

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: P191459

Luminaire Tested: **GAN-AF-01-LED-U-T3-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6994.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

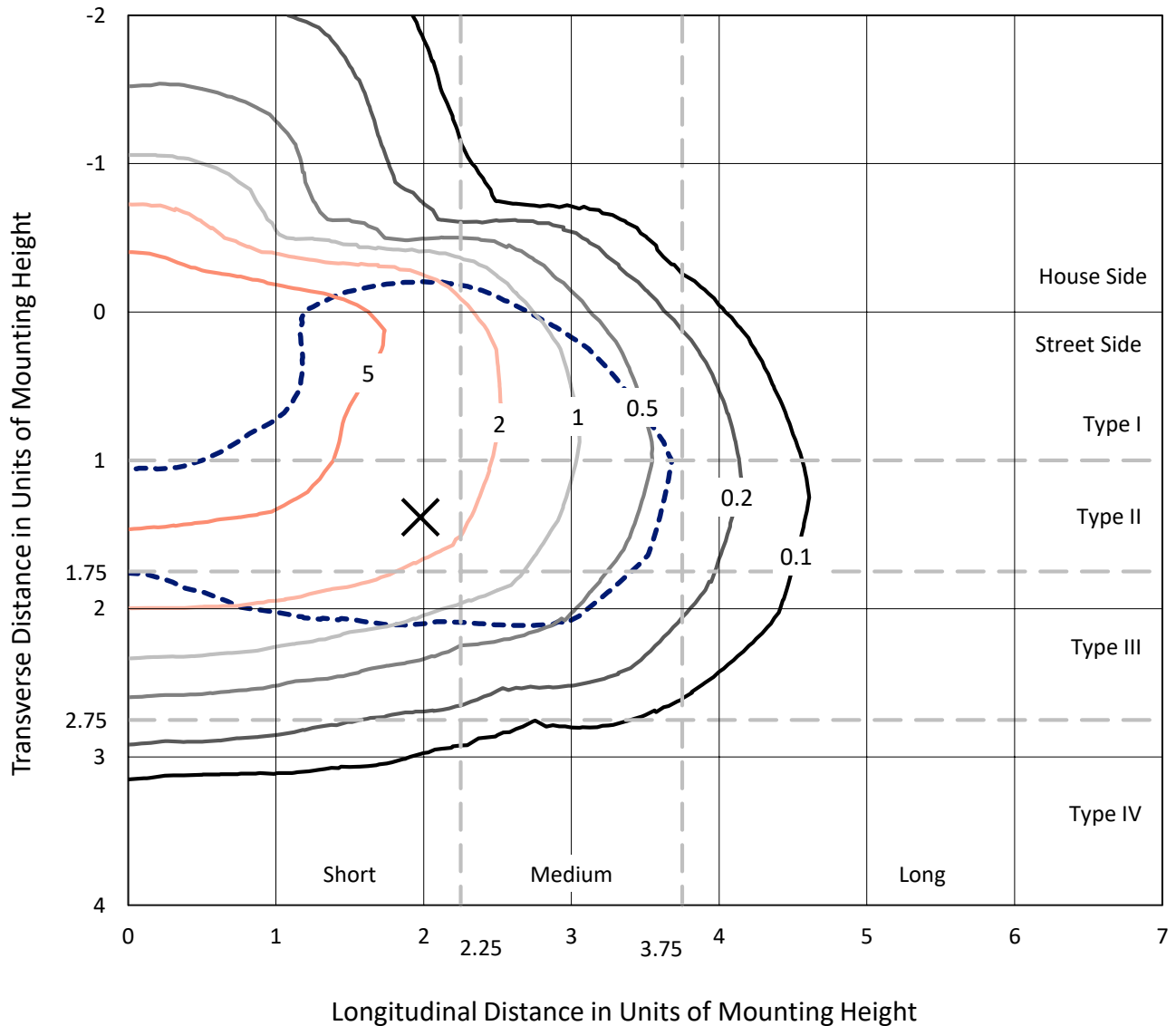
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191459
 CATALOG NUMBER: GAN-AF-01-LED-U-T3-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

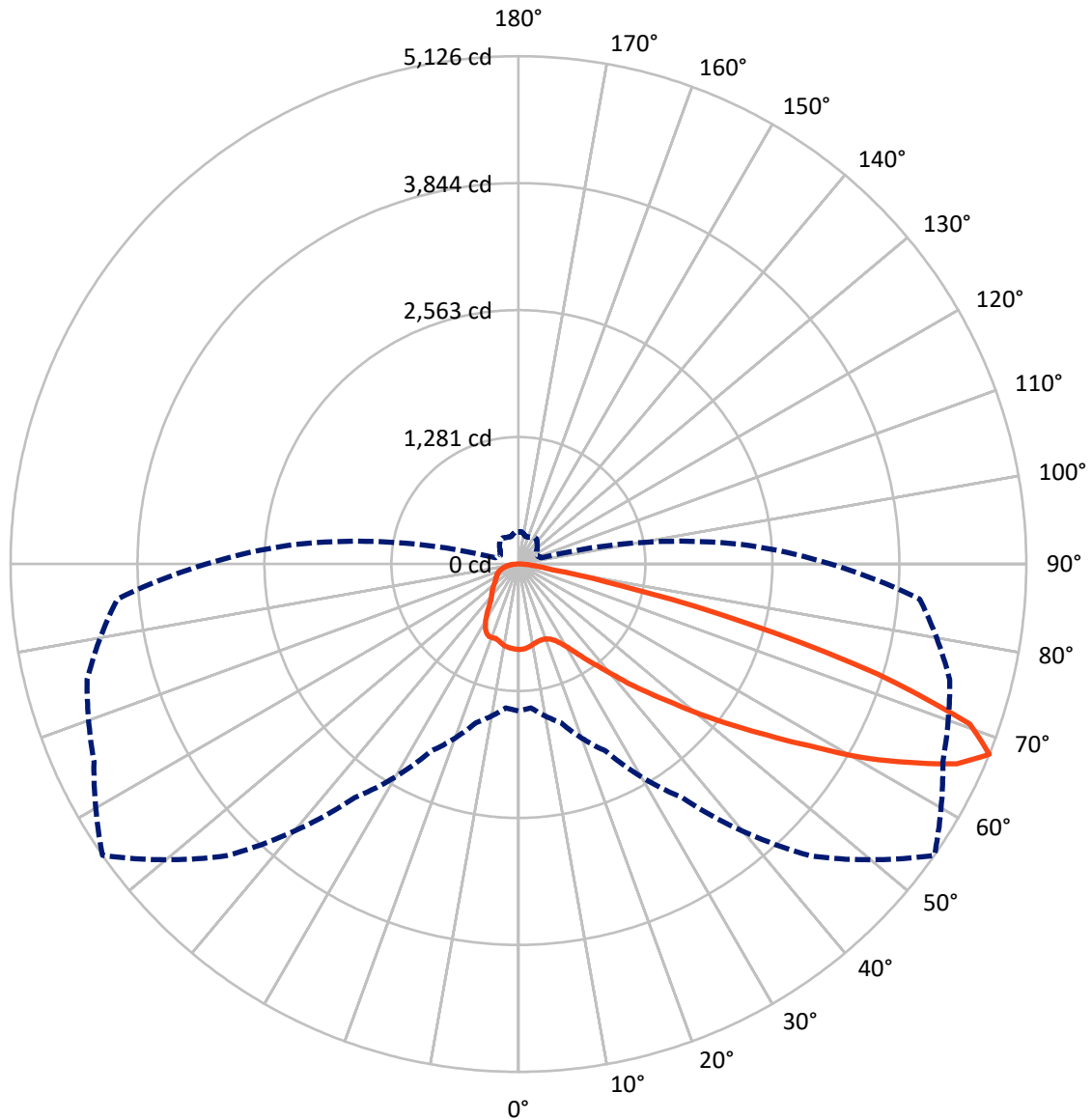
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191459
CATALOG NUMBER: GAN-AF-01-LED-U-T3-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191459

CATALOG NUMBER: GAN-AF-01-LED-U-T3-1200-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1511.1 | 0.0 | 1511.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 5483.9 | 0.0 | 5483.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 6994.9 | 0.0 | 6994.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.5 | 1.2 |
| 10°-20° | 228.0 | 3.3 |
| 20°-30° | 382.0 | 5.5 |
| 30°-40° | 628.1 | 9.0 |
| 40°-50° | 1057.3 | 15.1 |
| 50°-60° | 1664.1 | 23.8 |
| 60°-70° | 1985.9 | 28.4 |
| 70°-80° | 852.8 | 12.2 |
| 80°-90° | 116.3 | 1.7 |
| 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° | 6994.9 | 100.0 |
| 0°-180° | 6994.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191459

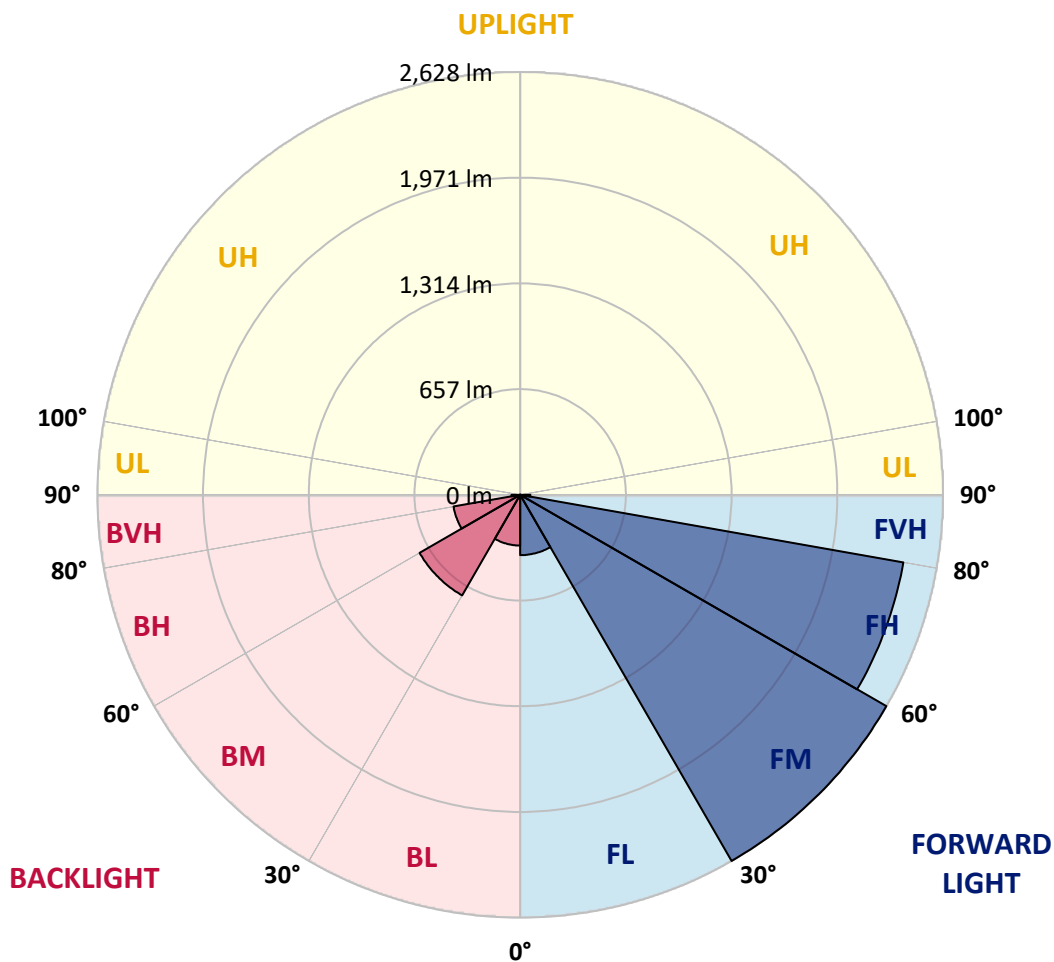
CATALOG NUMBER: GAN-AF-01-LED-U-T3-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 374.9 | 5.4 | | | |
| FM | (30°-60°) | 2627.8 | 37.6 | | | |
| FH | (60°-80°) | 2418.2 | 34.6 | | | G2/5000 |
| FVH | (80°-90°) | 62.9 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 315.5 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 721.7 | 10.3 | B1/1000 | | |
| BH | (60°-80°) | 420.5 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 53.3 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P191459
 CATALOG NUMBER: GAN-AF-01-LED-U-T3-1200-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 |
| 2.5° | 855.1 | 855.5 | 856.1 | 858.9 | 861.2 | 860.5 | 860.8 | 859.5 | 859.2 | 857.1 | 859.2 |
| 5° | 844.3 | 845.4 | 845.7 | 850.1 | 852.7 | 853.4 | 852.4 | 850.7 | 848.7 | 846.7 | 847.7 |
| 7.5° | 819.7 | 822.4 | 822.7 | 828.8 | 833.2 | 838.9 | 839.2 | 839.5 | 838.6 | 837.2 | 839.2 |
| 10° | 804.1 | 804.8 | 804.4 | 808.8 | 812.2 | 818.7 | 822.4 | 828.8 | 831.5 | 832.2 | 833.5 |
| 12.5° | 803.1 | 802.4 | 801.4 | 801.4 | 800.4 | 803.1 | 809.9 | 819.0 | 825.4 | 827.5 | 829.1 |
| 15° | 813.9 | 813.6 | 810.2 | 805.2 | 798.7 | 796.7 | 802.4 | 812.5 | 821.0 | 825.4 | 827.1 |
| 17.5° | 838.2 | 836.2 | 830.8 | 819.3 | 805.5 | 800.0 | 800.8 | 809.2 | 819.0 | 824.7 | 826.4 |
| 20° | 882.8 | 882.8 | 871.3 | 849.7 | 825.0 | 812.2 | 806.1 | 811.2 | 820.6 | 828.4 | 830.8 |
| 22.5° | 959.8 | 960.6 | 941.3 | 905.8 | 864.3 | 836.9 | 821.6 | 820.6 | 831.8 | 840.6 | 843.3 |
| 25° | 1069.0 | 1066.3 | 1039.2 | 988.6 | 925.4 | 880.1 | 853.8 | 847.7 | 857.1 | 867.0 | 870.3 |
| 27.5° | 1196.0 | 1186.2 | 1154.1 | 1092.9 | 1011.2 | 945.0 | 904.5 | 894.7 | 903.8 | 914.9 | 918.3 |
| 30° | 1321.7 | 1311.5 | 1273.4 | 1206.5 | 1115.6 | 1031.9 | 973.7 | 957.8 | 970.7 | 986.5 | 988.6 |
| 32.5° | 1447.4 | 1447.4 | 1404.8 | 1326.8 | 1227.7 | 1135.6 | 1065.9 | 1047.0 | 1068.3 | 1087.6 | 1092.0 |
| 35° | 1597.7 | 1598.4 | 1557.2 | 1463.2 | 1356.8 | 1259.2 | 1182.5 | 1168.6 | 1200.7 | 1214.2 | 1224.8 |
| 37.5° | 1782.5 | 1786.3 | 1733.2 | 1619.7 | 1503.1 | 1400.4 | 1309.2 | 1290.2 | 1322.4 | 1359.2 | 1393.0 |
| 40° | 1982.2 | 1987.0 | 1928.5 | 1788.6 | 1672.0 | 1564.6 | 1466.0 | 1431.8 | 1485.2 | 1555.5 | 1599.1 |
| 42.5° | 2172.7 | 2197.1 | 2140.6 | 1996.7 | 1871.4 | 1760.2 | 1660.2 | 1610.5 | 1677.4 | 1783.5 | 1821.4 |
| 45° | 2448.1 | 2465.7 | 2367.4 | 2237.0 | 2119.0 | 1994.8 | 1862.3 | 1809.9 | 1903.5 | 2037.3 | 2045.1 |
| 47.5° | 2631.5 | 2618.4 | 2568.4 | 2487.3 | 2412.6 | 2296.4 | 2097.0 | 2039.7 | 2164.0 | 2321.4 | 2277.8 |
| 50° | 2729.2 | 2733.3 | 2726.5 | 2731.3 | 2733.9 | 2661.0 | 2384.9 | 2306.2 | 2454.6 | 2644.7 | 2544.4 |
| 52.5° | 2820.5 | 2793.4 | 2815.7 | 2926.6 | 3060.4 | 3033.3 | 2698.1 | 2616.0 | 2766.1 | 3003.6 | 2826.2 |
| 55° | 2818.4 | 2777.2 | 2849.8 | 3045.4 | 3335.6 | 3366.7 | 3049.8 | 2955.2 | 3095.4 | 3388.4 | 3124.8 |
| 57.5° | 2718.7 | 2720.7 | 2832.7 | 3088.7 | 3527.5 | 3680.3 | 3458.0 | 3316.1 | 3444.8 | 3778.3 | 3397.5 |
| 60° | 2581.6 | 2600.1 | 2761.4 | 3081.6 | 3681.3 | 3937.4 | 3958.7 | 3704.9 | 3787.1 | 4132.7 | 3623.2 |
| 62.5° | 2360.3 | 2379.9 | 2602.2 | 3008.0 | 3658.0 | 4185.1 | 4411.4 | 4146.2 | 4144.9 | 4347.5 | 3689.4 |
| 65° | 2011.2 | 2005.5 | 2239.0 | 2732.6 | 3462.4 | 4368.2 | 4861.1 | 4527.7 | 4414.4 | 4350.9 | 3556.3 |
| 67.5° | 1483.2 | 1457.5 | 1657.9 | 2081.2 | 2877.9 | 4163.1 | 5125.6 | 4726.3 | 4506.3 | 4064.8 | 3149.6 |
| 70° | 769.7 | 744.0 | 906.1 | 1215.3 | 1892.7 | 3249.2 | 4832.7 | 4623.6 | 4303.3 | 3407.3 | 2467.4 |
| 72.5° | 329.1 | 324.7 | 390.6 | 533.2 | 915.6 | 1874.1 | 3789.4 | 4001.9 | 3692.4 | 2538.7 | 1696.4 |
| 75° | 221.3 | 219.9 | 244.6 | 290.5 | 411.8 | 760.6 | 2371.4 | 2840.7 | 2701.5 | 1574.1 | 954.1 |
| 77.5° | 173.7 | 172.0 | 186.5 | 208.8 | 266.9 | 300.0 | 1052.4 | 1525.1 | 1411.6 | 685.2 | 417.6 |
| 80° | 135.8 | 134.5 | 143.6 | 155.8 | 191.9 | 189.2 | 346.3 | 606.8 | 469.6 | 262.5 | 203.1 |
| 82.5° | 107.1 | 107.1 | 114.6 | 114.9 | 136.2 | 129.1 | 180.8 | 267.3 | 234.5 | 153.0 | 124.3 |
| 85° | 98.0 | 98.0 | 105.8 | 85.8 | 88.9 | 81.4 | 112.2 | 158.5 | 148.6 | 62.8 | 54.0 |
| 87.5° | 49.3 | 48.0 | 88.9 | 76.0 | 48.3 | 43.3 | 54.7 | 76.7 | 82.4 | 34.8 | 27.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P191459

CATALOG NUMBER: GAN-AF-01-LED-U-T3-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 | 862.6 |
| 2.5° | 858.5 | 858.2 | 858.9 | 859.2 | 861.8 | 865.6 | 867.3 | 869.6 | 871.0 | 870.3 |
| 5° | 848.3 | 849.0 | 851.7 | 853.8 | 858.5 | 864.6 | 868.0 | 870.6 | 873.0 | 872.0 |
| 7.5° | 839.9 | 841.6 | 845.7 | 847.3 | 850.1 | 851.7 | 851.4 | 852.4 | 854.5 | 852.1 |
| 10° | 835.1 | 837.2 | 840.3 | 837.9 | 831.5 | 822.4 | 813.9 | 809.5 | 810.9 | 809.2 |
| 12.5° | 830.4 | 833.2 | 830.8 | 819.7 | 801.8 | 789.9 | 783.5 | 784.2 | 787.2 | 787.9 |
| 15° | 827.8 | 828.8 | 818.7 | 797.7 | 779.5 | 777.7 | 781.1 | 780.4 | 780.8 | 780.8 |
| 17.5° | 827.8 | 825.0 | 806.1 | 785.2 | 777.4 | 774.4 | 763.9 | 750.7 | 745.0 | 743.0 |
| 20° | 832.2 | 825.0 | 802.1 | 788.2 | 771.3 | 745.3 | 717.6 | 693.3 | 682.5 | 679.4 |
| 22.5° | 845.4 | 833.2 | 813.6 | 789.6 | 741.6 | 698.1 | 654.1 | 625.0 | 605.5 | 602.1 |
| 25° | 872.0 | 858.5 | 836.2 | 771.7 | 694.3 | 632.2 | 582.2 | 549.7 | 530.1 | 527.4 |
| 27.5° | 918.6 | 909.8 | 848.3 | 732.1 | 631.5 | 564.9 | 518.6 | 493.6 | 479.0 | 478.0 |
| 30° | 988.9 | 984.5 | 842.3 | 673.7 | 554.1 | 499.7 | 477.4 | 462.9 | 452.0 | 451.7 |
| 32.5° | 1101.1 | 1065.6 | 822.4 | 602.4 | 483.4 | 453.4 | 444.3 | 435.5 | 427.1 | 427.1 |
| 35° | 1245.3 | 1131.2 | 784.5 | 526.0 | 440.6 | 427.7 | 416.2 | 402.4 | 391.3 | 390.6 |
| 37.5° | 1414.9 | 1171.7 | 716.6 | 464.5 | 420.3 | 410.5 | 393.6 | 373.0 | 353.4 | 350.1 |
| 40° | 1586.3 | 1183.9 | 621.0 | 426.7 | 407.4 | 393.2 | 372.7 | 348.3 | 329.4 | 328.4 |
| 42.5° | 1743.3 | 1160.5 | 519.7 | 400.7 | 394.7 | 375.7 | 354.0 | 332.5 | 317.6 | 317.2 |
| 45° | 1875.1 | 1100.1 | 434.4 | 376.0 | 381.2 | 359.8 | 340.5 | 322.9 | 311.5 | 309.1 |
| 47.5° | 1999.2 | 1014.6 | 374.7 | 350.1 | 367.5 | 351.1 | 334.8 | 318.2 | 307.1 | 305.5 |
| 50° | 2143.1 | 922.4 | 332.8 | 324.7 | 355.8 | 348.0 | 339.5 | 322.3 | 303.7 | 301.7 |
| 52.5° | 2317.4 | 842.6 | 300.0 | 302.4 | 346.7 | 352.0 | 351.7 | 333.8 | 301.4 | 298.7 |
| 55° | 2512.0 | 754.1 | 275.4 | 284.2 | 342.9 | 359.5 | 354.8 | 344.6 | 303.4 | 299.3 |
| 57.5° | 2703.6 | 650.7 | 258.1 | 270.3 | 337.5 | 358.9 | 340.2 | 325.7 | 308.1 | 302.4 |
| 60° | 2847.2 | 511.9 | 245.0 | 258.1 | 325.7 | 347.7 | 324.4 | 305.0 | 307.1 | 302.7 |
| 62.5° | 2856.6 | 395.7 | 229.0 | 247.7 | 307.8 | 336.6 | 313.8 | 295.9 | 311.5 | 307.5 |
| 65° | 2688.7 | 299.0 | 213.9 | 235.2 | 288.6 | 329.4 | 303.7 | 290.9 | 320.6 | 316.2 |
| 67.5° | 2263.7 | 240.6 | 201.0 | 222.3 | 269.2 | 314.6 | 294.6 | 286.1 | 328.8 | 321.0 |
| 70° | 1634.3 | 205.1 | 188.5 | 206.7 | 252.1 | 297.7 | 286.5 | 277.7 | 306.8 | 294.6 |
| 72.5° | 1006.2 | 177.7 | 174.3 | 186.2 | 238.9 | 280.1 | 274.4 | 261.9 | 276.4 | 266.6 |
| 75° | 502.4 | 154.1 | 158.5 | 165.9 | 220.2 | 260.1 | 254.1 | 241.5 | 243.6 | 241.5 |
| 77.5° | 240.6 | 131.8 | 139.8 | 145.6 | 196.3 | 237.5 | 231.1 | 218.3 | 215.8 | 216.3 |
| 80° | 152.4 | 110.2 | 117.9 | 121.9 | 175.3 | 211.1 | 204.7 | 191.9 | 218.9 | 203.1 |
| 82.5° | 95.2 | 89.5 | 91.6 | 99.0 | 152.7 | 183.8 | 175.3 | 163.9 | 197.3 | 156.1 |
| 85° | 52.7 | 62.5 | 65.2 | 71.6 | 117.5 | 153.7 | 145.3 | 130.7 | 117.2 | 115.2 |
| 87.5° | 31.4 | 37.1 | 38.2 | 42.9 | 79.1 | 111.2 | 98.3 | 93.3 | 77.3 | 77.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)