

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: P302916

Luminaire Tested: **GAA-AF-06-LED-U-T4W-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-06-LED-U-T4W-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23210.2 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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

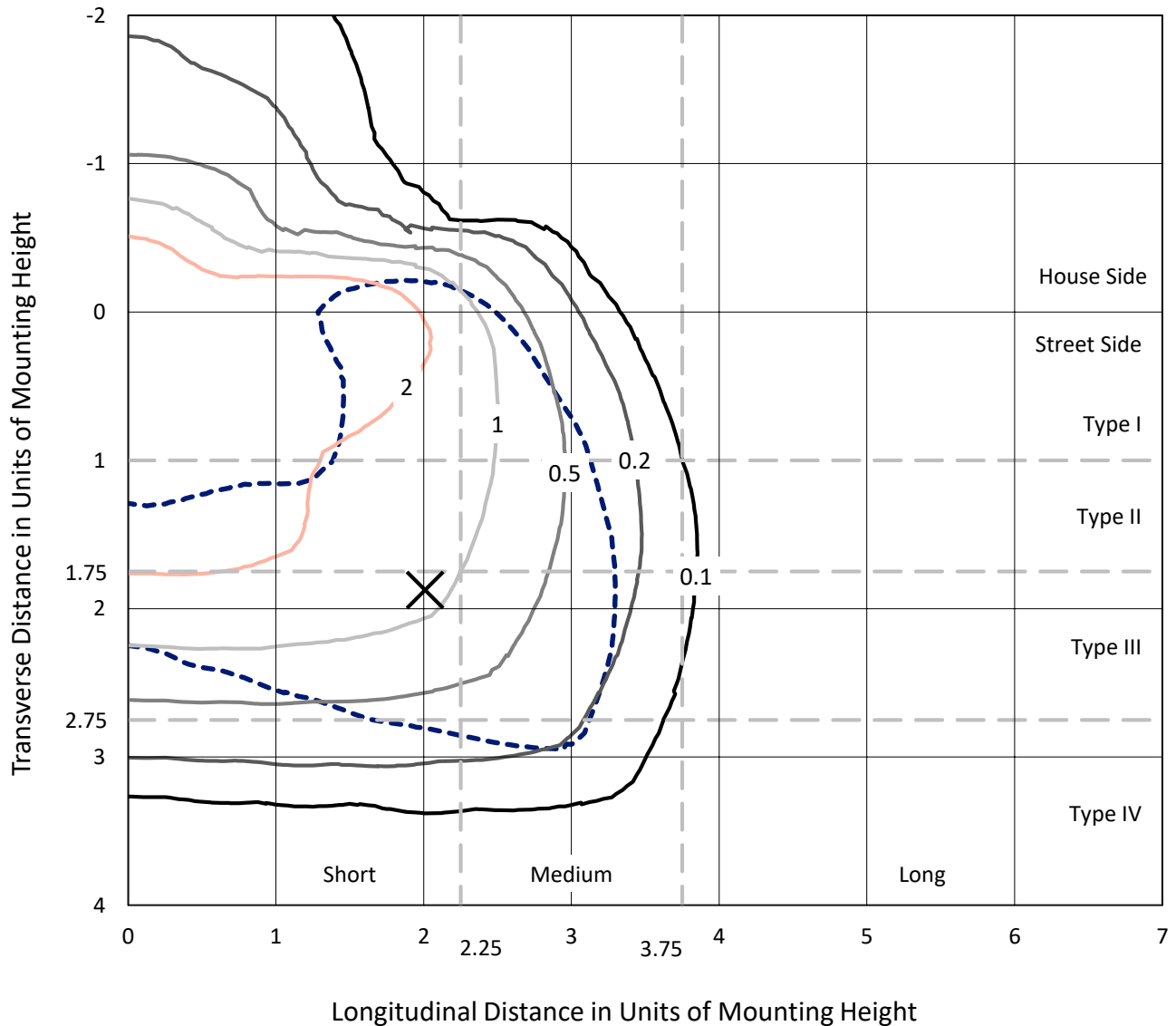


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Iso-Footcandle Lines of Horizontal Illumination

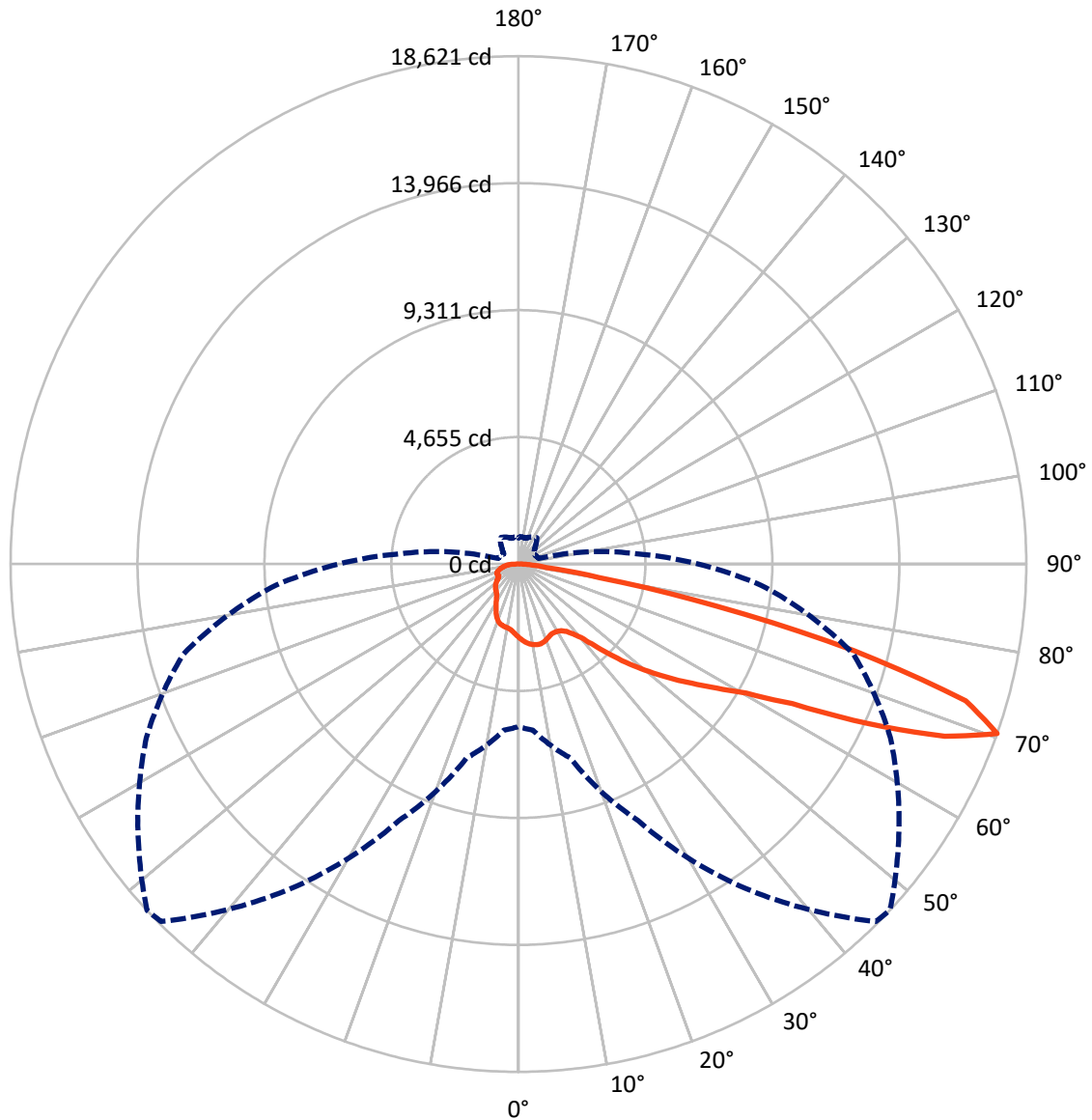
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4842.1 | 0.0 | 4842.1 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 18368.1 | 0.0 | 18368.1 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 23210.2 | 0.0 | 23210.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 258.0 | 1.1 |
| 10°-20° | 757.0 | 3.3 |
| 20°-30° | 1117.9 | 4.8 |
| 30°-40° | 1624.9 | 7.0 |
| 40°-50° | 2924.2 | 12.6 |
| 50°-60° | 5066.0 | 21.8 |
| 60°-70° | 7230.6 | 31.2 |
| 70°-80° | 3711.8 | 16.0 |
| 80°-90° | 519.7 | 2.2 |
| 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° | 23210.2 | 100.0 |
| 0°-180° | 23210.2 | 100.0 |

Coefficient of Utilization



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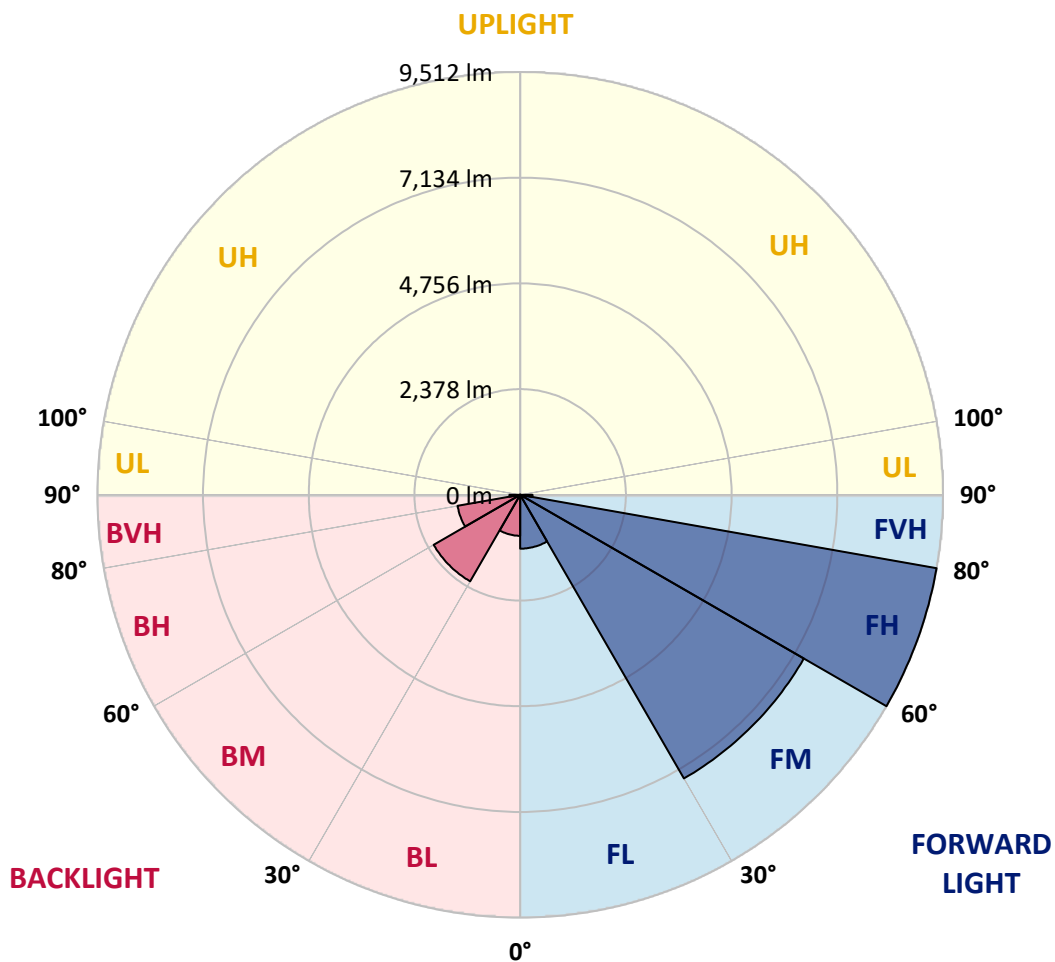
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1211.1 | 5.2 | | | |
| FM | (30°-60°) | 7367.5 | 31.7 | | | |
| FH | (60°-80°) | 9512.2 | 41.0 | | | G4/12000 |
| FVH | (80°-90°) | 277.3 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 922.0 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 2247.6 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 1430.2 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 242.4 | 1.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 |
| 2.5° | 2851.3 | 2845.7 | 2843.4 | 2838.9 | 2833.3 | 2804.8 | 2799.2 | 2778.9 | 2750.8 | 2721.2 | 2690.8 |
| 5° | 3038.8 | 3037.7 | 3024.9 | 3002.4 | 2966.4 | 2904.2 | 2889.6 | 2840.0 | 2773.3 | 2708.8 | 2644.7 |
| 7.5° | 3203.4 | 3193.3 | 3169.7 | 3124.3 | 3061.3 | 2976.6 | 2956.3 | 2887.3 | 2795.8 | 2707.7 | 2620.7 |
| 10° | 3324.2 | 3318.6 | 3266.8 | 3204.6 | 3122.1 | 3028.3 | 3004.7 | 2927.8 | 2827.3 | 2715.5 | 2607.2 |
| 12.5° | 3393.2 | 3382.0 | 3322.0 | 3247.7 | 3149.4 | 3057.9 | 3033.9 | 2956.3 | 2843.4 | 2715.5 | 2588.0 |
| 15° | 3388.7 | 3380.8 | 3320.8 | 3239.4 | 3140.4 | 3060.2 | 3038.8 | 2960.8 | 2840.0 | 2704.3 | 2563.3 |
| 17.5° | 3298.3 | 3301.7 | 3251.1 | 3170.8 | 3089.4 | 3028.3 | 3009.2 | 2937.2 | 2817.2 | 2681.8 | 2534.0 |
| 20° | 3140.4 | 3156.2 | 3122.1 | 3051.2 | 3005.8 | 2964.2 | 2951.8 | 2890.7 | 2782.3 | 2649.2 | 2502.2 |
| 22.5° | 2982.2 | 2996.8 | 2983.3 | 2923.3 | 2916.6 | 2891.8 | 2885.1 | 2841.2 | 2751.9 | 2628.9 | 2483.0 |
| 25° | 2865.9 | 2879.4 | 2877.2 | 2825.0 | 2845.7 | 2844.5 | 2838.9 | 2817.2 | 2745.2 | 2628.9 | 2486.4 |
| 27.5° | 2834.4 | 2838.9 | 2834.4 | 2786.8 | 2814.9 | 2837.8 | 2833.3 | 2829.5 | 2765.4 | 2661.5 | 2529.5 |
| 30° | 2942.8 | 2936.1 | 2900.8 | 2804.8 | 2831.0 | 2862.5 | 2858.0 | 2860.3 | 2826.2 | 2747.4 | 2625.5 |
| 32.5° | 3375.2 | 3344.5 | 3233.8 | 2964.2 | 2895.2 | 2912.1 | 2914.3 | 2951.8 | 2957.4 | 2879.4 | 2774.4 |
| 35° | 4022.1 | 3988.4 | 3844.7 | 3391.0 | 3095.1 | 3036.6 | 3036.6 | 3092.8 | 3126.6 | 3069.2 | 3005.8 |
| 37.5° | 4707.7 | 4670.2 | 4593.7 | 3982.7 | 3515.1 | 3252.2 | 3246.6 | 3286.0 | 3334.3 | 3348.2 | 3364.0 |
| 40° | 5486.6 | 5447.2 | 5468.6 | 4646.5 | 4101.3 | 3625.7 | 3545.5 | 3517.3 | 3648.2 | 3735.2 | 3862.0 |
| 42.5° | 6339.4 | 6321.0 | 6328.9 | 5386.1 | 4768.4 | 4184.9 | 4070.9 | 3925.0 | 4083.2 | 4237.8 | 4503.3 |
| 45° | 7128.4 | 7144.2 | 7136.3 | 6177.8 | 5511.7 | 4866.7 | 4745.9 | 4463.5 | 4618.4 | 4883.5 | 5316.3 |
| 47.5° | 7819.6 | 7754.0 | 7855.6 | 7042.6 | 6343.9 | 5630.2 | 5481.0 | 5102.9 | 5259.7 | 5587.1 | 6318.8 |
| 50° | 8658.5 | 8649.5 | 8500.6 | 8196.9 | 7349.7 | 6396.8 | 6201.4 | 5763.4 | 6007.1 | 6462.4 | 7582.6 |
| 52.5° | 9540.6 | 9376.7 | 9240.2 | 9094.3 | 8417.0 | 7182.8 | 6943.2 | 6421.5 | 6885.8 | 7458.1 | 9122.8 |
| 55° | 9721.0 | 9647.8 | 9817.0 | 10062.2 | 9445.7 | 7999.2 | 7720.2 | 7246.9 | 7875.1 | 8596.7 | 10898.9 |
| 57.5° | 10107.2 | 10106.1 | 10456.4 | 10893.3 | 10504.8 | 8865.2 | 8583.9 | 8244.1 | 8987.0 | 9900.6 | 12784.5 |
| 60° | 10368.3 | 10441.4 | 11092.1 | 11940.0 | 11544.7 | 9865.7 | 9607.0 | 9394.7 | 10252.0 | 11358.3 | 14541.5 |
| 62.5° | 10504.8 | 10604.1 | 11491.8 | 12364.5 | 13014.8 | 11531.2 | 11272.8 | 10966.8 | 11925.4 | 12957.4 | 15569.1 |
| 65° | 9937.0 | 10132.0 | 11429.6 | 12731.7 | 14302.2 | 14231.0 | 14114.7 | 13577.3 | 14017.6 | 14220.9 | 15197.8 |
| 67.5° | 8364.9 | 8564.8 | 10075.7 | 12389.3 | 15221.4 | 16835.2 | 16859.9 | 15941.8 | 15305.1 | 14329.3 | 12777.8 |
| 70° | 5959.9 | 6116.6 | 7367.0 | 10387.4 | 14521.3 | 18536.6 | 18621.4 | 17031.3 | 15048.5 | 12707.7 | 8927.4 |
| 72.5° | 2829.5 | 2925.6 | 4109.1 | 6760.5 | 11523.3 | 16984.0 | 17147.9 | 15640.3 | 12795.8 | 9408.2 | 4870.0 |
| 75° | 1039.9 | 1069.2 | 1388.7 | 2876.1 | 6683.7 | 12525.0 | 12718.2 | 11211.7 | 8482.3 | 4684.0 | 1855.2 |
| 77.5° | 623.3 | 642.4 | 779.3 | 1213.9 | 2628.9 | 7159.2 | 7444.6 | 6097.5 | 3707.1 | 1743.5 | 912.4 |
| 80° | 435.8 | 449.3 | 558.8 | 755.3 | 1242.1 | 2728.3 | 2982.2 | 2488.7 | 1476.8 | 1103.3 | 663.8 |
| 82.5° | 294.8 | 301.5 | 393.0 | 510.4 | 825.4 | 974.3 | 1051.2 | 1106.7 | 996.1 | 820.9 | 421.2 |
| 85° | 193.1 | 199.9 | 266.6 | 336.4 | 525.0 | 503.7 | 514.9 | 651.4 | 727.2 | 557.7 | 233.6 |
| 87.5° | 110.6 | 115.1 | 160.5 | 179.6 | 257.6 | 213.4 | 215.6 | 343.1 | 465.4 | 376.1 | 142.1 |
| 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: GAA-AF-06-LED-U-T4W-7050-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 | 2693.0 |
| 2.5° | 2682.9 | 2668.3 | 2635.7 | 2615.0 | 2595.9 | 2591.4 | 2583.5 | 2582.4 | 2581.3 | 2581.3 | 2577.9 |
| 5° | 2622.9 | 2598.2 | 2547.5 | 2519.0 | 2495.4 | 2493.2 | 2492.0 | 2497.7 | 2499.9 | 2502.2 | 2498.8 |
| 7.5° | 2584.7 | 2550.9 | 2487.5 | 2447.0 | 2418.9 | 2411.8 | 2423.4 | 2449.3 | 2466.2 | 2472.9 | 2469.5 |
| 10° | 2561.0 | 2519.0 | 2445.9 | 2401.6 | 2378.0 | 2374.6 | 2389.3 | 2420.0 | 2454.9 | 2468.4 | 2467.3 |
| 12.5° | 2534.0 | 2486.4 | 2408.4 | 2362.3 | 2348.8 | 2355.5 | 2374.6 | 2402.8 | 2439.1 | 2460.5 | 2461.7 |
| 15° | 2506.7 | 2451.5 | 2371.3 | 2330.8 | 2325.1 | 2334.1 | 2352.1 | 2373.5 | 2401.6 | 2423.4 | 2425.6 |
| 17.5° | 2474.0 | 2416.3 | 2336.4 | 2294.4 | 2289.9 | 2294.4 | 2295.5 | 2306.8 | 2325.1 | 2345.4 | 2351.0 |
| 20° | 2439.1 | 2380.3 | 2296.6 | 2255.0 | 2234.8 | 2216.8 | 2196.1 | 2198.4 | 2204.0 | 2224.6 | 2229.1 |
| 22.5° | 2414.0 | 2355.5 | 2266.3 | 2208.5 | 2154.5 | 2100.1 | 2059.6 | 2054.0 | 2056.3 | 2073.1 | 2078.8 |
| 25° | 2416.3 | 2354.4 | 2258.4 | 2159.0 | 2040.5 | 1953.5 | 1899.1 | 1890.1 | 1889.0 | 1901.4 | 1909.6 |
| 27.5° | 2460.5 | 2398.3 | 2287.6 | 2108.0 | 1916.4 | 1787.4 | 1730.0 | 1723.2 | 1714.2 | 1717.6 | 1726.6 |
| 30° | 2558.8 | 2501.0 | 2358.9 | 2056.3 | 1781.7 | 1625.0 | 1565.0 | 1558.2 | 1545.8 | 1540.2 | 1547.0 |
| 32.5° | 2718.9 | 2671.7 | 2462.8 | 2006.4 | 1647.5 | 1485.8 | 1425.1 | 1410.5 | 1402.6 | 1395.8 | 1401.5 |
| 35° | 2985.6 | 2965.3 | 2601.5 | 1952.4 | 1529.0 | 1378.6 | 1323.5 | 1301.0 | 1289.7 | 1302.1 | 1311.1 |
| 37.5° | 3403.3 | 3414.6 | 2783.4 | 1867.6 | 1437.5 | 1307.7 | 1261.2 | 1235.3 | 1218.4 | 1228.6 | 1238.7 |
| 40° | 3995.1 | 4003.0 | 2984.4 | 1748.0 | 1358.3 | 1265.7 | 1216.2 | 1192.6 | 1168.6 | 1150.6 | 1149.4 |
| 42.5° | 4771.8 | 4691.9 | 3182.1 | 1618.2 | 1266.8 | 1239.8 | 1184.7 | 1155.1 | 1119.1 | 1069.2 | 1059.1 |
| 45° | 5693.2 | 5412.3 | 3332.1 | 1469.0 | 1164.1 | 1208.3 | 1149.4 | 1108.9 | 1052.3 | 998.3 | 992.7 |
| 47.5° | 6754.9 | 6185.6 | 3405.6 | 1314.5 | 1068.1 | 1161.8 | 1106.7 | 1042.2 | 970.9 | 943.9 | 940.6 |
| 50° | 8051.0 | 7103.7 | 3440.5 | 1164.1 | 984.8 | 1101.1 | 1044.4 | 968.7 | 909.1 | 903.4 | 900.1 |
| 52.5° | 9527.1 | 8208.1 | 3452.1 | 1041.1 | 915.8 | 1021.9 | 993.8 | 920.3 | 872.7 | 877.6 | 877.6 |
| 55° | 11071.8 | 9348.6 | 3298.3 | 951.8 | 852.4 | 940.6 | 959.7 | 901.2 | 861.4 | 879.8 | 886.6 |
| 57.5° | 12489.8 | 10359.3 | 2814.9 | 883.2 | 792.8 | 878.7 | 947.3 | 919.2 | 892.2 | 965.3 | 969.8 |
| 60° | 13578.5 | 10956.3 | 2102.4 | 820.9 | 748.5 | 856.9 | 980.3 | 988.2 | 994.9 | 1169.7 | 1193.7 |
| 62.5° | 13806.5 | 10757.9 | 1445.3 | 772.5 | 728.3 | 875.3 | 1039.9 | 1041.1 | 1033.2 | 1155.1 | 1169.7 |
| 65° | 12759.8 | 9500.8 | 1051.2 | 745.2 | 711.4 | 907.9 | 1090.9 | 1066.9 | 1015.2 | 1107.8 | 1080.4 |
| 67.5° | 10133.1 | 7158.1 | 875.3 | 724.9 | 686.7 | 905.7 | 1144.9 | 1090.9 | 1005.1 | 1085.3 | 1041.1 |
| 70° | 6577.5 | 4328.1 | 779.3 | 708.0 | 657.0 | 862.6 | 1176.4 | 1088.7 | 975.4 | 1009.6 | 957.4 |
| 72.5° | 3209.1 | 1935.5 | 714.8 | 683.3 | 626.7 | 802.9 | 1175.3 | 1068.1 | 945.1 | 942.8 | 914.7 |
| 75° | 1255.6 | 886.6 | 655.9 | 645.8 | 574.9 | 735.0 | 1143.8 | 1038.8 | 909.1 | 872.7 | 862.6 |
| 77.5° | 735.0 | 632.3 | 581.7 | 590.7 | 512.7 | 667.2 | 1097.7 | 988.2 | 859.2 | 816.4 | 805.2 |
| 80° | 535.2 | 473.3 | 495.8 | 510.4 | 438.0 | 599.7 | 1035.4 | 925.9 | 804.0 | 825.4 | 809.7 |
| 82.5° | 343.1 | 304.9 | 402.0 | 416.7 | 364.9 | 530.7 | 967.6 | 860.3 | 726.0 | 659.3 | 643.5 |
| 85° | 175.1 | 193.1 | 299.3 | 317.3 | 281.3 | 435.8 | 885.4 | 773.7 | 637.9 | 548.7 | 557.7 |
| 87.5° | 98.3 | 132.0 | 190.9 | 213.4 | 198.8 | 335.3 | 718.2 | 637.9 | 520.5 | 423.4 | 372.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)