

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: P193935

Luminaire Tested: **GAN-AF-07-LED-U-T2R-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193935
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-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 23582 lumens
Efficiency: N/A
Efficacy: 104.3 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

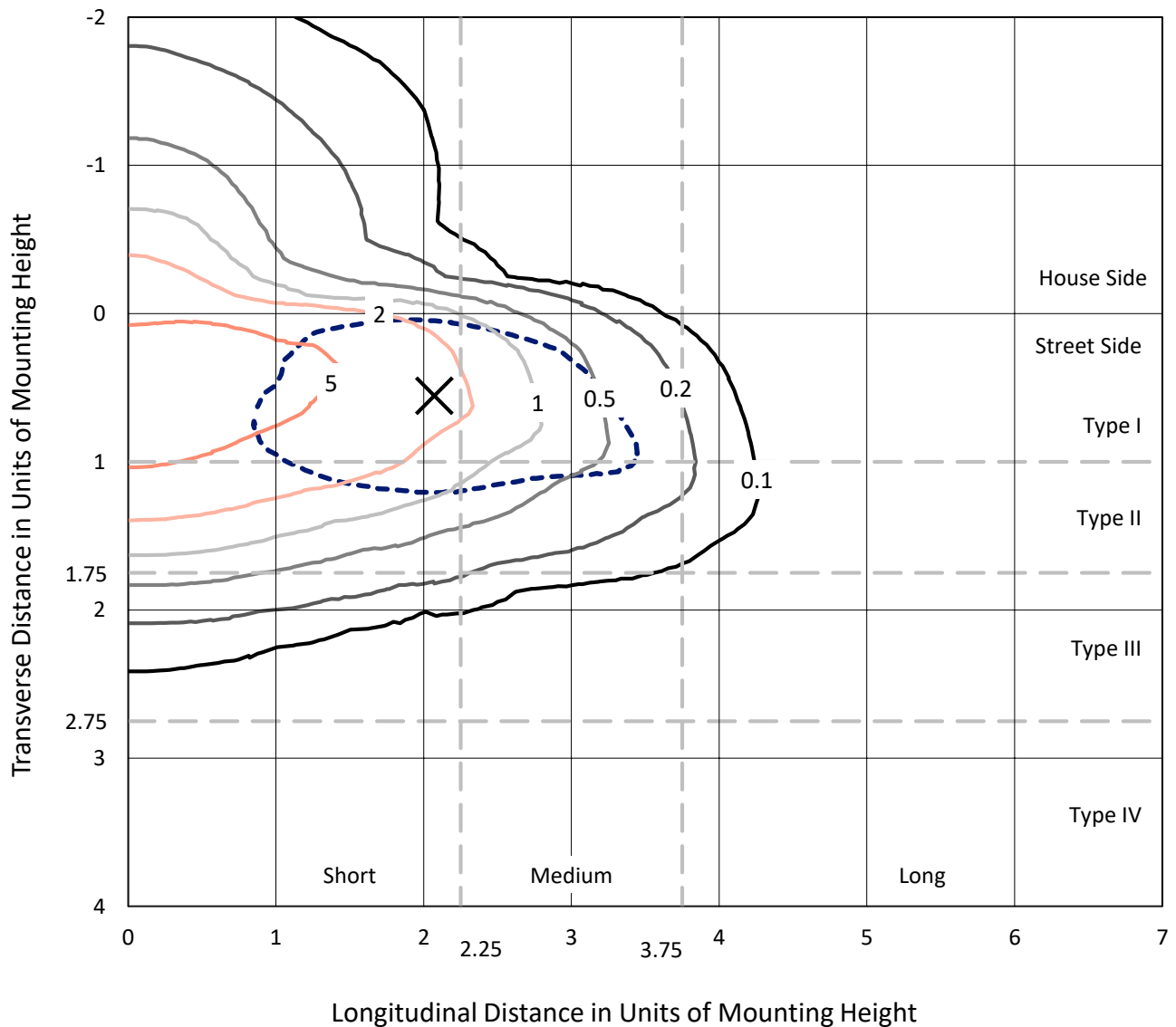
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

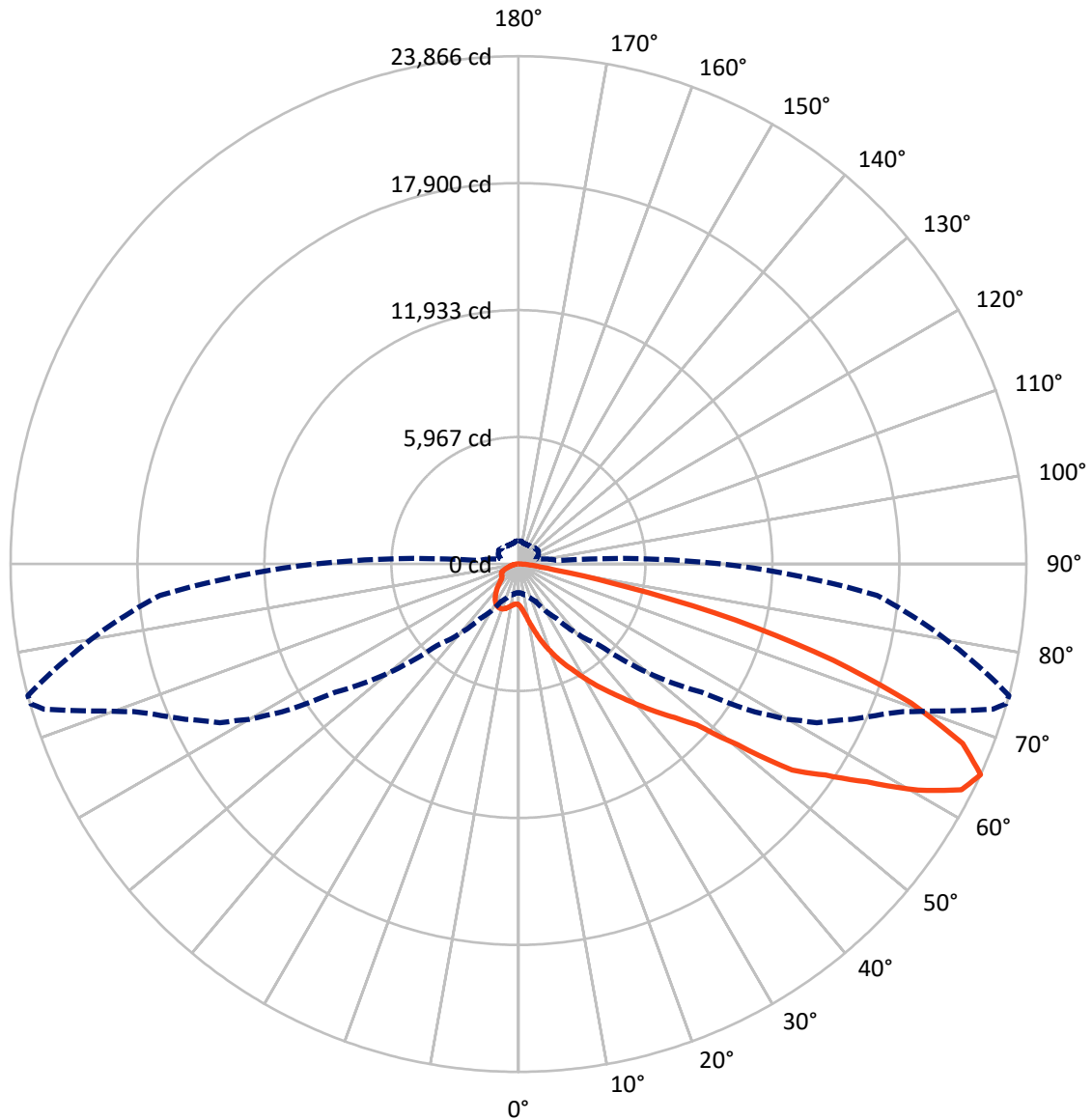
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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 | 3635.8 | 0.0 | 3635.8 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 19946.2 | 0.0 | 19946.2 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 23582.0 | 0.0 | 23582.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.9 | 1.0 |
| 10°-20° | 925.6 | 3.9 |
| 20°-30° | 1898.9 | 8.1 |
| 30°-40° | 3194.9 | 13.5 |
| 40°-50° | 4414.4 | 18.7 |
| 50°-60° | 5510.5 | 23.4 |
| 60°-70° | 4958.9 | 21.0 |
| 70°-80° | 2078.7 | 8.8 |
| 80°-90° | 363.2 | 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° | 23582.0 | 100.0 |
| 0°-180° | 23582.0 | 100.0 |



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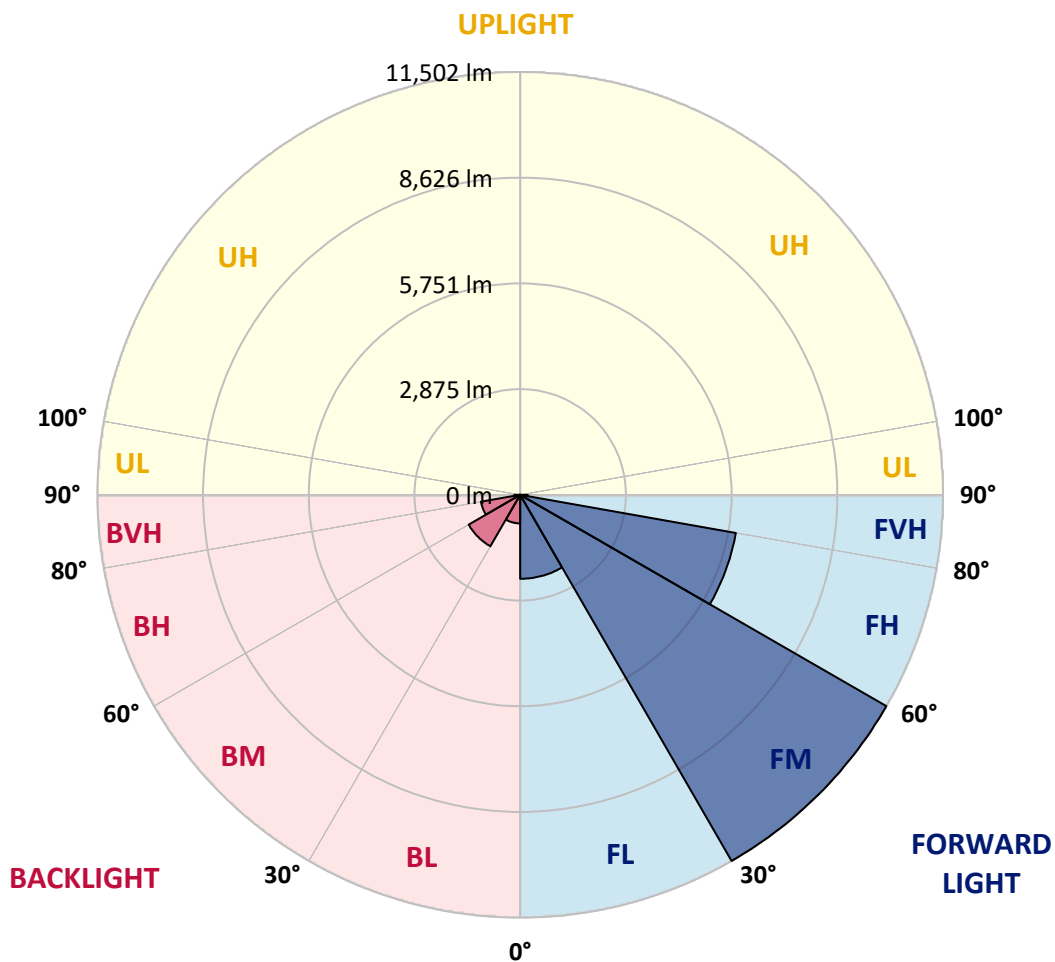
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-8030-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2283.8 | 9.7 | | | |
| FM (30°-60°) | 11501.5 | 48.8 | | | |
| FH (60°-80°) | 5956.7 | 25.3 | | | G3/7500 |
| FVH (80°-90°) | 204.1 | 0.9 | | | G2/225 |
| BL (0°-30°) | 777.5 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1618.3 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1080.9 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 159.0 | 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-8030-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 |
| 2.5° | 2433.3 | 2406.5 | 2413.2 | 2368.5 | 2313.9 | 2242.4 | 2163.2 | 2162.0 | 2163.2 | 2155.4 | 2126.3 |
| 5° | 3374.2 | 3341.9 | 3329.6 | 3229.1 | 3081.8 | 2871.9 | 2644.2 | 2619.7 | 2609.6 | 2584.0 | 2524.8 |
| 7.5° | 4060.7 | 4042.8 | 4023.8 | 3947.9 | 3814.0 | 3579.6 | 3273.8 | 3221.3 | 3171.1 | 3158.8 | 3091.8 |
| 10° | 4503.8 | 4499.3 | 4459.2 | 4439.1 | 4355.4 | 4152.2 | 3854.2 | 3804.0 | 3749.3 | 3730.3 | 3660.0 |
| 12.5° | 4854.3 | 4853.2 | 4834.2 | 4839.8 | 4767.2 | 4619.9 | 4363.2 | 4317.4 | 4277.2 | 4219.2 | 4168.9 |
| 15° | 5096.5 | 5097.6 | 5125.5 | 5156.8 | 5145.6 | 5046.3 | 4805.2 | 4785.1 | 4750.5 | 4710.3 | 4651.1 |
| 17.5° | 5295.2 | 5300.8 | 5329.8 | 5386.7 | 5448.1 | 5440.3 | 5249.4 | 5232.7 | 5202.5 | 5147.8 | 5116.6 |
| 20° | 5743.9 | 5765.1 | 5709.3 | 5709.3 | 5716.0 | 5746.1 | 5654.6 | 5641.2 | 5598.8 | 5569.8 | 5545.2 |
| 22.5° | 6501.8 | 6526.3 | 6400.2 | 6271.8 | 6145.7 | 6054.2 | 5962.7 | 5979.4 | 5950.4 | 5930.3 | 5915.8 |
| 25° | 7486.2 | 7505.2 | 7301.0 | 7084.4 | 6827.7 | 6492.8 | 6266.3 | 6256.2 | 6240.6 | 6228.3 | 6221.6 |
| 27.5° | 8412.7 | 8420.5 | 8227.4 | 7910.4 | 7612.4 | 7131.3 | 6574.3 | 6562.0 | 6543.1 | 6519.6 | 6499.5 |
| 30° | 9205.2 | 9202.9 | 9004.3 | 8701.8 | 8382.5 | 7850.1 | 7042.0 | 7004.1 | 6948.2 | 6884.6 | 6835.5 |
| 32.5° | 9891.6 | 9888.3 | 9670.6 | 9357.0 | 9022.1 | 8562.3 | 7682.7 | 7604.6 | 7517.5 | 7393.6 | 7318.8 |
| 35° | 10431.9 | 10429.6 | 10224.2 | 9897.2 | 9513.2 | 9233.1 | 8417.1 | 8321.2 | 8210.7 | 8044.3 | 7929.4 |
| 37.5° | 10636.1 | 10636.1 | 10521.2 | 10297.9 | 9958.6 | 9766.6 | 9233.1 | 9117.0 | 8998.7 | 8810.0 | 8680.6 |
| 40° | 10516.7 | 10518.9 | 10543.5 | 10502.2 | 10337.0 | 10189.6 | 9994.3 | 9925.1 | 9823.5 | 9653.9 | 9518.8 |
| 42.5° | 10116.0 | 10128.3 | 10291.2 | 10491.0 | 10573.6 | 10550.2 | 10669.6 | 10638.4 | 10566.9 | 10436.3 | 10329.2 |
| 45° | 9608.1 | 9646.1 | 9824.7 | 10201.9 | 10639.5 | 10861.6 | 11235.5 | 11238.9 | 11225.5 | 11155.1 | 11072.5 |
| 47.5° | 8910.5 | 8964.1 | 9199.6 | 9709.7 | 10485.4 | 11164.1 | 11810.3 | 11840.5 | 11868.4 | 11822.6 | 11784.7 |
| 50° | 7984.1 | 8047.7 | 8400.4 | 9076.8 | 10171.8 | 11477.7 | 12896.4 | 13032.6 | 13159.8 | 13144.2 | 13169.9 |
| 52.5° | 6991.8 | 7066.6 | 7498.5 | 8252.0 | 9632.7 | 11550.3 | 13590.7 | 13812.8 | 14034.9 | 14216.8 | 14409.9 |
| 55° | 6096.6 | 6056.4 | 6488.4 | 7282.0 | 8746.4 | 11223.2 | 14214.6 | 14482.5 | 14730.3 | 14953.5 | 15183.5 |
| 57.5° | 4883.3 | 4949.2 | 5382.2 | 6166.9 | 7573.3 | 10300.1 | 14644.3 | 15036.1 | 15392.2 | 15761.6 | 16087.6 |
| 60° | 3569.6 | 3635.4 | 4105.3 | 4902.3 | 6299.7 | 8900.5 | 14316.2 | 14910.0 | 15480.4 | 16046.3 | 16488.3 |
| 62.5° | 2155.4 | 2204.5 | 2618.6 | 3377.6 | 4857.6 | 7240.7 | 12854.0 | 13633.1 | 14472.4 | 15148.9 | 15826.4 |
| 65° | 1341.7 | 1369.6 | 1522.5 | 1939.9 | 3119.7 | 5405.7 | 10502.2 | 11351.6 | 12255.7 | 13114.1 | 13818.4 |
| 67.5° | 1098.3 | 1108.4 | 1136.3 | 1225.6 | 1713.3 | 3524.9 | 7816.6 | 8568.9 | 9384.9 | 10215.3 | 10998.9 |
| 70° | 987.8 | 981.1 | 981.1 | 986.7 | 1098.3 | 1895.3 | 5117.7 | 5607.7 | 6287.5 | 7009.6 | 7726.2 |
| 72.5° | 891.8 | 885.1 | 872.9 | 856.1 | 896.3 | 1156.4 | 2645.4 | 3014.8 | 3504.8 | 4146.6 | 4833.1 |
| 75° | 801.4 | 792.5 | 778.0 | 756.8 | 784.7 | 872.9 | 1270.2 | 1425.4 | 1664.2 | 2005.8 | 2388.6 |
| 77.5° | 707.7 | 696.5 | 683.1 | 667.5 | 703.2 | 678.6 | 744.5 | 800.3 | 891.8 | 1001.2 | 1145.2 |
| 80° | 601.6 | 591.6 | 587.1 | 579.3 | 621.7 | 516.8 | 525.7 | 560.3 | 613.9 | 673.1 | 740.0 |
| 82.5° | 471.0 | 471.0 | 488.9 | 492.2 | 539.1 | 371.7 | 392.9 | 423.0 | 450.9 | 482.2 | 513.4 |
| 85° | 310.3 | 312.5 | 372.8 | 396.2 | 425.3 | 250.0 | 294.7 | 304.7 | 327.0 | 344.9 | 358.3 |
| 87.5° | 97.1 | 104.9 | 227.7 | 252.3 | 244.4 | 141.8 | 180.8 | 185.3 | 200.9 | 213.2 | 224.4 |
| 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-8030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 |
| 2.5° | 2126.3 | 2112.9 | 2100.7 | 2099.5 | 2090.6 | 2078.3 | 2082.8 | 2063.8 | 2064.9 | 2054.9 | 2043.7 |
| 5° | 2500.3 | 2491.3 | 2446.7 | 2434.4 | 2400.9 | 2379.7 | 2376.4 | 2331.7 | 2326.1 | 2300.5 | 2272.6 |
| 7.5° | 3038.3 | 3009.2 | 2946.7 | 2916.6 | 2859.7 | 2817.2 | 2797.2 | 2738.0 | 2709.0 | 2642.0 | 2611.9 |
| 10° | 3601.9 | 3565.1 | 3488.1 | 3445.7 | 3391.0 | 3322.9 | 3286.0 | 3200.1 | 3166.6 | 3105.2 | 3031.6 |
| 12.5° | 4124.3 | 4087.5 | 4008.2 | 3975.8 | 3903.3 | 3830.7 | 3790.6 | 3693.5 | 3649.9 | 3551.7 | 3493.7 |
| 15° | 4607.6 | 4570.8 | 4501.6 | 4468.1 | 4395.5 | 4336.4 | 4282.8 | 4186.8 | 4135.5 | 4043.9 | 3968.0 |
| 17.5° | 5076.4 | 5037.3 | 4977.1 | 4946.9 | 4876.6 | 4816.3 | 4758.3 | 4667.9 | 4615.4 | 4523.9 | 4455.8 |
| 20° | 5511.7 | 5482.7 | 5439.2 | 5399.0 | 5328.7 | 5274.0 | 5204.8 | 5126.6 | 5050.7 | 4983.8 | 4919.0 |
| 22.5° | 5891.2 | 5880.1 | 5833.2 | 5815.3 | 5755.0 | 5708.2 | 5647.9 | 5570.9 | 5516.2 | 5431.4 | 5371.1 |
| 25° | 6218.3 | 6214.9 | 6192.6 | 6187.0 | 6144.6 | 6099.9 | 6086.6 | 6022.9 | 5972.7 | 5897.9 | 5835.4 |
| 27.5° | 6499.5 | 6502.9 | 6497.3 | 6512.9 | 6501.8 | 6481.7 | 6482.8 | 6461.6 | 6432.6 | 6370.1 | 6315.4 |
| 30° | 6812.1 | 6794.2 | 6804.3 | 6826.6 | 6833.3 | 6835.5 | 6872.3 | 6884.6 | 6882.4 | 6841.1 | 6814.3 |
| 32.5° | 7254.1 | 7211.7 | 7172.6 | 7169.3 | 7191.6 | 7200.5 | 7263.0 | 7295.4 | 7323.3 | 7333.3 | 7337.8 |
| 35° | 7817.8 | 7732.9 | 7651.4 | 7607.9 | 7570.0 | 7580.0 | 7624.7 | 7677.1 | 7738.5 | 7780.9 | 7831.1 |
| 37.5° | 8527.6 | 8423.8 | 8279.9 | 8177.2 | 8151.5 | 8095.7 | 8124.7 | 8166.0 | 8226.3 | 8292.1 | 8379.2 |
| 40° | 9388.2 | 9230.8 | 9069.0 | 8932.8 | 8859.2 | 8756.5 | 8755.4 | 8747.5 | 8784.4 | 8845.8 | 8968.5 |
| 42.5° | 10216.4 | 10076.9 | 9905.0 | 9762.1 | 9666.2 | 9528.9 | 9501.0 | 9428.4 | 9445.2 | 9498.7 | 9618.2 |
| 45° | 10992.2 | 10877.2 | 10772.3 | 10607.1 | 10525.6 | 10377.2 | 10330.3 | 10244.3 | 10196.3 | 10220.9 | 10340.3 |
| 47.5° | 11743.4 | 11669.7 | 11560.3 | 11453.2 | 11390.7 | 11257.8 | 11197.6 | 11136.2 | 11074.8 | 11072.5 | 11197.6 |
| 50° | 13207.8 | 13168.7 | 13039.3 | 12927.6 | 12957.8 | 12794.8 | 12804.9 | 12639.7 | 12714.5 | 12723.4 | 12985.7 |
| 52.5° | 14584.1 | 14720.2 | 14816.2 | 14933.4 | 15009.3 | 15023.8 | 15074.1 | 15148.9 | 15239.3 | 15417.9 | 15661.2 |
| 55° | 15372.1 | 15542.9 | 15642.2 | 15731.5 | 15878.8 | 15910.1 | 15993.8 | 16093.1 | 16172.4 | 16373.3 | 16579.8 |
| 57.5° | 16308.6 | 16625.6 | 16779.6 | 16921.4 | 17120.0 | 17195.9 | 17335.5 | 17443.7 | 17546.4 | 17784.2 | 18034.2 |
| 60° | 16885.6 | 17271.8 | 17585.5 | 17809.8 | 18058.7 | 18237.3 | 18448.3 | 18618.0 | 18859.1 | 19143.7 | 19516.5 |
| 62.5° | 16426.9 | 16993.9 | 17410.2 | 17795.3 | 18133.5 | 18475.1 | 18777.6 | 19094.6 | 19460.7 | 19891.5 | 20469.7 |
| 65° | 14599.7 | 15176.8 | 15890.0 | 16289.6 | 16737.2 | 17264.0 | 17723.9 | 18237.3 | 18736.3 | 19363.6 | 20218.6 |
| 67.5° | 11753.4 | 12424.2 | 13225.7 | 13628.6 | 14143.2 | 14731.4 | 15247.1 | 15874.4 | 16457.0 | 17217.1 | 18274.2 |
| 70° | 8471.8 | 9339.1 | 10013.3 | 10434.1 | 11034.6 | 11640.7 | 12138.5 | 12868.5 | 13350.7 | 14129.8 | 15222.5 |
| 72.5° | 5364.4 | 6048.6 | 6874.6 | 7404.8 | 7938.3 | 8552.2 | 9061.2 | 9690.7 | 10140.5 | 10850.4 | 11840.5 |
| 75° | 2884.2 | 3388.7 | 4114.3 | 4617.7 | 5189.1 | 5713.7 | 6309.8 | 6731.7 | 7064.3 | 7625.8 | 8429.4 |
| 77.5° | 1351.7 | 1658.6 | 2025.9 | 2413.2 | 2800.5 | 3204.6 | 3597.5 | 3939.0 | 4081.9 | 4403.3 | 4877.7 |
| 80° | 820.4 | 919.7 | 1026.9 | 1146.3 | 1308.2 | 1438.8 | 1611.8 | 1736.8 | 1745.7 | 1847.3 | 1992.4 |
| 82.5° | 548.0 | 584.9 | 617.2 | 647.4 | 688.7 | 721.1 | 757.9 | 801.4 | 819.3 | 842.7 | 889.6 |
| 85° | 373.9 | 391.8 | 398.5 | 417.5 | 413.0 | 424.2 | 438.7 | 453.2 | 461.0 | 459.9 | 481.1 |
| 87.5° | 229.9 | 238.9 | 243.3 | 247.8 | 244.4 | 240.0 | 246.7 | 254.5 | 256.7 | 250.0 | 252.3 |
| 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-8030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 | 1916.5 |
| 2.5° | 2046.0 | 2035.9 | 2025.9 | 2019.2 | 2016.9 | 1957.8 | 1932.1 | 1915.4 | 1879.7 | 1850.6 | 1827.2 |
| 5° | 2256.9 | 2235.7 | 2219.0 | 2198.9 | 2187.7 | 2038.2 | 1983.5 | 1945.5 | 1883.0 | 1846.2 | 1812.7 |
| 7.5° | 2596.2 | 2537.1 | 2502.5 | 2463.4 | 2429.9 | 2159.8 | 2069.4 | 2010.2 | 1923.2 | 1874.1 | 1836.1 |
| 10° | 2981.3 | 2919.9 | 2865.2 | 2805.0 | 2752.5 | 2321.7 | 2190.0 | 2098.4 | 1983.5 | 1919.8 | 1869.6 |
| 12.5° | 3411.1 | 3350.8 | 3281.6 | 3204.6 | 3137.6 | 2527.0 | 2344.0 | 2213.4 | 2056.0 | 1971.2 | 1900.9 |
| 15° | 3918.9 | 3812.9 | 3729.2 | 3639.9 | 3561.7 | 2772.6 | 2523.7 | 2342.9 | 2133.0 | 2018.1 | 1924.3 |
| 17.5° | 4391.1 | 4279.5 | 4165.6 | 4087.5 | 3997.1 | 3048.3 | 2704.5 | 2474.6 | 2196.7 | 2048.2 | 1928.8 |
| 20° | 4852.1 | 4730.4 | 4632.2 | 4527.2 | 4432.4 | 3334.0 | 2897.6 | 2590.7 | 2237.9 | 2049.3 | 1900.9 |
| 22.5° | 5258.3 | 5182.4 | 5073.1 | 4959.2 | 4863.2 | 3619.8 | 3078.4 | 2688.9 | 2253.6 | 2023.6 | 1851.7 |
| 25° | 5720.4 | 5640.1 | 5506.1 | 5410.1 | 5303.0 | 3911.1 | 3255.9 | 2764.8 | 2244.6 | 1975.6 | 1775.8 |
| 27.5° | 6213.8 | 6124.5 | 5987.2 | 5886.8 | 5757.3 | 4213.6 | 3418.9 | 2819.5 | 2211.2 | 1897.5 | 1674.3 |
| 30° | 6728.4 | 6646.9 | 6511.8 | 6410.2 | 6279.7 | 4533.9 | 3600.8 | 2856.3 | 2144.2 | 1789.2 | 1556.0 |
| 32.5° | 7280.9 | 7212.8 | 7078.8 | 6972.8 | 6833.3 | 4881.1 | 3770.5 | 2867.5 | 2042.6 | 1660.9 | 1430.9 |
| 35° | 7805.5 | 7758.6 | 7645.9 | 7546.5 | 7401.4 | 5209.2 | 3950.2 | 2861.9 | 1922.1 | 1520.2 | 1317.1 |
| 37.5° | 8395.9 | 8368.0 | 8312.2 | 8186.1 | 8008.6 | 5654.6 | 4165.6 | 2838.5 | 1774.7 | 1380.7 | 1230.0 |
| 40° | 9025.5 | 9027.7 | 8967.4 | 8881.5 | 8716.3 | 6194.8 | 4422.3 | 2792.7 | 1614.0 | 1257.9 | 1150.8 |
| 42.5° | 9691.8 | 9726.4 | 9697.4 | 9636.0 | 9477.5 | 6739.5 | 4729.3 | 2736.9 | 1457.7 | 1138.5 | 1072.7 |
| 45° | 10455.3 | 10497.7 | 10542.4 | 10452.0 | 10297.9 | 7458.3 | 5133.3 | 2664.3 | 1289.2 | 1039.2 | 1019.1 |
| 47.5° | 11336.0 | 11402.9 | 11443.1 | 11444.2 | 11290.2 | 8349.1 | 5789.6 | 2620.8 | 1139.6 | 972.2 | 993.4 |
| 50° | 13194.4 | 13215.6 | 13310.5 | 13475.7 | 13357.4 | 10410.7 | 6936.0 | 2594.0 | 1038.1 | 930.9 | 974.4 |
| 52.5° | 15872.1 | 16105.4 | 16269.5 | 16258.3 | 16097.6 | 11719.9 | 7567.7 | 2455.6 | 977.8 | 915.3 | 965.5 |
| 55° | 16962.7 | 17254.0 | 17557.6 | 17637.9 | 17512.9 | 12837.2 | 8164.9 | 2317.2 | 948.8 | 926.4 | 968.8 |
| 57.5° | 18415.9 | 18907.0 | 19323.4 | 19498.6 | 19317.8 | 14267.1 | 8950.7 | 2244.6 | 939.8 | 956.6 | 990.1 |
| 60° | 20113.6 | 20720.8 | 21267.8 | 21582.5 | 21582.5 | 15910.1 | 9765.5 | 2214.5 | 927.5 | 1001.2 | 1025.8 |
| 62.5° | 21204.2 | 22096.0 | 22922.0 | 23382.9 | 23369.6 | 17054.2 | 10127.1 | 2111.8 | 899.6 | 1032.5 | 1074.9 |
| 65° | 21208.6 | 22269.0 | 23321.6 | 23839.5 | 23866.3 | 16913.5 | 9530.0 | 1865.1 | 848.3 | 1036.9 | 1124.0 |
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| 70° | 16419.1 | 17523.0 | 18775.3 | 19344.6 | 19582.3 | 13272.5 | 6644.6 | 1182.0 | 657.4 | 894.1 | 1105.0 |
| 72.5° | 12935.5 | 14018.2 | 14889.9 | 15306.2 | 15491.5 | 10145.0 | 4838.7 | 892.9 | 539.1 | 753.4 | 1005.7 |
| 75° | 9158.3 | 9970.9 | 10434.1 | 10526.7 | 10555.8 | 6115.6 | 2940.0 | 664.1 | 444.2 | 586.0 | 849.4 |
| 77.5° | 5169.0 | 5517.3 | 5479.3 | 5520.6 | 5176.9 | 2360.7 | 1280.3 | 475.5 | 366.1 | 445.4 | 658.5 |
| 80° | 2018.1 | 2080.6 | 1954.4 | 1915.4 | 1756.9 | 878.4 | 564.8 | 331.5 | 292.4 | 337.1 | 461.0 |
| 82.5° | 889.6 | 918.6 | 891.8 | 898.5 | 859.5 | 453.2 | 338.2 | 240.0 | 223.2 | 246.7 | 305.8 |
| 85° | 490.0 | 498.9 | 496.7 | 511.2 | 490.0 | 180.8 | 160.7 | 147.3 | 156.3 | 167.4 | 196.4 |
| 87.5° | 238.9 | 241.1 | 233.3 | 245.6 | 237.7 | 91.5 | 79.2 | 83.7 | 91.5 | 93.8 | 93.8 |
| 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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