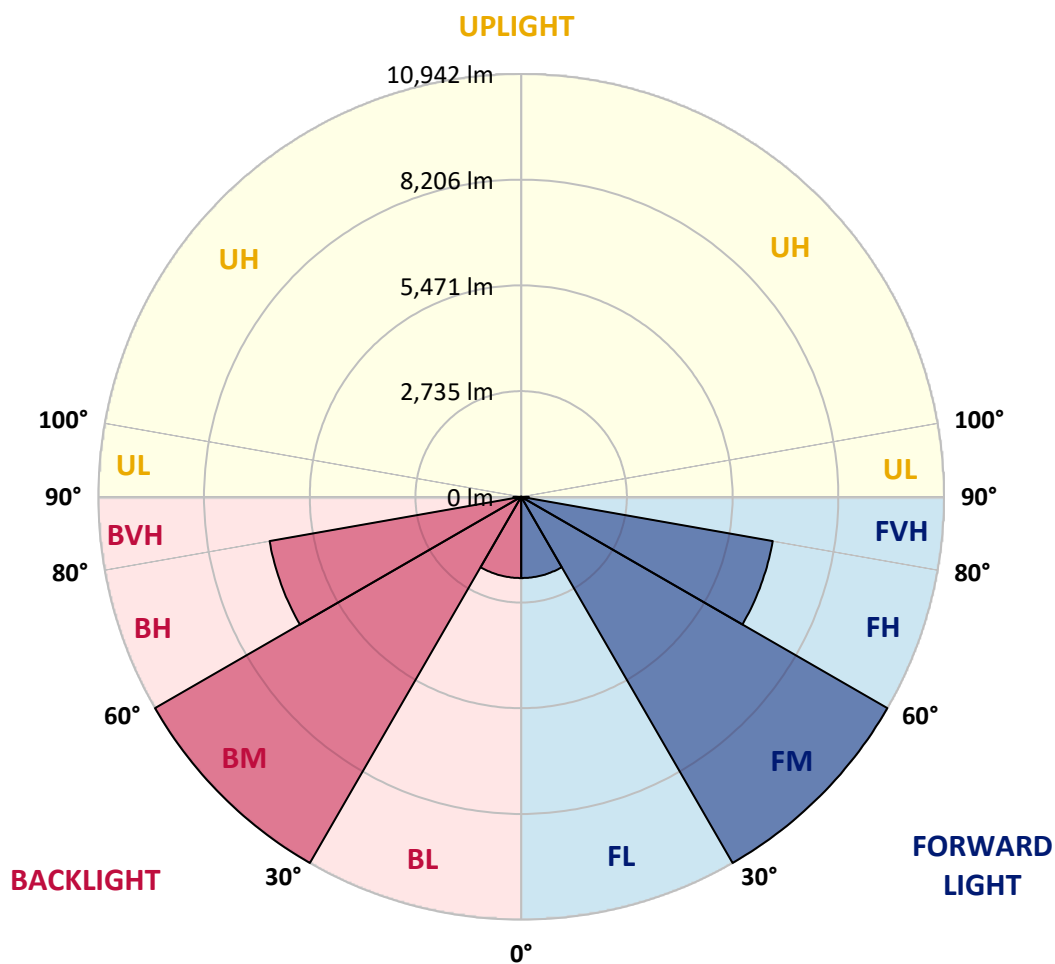
CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-800

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2102.5  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 10941.7 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 6610.2  | 16.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 198.0   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2102.5  | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 10941.7 | 27.6      | B5                      |      |         |
| BH   | (60°-80°)   | 6610.2  | 16.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 198.0   | 0.5       |                         |      | 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 Medium





REPORT NUMBER: P193548

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  |
| 2.5°  | 4396.7  | 4393.0  | 4396.7  | 4394.8  | 4398.6  | 4398.6  | 4402.3  | 4409.8  | 4409.8  | 4415.5  | 4413.6  |
| 5°    | 4353.5  | 4351.7  | 4357.3  | 4362.9  | 4368.6  | 4379.8  | 4391.1  | 4408.0  | 4421.1  | 4430.5  | 4439.9  |
| 7.5°  | 4269.1  | 4269.1  | 4276.6  | 4289.7  | 4302.9  | 4327.3  | 4353.5  | 4387.3  | 4421.1  | 4449.2  | 4473.6  |
| 10°   | 4199.7  | 4203.4  | 4212.8  | 4235.3  | 4257.8  | 4295.4  | 4331.0  | 4379.8  | 4426.7  | 4473.6  | 4511.2  |
| 12.5° | 4158.4  | 4164.0  | 4180.9  | 4214.7  | 4252.2  | 4302.9  | 4357.3  | 4419.2  | 4471.8  | 4528.1  | 4565.6  |
| 15°   | 4171.5  | 4175.3  | 4199.7  | 4241.0  | 4289.7  | 4353.5  | 4426.7  | 4499.9  | 4561.8  | 4621.9  | 4672.6  |
| 17.5° | 4244.7  | 4250.3  | 4278.5  | 4325.4  | 4376.1  | 4451.1  | 4529.9  | 4612.5  | 4689.4  | 4757.0  | 4818.9  |
| 20°   | 4376.1  | 4381.7  | 4417.3  | 4468.0  | 4528.1  | 4605.0  | 4683.8  | 4770.1  | 4856.5  | 4927.8  | 4997.2  |
| 22.5° | 4561.8  | 4571.2  | 4605.0  | 4655.7  | 4723.2  | 4805.8  | 4899.6  | 4991.6  | 5074.1  | 5139.8  | 5201.7  |
| 25°   | 4805.8  | 4826.4  | 4858.3  | 4914.6  | 4985.9  | 5061.0  | 5162.3  | 5256.2  | 5335.0  | 5396.9  | 5441.9  |
| 27.5° | 5151.1  | 5179.2  | 5203.6  | 5258.0  | 5327.5  | 5398.8  | 5500.1  | 5582.7  | 5657.7  | 5717.8  | 5751.6  |
| 30°   | 5608.9  | 5637.1  | 5661.5  | 5714.0  | 5777.8  | 5845.4  | 5941.1  | 6014.3  | 6061.2  | 6108.1  | 6106.2  |
| 32.5° | 6164.4  | 6194.4  | 6203.8  | 6260.1  | 6325.8  | 6399.0  | 6485.3  | 6526.6  | 6564.1  | 6569.7  | 6535.9  |
| 35°   | 6785.5  | 6800.5  | 6838.1  | 6913.1  | 6988.2  | 7048.2  | 7130.8  | 7151.4  | 7151.4  | 7123.3  | 7048.2  |
| 37.5° | 7466.7  | 7476.1  | 7528.6  | 7613.1  | 7690.0  | 7751.9  | 7808.2  | 7849.5  | 7828.9  | 7768.8  | 7643.1  |
| 40°   | 8213.6  | 8230.4  | 8305.5  | 8380.6  | 8466.9  | 8525.1  | 8585.1  | 8592.6  | 8572.0  | 8483.8  | 8313.0  |
| 42.5° | 8926.6  | 8941.7  | 9016.7  | 9134.9  | 9247.5  | 9328.2  | 9384.5  | 9395.8  | 9330.1  | 9249.4  | 9037.4  |
| 45°   | 9540.3  | 9579.7  | 9677.3  | 9816.1  | 9979.4  | 10093.8 | 10170.8 | 10202.7 | 10144.5 | 10039.4 | 9793.6  |
| 47.5° | 10026.3 | 10065.7 | 10204.6 | 10369.7 | 10572.4 | 10758.1 | 10885.7 | 10953.3 | 10938.3 | 10859.5 | 10591.1 |
| 50°   | 10382.8 | 10420.4 | 10570.5 | 10773.1 | 11009.6 | 11240.4 | 11458.1 | 11619.5 | 11675.8 | 11640.1 | 11394.3 |
| 52.5° | 10424.1 | 10486.0 | 10662.4 | 10934.5 | 11242.3 | 11557.5 | 11867.2 | 12141.1 | 12326.9 | 12355.1 | 12173.0 |
| 55°   | 9848.0  | 9909.9  | 10153.9 | 10557.3 | 11015.2 | 11529.4 | 12024.8 | 12486.4 | 12852.3 | 13040.0 | 12944.3 |
| 57.5° | 8489.4  | 8600.1  | 8857.2  | 9330.1  | 10003.8 | 10773.1 | 11563.2 | 12383.2 | 13128.2 | 13625.5 | 13721.2 |
| 60°   | 6505.9  | 6637.3  | 6896.2  | 7399.1  | 8149.8  | 9067.4  | 10122.0 | 11334.2 | 12649.7 | 13768.1 | 14436.1 |
| 62.5° | 4173.4  | 4297.2  | 4569.3  | 5006.6  | 5618.3  | 6612.9  | 7744.4  | 9183.7  | 10951.4 | 12717.2 | 14308.5 |
| 65°   | 2144.9  | 2212.4  | 2355.0  | 2619.6  | 3096.3  | 3839.4  | 4854.6  | 6290.1  | 8311.1  | 10489.8 | 12790.4 |
| 67.5° | 1358.6  | 1371.7  | 1403.6  | 1441.2  | 1563.1  | 1820.2  | 2293.1  | 3188.2  | 4850.8  | 7123.3  | 9816.1  |
| 70°   | 1174.7  | 1174.7  | 1159.7  | 1154.1  | 1169.1  | 1204.7  | 1277.9  | 1486.2  | 2047.3  | 3381.5  | 5661.5  |
| 72.5° | 1075.3  | 1064.0  | 1037.7  | 1017.1  | 1013.3  | 1013.3  | 1028.3  | 1060.2  | 1150.3  | 1377.4  | 2216.2  |
| 75°   | 990.8   | 958.9   | 923.3   | 898.9   | 889.5   | 880.1   | 878.2   | 883.8   | 902.6   | 938.3   | 1058.4  |
| 77.5° | 887.6   | 846.3   | 805.0   | 780.6   | 769.4   | 756.2   | 745.0   | 731.8   | 722.5   | 733.7   | 786.3   |
| 80°   | 763.7   | 716.8   | 684.9   | 669.9   | 658.7   | 639.9   | 615.5   | 593.0   | 572.3   | 568.6   | 600.5   |
| 82.5° | 615.5   | 561.1   | 563.0   | 568.6   | 547.9   | 521.7   | 495.4   | 471.0   | 435.4   | 416.6   | 435.4   |
| 85°   | 497.3   | 469.1   | 456.0   | 491.7   | 461.6   | 422.2   | 380.9   | 337.8   | 281.5   | 236.4   | 257.1   |
| 87.5° | 193.3   | 193.3   | 289.0   | 444.7   | 399.7   | 326.5   | 279.6   | 238.3   | 148.2   | 114.5   | 116.3   |
| 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: P193548

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  | 4404.2  |
| 2.5°  | 4411.7  | 4415.5  | 4413.6  | 4411.7  | 4411.7  | 4409.8  | 4411.7  | 4411.7  |
| 5°    | 4445.5  | 4454.9  | 4454.9  | 4458.6  | 4458.6  | 4460.5  | 4462.4  | 4460.5  |
| 7.5°  | 4496.2  | 4513.0  | 4524.3  | 4537.4  | 4539.3  | 4541.2  | 4544.9  | 4541.2  |
| 10°   | 4546.8  | 4580.6  | 4605.0  | 4629.4  | 4640.7  | 4644.4  | 4648.2  | 4648.2  |
| 12.5° | 4610.6  | 4657.5  | 4700.7  | 4743.9  | 4764.5  | 4775.8  | 4775.8  | 4783.3  |
| 15°   | 4715.7  | 4762.6  | 4813.3  | 4871.5  | 4907.1  | 4925.9  | 4931.5  | 4931.5  |
| 17.5° | 4864.0  | 4905.2  | 4948.4  | 5004.7  | 5049.7  | 5074.1  | 5079.8  | 5077.9  |
| 20°   | 5036.6  | 5076.0  | 5100.4  | 5136.1  | 5175.5  | 5203.6  | 5211.1  | 5211.1  |
| 22.5° | 5233.6  | 5256.2  | 5259.9  | 5271.2  | 5303.1  | 5340.6  | 5357.5  | 5361.2  |
| 25°   | 5451.3  | 5456.9  | 5441.9  | 5441.9  | 5462.6  | 5498.2  | 5515.1  | 5517.0  |
| 27.5° | 5732.8  | 5704.6  | 5667.1  | 5654.0  | 5667.1  | 5708.4  | 5729.0  | 5736.5  |
| 30°   | 6083.7  | 6016.1  | 5929.8  | 5882.9  | 5875.4  | 5929.8  | 5967.4  | 5973.0  |
| 32.5° | 6485.3  | 6387.7  | 6273.2  | 6177.5  | 6153.1  | 6186.9  | 6231.9  | 6230.1  |
| 35°   | 6961.9  | 6845.6  | 6706.7  | 6584.7  | 6528.4  | 6562.2  | 6626.0  | 6633.5  |
| 37.5° | 7511.7  | 7359.7  | 7200.2  | 7046.4  | 6958.2  | 6967.5  | 7035.1  | 7057.6  |
| 40°   | 8125.4  | 7928.3  | 7727.5  | 7521.1  | 7395.4  | 7371.0  | 7453.6  | 7466.7  |
| 42.5° | 8782.1  | 8528.8  | 8275.5  | 8020.3  | 7858.9  | 7821.4  | 7917.1  | 7911.4  |
| 45°   | 9482.1  | 9159.3  | 8862.8  | 8581.4  | 8390.0  | 8333.7  | 8412.5  | 8412.5  |
| 47.5° | 10234.6 | 9836.8  | 9484.0  | 9165.0  | 8956.7  | 8876.0  | 8951.0  | 8956.7  |
| 50°   | 11032.1 | 10609.9 | 10195.2 | 9840.5  | 9590.9  | 9487.7  | 9585.3  | 9600.3  |
| 52.5° | 11825.9 | 11414.9 | 10996.5 | 10591.1 | 10289.0 | 10163.3 | 10275.9 | 10324.7 |
| 55°   | 12630.9 | 12227.5 | 11827.8 | 11431.8 | 11073.4 | 10925.1 | 11045.2 | 11107.2 |
| 57.5° | 13481.0 | 13107.5 | 12726.6 | 12326.9 | 11981.6 | 11750.8 | 11878.4 | 11961.0 |
| 60°   | 14477.4 | 14158.4 | 13762.5 | 13321.5 | 12972.4 | 12737.9 | 12811.1 | 12884.2 |
| 62.5° | 15265.6 | 15389.4 | 15053.5 | 14543.1 | 14094.6 | 13794.4 | 13865.7 | 13942.6 |
| 65°   | 14884.6 | 16155.0 | 16453.4 | 15937.3 | 15316.2 | 14849.0 | 14818.9 | 14858.3 |
| 67.5° | 12441.4 | 14909.0 | 16708.6 | 17200.2 | 16680.5 | 16031.2 | 15911.1 | 15969.2 |
| 70°   | 8322.4  | 11396.2 | 14571.2 | 16935.7 | 17564.3 | 17312.8 | 17194.6 | 17230.3 |
| 72.5° | 3997.0  | 6637.3  | 9885.5  | 13028.7 | 14942.8 | 15821.0 | 16102.5 | 16239.5 |
| 75°   | 1461.8  | 2634.6  | 4764.5  | 7179.6  | 8667.7  | 10033.8 | 10925.1 | 11289.2 |
| 77.5° | 882.0   | 1064.0  | 1521.9  | 2291.2  | 2595.2  | 2904.9  | 2784.8  | 2844.8  |
| 80°   | 653.0   | 737.5   | 835.1   | 938.3   | 972.0   | 972.0   | 934.5   | 904.5   |
| 82.5° | 457.9   | 512.3   | 559.2   | 615.5   | 630.5   | 602.4   | 495.4   | 394.1   |
| 85°   | 294.6   | 319.0   | 339.7   | 375.3   | 365.9   | 349.0   | 234.6   | 208.3   |
| 87.5° | 135.1   | 153.9   | 161.4   | 178.3   | 170.8   | 163.3   | 116.3   | 97.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)