

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: P191693

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191693
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31336 lumens
Efficiency: N/A
Efficacy: 112.3 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

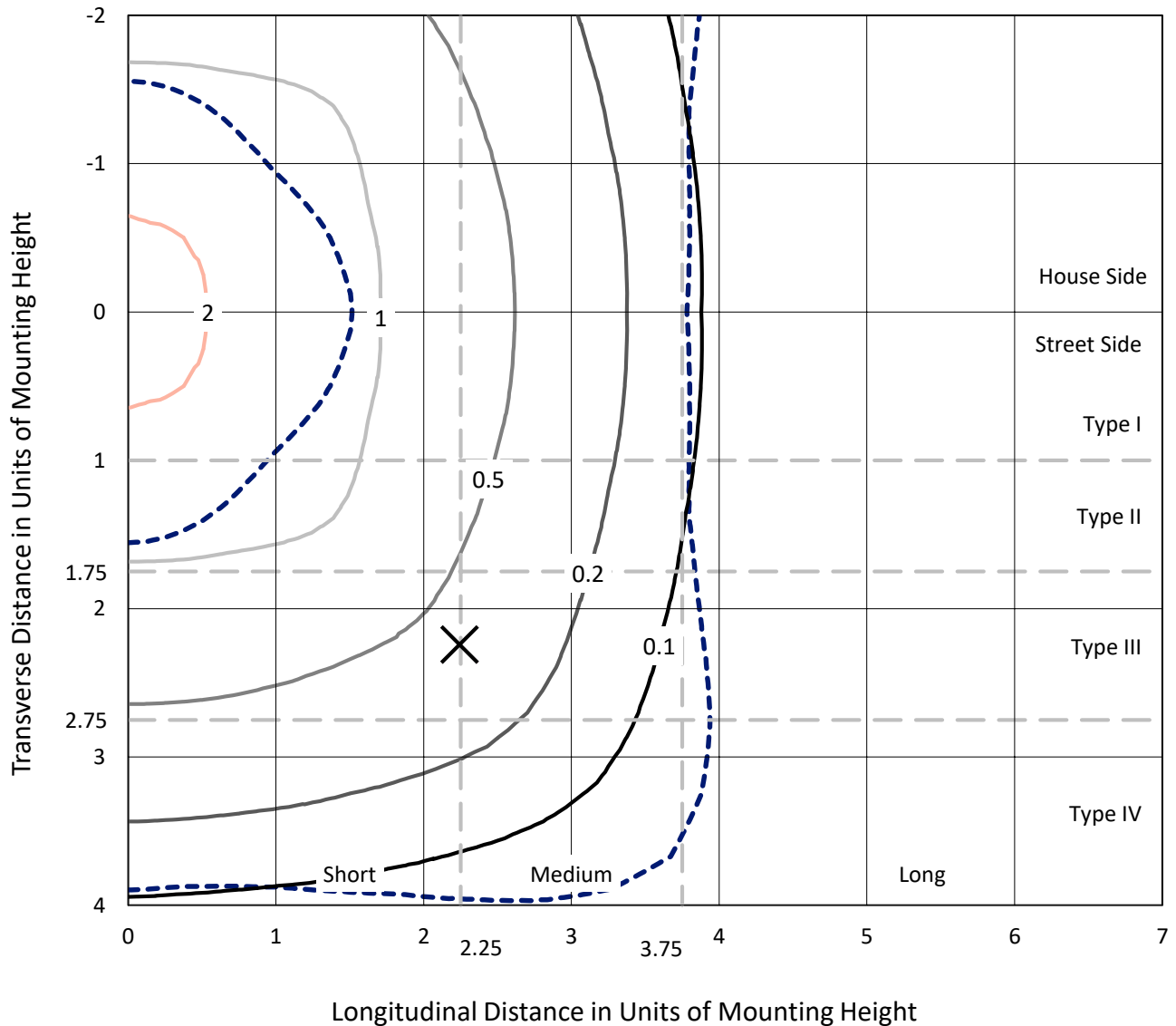
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

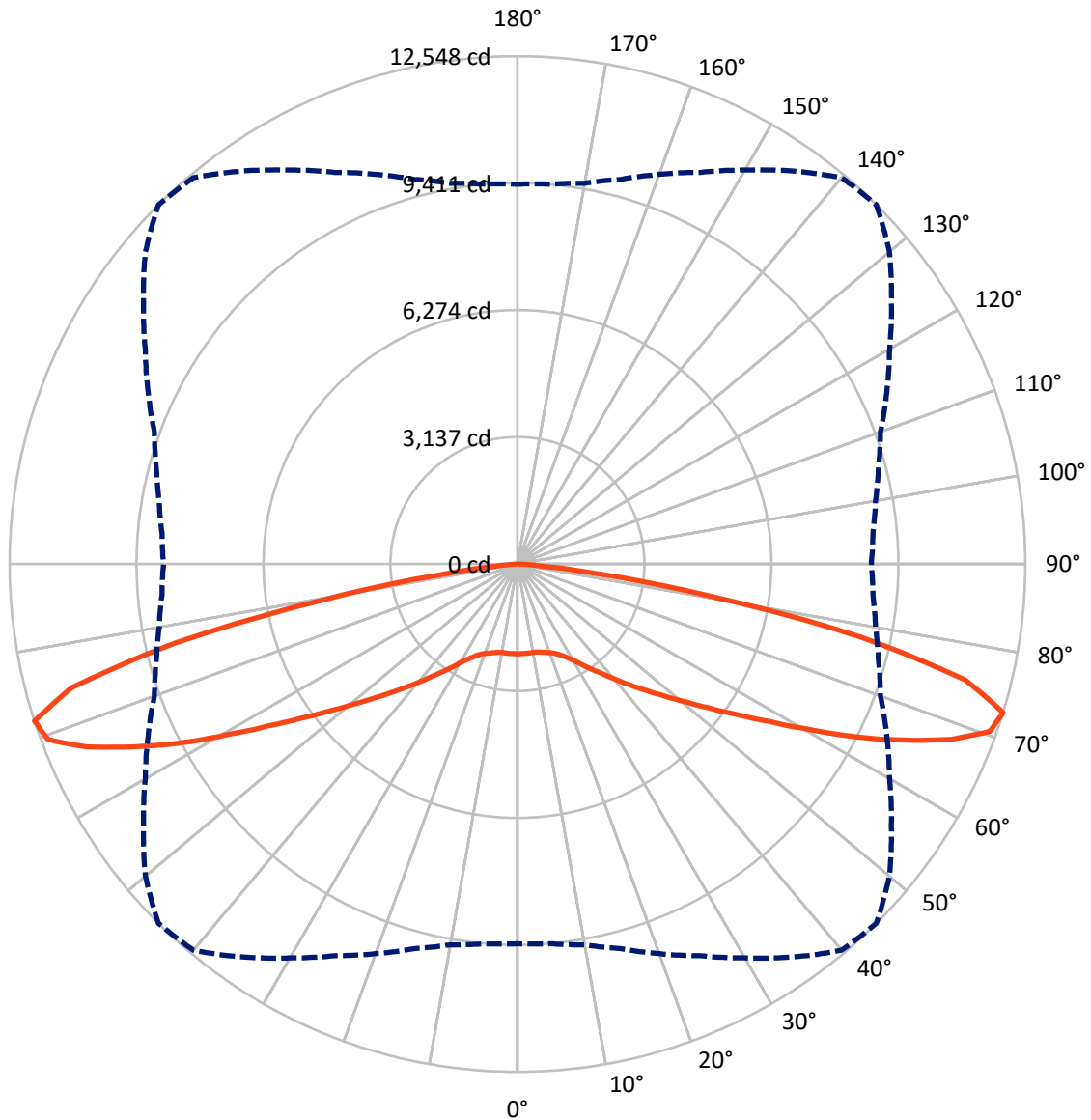
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.5 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 | 15668.0 | 0.0 | 15668.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15668.0 | 0.0 | 15668.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31336.0 | 0.0 | 31336.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 211.9 | 0.7 |
| 10°-20° | 643.6 | 2.1 |
| 20°-30° | 1176.0 | 3.8 |
| 30°-40° | 2027.7 | 6.5 |
| 40°-50° | 3466.3 | 11.1 |
| 50°-60° | 5618.4 | 17.9 |
| 60°-70° | 9320.8 | 29.7 |
| 70°-80° | 8209.4 | 26.2 |
| 80°-90° | 661.9 | 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° | 31336.0 | 100.0 |
| 0°-180° | 31336.0 | 100.0 |



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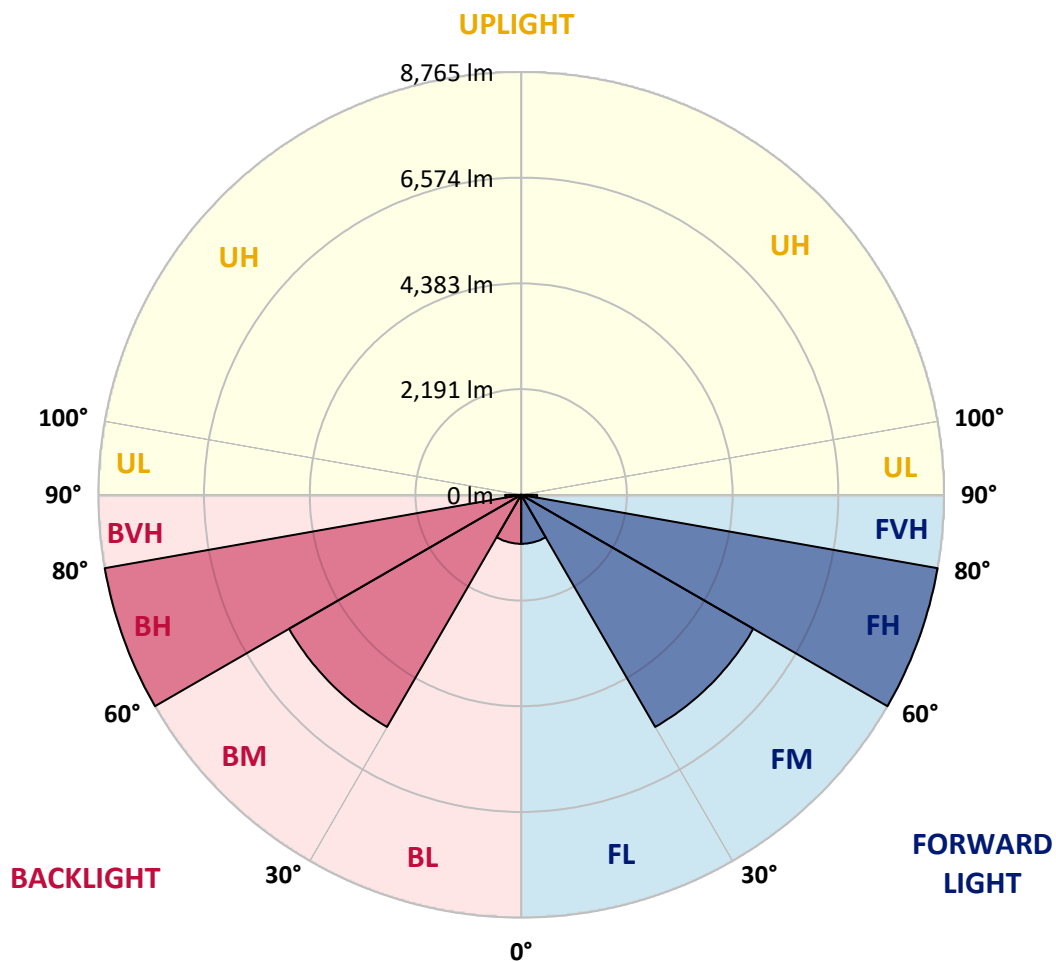
CATALOG NUMBER: GAN-AF-05-LED-U-5WQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1015.7 | 3.2 | | | |
| FM | (30°-60°) | 5556.2 | 17.7 | | | |
| FH | (60°-80°) | 8765.1 | 28.0 | | | G4/12000 |
| FVH | (80°-90°) | 331.0 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1015.7 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 5556.2 | 17.7 | B4/8500 | | |
| BH | (60°-80°) | 8765.1 | 28.0 | B5 | | G4/12000 |
| BVH | (80°-90°) | 331.0 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 |
| 2.5° | 2219.1 | 2220.5 | 2222.0 | 2220.5 | 2220.5 | 2219.1 | 2217.6 | 2219.1 | 2217.6 | 2214.8 | 2216.2 |
| 5° | 2226.3 | 2229.1 | 2229.1 | 2226.3 | 2227.7 | 2226.3 | 2223.4 | 2224.8 | 2222.0 | 2217.6 | 2217.6 |
| 7.5° | 2234.9 | 2236.3 | 2236.3 | 2233.4 | 2234.9 | 2232.0 | 2229.1 | 2227.7 | 2224.8 | 2219.1 | 2214.8 |
| 10° | 2247.8 | 2249.3 | 2247.8 | 2244.9 | 2244.9 | 2240.6 | 2233.4 | 2230.6 | 2224.8 | 2216.2 | 2211.9 |
| 12.5° | 2262.2 | 2263.6 | 2262.2 | 2259.3 | 2257.9 | 2250.7 | 2244.9 | 2240.6 | 2236.3 | 2229.1 | 2222.0 |
| 15° | 2282.3 | 2285.2 | 2282.3 | 2276.6 | 2272.3 | 2266.5 | 2263.6 | 2265.1 | 2266.5 | 2260.8 | 2253.6 |
| 17.5° | 2319.7 | 2321.1 | 2316.8 | 2303.9 | 2298.1 | 2292.4 | 2292.4 | 2295.2 | 2299.6 | 2296.7 | 2289.5 |
| 20° | 2388.7 | 2384.4 | 2374.3 | 2358.5 | 2351.3 | 2341.2 | 2339.8 | 2341.2 | 2341.2 | 2339.8 | 2334.1 |
| 22.5° | 2474.9 | 2472.0 | 2459.1 | 2439.0 | 2428.9 | 2423.2 | 2414.5 | 2407.4 | 2405.9 | 2401.6 | 2395.9 |
| 25° | 2578.4 | 2576.9 | 2561.1 | 2543.9 | 2536.7 | 2529.5 | 2522.3 | 2512.3 | 2503.6 | 2493.6 | 2487.8 |
| 27.5° | 2710.6 | 2704.9 | 2681.9 | 2673.2 | 2663.2 | 2658.9 | 2648.8 | 2637.3 | 2630.1 | 2617.2 | 2610.0 |
| 30° | 2855.8 | 2855.8 | 2837.1 | 2834.2 | 2834.2 | 2824.1 | 2812.6 | 2792.5 | 2779.6 | 2766.7 | 2762.3 |
| 32.5° | 3000.9 | 3002.4 | 2983.7 | 2989.4 | 2993.7 | 3000.9 | 3003.8 | 2996.6 | 2988.0 | 2986.6 | 2977.9 |
| 35° | 3210.8 | 3205.0 | 3186.3 | 3190.6 | 3189.2 | 3187.8 | 3187.8 | 3203.6 | 3206.4 | 3209.3 | 3192.1 |
| 37.5° | 3470.9 | 3470.9 | 3452.2 | 3452.2 | 3443.6 | 3435.0 | 3423.5 | 3433.5 | 3449.3 | 3453.7 | 3442.2 |
| 40° | 3768.4 | 3778.5 | 3755.5 | 3754.0 | 3756.9 | 3729.6 | 3716.7 | 3732.5 | 3742.5 | 3759.8 | 3746.8 |
| 42.5° | 4119.1 | 4111.9 | 4088.9 | 4086.0 | 4070.2 | 4061.6 | 4050.1 | 4063.0 | 4078.8 | 4090.3 | 4094.7 |
| 45° | 4455.4 | 4449.6 | 4423.8 | 4423.8 | 4408.0 | 4400.8 | 4406.5 | 4428.1 | 4435.3 | 4451.1 | 4466.9 |
| 47.5° | 4787.4 | 4780.2 | 4763.0 | 4770.2 | 4771.6 | 4784.5 | 4803.2 | 4823.3 | 4843.4 | 4865.0 | 4872.2 |
| 50° | 5126.6 | 5128.0 | 5109.3 | 5126.6 | 5148.1 | 5184.1 | 5234.4 | 5267.4 | 5309.1 | 5336.4 | 5345.0 |
| 52.5° | 5435.6 | 5441.3 | 5461.5 | 5501.7 | 5544.8 | 5615.2 | 5701.5 | 5782.0 | 5850.9 | 5896.9 | 5894.1 |
| 55° | 5806.4 | 5815.0 | 5863.9 | 5932.9 | 6003.3 | 6109.6 | 6237.6 | 6379.8 | 6494.8 | 6560.9 | 6519.3 |
| 57.5° | 6280.7 | 6299.4 | 6354.0 | 6447.4 | 6552.3 | 6690.3 | 6865.6 | 7079.8 | 7258.0 | 7347.1 | 7279.5 |
| 60° | 6931.7 | 6943.2 | 7009.3 | 7112.8 | 7239.3 | 7410.3 | 7644.6 | 7932.0 | 8183.6 | 8301.4 | 8223.8 |
| 62.5° | 7789.8 | 7811.3 | 7864.5 | 7969.4 | 8098.8 | 8292.8 | 8578.8 | 8938.1 | 9251.4 | 9415.3 | 9239.9 |
| 65° | 8814.5 | 8883.5 | 8928.0 | 9034.4 | 9155.1 | 9360.6 | 9659.6 | 10044.8 | 10381.1 | 10488.9 | 10286.2 |
| 67.5° | 9829.2 | 9889.5 | 9967.2 | 10089.3 | 10211.5 | 10442.9 | 10720.3 | 11093.9 | 11463.3 | 11561.0 | 11246.3 |
| 70° | 10273.3 | 10307.8 | 10428.5 | 10595.2 | 10829.5 | 11102.6 | 11423.1 | 11842.7 | 12299.8 | 12380.3 | 11980.7 |
| 72.5° | 9383.6 | 9418.1 | 9553.2 | 9836.4 | 10244.5 | 10678.6 | 11237.7 | 11854.2 | 12457.9 | 12548.4 | 11998.0 |
| 75° | 7097.0 | 7041.0 | 7240.7 | 7615.9 | 8166.3 | 8771.4 | 9553.2 | 10437.1 | 11309.5 | 11423.1 | 10766.3 |
| 77.5° | 3667.8 | 3660.6 | 3811.5 | 4277.2 | 4934.0 | 5622.4 | 6483.3 | 7482.2 | 8335.9 | 8680.8 | 8146.2 |
| 80° | 1033.4 | 1044.9 | 1116.7 | 1348.1 | 1731.9 | 2229.1 | 2901.8 | 3837.4 | 4535.9 | 4892.3 | 4593.4 |
| 82.5° | 405.3 | 436.9 | 464.2 | 507.3 | 557.6 | 630.9 | 842.2 | 1253.3 | 1681.6 | 2009.2 | 1645.6 |
| 85° | 145.2 | 155.2 | 219.9 | 260.1 | 264.4 | 278.8 | 317.6 | 370.8 | 447.0 | 533.2 | 438.4 |
| 87.5° | 54.6 | 60.4 | 70.4 | 116.4 | 115.0 | 104.9 | 127.9 | 133.7 | 100.6 | 92.0 | 113.5 |
| 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-05-LED-U-5WQ-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 | 2219.1 |
| 2.5° | 2213.3 | 2214.8 | 2214.8 | 2216.2 | 2217.6 | 2217.6 | 2220.5 | 2220.5 |
| 5° | 2214.8 | 2214.8 | 2211.9 | 2213.3 | 2211.9 | 2211.9 | 2213.3 | 2213.3 |
| 7.5° | 2211.9 | 2210.5 | 2207.6 | 2206.1 | 2203.3 | 2203.3 | 2203.3 | 2203.3 |
| 10° | 2207.6 | 2206.1 | 2203.3 | 2201.8 | 2200.4 | 2200.4 | 2200.4 | 2200.4 |
| 12.5° | 2219.1 | 2214.8 | 2211.9 | 2210.5 | 2210.5 | 2210.5 | 2210.5 | 2210.5 |
| 15° | 2249.3 | 2239.2 | 2232.0 | 2232.0 | 2233.4 | 2236.3 | 2236.3 | 2239.2 |
| 17.5° | 2286.6 | 2275.1 | 2267.9 | 2262.2 | 2265.1 | 2269.4 | 2272.3 | 2275.1 |
| 20° | 2331.2 | 2325.4 | 2315.4 | 2309.6 | 2309.6 | 2315.4 | 2318.2 | 2319.7 |
| 22.5° | 2393.0 | 2388.7 | 2384.4 | 2377.2 | 2377.2 | 2380.0 | 2385.8 | 2385.8 |
| 25° | 2485.0 | 2482.1 | 2479.2 | 2473.5 | 2472.0 | 2472.0 | 2474.9 | 2477.8 |
| 27.5° | 2599.9 | 2601.4 | 2598.5 | 2597.1 | 2592.8 | 2591.3 | 2595.6 | 2594.2 |
| 30° | 2753.7 | 2760.9 | 2768.1 | 2762.3 | 2755.2 | 2750.8 | 2746.5 | 2740.8 |
| 32.5° | 2962.1 | 2953.5 | 2947.7 | 2937.7 | 2924.8 | 2913.3 | 2904.6 | 2894.6 |
| 35° | 3159.0 | 3144.6 | 3138.9 | 3147.5 | 3146.1 | 3138.9 | 3128.8 | 3120.2 |
| 37.5° | 3400.5 | 3397.6 | 3400.5 | 3416.3 | 3413.4 | 3420.6 | 3400.5 | 3399.0 |
| 40° | 3705.2 | 3708.0 | 3728.2 | 3746.8 | 3756.9 | 3767.0 | 3755.5 | 3744.0 |
| 42.5° | 4058.7 | 4057.3 | 4064.5 | 4090.3 | 4107.6 | 4119.1 | 4094.7 | 4091.8 |
| 45° | 4432.4 | 4422.3 | 4428.1 | 4449.6 | 4466.9 | 4479.8 | 4452.5 | 4452.5 |
| 47.5° | 4843.4 | 4826.2 | 4807.5 | 4832.0 | 4842.0 | 4850.6 | 4829.1 | 4821.9 |
| 50° | 5301.9 | 5266.0 | 5225.8 | 5235.8 | 5235.8 | 5232.9 | 5205.6 | 5204.2 |
| 52.5° | 5827.9 | 5761.8 | 5688.5 | 5661.2 | 5645.4 | 5628.2 | 5580.7 | 5557.7 |
| 55° | 6433.0 | 6333.9 | 6218.9 | 6148.4 | 6111.1 | 6063.7 | 5984.6 | 5963.0 |
| 57.5° | 7140.1 | 6984.9 | 6786.6 | 6700.3 | 6617.0 | 6539.4 | 6451.7 | 6427.3 |
| 60° | 7978.0 | 7749.5 | 7486.5 | 7327.0 | 7236.4 | 7161.7 | 7071.1 | 7066.8 |
| 62.5° | 8912.2 | 8551.5 | 8254.0 | 8110.3 | 8044.1 | 7978.0 | 7891.8 | 7903.3 |
| 65° | 9862.2 | 9485.7 | 9206.9 | 9090.4 | 9028.6 | 8974.0 | 8887.8 | 8900.7 |
| 67.5° | 10799.3 | 10452.9 | 10146.8 | 10027.5 | 9958.5 | 9889.5 | 9811.9 | 9824.9 |
| 70° | 11471.9 | 11042.2 | 10697.3 | 10432.8 | 10267.5 | 10080.7 | 9960.0 | 9929.8 |
| 72.5° | 11279.3 | 10616.8 | 10069.2 | 9544.6 | 9237.0 | 8987.0 | 8817.4 | 8744.1 |
| 75° | 9761.6 | 8856.2 | 8151.9 | 7508.1 | 7145.9 | 6851.3 | 6637.1 | 6503.4 |
| 77.5° | 7249.4 | 6231.8 | 5399.7 | 4658.0 | 4071.7 | 3677.9 | 3400.5 | 3220.8 |
| 80° | 3968.2 | 3018.2 | 2206.1 | 1550.8 | 1139.7 | 947.1 | 836.5 | 783.3 |
| 82.5° | 1236.0 | 797.7 | 587.8 | 507.3 | 471.4 | 451.3 | 418.2 | 365.1 |
| 85° | 393.8 | 344.9 | 320.5 | 306.1 | 291.8 | 254.4 | 175.3 | 159.5 |
| 87.5° | 152.3 | 156.7 | 155.2 | 146.6 | 149.5 | 107.8 | 86.2 | 76.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)