

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: P194347

Luminaire Tested: **GAN-AF-09-LED-U-RW-7060-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194347
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-7060-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43949 lumens
Efficiency: N/A
Efficacy: 117.5 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): 374
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

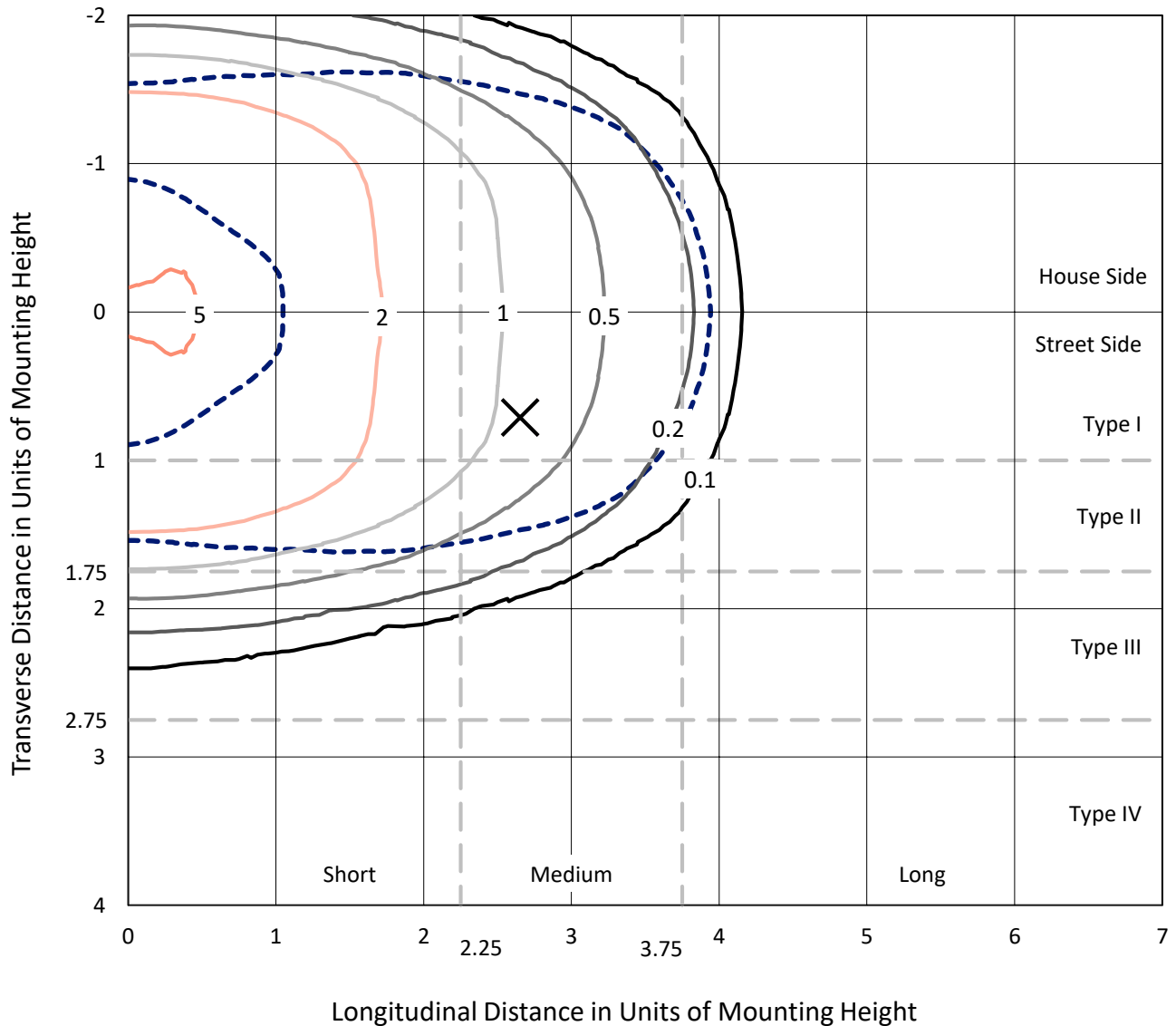


REPORT NUMBER: P194347

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7060-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

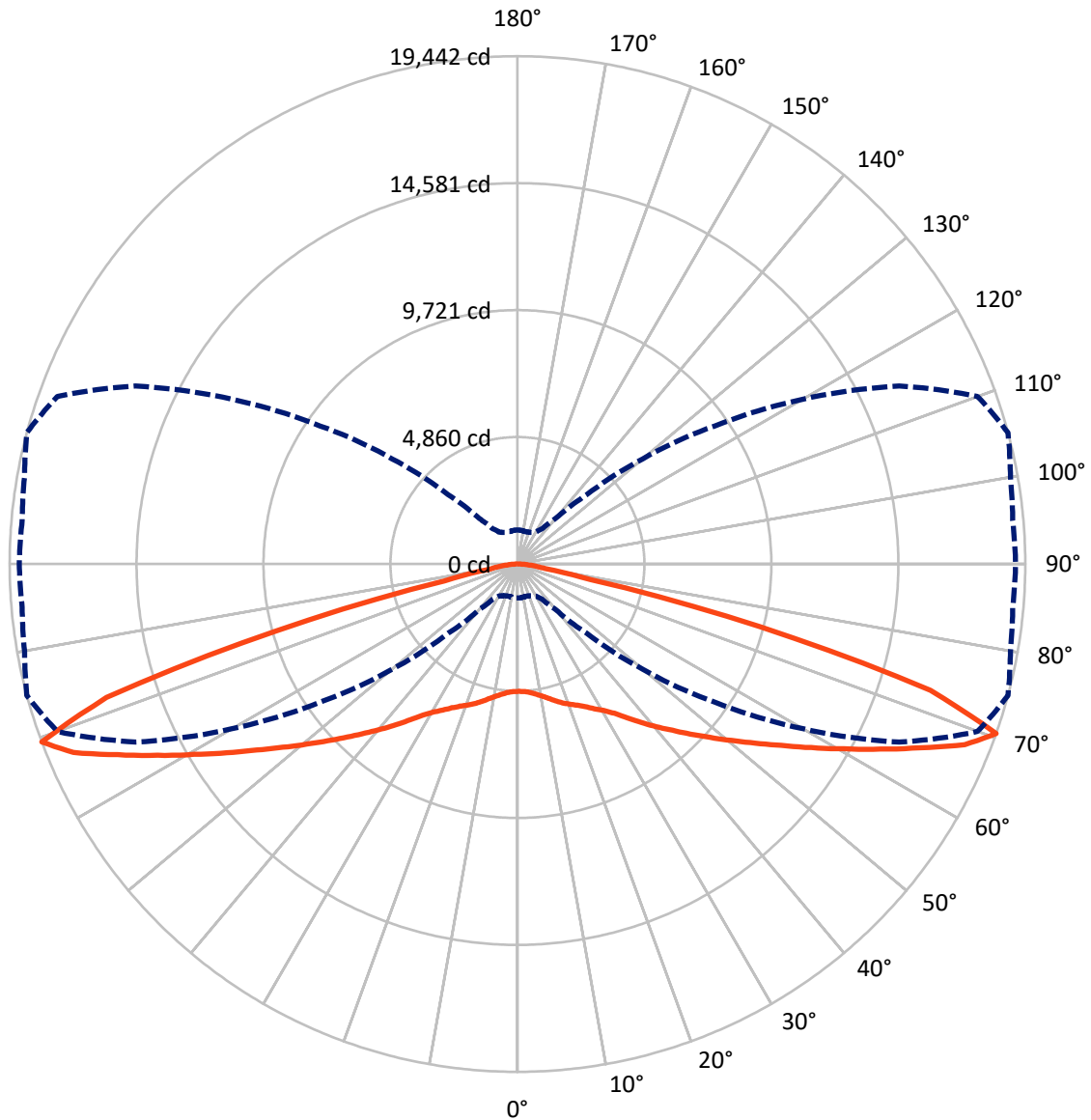


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P194347

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7060-800-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P194347

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7060-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21974.5 | 0.0 | 21974.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 21974.5 | 0.0 | 21974.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 43949.0 | 0.0 | 43949.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 467.5 | 1.1 |
| 10°-20° | 1452.7 | 3.3 |
| 20°-30° | 2734.3 | 6.2 |
| 30°-40° | 4841.9 | 11.0 |
| 40°-50° | 8097.2 | 18.4 |
| 50°-60° | 11283.4 | 25.7 |
| 60°-70° | 10463.6 | 23.8 |
| 70°-80° | 4170.0 | 9.5 |
| 80°-90° | 438.3 | 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° | 43949.0 | 100.0 |
| 0°-180° | 43949.0 | 100.0 |



REPORT NUMBER: P194347

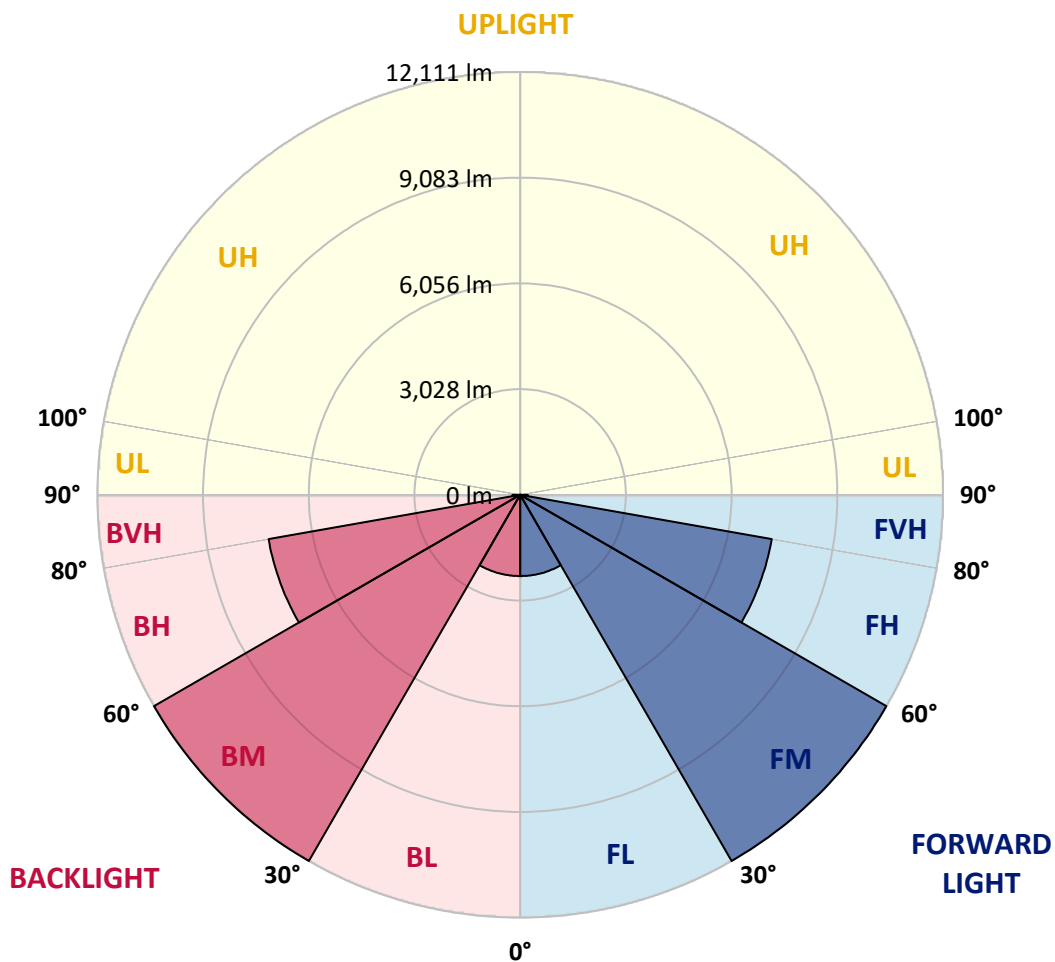
CATALOG NUMBER: GAN-AF-09-LED-U-RW-7060-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2327.3 | 5.3 | | | |
| FM | (30°-60°) | 12111.2 | 27.6 | | | |
| FH | (60°-80°) | 7316.8 | 16.6 | | | G3/7500 |
| FVH | (80°-90°) | 219.2 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 2327.3 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 12111.2 | 27.6 | B5 | | |
| BH | (60°-80°) | 7316.8 | 16.6 | B5 | | G3/7500 |
| BVH | (80°-90°) | 219.2 | 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: P194347

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7060-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 |
| 2.5° | 4866.7 | 4862.5 | 4866.7 | 4864.6 | 4868.7 | 4868.7 | 4872.9 | 4881.2 | 4881.2 | 4887.4 | 4885.4 |
| 5° | 4818.9 | 4816.8 | 4823.0 | 4829.3 | 4835.5 | 4848.0 | 4860.4 | 4879.1 | 4893.7 | 4904.0 | 4914.4 |
| 7.5° | 4725.4 | 4725.4 | 4733.7 | 4748.3 | 4762.8 | 4789.8 | 4818.9 | 4856.3 | 4893.7 | 4924.8 | 4951.8 |
| 10° | 4648.6 | 4652.7 | 4663.1 | 4688.0 | 4713.0 | 4754.5 | 4794.0 | 4848.0 | 4899.9 | 4951.8 | 4993.4 |
| 12.5° | 4602.9 | 4609.1 | 4627.8 | 4665.2 | 4706.7 | 4762.8 | 4823.0 | 4891.6 | 4949.7 | 5012.1 | 5053.6 |
| 15° | 4617.4 | 4621.6 | 4648.6 | 4694.3 | 4748.3 | 4818.9 | 4899.9 | 4980.9 | 5049.4 | 5115.9 | 5172.0 |
| 17.5° | 4698.4 | 4704.6 | 4735.8 | 4787.7 | 4843.8 | 4926.9 | 5014.1 | 5105.5 | 5190.7 | 5265.5 | 5334.0 |
| 20° | 4843.8 | 4850.0 | 4889.5 | 4945.6 | 5012.1 | 5097.2 | 5184.5 | 5280.0 | 5375.6 | 5454.5 | 5531.3 |
| 22.5° | 5049.4 | 5059.8 | 5097.2 | 5153.3 | 5228.1 | 5319.5 | 5423.3 | 5525.1 | 5616.5 | 5689.2 | 5757.7 |
| 25° | 5319.5 | 5342.3 | 5377.6 | 5439.9 | 5518.9 | 5602.0 | 5714.1 | 5818.0 | 5905.2 | 5973.8 | 6023.6 |
| 27.5° | 5701.7 | 5732.8 | 5759.8 | 5820.1 | 5896.9 | 5975.8 | 6088.0 | 6179.4 | 6262.5 | 6328.9 | 6366.3 |
| 30° | 6208.5 | 6239.6 | 6266.6 | 6324.8 | 6395.4 | 6470.2 | 6576.1 | 6657.1 | 6709.1 | 6761.0 | 6758.9 |
| 32.5° | 6823.3 | 6856.5 | 6866.9 | 6929.2 | 7001.9 | 7082.9 | 7178.5 | 7224.2 | 7265.7 | 7271.9 | 7234.6 |
| 35° | 7510.8 | 7527.4 | 7569.0 | 7652.1 | 7735.1 | 7801.6 | 7893.0 | 7915.9 | 7915.9 | 7884.7 | 7801.6 |
| 37.5° | 8264.8 | 8275.2 | 8333.4 | 8426.8 | 8512.0 | 8580.5 | 8642.8 | 8688.5 | 8665.7 | 8599.2 | 8460.1 |
| 40° | 9091.5 | 9110.2 | 9193.3 | 9276.4 | 9371.9 | 9436.3 | 9502.8 | 9511.1 | 9488.2 | 9390.6 | 9201.6 |
| 42.5° | 9880.8 | 9897.4 | 9980.5 | 10111.4 | 10236.0 | 10325.3 | 10387.6 | 10400.1 | 10327.4 | 10238.1 | 10003.3 |
| 45° | 10560.0 | 10603.6 | 10711.6 | 10865.3 | 11046.1 | 11172.8 | 11257.9 | 11293.2 | 11228.8 | 11112.5 | 10840.4 |
| 47.5° | 11098.0 | 11141.6 | 11295.3 | 11478.1 | 11702.4 | 11908.0 | 12049.3 | 12124.1 | 12107.5 | 12020.2 | 11723.2 |
| 50° | 11492.6 | 11534.2 | 11700.3 | 11924.7 | 12186.4 | 12441.9 | 12682.8 | 12861.4 | 12923.8 | 12884.3 | 12612.2 |
| 52.5° | 11538.3 | 11606.9 | 11802.1 | 12103.3 | 12443.9 | 12792.9 | 13135.6 | 13438.9 | 13644.5 | 13675.7 | 13474.2 |
| 55° | 10900.7 | 10969.2 | 11239.2 | 11685.8 | 12192.6 | 12761.7 | 13310.1 | 13821.1 | 14226.1 | 14433.8 | 14327.9 |
| 57.5° | 9396.8 | 9519.4 | 9803.9 | 10327.4 | 11073.1 | 11924.7 | 12799.1 | 13706.8 | 14531.4 | 15081.9 | 15187.8 |
| 60° | 7201.3 | 7346.7 | 7633.4 | 8190.0 | 9020.9 | 10036.6 | 11203.9 | 12545.7 | 14001.8 | 15239.7 | 15979.2 |
| 62.5° | 4619.5 | 4756.6 | 5057.8 | 5541.7 | 6218.9 | 7319.7 | 8572.2 | 10165.4 | 12122.0 | 14076.5 | 15837.9 |
| 65° | 2374.1 | 2448.9 | 2606.8 | 2899.6 | 3427.2 | 4249.8 | 5373.5 | 6962.5 | 9199.5 | 11611.0 | 14157.6 |
| 67.5° | 1503.8 | 1518.4 | 1553.7 | 1595.2 | 1730.2 | 2014.8 | 2538.2 | 3529.0 | 5369.3 | 7884.7 | 10865.3 |
| 70° | 1300.3 | 1300.3 | 1283.7 | 1277.4 | 1294.0 | 1333.5 | 1414.5 | 1645.1 | 2266.1 | 3742.9 | 6266.6 |
| 72.5° | 1190.2 | 1177.7 | 1148.6 | 1125.8 | 1121.6 | 1121.6 | 1138.3 | 1173.6 | 1273.3 | 1524.6 | 2453.1 |
| 75° | 1096.7 | 1061.4 | 1021.9 | 994.9 | 984.5 | 974.2 | 972.1 | 978.3 | 999.1 | 1038.6 | 1171.5 |
| 77.5° | 982.5 | 936.8 | 891.1 | 864.1 | 851.6 | 837.1 | 824.6 | 810.1 | 799.7 | 812.1 | 870.3 |
| 80° | 845.4 | 793.5 | 758.1 | 741.5 | 729.1 | 708.3 | 681.3 | 656.4 | 633.5 | 629.4 | 664.7 |
| 82.5° | 681.3 | 621.1 | 623.1 | 629.4 | 606.5 | 577.4 | 548.4 | 521.4 | 481.9 | 461.1 | 481.9 |
| 85° | 550.4 | 519.3 | 504.7 | 544.2 | 511.0 | 467.3 | 421.7 | 373.9 | 311.6 | 261.7 | 284.6 |
| 87.5° | 213.9 | 213.9 | 319.9 | 492.3 | 442.4 | 361.4 | 309.5 | 263.8 | 164.1 | 126.7 | 128.8 |
| 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: P194347

CATALOG NUMBER: GAN-AF-09-LED-U-RW-7060-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 | 4875.0 |
| 2.5° | 4883.3 | 4887.4 | 4885.4 | 4883.3 | 4883.3 | 4881.2 | 4883.3 | 4883.3 |
| 5° | 4920.7 | 4931.1 | 4931.1 | 4935.2 | 4935.2 | 4937.3 | 4939.4 | 4937.3 |
| 7.5° | 4976.7 | 4995.4 | 5007.9 | 5022.4 | 5024.5 | 5026.6 | 5030.8 | 5026.6 |
| 10° | 5032.8 | 5070.2 | 5097.2 | 5124.2 | 5136.7 | 5140.8 | 5145.0 | 5145.0 |
| 12.5° | 5103.4 | 5155.4 | 5203.2 | 5250.9 | 5273.8 | 5286.2 | 5286.2 | 5294.5 |
| 15° | 5219.8 | 5271.7 | 5327.8 | 5392.2 | 5431.6 | 5452.4 | 5458.6 | 5458.6 |
| 17.5° | 5383.9 | 5429.6 | 5477.3 | 5539.6 | 5589.5 | 5616.5 | 5622.7 | 5620.6 |
| 20° | 5575.0 | 5618.6 | 5645.6 | 5685.0 | 5728.7 | 5759.8 | 5768.1 | 5768.1 |
| 22.5° | 5793.0 | 5818.0 | 5822.1 | 5834.6 | 5869.9 | 5911.4 | 5930.1 | 5934.3 |
| 25° | 6034.0 | 6040.2 | 6023.6 | 6023.6 | 6046.5 | 6085.9 | 6104.6 | 6106.7 |
| 27.5° | 6345.6 | 6314.4 | 6272.9 | 6258.3 | 6272.9 | 6318.6 | 6341.4 | 6349.7 |
| 30° | 6734.0 | 6659.2 | 6563.7 | 6511.7 | 6503.4 | 6563.7 | 6605.2 | 6611.4 |
| 32.5° | 7178.5 | 7070.5 | 6943.8 | 6837.8 | 6810.8 | 6848.2 | 6898.1 | 6896.0 |
| 35° | 7706.1 | 7577.3 | 7423.6 | 7288.6 | 7226.3 | 7263.6 | 7334.3 | 7342.6 |
| 37.5° | 8314.7 | 8146.4 | 7969.9 | 7799.5 | 7701.9 | 7712.3 | 7787.1 | 7812.0 |
| 40° | 8993.9 | 8775.8 | 8553.5 | 8325.0 | 8185.9 | 8158.9 | 8250.3 | 8264.8 |
| 42.5° | 9720.9 | 9440.4 | 9160.0 | 8877.6 | 8698.9 | 8657.4 | 8763.3 | 8757.1 |
| 45° | 10495.6 | 10138.4 | 9810.2 | 9498.6 | 9286.7 | 9224.4 | 9311.7 | 9311.7 |
| 47.5° | 11328.5 | 10888.2 | 10497.7 | 10144.6 | 9914.0 | 9824.7 | 9907.8 | 9914.0 |
| 50° | 12211.3 | 11744.0 | 11284.9 | 10892.3 | 10616.1 | 10501.8 | 10609.9 | 10626.5 |
| 52.5° | 13089.9 | 12635.0 | 12171.8 | 11723.2 | 11388.8 | 11249.6 | 11374.2 | 11428.2 |
| 55° | 13981.0 | 13534.4 | 13092.0 | 12653.7 | 12257.0 | 12092.9 | 12225.8 | 12294.4 |
| 57.5° | 14921.9 | 14508.6 | 14086.9 | 13644.5 | 13262.3 | 13006.8 | 13148.1 | 13239.5 |
| 60° | 16024.9 | 15671.8 | 15233.5 | 14745.4 | 14359.0 | 14099.4 | 14180.4 | 14261.4 |
| 62.5° | 16897.3 | 17034.3 | 16662.5 | 16097.6 | 15601.1 | 15268.8 | 15347.7 | 15432.9 |
| 65° | 16475.6 | 17881.8 | 18212.1 | 17640.9 | 16953.3 | 16436.1 | 16402.9 | 16446.5 |
| 67.5° | 13771.2 | 16502.6 | 18494.6 | 19038.8 | 18463.4 | 17744.7 | 17611.8 | 17676.2 |
| 70° | 9212.0 | 12614.3 | 16128.7 | 18745.9 | 19441.7 | 19163.4 | 19032.5 | 19072.0 |
| 72.5° | 4424.2 | 7346.7 | 10942.2 | 14421.3 | 16540.0 | 17512.1 | 17823.6 | 17975.3 |
| 75° | 1618.1 | 2916.3 | 5273.8 | 7947.0 | 9594.2 | 11106.3 | 12092.9 | 12495.9 |
| 77.5° | 976.2 | 1177.7 | 1684.5 | 2536.1 | 2872.6 | 3215.4 | 3082.4 | 3148.9 |
| 80° | 722.8 | 816.3 | 924.3 | 1038.6 | 1075.9 | 1075.9 | 1034.4 | 1001.2 |
| 82.5° | 506.8 | 567.0 | 619.0 | 681.3 | 697.9 | 666.8 | 548.4 | 436.2 |
| 85° | 326.1 | 353.1 | 376.0 | 415.4 | 405.0 | 386.3 | 259.6 | 230.6 |
| 87.5° | 149.6 | 170.3 | 178.6 | 197.3 | 189.0 | 180.7 | 128.8 | 108.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)