

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: P192209

Luminaire Tested: **GAN-AF-01-LED-U-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T2R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6493 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

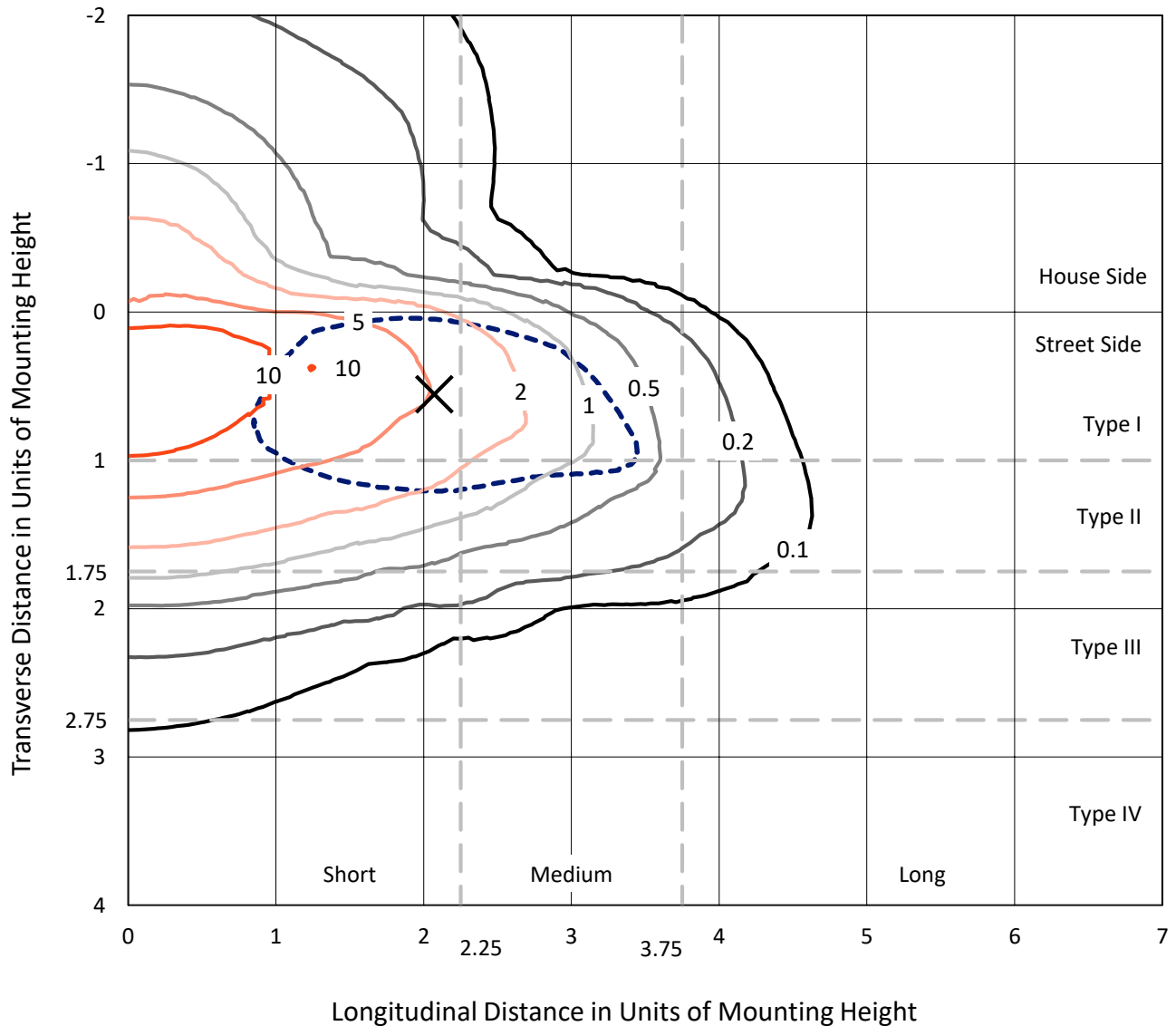
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

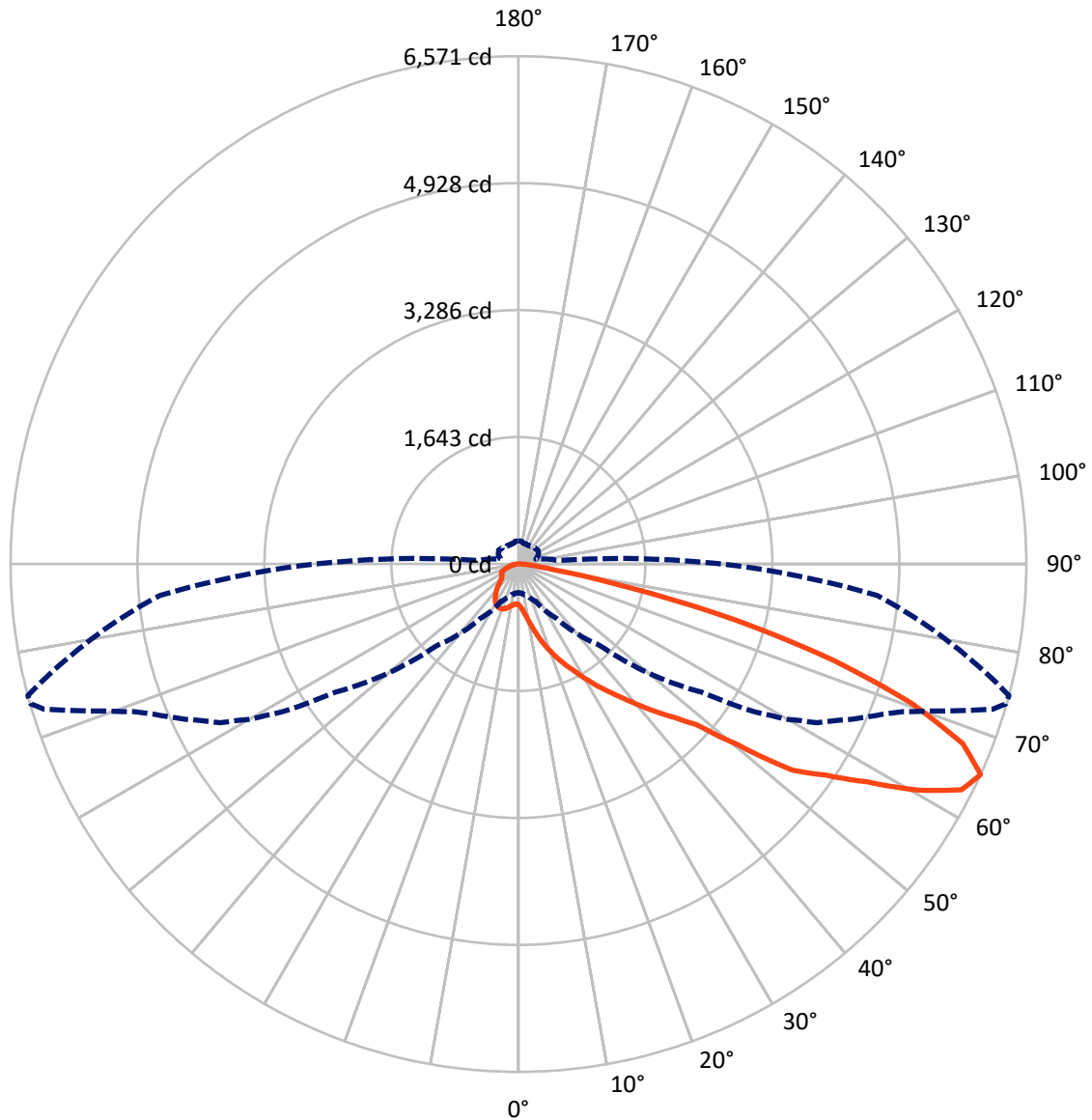
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1001.1 | 0.0 | 1001.1 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 5491.9 | 0.0 | 5491.9 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 6493.0 | 0.0 | 6493.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.2 | 1.0 |
| 10°-20° | 254.8 | 3.9 |
| 20°-30° | 522.9 | 8.1 |
| 30°-40° | 879.7 | 13.5 |
| 40°-50° | 1215.5 | 18.7 |
| 50°-60° | 1517.3 | 23.4 |
| 60°-70° | 1365.4 | 21.0 |
| 70°-80° | 572.3 | 8.8 |
| 80°-90° | 100.0 | 1.5 |
| 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° | 6493.0 | 100.0 |
| 0°-180° | 6493.0 | 100.0 |

Coefficient of Utilization



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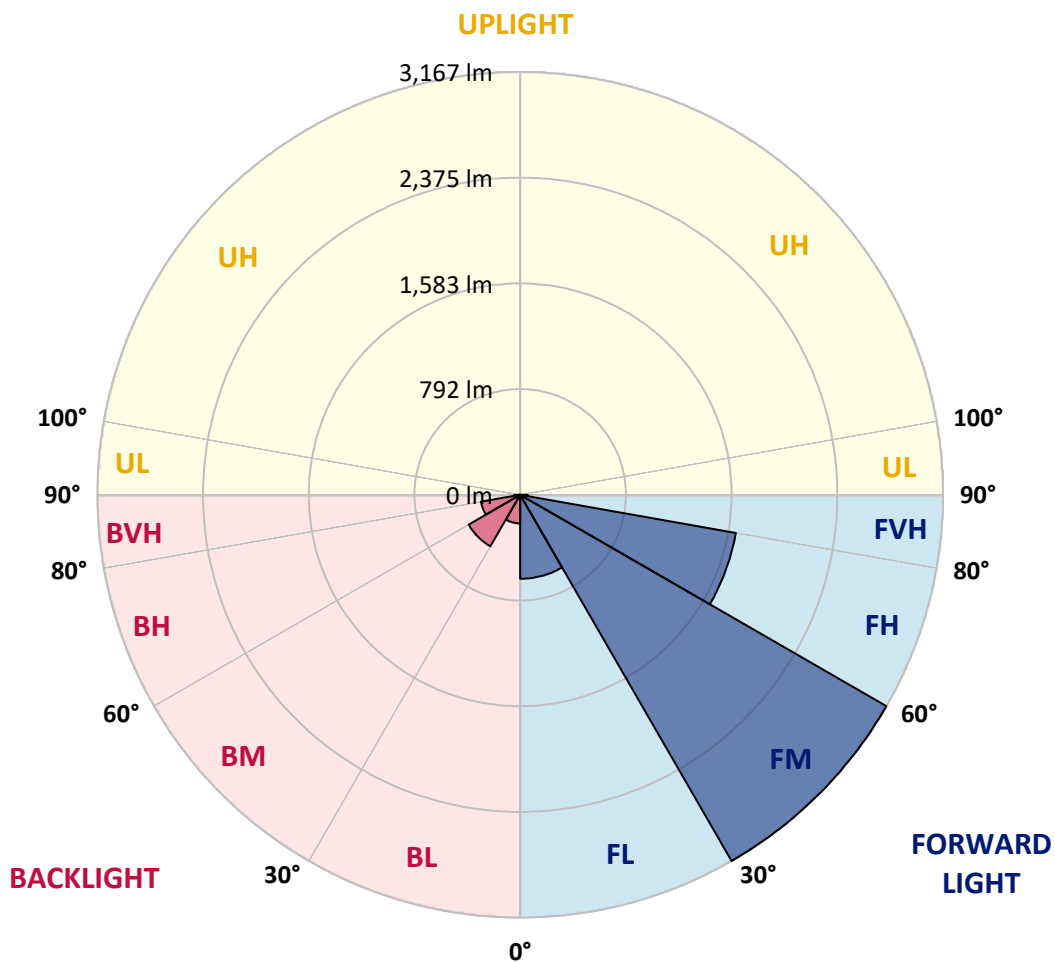
CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 628.8 | 9.7 | | | |
| FM (30°-60°) | 3166.8 | 48.8 | | | |
| FH (60°-80°) | 1640.1 | 25.3 | | | G1/1800 |
| FVH (80°-90°) | 56.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 214.1 | 3.3 | B1/500 | | |
| BM (30°-60°) | 445.6 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 297.6 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 43.8 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 |
| 2.5° | 670.0 | 662.6 | 664.4 | 652.1 | 637.1 | 617.4 | 595.6 | 595.3 | 595.6 | 593.4 | 585.5 |
| 5° | 929.0 | 920.1 | 916.8 | 889.1 | 848.5 | 790.8 | 728.1 | 721.3 | 718.5 | 711.5 | 695.2 |
| 7.5° | 1118.1 | 1113.1 | 1107.9 | 1087.0 | 1050.1 | 985.6 | 901.4 | 886.9 | 873.1 | 869.7 | 851.3 |
| 10° | 1240.1 | 1238.8 | 1227.8 | 1222.2 | 1199.2 | 1143.3 | 1061.2 | 1047.4 | 1032.3 | 1027.1 | 1007.7 |
| 12.5° | 1336.6 | 1336.3 | 1331.0 | 1332.6 | 1312.6 | 1272.0 | 1201.3 | 1188.7 | 1177.7 | 1161.7 | 1147.9 |
| 15° | 1403.3 | 1403.6 | 1411.2 | 1419.9 | 1416.8 | 1389.4 | 1323.0 | 1317.5 | 1308.0 | 1296.9 | 1280.6 |
| 17.5° | 1458.0 | 1459.5 | 1467.5 | 1483.2 | 1500.1 | 1497.9 | 1445.4 | 1440.7 | 1432.5 | 1417.4 | 1408.8 |
| 20° | 1581.5 | 1587.3 | 1572.0 | 1572.0 | 1573.8 | 1582.1 | 1556.9 | 1553.2 | 1541.6 | 1533.6 | 1526.8 |
| 22.5° | 1790.2 | 1796.9 | 1762.2 | 1726.9 | 1692.1 | 1666.9 | 1641.7 | 1646.4 | 1638.4 | 1632.8 | 1628.8 |
| 25° | 2061.2 | 2066.5 | 2010.2 | 1950.6 | 1879.9 | 1787.7 | 1725.3 | 1722.6 | 1718.3 | 1714.9 | 1713.0 |
| 27.5° | 2316.3 | 2318.5 | 2265.3 | 2178.0 | 2096.0 | 1963.5 | 1810.2 | 1806.8 | 1801.6 | 1795.1 | 1789.6 |
| 30° | 2534.5 | 2533.9 | 2479.2 | 2395.9 | 2308.0 | 2161.4 | 1938.9 | 1928.5 | 1913.1 | 1895.6 | 1882.1 |
| 32.5° | 2723.5 | 2722.6 | 2662.7 | 2576.3 | 2484.1 | 2357.5 | 2115.3 | 2093.8 | 2069.8 | 2035.7 | 2015.1 |
| 35° | 2872.3 | 2871.7 | 2815.1 | 2725.1 | 2619.3 | 2542.2 | 2317.6 | 2291.1 | 2260.7 | 2214.9 | 2183.3 |
| 37.5° | 2928.5 | 2928.5 | 2896.9 | 2835.4 | 2742.0 | 2689.1 | 2542.2 | 2510.2 | 2477.7 | 2425.7 | 2390.1 |
| 40° | 2895.6 | 2896.2 | 2903.0 | 2891.6 | 2846.2 | 2805.6 | 2751.8 | 2732.8 | 2704.8 | 2658.1 | 2620.9 |
| 42.5° | 2785.3 | 2788.7 | 2833.6 | 2888.6 | 2911.3 | 2904.9 | 2937.7 | 2929.1 | 2909.5 | 2873.5 | 2844.0 |
| 45° | 2645.5 | 2655.9 | 2705.1 | 2809.0 | 2929.4 | 2990.6 | 3093.6 | 3094.5 | 3090.8 | 3071.4 | 3048.7 |
| 47.5° | 2453.4 | 2468.1 | 2533.0 | 2673.4 | 2887.0 | 3073.9 | 3251.8 | 3260.1 | 3267.8 | 3255.2 | 3244.8 |
| 50° | 2198.3 | 2215.8 | 2312.9 | 2499.2 | 2800.7 | 3160.2 | 3550.9 | 3588.3 | 3623.4 | 3619.1 | 3626.2 |
| 52.5° | 1925.1 | 1945.7 | 2064.6 | 2272.1 | 2652.2 | 3180.2 | 3742.0 | 3803.2 | 3864.3 | 3914.4 | 3967.6 |
| 55° | 1678.6 | 1667.6 | 1786.5 | 2005.0 | 2408.2 | 3090.2 | 3913.8 | 3987.6 | 4055.8 | 4117.3 | 4180.6 |
| 57.5° | 1344.6 | 1362.7 | 1481.9 | 1698.0 | 2085.2 | 2836.0 | 4032.1 | 4140.0 | 4238.0 | 4339.8 | 4429.5 |
| 60° | 982.8 | 1001.0 | 1130.3 | 1349.8 | 1734.6 | 2450.6 | 3941.8 | 4105.3 | 4262.3 | 4418.1 | 4539.8 |
| 62.5° | 593.4 | 607.0 | 721.0 | 930.0 | 1337.5 | 1993.6 | 3539.2 | 3753.7 | 3984.8 | 4171.0 | 4357.6 |
| 65° | 369.4 | 377.1 | 419.2 | 534.1 | 859.0 | 1488.4 | 2891.6 | 3125.5 | 3374.5 | 3610.8 | 3804.7 |
| 67.5° | 302.4 | 305.2 | 312.9 | 337.4 | 471.7 | 970.5 | 2152.2 | 2359.3 | 2584.0 | 2812.7 | 3028.4 |
| 70° | 272.0 | 270.1 | 270.1 | 271.7 | 302.4 | 521.8 | 1409.1 | 1544.0 | 1731.2 | 1930.0 | 2127.3 |
| 72.5° | 245.6 | 243.7 | 240.3 | 235.7 | 246.8 | 318.4 | 728.4 | 830.1 | 965.0 | 1141.7 | 1330.7 |
| 75° | 220.7 | 218.2 | 214.2 | 208.4 | 216.1 | 240.3 | 349.7 | 392.5 | 458.2 | 552.3 | 657.7 |
| 77.5° | 194.8 | 191.8 | 188.1 | 183.8 | 193.6 | 186.9 | 205.0 | 220.4 | 245.6 | 275.7 | 315.3 |
| 80° | 165.6 | 162.9 | 161.7 | 159.5 | 171.2 | 142.3 | 144.8 | 154.3 | 169.0 | 185.3 | 203.8 |
| 82.5° | 129.7 | 129.7 | 134.6 | 135.5 | 148.4 | 102.3 | 108.2 | 116.5 | 124.2 | 132.8 | 141.4 |
| 85° | 85.4 | 86.1 | 102.6 | 109.1 | 117.1 | 68.8 | 81.1 | 83.9 | 90.0 | 95.0 | 98.7 |
| 87.5° | 26.7 | 28.9 | 62.7 | 69.5 | 67.3 | 39.0 | 49.8 | 51.0 | 55.3 | 58.7 | 61.8 |
| 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-01-LED-U-T2R-7050

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 |
| 2.5° | 585.5 | 581.8 | 578.4 | 578.1 | 575.6 | 572.2 | 573.5 | 568.2 | 568.6 | 565.8 | 562.7 |
| 5° | 688.4 | 686.0 | 673.7 | 670.3 | 661.1 | 655.2 | 654.3 | 642.0 | 640.5 | 633.4 | 625.7 |
| 7.5° | 836.5 | 828.6 | 811.3 | 803.0 | 787.4 | 775.7 | 770.2 | 753.9 | 745.9 | 727.4 | 719.1 |
| 10° | 991.7 | 981.6 | 960.4 | 948.7 | 933.7 | 914.9 | 904.8 | 881.1 | 871.9 | 855.0 | 834.7 |
| 12.5° | 1135.6 | 1125.4 | 1103.6 | 1094.7 | 1074.7 | 1054.7 | 1043.7 | 1016.9 | 1005.0 | 977.9 | 961.9 |
| 15° | 1268.6 | 1258.5 | 1239.4 | 1230.2 | 1210.3 | 1194.0 | 1179.2 | 1152.8 | 1138.6 | 1113.4 | 1092.5 |
| 17.5° | 1397.7 | 1387.0 | 1370.4 | 1362.1 | 1342.7 | 1326.1 | 1310.1 | 1285.2 | 1270.8 | 1245.6 | 1226.8 |
| 20° | 1517.6 | 1509.6 | 1497.6 | 1486.5 | 1467.2 | 1452.1 | 1433.1 | 1411.6 | 1390.7 | 1372.2 | 1354.4 |
| 22.5° | 1622.1 | 1619.0 | 1606.1 | 1601.2 | 1584.6 | 1571.7 | 1555.1 | 1533.9 | 1518.8 | 1495.5 | 1478.9 |
| 25° | 1712.1 | 1711.2 | 1705.1 | 1703.5 | 1691.8 | 1679.5 | 1675.9 | 1658.3 | 1644.5 | 1623.9 | 1606.7 |
| 27.5° | 1789.6 | 1790.5 | 1789.0 | 1793.3 | 1790.2 | 1784.6 | 1785.0 | 1779.1 | 1771.1 | 1753.9 | 1738.9 |
| 30° | 1875.6 | 1870.7 | 1873.5 | 1879.6 | 1881.5 | 1882.1 | 1892.2 | 1895.6 | 1895.0 | 1883.6 | 1876.2 |
| 32.5° | 1997.3 | 1985.6 | 1974.9 | 1974.0 | 1980.1 | 1982.6 | 1999.8 | 2008.7 | 2016.4 | 2019.1 | 2020.4 |
| 35° | 2152.5 | 2129.2 | 2106.7 | 2094.7 | 2084.3 | 2087.1 | 2099.4 | 2113.8 | 2130.7 | 2142.4 | 2156.2 |
| 37.5° | 2348.0 | 2319.4 | 2279.8 | 2251.5 | 2244.4 | 2229.0 | 2237.0 | 2248.4 | 2265.0 | 2283.1 | 2307.1 |
| 40° | 2584.9 | 2541.6 | 2497.0 | 2459.5 | 2439.3 | 2411.0 | 2410.7 | 2408.5 | 2418.7 | 2435.6 | 2469.4 |
| 42.5° | 2813.0 | 2774.5 | 2727.2 | 2687.9 | 2661.5 | 2623.7 | 2616.0 | 2596.0 | 2600.6 | 2615.4 | 2648.2 |
| 45° | 3026.6 | 2994.9 | 2966.0 | 2920.5 | 2898.1 | 2857.2 | 2844.3 | 2820.6 | 2807.4 | 2814.2 | 2847.1 |
| 47.5° | 3233.4 | 3213.1 | 3183.0 | 3153.5 | 3136.3 | 3099.7 | 3083.1 | 3066.2 | 3049.3 | 3048.7 | 3083.1 |
| 50° | 3636.6 | 3625.8 | 3590.2 | 3559.5 | 3567.8 | 3522.9 | 3525.7 | 3480.2 | 3500.8 | 3503.2 | 3575.4 |
| 52.5° | 4015.5 | 4053.0 | 4079.5 | 4111.7 | 4132.6 | 4136.6 | 4150.5 | 4171.0 | 4195.9 | 4245.1 | 4312.1 |
| 55° | 4232.5 | 4279.5 | 4306.9 | 4331.5 | 4372.0 | 4380.6 | 4403.7 | 4431.0 | 4452.9 | 4508.2 | 4565.0 |
| 57.5° | 4490.4 | 4577.6 | 4620.0 | 4659.1 | 4713.8 | 4734.7 | 4773.1 | 4802.9 | 4831.2 | 4896.6 | 4965.5 |
| 60° | 4649.2 | 4755.6 | 4841.9 | 4903.7 | 4972.2 | 5021.4 | 5079.5 | 5126.2 | 5192.6 | 5271.0 | 5373.6 |
| 62.5° | 4522.9 | 4679.1 | 4793.7 | 4899.7 | 4992.8 | 5086.9 | 5170.2 | 5257.4 | 5358.2 | 5476.9 | 5636.1 |
| 65° | 4019.8 | 4178.7 | 4375.1 | 4485.1 | 4608.4 | 4753.4 | 4880.0 | 5021.4 | 5158.8 | 5331.5 | 5566.9 |
| 67.5° | 3236.2 | 3420.9 | 3641.5 | 3752.5 | 3894.1 | 4056.1 | 4198.1 | 4370.8 | 4531.2 | 4740.5 | 5031.6 |
| 70° | 2332.6 | 2571.4 | 2757.0 | 2872.9 | 3038.2 | 3205.1 | 3342.2 | 3543.2 | 3675.9 | 3890.5 | 4191.3 |
| 72.5° | 1477.0 | 1665.4 | 1892.8 | 2038.8 | 2185.7 | 2354.7 | 2494.9 | 2668.2 | 2792.1 | 2987.5 | 3260.1 |
| 75° | 794.1 | 933.0 | 1132.8 | 1271.4 | 1428.8 | 1573.2 | 1737.3 | 1853.5 | 1945.1 | 2099.7 | 2320.9 |
| 77.5° | 372.2 | 456.7 | 557.8 | 664.4 | 771.1 | 882.3 | 990.5 | 1084.6 | 1123.9 | 1212.4 | 1343.0 |
| 80° | 225.9 | 253.2 | 282.7 | 315.6 | 360.2 | 396.1 | 443.8 | 478.2 | 480.7 | 508.6 | 548.6 |
| 82.5° | 150.9 | 161.0 | 170.0 | 178.2 | 189.6 | 198.5 | 208.7 | 220.7 | 225.6 | 232.0 | 244.9 |
| 85° | 103.0 | 107.9 | 109.7 | 114.9 | 113.7 | 116.8 | 120.8 | 124.8 | 126.9 | 126.6 | 132.5 |
| 87.5° | 63.3 | 65.8 | 67.0 | 68.2 | 67.3 | 66.1 | 67.9 | 70.1 | 70.7 | 68.8 | 69.5 |
| 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-01-LED-U-T2R-7050

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 | 527.7 |
| 2.5° | 563.3 | 560.6 | 557.8 | 556.0 | 555.3 | 539.1 | 532.0 | 527.4 | 517.5 | 509.5 | 503.1 |
| 5° | 621.4 | 615.6 | 611.0 | 605.4 | 602.4 | 561.2 | 546.1 | 535.7 | 518.5 | 508.3 | 499.1 |
| 7.5° | 714.8 | 698.6 | 689.0 | 678.3 | 669.1 | 594.7 | 569.8 | 553.5 | 529.5 | 516.0 | 505.6 |
| 10° | 820.9 | 804.0 | 788.9 | 772.3 | 757.9 | 639.2 | 603.0 | 577.8 | 546.1 | 528.6 | 514.8 |
| 12.5° | 939.2 | 922.6 | 903.5 | 882.3 | 863.9 | 695.8 | 645.4 | 609.4 | 566.1 | 542.7 | 523.4 |
| 15° | 1079.0 | 1049.8 | 1026.8 | 1002.2 | 980.7 | 763.4 | 694.9 | 645.1 | 587.3 | 555.6 | 529.8 |
| 17.5° | 1209.0 | 1178.3 | 1146.9 | 1125.4 | 1100.5 | 839.3 | 744.7 | 681.3 | 604.8 | 563.9 | 531.1 |
| 20° | 1336.0 | 1302.5 | 1275.4 | 1246.5 | 1220.4 | 918.0 | 797.8 | 713.3 | 616.2 | 564.3 | 523.4 |
| 22.5° | 1447.8 | 1426.9 | 1396.8 | 1365.5 | 1339.0 | 996.7 | 847.6 | 740.4 | 620.5 | 557.2 | 509.9 |
| 25° | 1575.1 | 1552.9 | 1516.0 | 1489.6 | 1460.1 | 1076.9 | 896.5 | 761.2 | 618.0 | 544.0 | 489.0 |
| 27.5° | 1710.9 | 1686.3 | 1648.5 | 1620.8 | 1585.2 | 1160.2 | 941.3 | 776.3 | 608.8 | 522.5 | 461.0 |
| 30° | 1852.6 | 1830.1 | 1792.9 | 1765.0 | 1729.0 | 1248.4 | 991.4 | 786.4 | 590.4 | 492.6 | 428.4 |
| 32.5° | 2004.7 | 1985.9 | 1949.1 | 1919.9 | 1881.5 | 1343.9 | 1038.2 | 789.5 | 562.4 | 457.3 | 394.0 |
| 35° | 2149.1 | 2136.2 | 2105.2 | 2077.8 | 2037.9 | 1434.3 | 1087.6 | 788.0 | 529.2 | 418.6 | 362.6 |
| 37.5° | 2311.7 | 2304.0 | 2288.7 | 2253.9 | 2205.1 | 1556.9 | 1146.9 | 781.5 | 488.6 | 380.2 | 338.7 |
| 40° | 2485.0 | 2485.7 | 2469.1 | 2445.4 | 2399.9 | 1705.7 | 1217.6 | 768.9 | 444.4 | 346.4 | 316.9 |
| 42.5° | 2668.5 | 2678.0 | 2670.1 | 2653.2 | 2609.5 | 1855.6 | 1302.1 | 753.6 | 401.4 | 313.5 | 295.3 |
| 45° | 2878.7 | 2890.4 | 2902.7 | 2877.8 | 2835.4 | 2053.6 | 1413.4 | 733.6 | 355.0 | 286.1 | 280.6 |
| 47.5° | 3121.2 | 3139.7 | 3150.7 | 3151.0 | 3108.6 | 2298.8 | 1594.1 | 721.6 | 313.8 | 267.7 | 273.5 |
| 50° | 3632.9 | 3638.8 | 3664.9 | 3710.4 | 3677.8 | 2866.4 | 1909.7 | 714.2 | 285.8 | 256.3 | 268.3 |
| 52.5° | 4370.2 | 4434.4 | 4479.6 | 4476.5 | 4432.3 | 3226.9 | 2083.7 | 676.1 | 269.2 | 252.0 | 265.8 |
| 55° | 4670.4 | 4750.7 | 4834.3 | 4856.4 | 4822.0 | 3534.6 | 2248.1 | 638.0 | 261.2 | 255.1 | 266.8 |
| 57.5° | 5070.6 | 5205.8 | 5320.4 | 5368.7 | 5318.9 | 3928.3 | 2464.5 | 618.0 | 258.8 | 263.4 | 272.6 |
| 60° | 5538.0 | 5705.2 | 5855.8 | 5942.5 | 5942.5 | 4380.6 | 2688.8 | 609.7 | 255.4 | 275.7 | 282.4 |
| 62.5° | 5838.3 | 6083.8 | 6311.3 | 6438.2 | 6434.5 | 4695.6 | 2788.4 | 581.5 | 247.7 | 284.3 | 296.0 |
| 65° | 5839.5 | 6131.5 | 6421.3 | 6563.9 | 6571.3 | 4656.9 | 2624.0 | 513.5 | 233.6 | 285.5 | 309.5 |
| 67.5° | 5352.7 | 5664.0 | 6001.8 | 6161.3 | 6198.2 | 4286.9 | 2271.5 | 422.3 | 210.5 | 273.2 | 314.4 |
| 70° | 4520.8 | 4824.7 | 5169.5 | 5326.3 | 5391.7 | 3654.4 | 1829.5 | 325.5 | 181.0 | 246.2 | 304.3 |
| 72.5° | 3561.6 | 3859.7 | 4099.7 | 4214.4 | 4265.4 | 2793.3 | 1332.3 | 245.9 | 148.4 | 207.4 | 276.9 |
| 75° | 2521.6 | 2745.4 | 2872.9 | 2898.4 | 2906.4 | 1683.8 | 809.5 | 182.9 | 122.3 | 161.3 | 233.9 |
| 77.5° | 1423.2 | 1519.1 | 1508.7 | 1520.0 | 1425.4 | 650.0 | 352.5 | 130.9 | 100.8 | 122.6 | 181.3 |
| 80° | 555.6 | 572.9 | 538.1 | 527.4 | 483.7 | 241.9 | 155.5 | 91.3 | 80.5 | 92.8 | 126.9 |
| 82.5° | 244.9 | 252.9 | 245.6 | 247.4 | 236.6 | 124.8 | 93.1 | 66.1 | 61.5 | 67.9 | 84.2 |
| 85° | 134.9 | 137.4 | 136.8 | 140.8 | 134.9 | 49.8 | 44.3 | 40.6 | 43.0 | 46.1 | 54.1 |
| 87.5° | 65.8 | 66.4 | 64.2 | 67.6 | 65.5 | 25.2 | 21.8 | 23.0 | 25.2 | 25.8 | 25.8 |
| 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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| 10° | 503.4 | 496.3 | 492.0 | 488.3 | 485.6 | 485.6 |
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| 35° | 343.3 | 342.1 | 339.3 | 327.6 | 317.8 | 315.0 |
| 37.5° | 331.6 | 343.0 | 328.8 | 305.8 | 298.7 | 298.1 |
| 40° | 324.8 | 333.4 | 309.2 | 301.2 | 301.8 | 301.2 |
| 42.5° | 309.5 | 318.4 | 309.8 | 306.1 | 308.6 | 309.2 |
| 45° | 294.1 | 303.9 | 314.4 | 311.9 | 317.8 | 317.8 |
| 47.5° | 285.5 | 300.3 | 314.1 | 314.1 | 322.7 | 325.8 |
| 50° | 275.7 | 297.2 | 309.2 | 313.5 | 320.2 | 317.8 |
| 52.5° | 275.1 | 292.0 | 302.1 | 309.8 | 312.9 | 310.1 |
| 55° | 276.0 | 287.7 | 295.0 | 303.6 | 307.3 | 307.6 |
| 57.5° | 277.2 | 285.2 | 290.1 | 294.1 | 305.2 | 305.2 |
| 60° | 280.3 | 283.0 | 285.8 | 288.0 | 302.4 | 302.7 |
| 62.5° | 285.2 | 280.9 | 280.3 | 282.4 | 300.9 | 299.6 |
| 65° | 292.9 | 277.8 | 273.2 | 275.4 | 299.3 | 295.6 |
| 67.5° | 303.3 | 273.2 | 264.3 | 265.8 | 298.1 | 290.1 |
| 70° | 312.9 | 265.8 | 253.2 | 251.7 | 286.4 | 272.3 |
| 72.5° | 313.8 | 257.2 | 237.9 | 233.3 | 248.9 | 235.4 |
| 75° | 298.4 | 251.4 | 221.0 | 207.4 | 205.6 | 203.8 |
| 77.5° | 268.9 | 248.0 | 201.3 | 180.1 | 176.4 | 177.6 |
| 80° | 225.0 | 235.4 | 177.6 | 152.4 | 172.4 | 170.3 |
| 82.5° | 168.1 | 207.8 | 150.9 | 134.9 | 134.6 | 118.9 |
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