

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: P192151

Luminaire Tested: **GAN-AF-03-LED-U-T2-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192151  
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-03-LED-U-T2-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11749 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

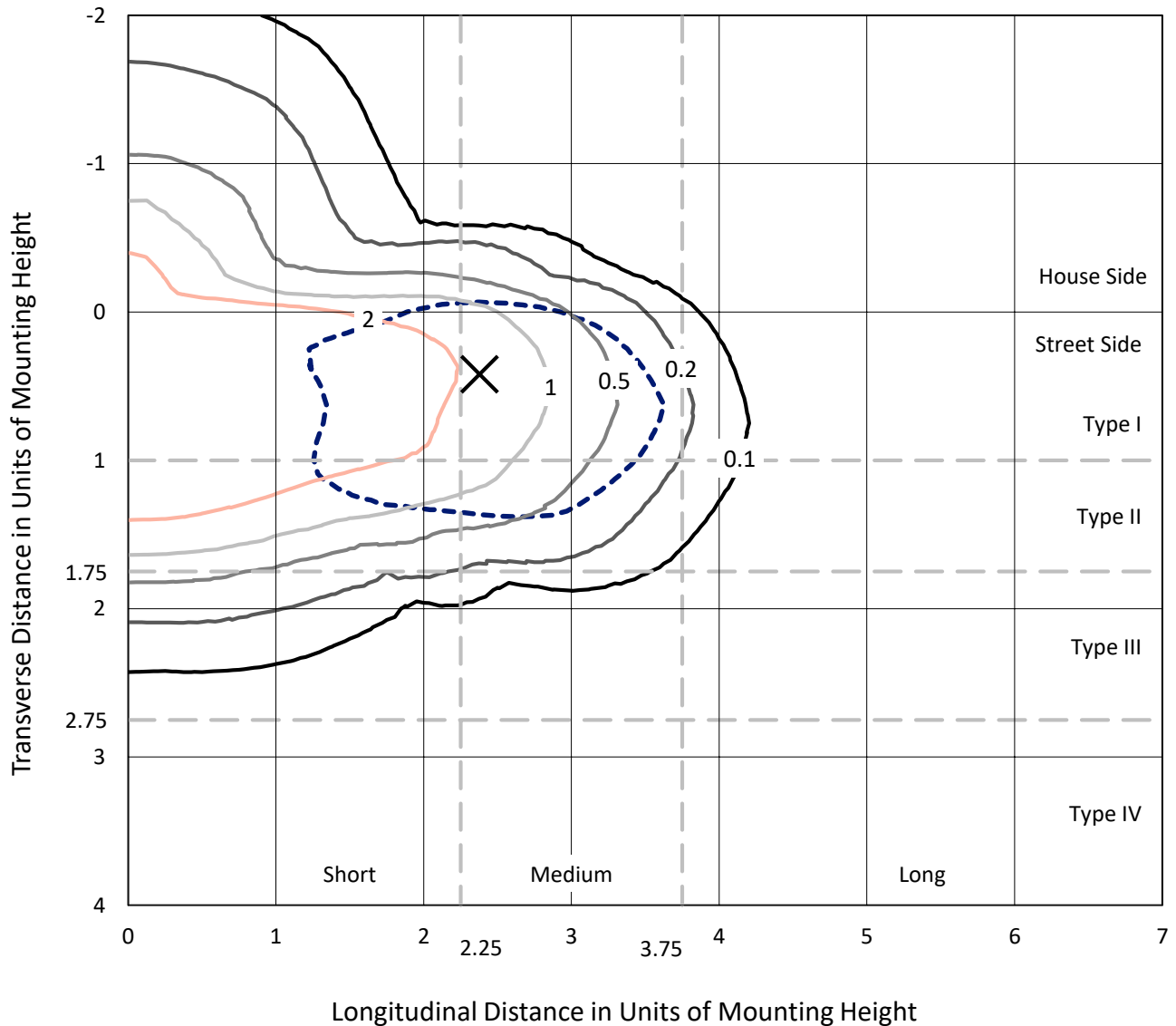
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P192151  
 CATALOG NUMBER: GAN-AF-03-LED-U-T2-7050-600

### Iso-Footcandle Lines of Horizontal Illumination

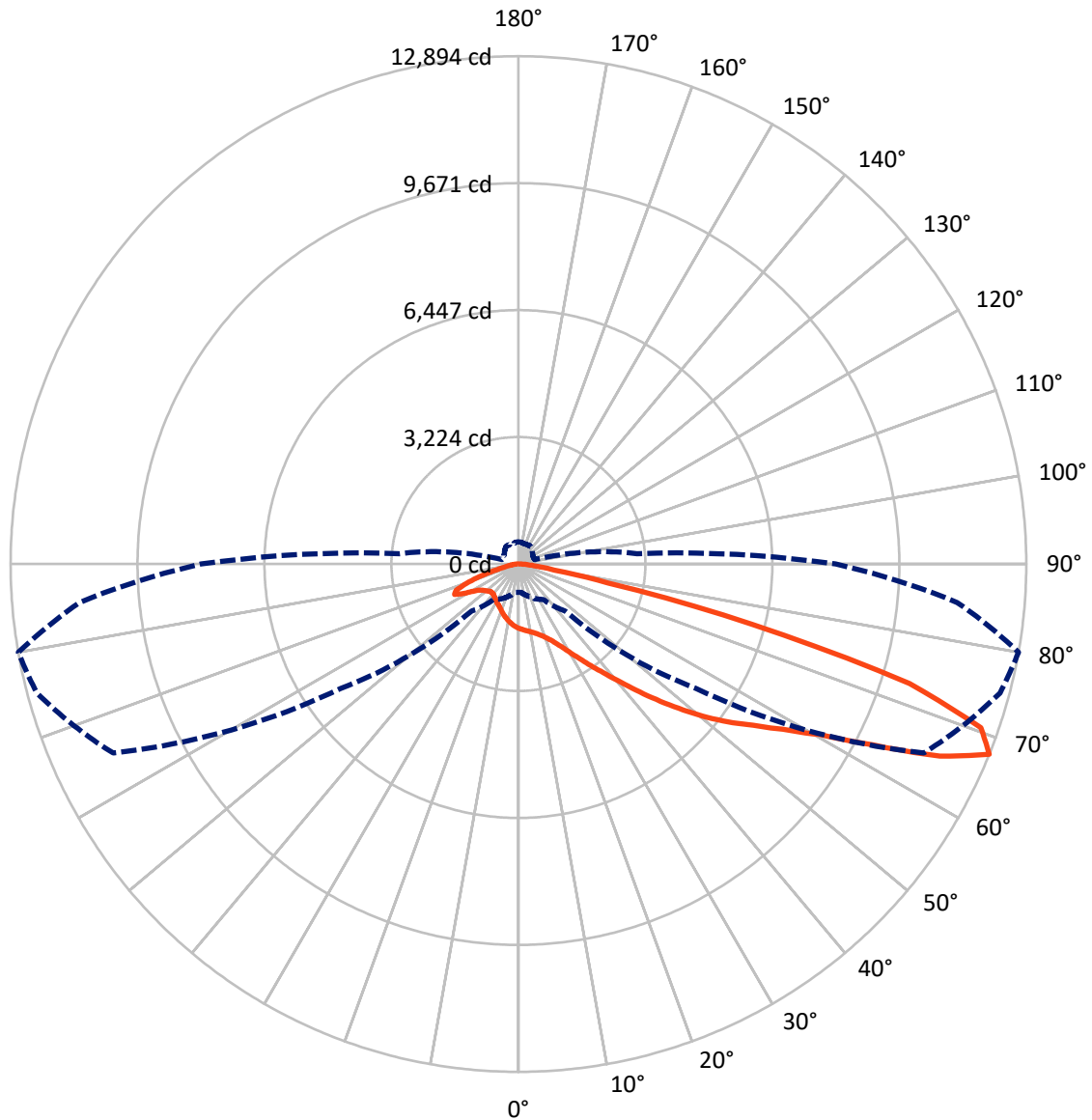
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P192151  
CATALOG NUMBER: GAN-AF-03-LED-U-T2-7050-600

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P192151

CATALOG NUMBER: GAN-AF-03-LED-U-T2-7050-600

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2163.7   | 0.0    | 2163.7  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 9585.3   | 0.0    | 9585.3  |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 11749.0  | 0.0    | 11749.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 150.6   | 1.3       |
| 10°-20°   | 433.7   | 3.7       |
| 20°-30°   | 718.0   | 6.1       |
| 30°-40°   | 1174.4  | 10.0      |
| 40°-50°   | 1896.2  | 16.1      |
| 50°-60°   | 2737.5  | 23.3      |
| 60°-70°   | 3021.0  | 25.7      |
| 70°-80°   | 1392.5  | 11.9      |
| 80°-90°   | 225.2   | 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°    | 11749.0 | 100.0     |
| 0°-180°   | 11749.0 | 100.0     |



REPORT NUMBER: P192151

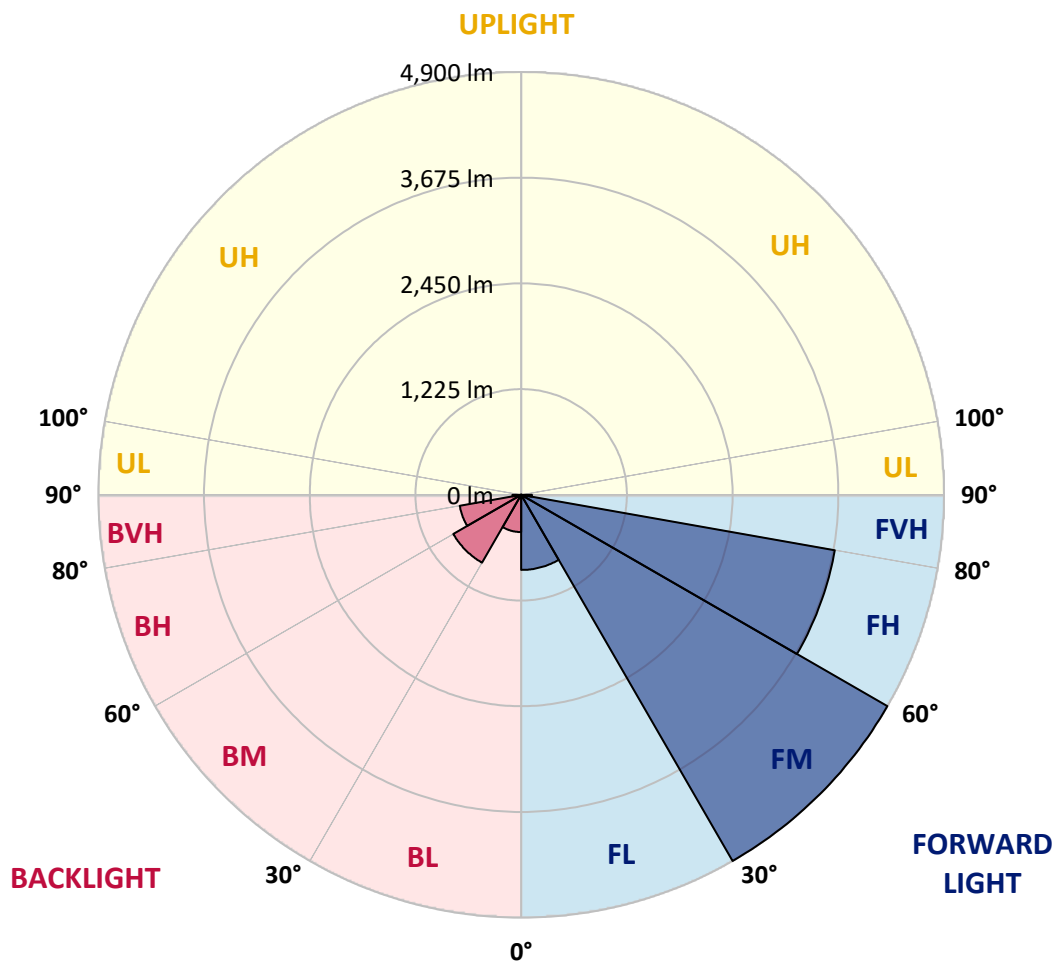
CATALOG NUMBER: GAN-AF-03-LED-U-T2-7050-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 870.6  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 4900.2 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 3690.7 | 31.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 123.8  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 431.7  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 907.8  | 7.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 722.8  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 101.4  | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium





REPORT NUMBER: P192151  
 CATALOG NUMBER: GAN-AF-03-LED-U-T2-7050-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 80°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3  | 1632.3  | 1632.3  | 1632.3  |
| 2.5°  | 1785.6 | 1775.1 | 1776.9 | 1774.0 | 1765.3 | 1750.3 | 1734.1 | 1704.6  | 1673.9  | 1657.7  | 1645.0  |
| 5°    | 1934.8 | 1931.9 | 1927.8 | 1918.6 | 1896.6 | 1865.4 | 1826.6 | 1774.6  | 1718.5  | 1689.0  | 1660.6  |
| 7.5°  | 2046.4 | 2044.7 | 2039.5 | 2033.7 | 2012.3 | 1974.7 | 1916.3 | 1842.2  | 1760.7  | 1720.2  | 1676.2  |
| 10°   | 2055.7 | 2058.6 | 2062.6 | 2078.2 | 2081.1 | 2060.9 | 2001.3 | 1911.7  | 1804.6  | 1752.6  | 1696.5  |
| 12.5° | 1977.0 | 1983.4 | 1999.0 | 2038.9 | 2081.1 | 2106.0 | 2075.3 | 1984.5  | 1856.1  | 1793.1  | 1721.9  |
| 15°   | 1872.9 | 1876.4 | 1895.5 | 1950.4 | 2026.2 | 2103.1 | 2132.0 | 2064.9  | 1922.6  | 1845.1  | 1760.1  |
| 17.5° | 1828.4 | 1830.1 | 1843.4 | 1879.8 | 1950.4 | 2060.3 | 2163.8 | 2152.3  | 2004.2  | 1909.9  | 1807.0  |
| 20°   | 1805.8 | 1809.9 | 1828.9 | 1864.8 | 1909.3 | 2005.4 | 2168.5 | 2246.6  | 2101.4  | 1990.9  | 1866.0  |
| 22.5° | 1870.0 | 1868.3 | 1875.2 | 1893.1 | 1930.7 | 1988.6 | 2165.0 | 2343.7  | 2225.1  | 2095.0  | 1942.9  |
| 25°   | 2019.8 | 2026.2 | 2014.0 | 1993.8 | 2005.9 | 2046.4 | 2183.5 | 2449.0  | 2380.2  | 2228.6  | 2043.5  |
| 27.5° | 2233.2 | 2226.9 | 2209.0 | 2161.5 | 2136.7 | 2154.0 | 2244.8 | 2562.4  | 2572.8  | 2404.5  | 2176.6  |
| 30°   | 2446.1 | 2440.9 | 2423.5 | 2365.7 | 2314.8 | 2300.3 | 2364.0 | 2692.5  | 2802.4  | 2615.6  | 2339.7  |
| 32.5° | 2667.1 | 2661.3 | 2645.1 | 2587.2 | 2525.9 | 2492.4 | 2533.4 | 2842.9  | 3073.1  | 2867.8  | 2531.7  |
| 35°   | 2939.5 | 2928.5 | 2894.4 | 2814.0 | 2753.8 | 2727.8 | 2746.9 | 3032.0  | 3385.4  | 3166.2  | 2764.8  |
| 37.5° | 3195.7 | 3212.5 | 3177.8 | 3066.7 | 2988.7 | 2979.4 | 3000.8 | 3262.8  | 3722.1  | 3500.0  | 3032.6  |
| 40°   | 3453.1 | 3456.0 | 3424.8 | 3334.0 | 3253.6 | 3238.5 | 3292.3 | 3542.8  | 4119.4  | 3899.1  | 3358.3  |
| 42.5° | 3719.2 | 3725.0 | 3672.3 | 3588.5 | 3529.5 | 3532.4 | 3593.7 | 3870.7  | 4575.2  | 4369.3  | 3733.1  |
| 45°   | 4034.4 | 4043.1 | 3985.3 | 3875.4 | 3821.6 | 3929.7 | 3904.3 | 4238.6  | 5075.0  | 4903.8  | 4163.4  |
| 47.5° | 4364.1 | 4377.4 | 4333.5 | 4230.5 | 4163.4 | 4312.1 | 4214.9 | 4646.4  | 5612.9  | 5477.0  | 4636.0  |
| 50°   | 4544.0 | 4563.1 | 4605.9 | 4598.4 | 4583.9 | 4559.0 | 4561.4 | 5083.7  | 6167.6  | 6073.9  | 5121.8  |
| 52.5° | 4447.4 | 4446.8 | 4603.0 | 4792.7 | 4995.2 | 5010.2 | 4983.6 | 5544.7  | 6685.9  | 6657.5  | 5579.4  |
| 55°   | 4005.5 | 4035.6 | 4272.1 | 4639.4 | 5192.4 | 5537.7 | 5616.4 | 6072.7  | 7194.9  | 7227.8  | 6043.8  |
| 57.5° | 3269.8 | 3294.6 | 3613.9 | 4125.8 | 4926.3 | 5851.2 | 6516.4 | 6840.3  | 7764.0  | 7917.9  | 6662.1  |
| 60°   | 2217.6 | 2247.7 | 2586.1 | 3200.9 | 4210.3 | 5676.5 | 7373.0 | 8210.0  | 8445.4  | 8795.3  | 7529.8  |
| 62.5° | 1303.2 | 1330.3 | 1606.2 | 2019.2 | 2964.4 | 4865.0 | 7749.0 | 10158.6 | 9527.6  | 10119.3 | 8853.2  |
| 65°   | 897.1  | 915.6  | 1049.8 | 1256.9 | 1703.4 | 3276.7 | 7282.8 | 11504.0 | 11192.8 | 11759.7 | 10387.7 |
| 67.5° | 721.9  | 719.5  | 826.0  | 967.1  | 1096.7 | 1689.5 | 5507.1 | 11351.9 | 12657.4 | 12894.0 | 11184.2 |
| 70°   | 594.6  | 592.3  | 664.6  | 781.4  | 876.3  | 951.5  | 2999.6 | 9579.7  | 12358.9 | 12454.9 | 10450.7 |
| 72.5° | 497.4  | 499.7  | 546.0  | 632.8  | 719.0  | 716.7  | 1318.2 | 6739.1  | 9722.5  | 10386.5 | 8330.9  |
| 75°   | 419.9  | 421.1  | 451.7  | 513.1  | 583.6  | 577.3  | 714.9  | 3650.9  | 5651.7  | 6113.8  | 4618.0  |
| 77.5° | 357.5  | 358.6  | 378.3  | 412.4  | 462.7  | 460.4  | 521.7  | 1577.3  | 2357.6  | 2328.7  | 1579.6  |
| 80°   | 318.7  | 318.7  | 328.0  | 334.3  | 362.1  | 351.7  | 387.0  | 757.7   | 996.6   | 920.3   | 630.5   |
| 82.5° | 249.9  | 251.0  | 307.7  | 305.4  | 285.2  | 271.9  | 271.9  | 446.5   | 528.1   | 488.2   | 369.0   |
| 85°   | 140.6  | 140.0  | 198.4  | 239.5  | 251.0  | 191.5  | 189.7  | 249.9   | 287.5   | 253.3   | 178.7   |
| 87.5° | 60.2   | 61.3   | 92.0   | 106.4  | 142.3  | 119.2  | 117.4  | 129.0   | 146.3   | 126.7   | 82.7    |
| 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: P192151  
 CATALOG NUMBER: GAN-AF-03-LED-U-T2-7050-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 | 1632.3 |
| 2.5°  | 1632.9 | 1617.8 | 1584.8 | 1543.8 | 1506.8 | 1482.5 | 1460.5 | 1428.7 | 1430.4 | 1408.4 | 1392.2 |
| 5°    | 1631.7 | 1600.5 | 1524.1 | 1433.3 | 1346.0 | 1282.9 | 1235.5 | 1192.7 | 1182.3 | 1162.0 | 1149.9 |
| 7.5°  | 1632.9 | 1582.0 | 1453.5 | 1308.4 | 1200.2 | 1120.4 | 1079.9 | 1057.3 | 1052.1 | 1045.2 | 1045.8 |
| 10°   | 1636.9 | 1565.2 | 1376.0 | 1191.5 | 1078.2 | 1025.5 | 1015.7 | 1022.6 | 1030.7 | 1033.0 | 1033.6 |
| 12.5° | 1646.2 | 1550.1 | 1291.0 | 1087.4 | 1001.8 | 985.6  | 1002.4 | 1026.1 | 1041.7 | 1049.2 | 1048.7 |
| 15°   | 1667.0 | 1538.6 | 1209.5 | 1005.9 | 959.6  | 968.3  | 999.5  | 1033.0 | 1055.6 | 1066.0 | 1066.6 |
| 17.5° | 1689.5 | 1521.8 | 1125.6 | 943.4  | 928.4  | 950.3  | 989.1  | 1028.4 | 1056.2 | 1067.7 | 1070.1 |
| 20°   | 1719.0 | 1501.0 | 1037.7 | 896.5  | 898.9  | 923.7  | 960.2  | 999.5  | 1030.2 | 1040.0 | 1044.6 |
| 22.5° | 1757.8 | 1478.4 | 960.7  | 858.4  | 865.3  | 884.4  | 912.7  | 946.9  | 973.5  | 978.1  | 982.1  |
| 25°   | 1809.9 | 1454.1 | 899.4  | 823.7  | 826.6  | 837.5  | 856.6  | 876.9  | 895.4  | 890.2  | 894.2  |
| 27.5° | 1879.8 | 1433.3 | 853.7  | 791.8  | 786.6  | 789.0  | 798.8  | 805.1  | 815.0  | 800.5  | 802.3  |
| 30°   | 1962.0 | 1410.7 | 818.5  | 764.1  | 749.6  | 745.6  | 747.9  | 751.4  | 758.9  | 739.2  | 736.3  |
| 32.5° | 2057.4 | 1383.6 | 785.5  | 739.8  | 719.5  | 711.4  | 712.6  | 721.9  | 750.8  | 738.6  | 732.3  |
| 35°   | 2168.5 | 1352.9 | 750.8  | 713.2  | 699.3  | 687.7  | 686.6  | 715.5  | 801.7  | 794.2  | 788.4  |
| 37.5° | 2298.6 | 1322.2 | 716.1  | 683.1  | 684.3  | 671.5  | 667.5  | 700.5  | 811.5  | 782.0  | 778.0  |
| 40°   | 2464.0 | 1306.1 | 686.6  | 651.3  | 665.8  | 664.0  | 655.9  | 672.7  | 746.7  | 692.9  | 686.0  |
| 42.5° | 2668.8 | 1308.4 | 664.6  | 617.2  | 643.8  | 662.3  | 649.6  | 650.1  | 676.7  | 636.3  | 629.9  |
| 45°   | 2921.6 | 1335.6 | 649.0  | 590.0  | 618.9  | 660.5  | 647.2  | 638.0  | 640.3  | 618.9  | 615.4  |
| 47.5° | 3216.5 | 1391.7 | 638.0  | 567.4  | 595.2  | 654.2  | 646.7  | 634.5  | 629.3  | 617.7  | 614.9  |
| 50°   | 3544.5 | 1473.2 | 629.9  | 546.0  | 573.8  | 643.8  | 647.2  | 631.0  | 625.3  | 620.6  | 618.9  |
| 52.5° | 3866.7 | 1566.3 | 617.7  | 527.5  | 557.0  | 631.0  | 649.0  | 627.6  | 621.2  | 617.7  | 616.0  |
| 55°   | 4225.9 | 1682.6 | 599.2  | 511.9  | 543.1  | 614.9  | 649.0  | 622.4  | 615.4  | 616.0  | 615.4  |
| 57.5° | 4711.2 | 1870.6 | 577.3  | 498.6  | 526.4  | 595.2  | 638.0  | 616.6  | 607.9  | 608.5  | 609.1  |
| 60°   | 5469.5 | 2202.0 | 550.6  | 485.3  | 505.5  | 572.0  | 622.9  | 603.9  | 595.2  | 597.5  | 598.1  |
| 62.5° | 6584.6 | 2688.5 | 515.9  | 465.6  | 483.6  | 547.2  | 602.1  | 587.7  | 579.0  | 584.8  | 584.8  |
| 65°   | 7743.8 | 3117.6 | 473.1  | 440.7  | 460.4  | 520.0  | 576.1  | 567.4  | 558.7  | 572.0  | 571.5  |
| 67.5° | 8055.5 | 3021.6 | 430.3  | 413.6  | 437.3  | 489.9  | 544.9  | 540.2  | 535.6  | 558.7  | 557.6  |
| 70°   | 7156.1 | 2425.9 | 391.0  | 385.8  | 411.8  | 457.5  | 511.3  | 511.3  | 508.4  | 525.8  | 521.7  |
| 72.5° | 5452.1 | 1720.2 | 353.4  | 356.3  | 382.9  | 422.2  | 474.9  | 478.9  | 474.3  | 483.0  | 479.5  |
| 75°   | 2918.7 | 984.5  | 315.8  | 323.9  | 347.0  | 386.4  | 434.4  | 438.4  | 435.5  | 435.0  | 436.7  |
| 77.5° | 970.0  | 481.2  | 276.5  | 289.2  | 309.5  | 349.4  | 392.2  | 398.5  | 391.6  | 390.4  | 389.8  |
| 80°   | 432.1  | 302.5  | 233.1  | 249.9  | 267.8  | 307.1  | 347.6  | 352.8  | 345.3  | 355.7  | 342.4  |
| 82.5° | 277.6  | 199.0  | 186.8  | 205.3  | 222.7  | 264.9  | 303.1  | 304.2  | 297.3  | 345.3  | 294.4  |
| 85°   | 134.8  | 123.2  | 140.6  | 157.3  | 172.4  | 208.2  | 251.0  | 251.6  | 234.3  | 213.4  | 205.9  |
| 87.5° | 67.1   | 71.7   | 93.7   | 108.7  | 116.3  | 142.9  | 182.8  | 179.3  | 171.8  | 156.2  | 144.0  |
| 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)