

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: P191395

Luminaire Tested: **GAN-AF-07-LED-U-T2R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T2R-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29563.3 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

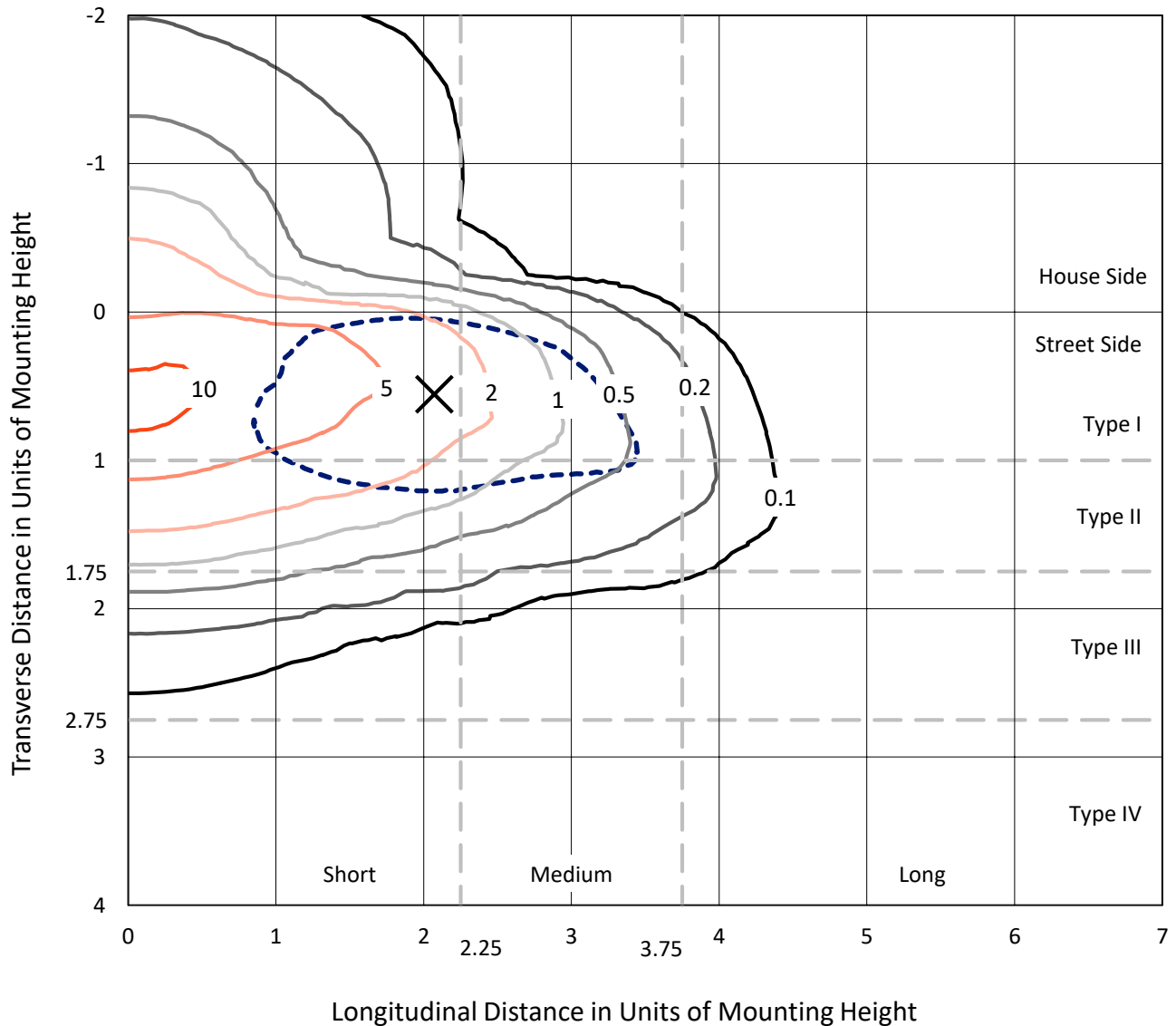
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

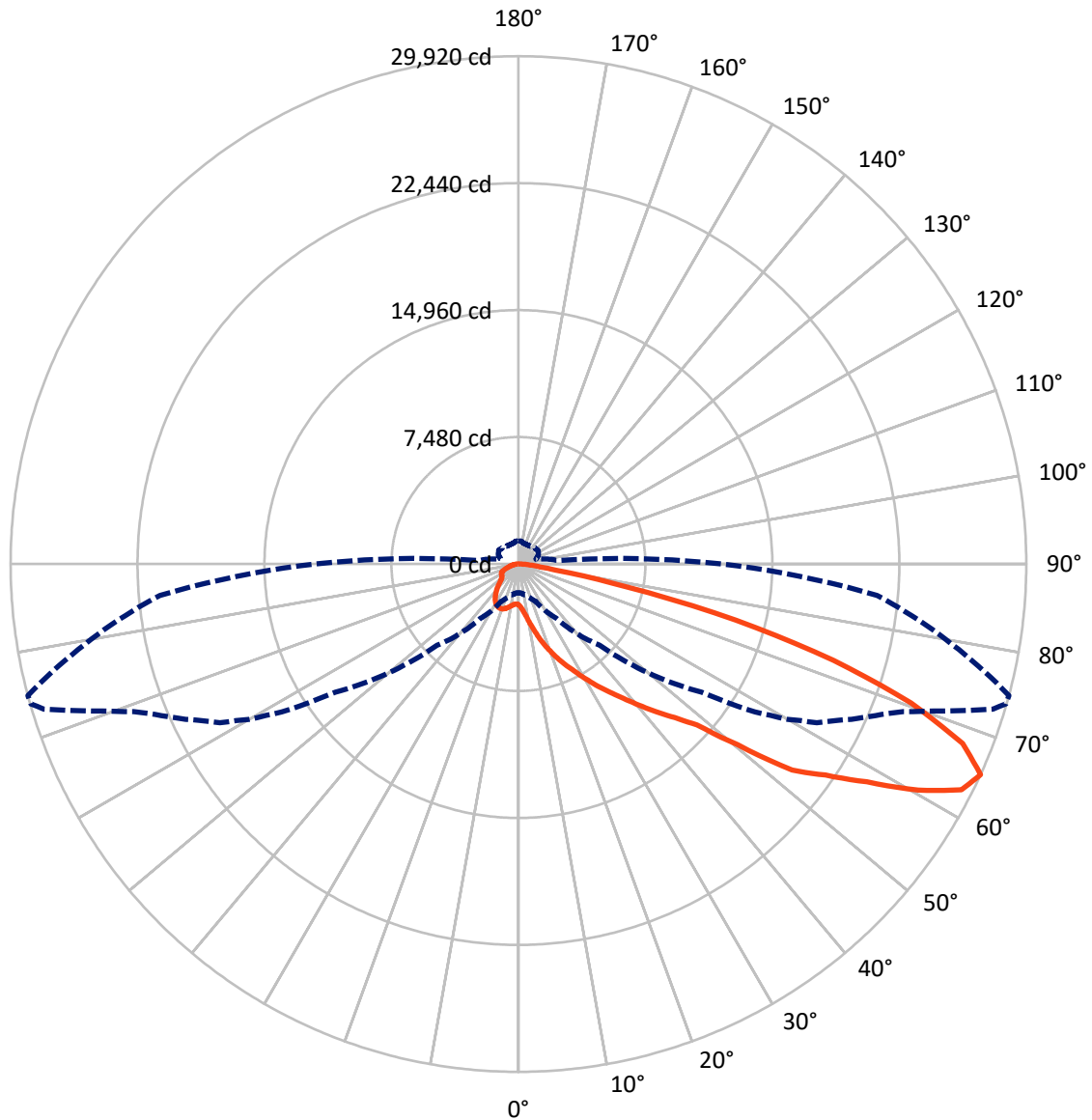
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4558.0 | 0.0 | 4558.0 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 25005.3 | 0.0 | 25005.3 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 29563.3 | 0.0 | 29563.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 297.0 | 1.0 |
| 10°-20° | 1160.3 | 3.9 |
| 20°-30° | 2380.6 | 8.1 |
| 30°-40° | 4005.2 | 13.5 |
| 40°-50° | 5534.1 | 18.7 |
| 50°-60° | 6908.2 | 23.4 |
| 60°-70° | 6216.7 | 21.0 |
| 70°-80° | 2606.0 | 8.8 |
| 80°-90° | 455.3 | 1.5 |
| 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° | 29563.3 | 100.0 |
| 0°-180° | 29563.3 | 100.0 |

Coefficient of Utilization



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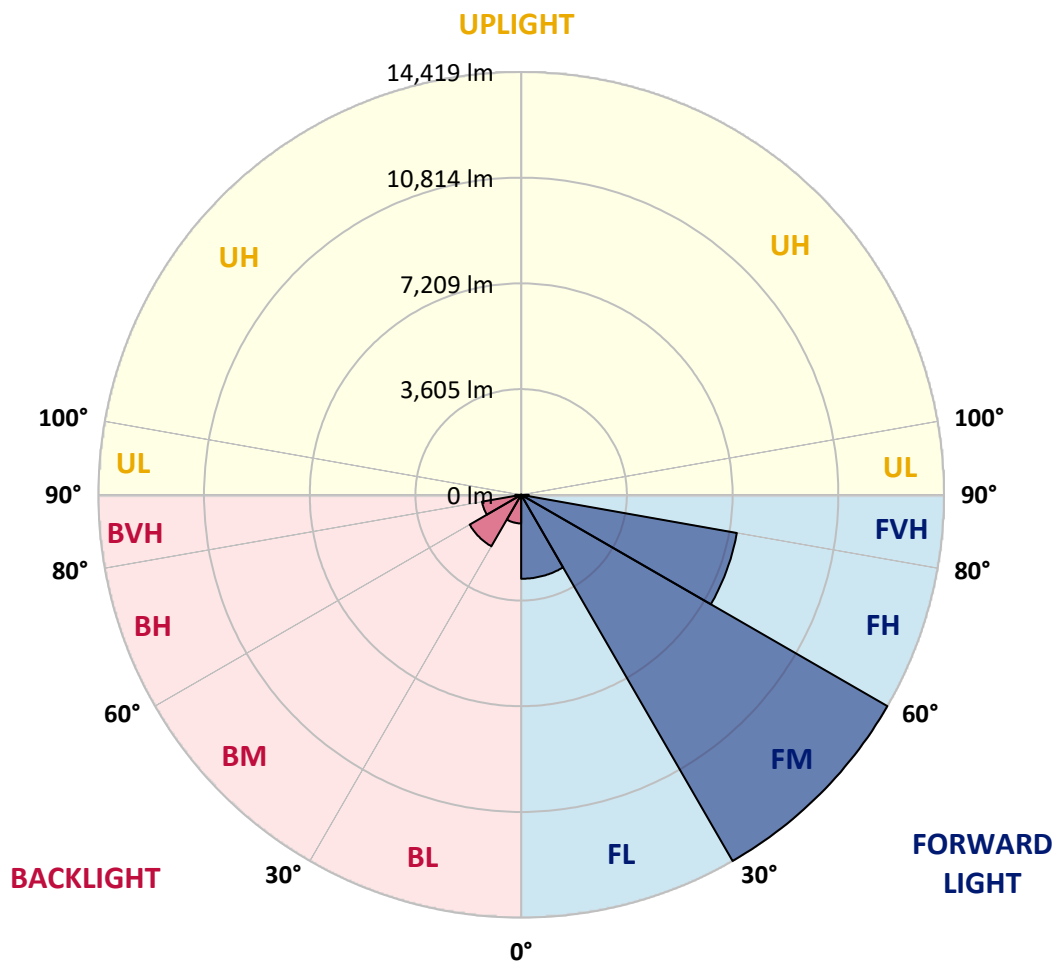
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2863.1 | 9.7 | | | |
| FM (30°-60°) | 14418.7 | 48.8 | | | |
| FH (60°-80°) | 7467.6 | 25.3 | | | G3/7500 |
| FVH (80°-90°) | 255.9 | 0.9 | | | G3/500 |
| BL (0°-30°) | 974.8 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 2028.8 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1355.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 199.4 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CATALOG NUMBER: GAN-AF-07-LED-U-T2R-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 |
| 2.5° | 3050.4 | 3016.9 | 3025.3 | 2969.3 | 2900.7 | 2811.2 | 2711.8 | 2710.4 | 2711.8 | 2702.0 | 2665.6 |
| 5° | 4230.1 | 4189.5 | 4174.0 | 4048.1 | 3863.5 | 3600.4 | 3314.9 | 3284.2 | 3271.5 | 3239.4 | 3165.2 |
| 7.5° | 5090.6 | 5068.2 | 5044.5 | 4949.2 | 4781.4 | 4487.5 | 4104.1 | 4038.3 | 3975.4 | 3959.9 | 3876.1 |
| 10° | 5646.2 | 5640.6 | 5590.1 | 5565.0 | 5460.0 | 5205.4 | 4831.7 | 4768.8 | 4700.3 | 4676.4 | 4588.2 |
| 12.5° | 6085.5 | 6084.1 | 6060.4 | 6067.3 | 5976.4 | 5791.6 | 5469.8 | 5412.4 | 5362.1 | 5289.3 | 5226.4 |
| 15° | 6389.1 | 6390.6 | 6425.6 | 6464.7 | 6450.7 | 6326.2 | 6024.0 | 5998.8 | 5955.4 | 5905.0 | 5830.8 |
| 17.5° | 6638.2 | 6645.2 | 6681.6 | 6753.0 | 6829.9 | 6820.1 | 6580.8 | 6559.9 | 6522.1 | 6453.5 | 6414.3 |
| 20° | 7200.8 | 7227.4 | 7157.4 | 7157.4 | 7165.8 | 7203.5 | 7088.8 | 7072.0 | 7018.9 | 6982.5 | 6951.7 |
| 22.5° | 8150.9 | 8181.7 | 8023.5 | 7862.6 | 7704.5 | 7589.8 | 7475.0 | 7496.0 | 7459.7 | 7434.4 | 7416.2 |
| 25° | 9385.1 | 9408.8 | 9152.8 | 8881.3 | 8559.4 | 8139.7 | 7855.6 | 7843.1 | 7823.4 | 7808.1 | 7799.7 |
| 27.5° | 10546.4 | 10556.2 | 10314.2 | 9916.8 | 9543.2 | 8940.1 | 8241.8 | 8226.5 | 8202.6 | 8173.3 | 8148.1 |
| 30° | 11539.9 | 11537.1 | 11288.1 | 10908.8 | 10508.7 | 9841.2 | 8828.2 | 8780.5 | 8710.6 | 8630.8 | 8569.3 |
| 32.5° | 12400.5 | 12396.3 | 12123.5 | 11730.3 | 11310.5 | 10733.9 | 9631.3 | 9533.4 | 9424.2 | 9268.9 | 9175.2 |
| 35° | 13077.8 | 13074.9 | 12817.5 | 12407.5 | 11926.2 | 11574.9 | 10552.0 | 10431.7 | 10293.1 | 10084.7 | 9940.5 |
| 37.5° | 13333.9 | 13333.9 | 13189.7 | 12909.8 | 12484.5 | 12243.8 | 11574.9 | 11429.4 | 11281.1 | 11044.6 | 10882.3 |
| 40° | 13184.1 | 13187.0 | 13217.6 | 13165.9 | 12958.8 | 12774.1 | 12529.2 | 12442.5 | 12315.2 | 12102.4 | 11933.1 |
| 42.5° | 12681.7 | 12697.2 | 12901.5 | 13152.0 | 13255.5 | 13226.1 | 13375.8 | 13336.6 | 13247.1 | 13083.3 | 12949.0 |
| 45° | 12045.1 | 12092.7 | 12316.5 | 12789.5 | 13338.1 | 13616.5 | 14085.2 | 14089.4 | 14072.6 | 13984.6 | 13880.9 |
| 47.5° | 11170.5 | 11237.7 | 11533.0 | 12172.4 | 13144.9 | 13995.7 | 14805.9 | 14843.6 | 14878.6 | 14821.3 | 14773.7 |
| 50° | 10009.2 | 10088.9 | 10531.1 | 11379.0 | 12751.7 | 14388.9 | 16167.4 | 16338.2 | 16497.6 | 16478.0 | 16510.2 |
| 52.5° | 8765.2 | 8859.0 | 9400.4 | 10345.0 | 12075.8 | 14479.9 | 17037.8 | 17316.2 | 17594.7 | 17822.8 | 18064.8 |
| 55° | 7642.9 | 7592.5 | 8134.1 | 9129.0 | 10964.8 | 14069.9 | 17820.0 | 18155.8 | 18466.4 | 18746.3 | 19034.6 |
| 57.5° | 6121.8 | 6204.5 | 6747.4 | 7731.1 | 9494.2 | 12912.6 | 18358.7 | 18849.8 | 19296.2 | 19759.4 | 20168.0 |
| 60° | 4474.9 | 4557.5 | 5146.6 | 6145.7 | 7897.6 | 11157.9 | 17947.3 | 18691.8 | 19406.8 | 20116.2 | 20670.4 |
| 62.5° | 2702.0 | 2763.6 | 3282.8 | 4234.3 | 6089.7 | 9077.2 | 16114.2 | 17091.0 | 18143.2 | 18991.2 | 19840.5 |
| 65° | 1681.9 | 1716.9 | 1908.6 | 2432.0 | 3911.0 | 6776.7 | 13165.9 | 14230.8 | 15364.2 | 16440.3 | 17323.3 |
| 67.5° | 1376.9 | 1389.5 | 1424.5 | 1536.5 | 2147.9 | 4418.9 | 9799.3 | 10742.3 | 11765.3 | 12806.3 | 13788.6 |
| 70° | 1238.4 | 1230.0 | 1230.0 | 1237.0 | 1376.9 | 2376.0 | 6415.7 | 7030.0 | 7882.2 | 8787.6 | 9685.9 |
| 72.5° | 1118.0 | 1109.6 | 1094.3 | 1073.3 | 1123.6 | 1449.6 | 3316.3 | 3779.5 | 4393.8 | 5198.3 | 6058.9 |
| 75° | 1004.6 | 993.5 | 975.3 | 948.7 | 983.7 | 1094.3 | 1592.4 | 1786.9 | 2086.3 | 2514.5 | 2994.5 |
| 77.5° | 887.1 | 873.2 | 856.4 | 836.8 | 881.6 | 850.8 | 933.3 | 1003.3 | 1118.0 | 1255.2 | 1435.7 |
| 80° | 754.2 | 741.6 | 736.0 | 726.2 | 779.4 | 647.8 | 659.1 | 702.5 | 769.6 | 843.7 | 927.7 |
| 82.5° | 590.5 | 590.5 | 612.8 | 617.0 | 675.9 | 466.0 | 492.6 | 530.3 | 565.3 | 604.5 | 643.6 |
| 85° | 389.0 | 391.8 | 467.4 | 496.7 | 533.2 | 313.4 | 369.4 | 382.0 | 410.0 | 432.4 | 449.2 |
| 87.5° | 121.7 | 131.6 | 285.5 | 316.2 | 306.5 | 177.7 | 226.7 | 232.3 | 251.9 | 267.3 | 281.2 |
| 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: P191395

CATALOG NUMBER: GAN-AF-07-LED-U-T2R-600

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 |
| 2.5° | 2665.6 | 2648.8 | 2633.5 | 2632.1 | 2620.9 | 2605.5 | 2611.1 | 2587.2 | 2588.7 | 2576.1 | 2562.1 |
| 5° | 3134.4 | 3123.2 | 3067.2 | 3051.9 | 3009.8 | 2983.3 | 2979.1 | 2923.1 | 2916.1 | 2883.9 | 2848.9 |
| 7.5° | 3808.9 | 3772.4 | 3694.1 | 3656.3 | 3585.0 | 3531.8 | 3506.6 | 3432.4 | 3396.1 | 3312.1 | 3274.4 |
| 10° | 4515.5 | 4469.4 | 4372.8 | 4319.6 | 4251.1 | 4165.7 | 4119.5 | 4011.8 | 3969.8 | 3892.8 | 3800.5 |
| 12.5° | 5170.4 | 5124.2 | 5024.8 | 4984.2 | 4893.3 | 4802.3 | 4752.0 | 4630.3 | 4575.7 | 4452.5 | 4379.8 |
| 15° | 5776.3 | 5730.1 | 5643.3 | 5601.4 | 5510.4 | 5436.3 | 5369.1 | 5248.8 | 5184.4 | 5069.6 | 4974.5 |
| 17.5° | 6364.0 | 6315.0 | 6239.4 | 6201.6 | 6113.5 | 6038.0 | 5965.1 | 5851.8 | 5786.1 | 5671.3 | 5585.9 |
| 20° | 6909.7 | 6873.3 | 6818.8 | 6768.4 | 6680.2 | 6611.6 | 6524.9 | 6426.9 | 6331.8 | 6247.9 | 6166.7 |
| 22.5° | 7385.5 | 7371.5 | 7312.7 | 7290.3 | 7214.8 | 7156.0 | 7080.5 | 6983.9 | 6915.2 | 6809.0 | 6733.4 |
| 25° | 7795.4 | 7791.2 | 7763.3 | 7756.2 | 7703.1 | 7647.2 | 7630.3 | 7550.6 | 7487.6 | 7393.9 | 7315.5 |
| 27.5° | 8148.1 | 8152.3 | 8145.2 | 8164.9 | 8150.9 | 8125.7 | 8127.0 | 8100.5 | 8064.1 | 7985.8 | 7917.2 |
| 30° | 8539.9 | 8517.5 | 8530.1 | 8558.1 | 8566.5 | 8569.3 | 8615.4 | 8630.8 | 8628.0 | 8576.2 | 8542.7 |
| 32.5° | 9094.0 | 9040.8 | 8991.8 | 8987.6 | 9015.7 | 9026.8 | 9105.2 | 9145.8 | 9180.8 | 9193.4 | 9198.9 |
| 35° | 9800.6 | 9694.3 | 9592.1 | 9537.6 | 9490.0 | 9502.6 | 9558.6 | 9624.3 | 9701.3 | 9754.4 | 9817.5 |
| 37.5° | 10690.6 | 10560.4 | 10380.0 | 10251.2 | 10219.0 | 10149.1 | 10185.4 | 10237.2 | 10312.8 | 10395.3 | 10504.5 |
| 40° | 11769.5 | 11572.1 | 11369.3 | 11198.5 | 11106.2 | 10977.4 | 10976.1 | 10966.2 | 11012.4 | 11089.4 | 11243.3 |
| 42.5° | 12807.8 | 12632.8 | 12417.3 | 12238.2 | 12117.9 | 11945.7 | 11910.7 | 11819.8 | 11840.8 | 11908.0 | 12057.7 |
| 45° | 13780.2 | 13636.0 | 13504.6 | 13297.4 | 13195.3 | 13009.2 | 12950.5 | 12842.7 | 12782.5 | 12813.3 | 12963.0 |
| 47.5° | 14721.9 | 14629.6 | 14492.5 | 14358.1 | 14279.8 | 14113.2 | 14037.6 | 13960.7 | 13883.8 | 13880.9 | 14037.6 |
| 50° | 16557.8 | 16508.8 | 16346.5 | 16206.6 | 16244.4 | 16040.1 | 16052.7 | 15845.6 | 15939.3 | 15950.5 | 16279.3 |
| 52.5° | 18283.1 | 18453.8 | 18574.2 | 18721.1 | 18816.3 | 18834.5 | 18897.4 | 18991.2 | 19104.5 | 19328.5 | 19633.5 |
| 55° | 19271.1 | 19485.2 | 19609.7 | 19721.6 | 19906.3 | 19945.5 | 20050.4 | 20174.9 | 20274.3 | 20526.2 | 20785.0 |
| 57.5° | 20445.0 | 20842.4 | 21035.6 | 21213.2 | 21462.3 | 21557.5 | 21732.4 | 21868.1 | 21996.8 | 22294.9 | 22608.3 |
| 60° | 21168.4 | 21652.6 | 22045.8 | 22327.1 | 22639.1 | 22863.1 | 23127.5 | 23340.2 | 23642.4 | 23999.2 | 24466.6 |
| 62.5° | 20593.3 | 21304.2 | 21826.1 | 22308.9 | 22732.8 | 23161.0 | 23540.2 | 23937.7 | 24396.7 | 24936.8 | 25661.5 |
| 65° | 18302.7 | 19026.2 | 19920.3 | 20421.3 | 20982.4 | 21642.9 | 22219.3 | 22863.1 | 23488.5 | 24274.9 | 25346.8 |
| 67.5° | 14734.5 | 15575.6 | 16580.2 | 17085.3 | 17730.4 | 18467.8 | 19114.3 | 19900.7 | 20631.2 | 21584.1 | 22909.2 |
| 70° | 10620.6 | 11707.9 | 12553.0 | 13080.6 | 13833.4 | 14593.2 | 15217.3 | 16132.4 | 16736.9 | 17713.6 | 19083.6 |
| 72.5° | 6725.0 | 7582.7 | 8618.3 | 9282.9 | 9951.8 | 10721.3 | 11359.5 | 12148.7 | 12712.5 | 13602.5 | 14843.6 |
| 75° | 3615.7 | 4248.2 | 5157.8 | 5788.9 | 6505.3 | 7163.0 | 7910.2 | 8439.1 | 8856.1 | 9560.0 | 10567.5 |
| 77.5° | 1694.5 | 2079.4 | 2539.7 | 3025.3 | 3510.9 | 4017.3 | 4509.9 | 4938.1 | 5117.2 | 5520.3 | 6114.9 |
| 80° | 1028.5 | 1153.0 | 1287.4 | 1437.0 | 1640.0 | 1803.7 | 2020.5 | 2177.2 | 2188.5 | 2315.9 | 2497.7 |
| 82.5° | 687.0 | 733.3 | 773.8 | 811.6 | 863.4 | 904.0 | 950.1 | 1004.6 | 1027.0 | 1056.5 | 1115.2 |
| 85° | 468.7 | 491.1 | 499.5 | 523.3 | 517.7 | 531.7 | 549.9 | 568.1 | 577.9 | 576.5 | 603.1 |
| 87.5° | 288.3 | 299.4 | 305.0 | 310.7 | 306.5 | 300.8 | 309.2 | 319.1 | 321.8 | 313.4 | 316.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GAN-AF-07-LED-U-T2R-600

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 | 2402.6 |
| 2.5° | 2564.9 | 2552.3 | 2539.7 | 2531.3 | 2528.5 | 2454.4 | 2422.1 | 2401.2 | 2356.4 | 2320.1 | 2290.6 |
| 5° | 2829.4 | 2802.8 | 2781.8 | 2756.6 | 2742.6 | 2555.1 | 2486.6 | 2438.9 | 2360.6 | 2314.4 | 2272.5 |
| 7.5° | 3254.7 | 3180.6 | 3137.2 | 3088.2 | 3046.2 | 2707.6 | 2594.3 | 2520.1 | 2411.0 | 2349.4 | 2301.8 |
| 10° | 3737.6 | 3660.5 | 3592.0 | 3516.4 | 3450.6 | 2910.5 | 2745.4 | 2630.6 | 2486.6 | 2406.8 | 2343.8 |
| 12.5° | 4276.2 | 4200.6 | 4113.9 | 4017.3 | 3933.5 | 3168.0 | 2938.5 | 2774.8 | 2577.5 | 2471.1 | 2383.0 |
| 15° | 4912.9 | 4779.9 | 4675.0 | 4563.1 | 4465.2 | 3475.9 | 3163.8 | 2937.1 | 2674.0 | 2530.0 | 2412.4 |
| 17.5° | 5504.8 | 5364.9 | 5222.2 | 5124.2 | 5010.8 | 3821.4 | 3390.5 | 3102.2 | 2753.8 | 2567.7 | 2417.9 |
| 20° | 6082.7 | 5930.1 | 5807.1 | 5675.5 | 5556.6 | 4179.7 | 3632.6 | 3247.8 | 2805.5 | 2569.1 | 2383.0 |
| 22.5° | 6592.1 | 6496.9 | 6359.8 | 6217.1 | 6096.7 | 4537.9 | 3859.3 | 3370.9 | 2825.2 | 2536.9 | 2321.4 |
| 25° | 7171.4 | 7070.6 | 6902.7 | 6782.4 | 6648.1 | 4903.1 | 4081.8 | 3466.1 | 2813.9 | 2476.8 | 2226.2 |
| 27.5° | 7789.9 | 7677.9 | 7505.8 | 7379.9 | 7217.5 | 5282.3 | 4286.1 | 3534.6 | 2772.0 | 2378.8 | 2098.9 |
| 30° | 8434.9 | 8332.8 | 8163.5 | 8036.1 | 7872.4 | 5683.9 | 4514.1 | 3580.7 | 2688.0 | 2243.0 | 1950.6 |
| 32.5° | 9127.6 | 9042.2 | 8874.3 | 8741.3 | 8566.5 | 6119.1 | 4726.9 | 3594.8 | 2560.8 | 2082.1 | 1793.8 |
| 35° | 9785.2 | 9726.4 | 9585.2 | 9460.6 | 9278.7 | 6530.5 | 4952.1 | 3587.8 | 2409.6 | 1905.9 | 1651.1 |
| 37.5° | 10525.4 | 10490.5 | 10420.5 | 10262.4 | 10040.0 | 7088.8 | 5222.2 | 3558.4 | 2224.9 | 1730.9 | 1542.0 |
| 40° | 11314.7 | 11317.4 | 11241.9 | 11134.2 | 10927.1 | 7766.0 | 5544.0 | 3501.0 | 2023.4 | 1577.0 | 1442.7 |
| 42.5° | 12150.0 | 12193.4 | 12157.1 | 12080.0 | 11881.4 | 8449.0 | 5928.8 | 3431.1 | 1827.5 | 1427.3 | 1344.7 |
| 45° | 13107.2 | 13160.4 | 13216.3 | 13103.0 | 12909.8 | 9350.1 | 6435.4 | 3340.1 | 1616.2 | 1302.7 | 1277.6 |
| 47.5° | 14211.2 | 14295.1 | 14345.6 | 14346.9 | 14153.9 | 10466.7 | 7258.1 | 3285.5 | 1428.7 | 1218.7 | 1245.3 |
| 50° | 16541.0 | 16567.6 | 16686.6 | 16893.6 | 16745.3 | 13051.2 | 8695.2 | 3252.0 | 1301.3 | 1167.0 | 1221.6 |
| 52.5° | 19897.9 | 20190.4 | 20396.1 | 20382.1 | 20180.6 | 14692.5 | 9487.2 | 3078.5 | 1225.8 | 1147.4 | 1210.4 |
| 55° | 21265.0 | 21630.2 | 22010.8 | 22111.6 | 21954.9 | 16093.3 | 10235.9 | 2905.0 | 1189.4 | 1161.5 | 1214.5 |
| 57.5° | 23086.9 | 23702.6 | 24224.5 | 24444.2 | 24217.5 | 17885.7 | 11221.0 | 2813.9 | 1178.2 | 1199.2 | 1241.1 |
| 60° | 25215.2 | 25976.4 | 26662.1 | 27056.6 | 27056.6 | 19945.5 | 12242.4 | 2776.2 | 1162.8 | 1255.2 | 1286.0 |
| 62.5° | 26582.3 | 27700.4 | 28735.8 | 29313.8 | 29296.9 | 21379.8 | 12695.7 | 2647.5 | 1127.8 | 1294.3 | 1347.5 |
| 65° | 26587.9 | 27917.2 | 29236.8 | 29886.0 | 29919.7 | 21203.4 | 11947.1 | 2338.3 | 1063.5 | 1300.0 | 1409.1 |
| 67.5° | 24371.4 | 25788.9 | 27326.7 | 28053.0 | 28220.9 | 19518.7 | 10342.1 | 1922.6 | 958.5 | 1244.0 | 1431.5 |
| 70° | 20583.6 | 21967.5 | 23537.5 | 24251.1 | 24549.2 | 16639.0 | 8330.0 | 1481.8 | 824.2 | 1120.8 | 1385.3 |
| 72.5° | 16216.3 | 17573.7 | 18666.5 | 19188.5 | 19420.7 | 12718.1 | 6065.9 | 1119.4 | 675.9 | 944.5 | 1260.8 |
| 75° | 11481.2 | 12499.8 | 13080.6 | 13196.7 | 13233.1 | 7666.7 | 3685.7 | 832.6 | 556.9 | 734.6 | 1064.9 |
| 77.5° | 6480.1 | 6916.7 | 6869.1 | 6920.9 | 6489.9 | 2959.5 | 1605.0 | 596.1 | 459.0 | 558.3 | 825.6 |
| 80° | 2530.0 | 2608.3 | 2450.2 | 2401.2 | 2202.5 | 1101.2 | 708.1 | 415.6 | 366.6 | 422.6 | 577.9 |
| 82.5° | 1115.2 | 1151.6 | 1118.0 | 1126.5 | 1077.5 | 568.1 | 424.0 | 300.8 | 279.9 | 309.2 | 383.4 |
| 85° | 614.3 | 625.4 | 622.7 | 640.9 | 614.3 | 226.7 | 201.5 | 184.7 | 195.9 | 209.9 | 246.2 |
| 87.5° | 299.4 | 302.3 | 292.5 | 307.8 | 298.1 | 114.8 | 99.3 | 105.0 | 114.8 | 117.5 | 117.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 2.5° | 2269.6 | 2258.5 | 2259.9 | 2257.0 | 2251.4 | 2251.4 |
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| 45° | 1339.1 | 1383.8 | 1431.5 | 1420.3 | 1446.9 | 1446.9 |
| 47.5° | 1300.0 | 1367.1 | 1430.1 | 1430.1 | 1469.3 | 1483.3 |
| 50° | 1255.2 | 1353.2 | 1407.7 | 1427.3 | 1458.0 | 1446.9 |
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| 55° | 1256.6 | 1309.8 | 1343.3 | 1382.5 | 1399.3 | 1400.7 |
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| 67.5° | 1381.1 | 1244.0 | 1203.4 | 1210.4 | 1357.4 | 1320.9 |
| 70° | 1424.5 | 1210.4 | 1153.0 | 1146.0 | 1304.2 | 1239.8 |
| 72.5° | 1428.7 | 1171.2 | 1083.1 | 1062.0 | 1133.4 | 1071.8 |
| 75° | 1358.7 | 1144.6 | 1006.1 | 944.5 | 936.1 | 927.7 |
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