

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: P191796

Luminaire Tested: **GAN-AF-08-LED-U-RW-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191796
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-08-LED-U-RW-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32129 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 257
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

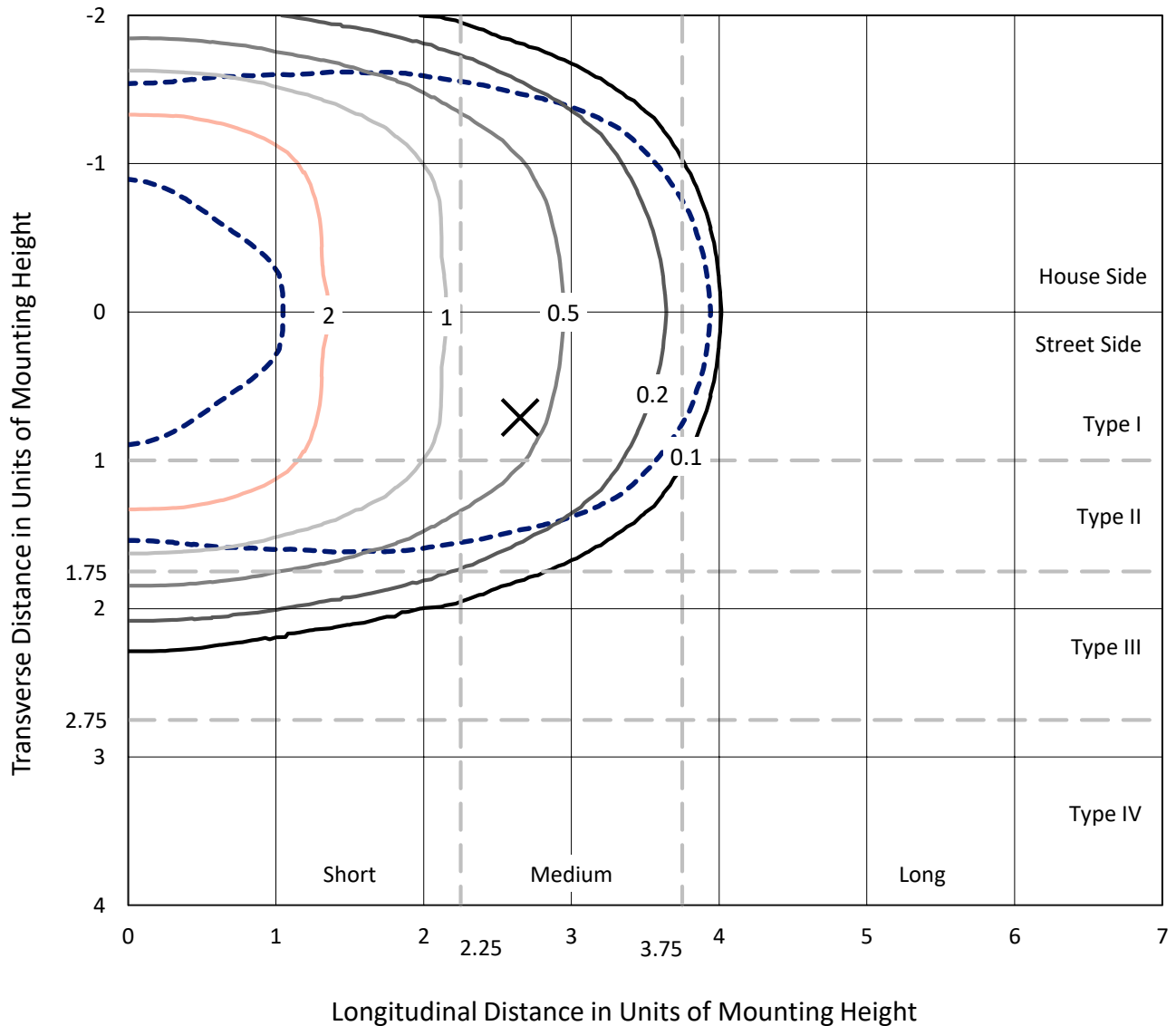


REPORT NUMBER: P191796

CATALOG NUMBER: GAN-AF-08-LED-U-RW-7050-600-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

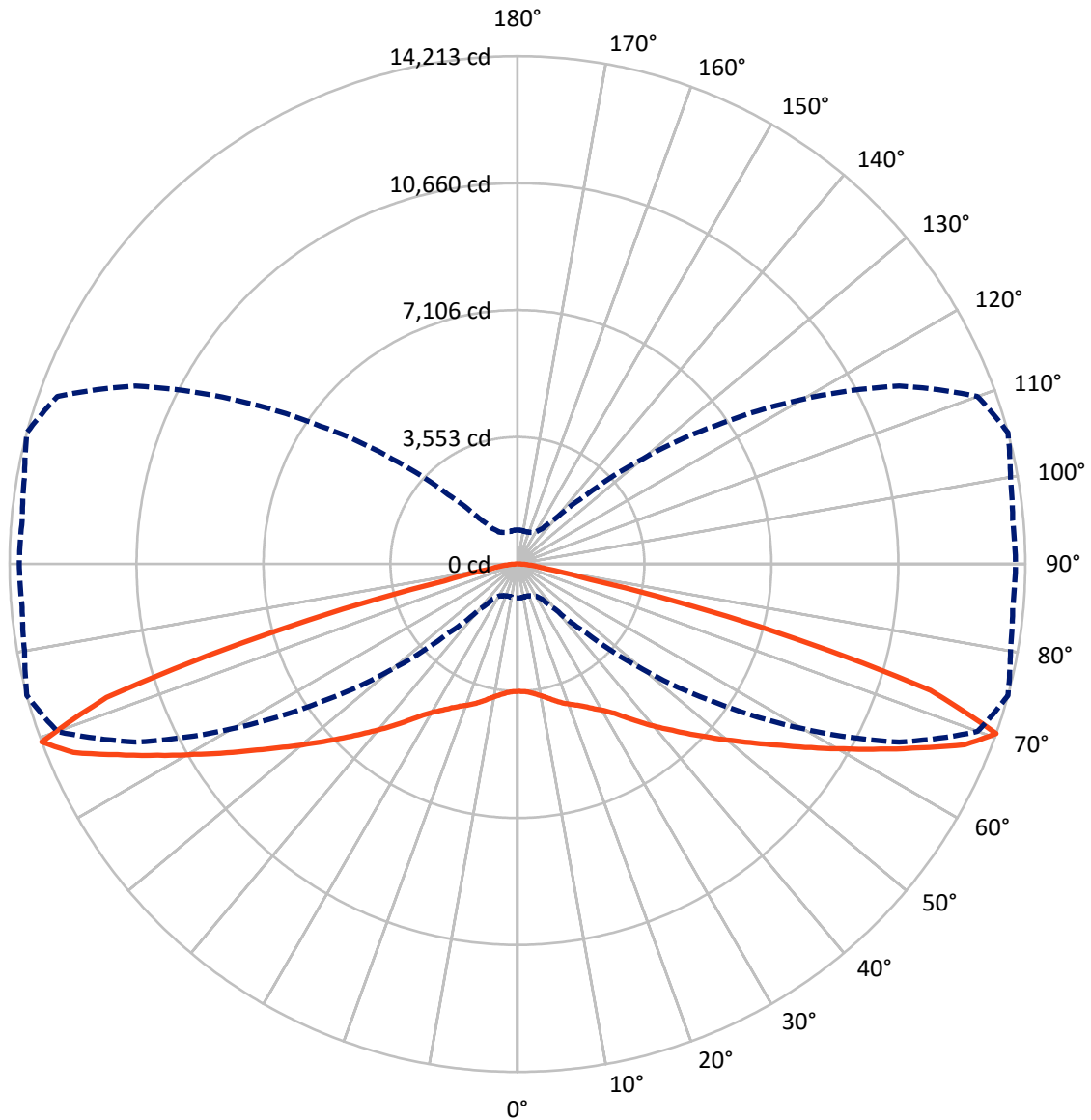


Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P191796

CATALOG NUMBER: GAN-AF-08-LED-U-RW-7050-600-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191796

CATALOG NUMBER: GAN-AF-08-LED-U-RW-7050-600-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16064.5 | 0.0 | 16064.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16064.5 | 0.0 | 16064.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32129.0 | 0.0 | 32129.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 341.8 | 1.1 |
| 10°-20° | 1062.0 | 3.3 |
| 20°-30° | 1998.9 | 6.2 |
| 30°-40° | 3539.7 | 11.0 |
| 40°-50° | 5919.5 | 18.4 |
| 50°-60° | 8248.8 | 25.7 |
| 60°-70° | 7649.4 | 23.8 |
| 70°-80° | 3048.5 | 9.5 |
| 80°-90° | 320.4 | 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° | 32129.0 | 100.0 |
| 0°-180° | 32129.0 | 100.0 |



REPORT NUMBER: P191796

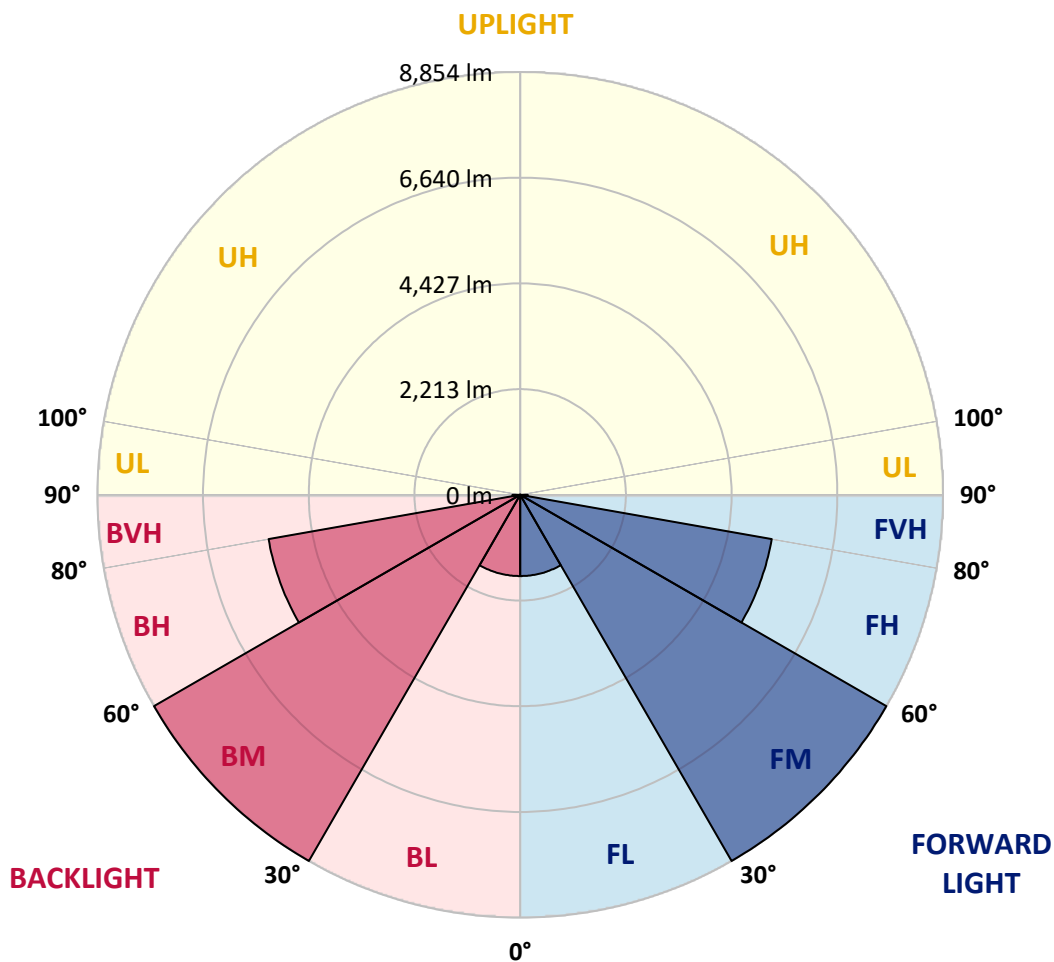
CATALOG NUMBER: GAN-AF-08-LED-U-RW-7050-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1701.4 | 5.3 | | | |
| FM | (30°-60°) | 8853.9 | 27.6 | | | |
| FH | (60°-80°) | 5349.0 | 16.6 | | | G3/7500 |
| FVH | (80°-90°) | 160.2 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1701.4 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 8853.9 | 27.6 | B5 | | |
| BH | (60°-80°) | 5349.0 | 16.6 | B5 | | G3/7500 |
| BVH | (80°-90°) | 160.2 | 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: P191796

CATALOG NUMBER: GAN-AF-08-LED-U-RW-7050-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 |
| 2.5° | 3557.8 | 3554.7 | 3557.8 | 3556.3 | 3559.3 | 3559.3 | 3562.3 | 3568.4 | 3568.4 | 3573.0 | 3571.4 |
| 5° | 3522.9 | 3521.3 | 3525.9 | 3530.4 | 3535.0 | 3544.1 | 3553.2 | 3566.9 | 3577.5 | 3585.1 | 3592.7 |
| 7.5° | 3454.5 | 3454.5 | 3460.6 | 3471.2 | 3481.9 | 3501.6 | 3522.9 | 3550.2 | 3577.5 | 3600.3 | 3620.0 |
| 10° | 3398.3 | 3401.4 | 3409.0 | 3427.2 | 3445.4 | 3475.8 | 3504.6 | 3544.1 | 3582.1 | 3620.0 | 3650.4 |
| 12.5° | 3364.9 | 3369.5 | 3383.2 | 3410.5 | 3440.9 | 3481.9 | 3525.9 | 3576.0 | 3618.5 | 3664.1 | 3694.4 |
| 15° | 3375.6 | 3378.6 | 3398.3 | 3431.7 | 3471.2 | 3522.9 | 3582.1 | 3641.3 | 3691.4 | 3740.0 | 3781.0 |
| 17.5° | 3434.8 | 3439.3 | 3462.1 | 3500.1 | 3541.1 | 3601.8 | 3665.6 | 3732.4 | 3794.7 | 3849.3 | 3899.4 |
| 20° | 3541.1 | 3545.6 | 3574.5 | 3615.5 | 3664.1 | 3726.3 | 3790.1 | 3860.0 | 3929.8 | 3987.5 | 4043.7 |
| 22.5° | 3691.4 | 3699.0 | 3726.3 | 3767.3 | 3822.0 | 3888.8 | 3964.7 | 4039.1 | 4105.9 | 4159.1 | 4209.2 |
| 25° | 3888.8 | 3905.5 | 3931.3 | 3976.9 | 4034.6 | 4095.3 | 4177.3 | 4253.2 | 4317.0 | 4367.1 | 4403.6 |
| 27.5° | 4168.2 | 4191.0 | 4210.7 | 4254.8 | 4310.9 | 4368.6 | 4450.6 | 4517.5 | 4578.2 | 4626.8 | 4654.1 |
| 30° | 4538.7 | 4561.5 | 4581.2 | 4623.7 | 4675.4 | 4730.0 | 4807.5 | 4866.7 | 4904.7 | 4942.6 | 4941.1 |
| 32.5° | 4988.2 | 5012.5 | 5020.1 | 5065.6 | 5118.8 | 5178.0 | 5247.8 | 5281.2 | 5311.6 | 5316.2 | 5288.8 |
| 35° | 5490.8 | 5502.9 | 5533.3 | 5594.1 | 5654.8 | 5703.4 | 5770.2 | 5786.9 | 5786.9 | 5764.1 | 5703.4 |
| 37.5° | 6042.0 | 6049.6 | 6092.1 | 6160.4 | 6222.7 | 6272.8 | 6318.4 | 6351.8 | 6335.1 | 6286.5 | 6184.7 |
| 40° | 6646.4 | 6660.0 | 6720.8 | 6781.5 | 6851.3 | 6898.4 | 6947.0 | 6953.1 | 6936.4 | 6865.0 | 6726.8 |
| 42.5° | 7223.4 | 7235.5 | 7296.3 | 7391.9 | 7483.0 | 7548.3 | 7593.9 | 7603.0 | 7549.8 | 7484.6 | 7313.0 |
| 45° | 7719.9 | 7751.8 | 7830.8 | 7943.1 | 8075.2 | 8167.9 | 8230.1 | 8255.9 | 8208.9 | 8123.8 | 7924.9 |
| 47.5° | 8113.2 | 8145.1 | 8257.5 | 8391.1 | 8555.1 | 8705.4 | 8808.7 | 8863.3 | 8851.2 | 8787.4 | 8570.3 |
| 50° | 8401.7 | 8432.1 | 8553.6 | 8717.6 | 8908.9 | 9095.6 | 9271.8 | 9402.4 | 9447.9 | 9419.1 | 9220.2 |
| 52.5° | 8435.1 | 8485.2 | 8628.0 | 8848.1 | 9097.2 | 9352.3 | 9602.8 | 9824.5 | 9974.8 | 9997.6 | 9850.3 |
| 55° | 7968.9 | 8019.1 | 8216.5 | 8542.9 | 8913.4 | 9329.5 | 9730.4 | 10103.9 | 10400.0 | 10551.9 | 10474.4 |
| 57.5° | 6869.6 | 6959.2 | 7167.2 | 7549.8 | 8095.0 | 8717.6 | 9356.8 | 10020.4 | 10623.2 | 11025.6 | 11103.1 |
| 60° | 5264.5 | 5370.8 | 5580.4 | 5987.3 | 6594.7 | 7337.3 | 8190.6 | 9171.6 | 10236.0 | 11141.0 | 11681.6 |
| 62.5° | 3377.1 | 3477.3 | 3697.5 | 4051.3 | 4546.3 | 5351.1 | 6266.7 | 7431.4 | 8861.8 | 10290.7 | 11578.4 |
| 65° | 1735.6 | 1790.3 | 1905.7 | 2119.8 | 2505.5 | 3106.8 | 3928.3 | 5089.9 | 6725.3 | 8488.3 | 10349.9 |
| 67.5° | 1099.4 | 1110.0 | 1135.8 | 1166.2 | 1264.9 | 1472.9 | 1855.6 | 2579.9 | 3925.3 | 5764.1 | 7943.1 |
| 70° | 950.6 | 950.6 | 938.4 | 933.9 | 946.0 | 974.9 | 1034.1 | 1202.6 | 1656.7 | 2736.3 | 4581.2 |
| 72.5° | 870.1 | 861.0 | 839.7 | 823.0 | 820.0 | 820.0 | 832.1 | 857.9 | 930.8 | 1114.6 | 1793.3 |
| 75° | 801.8 | 775.9 | 747.1 | 727.3 | 719.8 | 712.2 | 710.6 | 715.2 | 730.4 | 759.2 | 856.4 |
| 77.5° | 718.2 | 684.8 | 651.4 | 631.7 | 622.6 | 611.9 | 602.8 | 592.2 | 584.6 | 593.7 | 636.2 |
| 80° | 618.0 | 580.1 | 554.2 | 542.1 | 533.0 | 517.8 | 498.1 | 479.8 | 463.1 | 460.1 | 485.9 |
| 82.5° | 498.1 | 454.0 | 455.5 | 460.1 | 443.4 | 422.1 | 400.9 | 381.1 | 352.3 | 337.1 | 352.3 |
| 85° | 402.4 | 379.6 | 369.0 | 397.8 | 373.5 | 341.7 | 308.2 | 273.3 | 227.8 | 191.3 | 208.0 |
| 87.5° | 156.4 | 156.4 | 233.8 | 359.9 | 323.4 | 264.2 | 226.3 | 192.8 | 120.0 | 92.6 | 94.1 |
| 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: P191796

CATALOG NUMBER: GAN-AF-08-LED-U-RW-7050-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 | 3563.9 |
| 2.5° | 3569.9 | 3573.0 | 3571.4 | 3569.9 | 3569.9 | 3568.4 | 3569.9 | 3569.9 |
| 5° | 3597.3 | 3604.9 | 3604.9 | 3607.9 | 3607.9 | 3609.4 | 3610.9 | 3609.4 |
| 7.5° | 3638.3 | 3651.9 | 3661.0 | 3671.7 | 3673.2 | 3674.7 | 3677.7 | 3674.7 |
| 10° | 3679.3 | 3706.6 | 3726.3 | 3746.1 | 3755.2 | 3758.2 | 3761.3 | 3761.3 |
| 12.5° | 3730.9 | 3768.8 | 3803.8 | 3838.7 | 3855.4 | 3864.5 | 3864.5 | 3870.6 |
| 15° | 3815.9 | 3853.9 | 3894.9 | 3942.0 | 3970.8 | 3986.0 | 3990.5 | 3990.5 |
| 17.5° | 3935.9 | 3969.3 | 4004.2 | 4049.8 | 4086.2 | 4105.9 | 4110.5 | 4109.0 |
| 20° | 4075.6 | 4107.5 | 4127.2 | 4156.1 | 4187.9 | 4210.7 | 4216.8 | 4216.8 |
| 22.5° | 4235.0 | 4253.2 | 4256.3 | 4265.4 | 4291.2 | 4321.6 | 4335.2 | 4338.3 |
| 25° | 4411.2 | 4415.7 | 4403.6 | 4403.6 | 4420.3 | 4449.1 | 4462.8 | 4464.3 |
| 27.5° | 4638.9 | 4616.2 | 4585.8 | 4575.2 | 4585.8 | 4619.2 | 4635.9 | 4642.0 |
| 30° | 4922.9 | 4868.2 | 4798.4 | 4760.4 | 4754.3 | 4798.4 | 4828.7 | 4833.3 |
| 32.5° | 5247.8 | 5168.9 | 5076.3 | 4998.8 | 4979.1 | 5006.4 | 5042.8 | 5041.3 |
| 35° | 5633.5 | 5539.4 | 5427.0 | 5328.3 | 5282.8 | 5310.1 | 5361.7 | 5367.8 |
| 37.5° | 6078.4 | 5955.4 | 5826.4 | 5701.9 | 5630.5 | 5638.1 | 5692.8 | 5711.0 |
| 40° | 6575.0 | 6415.5 | 6253.1 | 6086.0 | 5984.3 | 5964.6 | 6031.4 | 6042.0 |
| 42.5° | 7106.5 | 6901.5 | 6696.5 | 6490.0 | 6359.4 | 6329.0 | 6406.4 | 6401.9 |
| 45° | 7672.8 | 7411.7 | 7171.7 | 6944.0 | 6789.1 | 6743.5 | 6807.3 | 6807.3 |
| 47.5° | 8281.7 | 7959.8 | 7674.4 | 7416.2 | 7247.7 | 7182.4 | 7243.1 | 7247.7 |
| 50° | 8927.1 | 8585.4 | 8249.9 | 7962.9 | 7760.9 | 7677.4 | 7756.4 | 7768.5 |
| 52.5° | 9569.4 | 9236.9 | 8898.2 | 8570.3 | 8325.8 | 8224.0 | 8315.2 | 8354.6 |
| 55° | 10220.8 | 9894.4 | 9570.9 | 9250.5 | 8960.5 | 8840.5 | 8937.7 | 8987.8 |
| 57.5° | 10908.7 | 10606.5 | 10298.3 | 9974.8 | 9695.4 | 9508.7 | 9611.9 | 9678.7 |
| 60° | 11715.0 | 11456.9 | 11136.5 | 10779.6 | 10497.2 | 10307.4 | 10366.6 | 10425.8 |
| 62.5° | 12352.8 | 12453.0 | 12181.2 | 11768.2 | 11405.2 | 11162.3 | 11220.0 | 11282.3 |
| 65° | 12044.5 | 13072.5 | 13314.0 | 12896.4 | 12393.8 | 12015.7 | 11991.4 | 12023.3 |
| 67.5° | 10067.5 | 12064.3 | 13520.5 | 13918.3 | 13497.7 | 12972.3 | 12875.1 | 12922.2 |
| 70° | 6734.4 | 9221.7 | 11790.9 | 13704.2 | 14212.9 | 14009.4 | 13913.8 | 13942.6 |
| 72.5° | 3234.3 | 5370.8 | 7999.3 | 10542.8 | 12091.6 | 12802.2 | 13030.0 | 13140.9 |
| 75° | 1182.9 | 2131.9 | 3855.4 | 5809.7 | 7013.8 | 8119.3 | 8840.5 | 9135.1 |
| 77.5° | 713.7 | 861.0 | 1231.5 | 1854.1 | 2100.0 | 2350.6 | 2253.4 | 2302.0 |
| 80° | 528.4 | 596.8 | 675.7 | 759.2 | 786.6 | 786.6 | 756.2 | 731.9 |
| 82.5° | 370.5 | 414.5 | 452.5 | 498.1 | 510.2 | 487.4 | 400.9 | 318.9 |
| 85° | 238.4 | 258.1 | 274.8 | 303.7 | 296.1 | 282.4 | 189.8 | 168.6 |
| 87.5° | 109.3 | 124.5 | 130.6 | 144.3 | 138.2 | 132.1 | 94.1 | 79.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)