

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: P194760

Luminaire Tested: **GAN-AF-02-LED-U-T2R-7060-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194760
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-02-LED-U-T2R-7060-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13919 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

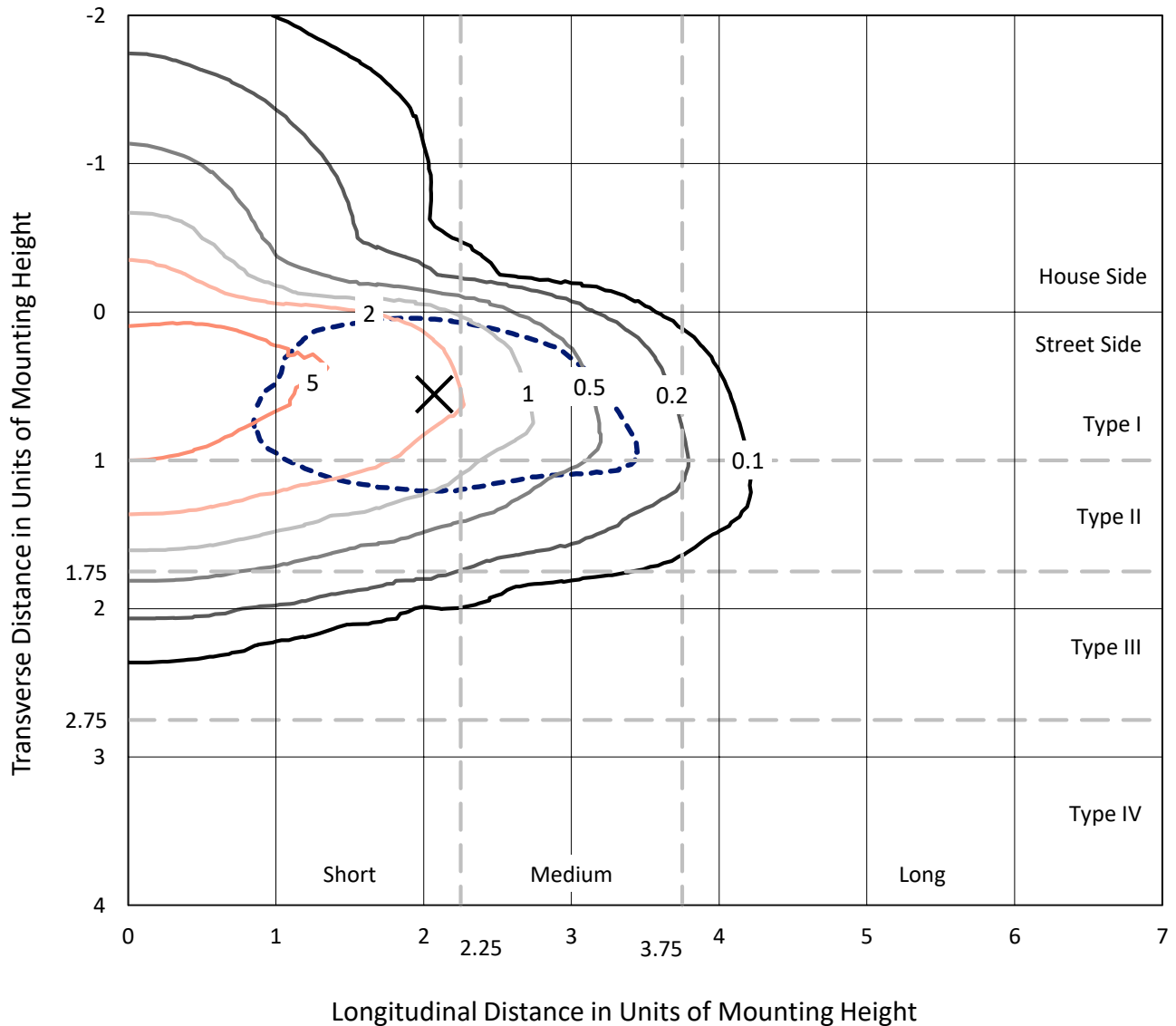


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

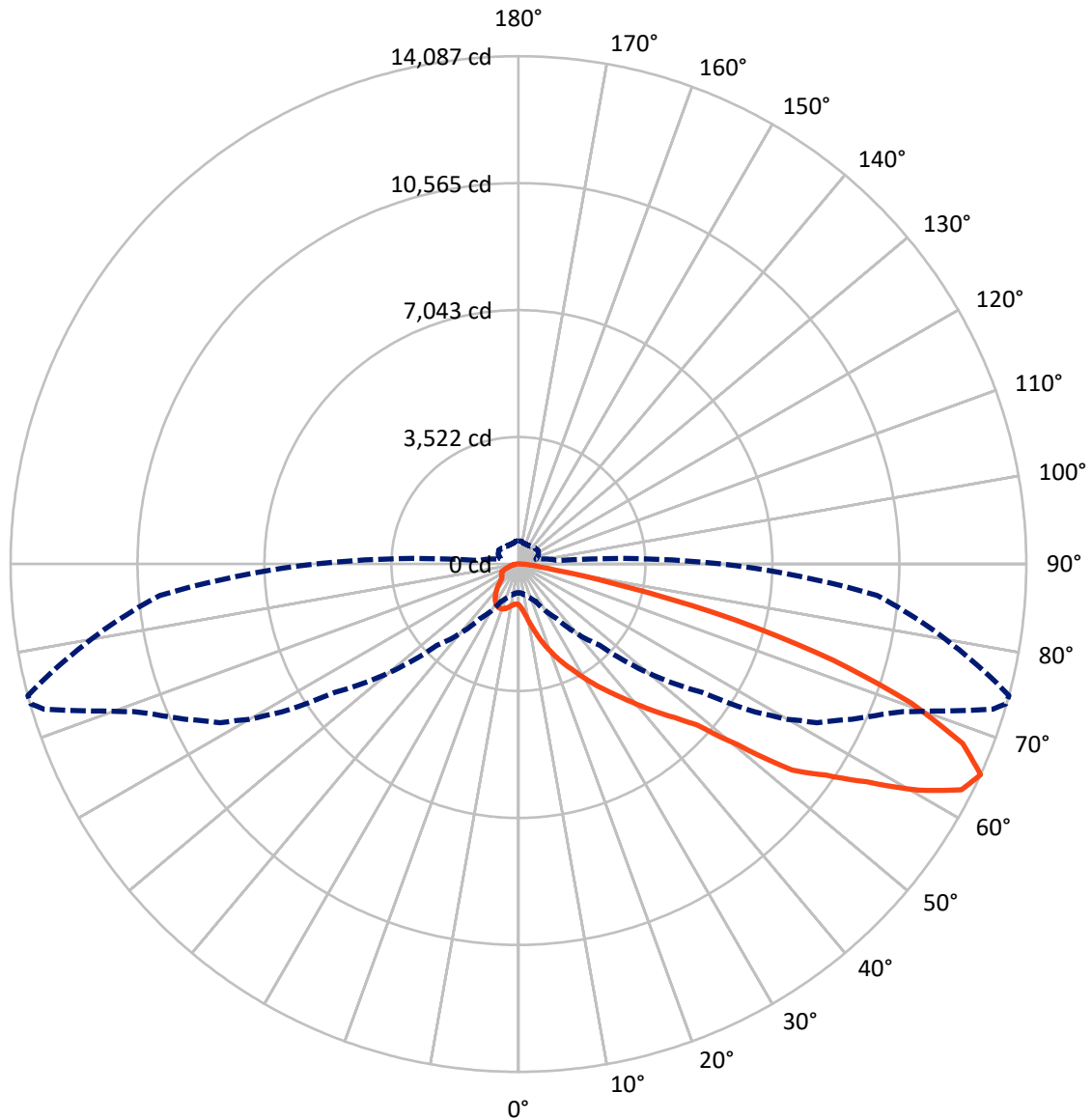


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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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 | 2146.0 | 0.0 | 2146.0 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 11773.0 | 0.0 | 11773.0 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 13919.0 | 0.0 | 13919.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 139.8 | 1.0 |
| 10°-20° | 546.3 | 3.9 |
| 20°-30° | 1120.8 | 8.1 |
| 30°-40° | 1885.7 | 13.5 |
| 40°-50° | 2605.6 | 18.7 |
| 50°-60° | 3252.5 | 23.4 |
| 60°-70° | 2926.9 | 21.0 |
| 70°-80° | 1226.9 | 8.8 |
| 80°-90° | 214.4 | 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° | 13919.0 | 100.0 |
| 0°-180° | 13919.0 | 100.0 |

Coefficient of Utilization



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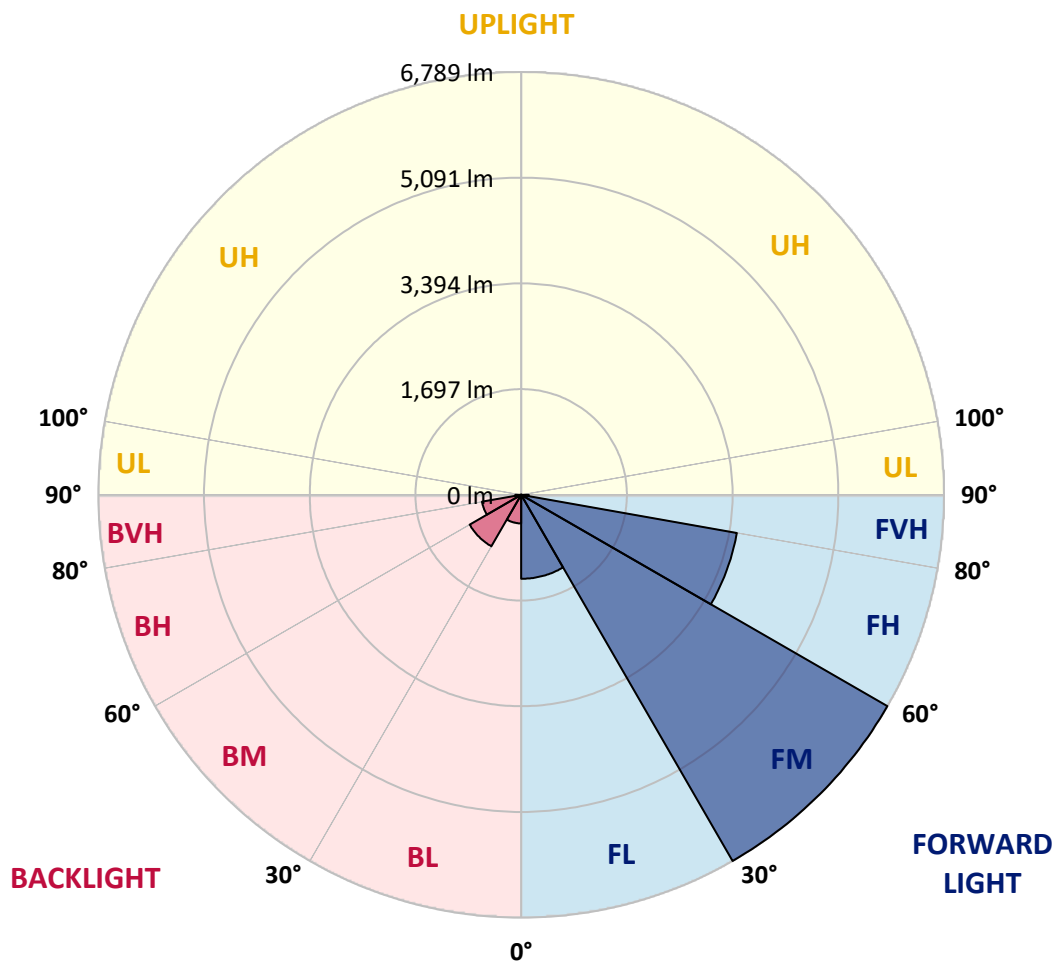
CATALOG NUMBER: GAN-AF-02-LED-U-T2R-7060-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1348.0 | 9.7 | | | |
| FM | (30°-60°) | 6788.6 | 48.8 | | | |
| FH | (60°-80°) | 3515.9 | 25.3 | | | G2/5000 |
| FVH | (80°-90°) | 120.5 | 0.9 | | | G2/225 |
| BL | (0°-30°) | 458.9 | 3.3 | B1/500 | | |
| BM | (30°-60°) | 955.2 | 6.9 | B1/1000 | | |
| BH | (60°-80°) | 638.0 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 93.9 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 |
| 2.5° | 1436.2 | 1420.4 | 1424.4 | 1398.0 | 1365.7 | 1323.6 | 1276.8 | 1276.1 | 1276.8 | 1272.2 | 1255.0 |
| 5° | 1991.6 | 1972.5 | 1965.2 | 1906.0 | 1819.0 | 1695.1 | 1560.7 | 1546.2 | 1540.3 | 1525.2 | 1490.2 |
| 7.5° | 2396.8 | 2386.2 | 2375.0 | 2330.2 | 2251.2 | 2112.8 | 1932.3 | 1901.3 | 1871.7 | 1864.4 | 1824.9 |
| 10° | 2658.3 | 2655.7 | 2632.0 | 2620.1 | 2570.7 | 2450.8 | 2274.9 | 2245.2 | 2213.0 | 2201.8 | 2160.3 |
| 12.5° | 2865.2 | 2864.5 | 2853.3 | 2856.6 | 2813.8 | 2726.8 | 2575.3 | 2548.3 | 2524.6 | 2490.3 | 2460.7 |
| 15° | 3008.1 | 3008.8 | 3025.3 | 3043.7 | 3037.1 | 2978.5 | 2836.2 | 2824.3 | 2803.9 | 2780.2 | 2745.3 |
| 17.5° | 3125.4 | 3128.7 | 3145.8 | 3179.4 | 3215.7 | 3211.1 | 3098.4 | 3088.5 | 3070.7 | 3038.5 | 3020.0 |
| 20° | 3390.3 | 3402.8 | 3369.8 | 3369.8 | 3373.8 | 3391.6 | 3337.6 | 3329.6 | 3304.6 | 3287.5 | 3273.0 |
| 22.5° | 3837.6 | 3852.1 | 3777.6 | 3701.9 | 3627.4 | 3573.4 | 3519.4 | 3529.3 | 3512.1 | 3500.3 | 3491.7 |
| 25° | 4418.7 | 4429.9 | 4309.3 | 4181.5 | 4030.0 | 3832.3 | 3698.6 | 3692.7 | 3683.4 | 3676.2 | 3672.2 |
| 27.5° | 4965.5 | 4970.1 | 4856.1 | 4669.0 | 4493.1 | 4209.2 | 3880.4 | 3873.2 | 3862.0 | 3848.1 | 3836.3 |
| 30° | 5433.2 | 5431.9 | 5314.7 | 5136.1 | 4947.7 | 4633.4 | 4156.5 | 4134.1 | 4101.1 | 4063.6 | 4034.6 |
| 32.5° | 5838.4 | 5836.4 | 5708.0 | 5522.8 | 5325.2 | 5053.8 | 4534.6 | 4488.5 | 4437.1 | 4364.0 | 4319.8 |
| 35° | 6157.3 | 6156.0 | 6034.7 | 5841.7 | 5615.1 | 5449.7 | 4968.1 | 4911.5 | 4846.2 | 4748.1 | 4680.2 |
| 37.5° | 6277.8 | 6277.8 | 6210.0 | 6078.2 | 5877.9 | 5764.6 | 5449.7 | 5381.2 | 5311.4 | 5200.0 | 5123.6 |
| 40° | 6207.4 | 6208.7 | 6223.2 | 6198.8 | 6101.3 | 6014.3 | 5899.0 | 5858.2 | 5798.2 | 5698.1 | 5618.4 |
| 42.5° | 5970.8 | 5978.1 | 6074.3 | 6192.2 | 6241.0 | 6227.1 | 6297.6 | 6279.2 | 6237.0 | 6159.9 | 6096.7 |
| 45° | 5671.1 | 5693.5 | 5798.9 | 6021.6 | 6279.8 | 6410.9 | 6631.6 | 6633.6 | 6625.7 | 6584.2 | 6535.4 |
| 47.5° | 5259.3 | 5290.9 | 5430.0 | 5731.0 | 6188.9 | 6589.5 | 6970.9 | 6988.7 | 7005.2 | 6978.2 | 6955.8 |
| 50° | 4712.5 | 4750.1 | 4958.2 | 5357.5 | 6003.8 | 6774.6 | 7611.9 | 7692.3 | 7767.4 | 7758.2 | 7773.4 |
| 52.5° | 4126.8 | 4171.0 | 4425.9 | 4870.6 | 5685.6 | 6817.4 | 8021.7 | 8152.8 | 8283.9 | 8391.3 | 8505.3 |
| 55° | 3598.4 | 3574.7 | 3829.7 | 4298.1 | 5162.5 | 6624.4 | 8390.0 | 8548.1 | 8694.4 | 8826.1 | 8961.9 |
| 57.5° | 2882.3 | 2921.2 | 3176.8 | 3640.0 | 4470.1 | 6079.5 | 8643.7 | 8874.9 | 9085.1 | 9303.1 | 9495.5 |
| 60° | 2106.9 | 2145.8 | 2423.1 | 2893.5 | 3718.4 | 5253.4 | 8450.0 | 8800.4 | 9137.1 | 9471.1 | 9732.0 |
| 62.5° | 1272.2 | 1301.2 | 1545.6 | 1993.6 | 2867.2 | 4273.7 | 7586.9 | 8046.8 | 8542.2 | 8941.4 | 9341.3 |
| 65° | 791.9 | 808.4 | 898.6 | 1145.0 | 1841.4 | 3190.6 | 6198.8 | 6700.1 | 7233.8 | 7740.4 | 8156.1 |
| 67.5° | 648.3 | 654.2 | 670.7 | 723.4 | 1011.3 | 2080.5 | 4613.7 | 5057.7 | 5539.3 | 6029.5 | 6492.0 |
| 70° | 583.1 | 579.1 | 579.1 | 582.4 | 648.3 | 1118.7 | 3020.7 | 3309.9 | 3711.1 | 4137.4 | 4560.3 |
| 72.5° | 526.4 | 522.4 | 515.2 | 505.3 | 529.0 | 682.5 | 1561.4 | 1779.5 | 2068.7 | 2447.5 | 2852.7 |
| 75° | 473.0 | 467.8 | 459.2 | 446.7 | 463.1 | 515.2 | 749.7 | 841.3 | 982.3 | 1183.9 | 1409.9 |
| 77.5° | 417.7 | 411.1 | 403.2 | 394.0 | 415.1 | 400.6 | 439.4 | 472.4 | 526.4 | 591.0 | 675.9 |
| 80° | 355.1 | 349.2 | 346.5 | 341.9 | 367.0 | 305.0 | 310.3 | 330.7 | 362.3 | 397.3 | 436.8 |
| 82.5° | 278.0 | 278.0 | 288.6 | 290.5 | 318.2 | 219.4 | 231.9 | 249.7 | 266.2 | 284.6 | 303.1 |
| 85° | 183.2 | 184.5 | 220.0 | 233.9 | 251.0 | 147.6 | 173.9 | 179.9 | 193.0 | 203.6 | 211.5 |
| 87.5° | 57.3 | 61.9 | 134.4 | 148.9 | 144.3 | 83.7 | 106.7 | 109.4 | 118.6 | 125.8 | 132.4 |
| 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-02-LED-U-T2R-7060-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 |
| 2.5° | 1255.0 | 1247.1 | 1239.9 | 1239.2 | 1234.0 | 1226.7 | 1229.3 | 1218.1 | 1218.8 | 1212.9 | 1206.3 |
| 5° | 1475.7 | 1470.5 | 1444.1 | 1436.9 | 1417.1 | 1404.6 | 1402.6 | 1376.3 | 1373.0 | 1357.8 | 1341.3 |
| 7.5° | 1793.3 | 1776.2 | 1739.3 | 1721.5 | 1687.9 | 1662.8 | 1651.0 | 1616.1 | 1598.9 | 1559.4 | 1541.6 |
| 10° | 2126.0 | 2104.3 | 2058.8 | 2033.8 | 2001.5 | 1961.3 | 1939.6 | 1888.8 | 1869.1 | 1832.8 | 1789.3 |
| 12.5° | 2434.3 | 2412.6 | 2365.8 | 2346.7 | 2303.9 | 2261.1 | 2237.3 | 2180.0 | 2154.3 | 2096.3 | 2062.1 |
| 15° | 2719.6 | 2697.8 | 2657.0 | 2637.2 | 2594.4 | 2559.5 | 2527.9 | 2471.2 | 2440.9 | 2386.9 | 2342.1 |
| 17.5° | 2996.3 | 2973.2 | 2937.7 | 2919.9 | 2878.4 | 2842.8 | 2808.5 | 2755.2 | 2724.2 | 2670.2 | 2630.0 |
| 20° | 3253.2 | 3236.1 | 3210.4 | 3186.7 | 3145.2 | 3112.9 | 3072.1 | 3025.9 | 2981.1 | 2941.6 | 2903.4 |
| 22.5° | 3477.2 | 3470.6 | 3443.0 | 3432.4 | 3396.8 | 3369.2 | 3333.6 | 3288.1 | 3255.9 | 3205.8 | 3170.2 |
| 25° | 3670.3 | 3668.3 | 3655.1 | 3651.8 | 3626.8 | 3600.4 | 3592.5 | 3555.0 | 3525.3 | 3481.2 | 3444.3 |
| 27.5° | 3836.3 | 3838.3 | 3835.0 | 3844.2 | 3837.6 | 3825.7 | 3826.4 | 3813.9 | 3796.7 | 3759.9 | 3727.6 |
| 30° | 4020.7 | 4010.2 | 4016.1 | 4029.3 | 4033.3 | 4034.6 | 4056.3 | 4063.6 | 4062.3 | 4037.9 | 4022.1 |
| 32.5° | 4281.6 | 4256.6 | 4233.5 | 4231.6 | 4244.7 | 4250.0 | 4286.9 | 4306.0 | 4322.5 | 4328.4 | 4331.0 |
| 35° | 4614.3 | 4564.3 | 4516.2 | 4490.5 | 4468.1 | 4474.0 | 4500.4 | 4531.3 | 4567.6 | 4592.6 | 4622.2 |
| 37.5° | 5033.3 | 4972.1 | 4887.1 | 4826.5 | 4811.3 | 4778.4 | 4795.5 | 4819.9 | 4855.5 | 4894.3 | 4945.7 |
| 40° | 5541.3 | 5448.4 | 5352.9 | 5272.5 | 5229.0 | 5168.4 | 5167.7 | 5163.1 | 5184.9 | 5221.1 | 5293.6 |
| 42.5° | 6030.1 | 5947.8 | 5846.3 | 5762.0 | 5705.3 | 5624.3 | 5607.8 | 5565.0 | 5574.9 | 5606.5 | 5677.0 |
| 45° | 6488.0 | 6420.2 | 6358.2 | 6260.7 | 6212.6 | 6125.0 | 6097.3 | 6046.6 | 6018.3 | 6032.8 | 6103.3 |
| 47.5° | 6931.4 | 6887.9 | 6823.3 | 6760.1 | 6723.2 | 6644.8 | 6609.2 | 6573.0 | 6536.8 | 6535.4 | 6609.2 |
| 50° | 7795.8 | 7772.7 | 7696.3 | 7630.4 | 7648.2 | 7552.0 | 7557.9 | 7460.4 | 7504.6 | 7509.8 | 7664.7 |
| 52.5° | 8608.1 | 8688.4 | 8745.1 | 8814.3 | 8859.1 | 8867.6 | 8897.3 | 8941.4 | 8994.8 | 9100.2 | 9243.8 |
| 55° | 9073.2 | 9174.0 | 9232.6 | 9285.3 | 9372.3 | 9390.7 | 9440.2 | 9498.8 | 9545.6 | 9664.2 | 9786.0 |
| 57.5° | 9625.9 | 9813.0 | 9904.0 | 9987.6 | 10104.9 | 10149.7 | 10232.1 | 10296.0 | 10356.6 | 10496.9 | 10644.5 |
| 60° | 9966.6 | 10194.5 | 10379.6 | 10512.0 | 10659.0 | 10764.4 | 10888.9 | 10989.0 | 11131.3 | 11299.3 | 11519.4 |
| 62.5° | 9695.8 | 10030.5 | 10276.2 | 10503.5 | 10703.1 | 10904.7 | 11083.2 | 11270.3 | 11486.4 | 11740.7 | 12082.0 |
| 65° | 8617.3 | 8957.9 | 9378.9 | 9614.7 | 9878.9 | 10189.9 | 10461.3 | 10764.4 | 11058.9 | 11429.1 | 11933.8 |
| 67.5° | 6937.3 | 7333.3 | 7806.3 | 8044.1 | 8347.8 | 8695.0 | 8999.4 | 9369.7 | 9713.6 | 10162.2 | 10786.1 |
| 70° | 5000.4 | 5512.3 | 5910.2 | 6158.6 | 6513.0 | 6870.8 | 7164.6 | 7595.5 | 7880.1 | 8339.9 | 8984.9 |
| 72.5° | 3166.3 | 3570.1 | 4057.6 | 4370.6 | 4685.5 | 5047.8 | 5348.3 | 5719.8 | 5985.3 | 6404.3 | 6988.7 |
| 75° | 1702.4 | 2000.2 | 2428.4 | 2725.5 | 3062.8 | 3372.5 | 3724.3 | 3973.3 | 4169.6 | 4501.0 | 4975.4 |
| 77.5° | 797.8 | 979.0 | 1195.7 | 1424.4 | 1653.0 | 1891.5 | 2123.4 | 2325.0 | 2409.3 | 2599.0 | 2879.0 |
| 80° | 484.2 | 542.9 | 606.1 | 676.6 | 772.1 | 849.2 | 951.3 | 1025.1 | 1030.4 | 1090.3 | 1176.0 |
| 82.5° | 323.5 | 345.2 | 364.3 | 382.1 | 406.5 | 425.6 | 447.3 | 473.0 | 483.6 | 497.4 | 525.1 |
| 85° | 220.7 | 231.2 | 235.2 | 246.4 | 243.8 | 250.3 | 258.9 | 267.5 | 272.1 | 271.4 | 283.9 |
| 87.5° | 135.7 | 141.0 | 143.6 | 146.3 | 144.3 | 141.6 | 145.6 | 150.2 | 151.5 | 147.6 | 148.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 | 1131.2 |
| 2.5° | 1207.6 | 1201.7 | 1195.7 | 1191.8 | 1190.5 | 1155.6 | 1140.4 | 1130.5 | 1109.4 | 1092.3 | 1078.5 |
| 5° | 1332.1 | 1319.6 | 1309.7 | 1297.9 | 1291.3 | 1203.0 | 1170.7 | 1148.3 | 1111.4 | 1089.7 | 1069.9 |
| 7.5° | 1532.4 | 1497.5 | 1477.1 | 1454.0 | 1434.2 | 1274.8 | 1221.4 | 1186.5 | 1135.1 | 1106.2 | 1083.8 |
| 10° | 1759.7 | 1723.5 | 1691.2 | 1655.6 | 1624.6 | 1370.3 | 1292.6 | 1238.6 | 1170.7 | 1133.2 | 1103.5 |
| 12.5° | 2013.3 | 1977.8 | 1936.9 | 1891.5 | 1851.9 | 1491.6 | 1383.5 | 1306.4 | 1213.5 | 1163.5 | 1122.0 |
| 15° | 2313.1 | 2250.5 | 2201.1 | 2148.4 | 2102.3 | 1636.5 | 1489.6 | 1382.9 | 1259.0 | 1191.1 | 1135.8 |
| 17.5° | 2591.8 | 2525.9 | 2458.7 | 2412.6 | 2359.2 | 1799.2 | 1596.3 | 1460.6 | 1296.5 | 1208.9 | 1138.4 |
| 20° | 2863.9 | 2792.1 | 2734.1 | 2672.2 | 2616.2 | 1967.9 | 1710.3 | 1529.1 | 1320.9 | 1209.6 | 1122.0 |
| 22.5° | 3103.7 | 3058.9 | 2994.3 | 2927.1 | 2870.5 | 2136.5 | 1817.0 | 1587.1 | 1330.1 | 1194.4 | 1093.0 |
| 25° | 3376.4 | 3329.0 | 3249.9 | 3193.3 | 3130.0 | 2308.5 | 1921.8 | 1631.9 | 1324.9 | 1166.1 | 1048.2 |
| 27.5° | 3667.6 | 3614.9 | 3533.9 | 3474.6 | 3398.2 | 2487.0 | 2017.9 | 1664.2 | 1305.1 | 1120.0 | 988.2 |
| 30° | 3971.3 | 3923.2 | 3843.5 | 3783.6 | 3706.5 | 2676.1 | 2125.3 | 1685.9 | 1265.6 | 1056.1 | 918.4 |
| 32.5° | 4297.4 | 4257.3 | 4178.2 | 4115.6 | 4033.3 | 2881.0 | 2225.5 | 1692.5 | 1205.6 | 980.3 | 844.6 |
| 35° | 4607.1 | 4579.4 | 4512.9 | 4454.2 | 4368.6 | 3074.7 | 2331.5 | 1689.2 | 1134.5 | 897.3 | 777.4 |
| 37.5° | 4955.6 | 4939.1 | 4906.2 | 4831.7 | 4727.0 | 3337.6 | 2458.7 | 1675.4 | 1047.5 | 815.0 | 726.0 |
| 40° | 5327.2 | 5328.5 | 5292.9 | 5242.2 | 5144.7 | 3656.4 | 2610.2 | 1648.4 | 952.6 | 742.5 | 679.2 |
| 42.5° | 5720.5 | 5740.9 | 5723.8 | 5687.5 | 5594.0 | 3977.9 | 2791.4 | 1615.4 | 860.4 | 672.0 | 633.1 |
| 45° | 6171.1 | 6196.2 | 6222.5 | 6169.1 | 6078.2 | 4402.2 | 3029.9 | 1572.6 | 760.9 | 613.4 | 601.5 |
| 47.5° | 6690.9 | 6730.5 | 6754.2 | 6754.8 | 6663.9 | 4927.9 | 3417.3 | 1546.9 | 672.6 | 573.8 | 586.3 |
| 50° | 7787.8 | 7800.4 | 7856.4 | 7953.9 | 7884.0 | 6144.8 | 4093.9 | 1531.1 | 612.7 | 549.5 | 575.1 |
| 52.5° | 9368.3 | 9506.0 | 9602.9 | 9596.3 | 9501.4 | 6917.6 | 4466.8 | 1449.4 | 577.1 | 540.2 | 569.9 |
| 55° | 10012.0 | 10184.0 | 10363.2 | 10410.6 | 10336.8 | 7577.0 | 4819.2 | 1367.7 | 560.0 | 546.8 | 571.9 |
| 57.5° | 10869.8 | 11159.7 | 11405.4 | 11508.8 | 11402.1 | 8421.0 | 5283.0 | 1324.9 | 554.7 | 564.6 | 584.4 |
| 60° | 11871.8 | 12230.2 | 12553.1 | 12738.8 | 12738.8 | 9390.7 | 5764.0 | 1307.1 | 547.5 | 591.0 | 605.5 |
| 62.5° | 12515.5 | 13041.9 | 13529.4 | 13801.5 | 13793.6 | 10066.0 | 5977.4 | 1246.5 | 531.0 | 609.4 | 634.4 |
| 65° | 12518.1 | 13144.0 | 13765.3 | 14071.0 | 14086.8 | 9983.0 | 5625.0 | 1100.9 | 500.7 | 612.0 | 663.4 |
| 67.5° | 11474.6 | 12142.0 | 12866.0 | 13207.9 | 13287.0 | 9189.8 | 4869.3 | 905.2 | 451.3 | 585.7 | 674.0 |
| 70° | 9691.2 | 10342.7 | 11081.9 | 11417.9 | 11558.2 | 7834.0 | 3921.9 | 697.7 | 388.0 | 527.7 | 652.2 |
| 72.5° | 7635.0 | 8274.1 | 8788.6 | 9034.3 | 9143.7 | 5988.0 | 2856.0 | 527.1 | 318.2 | 444.7 | 593.6 |
| 75° | 5405.6 | 5885.2 | 6158.6 | 6213.3 | 6230.4 | 3609.6 | 1735.3 | 392.0 | 262.2 | 345.9 | 501.4 |
| 77.5° | 3051.0 | 3256.5 | 3234.1 | 3258.5 | 3055.6 | 1393.4 | 755.7 | 280.7 | 216.1 | 262.9 | 388.7 |
| 80° | 1191.1 | 1228.0 | 1153.6 | 1130.5 | 1037.0 | 518.5 | 333.4 | 195.7 | 172.6 | 199.0 | 272.1 |
| 82.5° | 525.1 | 542.2 | 526.4 | 530.3 | 507.3 | 267.5 | 199.6 | 141.6 | 131.8 | 145.6 | 180.5 |
| 85° | 289.2 | 294.5 | 293.2 | 301.7 | 289.2 | 106.7 | 94.9 | 87.0 | 92.2 | 98.8 | 116.0 |
| 87.5° | 141.0 | 142.3 | 137.7 | 144.9 | 140.3 | 54.0 | 46.8 | 49.4 | 54.0 | 55.3 | 55.3 |
| 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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| 2.5° | 1068.6 | 1063.3 | 1064.0 | 1062.7 | 1060.0 | 1060.0 |
| 5° | 1059.4 | 1054.1 | 1054.1 | 1052.8 | 1049.5 | 1050.2 |
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| 30° | 834.1 | 789.3 | 766.9 | 759.0 | 751.7 | 750.4 |
| 32.5° | 776.7 | 748.4 | 739.8 | 728.6 | 711.5 | 709.5 |
| 35° | 735.9 | 733.3 | 727.3 | 702.3 | 681.2 | 675.3 |
| 37.5° | 710.9 | 735.2 | 704.9 | 655.5 | 640.4 | 639.1 |
| 40° | 696.4 | 714.8 | 662.8 | 645.6 | 647.0 | 645.6 |
| 42.5° | 663.4 | 682.5 | 664.1 | 656.2 | 661.5 | 662.8 |
| 45° | 630.5 | 651.6 | 674.0 | 668.7 | 681.2 | 681.2 |
| 47.5° | 612.0 | 643.7 | 673.3 | 673.3 | 691.8 | 698.3 |
| 50° | 591.0 | 637.1 | 662.8 | 672.0 | 686.5 | 681.2 |
| 52.5° | 589.6 | 625.9 | 647.6 | 664.1 | 670.7 | 664.7 |
| 55° | 591.6 | 616.7 | 632.5 | 650.9 | 658.8 | 659.5 |
| 57.5° | 594.3 | 611.4 | 621.9 | 630.5 | 654.2 | 654.2 |
| 60° | 600.8 | 606.8 | 612.7 | 617.3 | 648.3 | 648.9 |
| 62.5° | 611.4 | 602.2 | 600.8 | 605.5 | 645.0 | 642.3 |
| 65° | 627.9 | 595.6 | 585.7 | 590.3 | 641.7 | 633.8 |
| 67.5° | 650.3 | 585.7 | 566.6 | 569.9 | 639.1 | 621.9 |
| 70° | 670.7 | 569.9 | 542.9 | 539.6 | 614.0 | 583.7 |
| 72.5° | 672.6 | 551.4 | 509.9 | 500.0 | 533.6 | 504.7 |
| 75° | 639.7 | 538.9 | 473.7 | 444.7 | 440.7 | 436.8 |
| 77.5° | 576.5 | 531.7 | 431.5 | 386.1 | 378.2 | 380.8 |
| 80° | 482.3 | 504.7 | 380.8 | 326.8 | 369.6 | 365.0 |
| 82.5° | 360.4 | 445.4 | 323.5 | 289.2 | 288.6 | 255.0 |
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