

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: P192601

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19888.4 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

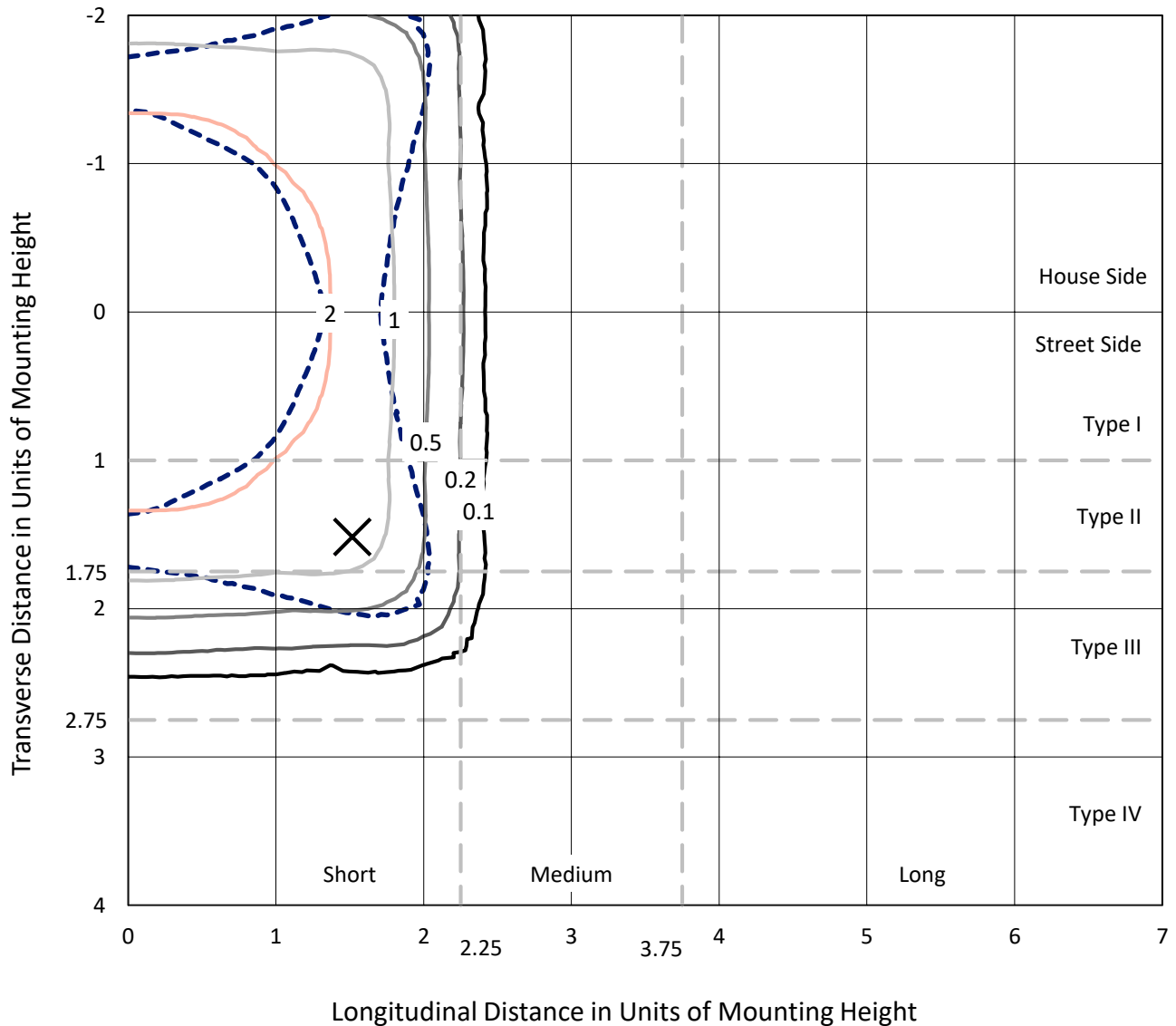
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

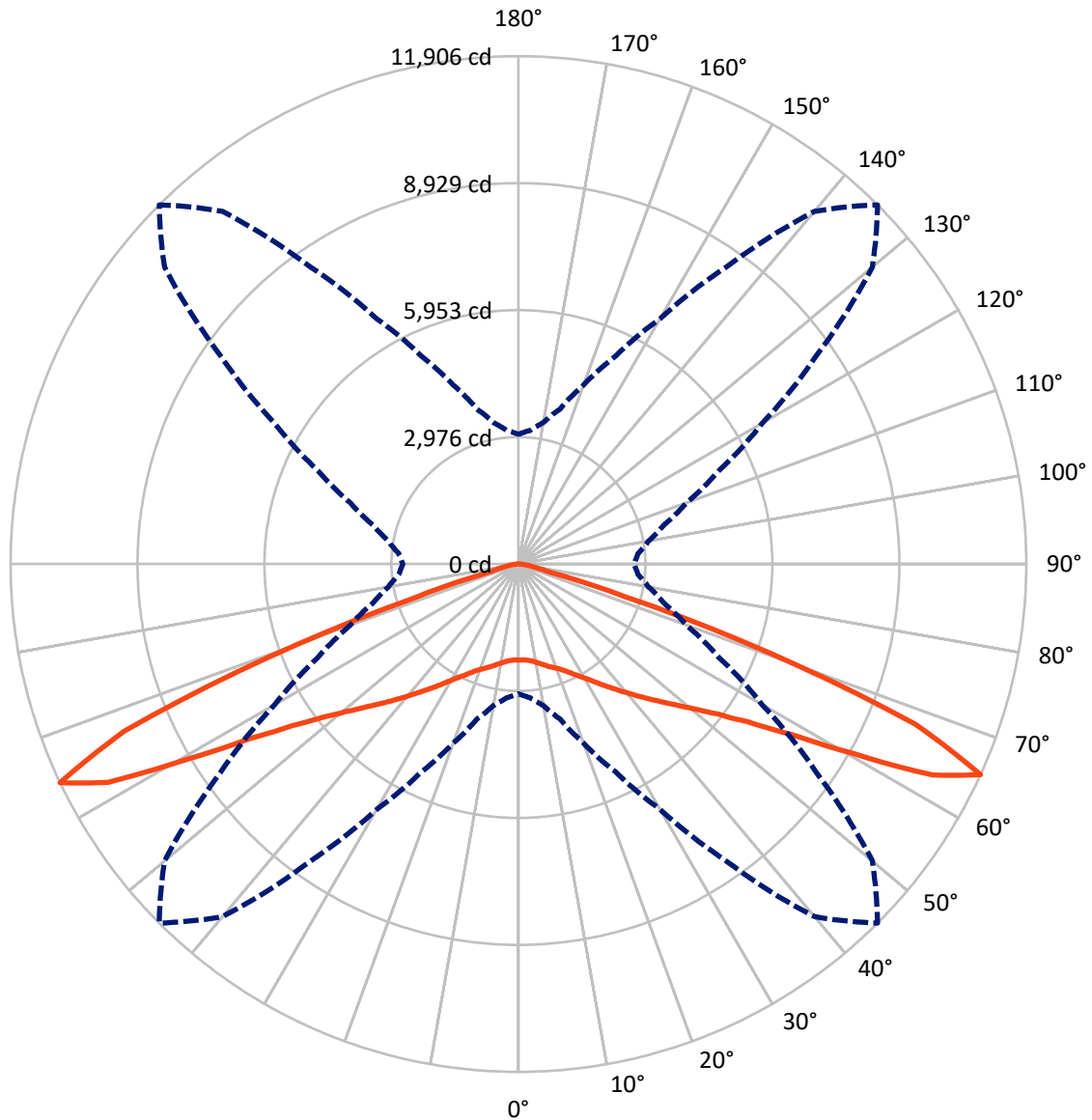


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9944.2 | 0.0 | 9944.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9944.2 | 0.0 | 9944.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19888.4 | 0.0 | 19888.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 219.3 | 1.1 |
| 10°-20° | 703.5 | 3.5 |
| 20°-30° | 1315.3 | 6.6 |
| 30°-40° | 2224.6 | 11.2 |
| 40°-50° | 3637.5 | 18.3 |
| 50°-60° | 5784.2 | 29.1 |
| 60°-70° | 5228.5 | 26.3 |
| 70°-80° | 661.7 | 3.3 |
| 80°-90° | 113.8 | 0.6 |
| 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° | 19888.4 | 100.0 |
| 0°-180° | 19888.4 | 100.0 |



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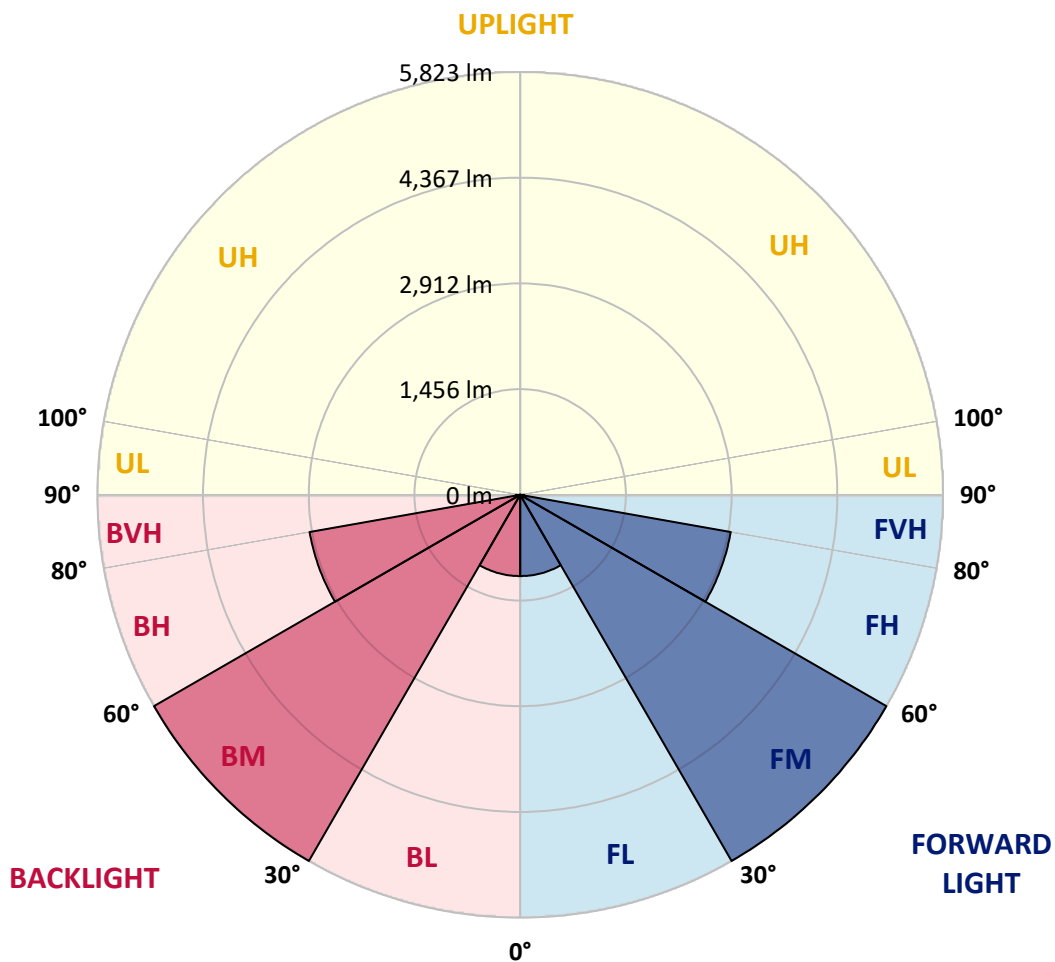
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1119.1 | 5.6 | | | |
| FM | (30°-60°) | 5823.1 | 29.3 | | | |
| FH | (60°-80°) | 2945.1 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 56.9 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1119.1 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 5823.1 | 29.3 | B4/8500 | | |
| BH | (60°-80°) | 2945.1 | 14.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 56.9 | 0.3 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 |
| 2.5° | 2252.3 | 2254.1 | 2255.9 | 2254.1 | 2255.9 | 2253.2 | 2251.3 | 2254.1 | 2251.3 | 2248.5 | 2250.4 |
| 5° | 2271.8 | 2272.7 | 2272.7 | 2270.0 | 2272.7 | 2270.9 | 2268.1 | 2271.8 | 2269.0 | 2266.2 | 2268.1 |
| 7.5° | 2304.4 | 2308.1 | 2305.4 | 2302.5 | 2304.4 | 2302.5 | 2300.7 | 2301.6 | 2300.7 | 2297.9 | 2298.9 |
| 10° | 2348.2 | 2351.0 | 2349.1 | 2348.2 | 2350.0 | 2349.1 | 2347.2 | 2346.4 | 2347.2 | 2344.4 | 2344.4 |
| 12.5° | 2401.3 | 2400.3 | 2399.5 | 2400.3 | 2403.1 | 2403.1 | 2402.2 | 2403.1 | 2405.1 | 2405.9 | 2404.0 |
| 15° | 2453.4 | 2455.3 | 2455.3 | 2455.3 | 2460.8 | 2465.6 | 2468.3 | 2470.3 | 2473.9 | 2474.8 | 2471.1 |
| 17.5° | 2518.7 | 2518.7 | 2517.8 | 2518.7 | 2524.2 | 2531.6 | 2534.5 | 2538.2 | 2541.9 | 2544.7 | 2540.1 |
| 20° | 2591.3 | 2593.2 | 2593.2 | 2595.0 | 2602.4 | 2610.9 | 2610.9 | 2612.7 | 2610.9 | 2612.7 | 2609.9 |
| 22.5° | 2679.8 | 2685.4 | 2685.4 | 2686.3 | 2693.8 | 2704.0 | 2701.2 | 2704.0 | 2699.4 | 2703.1 | 2699.4 |
| 25° | 2795.3 | 2803.7 | 2801.9 | 2801.9 | 2807.4 | 2814.0 | 2814.8 | 2820.4 | 2819.6 | 2824.2 | 2821.4 |
| 27.5° | 2925.8 | 2938.7 | 2942.5 | 2941.5 | 2945.3 | 2951.7 | 2953.6 | 2960.2 | 2956.4 | 2960.2 | 2958.3 |
| 30° | 3082.2 | 3087.7 | 3095.2 | 3098.0 | 3102.6 | 3109.2 | 3109.2 | 3110.2 | 3105.4 | 3111.0 | 3113.9 |
| 32.5° | 3244.2 | 3254.5 | 3261.9 | 3278.8 | 3287.1 | 3291.8 | 3290.8 | 3292.6 | 3288.0 | 3295.5 | 3301.0 |
| 35° | 3458.5 | 3465.9 | 3478.0 | 3491.1 | 3502.3 | 3501.3 | 3498.6 | 3499.5 | 3499.5 | 3506.0 | 3511.6 |
| 37.5° | 3716.5 | 3718.3 | 3734.2 | 3752.8 | 3758.4 | 3752.8 | 3736.0 | 3732.3 | 3724.0 | 3732.3 | 3741.7 |
| 40° | 3989.4 | 3995.9 | 4027.7 | 4039.8 | 4042.5 | 4032.2 | 4008.0 | 3994.1 | 3975.4 | 3985.7 | 3998.8 |
| 42.5° | 4275.4 | 4288.4 | 4317.3 | 4338.6 | 4348.0 | 4341.5 | 4308.0 | 4286.6 | 4262.3 | 4267.8 | 4281.0 |
| 45° | 4592.0 | 4607.9 | 4648.9 | 4669.4 | 4687.1 | 4676.9 | 4644.2 | 4611.7 | 4573.5 | 4576.3 | 4596.7 |
| 47.5° | 4946.0 | 4961.9 | 5014.9 | 5049.4 | 5058.7 | 5056.8 | 5020.6 | 4975.7 | 4923.7 | 4921.8 | 4939.5 |
| 50° | 5342.8 | 5358.6 | 5424.8 | 5477.8 | 5504.9 | 5502.1 | 5459.2 | 5395.9 | 5332.6 | 5333.5 | 5355.9 |
| 52.5° | 5730.3 | 5749.9 | 5818.8 | 5910.1 | 5963.2 | 6001.4 | 5975.3 | 5915.7 | 5838.4 | 5840.2 | 5860.6 |
| 55° | 6093.6 | 6126.1 | 6205.4 | 6329.2 | 6427.9 | 6535.2 | 6565.8 | 6564.0 | 6517.5 | 6530.4 | 6550.8 |
| 57.5° | 6269.7 | 6318.0 | 6440.1 | 6635.7 | 6836.9 | 7054.9 | 7239.3 | 7377.0 | 7435.7 | 7524.2 | 7503.8 |
| 60° | 5936.2 | 6013.4 | 6193.3 | 6481.0 | 6878.8 | 7333.4 | 7820.4 | 8296.5 | 8702.6 | 9009.0 | 8832.9 |
| 62.5° | 4860.3 | 4960.9 | 5178.9 | 5547.7 | 6149.4 | 6876.9 | 7809.3 | 8934.4 | 10160.2 | 10899.8 | 10371.8 |
| 65° | 3041.2 | 3145.5 | 3367.2 | 3762.2 | 4466.3 | 5370.7 | 6635.7 | 8500.5 | 10790.9 | 11905.9 | 10831.0 |
| 67.5° | 1185.8 | 1242.6 | 1362.7 | 1615.2 | 2144.2 | 2949.0 | 4218.5 | 6334.9 | 9074.2 | 10051.3 | 8905.6 |
| 70° | 594.3 | 599.9 | 622.2 | 668.7 | 782.4 | 1016.2 | 1546.2 | 2936.9 | 5204.0 | 6285.4 | 5016.8 |
| 72.5° | 429.4 | 430.4 | 441.5 | 461.9 | 498.3 | 550.4 | 651.0 | 898.8 | 1692.4 | 2586.6 | 1586.2 |
| 75° | 328.8 | 332.4 | 339.0 | 350.1 | 369.8 | 395.8 | 432.2 | 517.9 | 641.8 | 744.3 | 625.9 |
| 77.5° | 253.4 | 260.8 | 265.5 | 275.7 | 287.8 | 305.5 | 315.8 | 348.3 | 405.2 | 426.6 | 420.1 |
| 80° | 192.9 | 199.3 | 209.6 | 218.0 | 226.3 | 234.7 | 231.0 | 246.0 | 275.7 | 293.4 | 284.1 |
| 82.5° | 122.9 | 130.4 | 160.2 | 167.7 | 171.4 | 177.0 | 170.5 | 171.4 | 184.4 | 195.6 | 184.4 |
| 85° | 79.2 | 83.8 | 101.5 | 110.8 | 111.8 | 115.5 | 112.7 | 106.2 | 106.2 | 96.9 | 108.9 |
| 87.5° | 36.3 | 37.2 | 45.7 | 54.0 | 55.9 | 50.3 | 49.3 | 47.5 | 38.2 | 36.3 | 39.2 |
| 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-03-LED-U-5NQ-7030-1200

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 | 2250.4 |
| 2.5° | 2249.4 | 2251.3 | 2252.3 | 2255.0 | 2255.9 | 2255.9 | 2256.9 | 2258.8 |
| 5° | 2267.1 | 2270.0 | 2270.9 | 2274.6 | 2275.6 | 2274.6 | 2276.4 | 2277.4 |
| 7.5° | 2298.9 | 2303.5 | 2305.4 | 2309.0 | 2306.3 | 2310.0 | 2311.0 | 2311.0 |
| 10° | 2345.4 | 2350.0 | 2351.0 | 2354.7 | 2352.9 | 2354.7 | 2354.7 | 2352.9 |
| 12.5° | 2406.9 | 2407.8 | 2405.1 | 2407.8 | 2404.0 | 2405.9 | 2403.1 | 2401.3 |
| 15° | 2474.8 | 2472.1 | 2465.6 | 2465.6 | 2460.0 | 2460.8 | 2460.0 | 2459.0 |
| 17.5° | 2541.1 | 2535.4 | 2530.8 | 2529.0 | 2524.2 | 2523.4 | 2520.5 | 2520.5 |
| 20° | 2613.7 | 2610.9 | 2608.0 | 2604.3 | 2599.8 | 2595.0 | 2594.2 | 2596.0 |
| 22.5° | 2701.2 | 2700.3 | 2700.3 | 2698.3 | 2691.9 | 2687.2 | 2684.5 | 2684.5 |
| 25° | 2818.6 | 2810.1 | 2810.1 | 2809.3 | 2806.5 | 2803.7 | 2798.1 | 2800.9 |
| 27.5° | 2950.9 | 2946.1 | 2949.9 | 2949.0 | 2946.1 | 2946.1 | 2942.5 | 2942.5 |
| 30° | 3113.9 | 3112.0 | 3117.6 | 3112.9 | 3103.6 | 3102.6 | 3098.9 | 3094.3 |
| 32.5° | 3302.1 | 3300.1 | 3308.5 | 3302.9 | 3288.0 | 3279.6 | 3272.2 | 3268.5 |
| 35° | 3511.6 | 3512.4 | 3522.7 | 3519.0 | 3502.3 | 3496.7 | 3483.6 | 3481.8 |
| 37.5° | 3740.7 | 3755.6 | 3773.3 | 3777.1 | 3763.1 | 3759.4 | 3745.4 | 3737.9 |
| 40° | 4010.0 | 4029.5 | 4056.5 | 4063.1 | 4048.0 | 4045.4 | 4025.7 | 4015.5 |
| 42.5° | 4296.8 | 4330.3 | 4363.9 | 4369.5 | 4354.5 | 4339.7 | 4320.9 | 4313.5 |
| 45° | 4617.2 | 4657.2 | 4701.0 | 4712.3 | 4689.9 | 4672.2 | 4648.0 | 4648.0 |
| 47.5° | 4976.8 | 5027.0 | 5076.4 | 5107.1 | 5086.7 | 5068.0 | 5039.1 | 5020.6 |
| 50° | 5401.4 | 5470.4 | 5534.7 | 5566.3 | 5533.8 | 5498.4 | 5448.1 | 5431.3 |
| 52.5° | 5934.3 | 6008.8 | 6064.7 | 6047.9 | 5997.7 | 5948.3 | 5893.3 | 5870.9 |
| 55° | 6614.2 | 6639.3 | 6639.3 | 6576.1 | 6475.5 | 6392.5 | 6305.9 | 6277.1 |
| 57.5° | 7464.7 | 7367.8 | 7218.8 | 7029.6 | 6792.1 | 6585.4 | 6445.6 | 6379.5 |
| 60° | 8464.1 | 7998.5 | 7472.1 | 6955.1 | 6530.4 | 6180.1 | 5972.4 | 5877.5 |
| 62.5° | 9130.1 | 7911.8 | 6857.3 | 6027.4 | 5416.4 | 4994.5 | 4707.6 | 4595.8 |
| 65° | 8533.0 | 6598.3 | 5186.3 | 4193.4 | 3527.4 | 3098.0 | 2814.0 | 2709.6 |
| 67.5° | 6250.0 | 4134.7 | 2761.7 | 1979.3 | 1450.3 | 1156.8 | 1040.4 | 992.0 |
| 70° | 2805.6 | 1455.9 | 892.3 | 696.7 | 600.8 | 551.4 | 530.0 | 522.6 |
| 72.5° | 845.7 | 612.0 | 516.0 | 465.8 | 427.5 | 403.2 | 385.5 | 383.7 |
| 75° | 510.5 | 424.7 | 377.3 | 347.5 | 323.2 | 303.6 | 294.4 | 291.5 |
| 77.5° | 356.7 | 312.1 | 289.6 | 268.2 | 249.6 | 234.7 | 226.3 | 219.8 |
| 80° | 250.5 | 229.1 | 218.8 | 206.8 | 194.7 | 180.8 | 168.6 | 163.1 |
| 82.5° | 167.7 | 163.1 | 163.1 | 155.5 | 145.4 | 132.3 | 108.0 | 102.4 |
| 85° | 108.0 | 107.1 | 108.9 | 106.2 | 98.8 | 84.7 | 69.8 | 66.1 |
| 87.5° | 50.3 | 51.3 | 56.9 | 55.9 | 54.0 | 44.7 | 35.4 | 33.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)