

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: P191404

Luminaire Tested: **GAN-AF-06-LED-U-T2R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191404
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-06-LED-U-T2R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30653.8 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

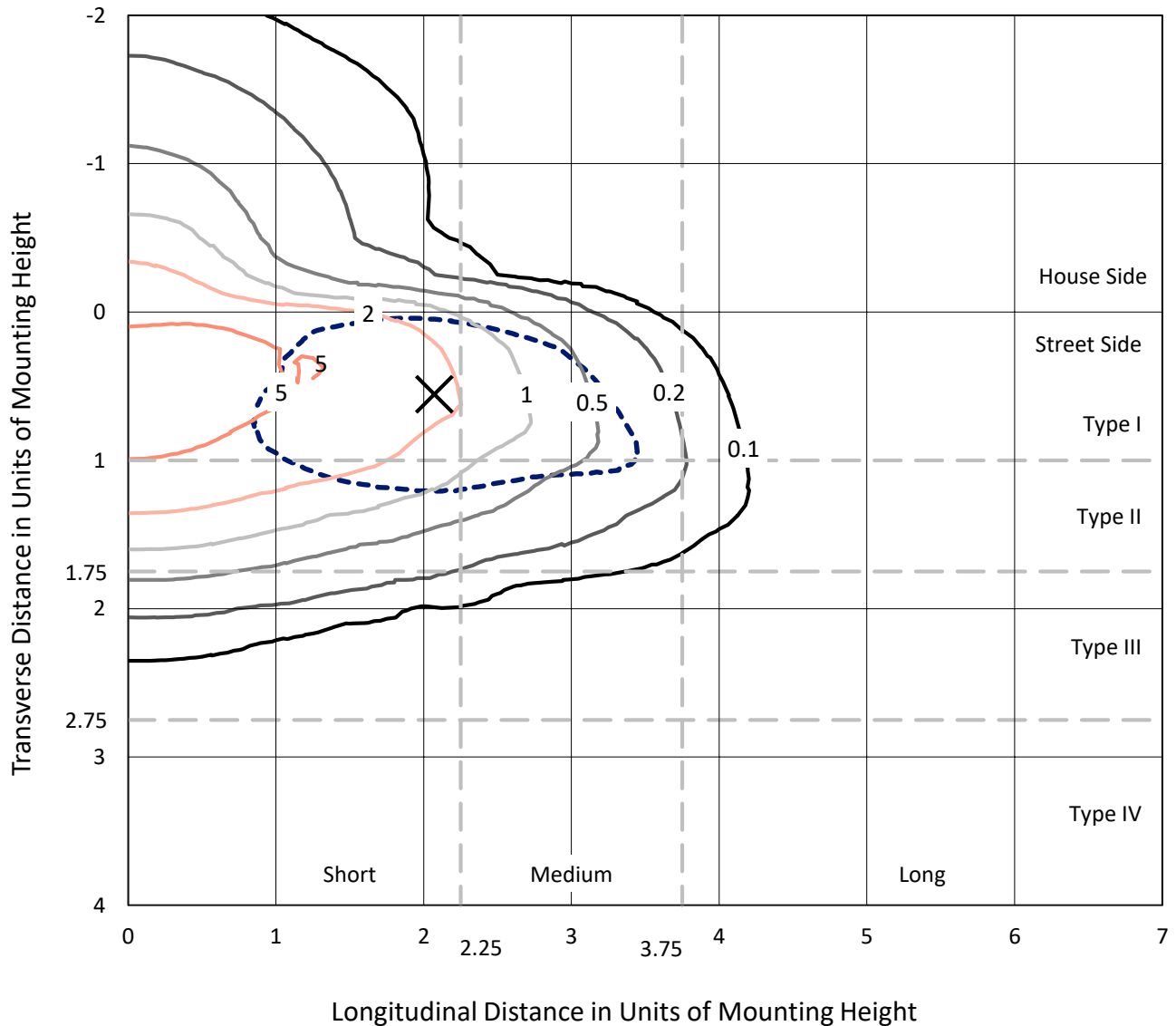


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CATALOG NUMBER: GAN-AF-06-LED-U-T2R-800

Iso-Footcandle Lines of Horizontal Illumination

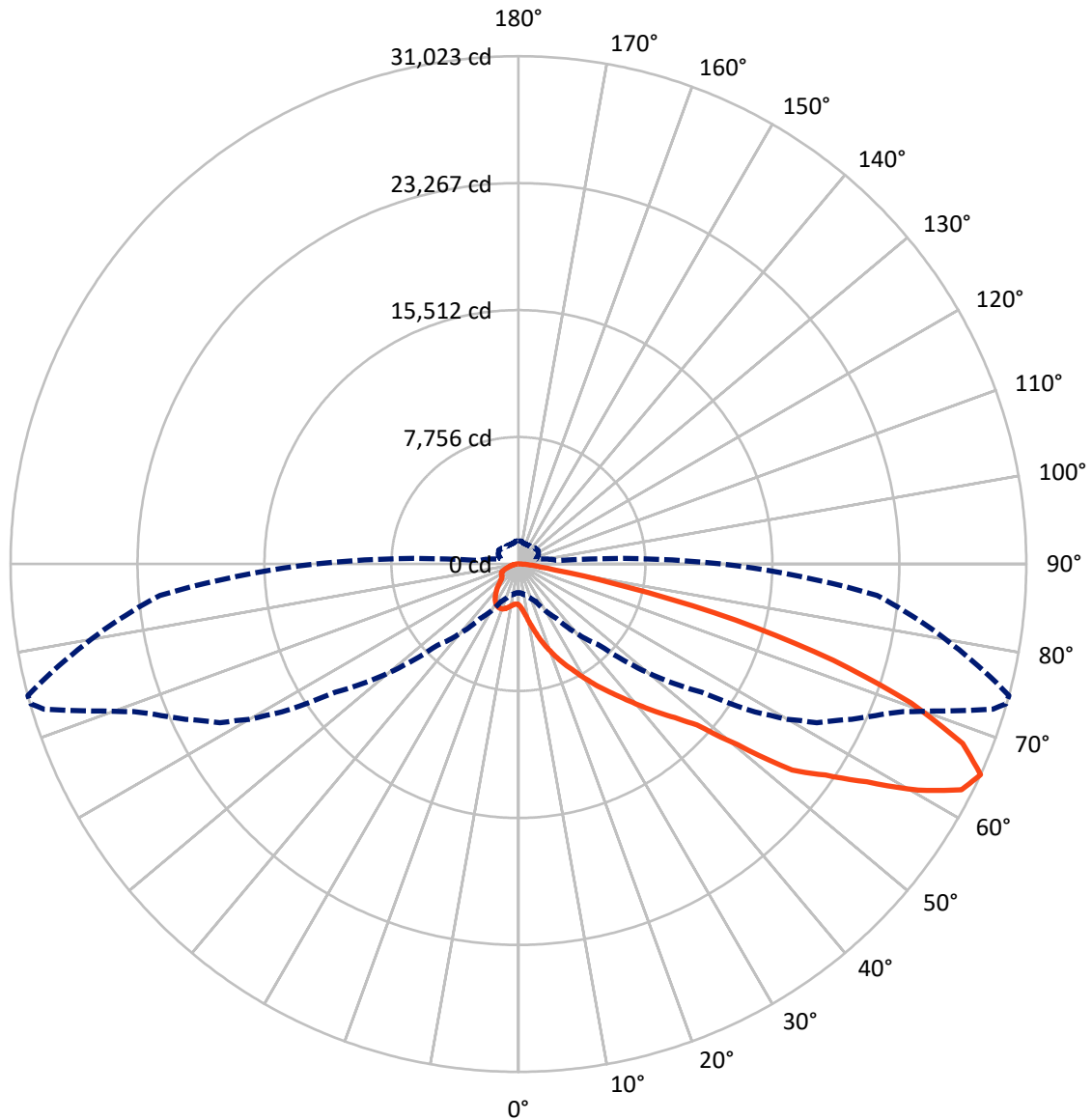
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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 | 4726.1 | 0.0 | 4726.1 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 25927.7 | 0.0 | 25927.7 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 30653.8 | 0.0 | 30653.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 307.9 | 1.0 |
| 10°-20° | 1203.1 | 3.9 |
| 20°-30° | 2468.4 | 8.1 |
| 30°-40° | 4153.0 | 13.5 |
| 40°-50° | 5738.2 | 18.7 |
| 50°-60° | 7163.0 | 23.4 |
| 60°-70° | 6446.0 | 21.0 |
| 70°-80° | 2702.1 | 8.8 |
| 80°-90° | 472.1 | 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° | 30653.8 | 100.0 |
| 0°-180° | 30653.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191404

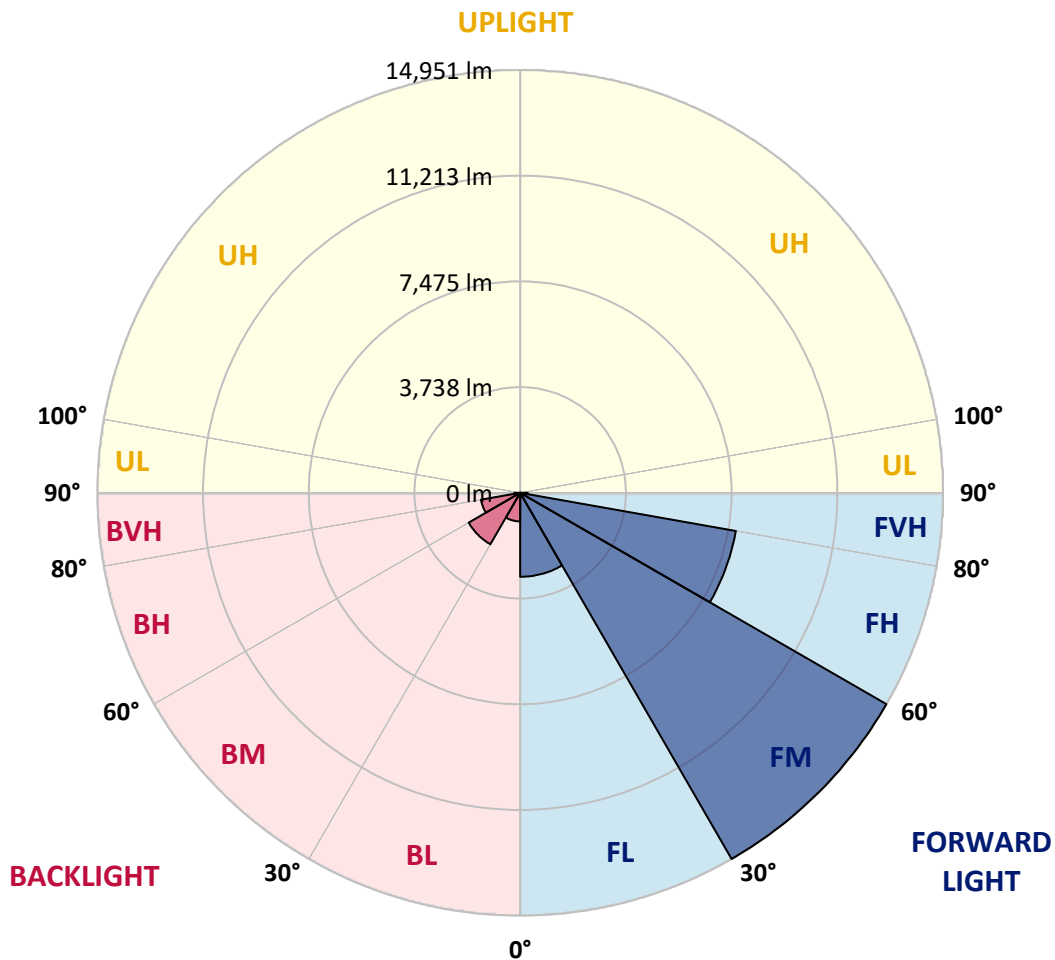
CATALOG NUMBER: GAN-AF-06-LED-U-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2968.7 | 9.7 | | | |
| FM | (30°-60°) | 14950.6 | 48.8 | | | |
| FH | (60°-80°) | 7743.0 | 25.3 | | | G4/12000 |
| FVH | (80°-90°) | 265.3 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1010.7 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 2103.6 | 6.9 | B2/2500 | | |
| BH | (60°-80°) | 1405.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 206.7 | 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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 |
| 2.5° | 3163.0 | 3128.2 | 3136.9 | 3078.8 | 3007.7 | 2914.9 | 2811.9 | 2810.4 | 2811.9 | 2801.7 | 2764.0 |
| 5° | 4386.1 | 4344.0 | 4328.0 | 4197.5 | 4006.0 | 3733.2 | 3437.2 | 3405.3 | 3392.2 | 3358.9 | 3281.9 |
| 7.5° | 5278.4 | 5255.2 | 5230.6 | 5131.8 | 4957.7 | 4653.1 | 4255.5 | 4187.3 | 4122.0 | 4106.0 | 4019.0 |
| 10° | 5854.4 | 5848.6 | 5796.3 | 5770.3 | 5661.4 | 5397.4 | 5010.0 | 4944.6 | 4873.5 | 4848.9 | 4757.5 |
| 12.5° | 6310.0 | 6308.5 | 6283.9 | 6291.1 | 6196.8 | 6005.3 | 5671.5 | 5612.1 | 5559.8 | 5484.4 | 5419.1 |
| 15° | 6624.8 | 6626.3 | 6662.6 | 6703.2 | 6688.7 | 6559.6 | 6246.1 | 6220.1 | 6175.0 | 6122.8 | 6045.9 |
| 17.5° | 6883.1 | 6890.4 | 6928.0 | 7002.1 | 7081.9 | 7071.7 | 6823.6 | 6801.8 | 6762.6 | 6691.5 | 6650.9 |
| 20° | 7466.3 | 7493.9 | 7421.4 | 7421.4 | 7430.1 | 7469.3 | 7350.3 | 7332.9 | 7277.8 | 7240.0 | 7208.1 |
| 22.5° | 8451.5 | 8483.4 | 8319.5 | 8152.6 | 7988.6 | 7869.7 | 7750.7 | 7772.5 | 7734.7 | 7708.7 | 7689.8 |
| 25° | 9731.2 | 9755.9 | 9490.3 | 9208.9 | 8875.2 | 8440.0 | 8145.3 | 8132.4 | 8112.0 | 8096.0 | 8087.3 |
| 27.5° | 10935.4 | 10945.6 | 10694.6 | 10282.6 | 9895.2 | 9269.9 | 8545.8 | 8529.9 | 8505.2 | 8474.7 | 8448.7 |
| 30° | 11965.7 | 11962.7 | 11704.4 | 11311.3 | 10896.3 | 10204.2 | 9153.8 | 9104.5 | 9031.8 | 8949.2 | 8885.4 |
| 32.5° | 12857.9 | 12853.6 | 12570.6 | 12162.9 | 11727.6 | 11129.9 | 9986.6 | 9885.0 | 9771.8 | 9610.8 | 9513.5 |
| 35° | 13560.1 | 13557.3 | 13290.3 | 12865.1 | 12366.0 | 12001.9 | 10941.3 | 10816.5 | 10672.9 | 10456.7 | 10307.3 |
| 37.5° | 13825.7 | 13825.7 | 13676.2 | 13386.0 | 12944.9 | 12695.4 | 12001.9 | 11851.0 | 11697.2 | 11452.0 | 11283.7 |
| 40° | 13670.4 | 13673.4 | 13705.3 | 13651.6 | 13436.9 | 13245.3 | 12991.4 | 12901.5 | 12769.4 | 12548.8 | 12373.3 |
| 42.5° | 13149.5 | 13165.5 | 13377.3 | 13637.1 | 13744.5 | 13714.0 | 13869.2 | 13828.6 | 13735.7 | 13566.0 | 13426.6 |
| 45° | 12489.4 | 12538.7 | 12770.8 | 13261.2 | 13830.0 | 14118.8 | 14604.8 | 14609.2 | 14591.8 | 14500.3 | 14393.0 |
| 47.5° | 11582.6 | 11652.2 | 11958.4 | 12621.4 | 13629.8 | 14512.0 | 15352.0 | 15391.2 | 15427.4 | 15368.0 | 15318.7 |
| 50° | 10378.3 | 10461.0 | 10919.5 | 11798.7 | 13222.0 | 14919.6 | 16763.7 | 16940.8 | 17106.2 | 17085.8 | 17119.2 |
| 52.5° | 9088.5 | 9185.7 | 9747.2 | 10726.6 | 12521.3 | 15014.0 | 17666.3 | 17954.9 | 18243.7 | 18480.2 | 18731.2 |
| 55° | 7924.8 | 7872.6 | 8434.1 | 9465.7 | 11369.3 | 14588.8 | 18477.3 | 18825.5 | 19147.6 | 19437.8 | 19736.6 |
| 57.5° | 6347.7 | 6433.3 | 6996.3 | 8016.3 | 9844.4 | 13389.0 | 19035.9 | 19545.1 | 20008.0 | 20488.3 | 20911.9 |
| 60° | 4640.0 | 4725.6 | 5336.4 | 6372.4 | 8188.9 | 11569.5 | 18609.3 | 19381.1 | 20122.6 | 20858.2 | 21432.8 |
| 62.5° | 2801.7 | 2865.5 | 3403.9 | 4390.4 | 6314.4 | 9412.1 | 16708.6 | 17721.4 | 18812.5 | 19691.7 | 20572.4 |
| 65° | 1744.0 | 1780.2 | 1979.0 | 2521.7 | 4055.3 | 7026.8 | 13651.6 | 14755.7 | 15930.9 | 17046.7 | 17962.2 |
| 67.5° | 1427.7 | 1440.7 | 1477.0 | 1593.1 | 2227.2 | 4582.0 | 10160.7 | 11138.6 | 12199.2 | 13278.7 | 14297.2 |
| 70° | 1284.0 | 1275.3 | 1275.3 | 1282.6 | 1427.7 | 2463.7 | 6652.4 | 7289.3 | 8173.0 | 9111.7 | 10043.1 |
| 72.5° | 1159.3 | 1150.6 | 1134.7 | 1112.9 | 1165.0 | 1503.1 | 3438.6 | 3918.9 | 4555.8 | 5390.1 | 6282.5 |
| 75° | 1041.8 | 1030.1 | 1011.3 | 983.7 | 1020.0 | 1134.7 | 1651.1 | 1852.8 | 2163.3 | 2607.3 | 3105.0 |
| 77.5° | 919.8 | 905.4 | 887.9 | 867.7 | 914.1 | 882.2 | 967.7 | 1040.3 | 1159.3 | 1301.5 | 1488.6 |
| 80° | 782.0 | 769.0 | 763.2 | 753.0 | 808.1 | 671.8 | 683.3 | 728.3 | 798.0 | 874.9 | 962.0 |
| 82.5° | 612.2 | 612.2 | 635.5 | 639.9 | 700.8 | 483.1 | 510.8 | 549.9 | 586.2 | 626.8 | 667.4 |
| 85° | 403.3 | 406.2 | 484.6 | 515.1 | 552.8 | 325.0 | 383.0 | 396.1 | 425.1 | 448.4 | 465.7 |
| 87.5° | 126.2 | 136.4 | 295.9 | 327.9 | 317.7 | 184.2 | 235.1 | 240.8 | 261.2 | 277.1 | 291.6 |
| 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-06-LED-U-T2R-800

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 |
| 2.5° | 2764.0 | 2746.5 | 2730.6 | 2729.1 | 2717.6 | 2701.6 | 2707.3 | 2682.7 | 2684.2 | 2671.1 | 2656.6 |
| 5° | 3250.0 | 3238.5 | 3180.4 | 3164.4 | 3120.9 | 3093.3 | 3089.0 | 3030.9 | 3023.6 | 2990.3 | 2954.1 |
| 7.5° | 3949.4 | 3911.7 | 3830.3 | 3791.3 | 3717.2 | 3662.1 | 3636.0 | 3559.1 | 3521.3 | 3434.3 | 3395.1 |
| 10° | 4682.0 | 4634.2 | 4534.1 | 4479.0 | 4407.9 | 4319.3 | 4271.4 | 4159.7 | 4116.3 | 4036.5 | 3940.6 |
| 12.5° | 5361.1 | 5313.2 | 5210.2 | 5168.2 | 5073.8 | 4979.5 | 4927.2 | 4801.0 | 4744.4 | 4616.8 | 4541.3 |
| 15° | 5989.4 | 5941.5 | 5851.5 | 5808.0 | 5713.7 | 5636.8 | 5567.1 | 5442.3 | 5375.6 | 5256.6 | 5157.9 |
| 17.5° | 6598.7 | 6547.9 | 6469.6 | 6430.4 | 6339.0 | 6260.7 | 6185.2 | 6067.6 | 5999.5 | 5880.5 | 5792.0 |
| 20° | 7164.5 | 7126.8 | 7070.2 | 7018.1 | 6926.6 | 6855.5 | 6765.6 | 6664.0 | 6565.3 | 6478.2 | 6394.2 |
| 22.5° | 7657.9 | 7643.4 | 7582.4 | 7559.2 | 7480.8 | 7420.0 | 7341.6 | 7241.5 | 7170.4 | 7060.1 | 6981.7 |
| 25° | 8082.9 | 8078.7 | 8049.6 | 8042.3 | 7987.2 | 7929.2 | 7911.8 | 7829.1 | 7763.8 | 7666.6 | 7585.3 |
| 27.5° | 8448.7 | 8452.9 | 8445.7 | 8466.0 | 8451.5 | 8425.4 | 8426.9 | 8399.2 | 8361.6 | 8280.3 | 8209.2 |
| 30° | 8854.9 | 8831.6 | 8844.7 | 8873.7 | 8882.5 | 8885.4 | 8933.2 | 8949.2 | 8946.3 | 8892.6 | 8857.7 |
| 32.5° | 9429.5 | 9374.3 | 9323.5 | 9319.2 | 9348.1 | 9359.8 | 9441.0 | 9483.1 | 9519.4 | 9532.5 | 9538.2 |
| 35° | 10162.1 | 10051.8 | 9945.9 | 9889.4 | 9840.1 | 9853.1 | 9911.2 | 9979.3 | 10059.1 | 10114.2 | 10179.6 |
| 37.5° | 11084.9 | 10950.0 | 10762.8 | 10629.3 | 10595.9 | 10523.4 | 10561.1 | 10614.9 | 10693.2 | 10778.7 | 10892.0 |
| 40° | 12203.6 | 11999.0 | 11788.6 | 11611.6 | 11515.9 | 11382.4 | 11380.9 | 11370.7 | 11418.6 | 11498.4 | 11658.1 |
| 42.5° | 13280.2 | 13098.8 | 12875.4 | 12689.6 | 12564.8 | 12386.4 | 12350.1 | 12255.8 | 12277.6 | 12347.2 | 12502.4 |
| 45° | 14288.5 | 14139.0 | 14002.7 | 13787.9 | 13682.1 | 13489.0 | 13428.1 | 13316.4 | 13254.0 | 13286.0 | 13441.2 |
| 47.5° | 15265.0 | 15169.2 | 15027.0 | 14887.7 | 14806.5 | 14633.8 | 14555.5 | 14475.7 | 14395.9 | 14393.0 | 14555.5 |
| 50° | 17168.6 | 17117.8 | 16949.5 | 16804.4 | 16843.6 | 16631.7 | 16644.7 | 16430.0 | 16527.2 | 16538.9 | 16879.8 |
| 52.5° | 18957.5 | 19134.5 | 19259.3 | 19411.6 | 19510.3 | 19529.2 | 19594.4 | 19691.7 | 19809.2 | 20041.3 | 20357.6 |
| 55° | 19981.8 | 20203.9 | 20333.0 | 20449.1 | 20640.6 | 20681.2 | 20790.0 | 20919.1 | 21022.2 | 21283.3 | 21551.7 |
| 57.5° | 21199.1 | 21611.3 | 21811.5 | 21995.7 | 22254.0 | 22352.6 | 22534.0 | 22674.7 | 22808.2 | 23117.3 | 23442.2 |
| 60° | 21949.3 | 22451.3 | 22859.0 | 23150.6 | 23474.2 | 23706.4 | 23980.5 | 24201.1 | 24514.5 | 24884.5 | 25369.1 |
| 62.5° | 21353.0 | 22090.0 | 22631.3 | 23131.8 | 23571.3 | 24015.4 | 24408.5 | 24820.7 | 25296.6 | 25856.6 | 26608.2 |
| 65° | 18977.8 | 19727.9 | 20655.1 | 21174.5 | 21756.3 | 22441.2 | 23038.9 | 23706.4 | 24354.9 | 25170.3 | 26281.7 |
| 67.5° | 15278.0 | 16150.0 | 17191.8 | 17715.6 | 18384.4 | 19149.0 | 19819.4 | 20634.8 | 21392.2 | 22380.2 | 23754.2 |
| 70° | 11012.4 | 12139.8 | 13016.0 | 13563.1 | 14343.6 | 15131.5 | 15778.6 | 16727.5 | 17354.3 | 18367.0 | 19787.4 |
| 72.5° | 6973.0 | 7862.5 | 8936.1 | 9625.3 | 10318.8 | 11116.8 | 11778.5 | 12596.7 | 13181.4 | 14104.2 | 15391.2 |
| 75° | 3749.1 | 4404.9 | 5348.0 | 6002.4 | 6745.2 | 7427.1 | 8201.9 | 8750.4 | 9182.8 | 9912.6 | 10957.2 |
| 77.5° | 1757.0 | 2156.1 | 2633.4 | 3136.9 | 3640.3 | 4165.6 | 4676.2 | 5120.3 | 5305.9 | 5723.8 | 6340.5 |
| 80° | 1066.4 | 1195.5 | 1334.8 | 1490.0 | 1700.5 | 1870.3 | 2095.1 | 2257.7 | 2269.2 | 2401.3 | 2589.9 |
| 82.5° | 712.4 | 760.3 | 802.3 | 841.5 | 895.2 | 937.3 | 985.2 | 1041.8 | 1065.0 | 1095.5 | 1156.3 |
| 85° | 486.0 | 509.2 | 518.0 | 542.7 | 536.8 | 551.4 | 570.2 | 589.1 | 599.2 | 597.8 | 625.3 |
| 87.5° | 298.9 | 310.5 | 316.3 | 322.1 | 317.7 | 311.9 | 320.7 | 330.8 | 333.7 | 325.0 | 327.9 |
| 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: P191404

CATALOG NUMBER: GAN-AF-06-LED-U-T2R-800

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 | 2491.2 |
| 2.5° | 2659.5 | 2646.5 | 2633.4 | 2624.7 | 2621.8 | 2544.9 | 2511.5 | 2489.8 | 2443.3 | 2405.6 | 2375.1 |
| 5° | 2933.7 | 2906.2 | 2884.4 | 2858.3 | 2843.8 | 2649.3 | 2578.2 | 2528.9 | 2447.7 | 2399.8 | 2356.3 |
| 7.5° | 3374.8 | 3297.9 | 3252.9 | 3202.1 | 3158.7 | 2807.5 | 2690.0 | 2613.1 | 2499.9 | 2436.1 | 2386.7 |
| 10° | 3875.3 | 3795.6 | 3724.5 | 3646.1 | 3578.0 | 3017.9 | 2846.7 | 2727.7 | 2578.2 | 2495.6 | 2430.2 |
| 12.5° | 4434.0 | 4355.6 | 4265.7 | 4165.6 | 4078.5 | 3284.8 | 3046.9 | 2877.2 | 2672.6 | 2562.3 | 2470.9 |
| 15° | 5094.1 | 4956.3 | 4847.5 | 4731.4 | 4629.9 | 3604.1 | 3280.5 | 3045.4 | 2772.7 | 2623.3 | 2501.3 |
| 17.5° | 5707.9 | 5562.8 | 5414.8 | 5313.2 | 5195.7 | 3962.4 | 3515.6 | 3216.7 | 2855.4 | 2662.4 | 2507.2 |
| 20° | 6307.1 | 6149.0 | 6021.3 | 5884.8 | 5761.6 | 4333.8 | 3766.5 | 3367.6 | 2909.1 | 2663.9 | 2470.9 |
| 22.5° | 6835.3 | 6736.5 | 6594.4 | 6446.3 | 6321.6 | 4705.3 | 4001.6 | 3495.2 | 2929.4 | 2630.5 | 2407.0 |
| 25° | 7435.9 | 7331.4 | 7157.3 | 7032.6 | 6893.3 | 5084.0 | 4232.3 | 3593.9 | 2917.8 | 2568.1 | 2308.4 |
| 27.5° | 8077.2 | 7961.1 | 7782.6 | 7652.1 | 7483.8 | 5477.2 | 4444.1 | 3665.0 | 2874.3 | 2466.5 | 2176.3 |
| 30° | 8746.0 | 8640.1 | 8464.6 | 8332.5 | 8162.7 | 5893.5 | 4680.6 | 3712.9 | 2787.2 | 2325.8 | 2022.6 |
| 32.5° | 9464.2 | 9375.8 | 9201.6 | 9063.8 | 8882.5 | 6344.9 | 4901.2 | 3727.3 | 2655.2 | 2158.9 | 1860.0 |
| 35° | 10146.1 | 10085.3 | 9938.7 | 9809.6 | 9621.0 | 6771.3 | 5134.7 | 3720.2 | 2498.5 | 1976.1 | 1712.1 |
| 37.5° | 10913.7 | 10877.4 | 10804.9 | 10640.9 | 10410.3 | 7350.3 | 5414.8 | 3689.7 | 2307.0 | 1794.8 | 1598.9 |
| 40° | 11732.0 | 11734.9 | 11656.5 | 11544.8 | 11330.1 | 8052.6 | 5748.5 | 3630.1 | 2098.0 | 1635.2 | 1495.9 |
| 42.5° | 12598.3 | 12643.2 | 12605.4 | 12525.6 | 12319.6 | 8760.6 | 6147.5 | 3557.6 | 1894.9 | 1479.9 | 1394.3 |
| 45° | 13590.6 | 13645.8 | 13703.8 | 13586.2 | 13386.0 | 9694.9 | 6672.7 | 3463.3 | 1675.8 | 1350.8 | 1324.7 |
| 47.5° | 14735.4 | 14822.5 | 14874.6 | 14876.2 | 14675.9 | 10852.8 | 7525.8 | 3406.7 | 1481.3 | 1263.8 | 1291.3 |
| 50° | 17151.1 | 17178.7 | 17302.0 | 17516.8 | 17363.0 | 13532.6 | 9015.9 | 3372.0 | 1349.4 | 1210.0 | 1266.6 |
| 52.5° | 20631.9 | 20935.1 | 21148.4 | 21133.9 | 20925.0 | 15234.5 | 9837.1 | 3192.0 | 1271.0 | 1189.7 | 1255.1 |
| 55° | 22049.4 | 22428.1 | 22822.7 | 22927.2 | 22764.6 | 16686.9 | 10613.3 | 3012.1 | 1233.3 | 1204.2 | 1259.4 |
| 57.5° | 23938.5 | 24576.9 | 25118.0 | 25345.9 | 25110.8 | 18545.5 | 11634.8 | 2917.8 | 1221.7 | 1243.4 | 1287.0 |
| 60° | 26145.3 | 26934.6 | 27645.6 | 28054.7 | 28054.7 | 20681.2 | 12694.0 | 2878.6 | 1205.8 | 1301.5 | 1333.4 |
| 62.5° | 27562.8 | 28722.1 | 29795.8 | 30395.0 | 30377.5 | 22168.4 | 13164.0 | 2745.1 | 1169.4 | 1342.1 | 1397.2 |
| 65° | 27568.6 | 28947.0 | 30315.2 | 30988.5 | 31023.2 | 21985.6 | 12387.8 | 2424.5 | 1102.6 | 1347.8 | 1461.1 |
| 67.5° | 25270.4 | 26740.1 | 28334.7 | 29087.7 | 29261.8 | 20238.7 | 10723.6 | 1993.5 | 993.9 | 1289.8 | 1484.3 |
| 70° | 21342.8 | 22777.7 | 24405.7 | 25145.7 | 25454.7 | 17252.7 | 8637.3 | 1536.5 | 854.6 | 1162.2 | 1436.4 |
| 72.5° | 16814.5 | 18221.9 | 19355.0 | 19896.3 | 20137.1 | 13187.3 | 6289.7 | 1160.7 | 700.8 | 979.4 | 1307.2 |
| 75° | 11904.7 | 12960.9 | 13563.1 | 13683.5 | 13721.2 | 7949.6 | 3821.6 | 863.3 | 577.5 | 761.7 | 1104.2 |
| 77.5° | 6719.2 | 7171.8 | 7122.5 | 7176.2 | 6729.3 | 3068.6 | 1664.1 | 618.1 | 475.9 | 578.9 | 856.0 |
| 80° | 2623.3 | 2704.5 | 2540.5 | 2489.8 | 2283.7 | 1141.8 | 734.2 | 431.0 | 380.1 | 438.1 | 599.2 |
| 82.5° | 1156.3 | 1194.1 | 1159.3 | 1168.0 | 1117.2 | 589.1 | 439.7 | 311.9 | 290.2 | 320.7 | 397.5 |
| 85° | 637.0 | 648.6 | 645.7 | 664.5 | 637.0 | 235.1 | 208.9 | 191.5 | 203.2 | 217.7 | 255.3 |
| 87.5° | 310.5 | 313.4 | 303.2 | 319.2 | 309.0 | 119.0 | 103.0 | 108.8 | 119.0 | 121.8 | 121.8 |
| 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° | 2353.4 | 2341.7 | 2343.2 | 2340.3 | 2334.5 | 2334.5 |
| 5° | 2333.0 | 2321.5 | 2321.5 | 2318.5 | 2311.3 | 2312.8 |
| 7.5° | 2353.4 | 2334.5 | 2327.2 | 2317.1 | 2307.0 | 2307.0 |
| 10° | 2376.6 | 2343.2 | 2322.9 | 2305.5 | 2292.4 | 2292.4 |
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| 22.5° | 2235.9 | 2119.8 | 2040.0 | 2002.2 | 1976.1 | 1971.7 |
| 25° | 2113.9 | 1989.2 | 1910.9 | 1874.6 | 1860.0 | 1855.7 |
| 27.5° | 1971.7 | 1855.7 | 1788.9 | 1765.7 | 1752.7 | 1751.3 |
| 30° | 1836.8 | 1738.2 | 1688.9 | 1671.4 | 1655.4 | 1652.6 |
| 32.5° | 1710.6 | 1648.2 | 1629.4 | 1604.7 | 1567.0 | 1562.7 |
| 35° | 1620.7 | 1614.8 | 1601.8 | 1546.7 | 1500.3 | 1487.2 |
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| 40° | 1533.6 | 1574.2 | 1459.6 | 1421.9 | 1424.8 | 1421.9 |
| 42.5° | 1461.1 | 1503.1 | 1462.5 | 1445.1 | 1456.7 | 1459.6 |
| 45° | 1388.6 | 1435.0 | 1484.3 | 1472.6 | 1500.3 | 1500.3 |
| 47.5° | 1347.8 | 1417.5 | 1482.9 | 1482.9 | 1523.5 | 1538.0 |
| 50° | 1301.5 | 1403.0 | 1459.6 | 1479.9 | 1511.8 | 1500.3 |
| 52.5° | 1298.5 | 1378.3 | 1426.2 | 1462.5 | 1477.0 | 1463.9 |
| 55° | 1302.9 | 1358.1 | 1392.8 | 1433.5 | 1451.0 | 1452.4 |
| 57.5° | 1308.8 | 1346.4 | 1369.6 | 1388.6 | 1440.7 | 1440.7 |
| 60° | 1323.2 | 1336.3 | 1349.4 | 1359.5 | 1427.7 | 1429.2 |
| 62.5° | 1346.4 | 1326.2 | 1323.2 | 1333.4 | 1420.5 | 1414.6 |
| 65° | 1382.7 | 1311.6 | 1289.8 | 1300.0 | 1413.2 | 1395.8 |
| 67.5° | 1432.0 | 1289.8 | 1247.8 | 1255.1 | 1407.4 | 1369.6 |
| 70° | 1477.0 | 1255.1 | 1195.5 | 1188.3 | 1352.2 | 1285.5 |
| 72.5° | 1481.3 | 1214.4 | 1123.0 | 1101.2 | 1175.3 | 1111.4 |
| 75° | 1408.8 | 1186.8 | 1043.2 | 979.4 | 970.7 | 962.0 |
| 77.5° | 1269.6 | 1170.9 | 950.3 | 850.3 | 832.8 | 838.6 |
| 80° | 1062.0 | 1111.4 | 838.6 | 719.6 | 814.0 | 803.8 |
| 82.5° | 793.6 | 980.8 | 712.4 | 637.0 | 635.5 | 561.5 |
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