

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: P191366

Luminaire Tested: **GAN-AF-08-LED-U-T2-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191366
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-08-LED-U-T2-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38691.1 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G5

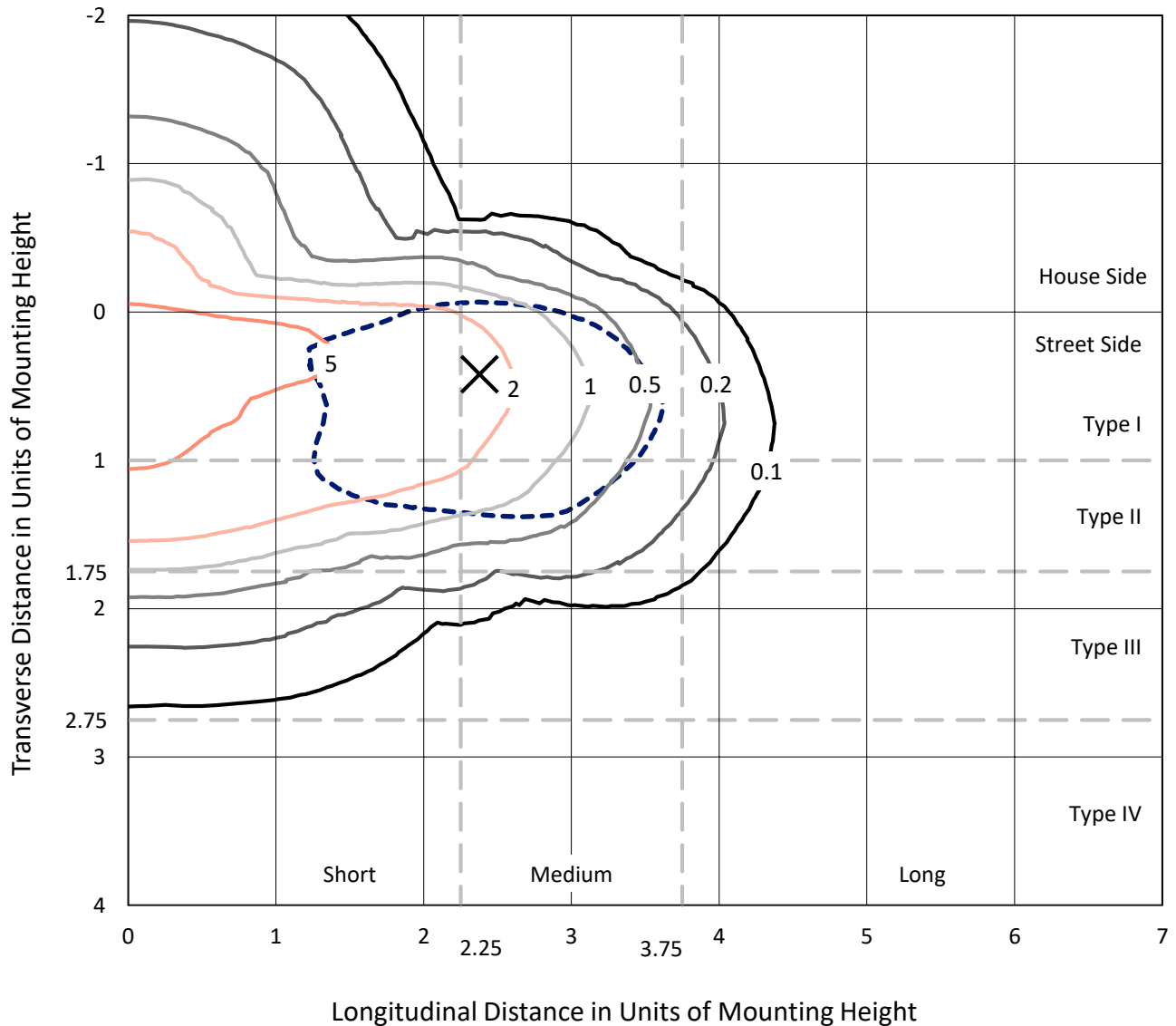
Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191366
 CATALOG NUMBER: GAN-AF-08-LED-U-T2-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

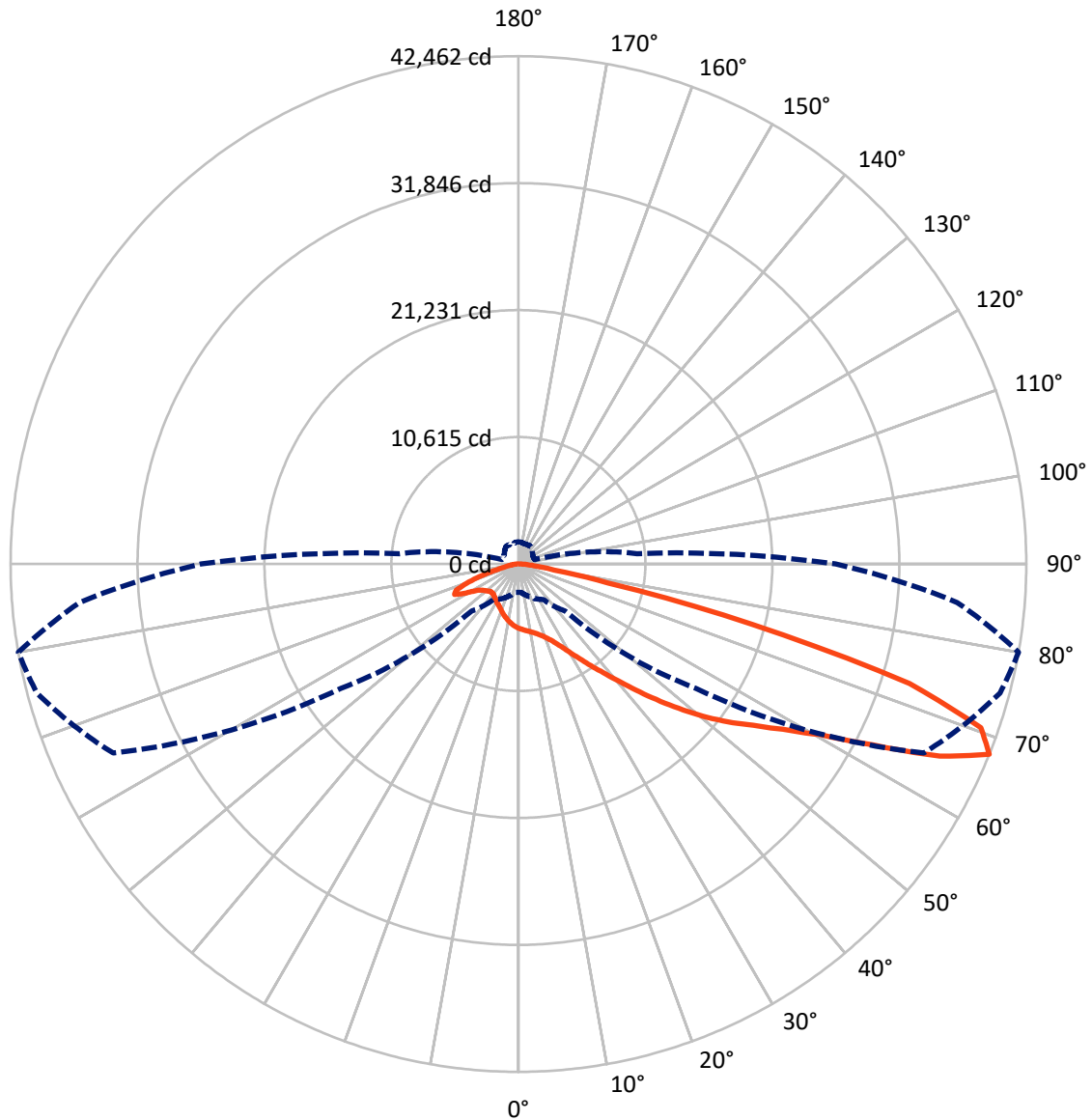


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191366

CATALOG NUMBER: GAN-AF-08-LED-U-T2-800-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191366

CATALOG NUMBER: GAN-AF-08-LED-U-T2-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7125.4 | 0.0 | 7125.4 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 31565.6 | 0.0 | 31565.6 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 38691.1 | 0.0 | 38691.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 495.9 | 1.3 |
| 10°-20° | 1428.4 | 3.7 |
| 20°-30° | 2364.3 | 6.1 |
| 30°-40° | 3867.4 | 10.0 |
| 40°-50° | 6244.3 | 16.1 |
| 50°-60° | 9014.9 | 23.3 |
| 60°-70° | 9948.5 | 25.7 |
| 70°-80° | 4585.6 | 11.9 |
| 80°-90° | 741.7 | 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° | 38691.1 | 100.0 |
| 0°-180° | 38691.1 | 100.0 |



REPORT NUMBER: P191366

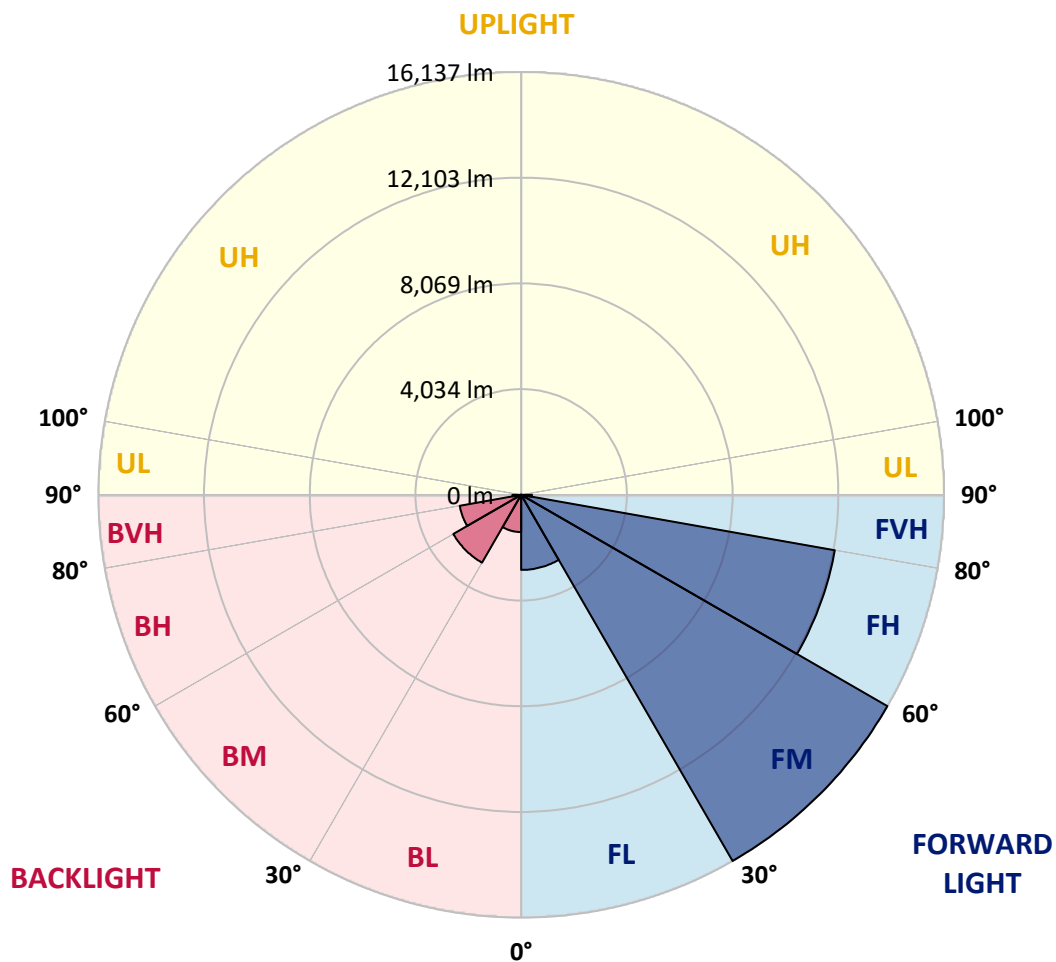
CATALOG NUMBER: GAN-AF-08-LED-U-T2-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2866.9 | 7.4 | | | |
| FM (30°-60°) | 16137.1 | 41.7 | | | |
| FH (60°-80°) | 12153.9 | 31.4 | | | G5 |
| FVH (80°-90°) | 407.8 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1421.6 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 2989.6 | 7.7 | B3/5000 | | |
| BH (60°-80°) | 2380.3 | 6.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 333.9 | 0.9 | | | 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 II Medium





REPORT NUMBER: P191366

CATALOG NUMBER: GAN-AF-08-LED-U-T2-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 |
| 2.5° | 5880.1 | 5845.8 | 5851.5 | 5842.0 | 5813.4 | 5763.9 | 5710.5 | 5613.4 | 5512.5 | 5459.1 | 5417.2 |
| 5° | 6371.6 | 6362.0 | 6348.6 | 6318.2 | 6245.8 | 6142.9 | 6015.4 | 5843.9 | 5659.2 | 5562.0 | 5468.7 |
| 7.5° | 6739.1 | 6733.5 | 6716.3 | 6697.3 | 6626.8 | 6503.0 | 6310.6 | 6066.7 | 5798.2 | 5664.8 | 5520.0 |
| 10° | 6769.6 | 6779.1 | 6792.5 | 6844.0 | 6853.5 | 6786.8 | 6590.6 | 6295.3 | 5942.9 | 5771.5 | 5586.7 |
| 12.5° | 6510.6 | 6531.5 | 6583.0 | 6714.3 | 6853.5 | 6935.3 | 6834.3 | 6535.3 | 6112.4 | 5904.9 | 5670.5 |
| 15° | 6167.7 | 6179.1 | 6241.9 | 6422.9 | 6672.5 | 6925.8 | 7021.0 | 6800.1 | 6331.6 | 6076.3 | 5796.2 |
| 17.5° | 6021.1 | 6026.7 | 6070.6 | 6190.6 | 6422.9 | 6784.8 | 7125.8 | 7087.7 | 6600.1 | 6289.6 | 5950.6 |
| 20° | 5946.7 | 5960.1 | 6022.9 | 6141.1 | 6287.7 | 6603.9 | 7141.0 | 7398.2 | 6920.1 | 6556.3 | 6144.9 |
| 22.5° | 6158.2 | 6152.4 | 6175.3 | 6234.4 | 6358.2 | 6548.6 | 7129.7 | 7718.2 | 7327.7 | 6899.2 | 6398.1 |
| 25° | 6651.5 | 6672.5 | 6632.5 | 6565.8 | 6605.8 | 6739.1 | 7190.6 | 8064.8 | 7838.2 | 7339.2 | 6729.6 |
| 27.5° | 7354.4 | 7333.4 | 7274.4 | 7118.2 | 7036.3 | 7093.4 | 7392.5 | 8438.2 | 8472.5 | 7918.3 | 7167.7 |
| 30° | 8055.3 | 8038.2 | 7981.1 | 7790.6 | 7622.9 | 7575.4 | 7784.9 | 8866.8 | 9228.7 | 8613.5 | 7704.9 |
| 32.5° | 8783.0 | 8763.9 | 8710.6 | 8520.2 | 8318.2 | 8207.7 | 8343.0 | 9362.0 | 10120.2 | 9444.0 | 8337.3 |
| 35° | 9680.2 | 9644.0 | 9531.5 | 9266.8 | 9068.7 | 8982.9 | 9045.9 | 9984.9 | 11148.7 | 10426.8 | 9104.9 |
| 37.5° | 10523.9 | 10579.2 | 10464.9 | 10099.2 | 9842.0 | 9811.5 | 9882.0 | 10744.9 | 12257.3 | 11525.9 | 9986.8 |
| 40° | 11371.6 | 11381.1 | 11278.2 | 10979.2 | 10714.5 | 10664.9 | 10842.1 | 11666.9 | 13565.9 | 12840.2 | 11059.2 |
| 42.5° | 12247.8 | 12266.8 | 12093.5 | 11817.3 | 11623.1 | 11632.6 | 11834.4 | 12746.9 | 15066.8 | 14388.8 | 12293.5 |
| 45° | 13285.9 | 13314.5 | 13123.9 | 12762.1 | 12585.0 | 12941.1 | 12857.4 | 13958.3 | 16712.7 | 16148.8 | 13710.7 |
| 47.5° | 14371.6 | 14415.4 | 14270.7 | 13931.7 | 13710.7 | 14200.2 | 13880.2 | 15301.2 | 18484.1 | 18036.5 | 15266.9 |
| 50° | 14964.0 | 15026.8 | 15167.8 | 15143.0 | 15095.5 | 15013.5 | 15021.2 | 16741.2 | 20310.8 | 20002.2 | 16866.9 |
| 52.5° | 14645.9 | 14644.1 | 15158.3 | 15783.1 | 16449.8 | 16499.3 | 16411.7 | 18259.3 | 22017.5 | 21924.1 | 18373.6 |
| 55° | 13190.6 | 13289.7 | 14068.7 | 15278.3 | 17099.3 | 18236.5 | 18495.5 | 19998.4 | 23693.7 | 23802.2 | 19903.1 |
| 57.5° | 10767.8 | 10849.7 | 11901.1 | 13586.8 | 16223.1 | 19268.8 | 21459.4 | 22526.0 | 25567.9 | 26074.6 | 21939.3 |
| 60° | 7302.9 | 7402.0 | 8516.3 | 10541.1 | 13865.0 | 18693.6 | 24280.4 | 27036.6 | 27811.8 | 28964.2 | 24796.5 |
| 62.5° | 4291.5 | 4381.0 | 5289.6 | 6649.6 | 9762.0 | 16021.1 | 25518.4 | 33453.8 | 31375.6 | 33324.3 | 29154.7 |
| 65° | 2954.3 | 3015.2 | 3457.2 | 4139.1 | 5609.6 | 10790.6 | 23983.2 | 37884.4 | 36859.6 | 38726.3 | 34208.1 |
| 67.5° | 2377.1 | 2369.6 | 2720.0 | 3184.9 | 3611.5 | 5563.9 | 18135.5 | 37383.4 | 41682.5 | 42461.6 | 36831.0 |
| 70° | 1958.1 | 1950.5 | 2188.6 | 2573.3 | 2885.7 | 3133.4 | 9878.2 | 31547.1 | 40699.6 | 41015.8 | 34415.7 |
| 72.5° | 1638.2 | 1645.7 | 1798.1 | 2083.9 | 2367.6 | 2360.0 | 4341.0 | 22192.7 | 32017.6 | 34204.3 | 27434.7 |
| 75° | 1382.9 | 1386.7 | 1487.7 | 1689.5 | 1921.9 | 1900.9 | 2354.3 | 12023.0 | 18611.7 | 20133.6 | 15207.8 |
| 77.5° | 1177.1 | 1181.0 | 1245.7 | 1358.1 | 1523.8 | 1516.2 | 1718.1 | 5194.3 | 7763.9 | 7668.7 | 5202.0 |
| 80° | 1049.5 | 1049.5 | 1080.0 | 1101.0 | 1192.4 | 1158.1 | 1274.3 | 2495.3 | 3281.9 | 3030.5 | 2076.2 |
| 82.5° | 822.9 | 826.6 | 1013.3 | 1005.8 | 939.1 | 895.3 | 895.3 | 1470.5 | 1739.1 | 1607.7 | 1215.3 |
| 85° | 462.9 | 460.9 | 653.4 | 788.6 | 826.6 | 630.4 | 624.8 | 822.9 | 946.6 | 834.3 | 588.6 |
| 87.5° | 198.1 | 201.9 | 302.9 | 350.5 | 468.6 | 392.4 | 386.7 | 424.7 | 481.9 | 417.2 | 272.4 |
| 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: P191366

CATALOG NUMBER: GAN-AF-08-LED-U-T2-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 | 5375.3 |
| 2.5° | 5377.2 | 5327.7 | 5219.1 | 5083.9 | 4961.9 | 4881.9 | 4809.6 | 4704.9 | 4710.6 | 4638.2 | 4584.9 |
| 5° | 5373.5 | 5270.5 | 5019.1 | 4720.1 | 4432.4 | 4224.8 | 4068.6 | 3927.7 | 3893.4 | 3826.8 | 3786.8 |
| 7.5° | 5377.2 | 5209.6 | 4786.7 | 4308.7 | 3952.5 | 3689.6 | 3556.3 | 3481.9 | 3464.8 | 3441.9 | 3443.9 |
| 10° | 5390.5 | 5154.3 | 4531.5 | 3923.8 | 3550.6 | 3377.2 | 3344.8 | 3367.7 | 3394.4 | 3401.9 | 3403.9 |
| 12.5° | 5421.0 | 5104.8 | 4251.5 | 3581.0 | 3299.1 | 3245.7 | 3301.0 | 3379.1 | 3430.6 | 3455.3 | 3453.4 |
| 15° | 5489.6 | 5066.8 | 3983.0 | 3312.4 | 3160.0 | 3188.6 | 3291.4 | 3401.9 | 3476.2 | 3510.6 | 3512.4 |
| 17.5° | 5563.9 | 5011.5 | 3706.8 | 3106.7 | 3057.2 | 3129.6 | 3257.2 | 3386.7 | 3478.1 | 3516.3 | 3523.9 |
| 20° | 5661.0 | 4942.9 | 3417.2 | 2952.4 | 2960.0 | 3041.9 | 3161.9 | 3291.4 | 3392.4 | 3424.8 | 3440.1 |
| 22.5° | 5788.7 | 4868.6 | 3163.9 | 2826.7 | 2849.5 | 2912.4 | 3005.7 | 3118.2 | 3205.7 | 3221.0 | 3234.4 |
| 25° | 5960.1 | 4788.6 | 2962.0 | 2712.5 | 2722.0 | 2758.2 | 2821.0 | 2887.7 | 2948.7 | 2931.5 | 2944.8 |
| 27.5° | 6190.6 | 4720.1 | 2811.5 | 2607.7 | 2590.5 | 2598.1 | 2630.5 | 2651.5 | 2683.8 | 2636.2 | 2642.0 |
| 30° | 6461.1 | 4645.7 | 2695.3 | 2516.3 | 2468.6 | 2455.3 | 2462.9 | 2474.3 | 2499.1 | 2434.3 | 2424.8 |
| 32.5° | 6775.3 | 4556.2 | 2586.7 | 2436.3 | 2369.6 | 2342.9 | 2346.6 | 2377.1 | 2472.4 | 2432.4 | 2411.5 |
| 35° | 7141.0 | 4455.3 | 2472.4 | 2348.6 | 2302.9 | 2264.8 | 2261.0 | 2356.3 | 2640.0 | 2615.3 | 2596.2 |
| 37.5° | 7569.6 | 4354.4 | 2358.1 | 2249.6 | 2253.4 | 2211.4 | 2198.1 | 2306.7 | 2672.5 | 2575.3 | 2562.0 |
| 40° | 8114.4 | 4301.0 | 2261.0 | 2144.8 | 2192.4 | 2186.7 | 2160.1 | 2215.3 | 2459.1 | 2281.9 | 2259.1 |
| 42.5° | 8788.7 | 4308.7 | 2188.6 | 2032.4 | 2120.1 | 2181.0 | 2139.1 | 2140.9 | 2228.6 | 2095.3 | 2074.3 |
| 45° | 9621.1 | 4398.2 | 2137.1 | 1942.9 | 2038.1 | 2175.3 | 2131.4 | 2100.9 | 2108.6 | 2038.1 | 2026.7 |
| 47.5° | 10592.6 | 4582.9 | 2100.9 | 1868.6 | 1960.1 | 2154.3 | 2129.6 | 2089.6 | 2072.4 | 2034.3 | 2024.8 |
| 50° | 11672.6 | 4851.5 | 2074.3 | 1798.1 | 1889.6 | 2120.1 | 2131.4 | 2078.1 | 2059.1 | 2043.9 | 2038.1 |
| 52.5° | 12733.5 | 5158.1 | 2034.3 | 1737.2 | 1834.4 | 2078.1 | 2137.1 | 2066.7 | 2045.7 | 2034.3 | 2028.6 |
| 55° | 13916.4 | 5541.0 | 1973.4 | 1685.7 | 1788.6 | 2024.8 | 2137.1 | 2049.6 | 2026.7 | 2028.6 | 2026.7 |
| 57.5° | 15514.5 | 6160.1 | 1900.9 | 1641.9 | 1733.4 | 1960.1 | 2100.9 | 2030.5 | 2001.9 | 2003.9 | 2005.7 |
| 60° | 18011.7 | 7251.5 | 1813.4 | 1598.2 | 1664.8 | 1883.9 | 2051.4 | 1988.6 | 1960.1 | 1967.6 | 1969.6 |
| 62.5° | 21684.1 | 8853.4 | 1699.1 | 1533.4 | 1592.4 | 1801.9 | 1982.9 | 1935.2 | 1906.7 | 1925.7 | 1925.7 |
| 65° | 25501.3 | 10266.8 | 1558.2 | 1451.5 | 1516.2 | 1712.4 | 1897.2 | 1868.6 | 1840.0 | 1883.9 | 1881.9 |
| 67.5° | 26528.0 | 9950.7 | 1417.2 | 1362.0 | 1440.0 | 1613.4 | 1794.4 | 1779.1 | 1763.9 | 1840.0 | 1836.2 |
| 70° | 23566.0 | 7988.7 | 1287.6 | 1270.5 | 1356.2 | 1506.7 | 1683.9 | 1683.9 | 1674.3 | 1731.4 | 1718.1 |
| 72.5° | 17954.5 | 5664.8 | 1163.8 | 1173.3 | 1261.0 | 1390.5 | 1563.8 | 1577.2 | 1561.9 | 1590.5 | 1579.0 |
| 75° | 9611.5 | 3241.9 | 1040.0 | 1066.6 | 1142.8 | 1272.4 | 1430.5 | 1443.8 | 1434.3 | 1432.4 | 1438.2 |
| 77.5° | 3194.4 | 1584.8 | 910.5 | 952.4 | 1019.1 | 1150.5 | 1291.5 | 1312.4 | 1289.5 | 1285.7 | 1283.8 |
| 80° | 1422.9 | 996.3 | 767.6 | 822.9 | 881.9 | 1011.5 | 1144.8 | 1162.0 | 1137.1 | 1171.5 | 1127.6 |
| 82.5° | 914.3 | 655.2 | 615.2 | 676.2 | 733.4 | 872.4 | 998.1 | 1001.9 | 979.1 | 1137.1 | 969.6 |
| 85° | 443.9 | 405.7 | 462.9 | 518.1 | 567.6 | 685.7 | 826.6 | 828.6 | 771.4 | 702.9 | 678.1 |
| 87.5° | 221.0 | 236.2 | 308.6 | 358.1 | 382.9 | 470.5 | 601.9 | 590.4 | 565.7 | 514.3 | 474.3 |
| 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)