

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: P191446

Luminaire Tested: **GAN-AF-08-LED-U-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191446
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-08-LED-U-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39435.8 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

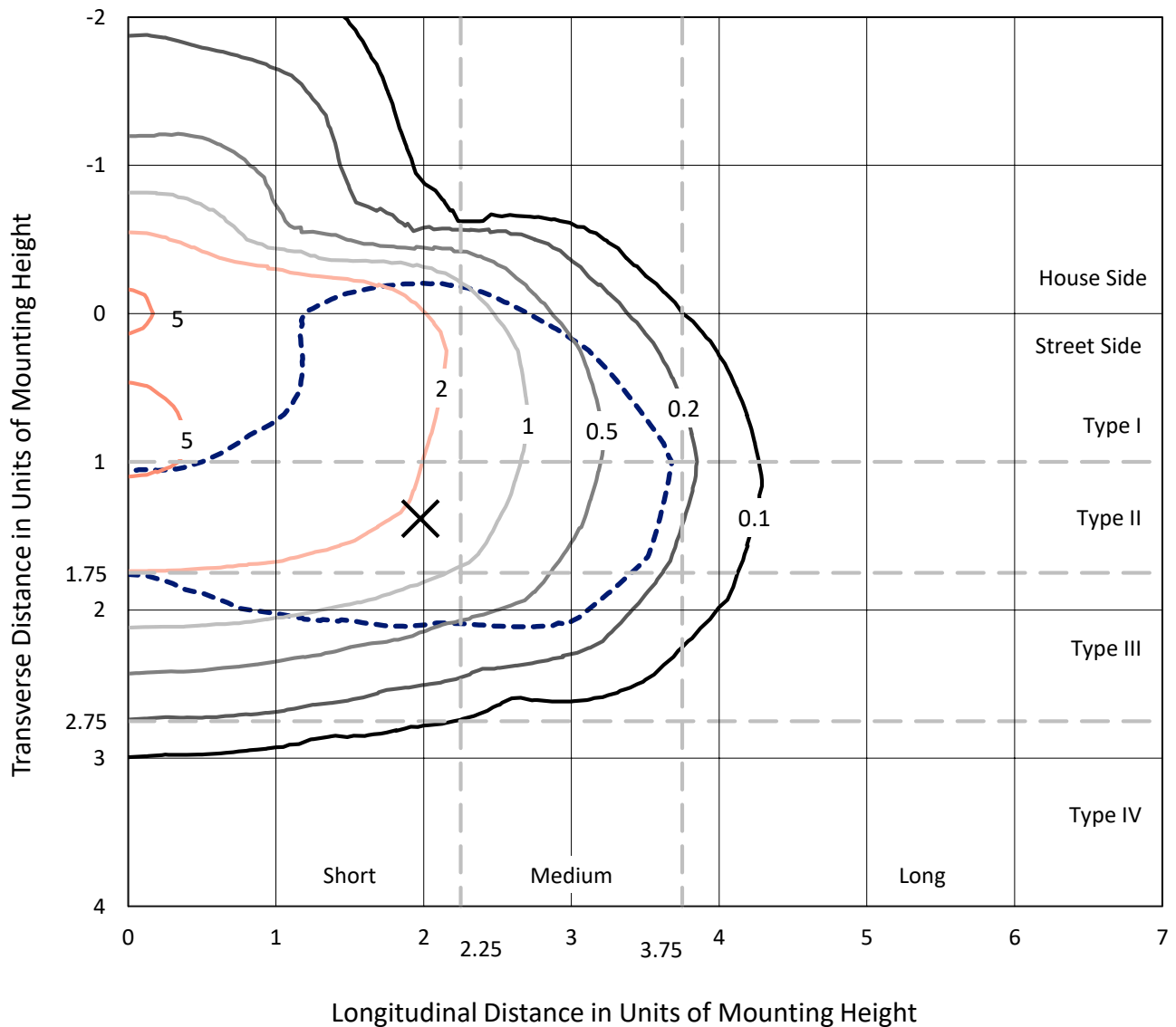
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191446
 CATALOG NUMBER: GAN-AF-08-LED-U-T3-800

Iso-Footcandle Lines of Horizontal Illumination

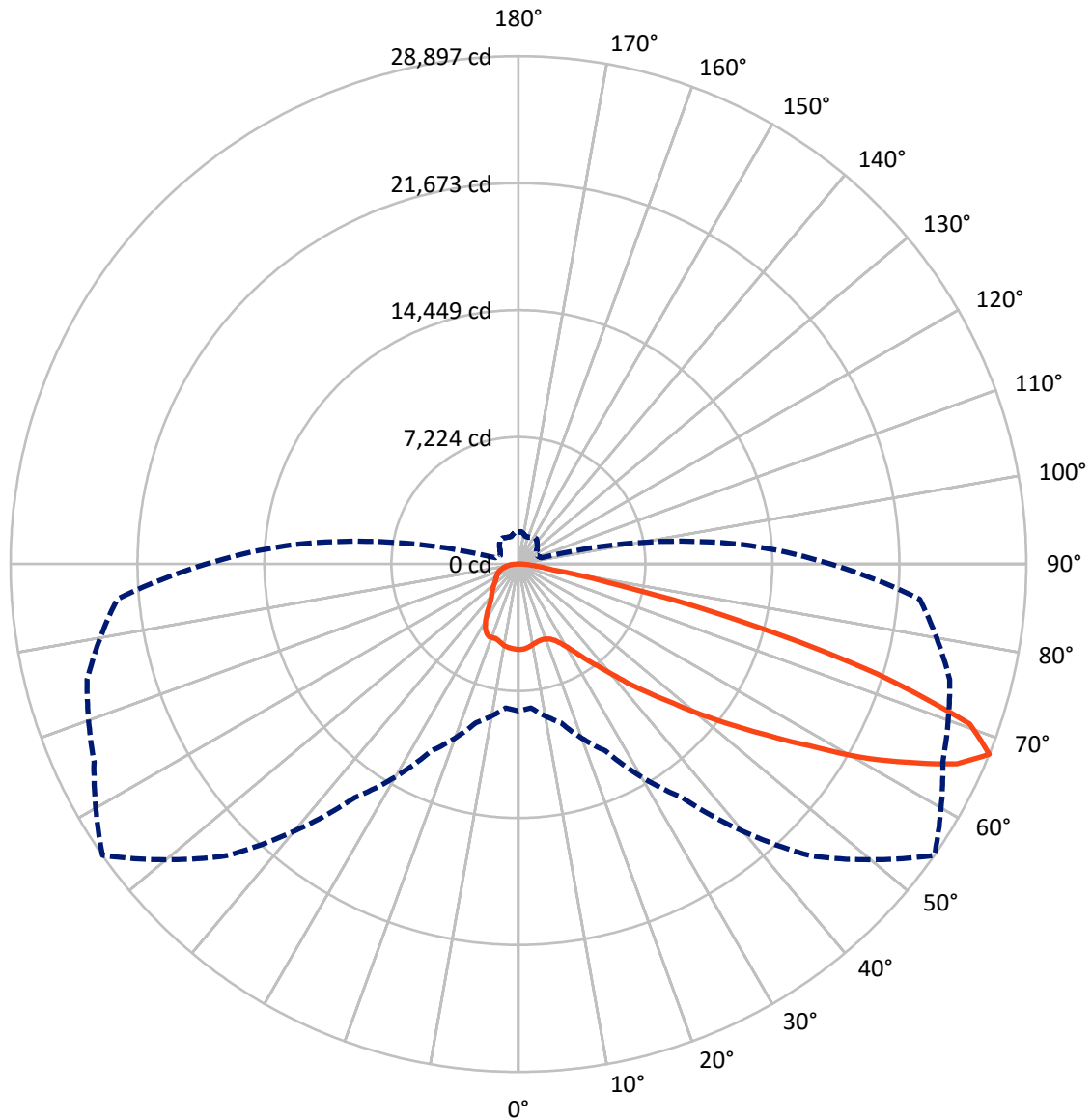
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191446
CATALOG NUMBER: GAN-AF-08-LED-U-T3-800

Luminous Intensity Polar Plot



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



REPORT NUMBER: P191446

CATALOG NUMBER: GAN-AF-08-LED-U-T3-800

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8519.0 | 0.0 | 8519.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 30916.8 | 0.0 | 30916.8 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 39435.8 | 0.0 | 39435.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 453.9 | 1.2 |
| 10°-20° | 1285.5 | 3.3 |
| 20°-30° | 2153.4 | 5.5 |
| 30°-40° | 3541.1 | 9.0 |
| 40°-50° | 5960.7 | 15.1 |
| 50°-60° | 9381.7 | 23.8 |
| 60°-70° | 11196.1 | 28.4 |
| 70°-80° | 4807.8 | 12.2 |
| 80°-90° | 655.5 | 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° | 39435.8 | 100.0 |
| 0°-180° | 39435.8 | 100.0 |



REPORT NUMBER: P191446

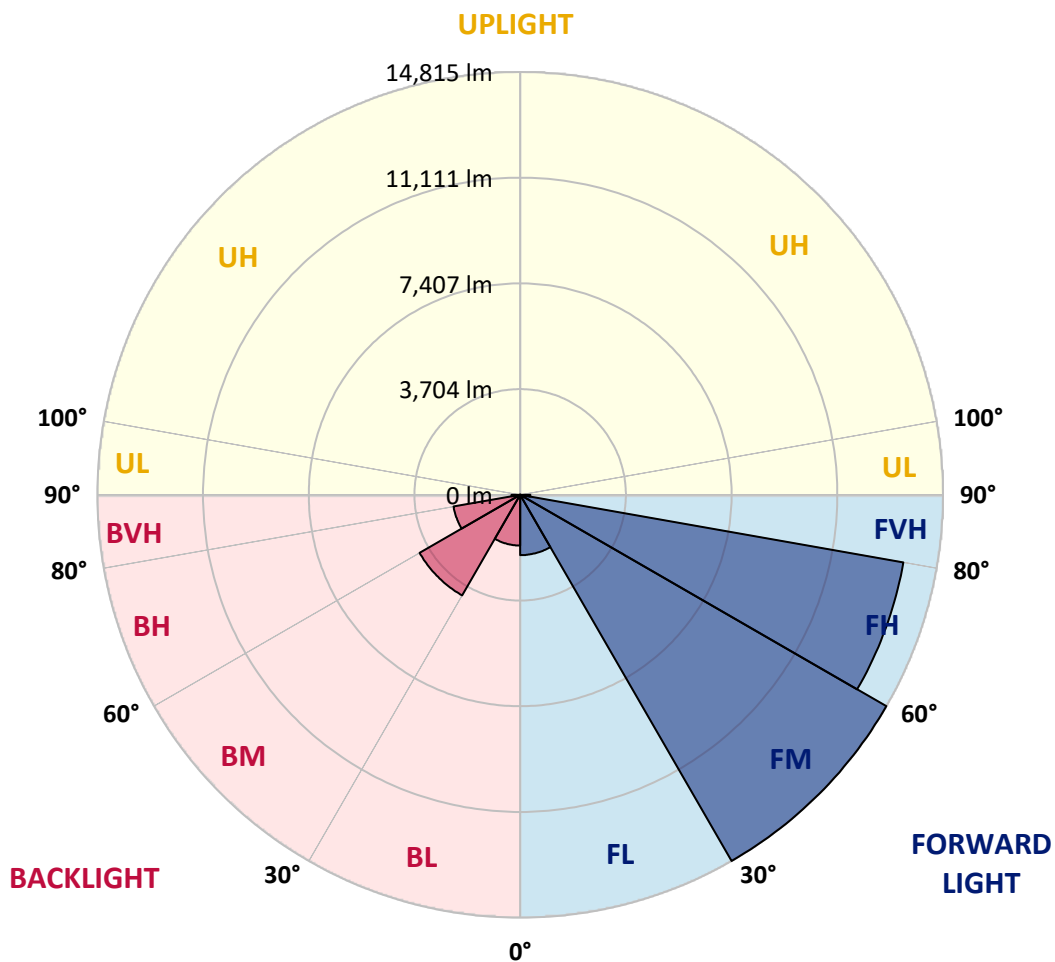
CATALOG NUMBER: GAN-AF-08-LED-U-T3-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2113.9 | 5.4 | | | |
| FM (30°-60°) | 14815.0 | 37.6 | | | |
| FH (60°-80°) | 13633.1 | 34.6 | | | G5 |
| FVH (80°-90°) | 354.8 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1778.9 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 4068.6 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 2370.8 | 6.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 300.7 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P191446

CATALOG NUMBER: GAN-AF-08-LED-U-T3-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 |
| 2.5° | 4821.0 | 4822.9 | 4826.7 | 4841.9 | 4855.2 | 4851.4 | 4853.3 | 4845.7 | 4843.8 | 4832.4 | 4843.8 |
| 5° | 4760.0 | 4765.7 | 4767.7 | 4792.4 | 4807.7 | 4811.4 | 4805.7 | 4796.2 | 4784.8 | 4773.3 | 4779.0 |
| 7.5° | 4621.0 | 4636.2 | 4638.1 | 4672.4 | 4697.2 | 4729.5 | 4731.5 | 4733.3 | 4727.7 | 4720.0 | 4731.5 |
| 10° | 4533.3 | 4537.2 | 4535.3 | 4560.0 | 4579.0 | 4615.2 | 4636.2 | 4672.4 | 4687.7 | 4691.5 | 4699.0 |
| 12.5° | 4527.6 | 4523.8 | 4518.1 | 4518.1 | 4512.3 | 4527.6 | 4565.7 | 4617.2 | 4653.3 | 4664.8 | 4674.3 |
| 15° | 4588.5 | 4586.7 | 4567.6 | 4539.0 | 4502.8 | 4491.5 | 4523.8 | 4581.0 | 4628.5 | 4653.3 | 4662.8 |
| 17.5° | 4725.7 | 4714.3 | 4683.8 | 4619.0 | 4541.0 | 4510.5 | 4514.3 | 4562.0 | 4617.2 | 4649.5 | 4659.0 |
| 20° | 4977.2 | 4977.2 | 4912.4 | 4790.5 | 4651.5 | 4579.0 | 4544.8 | 4573.3 | 4626.7 | 4670.5 | 4683.8 |
| 22.5° | 5411.4 | 5415.2 | 5306.7 | 5106.7 | 4872.4 | 4718.1 | 4632.4 | 4626.7 | 4689.5 | 4739.0 | 4754.3 |
| 25° | 6026.7 | 6011.5 | 5859.1 | 5573.3 | 5217.2 | 4961.9 | 4813.3 | 4779.0 | 4832.4 | 4887.7 | 4906.7 |
| 27.5° | 6742.9 | 6687.6 | 6506.7 | 6161.9 | 5701.0 | 5327.6 | 5099.1 | 5043.9 | 5095.2 | 5158.1 | 5177.2 |
| 30° | 7451.5 | 7394.3 | 7179.1 | 6801.9 | 6289.5 | 5817.1 | 5489.6 | 5400.1 | 5472.4 | 5561.9 | 5573.3 |
| 32.5° | 8160.0 | 8160.0 | 7920.0 | 7480.0 | 6921.9 | 6401.9 | 6009.5 | 5902.8 | 6022.8 | 6131.5 | 6156.2 |
| 35° | 9007.6 | 9011.5 | 8779.1 | 8249.5 | 7649.5 | 7099.1 | 6666.7 | 6588.6 | 6769.6 | 6845.7 | 6904.8 |
| 37.5° | 10049.6 | 10070.4 | 9771.4 | 9131.5 | 8474.3 | 7895.2 | 7381.0 | 7274.3 | 7455.3 | 7662.8 | 7853.3 |
| 40° | 11175.2 | 11201.9 | 10872.4 | 10083.8 | 9426.7 | 8821.0 | 8264.7 | 8072.4 | 8373.4 | 8769.6 | 9015.3 |
| 42.5° | 12249.5 | 12386.7 | 12068.6 | 11257.2 | 10550.5 | 9923.9 | 9360.0 | 9080.0 | 9457.2 | 10055.2 | 10268.6 |
| 45° | 13802.0 | 13901.0 | 13346.6 | 12611.4 | 11946.6 | 11245.7 | 10499.1 | 10203.8 | 10731.5 | 11485.7 | 11529.6 |
| 47.5° | 14836.2 | 14761.9 | 14480.0 | 14022.9 | 13601.9 | 12946.7 | 11822.9 | 11499.1 | 12200.0 | 13087.6 | 12841.9 |
| 50° | 15386.7 | 15409.5 | 15371.5 | 15398.1 | 15413.3 | 15001.9 | 13445.8 | 13001.9 | 13838.1 | 14910.5 | 14344.7 |
| 52.5° | 15901.0 | 15748.6 | 15874.3 | 16499.1 | 17253.4 | 17101.0 | 15211.5 | 14748.6 | 15594.3 | 16933.3 | 15933.4 |
| 55° | 15889.5 | 15657.2 | 16066.7 | 17169.5 | 18805.7 | 18981.0 | 17194.3 | 16661.0 | 17451.4 | 19102.9 | 17617.2 |
| 57.5° | 15327.6 | 15339.0 | 15969.5 | 17413.4 | 19887.6 | 20748.6 | 19495.3 | 18695.2 | 19420.9 | 21301.0 | 19154.3 |
| 60° | 14554.3 | 14659.1 | 15567.7 | 17373.4 | 20754.3 | 22198.1 | 22318.1 | 20887.6 | 21350.5 | 23299.0 | 20426.7 |
| 62.5° | 13306.6 | 13417.1 | 14670.4 | 16958.1 | 20622.9 | 23594.4 | 24870.5 | 23375.2 | 23367.7 | 24510.5 | 20800.1 |
| 65° | 11339.1 | 11306.7 | 12622.9 | 15405.7 | 19520.0 | 24626.7 | 27405.8 | 25525.7 | 24887.7 | 24529.5 | 20049.5 |
| 67.5° | 8361.9 | 8217.2 | 9346.7 | 11733.3 | 16224.8 | 23470.5 | 28897.1 | 26645.7 | 25405.7 | 22916.2 | 17756.2 |
| 70° | 4339.1 | 4194.3 | 5108.6 | 6851.4 | 10670.5 | 18318.1 | 27245.8 | 26066.7 | 24261.0 | 19209.6 | 13910.5 |
| 72.5° | 1855.2 | 1830.5 | 2201.9 | 3005.7 | 5161.9 | 10565.8 | 21363.8 | 22561.9 | 20817.2 | 14312.4 | 9563.8 |
| 75° | 1247.6 | 1240.0 | 1379.0 | 1638.1 | 2321.9 | 4287.6 | 13369.6 | 16015.2 | 15230.5 | 8874.3 | 5379.1 |
| 77.5° | 979.1 | 969.6 | 1051.4 | 1177.1 | 1504.8 | 1691.4 | 5933.3 | 8598.1 | 7958.1 | 3862.9 | 2354.3 |
| 80° | 765.7 | 758.1 | 809.6 | 878.1 | 1081.9 | 1066.6 | 1952.4 | 3421.0 | 2647.6 | 1480.0 | 1144.8 |
| 82.5° | 603.8 | 603.8 | 645.7 | 647.6 | 767.6 | 727.6 | 1019.1 | 1506.7 | 1321.9 | 862.9 | 700.9 |
| 85° | 552.4 | 552.4 | 596.2 | 483.9 | 500.9 | 459.0 | 632.4 | 893.3 | 838.1 | 354.2 | 304.7 |
| 87.5° | 278.1 | 270.5 | 500.9 | 428.6 | 272.4 | 243.8 | 308.5 | 432.4 | 464.7 | 196.2 | 152.4 |
| 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: P191446

CATALOG NUMBER: GAN-AF-08-LED-U-T3-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 | 4862.9 |
| 2.5° | 4840.0 | 4838.1 | 4841.9 | 4843.8 | 4859.0 | 4880.0 | 4889.5 | 4902.9 | 4910.5 | 4906.7 |
| 5° | 4782.9 | 4786.7 | 4801.9 | 4813.3 | 4840.0 | 4874.3 | 4893.4 | 4908.5 | 4921.9 | 4916.2 |
| 7.5° | 4735.2 | 4744.8 | 4767.7 | 4777.2 | 4792.4 | 4801.9 | 4800.0 | 4805.7 | 4817.2 | 4803.8 |
| 10° | 4708.5 | 4720.0 | 4737.2 | 4723.8 | 4687.7 | 4636.2 | 4588.5 | 4563.8 | 4571.5 | 4562.0 |
| 12.5° | 4681.9 | 4697.2 | 4683.8 | 4621.0 | 4520.0 | 4453.3 | 4417.1 | 4421.0 | 4438.1 | 4442.0 |
| 15° | 4666.7 | 4672.4 | 4615.2 | 4497.1 | 4394.3 | 4384.8 | 4403.8 | 4400.0 | 4401.9 | 4401.9 |
| 17.5° | 4666.7 | 4651.5 | 4544.8 | 4426.7 | 4382.8 | 4365.7 | 4306.6 | 4232.4 | 4200.0 | 4188.6 |
| 20° | 4691.5 | 4651.5 | 4522.0 | 4443.8 | 4348.6 | 4201.9 | 4045.7 | 3908.6 | 3847.6 | 3830.4 |
| 22.5° | 4765.7 | 4697.2 | 4586.7 | 4451.5 | 4181.0 | 3935.3 | 3687.6 | 3523.9 | 3413.4 | 3394.3 |
| 25° | 4916.2 | 4840.0 | 4714.3 | 4350.5 | 3914.3 | 3563.9 | 3281.9 | 3099.0 | 2988.6 | 2973.3 |
| 27.5° | 5179.1 | 5129.5 | 4782.9 | 4127.6 | 3560.0 | 3184.8 | 2923.8 | 2782.8 | 2701.0 | 2695.3 |
| 30° | 5575.3 | 5550.5 | 4748.5 | 3798.1 | 3123.8 | 2817.1 | 2691.4 | 2609.5 | 2548.6 | 2546.6 |
| 32.5° | 6207.7 | 6007.6 | 4636.2 | 3396.2 | 2725.8 | 2556.1 | 2504.8 | 2455.3 | 2407.6 | 2407.6 |
| 35° | 7020.9 | 6377.2 | 4422.8 | 2965.7 | 2483.8 | 2411.4 | 2346.6 | 2268.6 | 2205.7 | 2201.9 |
| 37.5° | 7977.2 | 6605.7 | 4040.0 | 2619.1 | 2369.6 | 2314.3 | 2219.1 | 2102.9 | 1992.4 | 1973.4 |
| 40° | 8942.8 | 6674.2 | 3500.9 | 2405.7 | 2297.1 | 2217.1 | 2100.9 | 1963.9 | 1857.2 | 1851.4 |
| 42.5° | 9828.6 | 6542.9 | 2929.5 | 2259.1 | 2224.7 | 2118.1 | 1996.2 | 1874.3 | 1790.5 | 1788.5 |
| 45° | 10571.5 | 6201.9 | 2449.6 | 2120.0 | 2148.6 | 2028.6 | 1920.0 | 1821.0 | 1756.2 | 1742.9 |
| 47.5° | 11270.5 | 5720.0 | 2112.4 | 1973.4 | 2072.4 | 1979.0 | 1887.7 | 1794.3 | 1731.4 | 1721.9 |
| 50° | 12081.9 | 5200.0 | 1876.2 | 1830.5 | 2005.7 | 1961.9 | 1914.2 | 1817.2 | 1712.4 | 1701.0 |
| 52.5° | 13064.8 | 4750.5 | 1691.4 | 1704.7 | 1954.2 | 1984.7 | 1982.9 | 1881.9 | 1699.0 | 1683.8 |
| 55° | 14161.9 | 4251.4 | 1552.4 | 1601.9 | 1933.4 | 2026.7 | 2000.0 | 1942.9 | 1710.5 | 1687.7 |
| 57.5° | 15242.0 | 3668.6 | 1455.2 | 1523.8 | 1902.9 | 2022.9 | 1918.1 | 1836.2 | 1737.2 | 1704.7 |
| 60° | 16051.4 | 2885.7 | 1381.0 | 1455.2 | 1836.2 | 1960.0 | 1828.5 | 1720.0 | 1731.4 | 1706.7 |
| 62.5° | 16104.8 | 2230.4 | 1291.5 | 1396.2 | 1735.2 | 1897.2 | 1769.5 | 1668.5 | 1756.2 | 1733.3 |
| 65° | 15158.1 | 1685.7 | 1205.8 | 1325.7 | 1626.7 | 1857.2 | 1712.4 | 1640.0 | 1807.7 | 1782.9 |
| 67.5° | 12761.9 | 1356.2 | 1133.3 | 1253.3 | 1518.1 | 1773.3 | 1661.0 | 1613.3 | 1853.4 | 1809.5 |
| 70° | 9213.3 | 1156.2 | 1062.8 | 1165.8 | 1421.0 | 1678.0 | 1615.2 | 1565.7 | 1729.5 | 1661.0 |
| 72.5° | 5672.4 | 1001.9 | 982.9 | 1049.5 | 1346.7 | 1579.0 | 1546.7 | 1476.2 | 1558.1 | 1502.8 |
| 75° | 2832.3 | 868.6 | 893.3 | 935.3 | 1241.9 | 1466.7 | 1432.3 | 1362.0 | 1373.3 | 1362.0 |
| 77.5° | 1356.2 | 742.9 | 788.6 | 820.9 | 1106.6 | 1339.0 | 1302.8 | 1230.5 | 1217.1 | 1219.1 |
| 80° | 859.1 | 620.9 | 664.7 | 687.6 | 988.6 | 1190.5 | 1154.3 | 1081.9 | 1234.3 | 1144.8 |
| 82.5° | 537.2 | 504.7 | 516.2 | 558.1 | 860.9 | 1036.1 | 988.6 | 923.8 | 1112.4 | 880.0 |
| 85° | 297.2 | 352.4 | 367.6 | 403.9 | 662.9 | 866.6 | 819.1 | 737.1 | 660.9 | 649.6 |
| 87.5° | 177.2 | 209.5 | 215.2 | 241.9 | 445.7 | 626.7 | 554.3 | 525.7 | 436.2 | 434.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)