

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: P193557

Luminaire Tested: **GAN-AF-09-LED-U-RW-8030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193557  
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-09-LED-U-RW-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 44387 lumens  
Efficiency: N/A  
Efficacy: 88.6 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): 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

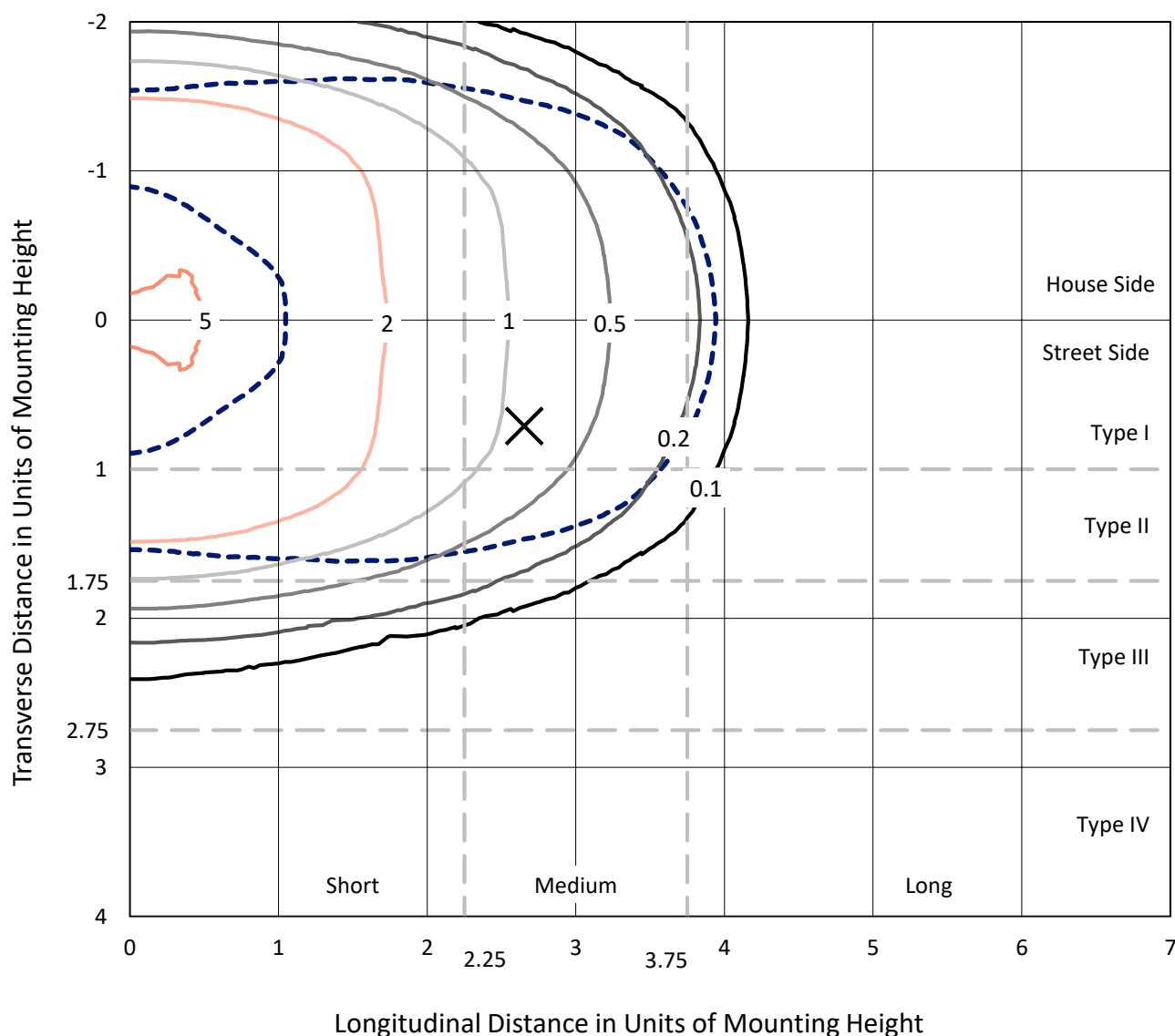


REPORT NUMBER: P193557

CATALOG NUMBER: GAN-AF-09-LED-U-RW-8030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

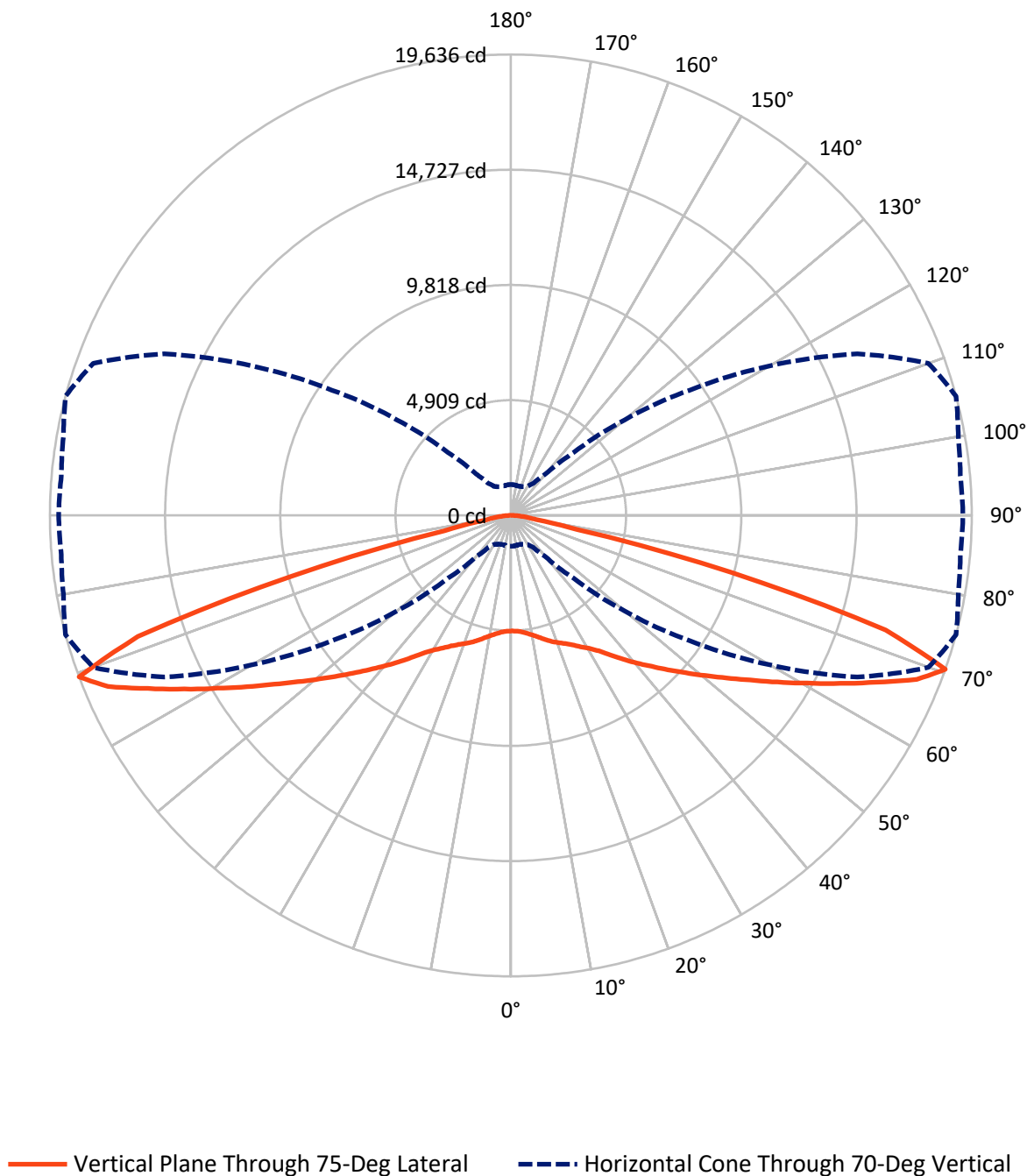


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P193557

CATALOG NUMBER: GAN-AF-09-LED-U-RW-8030

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22193.5  | 0.0    | 22193.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22193.5  | 0.0    | 22193.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 44387.0  | 0.0    | 44387.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 472.2   | 1.1       |
| 10°-20°   | 1467.2  | 3.3       |
| 20°-30°   | 2761.5  | 6.2       |
| 30°-40°   | 4890.1  | 11.0      |
| 40°-50°   | 8177.9  | 18.4      |
| 50°-60°   | 11395.9 | 25.7      |
| 60°-70°   | 10567.8 | 23.8      |
| 70°-80°   | 4211.6  | 9.5       |
| 80°-90°   | 442.7   | 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°    | 44387.0 | 100.0     |
| 0°-180°   | 44387.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193557

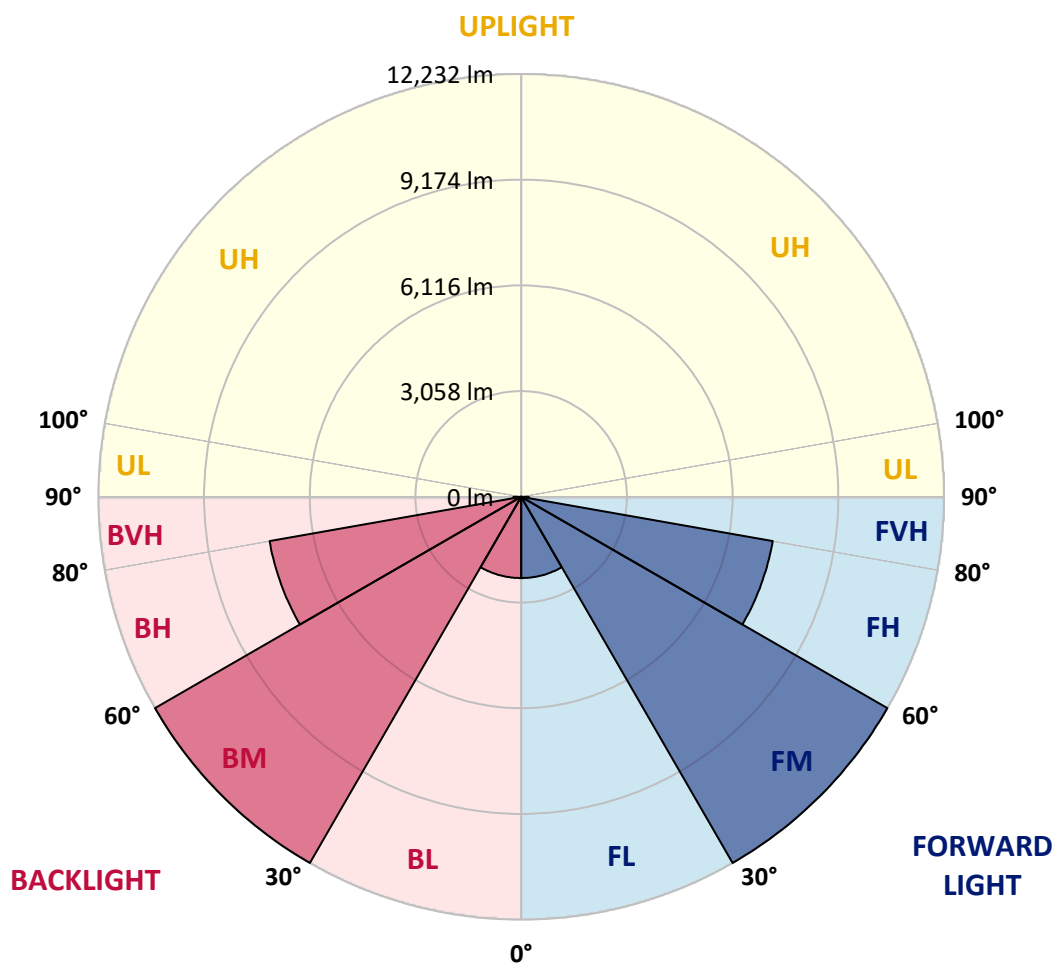
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2350.5  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 12231.9 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 7389.7  | 16.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 221.4   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2350.5  | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 12231.9 | 27.6      | B5                      |      |         |
| BH   | (60°-80°)   | 7389.7  | 16.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 221.4   | 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: P193557

CATALOG NUMBER: GAN-AF-09-LED-U-RW-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  |
| 2.5°  | 4915.2  | 4911.0  | 4915.2  | 4913.1  | 4917.3  | 4917.3  | 4921.5  | 4929.8  | 4929.8  | 4936.1  | 4934.0  |
| 5°    | 4866.9  | 4864.8  | 4871.1  | 4877.4  | 4883.7  | 4896.3  | 4908.9  | 4927.7  | 4942.4  | 4952.9  | 4963.4  |
| 7.5°  | 4772.5  | 4772.5  | 4780.9  | 4795.6  | 4810.3  | 4837.5  | 4866.9  | 4904.7  | 4942.4  | 4973.9  | 5001.2  |
| 10°   | 4694.9  | 4699.1  | 4709.6  | 4734.8  | 4759.9  | 4801.9  | 4841.7  | 4896.3  | 4948.7  | 5001.2  | 5043.1  |
| 12.5° | 4648.7  | 4655.0  | 4673.9  | 4711.7  | 4753.6  | 4810.3  | 4871.1  | 4940.3  | 4999.1  | 5062.0  | 5104.0  |
| 15°   | 4663.4  | 4667.6  | 4694.9  | 4741.0  | 4795.6  | 4866.9  | 4948.7  | 5030.5  | 5099.8  | 5166.9  | 5223.5  |
| 17.5° | 4745.2  | 4751.5  | 4783.0  | 4835.4  | 4892.1  | 4976.0  | 5064.1  | 5156.4  | 5242.4  | 5317.9  | 5387.2  |
| 20°   | 4892.1  | 4898.4  | 4938.2  | 4994.9  | 5062.0  | 5148.0  | 5236.1  | 5332.6  | 5429.1  | 5508.8  | 5586.5  |
| 22.5° | 5099.8  | 5110.3  | 5148.0  | 5204.7  | 5280.2  | 5372.5  | 5477.4  | 5580.2  | 5672.5  | 5745.9  | 5815.1  |
| 25°   | 5372.5  | 5395.6  | 5431.2  | 5494.2  | 5573.9  | 5657.8  | 5771.1  | 5876.0  | 5964.1  | 6033.3  | 6083.6  |
| 27.5° | 5758.5  | 5789.9  | 5817.2  | 5878.1  | 5955.7  | 6035.4  | 6148.7  | 6241.0  | 6324.9  | 6392.0  | 6429.8  |
| 30°   | 6270.3  | 6301.8  | 6329.1  | 6387.8  | 6459.1  | 6534.7  | 6641.7  | 6723.5  | 6775.9  | 6828.4  | 6826.3  |
| 32.5° | 6891.3  | 6924.9  | 6935.3  | 6998.3  | 7071.7  | 7153.5  | 7250.0  | 7296.2  | 7338.1  | 7344.4  | 7306.7  |
| 35°   | 7585.7  | 7602.5  | 7644.4  | 7728.3  | 7812.2  | 7879.4  | 7971.7  | 7994.7  | 7994.7  | 7963.3  | 7879.4  |
| 37.5° | 8347.2  | 8357.7  | 8416.4  | 8510.8  | 8596.8  | 8666.0  | 8729.0  | 8775.1  | 8752.1  | 8684.9  | 8544.4  |
| 40°   | 9182.1  | 9201.0  | 9284.9  | 9368.8  | 9465.3  | 9530.3  | 9597.5  | 9605.9  | 9582.8  | 9484.2  | 9293.3  |
| 42.5° | 9979.3  | 9996.0  | 10080.0 | 10212.1 | 10338.0 | 10428.2 | 10491.1 | 10503.7 | 10430.3 | 10340.1 | 10103.0 |
| 45°   | 10665.2 | 10709.3 | 10818.4 | 10973.6 | 11156.1 | 11284.1 | 11370.1 | 11405.8 | 11340.7 | 11223.3 | 10948.5 |
| 47.5° | 11208.6 | 11252.6 | 11407.9 | 11592.5 | 11819.0 | 12026.7 | 12169.4 | 12244.9 | 12228.1 | 12140.0 | 11840.0 |
| 50°   | 11607.2 | 11649.1 | 11816.9 | 12043.5 | 12307.8 | 12565.9 | 12809.2 | 12989.6 | 13052.6 | 13012.7 | 12737.9 |
| 52.5° | 11653.3 | 11722.5 | 11919.7 | 12223.9 | 12568.0 | 12920.4 | 13266.5 | 13572.8 | 13780.5 | 13812.0 | 13608.5 |
| 55°   | 11009.3 | 11078.5 | 11351.2 | 11802.3 | 12314.1 | 12888.9 | 13442.7 | 13958.8 | 14367.9 | 14577.7 | 14470.7 |
| 57.5° | 9490.5  | 9614.2  | 9901.6  | 10430.3 | 11183.4 | 12043.5 | 12926.7 | 13843.4 | 14676.3 | 15232.2 | 15339.2 |
| 60°   | 7273.1  | 7419.9  | 7709.4  | 8271.7  | 9110.8  | 10136.6 | 11315.6 | 12670.8 | 14141.3 | 15391.6 | 16138.4 |
| 62.5° | 4665.5  | 4804.0  | 5108.2  | 5596.9  | 6280.8  | 7392.7  | 8657.6  | 10266.7 | 12242.8 | 14216.8 | 15995.8 |
| 65°   | 2397.8  | 2473.3  | 2632.7  | 2928.5  | 3461.4  | 4292.1  | 5427.0  | 7031.8  | 9291.2  | 11726.7 | 14298.7 |
| 67.5° | 1518.8  | 1533.5  | 1569.2  | 1611.1  | 1747.5  | 2034.9  | 2563.5  | 3564.2  | 5422.8  | 7963.3  | 10973.6 |
| 70°   | 1313.2  | 1313.2  | 1296.4  | 1290.2  | 1306.9  | 1346.8  | 1428.6  | 1661.5  | 2288.7  | 3780.2  | 6329.1  |
| 72.5° | 1202.0  | 1189.5  | 1160.1  | 1137.0  | 1132.8  | 1132.8  | 1149.6  | 1185.3  | 1286.0  | 1539.8  | 2477.5  |
| 75°   | 1107.6  | 1072.0  | 1032.1  | 1004.8  | 994.4   | 983.9   | 981.8   | 988.1   | 1009.0  | 1048.9  | 1183.2  |
| 77.5° | 992.3   | 946.1   | 900.0   | 872.7   | 860.1   | 845.4   | 832.8   | 818.1   | 807.7   | 820.2   | 879.0   |
| 80°   | 853.8   | 801.4   | 765.7   | 748.9   | 736.3   | 715.4   | 688.1   | 662.9   | 639.8   | 635.6   | 671.3   |
| 82.5° | 688.1   | 627.2   | 629.3   | 635.6   | 612.6   | 583.2   | 553.8   | 526.5   | 486.7   | 465.7   | 486.7   |
| 85°   | 555.9   | 524.5   | 509.8   | 549.6   | 516.1   | 472.0   | 425.9   | 377.6   | 314.7   | 264.3   | 287.4   |
| 87.5° | 216.1   | 216.1   | 323.1   | 497.2   | 446.8   | 365.0   | 312.6   | 266.4   | 165.7   | 128.0   | 130.1   |
| 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: P193557

CATALOG NUMBER: GAN-AF-09-LED-U-RW-8030

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  | 4923.6  |
| 2.5°  | 4931.9  | 4936.1  | 4934.0  | 4931.9  | 4931.9  | 4929.8  | 4931.9  | 4931.9  |
| 5°    | 4969.7  | 4980.2  | 4980.2  | 4984.4  | 4984.4  | 4986.5  | 4988.6  | 4986.5  |
| 7.5°  | 5026.3  | 5045.2  | 5057.8  | 5072.5  | 5074.6  | 5076.7  | 5080.9  | 5076.7  |
| 10°   | 5083.0  | 5120.7  | 5148.0  | 5175.3  | 5187.9  | 5192.1  | 5196.3  | 5196.3  |
| 12.5° | 5154.3  | 5206.8  | 5255.0  | 5303.3  | 5326.3  | 5338.9  | 5338.9  | 5347.3  |
| 15°   | 5271.8  | 5324.2  | 5380.9  | 5445.9  | 5485.8  | 5506.7  | 5513.0  | 5513.0  |
| 17.5° | 5437.5  | 5483.7  | 5531.9  | 5594.9  | 5645.2  | 5672.5  | 5678.8  | 5676.7  |
| 20°   | 5630.5  | 5674.6  | 5701.8  | 5741.7  | 5785.8  | 5817.2  | 5825.6  | 5825.6  |
| 22.5° | 5850.8  | 5876.0  | 5880.2  | 5892.7  | 5928.4  | 5970.4  | 5989.2  | 5993.4  |
| 25°   | 6094.1  | 6100.4  | 6083.6  | 6083.6  | 6106.7  | 6146.6  | 6165.5  | 6167.6  |
| 27.5° | 6408.8  | 6377.3  | 6335.4  | 6320.7  | 6335.4  | 6381.5  | 6404.6  | 6413.0  |
| 30°   | 6801.1  | 6725.6  | 6629.1  | 6576.6  | 6568.2  | 6629.1  | 6671.0  | 6677.3  |
| 32.5° | 7250.0  | 7140.9  | 7013.0  | 6906.0  | 6878.7  | 6916.5  | 6966.8  | 6964.7  |
| 35°   | 7782.9  | 7652.8  | 7497.6  | 7361.2  | 7298.3  | 7336.0  | 7407.4  | 7415.7  |
| 37.5° | 8397.5  | 8227.6  | 8049.3  | 7877.3  | 7778.7  | 7789.2  | 7864.7  | 7889.9  |
| 40°   | 9083.5  | 8863.2  | 8638.8  | 8408.0  | 8267.5  | 8240.2  | 8332.5  | 8347.2  |
| 42.5° | 9817.7  | 9534.5  | 9251.3  | 8966.0  | 8785.6  | 8743.7  | 8850.6  | 8844.4  |
| 45°   | 10600.2 | 10239.4 | 9907.9  | 9593.3  | 9379.3  | 9316.4  | 9404.5  | 9404.5  |
| 47.5° | 11441.4 | 10996.7 | 10602.3 | 10245.7 | 10012.8 | 9922.6  | 10006.5 | 10012.8 |
| 50°   | 12333.0 | 11861.0 | 11397.4 | 11000.9 | 10721.9 | 10606.5 | 10715.6 | 10732.4 |
| 52.5° | 13220.4 | 12761.0 | 12293.1 | 11840.0 | 11502.3 | 11361.7 | 11487.6 | 11542.1 |
| 55°   | 14120.3 | 13669.3 | 13222.5 | 12779.8 | 12379.2 | 12213.4 | 12347.7 | 12416.9 |
| 57.5° | 15070.6 | 14653.2 | 14227.3 | 13780.5 | 13394.5 | 13136.5 | 13279.1 | 13371.4 |
| 60°   | 16184.6 | 15828.0 | 15385.3 | 14892.3 | 14502.1 | 14239.9 | 14321.7 | 14403.5 |
| 62.5° | 17065.7 | 17204.1 | 16828.6 | 16258.0 | 15756.6 | 15421.0 | 15500.7 | 15586.7 |
| 65°   | 16639.8 | 18060.0 | 18393.6 | 17816.7 | 17122.3 | 16599.9 | 16566.4 | 16610.4 |
| 67.5° | 13908.5 | 16667.1 | 18678.9 | 19228.5 | 18647.4 | 17921.6 | 17787.3 | 17852.3 |
| 70°   | 9303.8  | 12740.0 | 16289.5 | 18932.7 | 19635.5 | 19354.4 | 19222.2 | 19262.1 |
| 72.5° | 4468.3  | 7419.9  | 11051.2 | 14565.1 | 16704.8 | 17686.6 | 18001.3 | 18154.4 |
| 75°   | 1634.2  | 2945.3  | 5326.3  | 8026.2  | 9689.8  | 11217.0 | 12213.4 | 12620.4 |
| 77.5° | 986.0   | 1189.5  | 1701.3  | 2561.4  | 2901.3  | 3247.4  | 3113.1  | 3180.3  |
| 80°   | 730.0   | 824.4   | 933.5   | 1048.9  | 1086.7  | 1086.7  | 1044.7  | 1011.1  |
| 82.5° | 511.9   | 572.7   | 625.1   | 688.1   | 704.9   | 673.4   | 553.8   | 440.5   |
| 85°   | 329.4   | 356.6   | 379.7   | 419.6   | 409.1   | 390.2   | 262.2   | 232.9   |
| 87.5° | 151.0   | 172.0   | 180.4   | 199.3   | 190.9   | 182.5   | 130.1   | 109.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)