

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: P268557

Luminaire Tested: **GAN-AF-05-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25666.7 lumens
Efficiency: N/A
Efficacy: 92.0 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

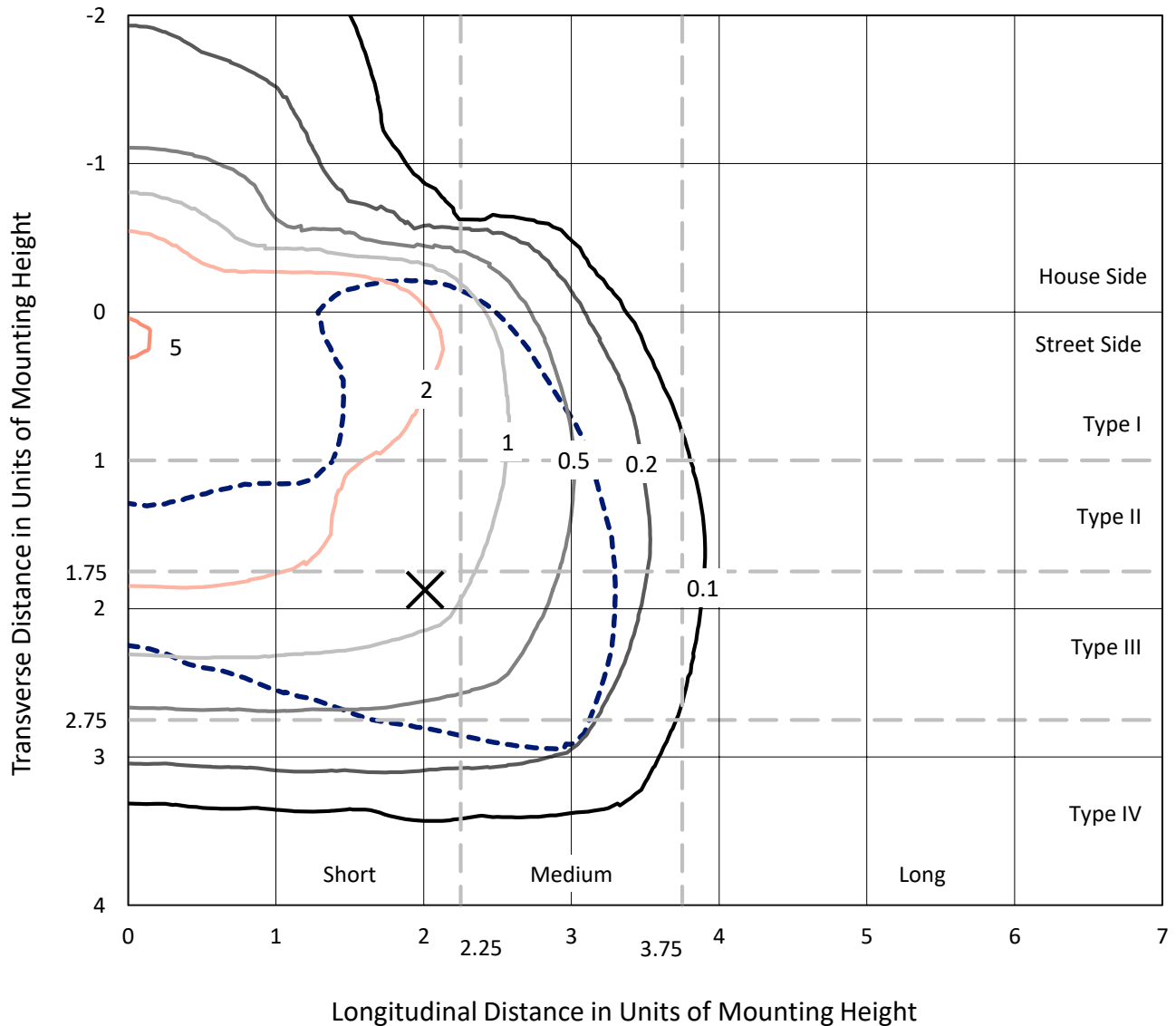
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

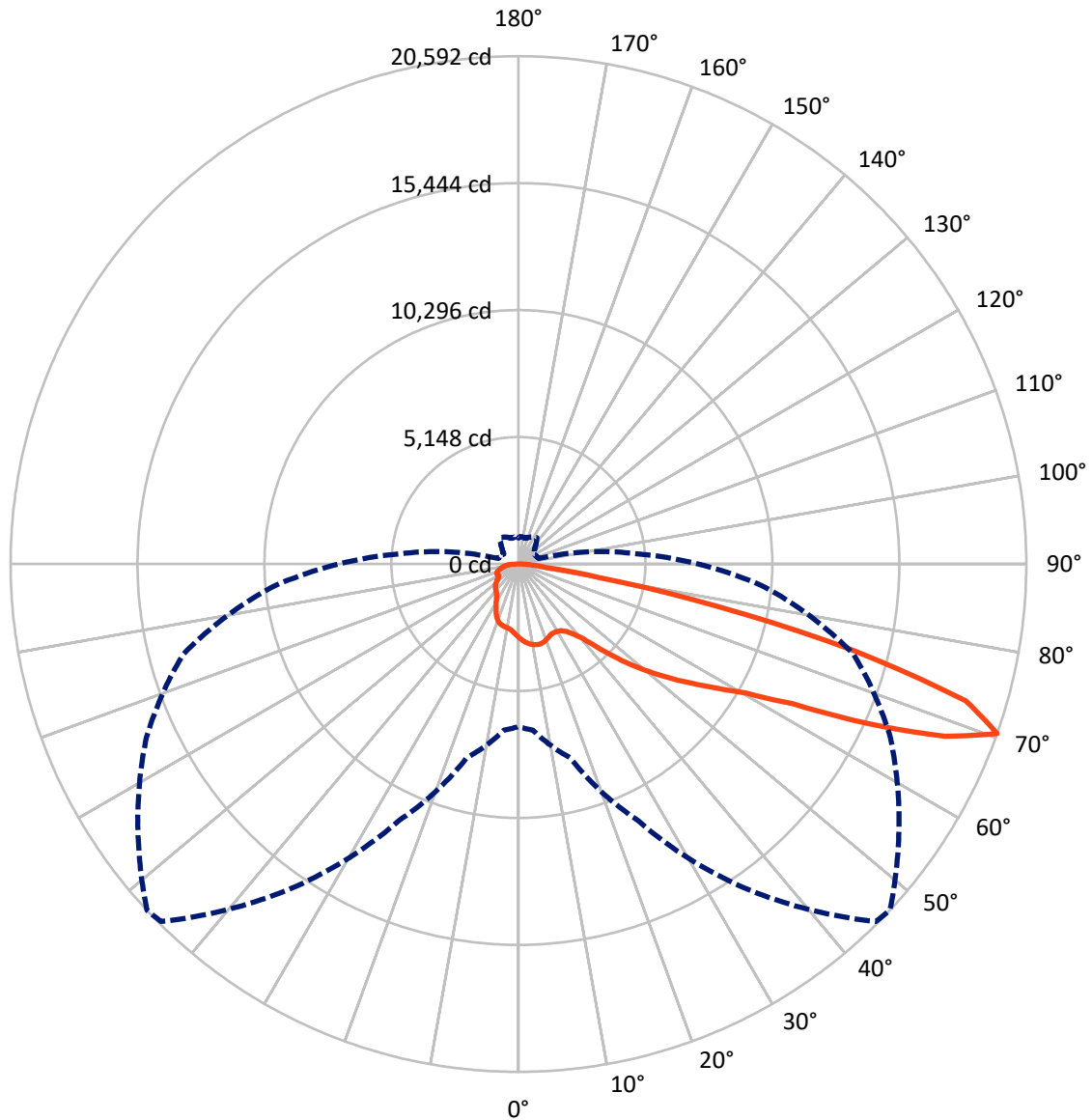
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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 | 5354.6 | 0.0 | 5354.6 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 20312.1 | 0.0 | 20312.1 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 25666.7 | 0.0 | 25666.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 285.4 | 1.1 |
| 10°-20° | 837.2 | 3.3 |
| 20°-30° | 1236.3 | 4.8 |
| 30°-40° | 1796.9 | 7.0 |
| 40°-50° | 3233.8 | 12.6 |
| 50°-60° | 5602.1 | 21.8 |
| 60°-70° | 7995.9 | 31.2 |
| 70°-80° | 4104.6 | 16.0 |
| 80°-90° | 574.7 | 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° | 25666.7 | 100.0 |
| 0°-180° | 25666.7 | 100.0 |

Coefficient of Utilization



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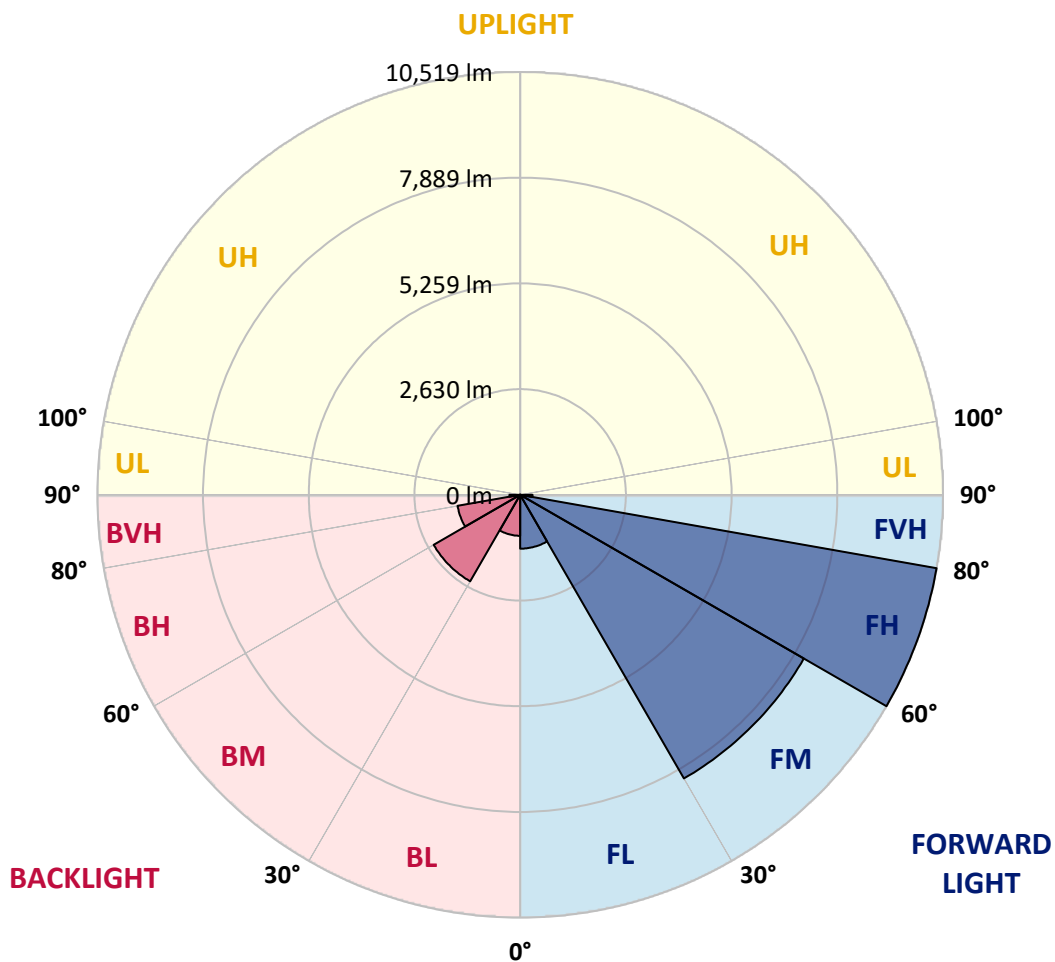
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1339.2 | 5.2 | | | |
| FM | (30°-60°) | 8147.3 | 31.7 | | | |
| FH | (60°-80°) | 10518.9 | 41.0 | | | G4/12000 |
| FVH | (80°-90°) | 306.7 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1019.5 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 2485.4 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 1581.6 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 268.0 | 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° | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 |
| 2.5° | 3153.0 | 3146.8 | 3144.2 | 3139.2 | 3133.0 | 3101.8 | 3095.5 | 3073.0 | 3041.8 | 3009.3 | 2975.6 |
| 5° | 3360.2 | 3359.0 | 3345.3 | 3320.2 | 3280.3 | 3211.6 | 3195.5 | 3140.5 | 3066.9 | 2995.6 | 2924.4 |
| 7.5° | 3542.6 | 3531.2 | 3505.0 | 3455.2 | 3385.3 | 3291.6 | 3269.1 | 3192.9 | 3091.7 | 2994.4 | 2898.2 |
| 10° | 3676.1 | 3669.9 | 3612.4 | 3543.9 | 3452.6 | 3349.1 | 3322.8 | 3237.9 | 3126.7 | 3003.2 | 2883.2 |
| 12.5° | 3752.3 | 3739.9 | 3673.7 | 3591.2 | 3482.5 | 3381.5 | 3355.3 | 3269.1 | 3144.2 | 3003.2 | 2862.0 |
| 15° | 3747.3 | 3738.6 | 3672.5 | 3582.5 | 3472.6 | 3383.9 | 3360.2 | 3274.1 | 3140.5 | 2990.6 | 2834.5 |
| 17.5° | 3647.5 | 3651.3 | 3594.9 | 3506.4 | 3416.4 | 3349.1 | 3327.9 | 3247.8 | 3115.5 | 2965.7 | 2802.1 |
| 20° | 3472.6 | 3490.2 | 3452.6 | 3373.9 | 3324.0 | 3277.8 | 3264.1 | 3196.7 | 3076.8 | 2929.5 | 2767.0 |
| 22.5° | 3297.8 | 3314.0 | 3299.0 | 3232.9 | 3225.4 | 3197.8 | 3190.4 | 3141.7 | 3043.1 | 2906.9 | 2745.8 |
| 25° | 3169.2 | 3184.2 | 3181.6 | 3124.2 | 3146.8 | 3145.4 | 3139.2 | 3115.5 | 3035.6 | 2906.9 | 2749.6 |
| 27.5° | 3134.2 | 3139.2 | 3134.2 | 3081.7 | 3112.9 | 3138.0 | 3133.0 | 3129.2 | 3058.1 | 2943.1 | 2797.1 |
| 30° | 3254.1 | 3246.7 | 3207.8 | 3101.8 | 3130.5 | 3165.4 | 3160.4 | 3162.9 | 3125.6 | 3038.1 | 2903.2 |
| 32.5° | 3732.4 | 3698.6 | 3576.2 | 3277.8 | 3201.6 | 3220.3 | 3222.8 | 3264.1 | 3270.3 | 3184.2 | 3068.0 |
| 35° | 4447.9 | 4410.4 | 4251.8 | 3749.9 | 3422.7 | 3357.8 | 3357.8 | 3420.1 | 3457.7 | 3393.9 | 3324.0 |
| 37.5° | 5205.8 | 5164.6 | 5079.6 | 4404.1 | 3887.1 | 3596.3 | 3589.9 | 3633.7 | 3687.5 | 3702.4 | 3719.9 |
| 40° | 6067.4 | 6023.8 | 6047.4 | 5138.3 | 4535.3 | 4009.6 | 3920.9 | 3889.8 | 4034.6 | 4130.6 | 4270.5 |
| 42.5° | 7010.2 | 6990.3 | 6999.0 | 5956.3 | 5273.2 | 4627.7 | 4501.5 | 4340.5 | 4515.3 | 4686.4 | 4979.8 |
| 45° | 7883.0 | 7900.6 | 7891.8 | 6831.6 | 6094.9 | 5381.8 | 5248.3 | 4936.0 | 5107.1 | 5400.6 | 5878.9 |
| 47.5° | 8647.3 | 8574.9 | 8687.1 | 7788.1 | 7015.1 | 6226.1 | 6061.1 | 5642.9 | 5816.4 | 6178.5 | 6987.6 |
| 50° | 9575.0 | 9565.1 | 9400.1 | 9064.3 | 8127.8 | 7073.9 | 6857.8 | 6373.4 | 6643.1 | 7146.2 | 8385.0 |
| 52.5° | 10550.2 | 10369.1 | 10218.1 | 10057.0 | 9307.8 | 7943.0 | 7678.3 | 7101.3 | 7614.6 | 8247.6 | 10088.2 |
| 55° | 10750.0 | 10668.9 | 10856.1 | 11127.1 | 10445.3 | 8845.8 | 8537.3 | 8014.0 | 8708.3 | 9506.4 | 12052.4 |
| 57.5° | 11177.2 | 11175.9 | 11563.0 | 12046.2 | 11616.6 | 9803.6 | 9492.6 | 9116.7 | 9938.4 | 10948.5 | 14137.7 |
| 60° | 11465.5 | 11546.6 | 12265.9 | 13203.6 | 12766.6 | 10909.8 | 10624.0 | 10389.2 | 11336.9 | 12560.6 | 16080.6 |
| 62.5° | 11616.6 | 11726.6 | 12708.0 | 13673.2 | 14392.5 | 12751.7 | 12465.7 | 12127.3 | 13187.5 | 14328.8 | 17217.0 |
| 65° | 10988.5 | 11204.6 | 12639.3 | 14079.0 | 15816.0 | 15737.2 | 15608.7 | 15014.4 | 15501.3 | 15726.1 | 16806.2 |
| 67.5° | 9250.3 | 9471.4 | 11142.0 | 13700.7 | 16832.4 | 18616.8 | 18644.3 | 17629.1 | 16924.8 | 15845.9 | 14130.2 |
| 70° | 6590.7 | 6764.1 | 8146.5 | 11486.7 | 16058.2 | 20498.7 | 20592.2 | 18834.0 | 16641.5 | 14052.8 | 9872.3 |
| 72.5° | 3129.2 | 3235.3 | 4543.9 | 7476.0 | 12742.9 | 18781.7 | 18962.7 | 17295.6 | 14150.2 | 10404.1 | 5385.6 |
| 75° | 1150.0 | 1182.4 | 1535.9 | 3180.4 | 7391.1 | 13850.5 | 14064.0 | 12398.2 | 9380.2 | 5179.5 | 2051.5 |
| 77.5° | 689.3 | 710.5 | 861.7 | 1342.3 | 2906.9 | 7916.8 | 8232.6 | 6742.9 | 4099.4 | 1928.0 | 1008.9 |
| 80° | 482.0 | 497.0 | 618.2 | 835.3 | 1373.6 | 3016.9 | 3297.8 | 2752.1 | 1633.3 | 1220.0 | 734.3 |
| 82.5° | 325.9 | 333.5 | 434.5 | 564.5 | 912.8 | 1077.6 | 1162.5 | 1223.8 | 1101.3 | 907.7 | 465.9 |
| 85° | 213.5 | 221.1 | 294.7 | 372.1 | 580.7 | 556.9 | 569.3 | 720.5 | 804.2 | 616.9 | 258.5 |
| 87.5° | 122.3 | 127.4 | 177.3 | 198.5 | 284.8 | 236.1 | 238.5 | 379.7 | 514.5 | 415.8 | 157.4 |
| 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-T4W-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 | 2978.2 |
| 2.5° | 2966.9 | 2950.7 | 2914.5 | 2892.0 | 2870.8 | 2865.8 | 2857.0 | 2855.7 | 2854.5 | 2854.5 | 2850.9 |
| 5° | 2900.7 | 2873.3 | 2817.1 | 2785.9 | 2759.7 | 2757.1 | 2755.9 | 2762.1 | 2764.7 | 2767.0 | 2763.4 |
| 7.5° | 2858.2 | 2820.8 | 2750.9 | 2706.0 | 2674.8 | 2667.2 | 2679.7 | 2708.4 | 2727.2 | 2734.6 | 2730.8 |
| 10° | 2832.0 | 2785.9 | 2704.6 | 2656.0 | 2629.8 | 2626.0 | 2642.3 | 2676.0 | 2714.7 | 2729.7 | 2728.4 |
| 12.5° | 2802.1 | 2749.6 | 2663.5 | 2612.4 | 2597.3 | 2604.7 | 2626.0 | 2657.2 | 2697.3 | 2720.8 | 2722.1 |
| 15° | 2772.1 | 2710.9 | 2622.2 | 2577.2 | 2571.0 | 2581.1 | 2601.0 | 2624.8 | 2656.0 | 2679.7 | 2682.2 |
| 17.5° | 2735.9 | 2672.2 | 2583.5 | 2537.4 | 2532.3 | 2537.4 | 2538.6 | 2551.0 | 2571.0 | 2593.5 | 2599.8 |
| 20° | 2697.3 | 2632.3 | 2539.9 | 2493.7 | 2471.1 | 2451.1 | 2428.7 | 2431.3 | 2437.5 | 2459.9 | 2464.9 |
| 22.5° | 2669.8 | 2604.7 | 2506.1 | 2442.4 | 2382.6 | 2322.6 | 2277.7 | 2271.4 | 2273.9 | 2292.7 | 2298.9 |
| 25° | 2672.2 | 2603.6 | 2497.4 | 2387.5 | 2256.5 | 2160.2 | 2100.2 | 2090.4 | 2089.1 | 2102.8 | 2111.6 |
| 27.5° | 2720.8 | 2652.2 | 2529.8 | 2331.3 | 2119.0 | 1976.7 | 1913.0 | 1905.6 | 1895.6 | 1899.2 | 1909.3 |
| 30° | 2829.5 | 2765.8 | 2608.5 | 2273.9 | 1970.4 | 1796.9 | 1730.7 | 1723.2 | 1709.5 | 1703.2 | 1710.7 |
| 32.5° | 3006.8 | 2954.4 | 2723.4 | 2219.0 | 1821.9 | 1643.3 | 1575.8 | 1559.5 | 1550.8 | 1543.4 | 1549.7 |
| 35° | 3301.5 | 3279.1 | 2877.0 | 2158.9 | 1690.7 | 1524.7 | 1463.5 | 1438.5 | 1426.0 | 1439.8 | 1449.8 |
| 37.5° | 3763.5 | 3776.0 | 3078.0 | 2065.4 | 1589.6 | 1446.0 | 1394.8 | 1366.1 | 1347.4 | 1358.5 | 1369.8 |
| 40° | 4417.9 | 4426.6 | 3300.4 | 1933.1 | 1502.1 | 1399.7 | 1344.9 | 1318.6 | 1292.4 | 1272.4 | 1271.2 |
| 42.5° | 5277.1 | 5188.3 | 3518.8 | 1789.3 | 1401.0 | 1371.1 | 1309.9 | 1277.4 | 1237.4 | 1182.4 | 1171.3 |
| 45° | 6296.0 | 5985.0 | 3684.8 | 1624.6 | 1287.5 | 1336.0 | 1271.2 | 1226.2 | 1163.8 | 1103.8 | 1097.5 |
| 47.5° | 7469.6 | 6840.4 | 3766.1 | 1453.5 | 1181.4 | 1284.9 | 1223.8 | 1152.5 | 1073.8 | 1043.9 | 1040.1 |
| 50° | 8903.2 | 7855.6 | 3804.9 | 1287.5 | 1088.8 | 1217.5 | 1155.0 | 1071.4 | 1005.3 | 998.9 | 995.2 |
| 52.5° | 10535.2 | 9076.7 | 3817.3 | 1151.3 | 1012.7 | 1130.1 | 1098.8 | 1017.7 | 965.3 | 970.2 | 970.2 |
| 55° | 12243.4 | 10338.0 | 3647.5 | 1052.6 | 942.9 | 1040.1 | 1061.3 | 996.5 | 952.7 | 972.8 | 980.2 |
| 57.5° | 13811.8 | 11455.5 | 3112.9 | 976.5 | 876.6 | 971.4 | 1047.7 | 1016.4 | 986.5 | 1067.6 | 1072.7 |
| 60° | 15015.6 | 12116.1 | 2325.1 | 907.7 | 827.9 | 947.7 | 1083.8 | 1092.6 | 1100.2 | 1293.6 | 1319.9 |
| 62.5° | 15267.9 | 11896.3 | 1598.4 | 854.1 | 805.4 | 967.7 | 1150.0 | 1151.3 | 1142.6 | 1277.4 | 1293.6 |
| 65° | 14110.2 | 10506.5 | 1162.5 | 824.1 | 786.6 | 1003.9 | 1206.2 | 1180.1 | 1122.6 | 1225.0 | 1194.9 |
| 67.5° | 11205.7 | 7915.4 | 967.7 | 801.6 | 759.2 | 1001.4 | 1266.3 | 1206.2 | 1111.4 | 1200.0 | 1151.3 |
| 70° | 7273.7 | 4786.3 | 861.7 | 783.0 | 726.8 | 954.0 | 1301.1 | 1203.8 | 1078.9 | 1116.4 | 1058.9 |
| 72.5° | 3548.8 | 2140.2 | 790.4 | 755.5 | 693.0 | 887.9 | 1299.8 | 1181.4 | 1045.2 | 1042.7 | 1011.4 |
| 75° | 1388.5 | 980.2 | 725.6 | 714.2 | 635.6 | 812.8 | 1265.0 | 1148.8 | 1005.3 | 965.3 | 954.0 |
| 77.5° | 812.8 | 699.3 | 643.0 | 653.1 | 566.9 | 738.0 | 1213.7 | 1092.6 | 950.2 | 902.7 | 890.3 |
| 80° | 591.9 | 523.3 | 548.1 | 564.5 | 484.5 | 663.0 | 1145.1 | 1023.9 | 889.1 | 912.8 | 895.3 |
| 82.5° | 379.7 | 337.1 | 444.5 | 460.8 | 403.2 | 587.0 | 1070.2 | 951.6 | 802.9 | 729.2 | 711.7 |
| 85° | 193.6 | 213.5 | 330.8 | 350.9 | 311.0 | 482.0 | 979.0 | 855.4 | 705.4 | 606.9 | 616.9 |
| 87.5° | 108.7 | 146.2 | 211.0 | 236.1 | 219.7 | 370.9 | 794.2 | 705.4 | 575.6 | 468.2 | 412.1 |
| 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)