

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: P190875

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190875
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-07-LED-U-5WQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29889.6 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

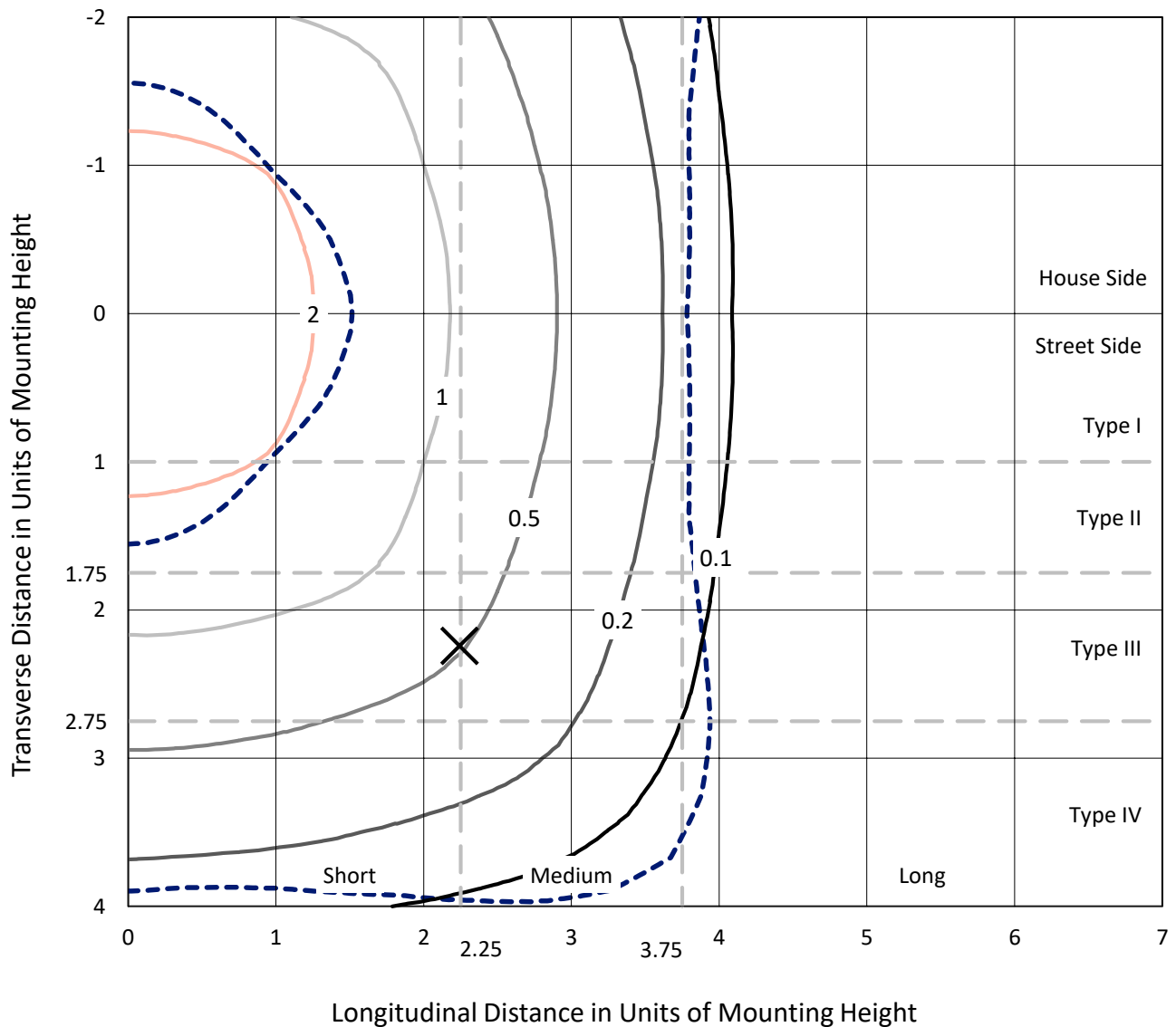
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

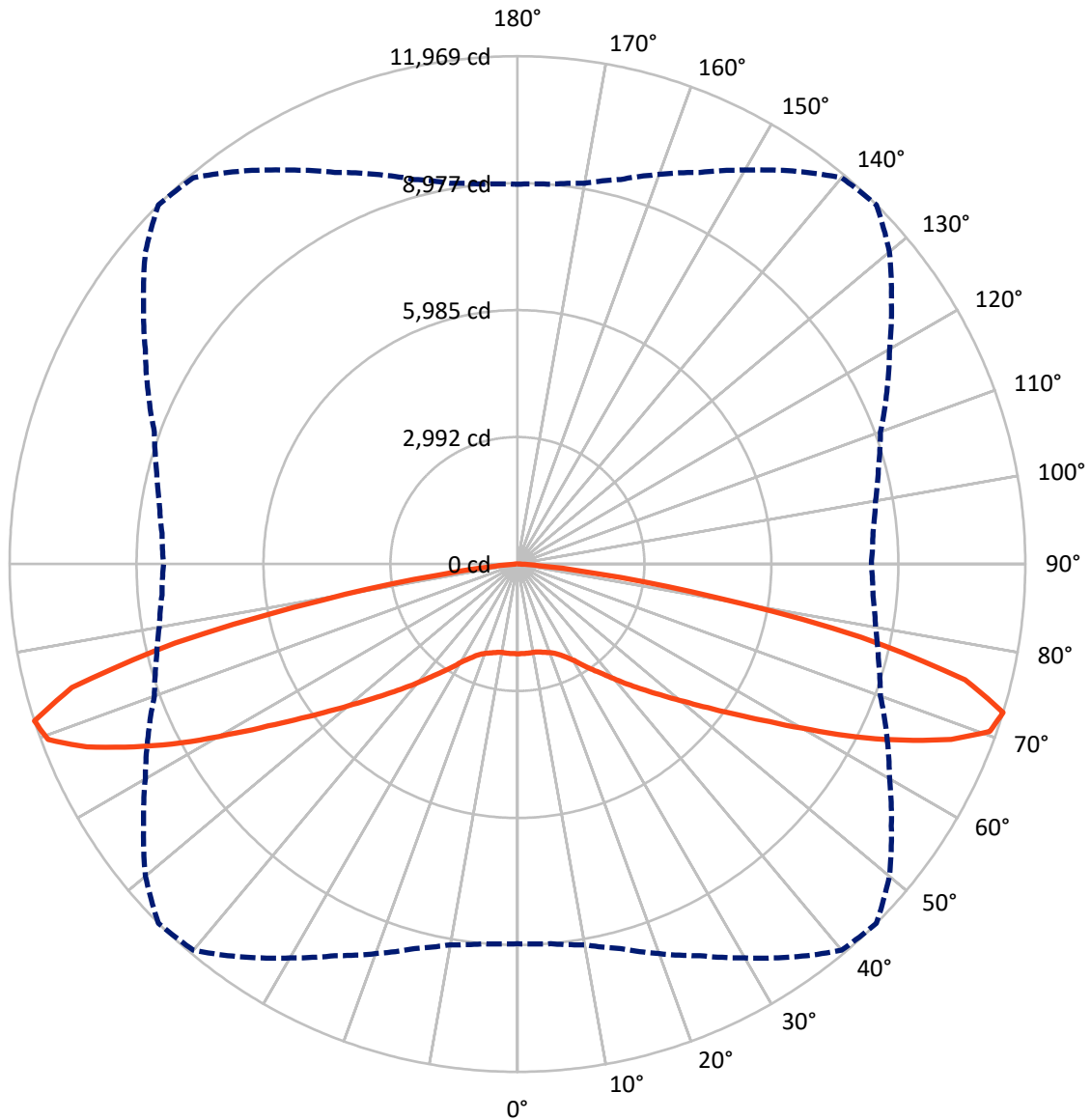
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14944.8 | 0.0 | 14944.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14944.8 | 0.0 | 14944.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29889.6 | 0.0 | 29889.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 202.1 | 0.7 |
| 10°-20° | 613.8 | 2.1 |
| 20°-30° | 1121.7 | 3.8 |
| 30°-40° | 1934.1 | 6.5 |
| 40°-50° | 3306.3 | 11.1 |
| 50°-60° | 5359.1 | 17.9 |
| 60°-70° | 8890.6 | 29.7 |
| 70°-80° | 7830.5 | 26.2 |
| 80°-90° | 631.4 | 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° | 29889.6 | 100.0 |
| 0°-180° | 29889.6 | 100.0 |



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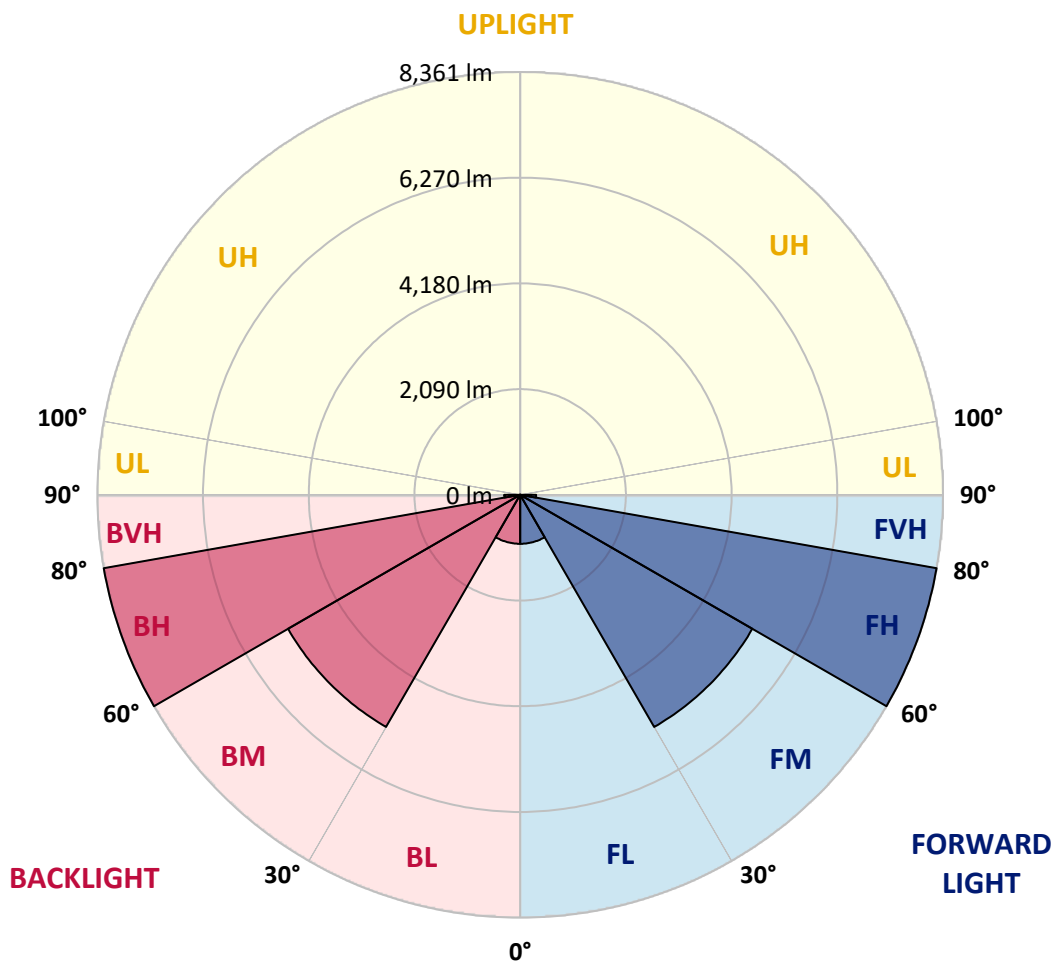
CATALOG NUMBER: GAN-AF-07-LED-U-5WQ-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 968.9 | 3.2 | | | |
| FM | (30°-60°) | 5299.7 | 17.7 | | | |
| FH | (60°-80°) | 8360.5 | 28.0 | | | G4/12000 |
| FVH | (80°-90°) | 315.7 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 968.9 | 3.2 | B2/1000 | | |
| BM | (30°-60°) | 5299.7 | 17.7 | B4/8500 | | |
| BH | (60°-80°) | 8360.5 | 28.0 | B5 | | G4/12000 |
| BVH | (80°-90°) | 315.7 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 |
| 2.5° | 2116.7 | 2118.0 | 2119.3 | 2118.0 | 2118.0 | 2116.7 | 2115.3 | 2116.7 | 2115.3 | 2112.5 | 2113.9 |
| 5° | 2123.5 | 2126.2 | 2126.2 | 2123.5 | 2124.9 | 2123.5 | 2120.8 | 2122.1 | 2119.3 | 2115.3 | 2115.3 |
| 7.5° | 2131.7 | 2133.1 | 2133.1 | 2130.4 | 2131.7 | 2129.0 | 2126.2 | 2124.9 | 2122.1 | 2116.7 | 2112.5 |
| 10° | 2144.1 | 2145.4 | 2144.1 | 2141.3 | 2141.3 | 2137.3 | 2130.4 | 2127.6 | 2122.1 | 2113.9 | 2109.8 |
| 12.5° | 2157.8 | 2159.1 | 2157.8 | 2155.1 | 2153.6 | 2146.8 | 2141.3 | 2137.3 | 2133.1 | 2126.2 | 2119.3 |
| 15° | 2176.9 | 2179.7 | 2176.9 | 2171.5 | 2167.3 | 2161.9 | 2159.1 | 2160.5 | 2161.9 | 2156.4 | 2149.5 |
| 17.5° | 2212.6 | 2214.0 | 2209.9 | 2197.5 | 2192.1 | 2186.6 | 2186.6 | 2189.3 | 2193.4 | 2190.6 | 2183.8 |
| 20° | 2278.4 | 2274.3 | 2264.7 | 2249.7 | 2242.8 | 2233.2 | 2231.8 | 2233.2 | 2233.2 | 2231.8 | 2226.4 |
| 22.5° | 2360.7 | 2357.9 | 2345.6 | 2326.4 | 2316.8 | 2311.4 | 2303.1 | 2296.2 | 2294.9 | 2290.8 | 2285.3 |
| 25° | 2459.4 | 2458.0 | 2442.9 | 2426.4 | 2419.6 | 2412.7 | 2405.9 | 2396.3 | 2388.1 | 2378.5 | 2373.0 |
| 27.5° | 2585.5 | 2580.0 | 2558.1 | 2549.8 | 2540.3 | 2536.1 | 2526.6 | 2515.5 | 2508.7 | 2496.4 | 2489.6 |
| 30° | 2723.9 | 2723.9 | 2706.1 | 2703.4 | 2703.4 | 2693.8 | 2682.8 | 2663.7 | 2651.3 | 2638.9 | 2634.8 |
| 32.5° | 2862.4 | 2863.8 | 2846.0 | 2851.5 | 2855.6 | 2862.4 | 2865.2 | 2858.3 | 2850.0 | 2848.7 | 2840.4 |
| 35° | 3062.5 | 3057.1 | 3039.3 | 3043.4 | 3041.9 | 3040.6 | 3040.6 | 3055.7 | 3058.4 | 3061.2 | 3044.7 |
| 37.5° | 3310.7 | 3310.7 | 3292.9 | 3292.9 | 3284.6 | 3276.4 | 3265.5 | 3275.1 | 3290.1 | 3294.2 | 3283.3 |
| 40° | 3594.4 | 3604.1 | 3582.2 | 3580.7 | 3583.5 | 3557.4 | 3545.1 | 3560.2 | 3569.8 | 3586.3 | 3573.9 |
| 42.5° | 3928.9 | 3922.1 | 3900.2 | 3897.4 | 3882.3 | 3874.1 | 3863.2 | 3875.4 | 3890.6 | 3901.5 | 3905.6 |
| 45° | 4249.7 | 4244.2 | 4219.6 | 4219.6 | 4204.5 | 4197.7 | 4203.1 | 4223.7 | 4230.5 | 4245.7 | 4260.7 |
| 47.5° | 4566.5 | 4559.6 | 4543.1 | 4550.0 | 4551.3 | 4563.7 | 4581.5 | 4600.7 | 4619.9 | 4640.4 | 4647.3 |
| 50° | 4889.9 | 4891.3 | 4873.5 | 4889.9 | 4910.5 | 4944.7 | 4992.7 | 5024.3 | 5064.0 | 5090.1 | 5098.3 |
| 52.5° | 5184.7 | 5190.1 | 5209.4 | 5247.7 | 5288.9 | 5356.1 | 5438.3 | 5515.0 | 5580.9 | 5624.7 | 5622.0 |
| 55° | 5538.4 | 5546.6 | 5593.2 | 5659.1 | 5726.2 | 5827.6 | 5949.7 | 6085.3 | 6195.0 | 6258.1 | 6218.3 |
| 57.5° | 5990.8 | 6008.6 | 6060.7 | 6149.8 | 6249.8 | 6381.5 | 6548.7 | 6753.0 | 6923.0 | 7007.9 | 6943.6 |
| 60° | 6611.7 | 6622.8 | 6685.8 | 6784.5 | 6905.1 | 7068.3 | 7291.7 | 7565.9 | 7805.8 | 7918.3 | 7844.2 |
| 62.5° | 7430.2 | 7450.8 | 7501.5 | 7601.5 | 7724.9 | 7910.0 | 8182.8 | 8525.6 | 8824.4 | 8980.7 | 8813.4 |
| 65° | 8407.6 | 8473.4 | 8516.0 | 8617.4 | 8732.5 | 8928.6 | 9213.7 | 9581.2 | 9902.0 | 10004.8 | 9811.4 |
| 67.5° | 9375.4 | 9433.0 | 9507.1 | 9623.6 | 9740.1 | 9960.9 | 10225.4 | 10581.9 | 10934.2 | 11027.4 | 10727.2 |
| 70° | 9799.1 | 9832.0 | 9947.2 | 10106.1 | 10329.7 | 10590.1 | 10895.8 | 11296.1 | 11732.0 | 11808.8 | 11427.7 |
| 72.5° | 8950.5 | 8983.5 | 9112.2 | 9382.3 | 9771.6 | 10185.7 | 10719.0 | 11307.1 | 11882.8 | 11969.2 | 11444.2 |
| 75° | 6769.5 | 6716.0 | 6906.6 | 7264.3 | 7789.4 | 8366.5 | 9112.2 | 9955.4 | 10787.5 | 10895.8 | 10269.3 |
| 77.5° | 3498.5 | 3491.6 | 3635.6 | 4079.7 | 4706.3 | 5362.9 | 6184.0 | 7136.8 | 7951.1 | 8280.2 | 7770.2 |
| 80° | 985.7 | 996.7 | 1065.2 | 1285.8 | 1652.0 | 2126.2 | 2767.8 | 3660.2 | 4326.5 | 4666.5 | 4381.4 |
| 82.5° | 386.6 | 416.8 | 442.8 | 484.0 | 531.9 | 601.8 | 803.3 | 1195.4 | 1604.0 | 1916.5 | 1569.6 |
| 85° | 138.5 | 148.0 | 209.7 | 248.2 | 252.3 | 266.0 | 303.0 | 353.7 | 426.4 | 508.6 | 418.1 |
| 87.5° | 52.1 | 57.6 | 67.2 | 111.1 | 109.7 | 100.0 | 122.0 | 127.5 | 96.0 | 87.8 | 108.3 |
| 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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CATALOG NUMBER: GAN-AF-07-LED-U-5WQ-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 | 2116.7 |
| 2.5° | 2111.2 | 2112.5 | 2112.5 | 2113.9 | 2115.3 | 2115.3 | 2118.0 | 2118.0 |
| 5° | 2112.5 | 2112.5 | 2109.8 | 2111.2 | 2109.8 | 2109.8 | 2111.2 | 2111.2 |
| 7.5° | 2109.8 | 2108.4 | 2105.6 | 2104.3 | 2101.6 | 2101.6 | 2101.6 | 2101.6 |
| 10° | 2105.6 | 2104.3 | 2101.6 | 2100.2 | 2098.8 | 2098.8 | 2098.8 | 2098.8 |
| 12.5° | 2116.7 | 2112.5 | 2109.8 | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 |
| 15° | 2145.4 | 2135.8 | 2129.0 | 2129.0 | 2130.4 | 2133.1 | 2133.1 | 2135.8 |
| 17.5° | 2181.0 | 2170.1 | 2163.2 | 2157.8 | 2160.5 | 2164.7 | 2167.3 | 2170.1 |
| 20° | 2223.6 | 2218.1 | 2208.4 | 2203.0 | 2203.0 | 2208.4 | 2211.2 | 2212.6 |
| 22.5° | 2282.5 | 2278.4 | 2274.3 | 2267.5 | 2267.5 | 2270.2 | 2275.7 | 2275.7 |
| 25° | 2370.3 | 2367.5 | 2364.8 | 2359.3 | 2357.9 | 2357.9 | 2360.7 | 2363.4 |
| 27.5° | 2479.9 | 2481.3 | 2478.6 | 2477.2 | 2473.1 | 2471.8 | 2475.8 | 2474.4 |
| 30° | 2626.6 | 2633.5 | 2640.3 | 2634.8 | 2628.0 | 2623.9 | 2619.8 | 2614.3 |
| 32.5° | 2825.4 | 2817.2 | 2811.7 | 2802.1 | 2789.8 | 2778.7 | 2770.6 | 2760.9 |
| 35° | 3013.2 | 2999.5 | 2994.0 | 3002.3 | 3000.8 | 2994.0 | 2984.5 | 2976.2 |
| 37.5° | 3243.5 | 3240.8 | 3243.5 | 3258.6 | 3255.8 | 3262.7 | 3243.5 | 3242.1 |
| 40° | 3534.2 | 3536.9 | 3556.1 | 3573.9 | 3583.5 | 3593.1 | 3582.2 | 3571.1 |
| 42.5° | 3871.4 | 3870.0 | 3876.9 | 3901.5 | 3918.0 | 3928.9 | 3905.6 | 3902.9 |
| 45° | 4227.9 | 4218.2 | 4223.7 | 4244.2 | 4260.7 | 4273.1 | 4247.0 | 4247.0 |
| 47.5° | 4619.9 | 4603.5 | 4585.6 | 4608.9 | 4618.5 | 4626.7 | 4606.1 | 4599.3 |
| 50° | 5057.2 | 5022.9 | 4984.5 | 4994.1 | 4994.1 | 4991.4 | 4965.3 | 4964.0 |
| 52.5° | 5558.9 | 5495.9 | 5425.9 | 5400.0 | 5384.8 | 5368.3 | 5323.1 | 5301.2 |
| 55° | 6136.1 | 6041.4 | 5931.8 | 5864.7 | 5829.0 | 5783.8 | 5708.4 | 5687.8 |
| 57.5° | 6810.6 | 6662.5 | 6473.3 | 6391.1 | 6311.6 | 6237.5 | 6153.9 | 6130.6 |
| 60° | 7609.8 | 7391.8 | 7140.9 | 6988.8 | 6902.4 | 6831.2 | 6744.7 | 6740.6 |
| 62.5° | 8500.8 | 8156.8 | 7873.0 | 7735.9 | 7672.8 | 7609.8 | 7527.5 | 7538.5 |
| 65° | 9407.1 | 9047.9 | 8781.9 | 8670.8 | 8611.9 | 8559.8 | 8477.6 | 8489.9 |
| 67.5° | 10300.8 | 9970.5 | 9678.4 | 9564.7 | 9498.9 | 9433.0 | 9359.1 | 9371.4 |
| 70° | 10942.4 | 10532.5 | 10203.5 | 9951.3 | 9793.6 | 9615.4 | 9500.2 | 9471.5 |
| 72.5° | 10758.7 | 10126.7 | 9604.4 | 9104.1 | 8810.7 | 8572.1 | 8410.4 | 8340.4 |
| 75° | 9311.1 | 8447.4 | 7775.7 | 7161.5 | 6816.0 | 6535.0 | 6330.7 | 6203.3 |
| 77.5° | 6914.7 | 5944.2 | 5150.5 | 4443.1 | 3883.7 | 3508.1 | 3243.5 | 3072.1 |
| 80° | 3785.0 | 2878.9 | 2104.3 | 1479.2 | 1087.1 | 903.4 | 797.9 | 747.2 |
| 82.5° | 1179.0 | 760.9 | 560.7 | 484.0 | 449.7 | 430.5 | 399.0 | 348.2 |
| 85° | 375.6 | 329.0 | 305.7 | 292.0 | 278.2 | 242.6 | 167.3 | 152.2 |
| 87.5° | 145.4 | 149.5 | 148.0 | 139.8 | 142.6 | 102.8 | 82.2 | 72.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)