

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: P191021

Luminaire Tested: **GAN-AF-03-LED-U-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20845.7 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

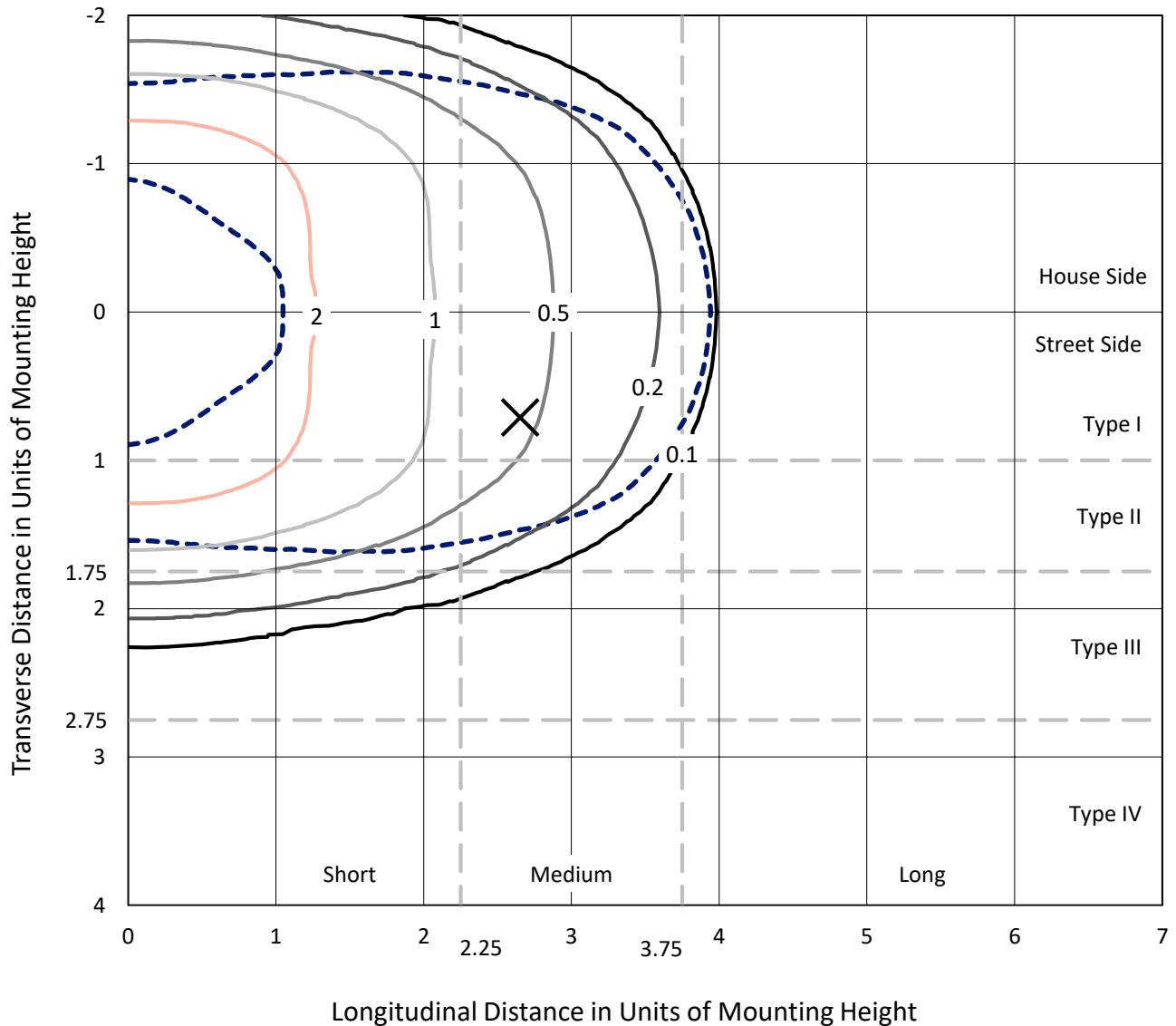
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191021
 CATALOG NUMBER: GAN-AF-03-LED-U-RW-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

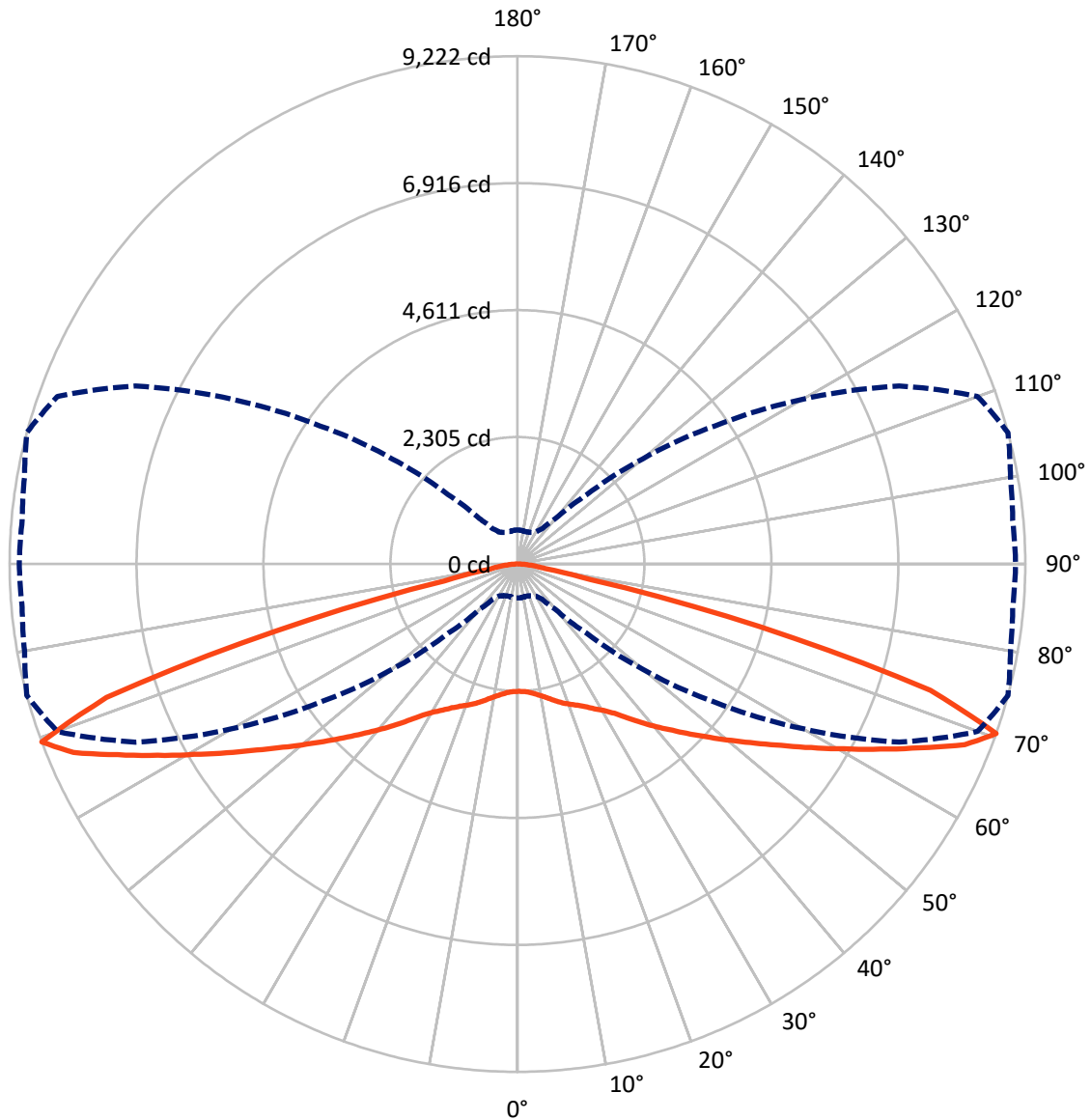


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P191021

CATALOG NUMBER: GAN-AF-03-LED-U-RW-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191021

CATALOG NUMBER: GAN-AF-03-LED-U-RW-1200

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10422.8 | 0.0 | 10422.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10422.8 | 0.0 | 10422.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20845.7 | 0.0 | 20845.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 221.8 | 1.1 |
| 10°-20° | 689.1 | 3.3 |
| 20°-30° | 1296.9 | 6.2 |
| 30°-40° | 2296.6 | 11.0 |
| 40°-50° | 3840.6 | 18.4 |
| 50°-60° | 5351.9 | 25.7 |
| 60°-70° | 4963.0 | 23.8 |
| 70°-80° | 1977.9 | 9.5 |
| 80°-90° | 207.9 | 1.0 |
| 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° | 20845.7 | 100.0 |
| 0°-180° | 20845.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191021

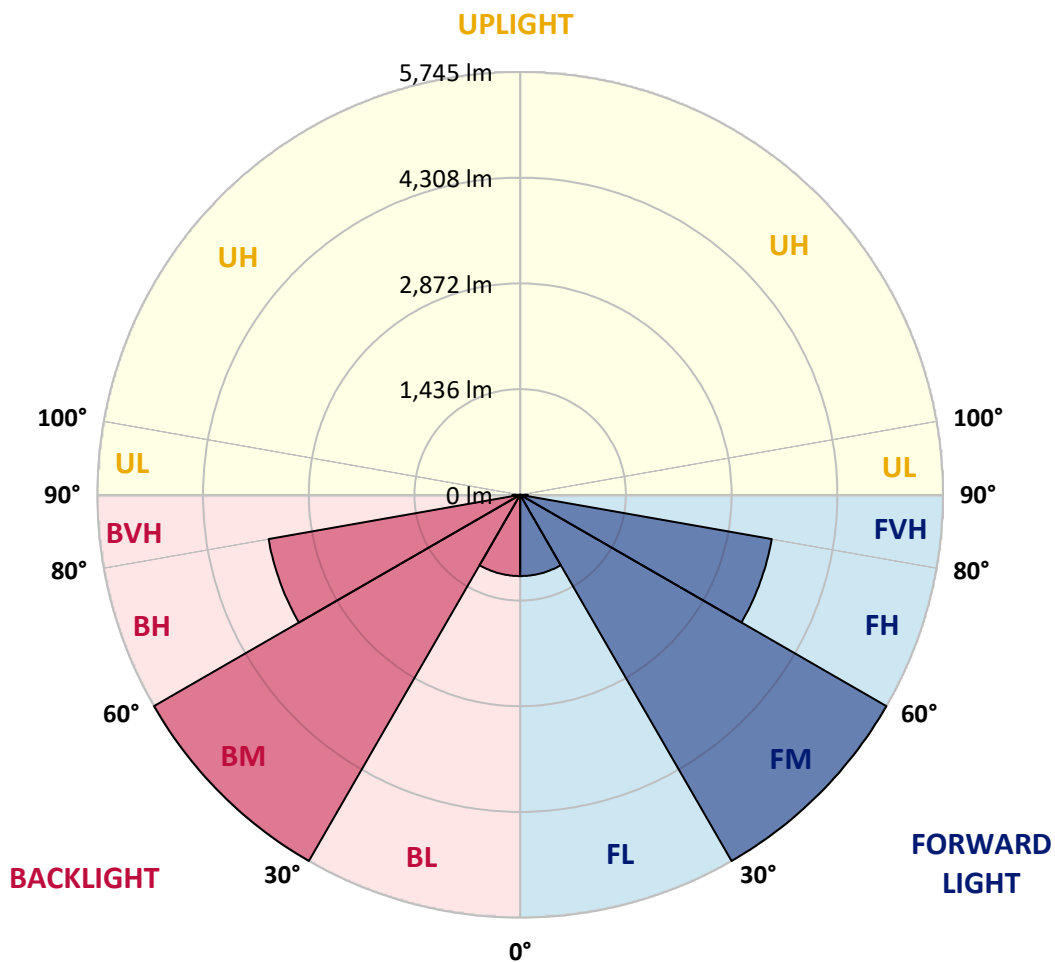
CATALOG NUMBER: GAN-AF-03-LED-U-RW-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1103.9 | 5.3 | | | |
| FM | (30°-60°) | 5744.6 | 27.6 | | | |
| FH | (60°-80°) | 3470.5 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 104.0 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1103.9 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 5744.6 | 27.6 | B4/8500 | | |
| BH | (60°-80°) | 3470.5 | 16.6 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 104.0 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Medium





REPORT NUMBER: P191021

CATALOG NUMBER: GAN-AF-03-LED-U-RW-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 |
| 2.5° | 2308.3 | 2306.3 | 2308.3 | 2307.4 | 2309.3 | 2309.3 | 2311.3 | 2315.2 | 2315.2 | 2318.2 | 2317.2 |
| 5° | 2285.7 | 2284.7 | 2287.6 | 2290.6 | 2293.6 | 2299.5 | 2305.4 | 2314.2 | 2321.2 | 2326.1 | 2331.0 |
| 7.5° | 2241.4 | 2241.4 | 2245.3 | 2252.1 | 2259.1 | 2271.9 | 2285.7 | 2303.4 | 2321.2 | 2335.9 | 2348.7 |
| 10° | 2204.9 | 2206.8 | 2211.8 | 2223.6 | 2235.5 | 2255.1 | 2273.8 | 2299.5 | 2324.1 | 2348.7 | 2368.4 |
| 12.5° | 2183.2 | 2186.1 | 2195.0 | 2212.7 | 2232.5 | 2259.1 | 2287.6 | 2320.2 | 2347.8 | 2377.3 | 2397.0 |
| 15° | 2190.1 | 2192.1 | 2204.9 | 2226.6 | 2252.1 | 2285.7 | 2324.1 | 2362.5 | 2395.0 | 2426.5 | 2453.1 |
| 17.5° | 2228.5 | 2231.5 | 2246.3 | 2270.8 | 2297.4 | 2336.9 | 2378.3 | 2421.6 | 2462.0 | 2497.5 | 2530.0 |
| 20° | 2297.4 | 2300.4 | 2319.1 | 2345.7 | 2377.3 | 2417.6 | 2459.1 | 2504.4 | 2549.7 | 2587.1 | 2623.6 |
| 22.5° | 2395.0 | 2399.9 | 2417.6 | 2444.3 | 2479.7 | 2523.1 | 2572.4 | 2620.6 | 2664.0 | 2698.4 | 2731.0 |
| 25° | 2523.1 | 2534.0 | 2550.7 | 2580.3 | 2617.7 | 2657.1 | 2710.3 | 2759.5 | 2800.9 | 2833.5 | 2857.1 |
| 27.5° | 2704.4 | 2719.2 | 2732.0 | 2760.5 | 2797.0 | 2834.4 | 2887.6 | 2931.0 | 2970.3 | 3002.0 | 3019.6 |
| 30° | 2944.8 | 2959.6 | 2972.4 | 2999.9 | 3033.5 | 3069.0 | 3119.2 | 3157.5 | 3182.2 | 3206.8 | 3205.8 |
| 32.5° | 3236.4 | 3252.2 | 3257.1 | 3286.6 | 3321.1 | 3359.6 | 3404.9 | 3426.6 | 3446.2 | 3449.2 | 3431.5 |
| 35° | 3562.5 | 3570.4 | 3590.0 | 3629.5 | 3668.9 | 3700.4 | 3743.8 | 3754.6 | 3754.6 | 3739.8 | 3700.4 |
| 37.5° | 3920.2 | 3925.1 | 3952.7 | 3997.0 | 4037.4 | 4069.9 | 4099.5 | 4121.1 | 4110.3 | 4078.7 | 4012.7 |
| 40° | 4312.2 | 4321.1 | 4360.5 | 4399.9 | 4445.2 | 4475.8 | 4507.3 | 4511.2 | 4500.4 | 4454.1 | 4364.4 |
| 42.5° | 4686.6 | 4694.5 | 4733.9 | 4796.0 | 4855.1 | 4897.5 | 4927.0 | 4932.9 | 4898.4 | 4856.0 | 4744.8 |
| 45° | 5008.8 | 5029.4 | 5080.7 | 5153.6 | 5239.3 | 5299.4 | 5339.8 | 5356.6 | 5326.0 | 5270.9 | 5141.8 |
| 47.5° | 5263.9 | 5284.7 | 5357.5 | 5444.2 | 5550.6 | 5648.2 | 5715.1 | 5750.6 | 5742.7 | 5701.4 | 5560.5 |
| 50° | 5451.1 | 5470.8 | 5549.6 | 5656.1 | 5780.2 | 5901.4 | 6015.7 | 6100.4 | 6129.9 | 6111.2 | 5982.1 |
| 52.5° | 5472.8 | 5505.3 | 5597.9 | 5740.8 | 5902.3 | 6067.8 | 6230.4 | 6374.3 | 6471.8 | 6486.5 | 6391.0 |
| 55° | 5170.3 | 5202.8 | 5330.9 | 5542.8 | 5783.2 | 6053.1 | 6313.1 | 6555.6 | 6747.7 | 6846.2 | 6796.0 |
| 57.5° | 4457.1 | 4515.2 | 4650.1 | 4898.4 | 5252.1 | 5656.1 | 6070.8 | 6501.4 | 6892.4 | 7153.6 | 7203.8 |
| 60° | 3415.7 | 3484.7 | 3620.6 | 3884.7 | 4278.7 | 4760.5 | 5314.2 | 5950.6 | 6641.3 | 7228.5 | 7579.1 |
| 62.5° | 2191.1 | 2256.1 | 2398.9 | 2628.6 | 2949.7 | 3471.9 | 4065.9 | 4821.6 | 5749.7 | 6676.7 | 7512.1 |
| 65° | 1126.1 | 1161.6 | 1236.4 | 1375.4 | 1625.6 | 2015.7 | 2548.7 | 3302.4 | 4363.5 | 5507.3 | 6715.2 |
| 67.5° | 713.3 | 720.2 | 736.9 | 756.7 | 820.7 | 955.6 | 1203.9 | 1673.9 | 2546.7 | 3739.8 | 5153.6 |
| 70° | 616.7 | 616.7 | 608.9 | 605.9 | 613.8 | 632.5 | 671.0 | 780.3 | 1074.8 | 1775.3 | 2972.4 |
| 72.5° | 564.6 | 558.6 | 544.8 | 534.0 | 532.0 | 532.0 | 539.9 | 556.7 | 604.0 | 723.1 | 1163.5 |
| 75° | 520.2 | 503.4 | 484.7 | 471.9 | 467.0 | 462.1 | 461.0 | 464.0 | 473.9 | 492.6 | 555.7 |
| 77.5° | 466.0 | 444.4 | 422.7 | 409.8 | 404.0 | 397.0 | 391.2 | 384.2 | 379.3 | 385.2 | 412.8 |
| 80° | 401.0 | 376.3 | 359.6 | 351.7 | 345.8 | 335.9 | 323.2 | 311.3 | 300.4 | 298.5 | 315.3 |
| 82.5° | 323.2 | 294.6 | 295.5 | 298.5 | 287.7 | 273.8 | 260.1 | 247.2 | 228.5 | 218.7 | 228.5 |
| 85° | 261.1 | 246.3 | 239.4 | 258.1 | 242.3 | 221.7 | 200.0 | 177.4 | 147.8 | 124.2 | 134.9 |
| 87.5° | 101.5 | 101.5 | 151.7 | 233.5 | 209.8 | 171.4 | 146.8 | 125.1 | 77.8 | 60.0 | 61.1 |
| 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: P191021

CATALOG NUMBER: GAN-AF-03-LED-U-RW-1200

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 | 2312.3 |
| 2.5° | 2316.2 | 2318.2 | 2317.2 | 2316.2 | 2316.2 | 2315.2 | 2316.2 | 2316.2 |
| 5° | 2334.0 | 2338.9 | 2338.9 | 2340.8 | 2340.8 | 2341.8 | 2342.9 | 2341.8 |
| 7.5° | 2360.6 | 2369.5 | 2375.3 | 2382.2 | 2383.2 | 2384.2 | 2386.1 | 2384.2 |
| 10° | 2387.2 | 2404.9 | 2417.6 | 2430.5 | 2436.4 | 2438.4 | 2440.4 | 2440.4 |
| 12.5° | 2420.6 | 2445.3 | 2468.0 | 2490.6 | 2501.4 | 2507.4 | 2507.4 | 2511.2 |
| 15° | 2475.8 | 2500.4 | 2527.1 | 2557.6 | 2576.3 | 2586.1 | 2589.1 | 2589.1 |
| 17.5° | 2553.7 | 2575.3 | 2598.0 | 2627.6 | 2651.2 | 2664.0 | 2666.9 | 2665.9 |
| 20° | 2644.3 | 2665.0 | 2677.8 | 2696.5 | 2717.2 | 2732.0 | 2735.9 | 2735.9 |
| 22.5° | 2747.7 | 2759.5 | 2761.6 | 2767.4 | 2784.2 | 2803.9 | 2812.7 | 2814.8 |
| 25° | 2862.0 | 2865.0 | 2857.1 | 2857.1 | 2867.9 | 2886.7 | 2895.6 | 2896.5 |
| 27.5° | 3009.8 | 2995.0 | 2975.4 | 2968.4 | 2975.4 | 2996.9 | 3007.8 | 3011.8 |
| 30° | 3194.1 | 3158.6 | 3113.2 | 3088.6 | 3084.7 | 3113.2 | 3133.0 | 3135.9 |
| 32.5° | 3404.9 | 3353.6 | 3293.5 | 3243.3 | 3230.5 | 3248.2 | 3271.9 | 3270.9 |
| 35° | 3655.1 | 3594.0 | 3521.1 | 3457.1 | 3427.5 | 3445.3 | 3478.7 | 3482.7 |
| 37.5° | 3943.8 | 3864.0 | 3780.2 | 3699.4 | 3653.2 | 3658.1 | 3693.6 | 3705.3 |
| 40° | 4265.9 | 4162.5 | 4057.0 | 3948.7 | 3882.7 | 3869.9 | 3913.2 | 3920.2 |
| 42.5° | 4610.7 | 4477.8 | 4344.8 | 4210.8 | 4126.1 | 4106.3 | 4156.6 | 4153.6 |
| 45° | 4978.2 | 4808.8 | 4653.1 | 4505.4 | 4404.8 | 4375.3 | 4416.7 | 4416.7 |
| 47.5° | 5373.3 | 5164.5 | 4979.2 | 4811.8 | 4702.4 | 4660.1 | 4699.4 | 4702.4 |
| 50° | 5792.0 | 5570.4 | 5352.6 | 5166.4 | 5035.4 | 4981.2 | 5032.4 | 5040.3 |
| 52.5° | 6208.8 | 5993.0 | 5773.3 | 5560.5 | 5401.9 | 5335.8 | 5394.9 | 5420.6 |
| 55° | 6631.4 | 6419.6 | 6209.7 | 6001.9 | 5813.7 | 5735.9 | 5798.9 | 5831.4 |
| 57.5° | 7077.7 | 6881.7 | 6681.6 | 6471.8 | 6290.5 | 6169.3 | 6236.3 | 6279.7 |
| 60° | 7600.8 | 7433.4 | 7225.5 | 6993.9 | 6810.7 | 6687.5 | 6726.0 | 6764.4 |
| 62.5° | 8014.6 | 8079.7 | 7903.3 | 7635.3 | 7399.8 | 7242.2 | 7279.6 | 7320.0 |
| 65° | 7814.6 | 8481.6 | 8638.3 | 8367.3 | 8041.2 | 7795.9 | 7780.2 | 7800.8 |
| 67.5° | 6532.0 | 7827.4 | 8772.2 | 9030.4 | 8757.5 | 8416.6 | 8353.5 | 8384.1 |
| 70° | 4369.3 | 5983.1 | 7650.1 | 8891.5 | 9221.5 | 9089.5 | 9027.4 | 9046.2 |
| 72.5° | 2098.5 | 3484.7 | 5190.0 | 6840.3 | 7845.2 | 8306.3 | 8454.1 | 8526.0 |
| 75° | 767.5 | 1383.2 | 2501.4 | 3769.4 | 4550.7 | 5267.9 | 5735.9 | 5927.0 |
| 77.5° | 463.1 | 558.6 | 799.0 | 1202.9 | 1362.6 | 1525.1 | 1462.0 | 1493.6 |
| 80° | 342.9 | 387.2 | 438.4 | 492.6 | 510.4 | 510.4 | 490.6 | 474.9 |
| 82.5° | 240.4 | 268.9 | 293.6 | 323.2 | 331.0 | 316.3 | 260.1 | 206.9 |
| 85° | 154.7 | 167.5 | 178.3 | 197.0 | 192.1 | 183.2 | 123.2 | 109.4 |
| 87.5° | 70.9 | 80.8 | 84.7 | 93.6 | 89.6 | 85.7 | 61.1 | 51.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)