

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: P193135

Luminaire Tested: **GAN-AF-07-LED-U-T2R-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193135
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-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 27950.7 lumens
Efficiency: N/A
Efficacy: 123.7 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

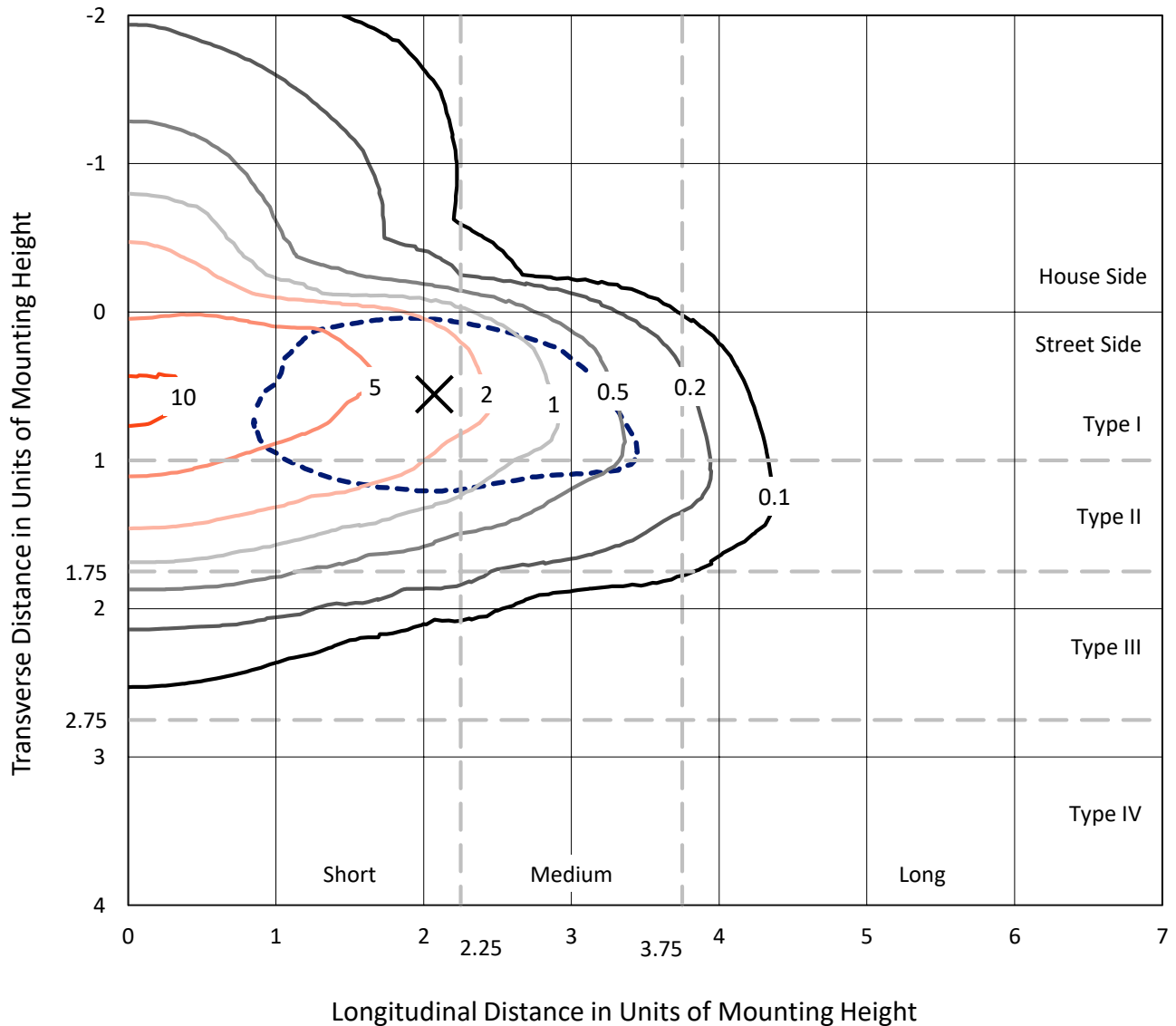
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193135
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Iso-Footcandle Lines of Horizontal Illumination

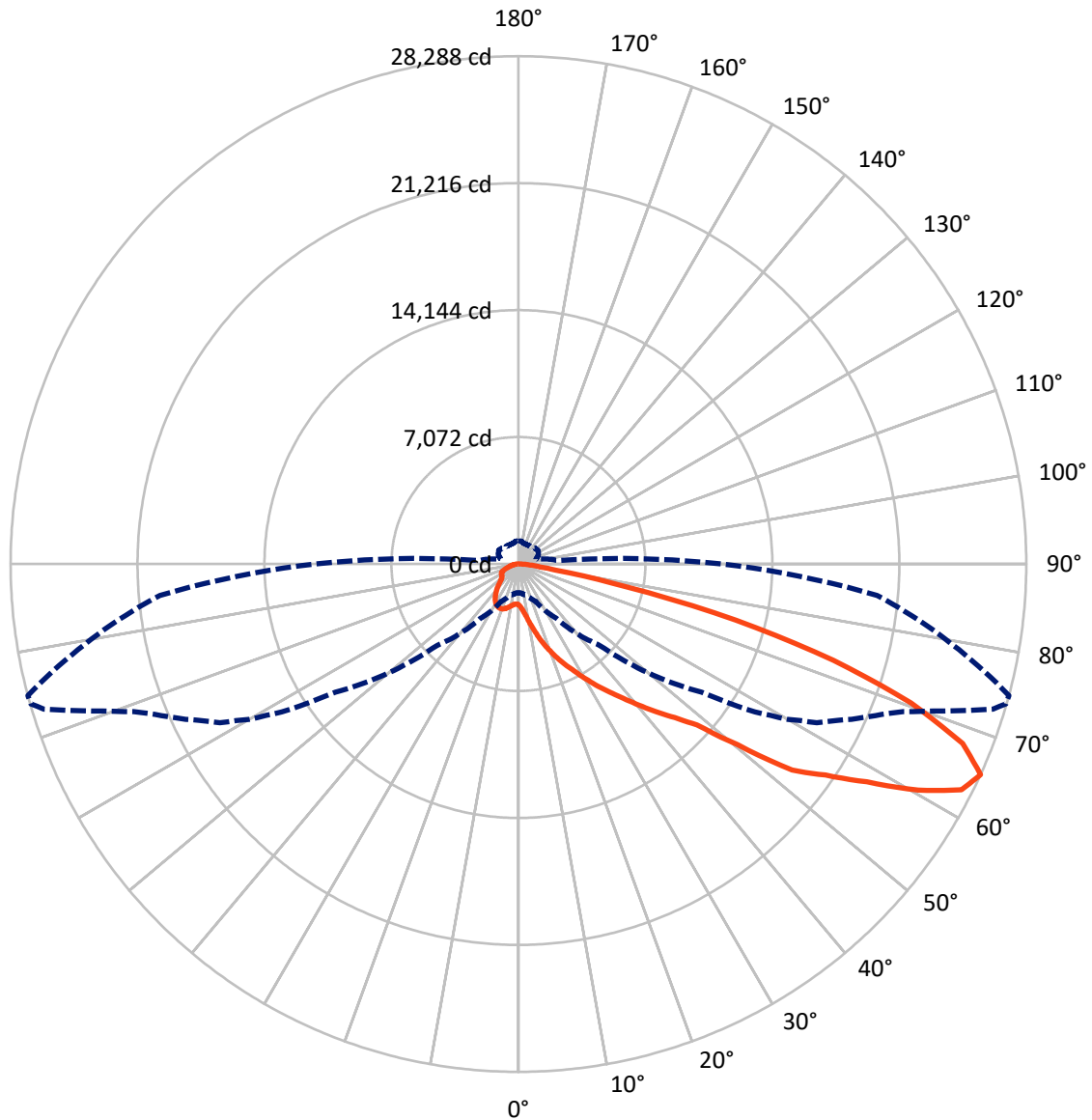
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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 | 4309.3 | 0.0 | 4309.3 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 23641.4 | 0.0 | 23641.4 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 27950.7 | 0.0 | 27950.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 280.8 | 1.0 |
| 10°-20° | 1097.0 | 3.9 |
| 20°-30° | 2250.7 | 8.1 |
| 30°-40° | 3786.8 | 13.5 |
| 40°-50° | 5232.2 | 18.7 |
| 50°-60° | 6531.4 | 23.4 |
| 60°-70° | 5877.5 | 21.0 |
| 70°-80° | 2463.8 | 8.8 |
| 80°-90° | 430.4 | 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° | 27950.7 | 100.0 |
| 0°-180° | 27950.7 | 100.0 |



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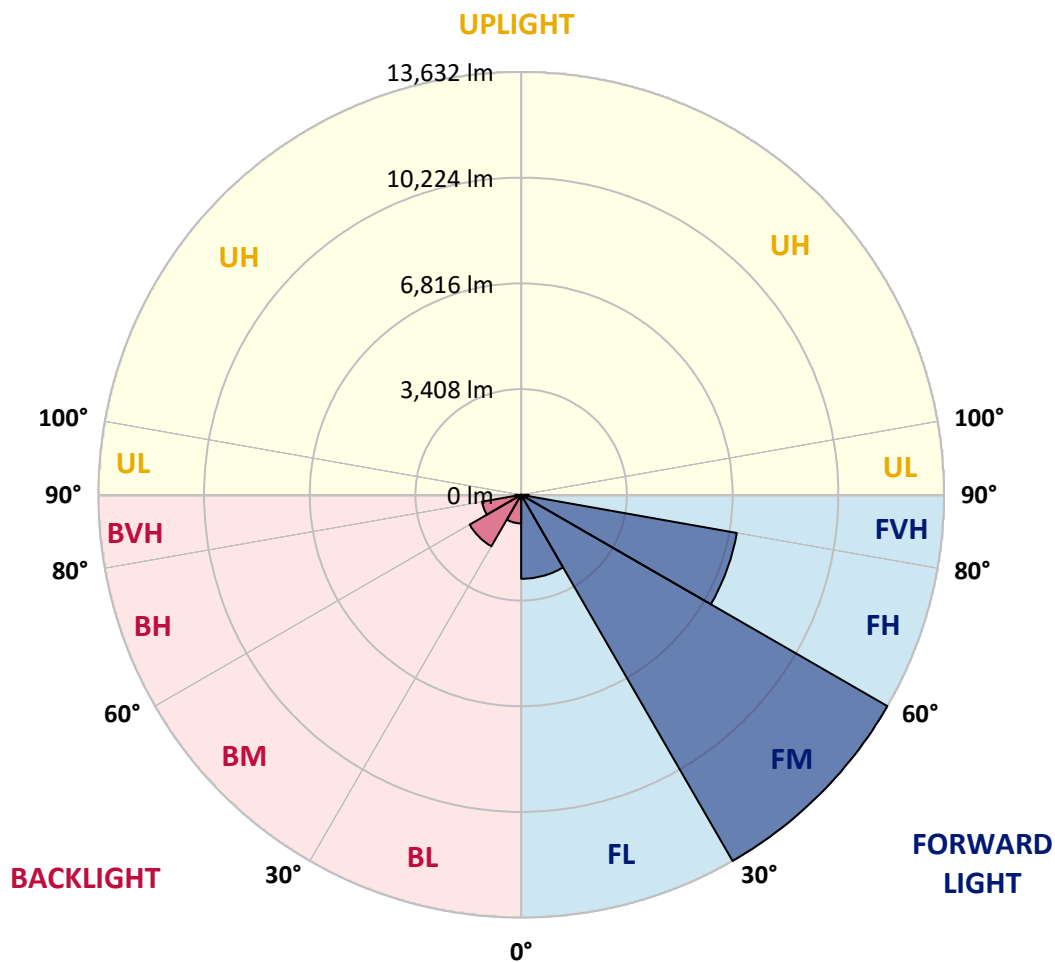
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-7030-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2706.9 | 9.7 | | | |
| FM | (30°-60°) | 13632.2 | 48.8 | | | |
| FH | (60°-80°) | 7060.2 | 25.3 | | | G3/7500 |
| FVH | (80°-90°) | 241.9 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 921.6 | 3.3 | B2/1000 | | |
| BM | (30°-60°) | 1918.1 | 6.9 | B2/2500 | | |
| BH | (60°-80°) | 1281.1 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 188.5 | 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





REPORT NUMBER: P193135

CATALOG NUMBER: GAN-AF-07-LED-U-T2R-7030-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 |
| 2.5° | 2884.0 | 2852.3 | 2860.3 | 2807.3 | 2742.5 | 2657.8 | 2563.9 | 2562.5 | 2563.9 | 2554.6 | 2520.3 |
| 5° | 3999.3 | 3960.9 | 3946.5 | 3827.4 | 3652.7 | 3404.0 | 3134.1 | 3105.0 | 3093.1 | 3062.6 | 2992.5 |
| 7.5° | 4813.0 | 4791.8 | 4769.2 | 4679.3 | 4520.6 | 4242.7 | 3880.3 | 3818.1 | 3758.5 | 3744.0 | 3664.7 |
| 10° | 5338.2 | 5332.8 | 5285.2 | 5261.4 | 5162.2 | 4921.5 | 4568.2 | 4508.7 | 4443.8 | 4421.4 | 4338.0 |
| 12.5° | 5753.6 | 5752.3 | 5729.8 | 5736.3 | 5650.4 | 5475.7 | 5171.5 | 5117.2 | 5069.6 | 5000.8 | 4941.2 |
| 15° | 6040.6 | 6041.9 | 6075.1 | 6112.1 | 6098.9 | 5981.1 | 5695.3 | 5671.5 | 5630.5 | 5582.9 | 5512.7 |
| 17.5° | 6276.2 | 6282.7 | 6317.2 | 6384.7 | 6457.4 | 6448.2 | 6221.9 | 6202.1 | 6166.4 | 6101.5 | 6064.4 |
| 20° | 6808.0 | 6833.1 | 6767.0 | 6767.0 | 6774.9 | 6810.5 | 6702.2 | 6686.2 | 6636.0 | 6601.6 | 6572.5 |
| 22.5° | 7706.3 | 7735.3 | 7585.9 | 7433.8 | 7284.2 | 7175.7 | 7067.3 | 7087.1 | 7052.6 | 7028.8 | 7011.7 |
| 25° | 8873.2 | 8895.6 | 8653.6 | 8396.9 | 8092.7 | 7695.6 | 7427.1 | 7415.2 | 7396.8 | 7382.1 | 7374.2 |
| 27.5° | 9971.2 | 9980.4 | 9751.6 | 9375.9 | 9022.6 | 8452.4 | 7792.3 | 7777.7 | 7755.2 | 7727.5 | 7703.7 |
| 30° | 10910.5 | 10907.8 | 10672.3 | 10313.8 | 9935.5 | 9304.4 | 8346.6 | 8301.6 | 8235.4 | 8160.0 | 8101.8 |
| 32.5° | 11724.1 | 11720.1 | 11462.2 | 11090.4 | 10693.5 | 10148.4 | 9106.0 | 9013.4 | 8910.2 | 8763.3 | 8674.6 |
| 35° | 12364.5 | 12361.8 | 12118.4 | 11730.7 | 11275.7 | 10943.5 | 9976.5 | 9862.8 | 9731.7 | 9534.6 | 9398.4 |
| 37.5° | 12606.6 | 12606.6 | 12470.3 | 12205.7 | 11803.5 | 11575.9 | 10943.5 | 10806.0 | 10665.8 | 10442.1 | 10288.7 |
| 40° | 12465.0 | 12467.6 | 12496.7 | 12447.8 | 12252.0 | 12077.3 | 11845.8 | 11763.8 | 11643.4 | 11442.2 | 11282.2 |
| 42.5° | 11990.0 | 12004.6 | 12197.7 | 12434.6 | 12532.5 | 12504.6 | 12646.2 | 12609.2 | 12524.5 | 12369.7 | 12242.7 |
| 45° | 11388.1 | 11433.1 | 11644.8 | 12091.9 | 12610.4 | 12873.8 | 13316.9 | 13320.9 | 13305.0 | 13221.7 | 13123.7 |
| 47.5° | 10561.2 | 10624.7 | 10903.8 | 11508.5 | 12427.9 | 13232.3 | 13998.3 | 14034.1 | 14067.1 | 14012.8 | 13967.8 |
| 50° | 9463.2 | 9538.6 | 9956.6 | 10758.3 | 12056.2 | 13604.1 | 15285.5 | 15447.0 | 15597.8 | 15579.3 | 15609.7 |
| 52.5° | 8287.1 | 8375.7 | 8887.7 | 9780.7 | 11417.1 | 13690.0 | 16108.4 | 16371.6 | 16634.9 | 16850.6 | 17079.5 |
| 55° | 7226.1 | 7178.5 | 7690.4 | 8631.1 | 10366.7 | 13302.5 | 16848.0 | 17165.5 | 17459.2 | 17723.7 | 17996.3 |
| 57.5° | 5788.0 | 5866.0 | 6379.3 | 7309.3 | 8976.3 | 12208.3 | 17357.3 | 17821.6 | 18243.7 | 18681.5 | 19067.9 |
| 60° | 4230.8 | 4308.8 | 4865.9 | 5810.4 | 7466.8 | 10549.3 | 16968.3 | 17672.1 | 18348.2 | 19019.0 | 19542.8 |
| 62.5° | 2554.6 | 2612.8 | 3103.7 | 4003.3 | 5757.5 | 8582.1 | 15235.2 | 16158.7 | 17153.6 | 17955.2 | 18758.2 |
| 65° | 1590.2 | 1623.3 | 1804.5 | 2299.4 | 3697.7 | 6407.1 | 12447.8 | 13454.5 | 14526.1 | 15543.6 | 16378.3 |
| 67.5° | 1301.9 | 1313.8 | 1346.7 | 1452.6 | 2030.8 | 4178.0 | 9264.7 | 10156.4 | 11123.4 | 12107.8 | 13036.5 |
| 70° | 1170.8 | 1162.8 | 1162.8 | 1169.5 | 1301.9 | 2246.4 | 6065.7 | 6646.6 | 7452.2 | 8308.2 | 9157.6 |
| 72.5° | 1057.1 | 1049.1 | 1034.5 | 1014.7 | 1062.3 | 1370.5 | 3135.4 | 3573.4 | 4154.1 | 4914.8 | 5728.5 |
| 75° | 949.9 | 939.3 | 922.1 | 897.0 | 930.1 | 1034.5 | 1505.5 | 1689.4 | 1972.5 | 2377.4 | 2831.1 |
| 77.5° | 838.8 | 825.6 | 809.6 | 791.1 | 833.4 | 804.3 | 882.4 | 948.6 | 1057.1 | 1186.7 | 1357.3 |
| 80° | 713.0 | 701.1 | 695.9 | 686.5 | 736.9 | 612.5 | 623.1 | 664.1 | 727.6 | 797.7 | 877.2 |
| 82.5° | 558.4 | 558.4 | 579.5 | 583.5 | 638.9 | 440.6 | 465.7 | 501.4 | 534.5 | 571.5 | 608.6 |
| 85° | 367.7 | 370.4 | 441.9 | 469.7 | 504.0 | 296.3 | 349.3 | 361.2 | 387.7 | 408.8 | 424.7 |
| 87.5° | 115.0 | 124.3 | 269.9 | 299.1 | 289.7 | 168.0 | 214.3 | 219.6 | 238.1 | 252.7 | 265.9 |
| 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-7030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 |
| 2.5° | 2520.3 | 2504.3 | 2489.8 | 2488.5 | 2477.9 | 2463.4 | 2468.6 | 2446.2 | 2447.5 | 2435.6 | 2422.4 |
| 5° | 2963.4 | 2952.8 | 2900.0 | 2885.4 | 2845.6 | 2820.5 | 2816.6 | 2763.7 | 2757.0 | 2726.7 | 2693.6 |
| 7.5° | 3601.0 | 3566.7 | 3492.6 | 3456.9 | 3389.4 | 3339.2 | 3315.4 | 3245.2 | 3210.8 | 3131.5 | 3095.8 |
| 10° | 4269.2 | 4225.6 | 4134.3 | 4084.0 | 4019.2 | 3938.5 | 3894.8 | 3792.9 | 3753.3 | 3680.5 | 3593.2 |
| 12.5° | 4888.4 | 4844.7 | 4750.8 | 4712.4 | 4626.4 | 4540.4 | 4492.7 | 4377.7 | 4326.1 | 4209.6 | 4140.9 |
| 15° | 5461.3 | 5417.5 | 5335.5 | 5295.8 | 5209.8 | 5139.7 | 5076.1 | 4962.4 | 4901.6 | 4793.1 | 4703.2 |
| 17.5° | 6016.8 | 5970.6 | 5899.1 | 5863.4 | 5780.1 | 5708.6 | 5639.8 | 5532.7 | 5470.5 | 5362.0 | 5281.3 |
| 20° | 6532.8 | 6498.4 | 6446.9 | 6399.2 | 6315.8 | 6251.0 | 6169.0 | 6076.4 | 5986.5 | 5907.0 | 5830.3 |
| 22.5° | 6982.6 | 6969.3 | 6913.8 | 6892.6 | 6821.2 | 6765.7 | 6694.2 | 6602.9 | 6538.1 | 6437.5 | 6366.1 |
| 25° | 7370.2 | 7366.3 | 7339.8 | 7333.2 | 7282.9 | 7230.0 | 7214.2 | 7138.7 | 7079.2 | 6990.5 | 6916.4 |
| 27.5° | 7703.7 | 7707.5 | 7700.9 | 7719.5 | 7706.3 | 7682.4 | 7683.7 | 7658.6 | 7624.2 | 7550.2 | 7485.4 |
| 30° | 8074.0 | 8052.9 | 8064.8 | 8091.2 | 8099.2 | 8101.8 | 8145.5 | 8160.0 | 8157.4 | 8108.4 | 8076.7 |
| 32.5° | 8597.9 | 8547.7 | 8501.4 | 8497.4 | 8523.9 | 8534.5 | 8608.5 | 8646.9 | 8680.0 | 8691.9 | 8697.1 |
| 35° | 9266.1 | 9165.5 | 9068.9 | 9017.2 | 8972.4 | 8984.3 | 9037.2 | 9099.3 | 9172.1 | 9222.3 | 9281.9 |
| 37.5° | 10107.5 | 9984.4 | 9813.7 | 9692.1 | 9661.6 | 9595.4 | 9629.9 | 9678.8 | 9750.3 | 9828.3 | 9931.4 |
| 40° | 11127.4 | 10940.9 | 10749.0 | 10587.7 | 10500.4 | 10378.6 | 10377.3 | 10368.0 | 10411.8 | 10484.5 | 10630.1 |
| 42.5° | 12109.1 | 11943.6 | 11740.0 | 11570.7 | 11456.8 | 11294.1 | 11261.1 | 11175.0 | 11194.9 | 11258.4 | 11400.0 |
| 45° | 13028.5 | 12892.3 | 12767.9 | 12572.1 | 12475.6 | 12299.7 | 12244.0 | 12142.2 | 12085.2 | 12114.3 | 12255.9 |
| 47.5° | 13918.9 | 13831.5 | 13701.9 | 13574.9 | 13500.8 | 13343.4 | 13271.9 | 13199.2 | 13126.4 | 13123.7 | 13271.9 |
| 50° | 15654.6 | 15608.3 | 15454.8 | 15322.5 | 15358.2 | 15165.1 | 15177.1 | 14981.2 | 15069.9 | 15080.5 | 15391.4 |
| 52.5° | 17285.8 | 17447.3 | 17561.0 | 17699.9 | 17789.9 | 17807.1 | 17866.6 | 17955.2 | 18062.4 | 18274.1 | 18562.5 |
| 55° | 18219.8 | 18422.3 | 18539.9 | 18645.8 | 18820.5 | 18857.5 | 18956.7 | 19074.5 | 19168.5 | 19406.5 | 19651.3 |
| 57.5° | 19329.8 | 19705.6 | 19888.1 | 20056.1 | 20291.6 | 20381.5 | 20547.0 | 20675.2 | 20797.0 | 21078.8 | 21375.2 |
| 60° | 20013.8 | 20471.6 | 20843.3 | 21109.2 | 21404.2 | 21616.0 | 21865.9 | 22067.1 | 22352.8 | 22690.2 | 23132.1 |
| 62.5° | 19470.1 | 20142.2 | 20635.6 | 21092.1 | 21492.8 | 21897.7 | 22256.2 | 22632.0 | 23065.8 | 23576.5 | 24261.9 |
| 65° | 17304.4 | 17988.3 | 18833.7 | 19307.3 | 19837.8 | 20462.3 | 21007.4 | 21616.0 | 22207.3 | 22950.8 | 23964.2 |
| 67.5° | 13930.8 | 14726.0 | 15675.8 | 16153.4 | 16763.3 | 17460.5 | 18071.7 | 18815.2 | 19505.8 | 20406.7 | 21659.5 |
| 70° | 10041.3 | 11069.3 | 11868.3 | 12367.0 | 13078.8 | 13797.1 | 14387.3 | 15252.5 | 15824.0 | 16747.4 | 18042.6 |
| 72.5° | 6358.2 | 7169.1 | 8148.1 | 8776.6 | 9409.0 | 10136.5 | 10739.8 | 11486.0 | 12019.2 | 12860.6 | 14034.1 |
| 75° | 3418.5 | 4016.5 | 4876.5 | 5473.2 | 6150.4 | 6772.2 | 7478.7 | 7978.7 | 8373.1 | 9038.5 | 9991.0 |
| 77.5° | 1602.1 | 1965.9 | 2401.2 | 2860.3 | 3319.3 | 3798.2 | 4264.0 | 4668.7 | 4838.1 | 5219.1 | 5781.4 |
| 80° | 972.4 | 1090.1 | 1217.1 | 1358.6 | 1550.5 | 1705.3 | 1910.4 | 2058.6 | 2069.2 | 2189.5 | 2361.5 |
| 82.5° | 649.5 | 693.2 | 731.6 | 767.3 | 816.2 | 854.6 | 898.3 | 949.9 | 971.1 | 998.8 | 1054.4 |
| 85° | 443.1 | 464.4 | 472.3 | 494.8 | 489.5 | 502.7 | 520.0 | 537.1 | 546.4 | 545.1 | 570.3 |
| 87.5° | 272.5 | 283.1 | 288.5 | 293.7 | 289.7 | 284.4 | 292.4 | 301.7 | 304.3 | 296.3 | 299.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 | 2271.5 |
| 2.5° | 2425.0 | 2413.1 | 2401.2 | 2393.3 | 2390.6 | 2320.4 | 2290.1 | 2270.2 | 2227.9 | 2193.5 | 2165.7 |
| 5° | 2675.0 | 2649.9 | 2630.1 | 2606.3 | 2593.0 | 2415.7 | 2350.9 | 2305.9 | 2231.8 | 2188.1 | 2148.5 |
| 7.5° | 3077.2 | 3007.2 | 2966.1 | 2919.7 | 2880.1 | 2560.0 | 2452.8 | 2382.6 | 2279.4 | 2221.2 | 2176.2 |
| 10° | 3533.7 | 3460.9 | 3396.0 | 3324.6 | 3262.5 | 2751.8 | 2595.7 | 2487.2 | 2350.9 | 2275.6 | 2216.0 |
| 12.5° | 4043.0 | 3971.6 | 3889.5 | 3798.2 | 3718.8 | 2995.3 | 2778.3 | 2623.5 | 2436.9 | 2336.4 | 2253.0 |
| 15° | 4644.9 | 4519.3 | 4420.0 | 4314.2 | 4221.6 | 3286.2 | 2991.2 | 2777.0 | 2528.2 | 2391.9 | 2280.8 |
| 17.5° | 5204.6 | 5072.3 | 4937.3 | 4844.7 | 4737.5 | 3612.9 | 3205.5 | 2933.1 | 2603.5 | 2427.6 | 2286.0 |
| 20° | 5751.0 | 5606.7 | 5490.3 | 5365.9 | 5253.5 | 3951.7 | 3434.4 | 3070.6 | 2652.6 | 2429.0 | 2253.0 |
| 22.5° | 6232.4 | 6142.5 | 6012.9 | 5877.9 | 5764.2 | 4290.4 | 3648.7 | 3187.0 | 2671.1 | 2398.6 | 2194.8 |
| 25° | 6780.2 | 6684.9 | 6526.2 | 6412.4 | 6285.3 | 4635.7 | 3859.0 | 3277.0 | 2660.5 | 2341.7 | 2104.9 |
| 27.5° | 7364.9 | 7259.0 | 7096.4 | 6977.3 | 6823.9 | 4994.2 | 4052.2 | 3341.8 | 2620.8 | 2249.0 | 1984.4 |
| 30° | 7974.9 | 7878.2 | 7718.2 | 7597.8 | 7443.0 | 5373.9 | 4267.8 | 3385.5 | 2541.4 | 2120.7 | 1844.2 |
| 32.5° | 8629.8 | 8549.0 | 8390.2 | 8264.6 | 8099.2 | 5785.3 | 4468.9 | 3398.7 | 2421.0 | 1968.6 | 1696.0 |
| 35° | 9251.5 | 9196.0 | 9062.3 | 8944.5 | 8772.5 | 6174.2 | 4682.0 | 3392.1 | 2278.2 | 1801.9 | 1561.1 |
| 37.5° | 9951.4 | 9918.2 | 9852.1 | 9702.7 | 9492.2 | 6702.2 | 4937.3 | 3364.3 | 2103.5 | 1636.4 | 1457.9 |
| 40° | 10697.5 | 10700.1 | 10628.7 | 10526.8 | 10331.0 | 7342.4 | 5241.6 | 3310.0 | 1913.0 | 1491.0 | 1364.0 |
| 42.5° | 11487.3 | 11528.3 | 11494.0 | 11421.2 | 11233.3 | 7988.1 | 5605.4 | 3243.9 | 1727.8 | 1349.5 | 1271.3 |
| 45° | 12392.1 | 12442.5 | 12495.4 | 12388.3 | 12205.7 | 8840.0 | 6084.3 | 3157.9 | 1528.0 | 1231.7 | 1207.9 |
| 47.5° | 13436.0 | 13515.4 | 13563.0 | 13564.3 | 13381.7 | 9895.7 | 6862.2 | 3106.3 | 1350.8 | 1152.2 | 1177.5 |
| 50° | 15638.8 | 15663.9 | 15776.4 | 15972.2 | 15831.8 | 12339.3 | 8220.8 | 3074.5 | 1230.4 | 1103.3 | 1155.0 |
| 52.5° | 18812.6 | 19089.0 | 19283.5 | 19270.3 | 19079.8 | 13891.1 | 8969.7 | 2910.5 | 1158.9 | 1084.8 | 1144.4 |
| 55° | 20105.2 | 20450.4 | 20810.2 | 20905.4 | 20757.3 | 15215.5 | 9677.5 | 2746.4 | 1124.5 | 1098.0 | 1148.4 |
| 57.5° | 21827.6 | 22409.7 | 22903.2 | 23110.8 | 22896.6 | 16910.2 | 10608.8 | 2660.5 | 1113.9 | 1133.8 | 1173.5 |
| 60° | 23839.9 | 24559.6 | 25207.7 | 25580.9 | 25580.9 | 18857.5 | 11574.6 | 2624.7 | 1099.3 | 1186.7 | 1215.8 |
| 62.5° | 25132.4 | 26189.5 | 27168.4 | 27714.8 | 27698.9 | 20213.6 | 12003.2 | 2503.0 | 1066.3 | 1223.7 | 1274.0 |
| 65° | 25137.6 | 26394.5 | 27642.0 | 28255.9 | 28287.7 | 20046.9 | 11295.4 | 2210.7 | 1005.4 | 1229.0 | 1332.2 |
| 67.5° | 23042.0 | 24382.2 | 25836.2 | 26522.8 | 26681.5 | 18454.0 | 9778.0 | 1817.7 | 906.2 | 1176.0 | 1353.4 |
| 70° | 19460.8 | 20769.2 | 22253.6 | 22928.3 | 23210.1 | 15731.3 | 7875.6 | 1401.0 | 779.2 | 1059.7 | 1309.7 |
| 72.5° | 15331.8 | 16615.0 | 17648.3 | 18141.9 | 18361.4 | 12024.4 | 5735.0 | 1058.4 | 638.9 | 892.9 | 1192.0 |
| 75° | 10854.9 | 11818.0 | 12367.0 | 12476.9 | 12511.3 | 7248.5 | 3484.8 | 787.2 | 526.5 | 694.6 | 1006.9 |
| 77.5° | 6126.6 | 6539.3 | 6494.5 | 6543.4 | 6135.9 | 2798.0 | 1517.4 | 563.6 | 434.0 | 527.8 | 780.5 |
| 80° | 2391.9 | 2466.0 | 2316.6 | 2270.2 | 2082.4 | 1041.1 | 669.4 | 392.9 | 346.6 | 399.6 | 546.4 |
| 82.5° | 1054.4 | 1088.8 | 1057.1 | 1065.0 | 1018.8 | 537.1 | 400.9 | 284.4 | 264.6 | 292.4 | 362.5 |
| 85° | 580.8 | 591.3 | 588.7 | 606.0 | 580.8 | 214.3 | 190.5 | 174.6 | 185.2 | 198.5 | 232.8 |
| 87.5° | 283.1 | 285.7 | 276.5 | 291.0 | 281.8 | 108.5 | 94.0 | 99.2 | 108.5 | 111.1 | 111.1 |
| 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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| 42.5° | 1332.2 | 1370.5 | 1333.5 | 1317.6 | 1328.3 | 1330.9 |
| 45° | 1266.1 | 1308.4 | 1353.4 | 1342.8 | 1367.9 | 1367.9 |
| 47.5° | 1229.0 | 1292.5 | 1352.1 | 1352.1 | 1389.1 | 1402.4 |
| 50° | 1186.7 | 1279.3 | 1330.9 | 1349.5 | 1378.6 | 1367.9 |
| 52.5° | 1184.1 | 1256.8 | 1300.5 | 1333.5 | 1346.7 | 1334.8 |
| 55° | 1187.9 | 1238.4 | 1270.0 | 1307.1 | 1322.9 | 1324.3 |
| 57.5° | 1193.3 | 1227.7 | 1248.9 | 1266.1 | 1313.8 | 1313.8 |
| 60° | 1206.5 | 1218.5 | 1230.4 | 1239.6 | 1301.9 | 1303.1 |
| 62.5° | 1227.7 | 1209.2 | 1206.5 | 1215.8 | 1295.2 | 1290.0 |
| 65° | 1260.8 | 1196.0 | 1176.0 | 1185.4 | 1288.6 | 1272.7 |
| 67.5° | 1305.7 | 1176.0 | 1137.7 | 1144.4 | 1283.2 | 1248.9 |
| 70° | 1346.7 | 1144.4 | 1090.1 | 1083.6 | 1233.0 | 1172.2 |
| 72.5° | 1350.8 | 1107.4 | 1024.0 | 1004.1 | 1071.7 | 1013.4 |
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