

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: P192562

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-5MQ-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26762 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 258  
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

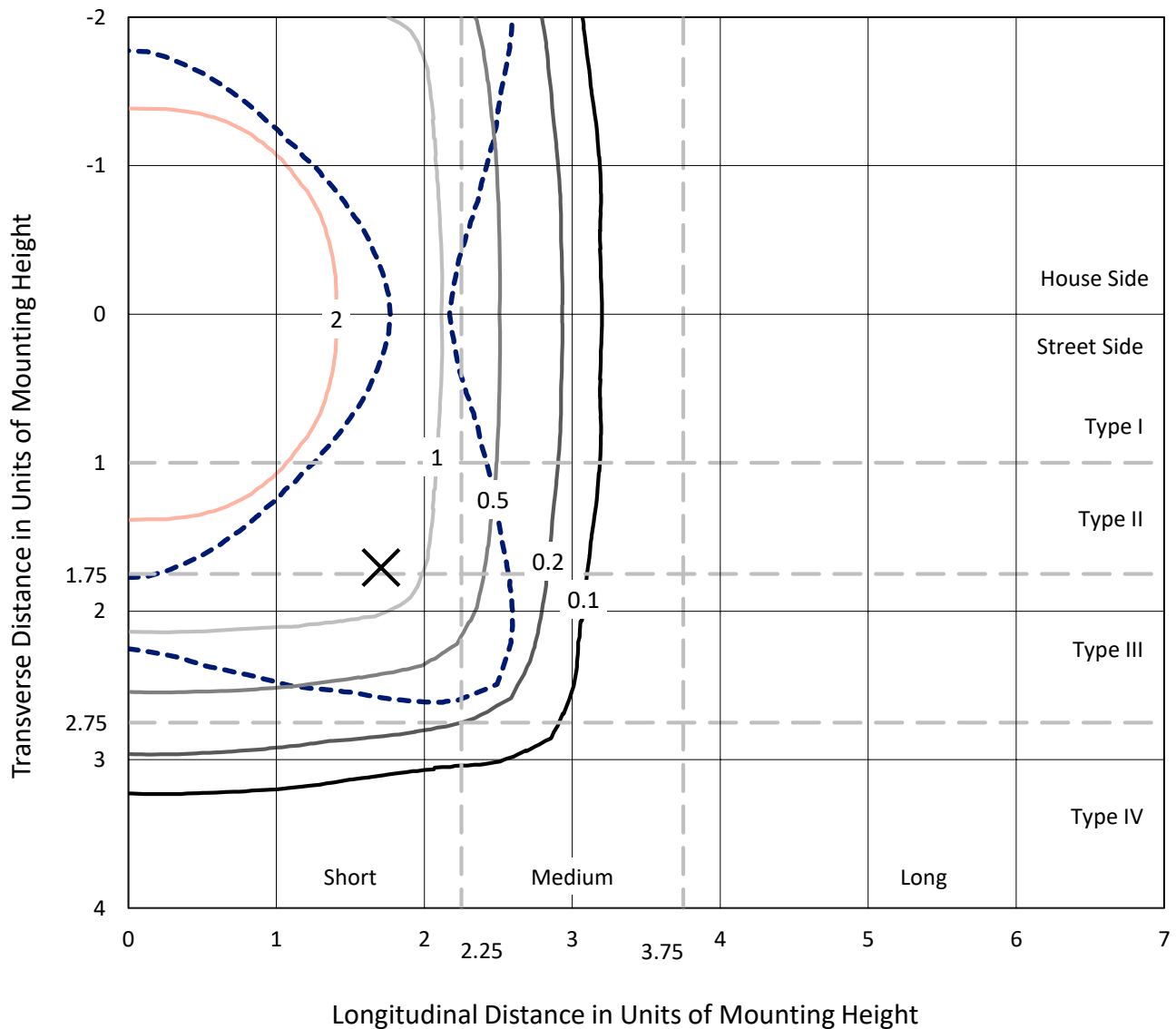


REPORT NUMBER: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

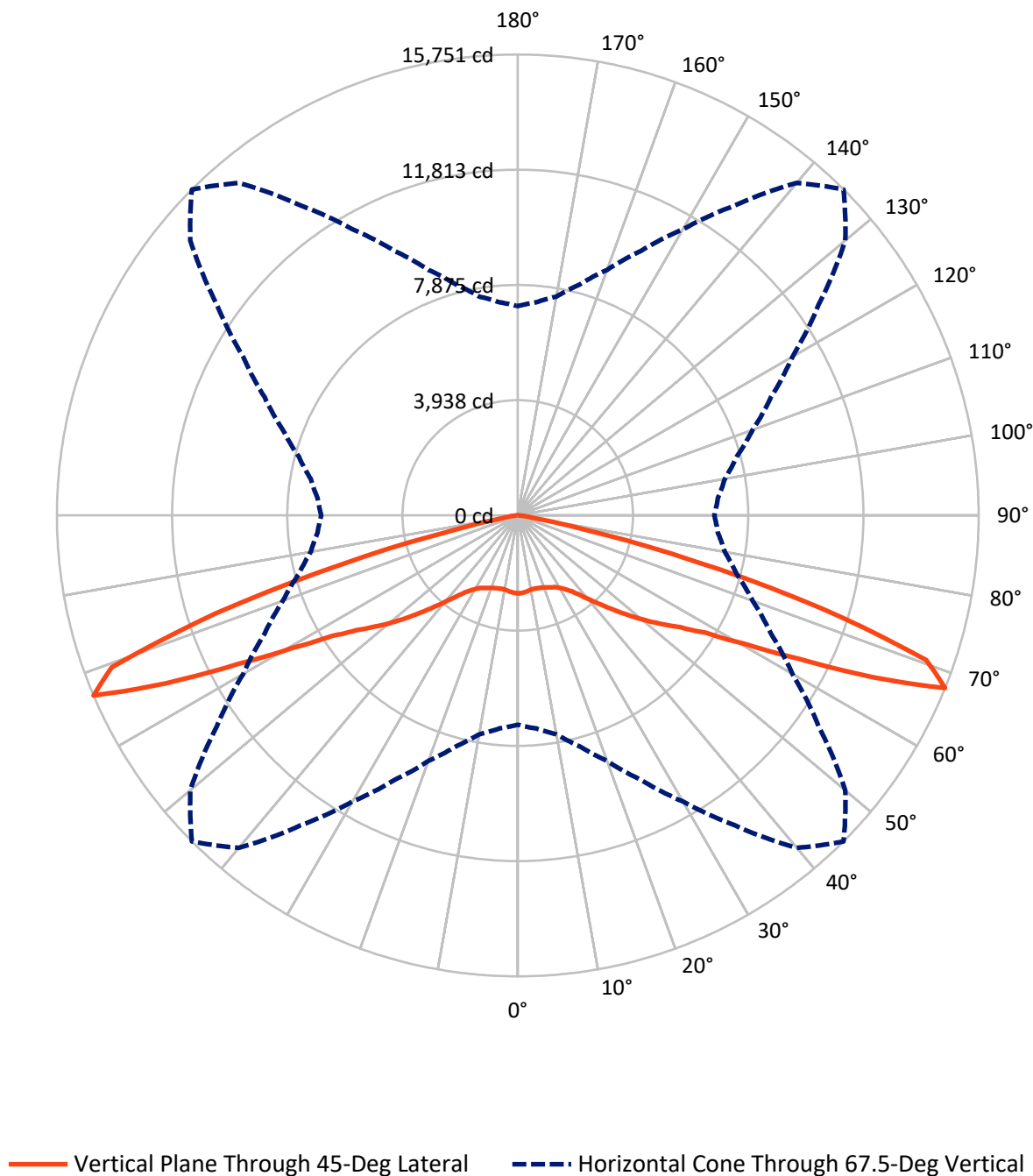


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
Type V - Short - Full Cutoff

REPORT NUMBER: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

## Luminous Intensity Polar Plot



REPORT NUMBER: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13381.0  | 0.0    | 13381.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13381.0  | 0.0    | 13381.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26762.0  | 0.0    | 26762.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 249.6   | 0.9       |
| 10°-20°   | 724.3   | 2.7       |
| 20°-30°   | 1231.3  | 4.6       |
| 30°-40°   | 2012.9  | 7.5       |
| 40°-50°   | 3593.4  | 13.4      |
| 50°-60°   | 6058.5  | 22.6      |
| 60°-70°   | 9401.9  | 35.1      |
| 70°-80°   | 3303.4  | 12.3      |
| 80°-90°   | 186.7   | 0.7       |
| 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°    | 26762.0 | 100.0     |
| 0°-180°   | 26762.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192562

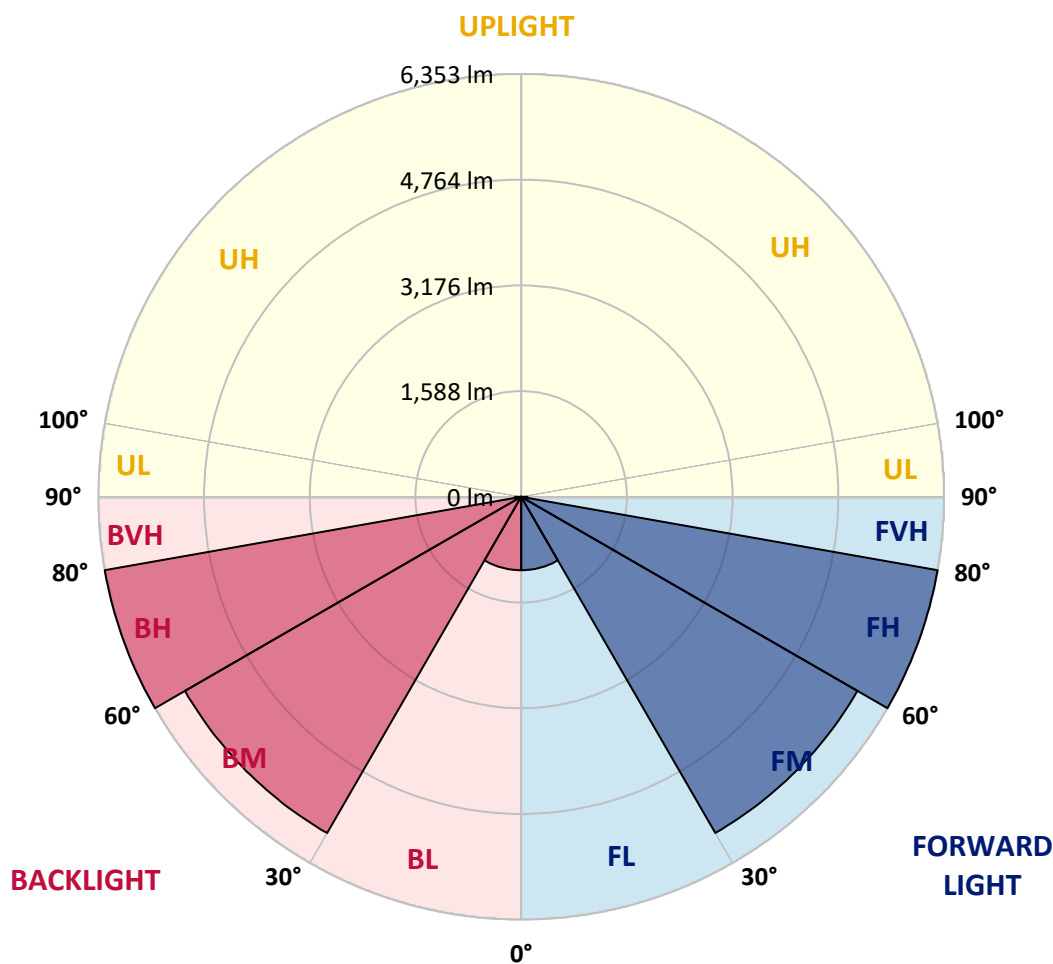
CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1102.6 | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 5832.4 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 6352.6 | 23.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 93.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1102.6 | 4.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5832.4 | 21.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 6352.6 | 23.7      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 93.3   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2666.9 | 2666.9 | 2666.9 | 2666.9 | 2666.9 | 2666.9  | 2666.9  | 2666.9  | 2666.9  | 2666.9  | 2666.9  |
| 2.5°  | 2657.0 | 2659.6 | 2659.6 | 2659.6 | 2658.3 | 2658.3  | 2655.9  | 2658.3  | 2657.0  | 2653.4  | 2654.7  |
| 5°    | 2634.9 | 2637.4 | 2637.4 | 2636.2 | 2639.8 | 2638.6  | 2634.9  | 2637.4  | 2636.2  | 2633.7  | 2634.9  |
| 7.5°  | 2603.0 | 2606.6 | 2606.6 | 2605.4 | 2609.1 | 2607.9  | 2605.4  | 2606.6  | 2606.6  | 2603.0  | 2603.0  |
| 10°   | 2567.3 | 2569.7 | 2569.7 | 2568.4 | 2574.5 | 2574.5  | 2573.4  | 2577.1  | 2578.3  | 2574.5  | 2572.2  |
| 12.5° | 2534.0 | 2537.8 | 2537.8 | 2542.7 | 2548.8 | 2551.2  | 2557.4  | 2562.3  | 2567.3  | 2566.1  | 2561.1  |
| 15°   | 2514.4 | 2516.8 | 2521.7 | 2527.8 | 2537.8 | 2546.3  | 2556.2  | 2567.3  | 2577.1  | 2579.6  | 2572.2  |
| 17.5° | 2502.0 | 2505.8 | 2513.1 | 2521.7 | 2535.3 | 2550.0  | 2564.8  | 2579.6  | 2593.0  | 2598.0  | 2589.5  |
| 20°   | 2498.3 | 2500.8 | 2508.1 | 2522.9 | 2541.4 | 2563.5  | 2584.5  | 2601.7  | 2620.1  | 2626.4  | 2620.1  |
| 22.5° | 2505.8 | 2510.7 | 2519.3 | 2536.5 | 2561.1 | 2589.5  | 2614.0  | 2637.4  | 2660.8  | 2671.8  | 2663.3  |
| 25°   | 2538.9 | 2543.9 | 2554.9 | 2577.1 | 2604.2 | 2633.7  | 2662.0  | 2689.1  | 2710.0  | 2721.1  | 2715.0  |
| 27.5° | 2600.5 | 2606.6 | 2620.1 | 2642.3 | 2671.8 | 2703.8  | 2734.6  | 2756.8  | 2774.0  | 2777.7  | 2770.3  |
| 30°   | 2692.8 | 2706.4 | 2722.3 | 2746.9 | 2781.4 | 2808.5  | 2839.2  | 2859.0  | 2879.8  | 2879.8  | 2873.7  |
| 32.5° | 2836.8 | 2850.3 | 2867.5 | 2890.9 | 2918.0 | 2947.6  | 2974.6  | 2991.8  | 3014.0  | 3015.2  | 3000.5  |
| 35°   | 3052.1 | 3058.2 | 3073.0 | 3087.8 | 3112.5 | 3138.3  | 3161.6  | 3172.8  | 3191.3  | 3192.4  | 3178.9  |
| 37.5° | 3336.4 | 3337.7 | 3347.4 | 3352.4 | 3374.6 | 3402.9  | 3425.1  | 3432.5  | 3449.7  | 3447.2  | 3433.7  |
| 40°   | 3667.5 | 3673.7 | 3677.3 | 3684.8 | 3708.2 | 3735.2  | 3758.6  | 3762.3  | 3780.7  | 3777.1  | 3759.8  |
| 42.5° | 4050.2 | 4052.8 | 4073.6 | 4084.7 | 4106.8 | 4120.3  | 4150.0  | 4153.6  | 4175.8  | 4165.9  | 4146.3  |
| 45°   | 4479.7 | 4501.9 | 4521.5 | 4543.8 | 4567.1 | 4583.2  | 4606.6  | 4601.6  | 4616.4  | 4601.6  | 4590.5  |
| 47.5° | 4931.4 | 4947.5 | 4991.7 | 5026.3 | 5064.3 | 5078.0  | 5111.1  | 5096.4  | 5111.1  | 5090.2  | 5086.6  |
| 50°   | 5428.6 | 5457.0 | 5495.0 | 5534.5 | 5575.1 | 5597.3  | 5640.3  | 5621.8  | 5641.6  | 5621.8  | 5610.8  |
| 52.5° | 5918.5 | 5925.9 | 6009.6 | 6067.3 | 6124.0 | 6149.8  | 6175.7  | 6167.0  | 6168.3  | 6167.0  | 6156.0  |
| 55°   | 6383.7 | 6401.0 | 6484.6 | 6563.3 | 6661.9 | 6734.4  | 6778.8  | 6773.8  | 6762.7  | 6751.6  | 6733.2  |
| 57.5° | 6907.9 | 6925.2 | 7021.2 | 7118.5 | 7230.4 | 7333.8  | 7423.6  | 7516.0  | 7551.7  | 7561.5  | 7520.9  |
| 60°   | 7616.9 | 7615.6 | 7743.6 | 7861.7 | 8021.7 | 8175.6  | 8372.5  | 8573.1  | 8803.2  | 8910.3  | 8768.8  |
| 62.5° | 8338.0 | 8367.6 | 8552.2 | 8761.4 | 9091.3 | 9412.4  | 9775.5  | 10132.3 | 10496.7 | 10793.2 | 10478.3 |
| 65°   | 8252.0 | 8365.1 | 8639.5 | 9113.5 | 9722.6 | 10446.3 | 11229.0 | 12057.2 | 12805.5 | 13319.9 | 12742.7 |
| 67.5° | 7151.7 | 7312.8 | 7592.2 | 8168.2 | 8930.0 | 9973.6  | 11288.0 | 12926.1 | 14830.0 | 15750.6 | 14609.7 |
| 70°   | 5183.7 | 5365.8 | 5658.7 | 6221.2 | 6975.6 | 7967.6  | 9395.2  | 11361.9 | 13882.4 | 14810.3 | 13553.8 |
| 72.5° | 2579.6 | 2678.1 | 2859.0 | 3217.0 | 3788.1 | 4593.0  | 5887.7  | 7778.0  | 10008.1 | 10859.8 | 9711.5  |
| 75°   | 876.3  | 921.8  | 952.5  | 1069.5 | 1250.4 | 1566.7  | 2210.4  | 3400.4  | 5187.4  | 6218.7  | 5113.6  |
| 77.5° | 505.9  | 507.1  | 527.9  | 548.9  | 579.6  | 614.1   | 700.3   | 919.3   | 1590.0  | 2258.4  | 1645.5  |
| 80°   | 327.3  | 326.1  | 343.4  | 359.4  | 380.3  | 397.4   | 402.4   | 425.8   | 491.0   | 582.2   | 520.6   |
| 82.5° | 169.8  | 190.7  | 228.9  | 249.8  | 289.2  | 296.6   | 286.8   | 278.2   | 294.1   | 305.2   | 312.6   |
| 85°   | 93.5   | 81.2   | 121.9  | 157.6  | 174.9  | 177.2   | 177.2   | 167.3   | 173.5   | 169.8   | 184.6   |
| 87.5° | 43.0   | 39.4   | 48.0   | 77.6   | 82.5   | 70.2    | 73.9    | 65.2    | 46.8    | 45.6    | 51.7    |
| 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: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 2666.9  | 2666.9  | 2666.9  | 2666.9 | 2666.9 | 2666.9 | 2666.9 | 2666.9 |
| 2.5°  | 2654.7  | 2655.9  | 2655.9  | 2659.6 | 2660.8 | 2663.3 | 2665.7 | 2666.9 |
| 5°    | 2633.7  | 2637.4  | 2634.9  | 2638.6 | 2638.6 | 2641.2 | 2641.2 | 2642.3 |
| 7.5°  | 2603.0  | 2606.6  | 2606.6  | 2606.6 | 2605.4 | 2609.1 | 2609.1 | 2609.1 |
| 10°   | 2571.0  | 2573.4  | 2572.2  | 2569.7 | 2567.3 | 2571.0 | 2569.7 | 2568.4 |
| 12.5° | 2561.1  | 2554.9  | 2550.0  | 2547.6 | 2542.7 | 2543.9 | 2540.2 | 2540.2 |
| 15°   | 2567.3  | 2556.2  | 2547.6  | 2543.9 | 2538.9 | 2536.5 | 2534.0 | 2535.3 |
| 17.5° | 2583.2  | 2569.7  | 2558.7  | 2552.6 | 2546.3 | 2542.7 | 2537.8 | 2538.9 |
| 20°   | 2611.6  | 2595.6  | 2579.6  | 2567.3 | 2556.2 | 2550.0 | 2546.3 | 2545.0 |
| 22.5° | 2653.4  | 2630.0  | 2606.6  | 2588.2 | 2573.4 | 2564.8 | 2561.1 | 2558.7 |
| 25°   | 2701.4  | 2675.5  | 2648.5  | 2627.5 | 2612.8 | 2601.7 | 2594.4 | 2594.4 |
| 27.5° | 2761.7  | 2740.8  | 2716.1  | 2691.6 | 2678.1 | 2666.9 | 2662.0 | 2659.6 |
| 30°   | 2862.6  | 2842.9  | 2823.3  | 2799.9 | 2782.7 | 2771.6 | 2762.9 | 2755.5 |
| 32.5° | 2991.8  | 2975.9  | 2959.9  | 2942.6 | 2926.6 | 2911.9 | 2898.3 | 2892.2 |
| 35°   | 3174.0  | 3161.6  | 3150.6  | 3131.0 | 3124.9 | 3116.2 | 3108.8 | 3102.6 |
| 37.5° | 3425.1  | 3420.2  | 3420.2  | 3399.2 | 3394.2 | 3390.7 | 3383.2 | 3384.5 |
| 40°   | 3754.9  | 3759.8  | 3753.7  | 3746.3 | 3742.5 | 3732.8 | 3732.8 | 3741.4 |
| 42.5° | 4145.0  | 4148.7  | 4162.2  | 4150.0 | 4163.5 | 4151.2 | 4143.7 | 4150.0 |
| 45°   | 4597.9  | 4611.5  | 4638.5  | 4626.2 | 4634.9 | 4613.9 | 4588.2 | 4589.3 |
| 47.5° | 5106.2  | 5118.5  | 5129.6  | 5121.0 | 5122.2 | 5087.7 | 5053.2 | 5044.7 |
| 50°   | 5634.2  | 5639.1  | 5645.2  | 5633.0 | 5635.4 | 5597.3 | 5557.9 | 5559.1 |
| 52.5° | 6156.0  | 6179.3  | 6204.0  | 6170.8 | 6163.5 | 6120.2 | 6064.9 | 6042.8 |
| 55°   | 6752.9  | 6786.1  | 6757.8  | 6700.0 | 6642.1 | 6584.3 | 6511.7 | 6499.4 |
| 57.5° | 7488.8  | 7432.3  | 7343.7  | 7234.0 | 7154.1 | 7072.9 | 6999.0 | 6968.2 |
| 60°   | 8512.8  | 8299.9  | 8140.0  | 7977.4 | 7875.3 | 7775.7 | 7678.4 | 7663.7 |
| 62.5° | 9960.1  | 9592.1  | 9273.4  | 8937.4 | 8662.9 | 8448.8 | 8277.7 | 8229.7 |
| 65°   | 11774.3 | 10904.1 | 10149.6 | 9445.7 | 8834.0 | 8372.5 | 8082.0 | 7954.1 |
| 67.5° | 12554.4 | 10836.4 | 9542.9  | 8543.5 | 7743.6 | 7184.9 | 6871.0 | 6714.7 |
| 70°   | 11032.0 | 8986.6  | 7580.0  | 6579.4 | 5850.9 | 5255.2 | 4970.9 | 4803.5 |
| 72.5° | 7589.8  | 5716.7  | 4520.4  | 3689.6 | 3107.6 | 2609.1 | 2412.2 | 2397.3 |
| 75°   | 3407.8  | 2257.1  | 1555.7  | 1198.7 | 1009.2 | 877.5  | 836.9  | 806.2  |
| 77.5° | 953.9   | 705.2   | 628.9   | 588.3  | 548.9  | 503.3  | 486.1  | 489.8  |
| 80°   | 464.1   | 438.1   | 420.8   | 395.1  | 359.4  | 321.2  | 304.0  | 311.4  |
| 82.5° | 307.7   | 304.0   | 315.1   | 296.6  | 245.0  | 208.0  | 174.9  | 159.9  |
| 85°   | 187.1   | 189.6   | 193.2   | 194.5  | 164.9  | 115.7  | 78.7   | 88.6   |
| 87.5° | 73.9    | 84.9    | 92.4    | 96.0   | 89.8   | 55.4   | 44.4   | 45.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)