

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: P192205

Luminaire Tested: **GAN-AF-07-LED-U-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192205
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 35439 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

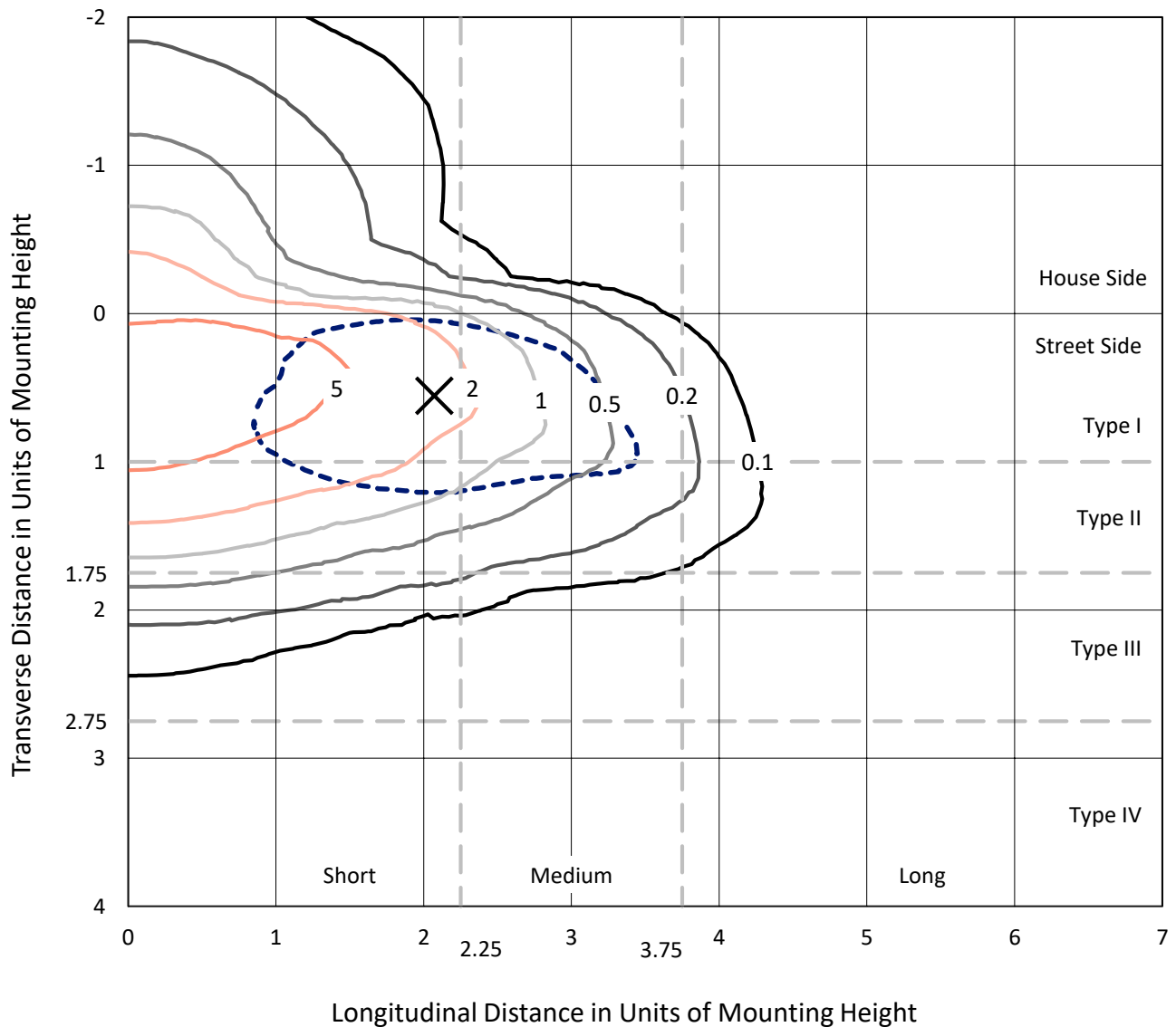
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

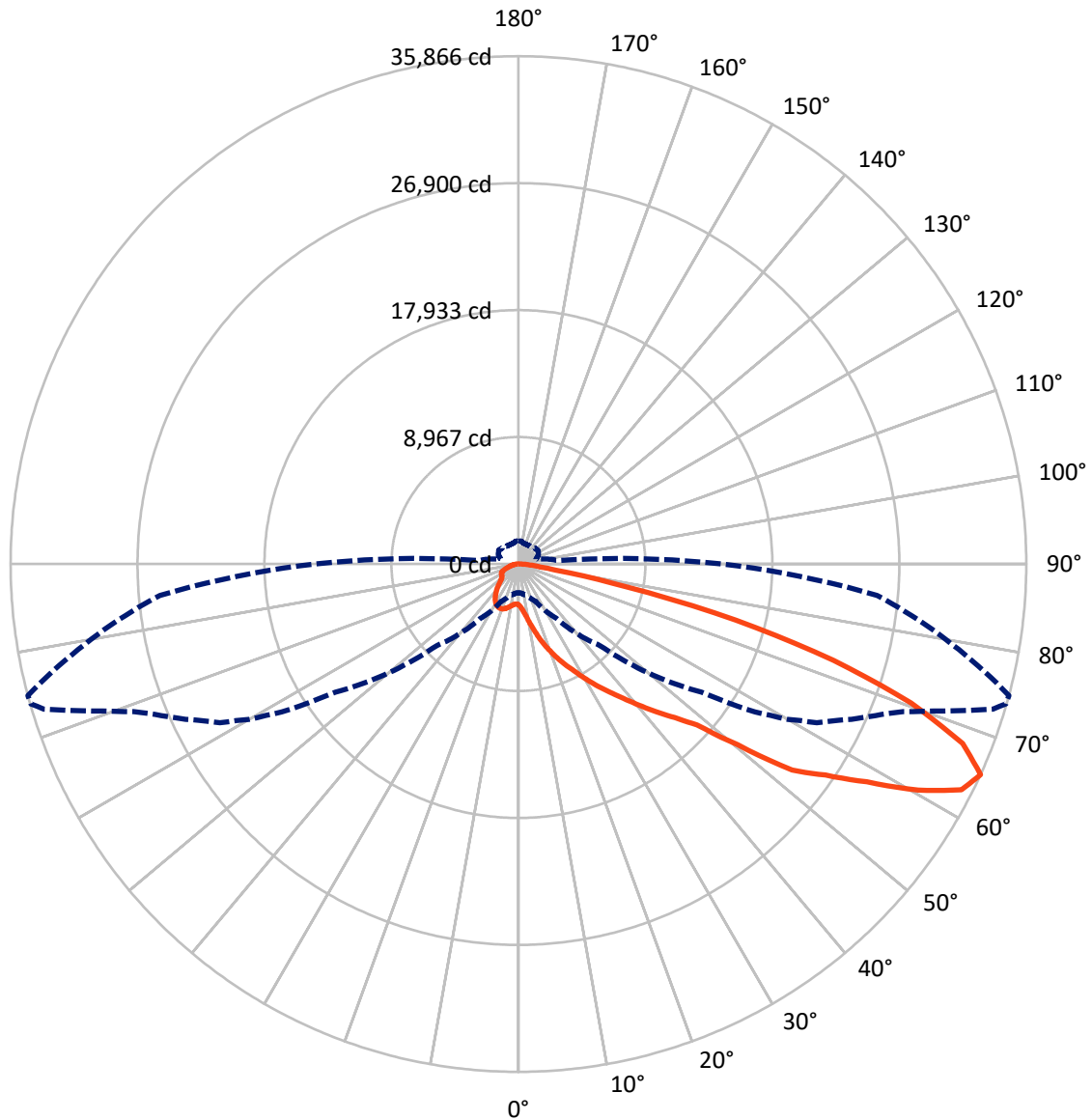
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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 | 5463.9 | 0.0 | 5463.9 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 29975.1 | 0.0 | 29975.1 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 35439.0 | 0.0 | 35439.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 356.0 | 1.0 |
| 10°-20° | 1390.9 | 3.9 |
| 20°-30° | 2853.7 | 8.1 |
| 30°-40° | 4801.3 | 13.5 |
| 40°-50° | 6634.0 | 18.7 |
| 50°-60° | 8281.2 | 23.4 |
| 60°-70° | 7452.2 | 21.0 |
| 70°-80° | 3123.9 | 8.8 |
| 80°-90° | 545.8 | 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° | 35439.0 | 100.0 |
| 0°-180° | 35439.0 | 100.0 |

Coefficient of Utilization



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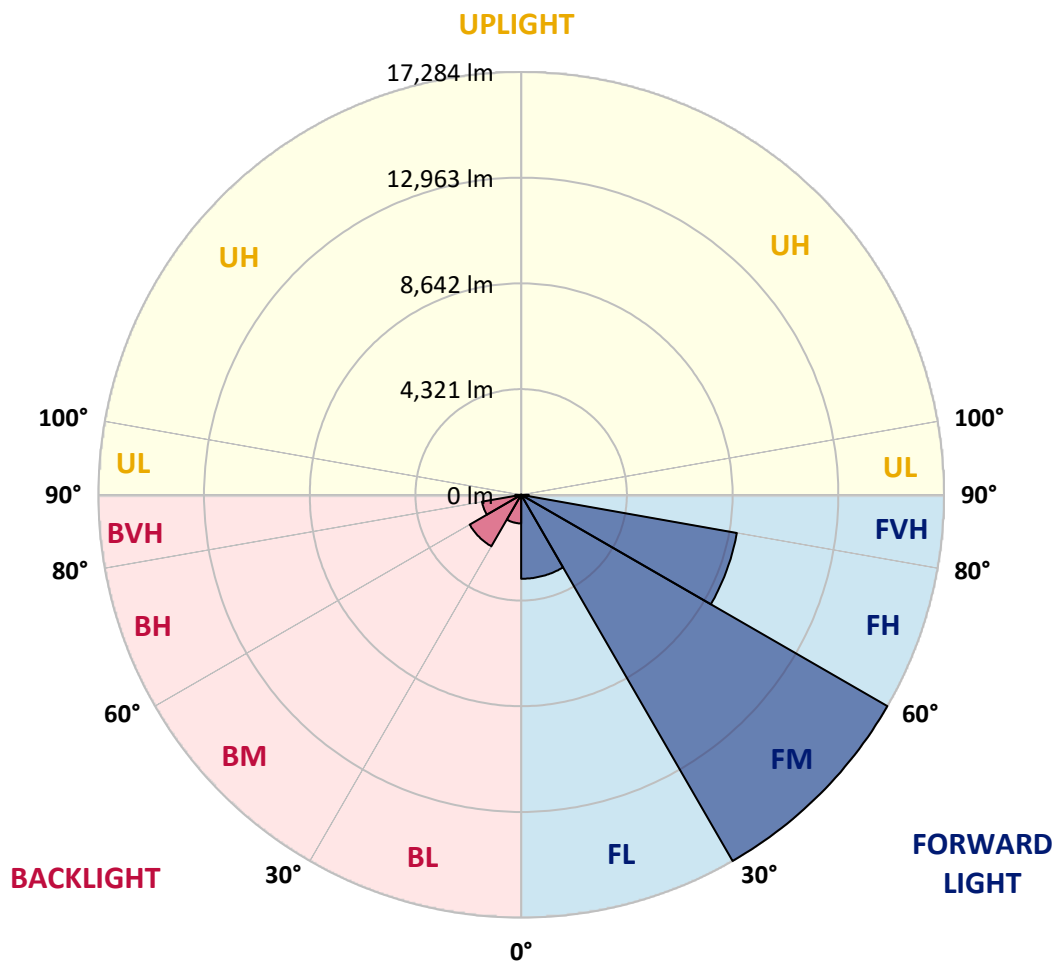
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3432.2 | 9.7 | | | |
| FM (30°-60°) | 17284.5 | 48.8 | | | |
| FH (60°-80°) | 8951.8 | 25.3 | | | G4/12000 |
| FVH (80°-90°) | 306.8 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1168.5 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 2432.0 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1624.3 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 239.0 | 0.7 | | | G3/500 |
| 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° | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 |
| 2.5° | 3656.7 | 3616.5 | 3626.5 | 3559.4 | 3477.3 | 3369.9 | 3250.8 | 3249.1 | 3250.8 | 3239.1 | 3195.4 |
| 5° | 5070.8 | 5022.1 | 5003.7 | 4852.7 | 4631.3 | 4316.0 | 3973.8 | 3936.9 | 3921.8 | 3883.2 | 3794.3 |
| 7.5° | 6102.4 | 6075.5 | 6047.0 | 5933.0 | 5731.7 | 5379.4 | 4919.8 | 4841.0 | 4765.5 | 4747.0 | 4646.4 |
| 10° | 6768.3 | 6761.6 | 6701.2 | 6671.0 | 6545.2 | 6239.9 | 5792.1 | 5716.6 | 5634.4 | 5605.9 | 5500.2 |
| 12.5° | 7295.0 | 7293.3 | 7264.8 | 7273.2 | 7164.2 | 6942.8 | 6557.0 | 6488.2 | 6427.8 | 6340.6 | 6265.1 |
| 15° | 7659.0 | 7660.7 | 7702.6 | 7749.6 | 7732.8 | 7583.5 | 7221.2 | 7191.0 | 7139.0 | 7078.6 | 6989.7 |
| 17.5° | 7957.6 | 7966.0 | 8009.6 | 8095.1 | 8187.4 | 8175.6 | 7888.8 | 7863.7 | 7818.4 | 7736.2 | 7689.2 |
| 20° | 8631.9 | 8663.8 | 8579.9 | 8579.9 | 8590.0 | 8635.3 | 8497.7 | 8477.6 | 8413.8 | 8370.2 | 8333.3 |
| 22.5° | 9770.9 | 9807.8 | 9618.2 | 9425.3 | 9235.8 | 9098.2 | 8960.7 | 8985.8 | 8942.2 | 8912.0 | 8890.2 |
| 25° | 11250.3 | 11278.8 | 10971.9 | 10646.5 | 10260.7 | 9757.4 | 9416.9 | 9401.8 | 9378.3 | 9359.9 | 9349.8 |
| 27.5° | 12642.6 | 12654.3 | 12364.1 | 11887.7 | 11439.9 | 10716.9 | 9879.9 | 9861.4 | 9832.9 | 9797.7 | 9767.5 |
| 30° | 13833.5 | 13830.2 | 13531.6 | 13077.0 | 12597.3 | 11797.2 | 10582.7 | 10525.7 | 10441.8 | 10346.2 | 10272.4 |
| 32.5° | 14865.1 | 14860.1 | 14533.0 | 14061.6 | 13558.4 | 12867.3 | 11545.5 | 11428.1 | 11297.3 | 11111.1 | 10998.7 |
| 35° | 15677.0 | 15673.6 | 15365.0 | 14873.5 | 14296.5 | 13875.5 | 12649.3 | 12505.0 | 12339.0 | 12089.0 | 11916.3 |
| 37.5° | 15983.9 | 15983.9 | 15811.2 | 15475.7 | 14965.8 | 14677.3 | 13875.5 | 13701.0 | 13523.2 | 13239.7 | 13045.1 |
| 40° | 15804.5 | 15807.8 | 15844.7 | 15782.7 | 15534.4 | 15313.0 | 15019.4 | 14915.4 | 14762.8 | 14507.8 | 14304.9 |
| 42.5° | 15202.3 | 15220.7 | 15465.6 | 15765.9 | 15890.0 | 15854.8 | 16034.3 | 15987.3 | 15880.0 | 15683.7 | 15522.7 |
| 45° | 14439.1 | 14496.1 | 14764.5 | 15331.4 | 15989.0 | 16322.8 | 16884.7 | 16889.7 | 16869.6 | 16763.9 | 16639.8 |
| 47.5° | 13390.7 | 13471.2 | 13825.1 | 14591.7 | 15757.5 | 16777.4 | 17748.6 | 17793.9 | 17835.8 | 17767.0 | 17710.0 |
| 50° | 11998.4 | 12094.1 | 12624.1 | 13640.6 | 15286.2 | 17248.7 | 19380.7 | 19585.3 | 19776.6 | 19753.1 | 19791.6 |
| 52.5° | 10507.2 | 10619.6 | 11268.8 | 12401.0 | 14476.0 | 17357.7 | 20424.0 | 20757.8 | 21091.6 | 21365.1 | 21655.2 |
| 55° | 9162.0 | 9101.6 | 9750.7 | 10943.4 | 13144.1 | 16866.3 | 21361.7 | 21764.3 | 22136.7 | 22472.1 | 22817.7 |
| 57.5° | 7338.6 | 7437.6 | 8088.4 | 9267.6 | 11381.2 | 15479.1 | 22007.5 | 22596.3 | 23131.4 | 23686.6 | 24176.4 |
| 60° | 5364.3 | 5463.3 | 6169.5 | 7367.1 | 9467.2 | 13375.6 | 21514.3 | 22406.7 | 23263.9 | 24114.3 | 24778.6 |
| 62.5° | 3239.1 | 3312.9 | 3935.2 | 5075.8 | 7300.0 | 10881.3 | 19316.9 | 20487.8 | 21749.2 | 22765.7 | 23783.9 |
| 65° | 2016.2 | 2058.2 | 2288.0 | 2915.3 | 4688.3 | 8123.7 | 15782.7 | 17059.2 | 18417.9 | 19707.8 | 20766.2 |
| 67.5° | 1650.6 | 1665.7 | 1707.6 | 1841.8 | 2574.8 | 5297.2 | 11746.8 | 12877.4 | 14103.6 | 15351.6 | 16529.1 |
| 70° | 1484.5 | 1474.4 | 1474.4 | 1482.8 | 1650.6 | 2848.2 | 7690.9 | 8427.3 | 9448.8 | 10534.1 | 11611.0 |
| 72.5° | 1340.2 | 1330.2 | 1311.7 | 1286.6 | 1347.0 | 1737.8 | 3975.4 | 4530.7 | 5267.0 | 6231.5 | 7263.1 |
| 75° | 1204.4 | 1191.0 | 1169.1 | 1137.3 | 1179.2 | 1311.7 | 1908.9 | 2142.0 | 2501.0 | 3014.3 | 3589.6 |
| 77.5° | 1063.5 | 1046.7 | 1026.6 | 1003.1 | 1056.8 | 1019.9 | 1118.8 | 1202.7 | 1340.2 | 1504.6 | 1721.0 |
| 80° | 904.1 | 889.0 | 882.3 | 870.6 | 934.3 | 776.6 | 790.1 | 842.1 | 922.6 | 1011.5 | 1112.1 |
| 82.5° | 707.9 | 707.9 | 734.7 | 739.7 | 810.2 | 558.6 | 590.4 | 635.7 | 677.7 | 724.6 | 771.6 |
| 85° | 466.3 | 469.7 | 560.3 | 595.5 | 639.1 | 375.7 | 442.8 | 457.9 | 491.5 | 518.3 | 538.4 |
| 87.5° | 145.9 | 157.7 | 342.2 | 379.1 | 367.4 | 213.0 | 271.7 | 278.4 | 301.9 | 320.4 | 337.2 |
| 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-7050-800

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 |
| 2.5° | 3195.4 | 3175.3 | 3156.9 | 3155.2 | 3141.8 | 3123.3 | 3130.0 | 3101.5 | 3103.2 | 3088.1 | 3071.3 |
| 5° | 3757.4 | 3744.0 | 3676.9 | 3658.4 | 3608.1 | 3576.2 | 3571.2 | 3504.1 | 3495.7 | 3457.1 | 3415.2 |
| 7.5° | 4565.9 | 4522.3 | 4428.3 | 4383.0 | 4297.5 | 4233.8 | 4203.6 | 4114.7 | 4071.1 | 3970.4 | 3925.1 |
| 10° | 5413.0 | 5357.6 | 5241.9 | 5178.1 | 5095.9 | 4993.6 | 4938.3 | 4809.1 | 4758.8 | 4666.5 | 4555.8 |
| 12.5° | 6198.0 | 6142.6 | 6023.5 | 5974.9 | 5865.9 | 5756.8 | 5696.5 | 5550.5 | 5485.1 | 5337.5 | 5250.3 |
| 15° | 6924.3 | 6869.0 | 6765.0 | 6714.6 | 6605.6 | 6516.7 | 6436.2 | 6291.9 | 6214.8 | 6077.2 | 5963.2 |
| 17.5° | 7628.8 | 7570.1 | 7479.5 | 7434.2 | 7328.6 | 7238.0 | 7150.8 | 7014.9 | 6936.1 | 6798.5 | 6696.2 |
| 20° | 8283.0 | 8239.4 | 8174.0 | 8113.6 | 8007.9 | 7925.7 | 7821.7 | 7704.3 | 7590.2 | 7489.6 | 7392.3 |
| 22.5° | 8853.3 | 8836.5 | 8766.1 | 8739.3 | 8648.7 | 8578.2 | 8487.6 | 8371.9 | 8289.7 | 8162.2 | 8071.7 |
| 25° | 9344.8 | 9339.8 | 9306.2 | 9297.8 | 9234.1 | 9167.0 | 9146.9 | 9051.3 | 8975.8 | 8863.4 | 8769.4 |
| 27.5° | 9767.5 | 9772.5 | 9764.1 | 9787.6 | 9770.9 | 9740.7 | 9742.3 | 9710.5 | 9666.9 | 9572.9 | 9490.7 |
| 30° | 10237.2 | 10210.3 | 10225.4 | 10259.0 | 10269.0 | 10272.4 | 10327.8 | 10346.2 | 10342.9 | 10280.8 | 10240.5 |
| 32.5° | 10901.4 | 10837.7 | 10779.0 | 10773.9 | 10807.5 | 10820.9 | 10914.8 | 10963.5 | 11005.4 | 11020.5 | 11027.2 |
| 35° | 11748.5 | 11621.0 | 11498.6 | 11433.2 | 11376.1 | 11391.2 | 11458.3 | 11537.2 | 11629.4 | 11693.2 | 11768.6 |
| 37.5° | 12815.3 | 12659.3 | 12443.0 | 12288.6 | 12250.1 | 12166.2 | 12209.8 | 12271.9 | 12362.4 | 12461.4 | 12592.2 |
| 40° | 14108.6 | 13872.1 | 13628.9 | 13424.2 | 13313.5 | 13159.2 | 13157.5 | 13145.8 | 13201.1 | 13293.4 | 13477.9 |
| 42.5° | 15353.2 | 15143.6 | 14885.3 | 14670.5 | 14526.3 | 14320.0 | 14278.0 | 14169.0 | 14194.2 | 14274.7 | 14454.2 |
| 45° | 16519.0 | 16346.3 | 16188.6 | 15940.3 | 15817.9 | 15594.8 | 15524.3 | 15395.2 | 15323.1 | 15360.0 | 15539.4 |
| 47.5° | 17647.9 | 17537.2 | 17372.8 | 17211.8 | 17117.9 | 16918.3 | 16827.7 | 16735.4 | 16643.2 | 16639.8 | 16827.7 |
| 50° | 19848.7 | 19790.0 | 19595.4 | 19427.7 | 19472.9 | 19228.0 | 19243.1 | 18994.9 | 19107.3 | 19120.7 | 19514.9 |
| 52.5° | 21916.9 | 22121.6 | 22265.8 | 22441.9 | 22556.0 | 22577.8 | 22653.3 | 22765.7 | 22901.5 | 23169.9 | 23535.6 |
| 55° | 23101.2 | 23357.8 | 23507.1 | 23641.3 | 23862.7 | 23909.7 | 24035.5 | 24184.8 | 24303.9 | 24605.8 | 24916.1 |
| 57.5° | 24508.5 | 24984.9 | 25216.4 | 25429.4 | 25728.0 | 25842.0 | 26051.7 | 26214.4 | 26368.7 | 26726.0 | 27101.8 |
| 60° | 25375.7 | 25956.1 | 26427.4 | 26764.6 | 27138.7 | 27407.0 | 27724.1 | 27979.0 | 28341.4 | 28769.1 | 29329.3 |
| 62.5° | 24686.3 | 25538.4 | 26164.1 | 26742.8 | 27251.0 | 27764.3 | 28218.9 | 28695.3 | 29245.5 | 29893.0 | 30761.8 |
| 65° | 21940.4 | 22807.6 | 23879.5 | 24480.0 | 25152.6 | 25944.4 | 26635.4 | 27407.0 | 28156.8 | 29099.5 | 30384.4 |
| 67.5° | 17663.0 | 18671.1 | 19875.5 | 20481.1 | 21254.3 | 22138.3 | 22913.3 | 23856.0 | 24731.6 | 25873.9 | 27462.4 |
| 70° | 12731.5 | 14034.8 | 15048.0 | 15680.3 | 16582.8 | 17493.6 | 18241.7 | 19338.8 | 20063.4 | 21234.2 | 22876.4 |
| 72.5° | 8061.6 | 9089.8 | 10331.1 | 11127.9 | 11929.7 | 12852.2 | 13617.1 | 14563.2 | 15239.2 | 16306.0 | 17793.9 |
| 75° | 4334.4 | 5092.6 | 6182.9 | 6939.4 | 7798.2 | 8586.6 | 9482.3 | 10116.4 | 10616.3 | 11460.0 | 12667.7 |
| 77.5° | 2031.3 | 2492.6 | 3044.5 | 3626.5 | 4208.6 | 4815.8 | 5406.3 | 5919.5 | 6134.3 | 6617.3 | 7330.2 |
| 80° | 1232.9 | 1382.2 | 1543.2 | 1722.7 | 1965.9 | 2162.2 | 2422.2 | 2610.0 | 2623.5 | 2776.1 | 2994.2 |
| 82.5° | 823.6 | 879.0 | 927.6 | 972.9 | 1035.0 | 1083.6 | 1139.0 | 1204.4 | 1231.2 | 1266.4 | 1336.9 |
| 85° | 561.9 | 588.8 | 598.8 | 627.3 | 620.6 | 637.4 | 659.2 | 681.0 | 692.8 | 691.1 | 723.0 |
| 87.5° | 345.5 | 359.0 | 365.7 | 372.4 | 367.4 | 360.6 | 370.7 | 382.4 | 385.8 | 375.7 | 379.1 |
| 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° | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 |
| 2.5° | 3074.7 | 3059.6 | 3044.5 | 3034.4 | 3031.1 | 2942.2 | 2903.6 | 2878.4 | 2824.7 | 2781.1 | 2745.9 |
| 5° | 3391.7 | 3359.8 | 3334.7 | 3304.5 | 3287.7 | 3062.9 | 2980.7 | 2923.7 | 2829.8 | 2774.4 | 2724.1 |
| 7.5° | 3901.6 | 3812.7 | 3760.7 | 3702.0 | 3651.7 | 3245.8 | 3109.9 | 3021.0 | 2890.2 | 2816.4 | 2759.3 |
| 10° | 4480.3 | 4388.1 | 4305.9 | 4215.3 | 4136.5 | 3489.0 | 3291.1 | 3153.5 | 2980.7 | 2885.1 | 2809.6 |
| 12.5° | 5126.1 | 5035.6 | 4931.6 | 4815.8 | 4715.2 | 3797.6 | 3522.5 | 3326.3 | 3089.8 | 2962.3 | 2856.6 |
| 15° | 5889.4 | 5730.0 | 5604.2 | 5470.0 | 5352.6 | 4166.7 | 3792.6 | 3520.9 | 3205.5 | 3032.7 | 2891.8 |
| 17.5° | 6598.9 | 6431.2 | 6260.1 | 6142.6 | 6006.8 | 4581.0 | 4064.3 | 3718.8 | 3301.1 | 3078.0 | 2898.5 |
| 20° | 7291.7 | 7108.8 | 6961.2 | 6803.5 | 6661.0 | 5010.4 | 4354.5 | 3893.2 | 3363.2 | 3079.7 | 2856.6 |
| 22.5° | 7902.2 | 7788.2 | 7623.8 | 7452.7 | 7308.4 | 5439.8 | 4626.3 | 4040.9 | 3386.7 | 3041.1 | 2782.8 |
| 25° | 8596.7 | 8475.9 | 8274.6 | 8130.4 | 7969.3 | 5877.6 | 4893.0 | 4154.9 | 3373.3 | 2969.0 | 2668.7 |
| 27.5° | 9338.1 | 9203.9 | 8997.6 | 8846.6 | 8652.0 | 6332.2 | 5137.9 | 4237.1 | 3322.9 | 2851.6 | 2516.1 |
| 30° | 10111.4 | 9988.9 | 9786.0 | 9633.3 | 9437.1 | 6813.6 | 5411.3 | 4292.5 | 3222.3 | 2688.9 | 2338.3 |
| 32.5° | 10941.7 | 10839.4 | 10638.1 | 10478.7 | 10269.0 | 7335.3 | 5666.3 | 4309.2 | 3069.6 | 2496.0 | 2150.4 |
| 35° | 11730.1 | 11659.6 | 11490.2 | 11340.9 | 11122.8 | 7828.4 | 5936.3 | 4300.9 | 2888.5 | 2284.6 | 1979.3 |
| 37.5° | 12617.4 | 12575.5 | 12491.6 | 12302.1 | 12035.3 | 8497.7 | 6260.1 | 4265.6 | 2667.1 | 2074.9 | 1848.5 |
| 40° | 13563.5 | 13566.8 | 13476.2 | 13347.1 | 13098.8 | 9309.6 | 6645.9 | 4196.9 | 2425.5 | 1890.4 | 1729.4 |
| 42.5° | 14564.9 | 14616.9 | 14573.3 | 14481.0 | 14242.8 | 10128.1 | 7107.1 | 4113.0 | 2190.7 | 1710.9 | 1612.0 |
| 45° | 15712.2 | 15776.0 | 15843.0 | 15707.2 | 15475.7 | 11208.4 | 7714.4 | 4004.0 | 1937.4 | 1561.7 | 1531.5 |
| 47.5° | 17035.7 | 17136.3 | 17196.7 | 17198.4 | 16966.9 | 12547.0 | 8700.7 | 3938.5 | 1712.6 | 1461.0 | 1492.9 |
| 50° | 19828.6 | 19860.4 | 20003.0 | 20251.3 | 20073.5 | 15645.1 | 10423.4 | 3898.3 | 1560.0 | 1399.0 | 1464.4 |
| 52.5° | 23852.6 | 24203.2 | 24449.8 | 24433.0 | 24191.5 | 17612.7 | 11372.8 | 3690.3 | 1469.4 | 1375.5 | 1451.0 |
| 55° | 25491.5 | 25929.3 | 26385.5 | 26506.3 | 26318.4 | 19291.8 | 12270.2 | 3482.3 | 1425.8 | 1392.2 | 1456.0 |
| 57.5° | 27675.4 | 28413.5 | 29039.2 | 29302.5 | 29030.8 | 21440.5 | 13451.1 | 3373.3 | 1412.4 | 1437.5 | 1487.9 |
| 60° | 30226.8 | 31139.3 | 31961.2 | 32434.2 | 32434.2 | 23909.7 | 14675.6 | 3328.0 | 1393.9 | 1504.6 | 1541.5 |
| 62.5° | 31865.6 | 33205.8 | 34447.1 | 35139.9 | 35119.7 | 25629.0 | 15219.1 | 3173.6 | 1352.0 | 1551.6 | 1615.3 |
| 65° | 31872.3 | 33465.8 | 35047.6 | 35825.9 | 35866.2 | 25417.6 | 14321.6 | 2802.9 | 1274.8 | 1558.3 | 1689.1 |
| 67.5° | 29215.3 | 30914.5 | 32758.0 | 33628.5 | 33829.8 | 23398.1 | 12397.7 | 2304.7 | 1149.0 | 1491.2 | 1716.0 |
| 70° | 24674.6 | 26333.5 | 28215.6 | 29071.0 | 29428.3 | 19946.0 | 9985.6 | 1776.4 | 988.0 | 1343.6 | 1660.6 |
| 72.5° | 19439.4 | 21066.5 | 22376.5 | 23002.2 | 23280.6 | 15245.9 | 7271.5 | 1341.9 | 810.2 | 1132.2 | 1511.3 |
| 75° | 13763.1 | 14984.2 | 15680.3 | 15819.6 | 15863.2 | 9190.5 | 4418.3 | 998.1 | 667.6 | 880.6 | 1276.5 |
| 77.5° | 7768.0 | 8291.4 | 8234.4 | 8296.4 | 7779.8 | 3547.7 | 1924.0 | 714.6 | 550.2 | 669.3 | 989.7 |
| 80° | 3032.7 | 3126.7 | 2937.1 | 2878.4 | 2640.2 | 1320.1 | 848.8 | 498.2 | 439.5 | 506.6 | 692.8 |
| 82.5° | 1336.9 | 1380.5 | 1340.2 | 1350.3 | 1291.6 | 681.0 | 508.3 | 360.6 | 335.5 | 370.7 | 459.6 |
| 85° | 736.4 | 749.8 | 746.4 | 768.2 | 736.4 | 271.7 | 241.5 | 221.4 | 234.8 | 251.6 | 295.2 |
| 87.5° | 359.0 | 362.3 | 350.6 | 369.0 | 357.3 | 137.5 | 119.1 | 125.8 | 137.5 | 140.9 | 140.9 |
| 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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