

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: P191079

Luminaire Tested: **GAN-AF-01-LED-U-SL2-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5046.2 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

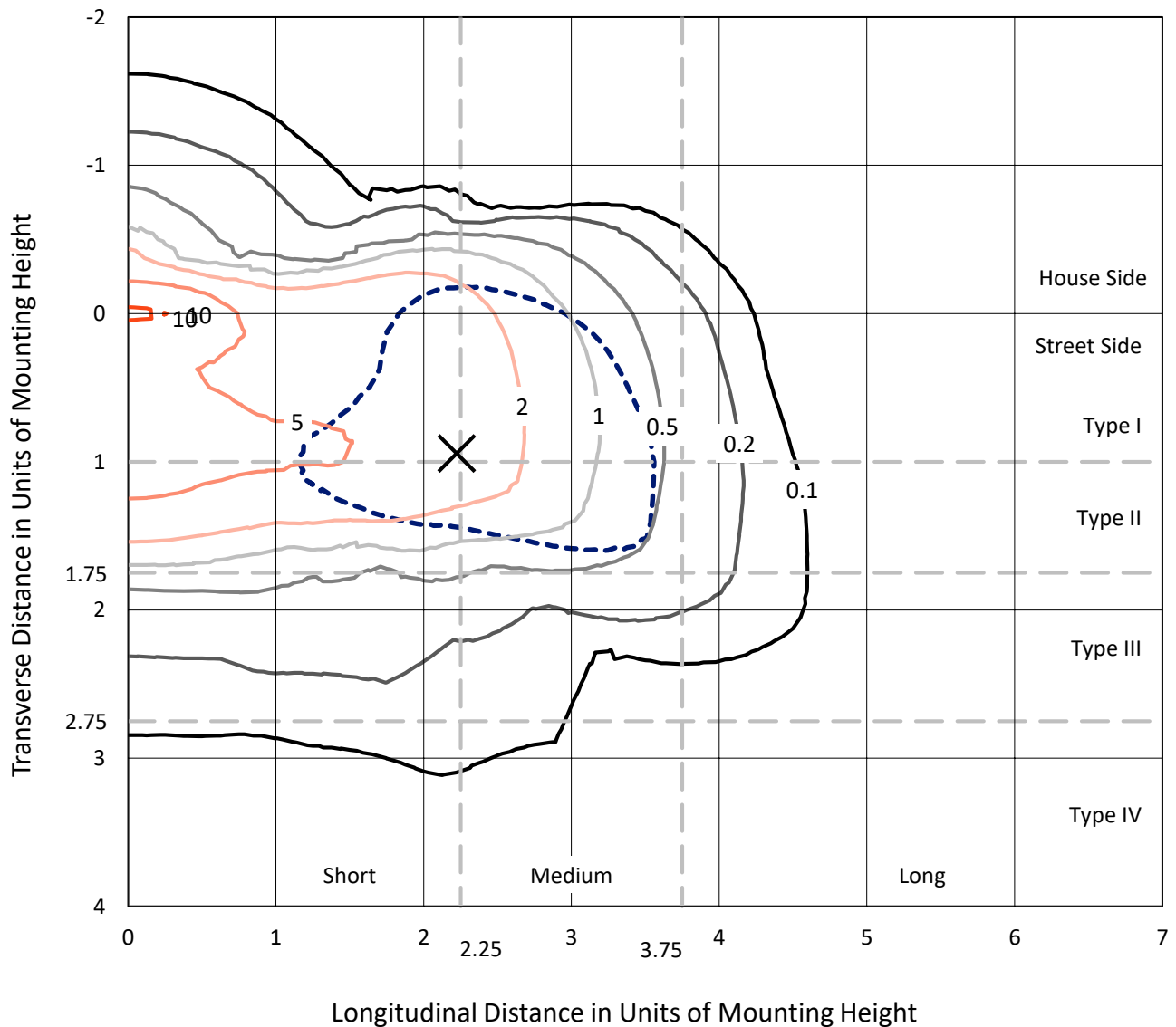
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191079
 CATALOG NUMBER: GAN-AF-01-LED-U-SL2-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

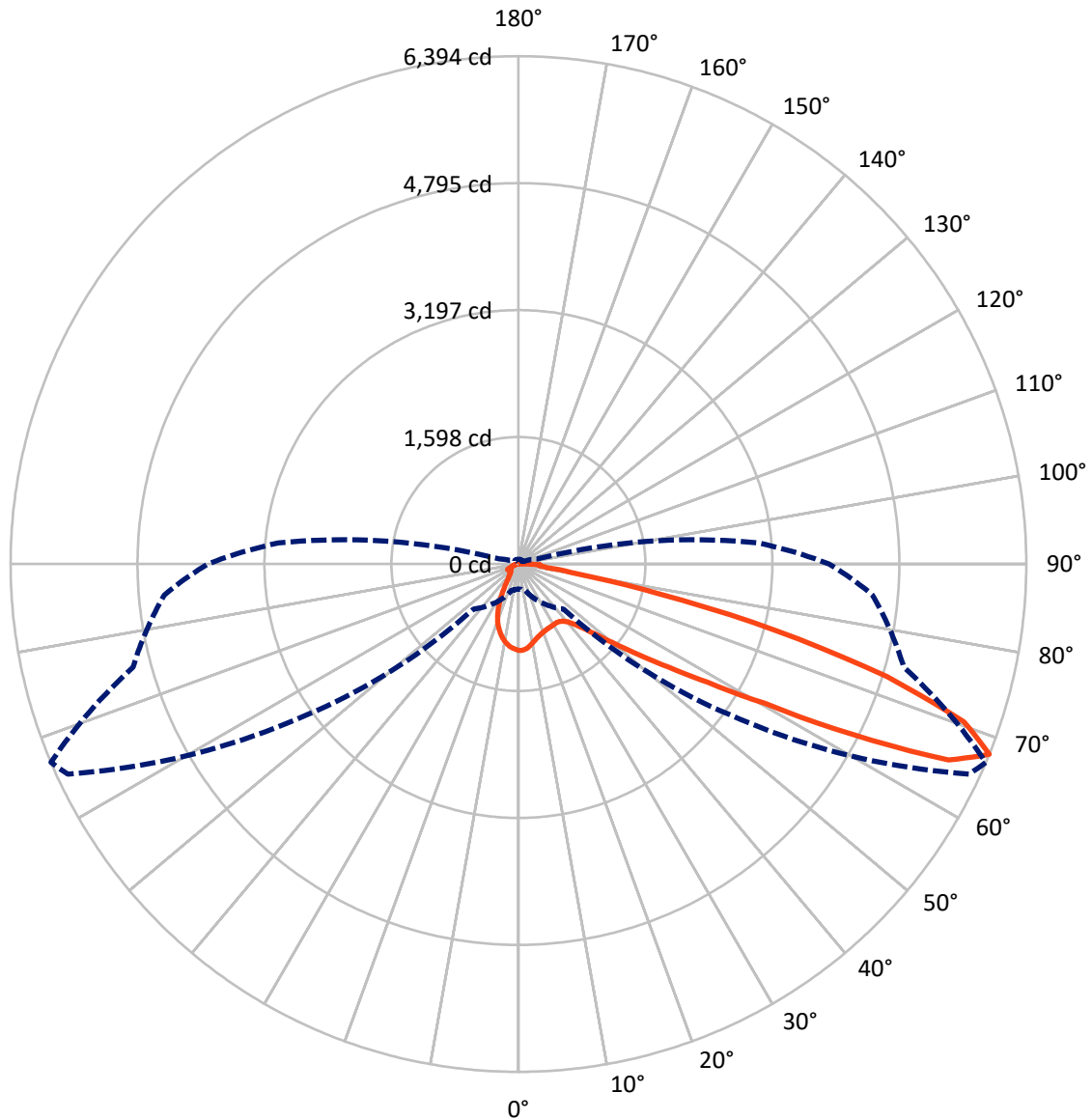
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191079
CATALOG NUMBER: GAN-AF-01-LED-U-SL2-800-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191079

CATALOG NUMBER: GAN-AF-01-LED-U-SL2-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 836.1 | 0.0 | 836.1 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 4210.1 | 0.0 | 4210.1 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 5046.2 | 0.0 | 5046.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.9 | 1.8 |
| 10°-20° | 214.9 | 4.3 |
| 20°-30° | 291.3 | 5.8 |
| 30°-40° | 414.1 | 8.2 |
| 40°-50° | 692.7 | 13.7 |
| 50°-60° | 1095.9 | 21.7 |
| 60°-70° | 1396.1 | 27.7 |
| 70°-80° | 731.2 | 14.5 |
| 80°-90° | 117.3 | 2.3 |
| 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° | 5046.2 | 100.0 |
| 0°-180° | 5046.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191079

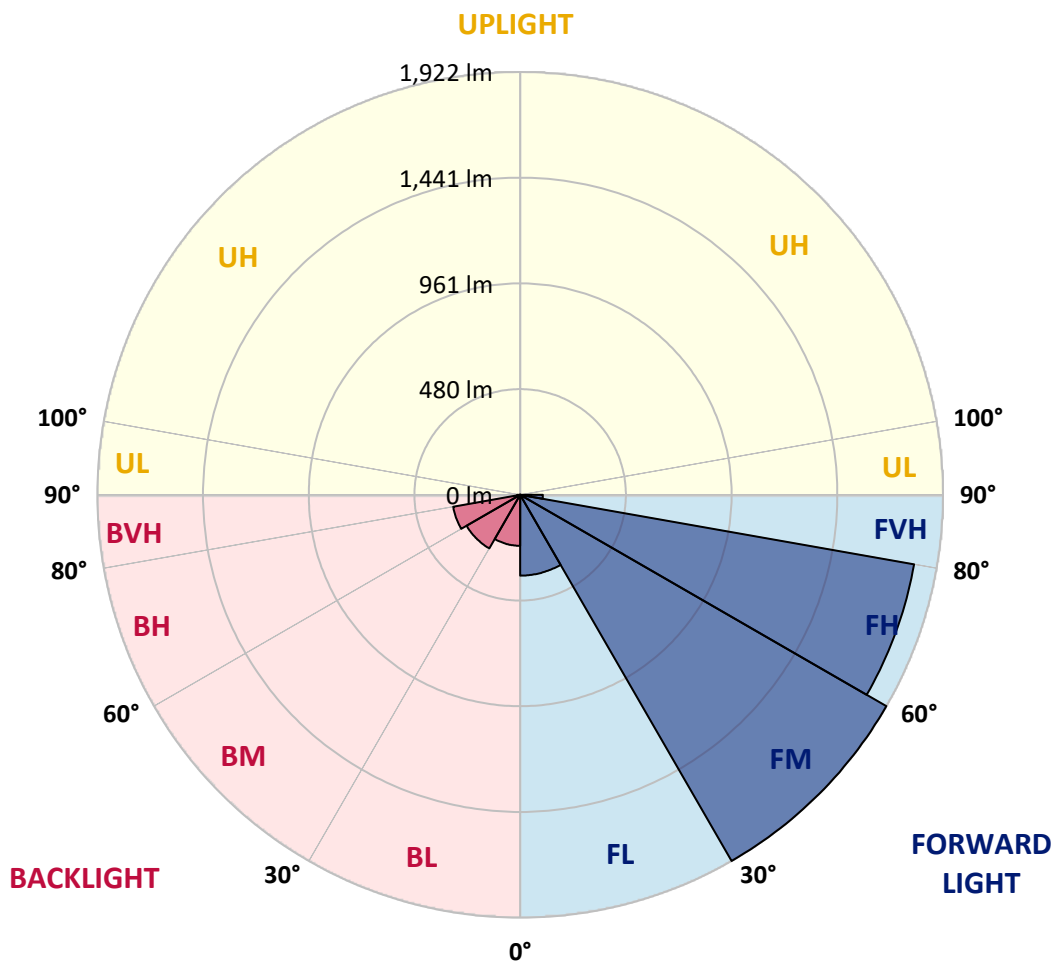
CATALOG NUMBER: GAN-AF-01-LED-U-SL2-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 367.2 | 7.3 | | | |
| FM (30°-60°) | 1921.7 | 38.1 | | | |
| FH (60°-80°) | 1818.0 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 103.1 | 2.0 | | | G2/225 |
| BL (0°-30°) | 231.7 | 4.6 | B1/500 | | |
| BM (30°-60°) | 281.0 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 309.3 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.2 | 0.3 | | | 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 II Short





REPORT NUMBER: P191079

CATALOG NUMBER: GAN-AF-01-LED-U-SL2-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 |
| 2.5° | 1043.6 | 1045.5 | 1050.9 | 1054.4 | 1070.0 | 1076.8 | 1081.5 | 1086.2 | 1087.0 | 1089.2 | 1087.0 |
| 5° | 934.2 | 937.9 | 948.1 | 959.5 | 989.9 | 1013.8 | 1038.9 | 1065.1 | 1069.8 | 1086.7 | 1091.5 |
| 7.5° | 849.4 | 848.3 | 856.8 | 870.4 | 901.5 | 934.7 | 978.8 | 1030.7 | 1041.0 | 1079.0 | 1097.4 |
| 10° | 787.4 | 786.6 | 795.5 | 809.8 | 839.3 | 870.7 | 920.5 | 991.6 | 1006.1 | 1066.8 | 1103.2 |
| 12.5° | 741.5 | 741.8 | 750.7 | 766.5 | 796.6 | 828.2 | 878.7 | 953.8 | 972.2 | 1052.6 | 1109.1 |
| 15° | 711.2 | 713.2 | 720.4 | 737.0 | 766.5 | 798.0 | 847.6 | 925.5 | 946.1 | 1041.5 | 1115.8 |
| 17.5° | 701.0 | 704.2 | 706.8 | 718.9 | 744.1 | 775.7 | 824.2 | 904.6 | 926.5 | 1033.7 | 1121.8 |
| 20° | 710.4 | 714.2 | 709.4 | 713.7 | 729.6 | 757.5 | 805.8 | 888.1 | 910.5 | 1025.0 | 1122.6 |
| 22.5° | 751.1 | 754.5 | 740.6 | 728.3 | 727.4 | 744.3 | 790.5 | 875.2 | 898.4 | 1018.6 | 1122.8 |
| 25° | 822.5 | 824.7 | 801.3 | 772.9 | 745.3 | 739.6 | 779.9 | 866.2 | 890.9 | 1012.8 | 1118.1 |
| 27.5° | 910.0 | 911.8 | 884.9 | 843.1 | 787.6 | 750.7 | 776.1 | 861.0 | 886.6 | 1007.8 | 1110.1 |
| 30° | 1016.5 | 1024.8 | 988.7 | 935.9 | 855.1 | 783.9 | 783.6 | 858.3 | 881.9 | 999.3 | 1094.5 |
| 32.5° | 1125.6 | 1129.0 | 1104.2 | 1050.7 | 945.8 | 842.1 | 804.6 | 860.3 | 880.7 | 989.2 | 1074.5 |
| 35° | 1236.0 | 1240.5 | 1224.4 | 1181.3 | 1070.0 | 927.4 | 845.4 | 872.0 | 888.4 | 985.7 | 1060.6 |
| 37.5° | 1379.1 | 1385.1 | 1362.7 | 1313.0 | 1221.1 | 1043.2 | 913.3 | 901.3 | 912.1 | 995.6 | 1056.4 |
| 40° | 1605.3 | 1602.6 | 1537.1 | 1462.9 | 1386.3 | 1191.2 | 1010.4 | 951.1 | 957.3 | 1027.8 | 1069.3 |
| 42.5° | 1868.6 | 1861.9 | 1749.1 | 1632.7 | 1568.0 | 1370.4 | 1138.7 | 1037.5 | 1036.2 | 1091.0 | 1114.8 |
| 45° | 2078.6 | 2073.1 | 1971.6 | 1828.0 | 1776.3 | 1574.4 | 1304.7 | 1166.1 | 1156.9 | 1191.2 | 1198.9 |
| 47.5° | 2192.4 | 2192.6 | 2134.1 | 2017.0 | 2015.6 | 1833.7 | 1518.0 | 1352.2 | 1336.3 | 1352.4 | 1344.3 |
| 50° | 2152.5 | 2157.7 | 2151.6 | 2114.2 | 2234.1 | 2173.7 | 1796.4 | 1611.8 | 1579.6 | 1595.6 | 1564.0 |
| 52.5° | 1959.9 | 1966.6 | 2003.4 | 2060.7 | 2326.0 | 2584.5 | 2205.5 | 1934.3 | 1897.0 | 1891.2 | 1856.1 |
| 55° | 1618.5 | 1626.7 | 1701.9 | 1857.4 | 2249.6 | 2860.5 | 2851.1 | 2345.4 | 2285.9 | 2231.9 | 2216.9 |
| 57.5° | 1115.6 | 1129.2 | 1250.3 | 1481.1 | 2002.4 | 2943.8 | 3619.7 | 2931.4 | 2810.5 | 2621.8 | 2625.3 |
| 60° | 628.8 | 644.8 | 787.4 | 997.2 | 1503.7 | 2853.3 | 4204.5 | 3819.1 | 3563.8 | 3078.5 | 3104.3 |
| 62.5° | 399.9 | 417.1 | 525.3 | 692.7 | 902.3 | 2365.6 | 4444.1 | 5053.1 | 4728.8 | 3641.4 | 3666.8 |
| 65° | 323.8 | 331.2 | 382.3 | 571.8 | 655.2 | 1425.2 | 4262.2 | 6069.6 | 5948.7 | 4355.8 | 4237.4 |
| 67.5° | 316.0 | 318.5 | 344.9 | 480.1 | 628.3 | 801.1 | 3399.8 | 6259.7 | 6393.9 | 5023.0 | 4475.0 |
| 70° | 312.3 | 321.0 | 388.7 | 458.1 | 601.7 | 675.7 | 2043.0 | 5738.7 | 5950.4 | 5197.4 | 4158.7 |
| 72.5° | 151.5 | 151.1 | 195.6 | 414.3 | 677.9 | 700.7 | 1049.6 | 4643.3 | 4855.7 | 4502.9 | 3417.4 |
| 75° | 122.1 | 111.7 | 106.8 | 151.8 | 651.7 | 723.6 | 668.9 | 3195.0 | 3348.7 | 3019.0 | 2100.7 |
| 77.5° | 116.0 | 103.5 | 94.8 | 95.0 | 275.5 | 767.4 | 566.6 | 1768.3 | 1813.1 | 1363.7 | 575.6 |
| 80° | 96.1 | 84.6 | 78.4 | 88.4 | 133.4 | 730.9 | 612.6 | 800.3 | 734.4 | 334.9 | 191.6 |
| 82.5° | 66.7 | 60.8 | 59.0 | 74.2 | 106.8 | 520.9 | 712.5 | 430.0 | 360.6 | 167.8 | 118.3 |
| 85° | 42.6 | 36.3 | 40.3 | 54.0 | 83.2 | 240.4 | 733.9 | 335.2 | 266.5 | 106.5 | 66.7 |
| 87.5° | 19.6 | 16.0 | 19.9 | 29.9 | 54.2 | 82.9 | 698.3 | 376.5 | 274.5 | 56.3 | 42.0 |
| 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: P191079

CATALOG NUMBER: GAN-AF-01-LED-U-SL2-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 | 1088.4 |
| 2.5° | 1088.9 | 1084.2 | 1080.5 | 1073.5 | 1065.8 | 1058.3 | 1051.6 | 1043.2 | 1040.6 | 1038.4 | 1041.9 |
| 5° | 1092.4 | 1087.7 | 1074.0 | 1052.6 | 1029.0 | 1006.8 | 984.7 | 965.8 | 954.1 | 947.6 | 951.3 |
| 7.5° | 1097.6 | 1091.0 | 1062.5 | 1023.3 | 980.7 | 941.9 | 901.8 | 869.7 | 846.1 | 834.9 | 838.1 |
| 10° | 1102.4 | 1089.4 | 1043.2 | 984.2 | 922.0 | 864.3 | 801.1 | 748.8 | 709.9 | 689.6 | 694.5 |
| 12.5° | 1104.4 | 1083.7 | 1016.0 | 935.4 | 850.1 | 765.5 | 672.4 | 594.2 | 538.5 | 518.1 | 513.8 |
| 15° | 1106.4 | 1077.3 | 986.2 | 879.9 | 763.2 | 643.5 | 513.1 | 419.5 | 373.3 | 363.0 | 360.8 |
| 17.5° | 1106.8 | 1066.0 | 952.4 | 819.7 | 661.4 | 498.5 | 350.9 | 291.4 | 291.6 | 308.1 | 310.1 |
| 20° | 1101.6 | 1049.3 | 911.2 | 744.8 | 539.5 | 344.6 | 240.9 | 230.7 | 268.2 | 309.3 | 314.3 |
| 22.5° | 1089.7 | 1027.2 | 864.7 | 657.5 | 399.9 | 227.0 | 186.4 | 197.6 | 246.1 | 296.3 | 302.1 |
| 25° | 1074.5 | 1000.3 | 809.8 | 556.2 | 264.7 | 162.2 | 156.3 | 169.9 | 202.9 | 236.4 | 239.7 |
| 27.5° | 1053.8 | 968.5 | 748.1 | 440.2 | 172.0 | 133.6 | 137.6 | 146.8 | 160.3 | 175.2 | 176.7 |
| 30° | 1027.2 | 930.5 | 682.1 | 321.0 | 129.9 | 120.2 | 125.9 | 130.9 | 136.7 | 145.1 | 145.9 |
| 32.5° | 996.7 | 893.9 | 614.4 | 221.7 | 115.2 | 113.2 | 117.7 | 120.2 | 124.7 | 129.9 | 130.4 |
| 35° | 971.0 | 859.0 | 544.2 | 156.8 | 108.9 | 108.0 | 111.0 | 112.0 | 116.2 | 121.9 | 122.4 |
| 37.5° | 956.4 | 830.6 | 471.8 | 126.4 | 104.8 | 103.3 | 105.1 | 105.1 | 111.0 | 119.5 | 120.7 |
| 40° | 957.3 | 815.0 | 399.4 | 114.3 | 101.3 | 99.3 | 99.5 | 99.5 | 107.2 | 116.4 | 117.2 |
| 42.5° | 984.5 | 819.0 | 335.2 | 109.5 | 98.5 | 96.3 | 95.0 | 95.9 | 102.3 | 108.2 | 108.7 |
| 45° | 1048.1 | 847.1 | 275.0 | 106.5 | 95.9 | 95.0 | 92.4 | 92.1 | 94.5 | 97.3 | 97.3 |
| 47.5° | 1152.7 | 902.5 | 234.2 | 104.5 | 93.6 | 93.3 | 90.1 | 86.8 | 86.6 | 87.6 | 87.6 |
| 50° | 1322.6 | 998.1 | 206.8 | 102.3 | 92.1 | 90.1 | 86.3 | 81.3 | 79.6 | 80.4 | 80.4 |
| 52.5° | 1577.4 | 1168.6 | 196.3 | 99.3 | 88.8 | 85.6 | 81.3 | 76.4 | 74.9 | 75.2 | 75.2 |
| 55° | 1911.7 | 1430.4 | 194.9 | 95.9 | 85.3 | 80.1 | 76.6 | 72.9 | 71.2 | 71.7 | 71.7 |
| 57.5° | 2320.0 | 1792.4 | 221.5 | 90.3 | 80.6 | 74.7 | 72.6 | 70.2 | 68.9 | 69.7 | 69.5 |
| 60° | 2816.5 | 2266.2 | 328.5 | 84.6 | 75.9 | 69.7 | 69.7 | 67.7 | 66.7 | 67.4 | 67.2 |
| 62.5° | 3388.3 | 2810.5 | 461.9 | 80.4 | 70.9 | 65.7 | 66.7 | 65.7 | 64.7 | 65.2 | 65.0 |
| 65° | 3895.5 | 3165.1 | 432.5 | 77.1 | 66.0 | 62.0 | 63.7 | 63.2 | 62.5 | 62.9 | 62.7 |
| 67.5° | 3910.1 | 3033.7 | 242.8 | 73.7 | 61.2 | 58.2 | 60.8 | 60.5 | 59.9 | 60.5 | 60.3 |
| 70° | 3489.6 | 2561.7 | 136.9 | 67.2 | 56.3 | 53.7 | 57.3 | 57.0 | 56.5 | 57.5 | 57.3 |
| 72.5° | 2795.8 | 1858.9 | 100.0 | 59.2 | 51.2 | 49.0 | 53.0 | 52.8 | 52.8 | 54.2 | 53.5 |
| 75° | 1608.8 | 956.6 | 79.9 | 50.7 | 46.0 | 44.3 | 47.8 | 48.0 | 48.5 | 50.5 | 49.0 |
| 77.5° | 458.6 | 298.1 | 65.2 | 43.1 | 39.6 | 38.8 | 42.4 | 42.8 | 43.1 | 45.3 | 43.3 |
| 80° | 170.4 | 137.4 | 53.7 | 36.1 | 32.3 | 32.6 | 35.8 | 36.6 | 36.8 | 39.1 | 36.6 |
| 82.5° | 108.7 | 90.5 | 43.6 | 27.8 | 25.4 | 25.2 | 29.2 | 30.1 | 30.1 | 30.4 | 28.8 |
| 85° | 63.4 | 54.2 | 32.8 | 20.2 | 17.9 | 17.2 | 21.7 | 23.4 | 22.6 | 22.2 | 21.2 |
| 87.5° | 42.6 | 37.3 | 20.2 | 11.2 | 9.7 | 9.2 | 12.7 | 13.9 | 13.4 | 12.7 | 12.0 |
| 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)