

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: P191703

Luminaire Tested: **GAN-AF-05-LED-U-5WQ-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34375 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 320
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

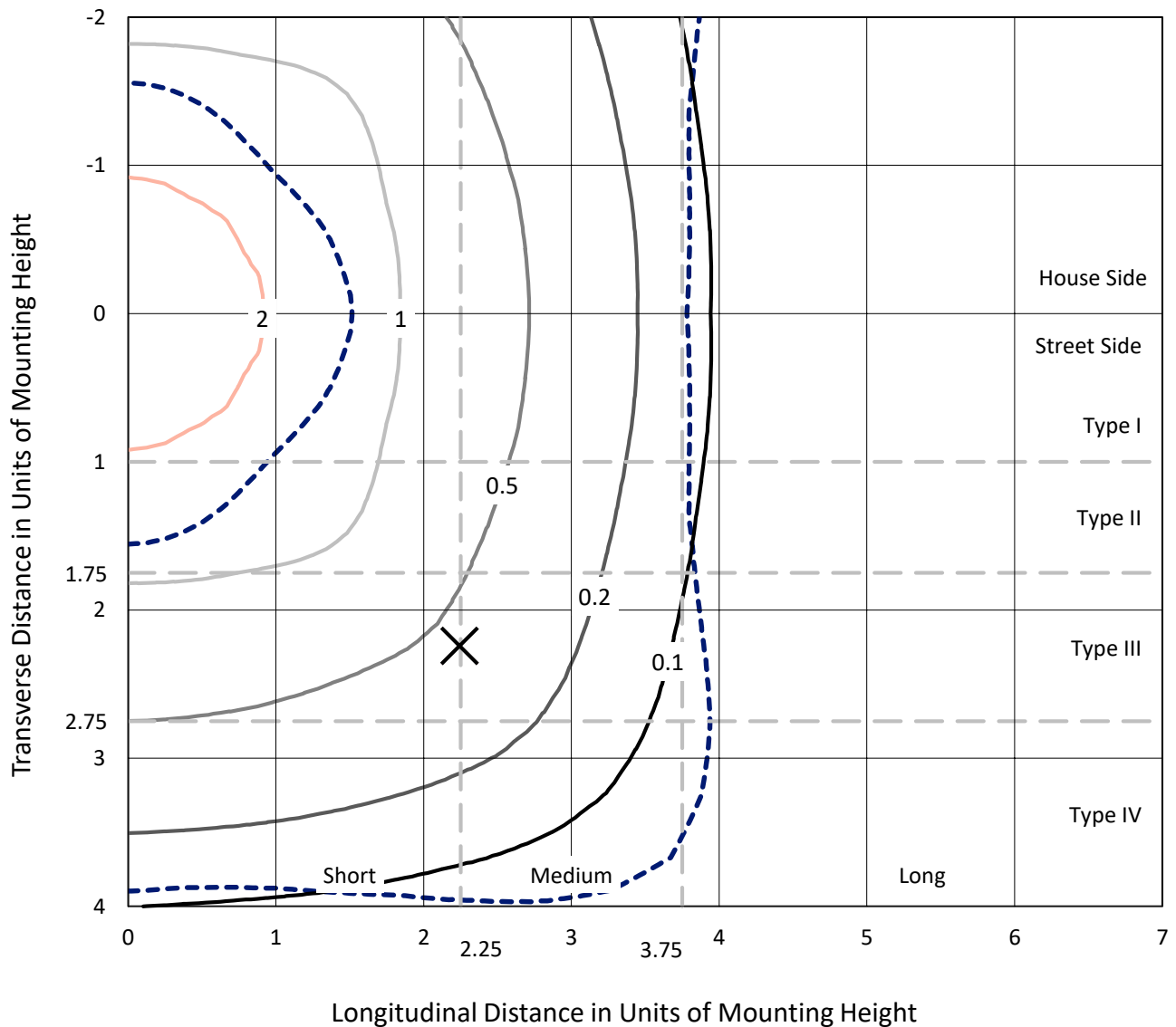


REPORT NUMBER: P191703

CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

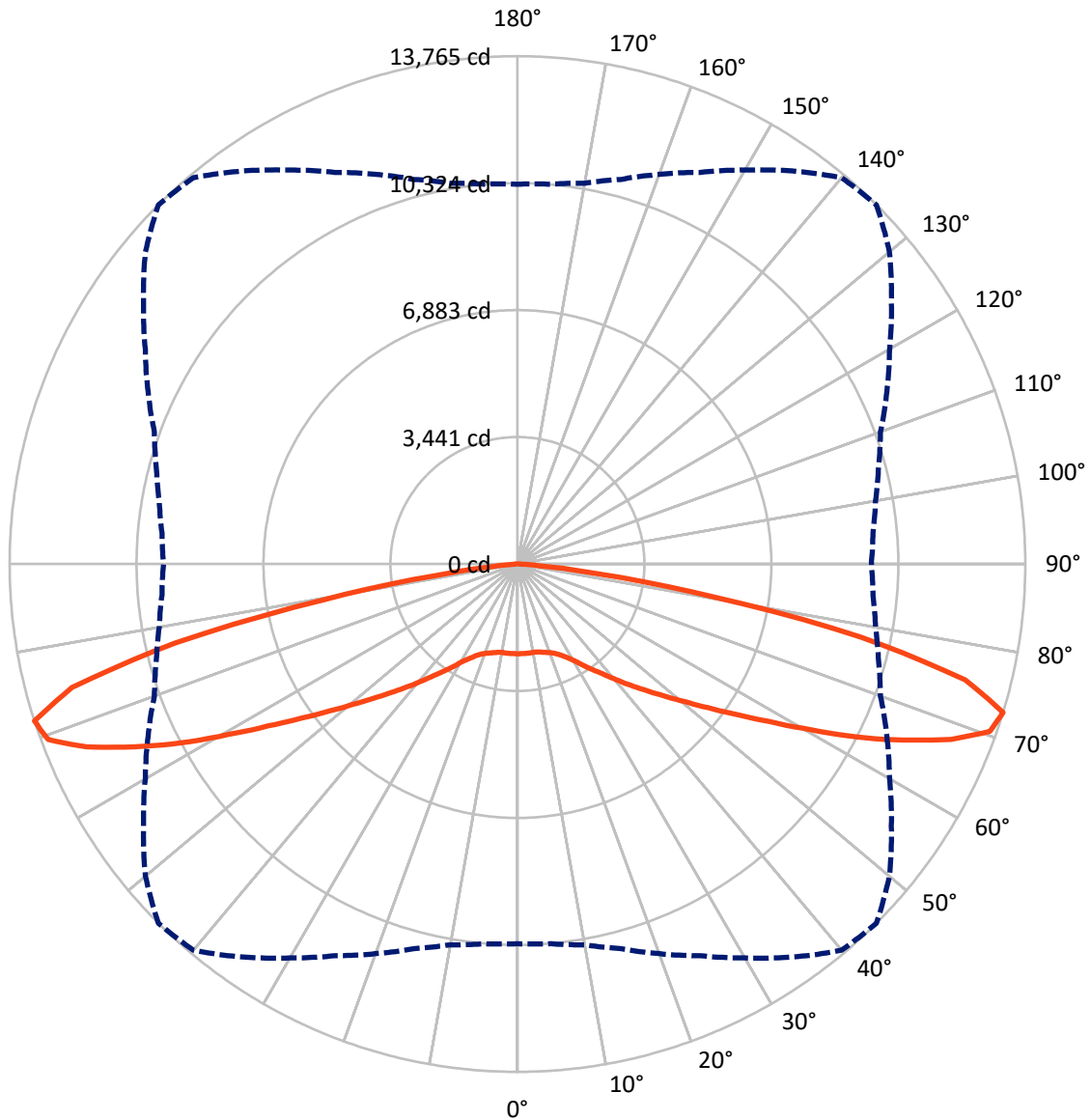


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P191703

CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P191703

CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17187.5 | 0.0 | 17187.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17187.5 | 0.0 | 17187.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34375.0 | 0.0 | 34375.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.4 | 0.7 |
| 10°-20° | 706.0 | 2.1 |
| 20°-30° | 1290.1 | 3.8 |
| 30°-40° | 2224.3 | 6.5 |
| 40°-50° | 3802.5 | 11.1 |
| 50°-60° | 6163.3 | 17.9 |
| 60°-70° | 10224.7 | 29.7 |
| 70°-80° | 9005.6 | 26.2 |
| 80°-90° | 726.1 | 2.1 |
| 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° | 34375.0 | 100.0 |
| 0°-180° | 34375.0 | 100.0 |



REPORT NUMBER: P191703

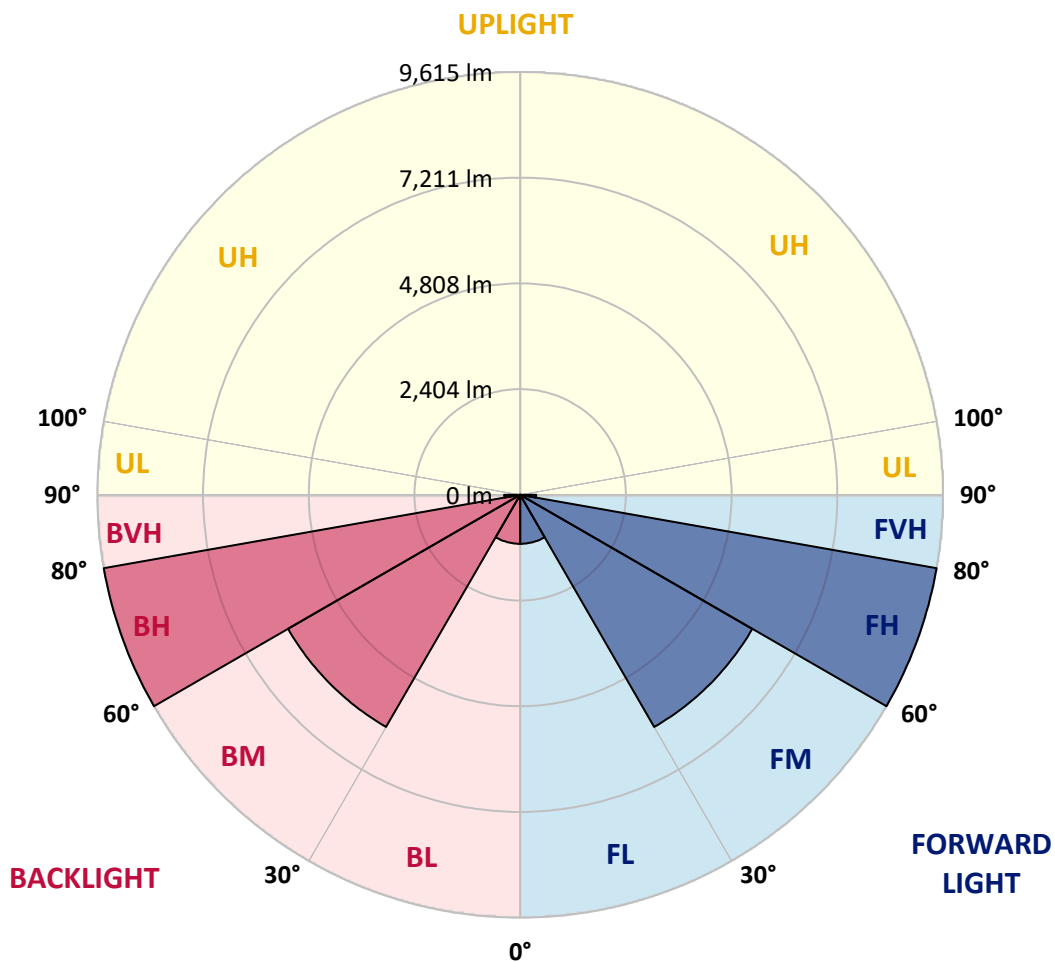
CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1114.2 | 3.2 | | | |
| FM | (30°-60°) | 6095.1 | 17.7 | | | |
| FH | (60°-80°) | 9615.1 | 28.0 | | | G4/12000 |
| FVH | (80°-90°) | 363.0 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1114.2 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 6095.1 | 17.7 | B4/8500 | | |
| BH | (60°-80°) | 9615.1 | 28.0 | B5 | | G4/12000 |
| BVH | (80°-90°) | 363.0 | 1.1 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P191703

CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 |
| 2.5° | 2434.3 | 2435.9 | 2437.4 | 2435.9 | 2435.9 | 2434.3 | 2432.7 | 2434.3 | 2432.7 | 2429.6 | 2431.1 |
| 5° | 2442.2 | 2445.3 | 2445.3 | 2442.2 | 2443.7 | 2442.2 | 2439.0 | 2440.6 | 2437.4 | 2432.7 | 2432.7 |
| 7.5° | 2451.6 | 2453.2 | 2453.2 | 2450.1 | 2451.6 | 2448.5 | 2445.3 | 2443.7 | 2440.6 | 2434.3 | 2429.6 |
| 10° | 2465.8 | 2467.4 | 2465.8 | 2462.7 | 2462.7 | 2457.9 | 2450.1 | 2446.9 | 2440.6 | 2431.1 | 2426.4 |
| 12.5° | 2481.6 | 2483.2 | 2481.6 | 2478.4 | 2476.9 | 2469.0 | 2462.7 | 2457.9 | 2453.2 | 2445.3 | 2437.4 |
| 15° | 2503.7 | 2506.8 | 2503.7 | 2497.3 | 2492.6 | 2486.3 | 2483.2 | 2484.7 | 2486.3 | 2480.0 | 2472.1 |
| 17.5° | 2544.6 | 2546.2 | 2541.5 | 2527.3 | 2521.0 | 2514.7 | 2514.7 | 2517.8 | 2522.6 | 2519.4 | 2511.5 |
| 20° | 2620.3 | 2615.6 | 2604.6 | 2587.2 | 2579.3 | 2568.3 | 2566.7 | 2568.3 | 2568.3 | 2566.7 | 2560.4 |
| 22.5° | 2714.9 | 2711.8 | 2697.6 | 2675.5 | 2664.5 | 2658.2 | 2648.7 | 2640.8 | 2639.2 | 2634.5 | 2628.2 |
| 25° | 2828.4 | 2826.9 | 2809.5 | 2790.6 | 2782.7 | 2774.8 | 2766.9 | 2755.9 | 2746.5 | 2735.4 | 2729.1 |
| 27.5° | 2973.5 | 2967.2 | 2942.0 | 2932.5 | 2921.5 | 2916.7 | 2905.7 | 2893.1 | 2885.2 | 2871.0 | 2863.1 |
| 30° | 3132.7 | 3132.7 | 3112.2 | 3109.1 | 3109.1 | 3098.0 | 3085.4 | 3063.4 | 3049.2 | 3035.0 | 3030.2 |
| 32.5° | 3292.0 | 3293.5 | 3273.0 | 3279.3 | 3284.1 | 3292.0 | 3295.1 | 3287.2 | 3277.8 | 3276.2 | 3266.7 |
| 35° | 3522.1 | 3515.8 | 3495.3 | 3500.1 | 3498.5 | 3496.9 | 3496.9 | 3514.3 | 3517.4 | 3520.6 | 3501.6 |
| 37.5° | 3807.5 | 3807.5 | 3787.0 | 3787.0 | 3777.6 | 3768.1 | 3755.5 | 3766.5 | 3783.9 | 3788.6 | 3776.0 |
| 40° | 4133.9 | 4144.9 | 4119.7 | 4118.1 | 4121.3 | 4091.3 | 4077.1 | 4094.5 | 4105.5 | 4124.4 | 4110.2 |
| 42.5° | 4518.6 | 4510.7 | 4485.5 | 4482.3 | 4465.0 | 4455.5 | 4442.9 | 4457.1 | 4474.4 | 4487.0 | 4491.8 |
| 45° | 4887.5 | 4881.2 | 4852.8 | 4852.8 | 4835.5 | 4827.6 | 4833.9 | 4857.5 | 4865.4 | 4882.8 | 4900.1 |
| 47.5° | 5251.7 | 5243.8 | 5224.9 | 5232.8 | 5234.3 | 5248.5 | 5269.0 | 5291.1 | 5313.2 | 5336.8 | 5344.7 |
| 50° | 5623.8 | 5625.3 | 5604.8 | 5623.8 | 5647.4 | 5686.8 | 5742.0 | 5778.3 | 5824.0 | 5853.9 | 5863.4 |
| 52.5° | 5962.7 | 5969.0 | 5991.1 | 6035.3 | 6082.6 | 6159.8 | 6254.4 | 6342.7 | 6418.4 | 6468.8 | 6465.7 |
| 55° | 6369.5 | 6379.0 | 6432.6 | 6508.2 | 6585.5 | 6702.2 | 6842.5 | 6998.6 | 7124.7 | 7197.2 | 7151.5 |
| 57.5° | 6889.8 | 6910.3 | 6970.2 | 7072.7 | 7187.8 | 7339.1 | 7531.5 | 7766.4 | 7961.9 | 8059.6 | 7985.5 |
| 60° | 7604.0 | 7616.6 | 7689.1 | 7802.6 | 7941.4 | 8129.0 | 8386.0 | 8701.3 | 8977.2 | 9106.5 | 9021.4 |
| 62.5° | 8545.2 | 8568.9 | 8627.2 | 8742.3 | 8884.2 | 9097.0 | 9410.8 | 9804.9 | 10148.6 | 10328.4 | 10136.0 |
| 65° | 9669.3 | 9745.0 | 9793.9 | 9910.6 | 10043.0 | 10268.5 | 10596.4 | 11018.9 | 11387.8 | 11506.1 | 11283.8 |
| 67.5° | 10782.4 | 10848.6 | 10933.8 | 11067.8 | 11201.8 | 11455.6 | 11759.9 | 12169.8 | 12575.0 | 12682.2 | 12337.0 |
| 70° | 11269.6 | 11307.4 | 11439.9 | 11622.8 | 11879.7 | 12179.3 | 12530.9 | 12991.3 | 13492.6 | 13580.9 | 13142.6 |
| 72.5° | 10293.7 | 10331.5 | 10479.7 | 10790.3 | 11238.1 | 11714.2 | 12327.5 | 13003.9 | 13666.0 | 13765.4 | 13161.5 |
| 75° | 7785.3 | 7723.8 | 7943.0 | 8354.5 | 8958.3 | 9622.0 | 10479.7 | 11449.3 | 12406.3 | 12530.9 | 11810.4 |
| 77.5° | 4023.5 | 4015.6 | 4181.2 | 4692.0 | 5412.5 | 6167.7 | 7112.1 | 8207.8 | 9144.3 | 9522.7 | 8936.2 |
| 80° | 1133.6 | 1146.2 | 1225.0 | 1478.9 | 1899.8 | 2445.3 | 3183.2 | 4209.5 | 4975.8 | 5366.8 | 5038.8 |
| 82.5° | 444.6 | 479.3 | 509.2 | 556.5 | 611.7 | 692.1 | 923.9 | 1374.8 | 1844.6 | 2204.1 | 1805.2 |
| 85° | 159.2 | 170.3 | 241.2 | 285.4 | 290.1 | 305.9 | 348.4 | 406.8 | 490.3 | 584.9 | 480.9 |
| 87.5° | 59.9 | 66.2 | 77.3 | 127.7 | 126.1 | 115.1 | 140.3 | 146.6 | 110.4 | 100.9 | 124.6 |
| 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: P191703

CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 | 2434.3 |
| 2.5° | 2428.0 | 2429.6 | 2429.6 | 2431.1 | 2432.7 | 2432.7 | 2435.9 | 2435.9 |
| 5° | 2429.6 | 2429.6 | 2426.4 | 2428.0 | 2426.4 | 2426.4 | 2428.0 | 2428.0 |
| 7.5° | 2426.4 | 2424.8 | 2421.7 | 2420.1 | 2416.9 | 2416.9 | 2416.9 | 2416.9 |
| 10° | 2421.7 | 2420.1 | 2416.9 | 2415.4 | 2413.8 | 2413.8 | 2413.8 | 2413.8 |
| 12.5° | 2434.3 | 2429.6 | 2426.4 | 2424.8 | 2424.8 | 2424.8 | 2424.8 | 2424.8 |
| 15° | 2467.4 | 2456.4 | 2448.5 | 2448.5 | 2450.1 | 2453.2 | 2453.2 | 2456.4 |
| 17.5° | 2508.4 | 2495.8 | 2487.9 | 2481.6 | 2484.7 | 2489.5 | 2492.6 | 2495.8 |
| 20° | 2557.3 | 2551.0 | 2539.9 | 2533.6 | 2533.6 | 2539.9 | 2543.1 | 2544.6 |
| 22.5° | 2625.1 | 2620.3 | 2615.6 | 2607.7 | 2607.7 | 2610.9 | 2617.2 | 2617.2 |
| 25° | 2726.0 | 2722.8 | 2719.7 | 2713.3 | 2711.8 | 2711.8 | 2714.9 | 2718.1 |
| 27.5° | 2852.1 | 2853.7 | 2850.5 | 2848.9 | 2844.2 | 2842.6 | 2847.4 | 2845.8 |
| 30° | 3020.8 | 3028.7 | 3036.5 | 3030.2 | 3022.4 | 3017.6 | 3012.9 | 3006.6 |
| 32.5° | 3249.4 | 3239.9 | 3233.6 | 3222.6 | 3208.4 | 3195.8 | 3186.3 | 3175.3 |
| 35° | 3465.4 | 3449.6 | 3443.3 | 3452.8 | 3451.2 | 3443.3 | 3432.3 | 3422.8 |
| 37.5° | 3730.3 | 3727.1 | 3730.3 | 3747.6 | 3744.4 | 3752.3 | 3730.3 | 3728.7 |
| 40° | 4064.5 | 4067.7 | 4089.7 | 4110.2 | 4121.3 | 4132.3 | 4119.7 | 4107.1 |
| 42.5° | 4452.3 | 4450.8 | 4458.6 | 4487.0 | 4505.9 | 4518.6 | 4491.8 | 4488.6 |
| 45° | 4862.3 | 4851.2 | 4857.5 | 4881.2 | 4900.1 | 4914.3 | 4884.3 | 4884.3 |
| 47.5° | 5313.2 | 5294.3 | 5273.8 | 5300.6 | 5311.6 | 5321.1 | 5297.4 | 5289.5 |
| 50° | 5816.1 | 5776.7 | 5732.5 | 5743.6 | 5743.6 | 5740.4 | 5710.5 | 5708.9 |
| 52.5° | 6393.1 | 6320.6 | 6240.2 | 6210.3 | 6192.9 | 6174.0 | 6122.0 | 6096.7 |
| 55° | 7056.9 | 6948.1 | 6822.0 | 6744.7 | 6703.7 | 6651.7 | 6565.0 | 6541.3 |
| 57.5° | 7832.6 | 7662.3 | 7444.7 | 7350.2 | 7258.7 | 7173.6 | 7077.4 | 7050.6 |
| 60° | 8751.8 | 8501.1 | 8212.6 | 8037.6 | 7938.2 | 7856.2 | 7756.9 | 7752.2 |
| 62.5° | 9776.6 | 9380.8 | 9054.5 | 8896.8 | 8824.3 | 8751.8 | 8657.2 | 8669.8 |
| 65° | 10818.7 | 10405.6 | 10099.8 | 9972.1 | 9904.3 | 9844.3 | 9749.7 | 9763.9 |
| 67.5° | 11846.6 | 11466.7 | 11130.9 | 11000.0 | 10924.3 | 10848.6 | 10763.5 | 10777.7 |
| 70° | 12584.5 | 12113.1 | 11734.7 | 11444.6 | 11263.3 | 11058.3 | 10925.9 | 10892.8 |
| 72.5° | 12373.2 | 11646.4 | 11045.7 | 10470.3 | 10132.9 | 9858.5 | 9672.5 | 9592.1 |
| 75° | 10708.3 | 9715.1 | 8942.5 | 8236.2 | 7838.9 | 7515.7 | 7280.8 | 7134.2 |
| 77.5° | 7952.4 | 6836.2 | 5923.3 | 5109.8 | 4466.5 | 4034.5 | 3730.3 | 3533.2 |
| 80° | 4353.0 | 3310.9 | 2420.1 | 1701.2 | 1250.3 | 1039.0 | 917.6 | 859.3 |
| 82.5° | 1355.9 | 875.0 | 644.8 | 556.5 | 517.1 | 495.1 | 458.8 | 400.5 |
| 85° | 432.0 | 378.4 | 351.6 | 335.8 | 320.1 | 279.1 | 192.3 | 175.0 |
| 87.5° | 167.1 | 171.9 | 170.3 | 160.8 | 164.0 | 118.2 | 94.6 | 83.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)