

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: P192304

Luminaire Tested: **GAN-AF-06-LED-U-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192304
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-06-LED-U-T3R-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39930 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

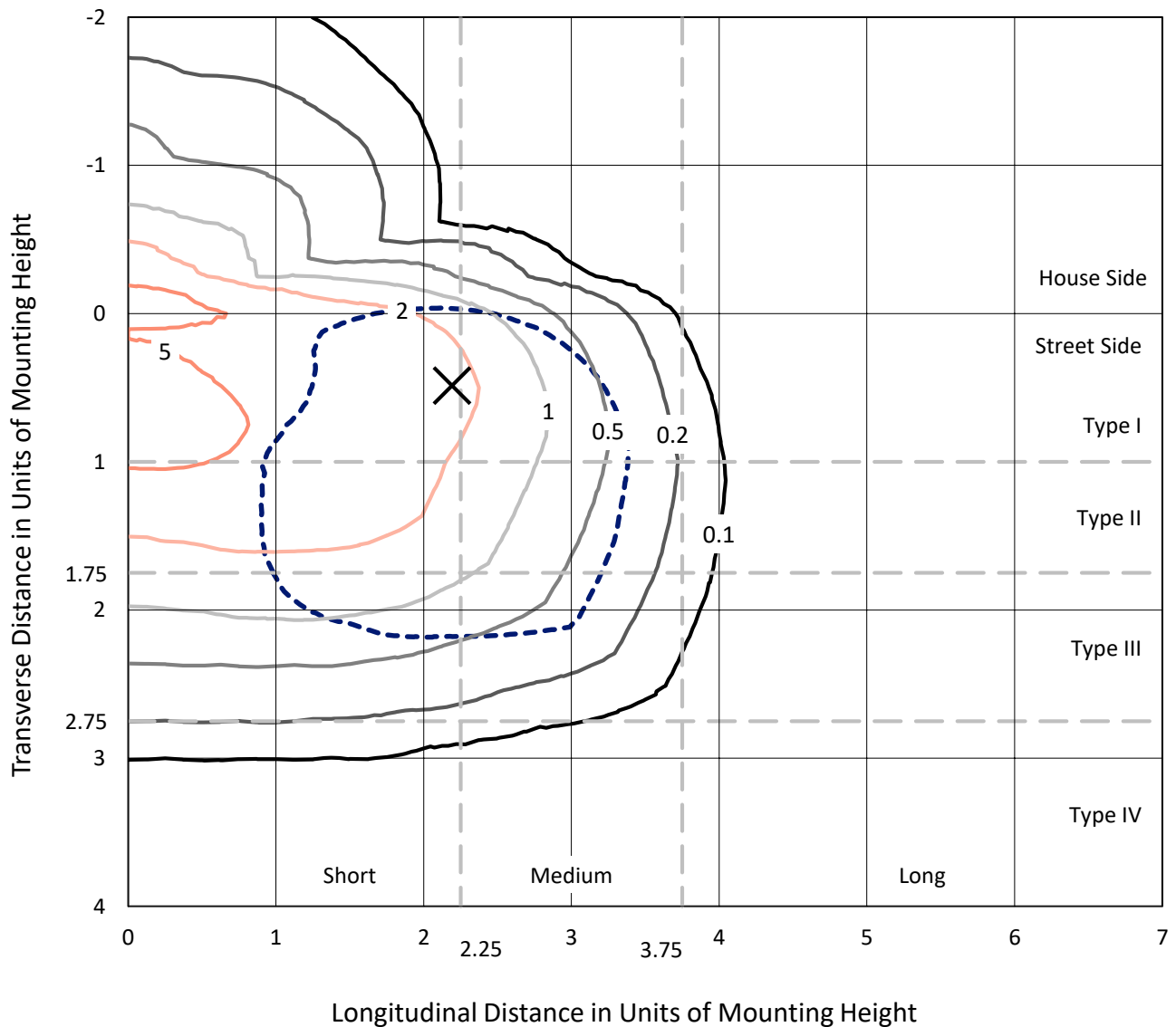


REPORT NUMBER: P192304

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

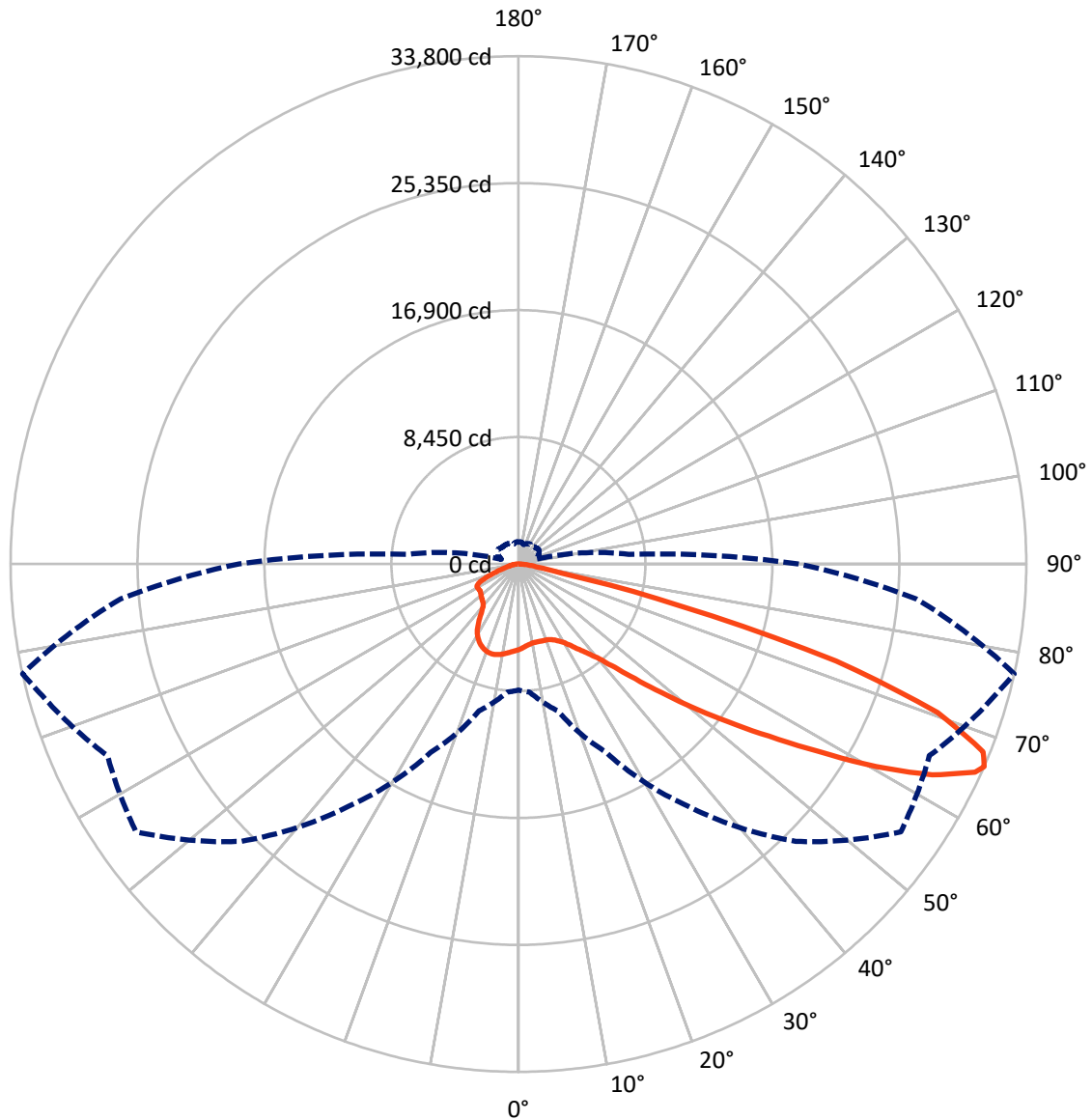


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192304

CATALOG NUMBER: GAN-AF-06-LED-U-T3R-7050-1200

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6821.8 | 0.0 | 6821.8 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 33108.2 | 0.0 | 33108.2 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 39930.0 | 0.0 | 39930.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 508.4 | 1.3 |
| 10°-20° | 1434.2 | 3.6 |
| 20°-30° | 2447.7 | 6.1 |
| 30°-40° | 3918.3 | 9.8 |
| 40°-50° | 6053.4 | 15.2 |
| 50°-60° | 8585.9 | 21.5 |
| 60°-70° | 11485.6 | 28.8 |
| 70°-80° | 4988.0 | 12.5 |
| 80°-90° | 508.6 | 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° | 39930.0 | 100.0 |
| 0°-180° | 39930.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192304

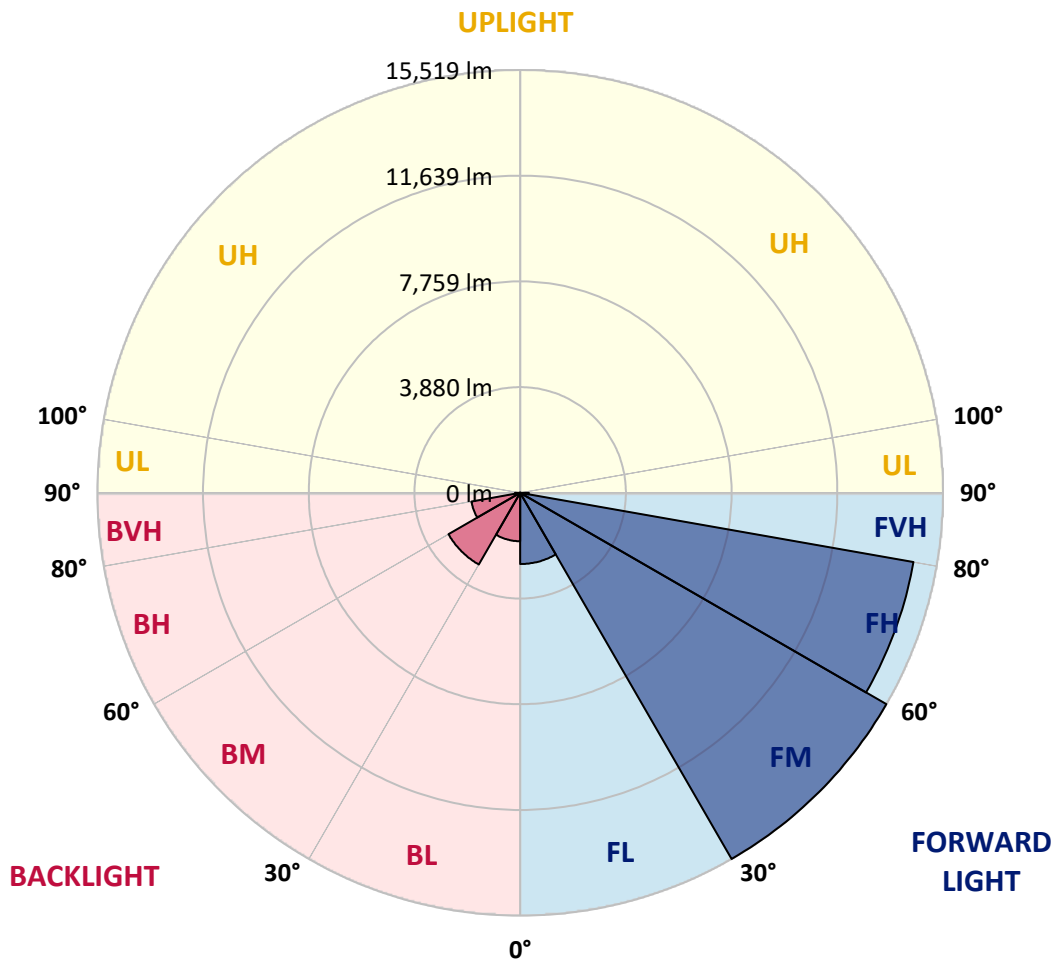
CATALOG NUMBER: GAN-AF-06-LED-U-T3R-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2613.6 | 6.5 | | | |
| FM | (30°-60°) | 15518.9 | 38.9 | | | |
| FH | (60°-80°) | 14656.7 | 36.7 | | | G5 |
| FVH | (80°-90°) | 319.0 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1776.7 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 3038.7 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1816.8 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 189.6 | 0.5 | | | G2/225 |
| 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: P192304

CATALOG NUMBER: GAN-AF-06-LED-U-T3R-7050-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 |
| 2.5° | 5033.7 | 5067.6 | 5095.9 | 5122.3 | 5175.2 | 5261.9 | 5361.9 | 5443.1 | 5560.0 | 5582.7 | 5644.9 |
| 5° | 4571.4 | 4571.4 | 4594.1 | 4633.7 | 4705.4 | 4835.6 | 4971.4 | 5152.5 | 5407.2 | 5467.6 | 5633.6 |
| 7.5° | 4346.9 | 4348.8 | 4362.0 | 4396.0 | 4458.2 | 4577.1 | 4726.1 | 4939.3 | 5284.6 | 5384.6 | 5667.6 |
| 10° | 4429.9 | 4411.0 | 4382.7 | 4365.8 | 4375.2 | 4445.0 | 4586.5 | 4824.2 | 5209.1 | 5337.4 | 5743.0 |
| 12.5° | 4894.0 | 4858.2 | 4760.1 | 4629.9 | 4505.4 | 4454.4 | 4537.5 | 4769.5 | 5177.0 | 5326.1 | 5843.0 |
| 15° | 5652.5 | 5637.4 | 5454.4 | 5184.6 | 4882.7 | 4629.9 | 4573.3 | 4748.8 | 5180.8 | 5339.3 | 5961.9 |
| 17.5° | 6603.4 | 6582.6 | 6341.1 | 5948.7 | 5456.3 | 4963.8 | 4699.7 | 4765.7 | 5194.0 | 5361.9 | 6077.0 |
| 20° | 7563.7 | 7499.5 | 7239.2 | 6771.3 | 6139.2 | 5418.5 | 4909.1 | 4809.1 | 5211.0 | 5386.5 | 6197.7 |
| 22.5° | 8280.6 | 8227.8 | 7993.8 | 7539.2 | 6810.9 | 5944.9 | 5190.2 | 4884.6 | 5265.7 | 5458.2 | 6346.8 |
| 25° | 8910.8 | 8914.5 | 8682.5 | 8242.9 | 7490.1 | 6503.4 | 5552.5 | 5086.5 | 5405.3 | 5605.3 | 6550.5 |
| 27.5° | 9690.0 | 9644.7 | 9427.7 | 8991.9 | 8161.8 | 7067.5 | 5990.2 | 5363.8 | 5612.9 | 5814.7 | 6818.4 |
| 30° | 10622.0 | 10589.9 | 10339.0 | 9844.7 | 8907.0 | 7673.1 | 6490.2 | 5686.4 | 5880.8 | 6090.2 | 7169.4 |
| 32.5° | 11718.1 | 11703.1 | 11442.7 | 10806.9 | 9767.3 | 8386.3 | 7076.9 | 6112.8 | 6280.7 | 6497.7 | 7673.1 |
| 35° | 13004.9 | 13006.7 | 12699.2 | 11935.1 | 10708.8 | 9216.4 | 7742.9 | 6661.9 | 6767.5 | 6993.9 | 8273.1 |
| 37.5° | 13797.3 | 13893.5 | 13778.4 | 12999.2 | 11774.7 | 10144.7 | 8607.0 | 7390.1 | 7322.2 | 7550.5 | 8916.4 |
| 40° | 13967.1 | 14084.0 | 14448.2 | 14052.0 | 12967.1 | 11167.2 | 9373.0 | 8090.1 | 8005.2 | 8284.4 | 9744.7 |
| 42.5° | 13729.3 | 13891.6 | 14661.4 | 14940.6 | 14233.1 | 12427.5 | 10403.1 | 9129.6 | 9022.1 | 9397.5 | 10774.8 |
| 45° | 13587.8 | 13708.6 | 14599.1 | 15402.8 | 15331.1 | 13852.0 | 11714.4 | 10435.2 | 10395.6 | 10888.0 | 11963.4 |
| 47.5° | 13342.6 | 13452.0 | 14308.6 | 15510.4 | 15976.4 | 15157.6 | 13289.7 | 12031.3 | 12108.7 | 12753.9 | 13304.8 |
| 50° | 13474.6 | 13519.9 | 13984.0 | 15236.8 | 16163.2 | 16114.1 | 15050.0 | 13880.3 | 14144.4 | 14950.0 | 14823.6 |
| 52.5° | 13455.8 | 13572.7 | 13946.3 | 14787.8 | 16187.7 | 16704.6 | 16783.9 | 15942.4 | 16499.0 | 17423.5 | 16508.4 |
| 55° | 10878.6 | 11093.7 | 13502.9 | 14674.6 | 16274.5 | 17283.8 | 18327.2 | 18115.9 | 19153.5 | 20230.8 | 18410.2 |
| 57.5° | 10388.0 | 10523.9 | 11859.6 | 14912.3 | 16734.8 | 18389.4 | 20044.0 | 20508.2 | 22243.9 | 23494.8 | 20727.0 |
| 60° | 10291.8 | 10459.7 | 11842.7 | 15202.8 | 17668.7 | 20191.2 | 22589.2 | 23404.2 | 26004.1 | 27373.8 | 23413.6 |
| 62.5° | 9991.8 | 10173.0 | 11731.4 | 15165.1 | 18995.1 | 22683.5 | 25847.5 | 26483.3 | 29569.9 | 30901.9 | 25660.7 |
| 65° | 9041.0 | 9210.8 | 10823.9 | 14555.7 | 19889.3 | 25343.7 | 29703.8 | 29305.7 | 32384.8 | 33386.6 | 26781.4 |
| 66° | 8390.0 | 8556.1 | 10108.8 | 13838.8 | 19681.8 | 26098.4 | 31069.8 | 30179.3 | 33014.9 | 33799.8 | 26562.5 |
| 67.5° | 7199.6 | 7329.7 | 8720.2 | 12233.2 | 18578.1 | 26309.7 | 32218.8 | 30835.8 | 33081.0 | 33358.3 | 25311.6 |
| 70° | 4548.8 | 4586.5 | 5667.6 | 8444.8 | 14063.3 | 22817.5 | 30469.8 | 29205.7 | 30352.8 | 29601.9 | 21219.4 |
| 72.5° | 1973.5 | 1960.3 | 2720.6 | 4296.0 | 7961.8 | 15310.4 | 24647.5 | 24098.5 | 23809.9 | 22096.7 | 14853.8 |
| 75° | 1098.0 | 1113.1 | 1413.1 | 1994.2 | 3235.6 | 7520.3 | 16123.5 | 15429.2 | 13027.5 | 11116.3 | 6735.4 |
| 77.5° | 881.1 | 901.8 | 1171.6 | 1415.0 | 1452.7 | 2622.5 | 7544.8 | 6139.2 | 3696.0 | 2965.9 | 1871.6 |
| 80° | 696.2 | 733.9 | 1022.6 | 1101.8 | 979.2 | 1081.1 | 2437.6 | 1948.9 | 1462.2 | 1341.4 | 969.8 |
| 82.5° | 550.9 | 577.3 | 877.3 | 833.9 | 684.9 | 728.3 | 1167.9 | 1137.7 | 950.9 | 866.0 | 560.3 |
| 85° | 396.2 | 445.3 | 720.7 | 628.3 | 449.0 | 490.5 | 775.4 | 743.4 | 545.2 | 445.3 | 247.2 |
| 87.5° | 162.3 | 211.3 | 509.4 | 417.0 | 250.9 | 228.3 | 386.8 | 364.1 | 258.5 | 188.7 | 122.6 |
| 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: P192304

CATALOG NUMBER: GAN-AF-06-LED-U-T3R-7050-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 | 5690.2 |
| 2.5° | 5684.6 | 5729.8 | 5788.3 | 5824.2 | 5843.0 | 5856.2 | 5877.0 | 5875.1 | 5880.8 | 5882.7 | 5890.2 |
| 5° | 5722.3 | 5797.8 | 5882.7 | 5905.3 | 5905.3 | 5884.5 | 5863.8 | 5829.8 | 5816.6 | 5812.8 | 5816.6 |
| 7.5° | 5820.4 | 5903.4 | 5977.0 | 5950.6 | 5894.0 | 5811.0 | 5703.4 | 5609.1 | 5558.1 | 5541.2 | 5537.4 |
| 10° | 5944.9 | 6044.9 | 6075.1 | 5975.1 | 5809.1 | 5609.1 | 5395.9 | 5241.2 | 5152.5 | 5128.0 | 5120.4 |
| 12.5° | 6095.9 | 6190.2 | 6148.7 | 5937.4 | 5629.8 | 5307.2 | 5012.9 | 4765.7 | 4580.8 | 4522.4 | 4518.6 |
| 15° | 6261.9 | 6335.5 | 6190.2 | 5820.4 | 5361.9 | 4886.5 | 4362.0 | 3935.6 | 3705.4 | 3631.9 | 3626.2 |
| 17.5° | 6416.6 | 6454.3 | 6165.7 | 5616.6 | 4967.6 | 4197.9 | 3501.7 | 3173.4 | 3094.1 | 3113.0 | 3116.8 |
| 20° | 6548.7 | 6548.7 | 6082.6 | 5324.2 | 4346.9 | 3290.4 | 2850.8 | 2845.1 | 2901.7 | 2958.3 | 2969.6 |
| 22.5° | 6693.9 | 6607.1 | 5937.4 | 4911.0 | 3467.7 | 2692.3 | 2628.1 | 2681.0 | 2745.1 | 2807.4 | 2816.8 |
| 25° | 6873.2 | 6654.3 | 5735.5 | 4284.6 | 2726.2 | 2445.1 | 2469.7 | 2513.1 | 2545.1 | 2584.7 | 2590.4 |
| 27.5° | 7073.1 | 6714.7 | 5469.5 | 3422.4 | 2365.9 | 2290.4 | 2309.3 | 2324.4 | 2320.6 | 2335.7 | 2339.5 |
| 30° | 7312.8 | 6784.5 | 5105.3 | 2675.3 | 2216.8 | 2158.4 | 2124.4 | 2111.2 | 2111.2 | 2135.7 | 2145.2 |
| 32.5° | 7633.5 | 6888.3 | 4582.7 | 2292.3 | 2145.2 | 2064.0 | 1954.6 | 1905.5 | 1924.4 | 2007.4 | 2026.3 |
| 35° | 7986.3 | 6999.6 | 3875.2 | 2162.1 | 2130.1 | 2020.6 | 1850.8 | 1760.3 | 1762.2 | 1839.5 | 1864.0 |
| 37.5° | 8371.2 | 7141.1 | 3099.8 | 2137.6 | 2164.0 | 2022.5 | 1796.1 | 1671.6 | 1620.7 | 1620.7 | 1630.1 |
| 40° | 8863.6 | 7286.3 | 2509.3 | 2154.6 | 2235.7 | 2045.2 | 1767.8 | 1601.8 | 1458.4 | 1462.2 | 1469.7 |
| 42.5° | 9505.1 | 7410.9 | 2192.3 | 2190.4 | 2322.5 | 2075.3 | 1765.9 | 1509.3 | 1384.8 | 1469.7 | 1547.1 |
| 45° | 10218.2 | 7473.1 | 2052.7 | 2222.5 | 2392.3 | 2094.2 | 1735.7 | 1494.2 | 1394.3 | 1647.1 | 1794.2 |
| 47.5° | 11038.9 | 7437.3 | 1975.3 | 2233.8 | 2409.3 | 2094.2 | 1701.8 | 1530.1 | 1460.3 | 1907.4 | 2079.1 |
| 50° | 11938.9 | 7333.5 | 1899.9 | 2211.2 | 2403.6 | 2090.4 | 1733.9 | 1565.9 | 1484.8 | 1952.7 | 2071.6 |
| 52.5° | 12997.3 | 7246.7 | 1820.6 | 2162.1 | 2364.0 | 2069.7 | 1771.6 | 1550.8 | 1407.5 | 1775.4 | 1858.4 |
| 55° | 14204.8 | 7271.2 | 1732.0 | 2092.3 | 2301.7 | 2030.1 | 1758.4 | 1490.5 | 1326.3 | 1564.1 | 1615.0 |
| 57.5° | 15748.1 | 7563.7 | 1626.3 | 2003.6 | 2216.8 | 1964.0 | 1711.2 | 1462.2 | 1301.8 | 1418.8 | 1449.0 |
| 60° | 17470.6 | 8073.1 | 1494.2 | 1915.0 | 2111.2 | 1858.4 | 1675.4 | 1475.4 | 1313.1 | 1407.5 | 1422.6 |
| 62.5° | 18734.7 | 8369.3 | 1381.0 | 1784.8 | 1967.8 | 1741.4 | 1630.1 | 1492.4 | 1343.3 | 1447.1 | 1443.3 |
| 65° | 19078.1 | 7882.5 | 1239.5 | 1594.2 | 1773.5 | 1618.8 | 1573.5 | 1511.2 | 1356.5 | 1479.2 | 1462.2 |
| 66° | 18597.0 | 7358.0 | 1177.3 | 1505.6 | 1675.4 | 1558.4 | 1545.2 | 1509.3 | 1350.9 | 1482.9 | 1454.6 |
| 67.5° | 17429.1 | 6282.6 | 1069.7 | 1375.4 | 1518.8 | 1467.8 | 1499.9 | 1492.4 | 1335.8 | 1479.2 | 1439.5 |
| 70° | 14214.2 | 4286.5 | 915.0 | 1145.2 | 1264.1 | 1292.4 | 1413.1 | 1432.0 | 1286.7 | 1413.1 | 1326.3 |
| 72.5° | 9931.5 | 2611.2 | 809.4 | 888.6 | 1022.6 | 1101.8 | 1294.3 | 1349.0 | 1220.7 | 1233.9 | 1150.9 |
| 75° | 4799.7 | 1386.7 | 733.9 | 688.6 | 794.3 | 920.7 | 1150.9 | 1235.8 | 1116.9 | 1032.0 | 1001.8 |
| 77.5° | 1496.1 | 847.1 | 622.6 | 554.7 | 622.6 | 743.4 | 962.2 | 1083.0 | 994.3 | 864.1 | 852.8 |
| 80° | 803.7 | 622.6 | 479.2 | 445.3 | 492.4 | 583.0 | 756.6 | 903.7 | 854.7 | 775.4 | 692.4 |
| 82.5° | 530.2 | 403.7 | 354.7 | 345.3 | 375.4 | 445.3 | 562.2 | 749.0 | 749.0 | 664.1 | 483.0 |
| 85° | 273.6 | 247.2 | 243.4 | 243.4 | 262.2 | 296.2 | 383.0 | 577.3 | 615.1 | 350.9 | 290.5 |
| 87.5° | 135.8 | 141.5 | 132.1 | 137.7 | 147.2 | 145.3 | 183.0 | 290.5 | 347.1 | 213.2 | 177.3 |
| 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)