

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: P191481

Luminaire Tested: **GAN-AF-03-LED-U-T3R-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15355.5 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

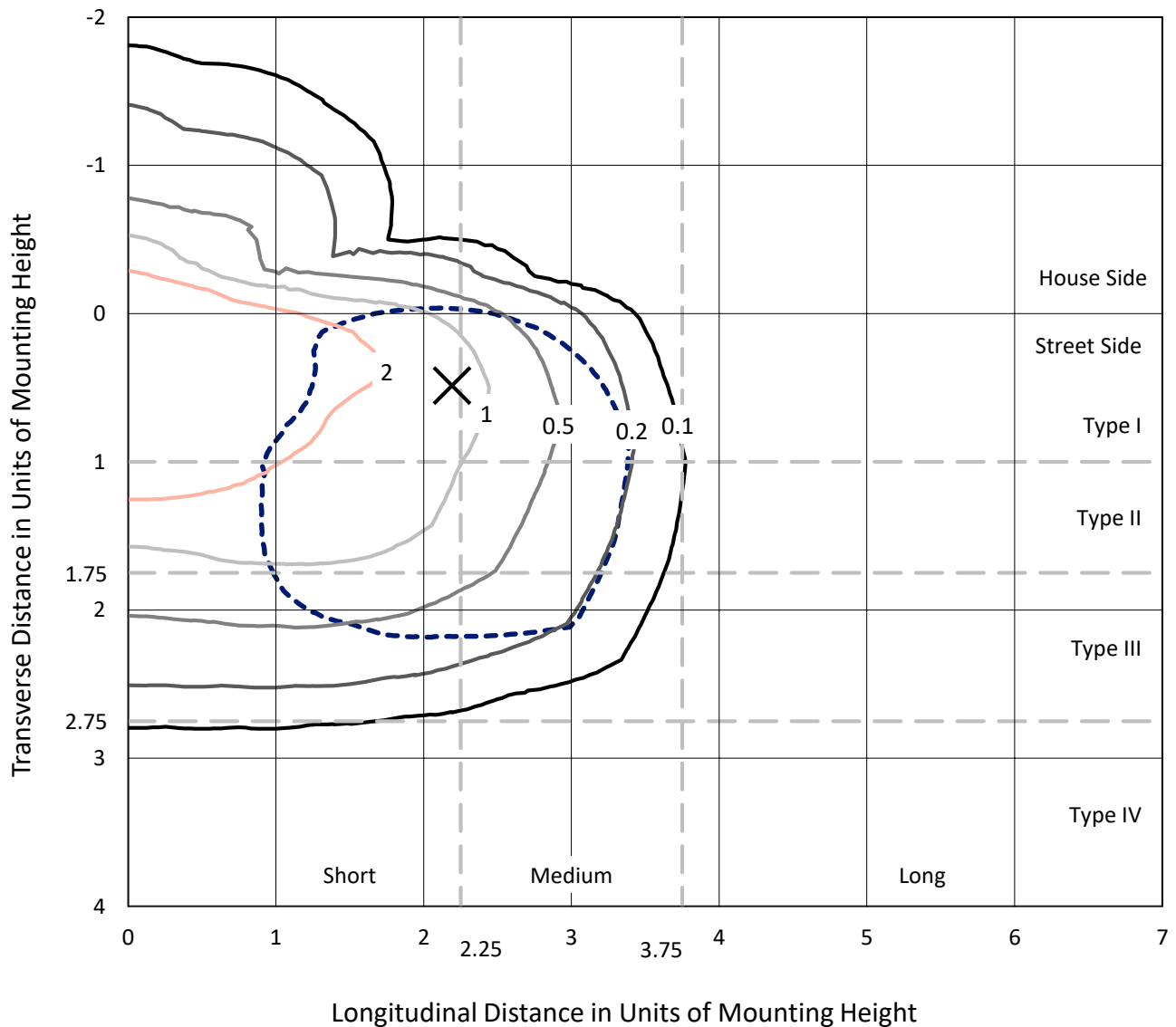
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191481
 CATALOG NUMBER: GAN-AF-03-LED-U-T3R-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

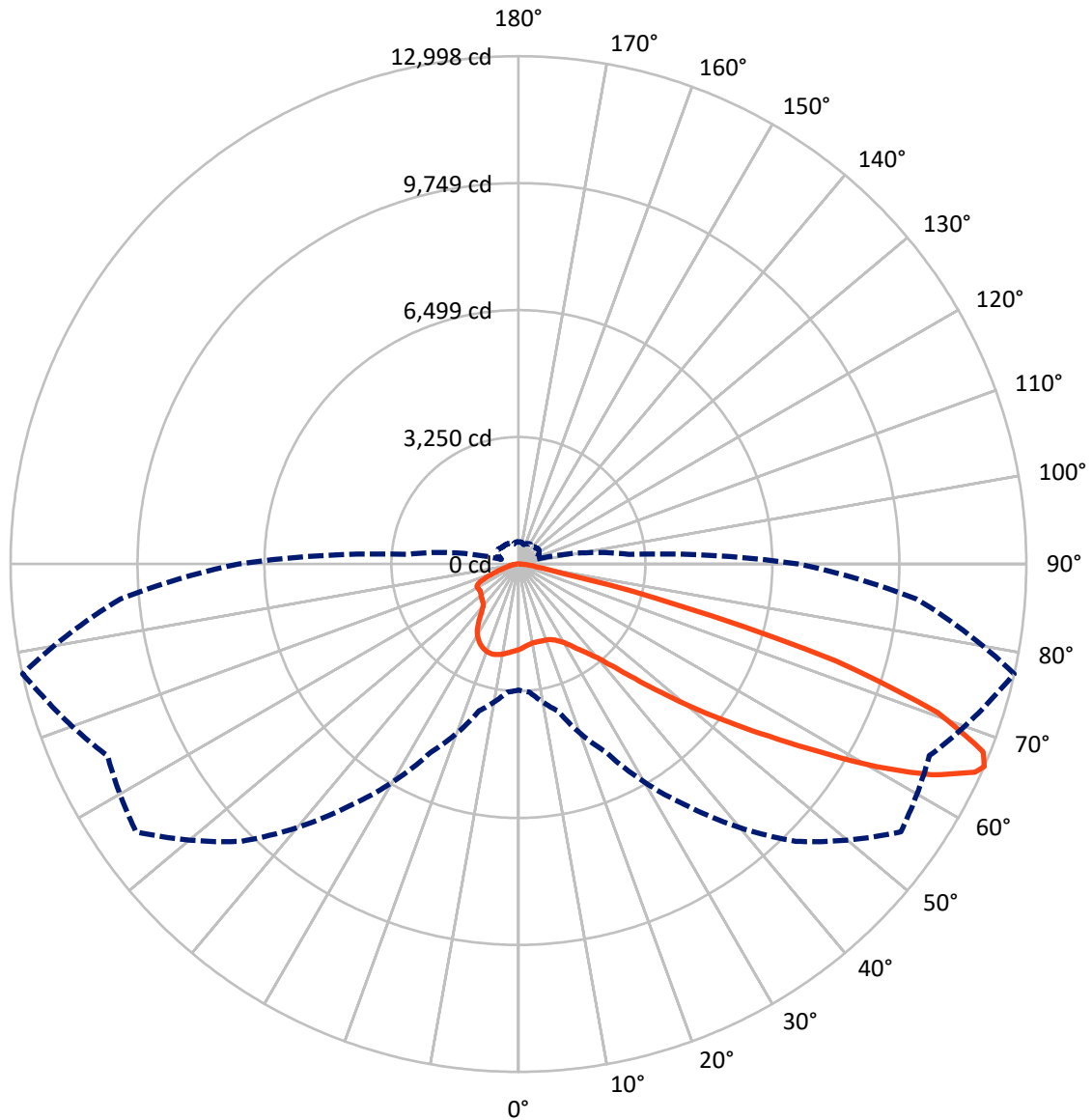
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191481
CATALOG NUMBER: GAN-AF-03-LED-U-T3R-800-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



REPORT NUMBER: P191481

CATALOG NUMBER: GAN-AF-03-LED-U-T3R-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2623.4 | 0.0 | 2623.4 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 12732.1 | 0.0 | 12732.1 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 15355.5 | 0.0 | 15355.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 195.5 | 1.3 |
| 10°-20° | 551.5 | 3.6 |
| 20°-30° | 941.3 | 6.1 |
| 30°-40° | 1506.8 | 9.8 |
| 40°-50° | 2327.9 | 15.2 |
| 50°-60° | 3301.8 | 21.5 |
| 60°-70° | 4416.9 | 28.8 |
| 70°-80° | 1918.2 | 12.5 |
| 80°-90° | 195.6 | 1.3 |
| 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° | 15355.5 | 100.0 |
| 0°-180° | 15355.5 | 100.0 |



REPORT NUMBER: P191481

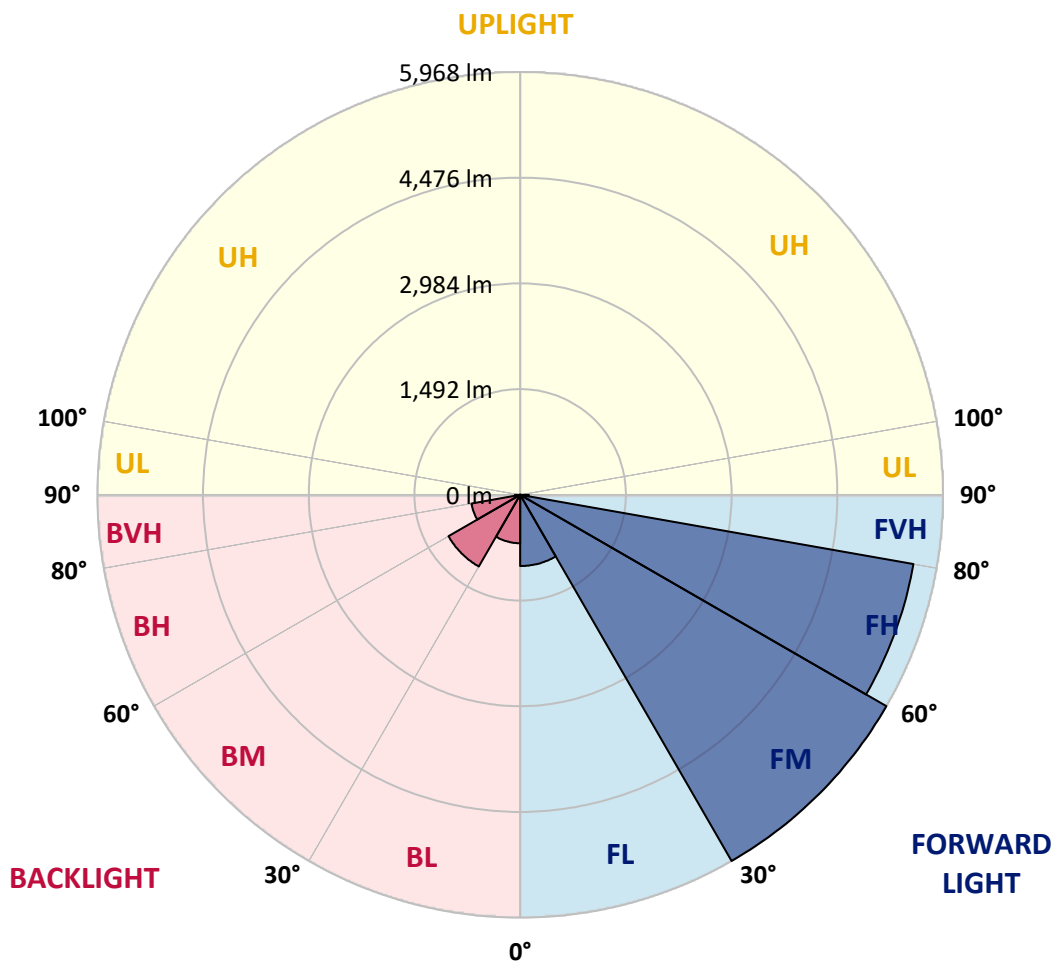
CATALOG NUMBER: GAN-AF-03-LED-U-T3R-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1005.1 | 6.5 | | | |
| FM | (30°-60°) | 5968.0 | 38.9 | | | |
| FH | (60°-80°) | 5636.4 | 36.7 | | | G3/7500 |
| FVH | (80°-90°) | 122.7 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 683.2 | 4.4 | B2/1000 | | |
| BM | (30°-60°) | 1168.6 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 698.7 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 72.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P191481
 CATALOG NUMBER: GAN-AF-03-LED-U-T3R-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 |
| 2.5° | 1935.7 | 1948.8 | 1959.7 | 1969.9 | 1990.2 | 2023.5 | 2062.0 | 2093.2 | 2138.2 | 2146.9 | 2170.8 |
| 5° | 1757.9 | 1757.9 | 1766.7 | 1782.0 | 1809.5 | 1859.5 | 1911.8 | 1981.5 | 2079.4 | 2102.6 | 2166.5 |
| 7.5° | 1671.6 | 1672.4 | 1677.4 | 1690.5 | 1714.5 | 1760.2 | 1817.5 | 1899.5 | 2032.2 | 2070.7 | 2179.5 |
| 10° | 1703.6 | 1696.4 | 1685.4 | 1678.9 | 1682.5 | 1709.4 | 1763.8 | 1855.2 | 2003.2 | 2052.6 | 2208.6 |
| 12.5° | 1882.0 | 1868.3 | 1830.6 | 1780.4 | 1732.6 | 1713.0 | 1744.9 | 1834.2 | 1990.9 | 2048.3 | 2247.0 |
| 15° | 2173.8 | 2167.9 | 2097.6 | 1993.8 | 1877.7 | 1780.4 | 1758.8 | 1826.2 | 1992.3 | 2053.3 | 2292.7 |
| 17.5° | 2539.4 | 2531.4 | 2438.5 | 2287.6 | 2098.3 | 1908.9 | 1807.3 | 1832.7 | 1997.4 | 2062.0 | 2336.9 |
| 20° | 2908.7 | 2884.0 | 2783.9 | 2603.9 | 2360.9 | 2083.8 | 1887.9 | 1849.4 | 2004.0 | 2071.4 | 2383.4 |
| 22.5° | 3184.4 | 3164.1 | 3074.1 | 2899.2 | 2619.2 | 2286.2 | 1996.0 | 1878.4 | 2025.0 | 2099.0 | 2440.8 |
| 25° | 3426.8 | 3428.2 | 3338.9 | 3169.9 | 2880.4 | 2500.9 | 2135.3 | 1956.1 | 2078.6 | 2155.6 | 2519.1 |
| 27.5° | 3726.4 | 3709.0 | 3625.5 | 3458.0 | 3138.7 | 2717.9 | 2303.6 | 2062.7 | 2158.5 | 2236.2 | 2622.1 |
| 30° | 4084.8 | 4072.5 | 3976.0 | 3785.8 | 3425.2 | 2950.8 | 2495.9 | 2186.8 | 2261.5 | 2342.0 | 2757.1 |
| 32.5° | 4506.3 | 4500.6 | 4400.4 | 4155.9 | 3756.2 | 3225.1 | 2721.5 | 2350.7 | 2415.3 | 2498.8 | 2950.8 |
| 35° | 5001.2 | 5001.9 | 4883.7 | 4589.8 | 4118.2 | 3544.3 | 2977.6 | 2561.9 | 2602.5 | 2689.5 | 3181.5 |
| 37.5° | 5305.8 | 5342.9 | 5298.7 | 4999.0 | 4528.1 | 3901.2 | 3310.0 | 2842.0 | 2815.9 | 2903.6 | 3428.9 |
| 40° | 5371.2 | 5416.2 | 5556.2 | 5403.8 | 4986.7 | 4294.4 | 3604.5 | 3111.1 | 3078.5 | 3185.9 | 3747.4 |
| 42.5° | 5279.8 | 5342.2 | 5638.2 | 5745.6 | 5473.5 | 4779.1 | 4000.7 | 3510.9 | 3469.5 | 3613.9 | 4143.6 |
| 45° | 5225.3 | 5271.8 | 5614.3 | 5923.3 | 5895.8 | 5326.9 | 4504.9 | 4012.9 | 3997.7 | 4187.1 | 4600.6 |
| 47.5° | 5131.0 | 5173.1 | 5502.6 | 5964.7 | 6143.8 | 5829.0 | 5110.8 | 4626.8 | 4656.6 | 4904.6 | 5116.5 |
| 50° | 5181.9 | 5199.2 | 5377.8 | 5859.5 | 6215.8 | 6196.8 | 5787.7 | 5337.9 | 5439.3 | 5749.2 | 5700.6 |
| 52.5° | 5174.6 | 5219.5 | 5363.2 | 5686.8 | 6225.2 | 6423.9 | 6454.4 | 6130.9 | 6344.9 | 6700.3 | 6348.5 |
| 55° | 4183.5 | 4266.2 | 5192.7 | 5643.3 | 6258.5 | 6646.7 | 7047.9 | 6966.6 | 7365.7 | 7780.0 | 7079.8 |
| 57.5° | 3994.8 | 4047.1 | 4560.7 | 5734.7 | 6435.6 | 7071.9 | 7708.1 | 7886.6 | 8554.1 | 9035.2 | 7970.8 |
| 60° | 3957.8 | 4022.4 | 4554.2 | 5846.4 | 6794.7 | 7764.7 | 8686.9 | 9000.3 | 10000.2 | 10526.9 | 9004.0 |
| 62.5° | 3842.5 | 3912.1 | 4511.4 | 5831.9 | 7304.8 | 8723.2 | 9939.9 | 10184.4 | 11371.4 | 11883.6 | 9868.1 |
| 65° | 3476.8 | 3542.1 | 4162.4 | 5597.6 | 7648.7 | 9746.2 | 11422.9 | 11269.8 | 12453.9 | 12839.2 | 10299.1 |
| 66° | 3226.5 | 3290.3 | 3887.4 | 5321.8 | 7568.8 | 10036.4 | 11948.3 | 11605.8 | 12696.3 | 12998.1 | 10214.9 |
| 67.5° | 2768.6 | 2818.7 | 3353.4 | 4704.4 | 7144.4 | 10117.7 | 12390.1 | 11858.3 | 12721.6 | 12828.3 | 9733.9 |
| 70° | 1749.2 | 1763.8 | 2179.5 | 3247.6 | 5408.2 | 8774.7 | 11717.5 | 11231.4 | 11672.5 | 11383.7 | 8160.2 |
| 72.5° | 758.9 | 753.8 | 1046.3 | 1652.1 | 3061.8 | 5887.8 | 9478.5 | 9267.3 | 9156.3 | 8497.6 | 5712.2 |
| 75° | 422.3 | 428.1 | 543.4 | 766.9 | 1244.3 | 2892.0 | 6200.5 | 5933.5 | 5009.9 | 4274.9 | 2590.2 |
| 77.5° | 338.8 | 346.8 | 450.6 | 544.1 | 558.6 | 1008.5 | 2901.4 | 2360.9 | 1421.3 | 1140.6 | 719.7 |
| 80° | 267.7 | 282.2 | 393.2 | 423.7 | 376.5 | 415.7 | 937.4 | 749.5 | 562.3 | 515.9 | 373.0 |
| 82.5° | 211.9 | 222.0 | 337.4 | 320.7 | 263.4 | 280.1 | 449.1 | 437.5 | 365.7 | 333.1 | 215.5 |
| 85° | 152.3 | 171.2 | 277.1 | 241.6 | 172.7 | 188.6 | 298.2 | 285.8 | 209.7 | 171.2 | 95.0 |
| 87.5° | 62.4 | 81.2 | 195.9 | 160.3 | 96.5 | 87.8 | 148.7 | 140.0 | 99.4 | 72.5 | 47.2 |
| 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: P191481
 CATALOG NUMBER: GAN-AF-03-LED-U-T3R-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 |
| 2.5° | 2186.0 | 2203.4 | 2225.9 | 2239.8 | 2247.0 | 2252.1 | 2260.1 | 2259.3 | 2261.5 | 2262.3 | 2265.1 |
| 5° | 2200.6 | 2229.6 | 2262.3 | 2271.0 | 2271.0 | 2263.0 | 2255.0 | 2241.9 | 2236.9 | 2235.4 | 2236.9 |
| 7.5° | 2238.3 | 2270.2 | 2298.5 | 2288.3 | 2266.6 | 2234.6 | 2193.3 | 2157.0 | 2137.5 | 2130.9 | 2129.5 |
| 10° | 2286.2 | 2324.7 | 2336.2 | 2297.8 | 2233.9 | 2157.0 | 2075.1 | 2015.5 | 1981.5 | 1972.0 | 1969.1 |
| 12.5° | 2344.2 | 2380.5 | 2364.6 | 2283.3 | 2165.0 | 2041.0 | 1927.8 | 1832.7 | 1761.6 | 1739.1 | 1737.7 |
| 15° | 2408.0 | 2436.4 | 2380.5 | 2238.3 | 2062.0 | 1879.2 | 1677.4 | 1513.5 | 1425.0 | 1396.6 | 1394.5 |
| 17.5° | 2467.6 | 2482.1 | 2371.1 | 2160.0 | 1910.4 | 1614.3 | 1346.6 | 1220.4 | 1189.9 | 1197.2 | 1198.6 |
| 20° | 2518.4 | 2518.4 | 2339.2 | 2047.4 | 1671.6 | 1265.4 | 1096.3 | 1094.1 | 1115.8 | 1137.6 | 1142.0 |
| 22.5° | 2574.3 | 2540.8 | 2283.3 | 1888.6 | 1333.5 | 1035.3 | 1010.7 | 1031.0 | 1055.7 | 1079.6 | 1083.2 |
| 25° | 2643.1 | 2559.0 | 2205.7 | 1647.7 | 1048.4 | 940.3 | 949.7 | 966.4 | 978.8 | 994.0 | 996.1 |
| 27.5° | 2720.0 | 2582.2 | 2103.4 | 1316.1 | 909.8 | 880.8 | 888.0 | 893.9 | 892.4 | 898.3 | 899.7 |
| 30° | 2812.2 | 2609.0 | 1963.3 | 1028.8 | 852.5 | 830.0 | 816.9 | 811.9 | 811.9 | 821.3 | 824.9 |
| 32.5° | 2935.6 | 2648.9 | 1762.3 | 881.6 | 824.9 | 793.7 | 751.7 | 732.8 | 740.0 | 772.0 | 779.2 |
| 35° | 3071.2 | 2691.8 | 1490.2 | 831.5 | 819.2 | 777.0 | 711.8 | 676.9 | 677.7 | 707.4 | 716.9 |
| 37.5° | 3219.2 | 2746.2 | 1192.0 | 822.0 | 832.2 | 777.7 | 690.7 | 642.8 | 623.3 | 623.3 | 626.9 |
| 40° | 3408.6 | 2802.1 | 964.9 | 828.6 | 859.8 | 786.4 | 679.9 | 616.0 | 560.9 | 562.3 | 565.2 |
| 42.5° | 3655.3 | 2849.9 | 843.1 | 842.4 | 893.1 | 798.1 | 679.1 | 580.4 | 532.5 | 565.2 | 594.9 |
| 45° | 3929.6 | 2873.9 | 789.4 | 854.7 | 919.9 | 805.4 | 667.5 | 574.6 | 536.1 | 633.4 | 690.0 |
| 47.5° | 4245.1 | 2860.1 | 759.6 | 859.1 | 926.5 | 805.4 | 654.5 | 588.4 | 561.6 | 733.6 | 799.5 |
| 50° | 4591.2 | 2820.2 | 730.6 | 850.4 | 924.3 | 803.9 | 666.8 | 602.2 | 571.0 | 750.9 | 796.7 |
| 52.5° | 4998.2 | 2786.8 | 700.1 | 831.5 | 909.1 | 796.0 | 681.3 | 596.4 | 541.2 | 682.7 | 714.6 |
| 55° | 5462.6 | 2796.2 | 666.0 | 804.7 | 885.2 | 780.7 | 676.2 | 573.2 | 510.0 | 601.5 | 621.0 |
| 57.5° | 6056.1 | 2908.7 | 625.4 | 770.5 | 852.5 | 755.2 | 658.1 | 562.3 | 500.6 | 545.6 | 557.2 |
| 60° | 6718.5 | 3104.6 | 574.6 | 736.4 | 811.9 | 714.6 | 644.3 | 567.3 | 504.9 | 541.2 | 547.1 |
| 62.5° | 7204.6 | 3218.5 | 531.1 | 686.4 | 756.8 | 669.7 | 626.9 | 573.9 | 516.6 | 556.5 | 555.1 |
| 65° | 7336.7 | 3031.3 | 476.7 | 613.1 | 682.0 | 622.5 | 605.1 | 581.1 | 521.7 | 568.9 | 562.3 |
| 66° | 7151.7 | 2829.6 | 452.8 | 579.0 | 644.3 | 599.3 | 594.2 | 580.4 | 519.5 | 570.3 | 559.3 |
| 67.5° | 6702.6 | 2416.0 | 411.4 | 529.0 | 584.1 | 564.5 | 576.8 | 573.9 | 513.7 | 568.9 | 553.6 |
| 70° | 5466.2 | 1648.4 | 351.9 | 440.4 | 486.1 | 496.9 | 543.4 | 550.7 | 494.8 | 543.4 | 510.0 |
| 72.5° | 3819.3 | 1004.1 | 311.3 | 341.8 | 393.2 | 423.7 | 497.8 | 518.7 | 469.4 | 474.5 | 442.6 |
| 75° | 1845.8 | 533.3 | 282.2 | 264.8 | 305.5 | 354.0 | 442.6 | 475.3 | 429.5 | 396.9 | 385.2 |
| 77.5° | 575.3 | 325.8 | 239.5 | 213.3 | 239.5 | 285.8 | 370.0 | 416.4 | 382.4 | 332.3 | 328.0 |
| 80° | 309.0 | 239.5 | 184.3 | 171.2 | 189.3 | 224.2 | 290.9 | 347.5 | 328.7 | 298.2 | 266.3 |
| 82.5° | 203.9 | 155.3 | 136.4 | 132.8 | 144.3 | 171.2 | 216.3 | 288.1 | 288.1 | 255.4 | 185.8 |
| 85° | 105.2 | 95.0 | 93.6 | 93.6 | 100.9 | 114.0 | 147.3 | 222.0 | 236.5 | 134.9 | 111.7 |
| 87.5° | 52.3 | 54.4 | 50.7 | 53.0 | 56.6 | 55.9 | 70.4 | 111.7 | 133.5 | 81.9 | 68.2 |
| 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)