

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: P191368

Luminaire Tested: **GAN-AF-10-LED-U-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47785.1 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

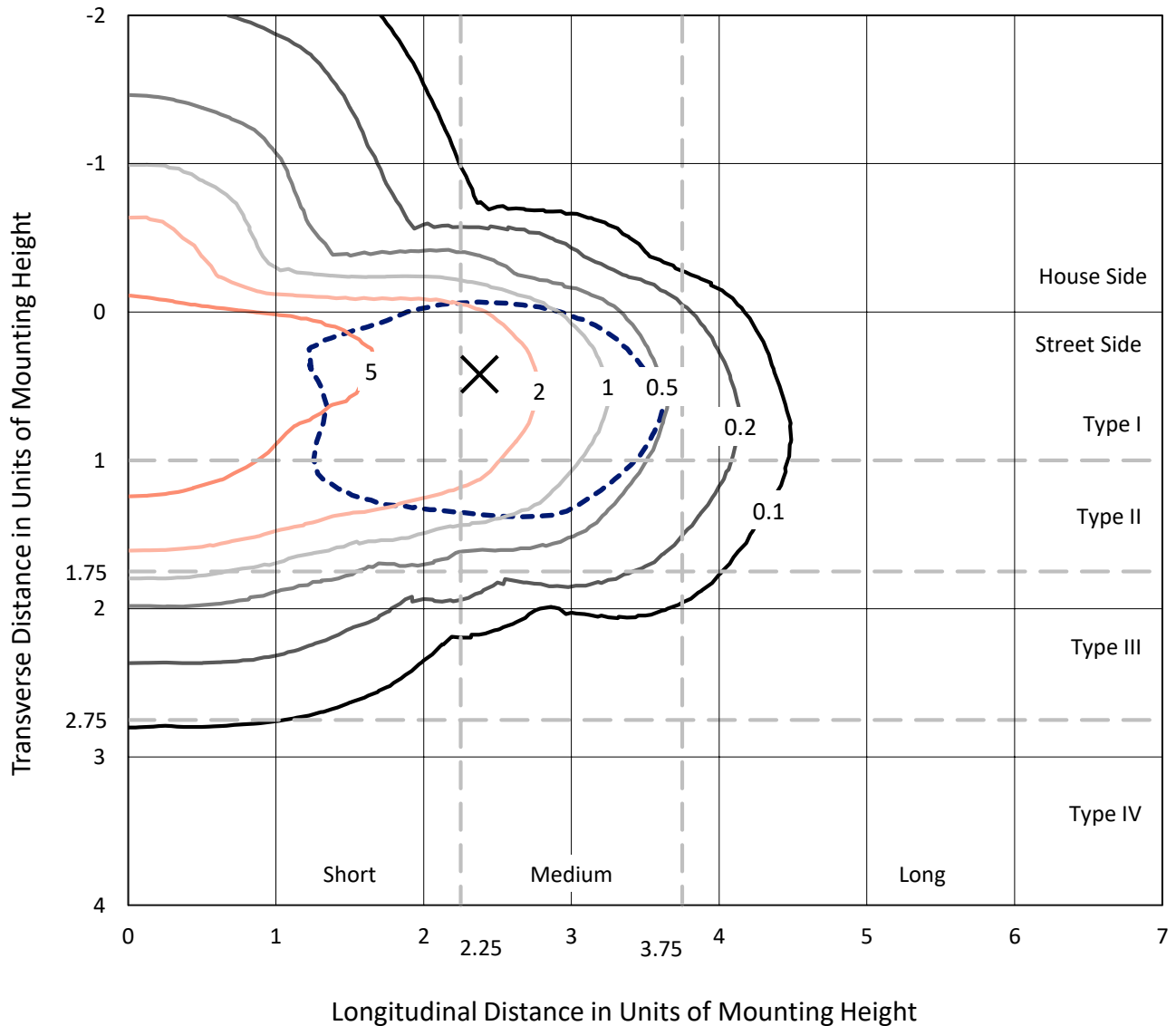
Input Watts (W): 419
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

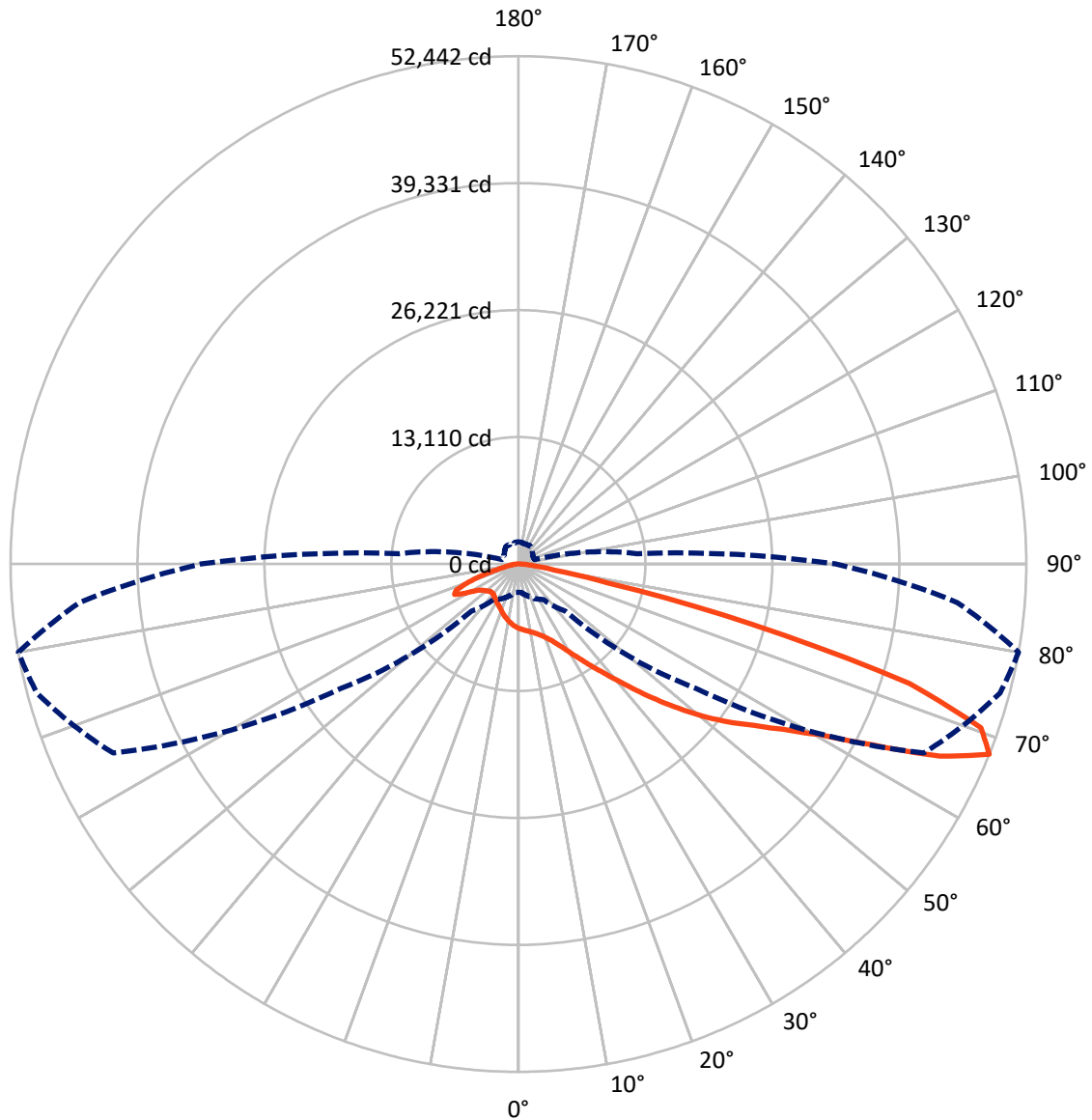


Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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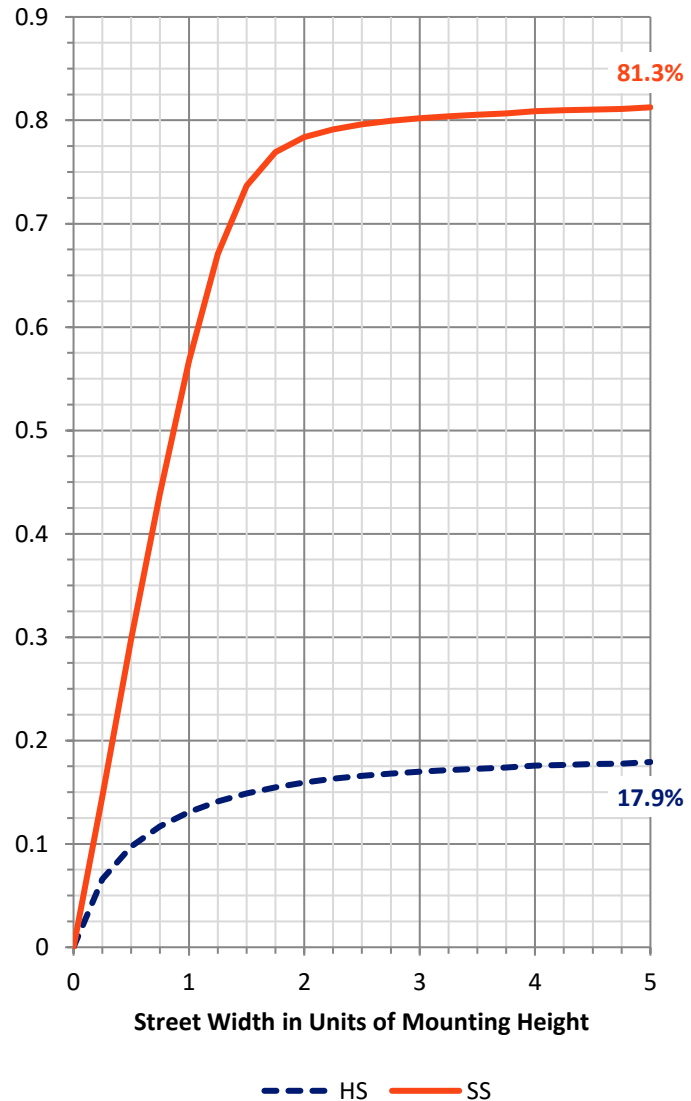
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8800.2 | 0.0 | 8800.2 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 38984.9 | 0.0 | 38984.9 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 47785.1 | 0.0 | 47785.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 612.4 | 1.3 |
| 10°-20° | 1764.1 | 3.7 |
| 20°-30° | 2920.0 | 6.1 |
| 30°-40° | 4776.4 | 10.0 |
| 40°-50° | 7712.0 | 16.1 |
| 50°-60° | 11133.8 | 23.3 |
| 60°-70° | 12286.9 | 25.7 |
| 70°-80° | 5663.5 | 11.9 |
| 80°-90° | 916.0 | 1.9 |
| 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° | 47785.1 | 100.0 |
| 0°-180° | 47785.1 | 100.0 |



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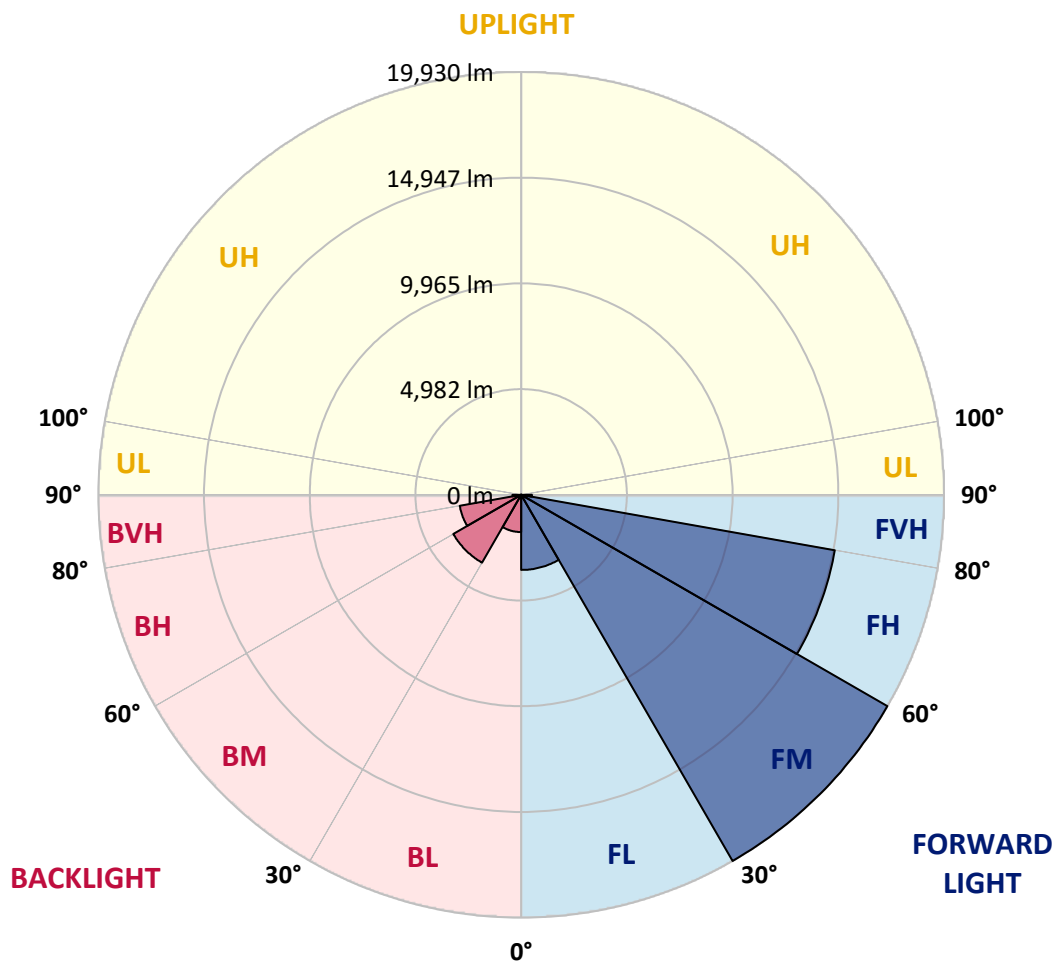
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3540.8 | 7.4 | | | |
| FM | (30°-60°) | 19929.9 | 41.7 | | | |
| FH | (60°-80°) | 15010.5 | 31.4 | | | G5 |
| FVH | (80°-90°) | 503.6 | 1.1 | | | G4/750 |
| BL | (0°-30°) | 1755.8 | 3.7 | B3/2500 | | |
| BM | (30°-60°) | 3692.2 | 7.7 | B3/5000 | | |
| BH | (60°-80°) | 2939.8 | 6.2 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 412.4 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 |
| 2.5° | 7262.1 | 7219.8 | 7226.8 | 7215.1 | 7179.8 | 7118.6 | 7052.7 | 6932.8 | 6808.1 | 6742.3 | 6690.5 |
| 5° | 7869.0 | 7857.3 | 7840.8 | 7803.3 | 7713.9 | 7586.8 | 7429.2 | 7217.4 | 6989.3 | 6869.3 | 6754.0 |
| 7.5° | 8323.1 | 8316.1 | 8294.9 | 8271.4 | 8184.3 | 8031.4 | 7793.9 | 7492.7 | 7161.0 | 6996.4 | 6817.6 |
| 10° | 8360.8 | 8372.5 | 8389.0 | 8452.5 | 8464.3 | 8382.0 | 8139.6 | 7775.0 | 7339.8 | 7128.0 | 6899.9 |
| 12.5° | 8040.8 | 8066.7 | 8130.2 | 8292.6 | 8464.3 | 8565.5 | 8440.8 | 8071.4 | 7549.2 | 7292.7 | 7003.4 |
| 15° | 7617.4 | 7631.5 | 7709.2 | 7932.6 | 8240.8 | 8553.7 | 8671.2 | 8398.4 | 7819.7 | 7504.5 | 7158.6 |
| 17.5° | 7436.2 | 7443.3 | 7497.4 | 7645.6 | 7932.6 | 8379.6 | 8800.7 | 8753.6 | 8151.4 | 7768.0 | 7349.2 |
| 20° | 7344.5 | 7360.9 | 7438.6 | 7584.5 | 7765.6 | 8156.1 | 8819.5 | 9137.1 | 8546.7 | 8097.3 | 7589.2 |
| 22.5° | 7605.6 | 7598.6 | 7626.8 | 7699.8 | 7852.6 | 8087.9 | 8805.4 | 9532.3 | 9050.0 | 8520.8 | 7902.0 |
| 25° | 8214.9 | 8240.8 | 8191.4 | 8109.0 | 8158.4 | 8323.1 | 8880.6 | 9960.5 | 9680.5 | 9064.2 | 8311.4 |
| 27.5° | 9083.0 | 9057.1 | 8984.2 | 8791.2 | 8690.1 | 8760.7 | 9130.0 | 10421.5 | 10463.9 | 9779.3 | 8852.4 |
| 30° | 9948.7 | 9927.5 | 9856.9 | 9621.7 | 9414.7 | 9355.9 | 9614.6 | 10950.9 | 11397.8 | 10638.0 | 9515.8 |
| 32.5° | 10847.4 | 10823.8 | 10758.0 | 10522.7 | 10273.4 | 10136.9 | 10303.9 | 11562.5 | 12498.8 | 11663.7 | 10296.9 |
| 35° | 11955.3 | 11910.7 | 11771.9 | 11444.9 | 11200.2 | 11094.4 | 11172.0 | 12331.8 | 13769.1 | 12877.5 | 11244.9 |
| 37.5° | 12997.5 | 13065.7 | 12924.6 | 12472.9 | 12155.3 | 12117.7 | 12204.7 | 13270.4 | 15138.3 | 14235.0 | 12334.1 |
| 40° | 14044.4 | 14056.2 | 13929.1 | 13559.8 | 13232.8 | 13171.6 | 13390.4 | 14409.1 | 16754.5 | 15858.2 | 13658.5 |
| 42.5° | 15126.6 | 15150.1 | 14936.0 | 14594.8 | 14355.0 | 14366.7 | 14616.0 | 15742.9 | 18608.2 | 17770.7 | 15183.0 |
| 45° | 16408.6 | 16443.9 | 16208.7 | 15761.7 | 15542.9 | 15982.9 | 15879.4 | 17239.1 | 20640.8 | 19944.5 | 16933.2 |
| 47.5° | 17749.5 | 17803.6 | 17624.9 | 17206.1 | 16933.2 | 17537.9 | 17142.6 | 18897.6 | 22828.6 | 22275.8 | 18855.2 |
| 50° | 18481.2 | 18558.8 | 18732.9 | 18702.3 | 18643.5 | 18542.3 | 18551.7 | 20676.1 | 25084.7 | 24703.5 | 20831.4 |
| 52.5° | 18088.3 | 18086.0 | 18721.1 | 19492.7 | 20316.1 | 20377.3 | 20269.1 | 22551.1 | 27192.5 | 27077.2 | 22692.1 |
| 55° | 16291.0 | 16413.3 | 17375.5 | 18869.4 | 21118.3 | 22522.8 | 22842.7 | 24698.8 | 29262.6 | 29396.7 | 24581.2 |
| 57.5° | 13298.7 | 13399.8 | 14698.4 | 16780.4 | 20036.2 | 23797.8 | 26503.2 | 27820.6 | 31577.6 | 32203.3 | 27096.0 |
| 60° | 9019.5 | 9141.8 | 10518.0 | 13018.7 | 17123.8 | 23087.4 | 29987.3 | 33391.3 | 34348.7 | 35772.1 | 30624.8 |
| 62.5° | 5300.2 | 5410.7 | 6532.9 | 8212.6 | 12056.5 | 19786.8 | 31516.4 | 41316.9 | 38750.3 | 41156.9 | 36007.3 |
| 65° | 3648.8 | 3724.0 | 4269.8 | 5112.0 | 6928.1 | 13326.9 | 29620.3 | 46788.7 | 45523.2 | 47828.6 | 42248.5 |
| 67.5° | 2935.9 | 2926.5 | 3359.4 | 3933.3 | 4460.4 | 6871.7 | 22398.1 | 46170.1 | 51479.7 | 52441.8 | 45487.9 |
| 70° | 2418.4 | 2408.9 | 2703.0 | 3178.2 | 3564.1 | 3869.8 | 12200.0 | 38962.0 | 50265.8 | 50656.3 | 42504.8 |
| 72.5° | 2023.2 | 2032.6 | 2220.7 | 2573.6 | 2924.1 | 2914.7 | 5361.3 | 27408.9 | 39543.1 | 42243.8 | 33883.0 |
| 75° | 1707.9 | 1712.6 | 1837.3 | 2086.6 | 2373.7 | 2347.8 | 2907.6 | 14848.9 | 22986.2 | 24865.9 | 18782.3 |
| 77.5° | 1453.8 | 1458.5 | 1538.5 | 1677.3 | 1882.0 | 1872.6 | 2121.9 | 6415.2 | 9588.7 | 9471.2 | 6424.6 |
| 80° | 1296.2 | 1296.2 | 1333.8 | 1359.7 | 1472.6 | 1430.3 | 1573.8 | 3081.7 | 4053.3 | 3742.8 | 2564.2 |
| 82.5° | 1016.3 | 1021.0 | 1251.5 | 1242.1 | 1159.8 | 1105.7 | 1105.7 | 1816.1 | 2147.8 | 1985.5 | 1500.9 |
| 85° | 571.6 | 569.3 | 806.9 | 974.0 | 1021.0 | 778.7 | 771.6 | 1016.3 | 1169.2 | 1030.4 | 726.9 |
| 87.5° | 244.7 | 249.4 | 374.1 | 432.8 | 578.7 | 484.6 | 477.5 | 524.6 | 595.2 | 515.2 | 336.4 |
| 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-10-LED-U-T2-800

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 | 6638.7 |
| 2.5° | 6641.1 | 6579.9 | 6445.8 | 6278.8 | 6128.3 | 6029.5 | 5940.1 | 5810.7 | 5817.7 | 5728.3 | 5662.4 |
| 5° | 6636.4 | 6509.3 | 6198.8 | 5829.5 | 5474.2 | 5217.9 | 5024.9 | 4850.8 | 4808.5 | 4726.1 | 4676.7 |
| 7.5° | 6641.1 | 6434.1 | 5911.8 | 5321.4 | 4881.4 | 4556.7 | 4392.1 | 4300.4 | 4279.2 | 4251.0 | 4253.3 |
| 10° | 6657.6 | 6365.8 | 5596.6 | 4846.1 | 4385.1 | 4171.0 | 4131.0 | 4159.2 | 4192.2 | 4201.6 | 4203.9 |
| 12.5° | 6695.2 | 6304.7 | 5250.8 | 4422.7 | 4074.5 | 4008.6 | 4076.9 | 4173.3 | 4236.9 | 4267.4 | 4265.1 |
| 15° | 6779.9 | 6257.6 | 4919.1 | 4091.0 | 3902.8 | 3938.1 | 4065.1 | 4201.6 | 4293.3 | 4335.7 | 4338.0 |
| 17.5° | 6871.7 | 6189.4 | 4577.9 | 3836.9 | 3775.7 | 3865.1 | 4022.8 | 4182.7 | 4295.7 | 4342.7 | 4352.1 |
| 20° | 6991.7 | 6104.8 | 4220.4 | 3646.4 | 3655.8 | 3756.9 | 3905.1 | 4065.1 | 4189.8 | 4229.8 | 4248.6 |
| 22.5° | 7149.2 | 6013.0 | 3907.5 | 3491.1 | 3519.4 | 3597.0 | 3712.2 | 3851.0 | 3959.2 | 3978.1 | 3994.5 |
| 25° | 7360.9 | 5914.2 | 3658.2 | 3350.0 | 3361.7 | 3406.4 | 3484.1 | 3566.4 | 3641.7 | 3620.5 | 3637.0 |
| 27.5° | 7645.6 | 5829.5 | 3472.3 | 3220.6 | 3199.4 | 3208.8 | 3248.8 | 3274.7 | 3314.7 | 3255.8 | 3262.9 |
| 30° | 7979.6 | 5737.7 | 3328.8 | 3107.6 | 3048.8 | 3032.3 | 3041.7 | 3055.9 | 3086.4 | 3006.5 | 2994.7 |
| 32.5° | 8367.8 | 5627.2 | 3194.7 | 3008.8 | 2926.5 | 2893.5 | 2898.2 | 2935.9 | 3053.5 | 3004.1 | 2978.2 |
| 35° | 8819.5 | 5502.5 | 3053.5 | 2900.6 | 2844.2 | 2797.2 | 2792.5 | 2910.0 | 3260.6 | 3230.0 | 3206.4 |
| 37.5° | 9348.8 | 5377.8 | 2912.3 | 2778.3 | 2783.0 | 2731.3 | 2714.8 | 2848.9 | 3300.6 | 3180.6 | 3164.1 |
| 40° | 10021.6 | 5312.0 | 2792.5 | 2648.9 | 2707.8 | 2700.7 | 2667.8 | 2736.0 | 3037.0 | 2818.3 | 2790.1 |
| 42.5° | 10854.4 | 5321.4 | 2703.0 | 2510.1 | 2618.3 | 2693.6 | 2641.9 | 2644.2 | 2752.5 | 2587.8 | 2561.9 |
| 45° | 11882.5 | 5431.9 | 2639.5 | 2399.5 | 2517.2 | 2686.6 | 2632.5 | 2594.8 | 2604.2 | 2517.2 | 2503.1 |
| 47.5° | 13082.2 | 5660.1 | 2594.8 | 2307.8 | 2420.7 | 2660.7 | 2630.1 | 2580.7 | 2559.5 | 2512.5 | 2500.7 |
| 50° | 14416.1 | 5991.8 | 2561.9 | 2220.7 | 2333.7 | 2618.3 | 2632.5 | 2566.6 | 2543.1 | 2524.2 | 2517.2 |
| 52.5° | 15726.4 | 6370.5 | 2512.5 | 2145.4 | 2265.4 | 2566.6 | 2639.5 | 2552.5 | 2526.6 | 2512.5 | 2505.4 |
| 55° | 17187.3 | 6843.4 | 2437.2 | 2081.9 | 2209.0 | 2500.7 | 2639.5 | 2531.3 | 2503.1 | 2505.4 | 2503.1 |
| 57.5° | 19161.1 | 7608.0 | 2347.8 | 2027.9 | 2140.7 | 2420.7 | 2594.8 | 2507.8 | 2472.5 | 2474.8 | 2477.2 |
| 60° | 22245.2 | 8955.9 | 2239.5 | 1973.8 | 2056.1 | 2326.6 | 2533.6 | 2456.0 | 2420.7 | 2430.1 | 2432.5 |
| 62.5° | 26780.8 | 10934.4 | 2098.4 | 1893.8 | 1966.7 | 2225.4 | 2448.9 | 2390.1 | 2354.8 | 2378.4 | 2378.4 |
| 65° | 31495.2 | 12680.0 | 1924.4 | 1792.6 | 1872.6 | 2114.8 | 2343.1 | 2307.8 | 2272.5 | 2326.6 | 2324.2 |
| 67.5° | 32763.2 | 12289.4 | 1750.3 | 1682.0 | 1778.5 | 1992.6 | 2216.0 | 2197.2 | 2178.4 | 2272.5 | 2267.8 |
| 70° | 29105.1 | 9866.4 | 1590.3 | 1569.1 | 1675.0 | 1860.8 | 2079.6 | 2079.6 | 2067.8 | 2138.4 | 2121.9 |
| 72.5° | 22174.6 | 6996.4 | 1437.3 | 1449.1 | 1557.3 | 1717.3 | 1931.4 | 1947.9 | 1929.1 | 1964.4 | 1950.3 |
| 75° | 11870.7 | 4003.9 | 1284.4 | 1317.4 | 1411.5 | 1571.5 | 1766.7 | 1783.2 | 1771.4 | 1769.1 | 1776.1 |
| 77.5° | 3945.1 | 1957.3 | 1124.5 | 1176.3 | 1258.5 | 1420.9 | 1595.0 | 1620.9 | 1592.6 | 1587.9 | 1585.6 |
| 80° | 1757.3 | 1230.4 | 948.1 | 1016.3 | 1089.2 | 1249.1 | 1413.8 | 1435.0 | 1404.4 | 1446.8 | 1392.6 |
| 82.5° | 1129.2 | 809.3 | 759.8 | 835.1 | 905.7 | 1077.5 | 1232.8 | 1237.4 | 1209.2 | 1404.4 | 1197.5 |
| 85° | 548.1 | 501.0 | 571.6 | 639.9 | 701.0 | 846.9 | 1021.0 | 1023.4 | 952.8 | 868.1 | 837.5 |
| 87.5° | 272.9 | 291.7 | 381.2 | 442.2 | 472.8 | 581.0 | 743.4 | 729.3 | 698.7 | 635.2 | 585.7 |
| 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)