

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: P192328

Luminaire Tested: **GAN-AF-10-LED-U-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T4FT-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47888 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

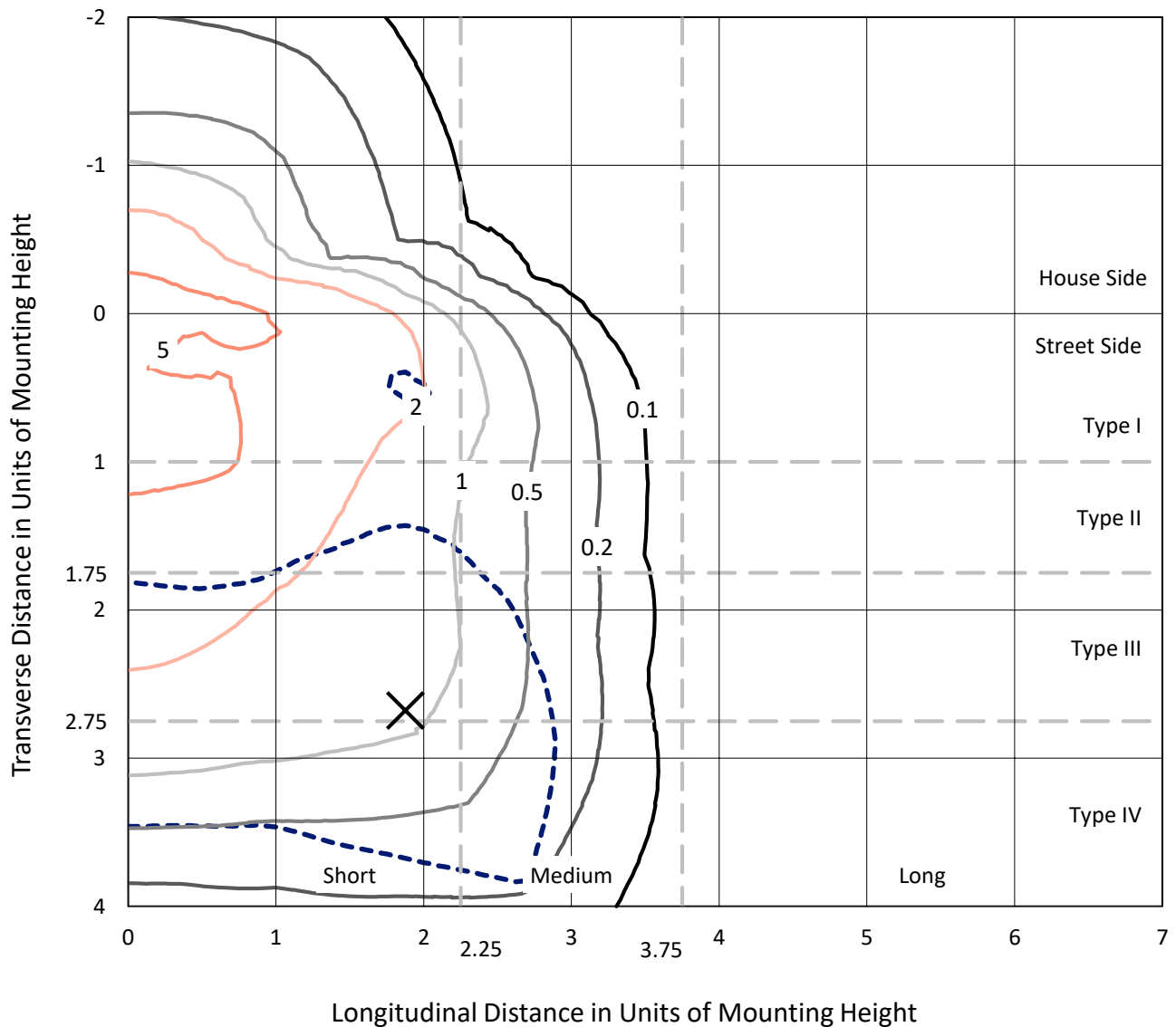


REPORT NUMBER: P192328

CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7050-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

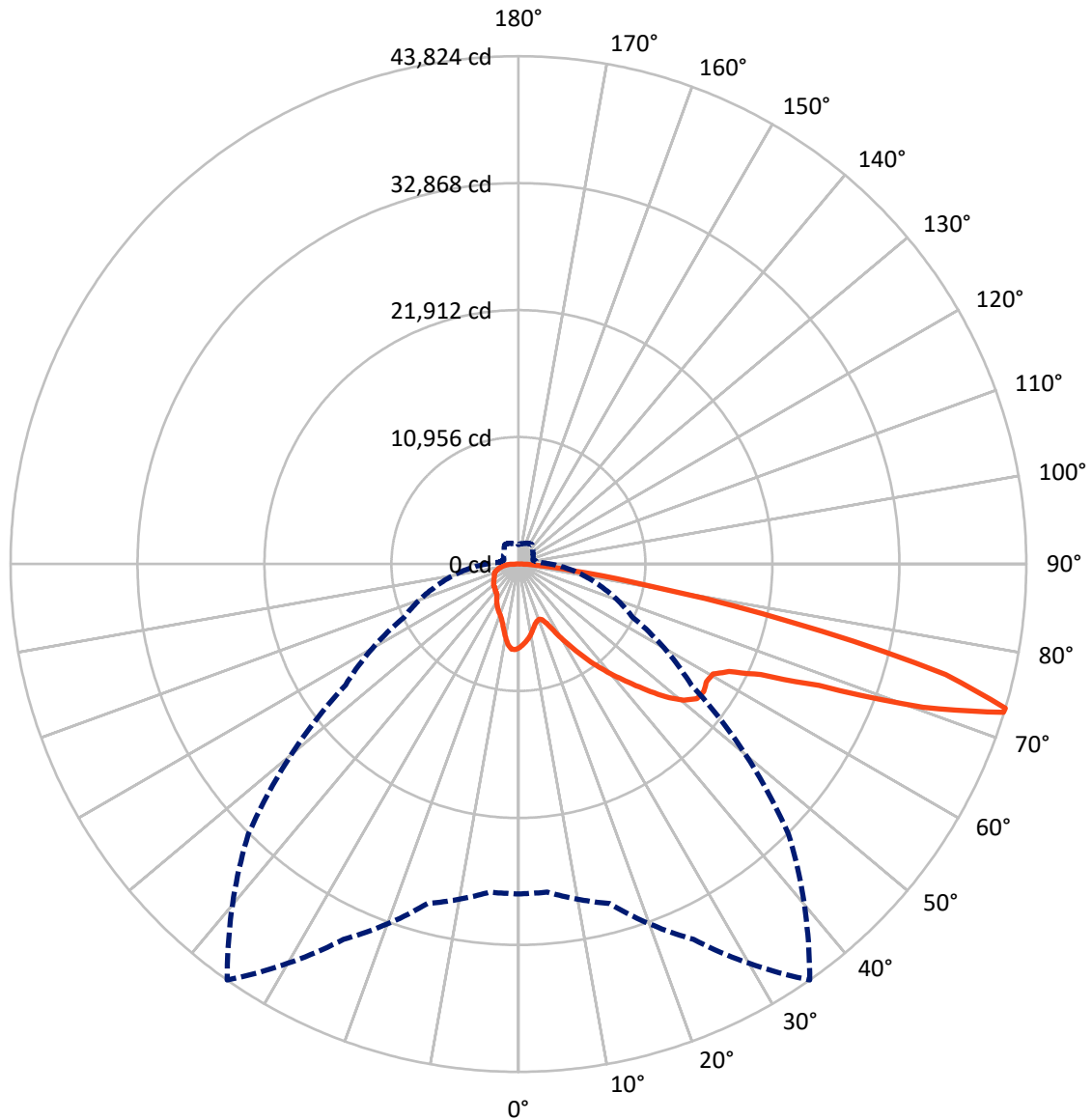


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192328

CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7050-800

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P192328

CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7050-800

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9133.6 | 0.0 | 9133.6 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 38754.4 | 0.0 | 38754.4 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 47888.0 | 0.0 | 47888.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 654.3 | 1.4 |
| 10°-20° | 1633.1 | 3.4 |
| 20°-30° | 2640.1 | 5.5 |
| 30°-40° | 4427.1 | 9.2 |
| 40°-50° | 6824.2 | 14.3 |
| 50°-60° | 9155.4 | 19.1 |
| 60°-70° | 12196.9 | 25.5 |
| 70°-80° | 9302.5 | 19.4 |
| 80°-90° | 1054.4 | 2.2 |
| 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° | 47888.0 | 100.0 |
| 0°-180° | 47888.0 | 100.0 |



REPORT NUMBER: P192328

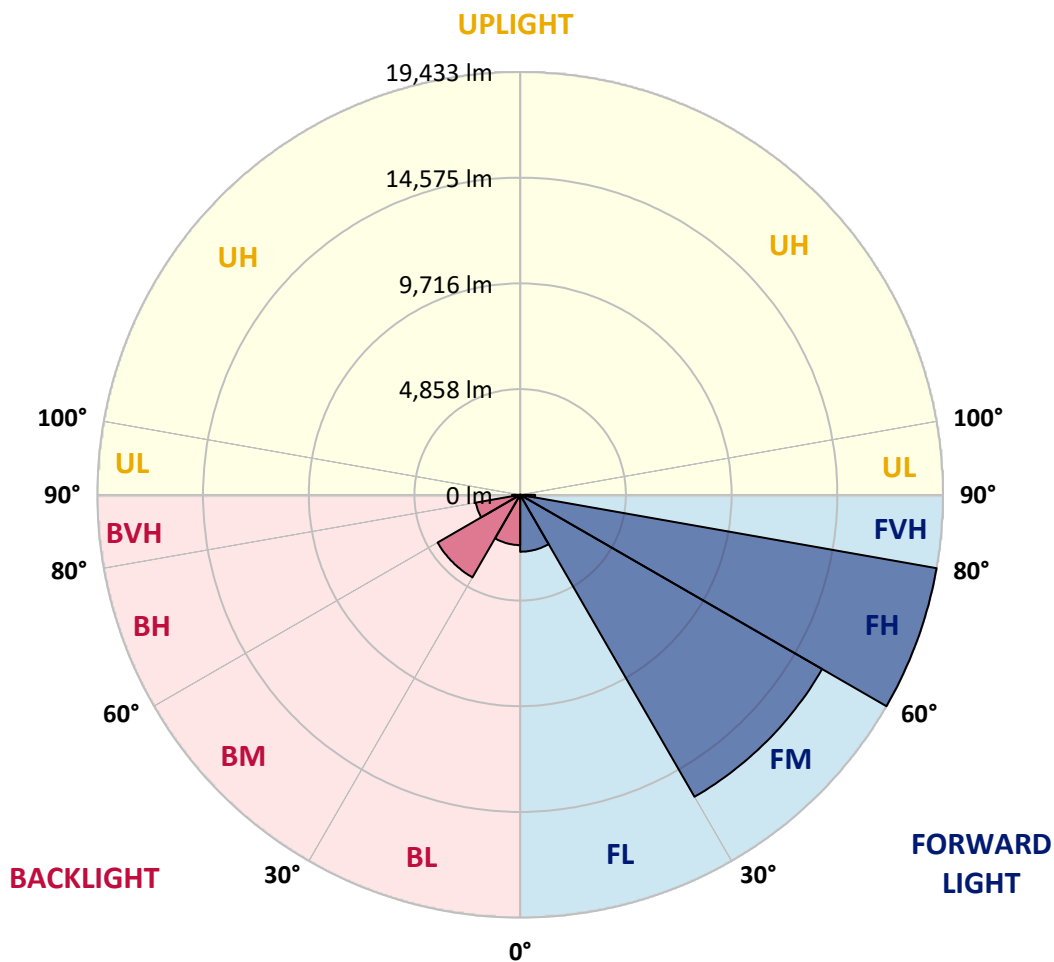
CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2616.3 | 5.5 | | | |
| FM | (30°-60°) | 16023.6 | 33.5 | | | |
| FH | (60°-80°) | 19432.9 | 40.6 | | | G5 |
| FVH | (80°-90°) | 681.6 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 2311.2 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 4383.1 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 2066.4 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 372.8 | 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 IV Short





REPORT NUMBER: P192328

CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7050-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 |
| 2.5° | 6942.6 | 6956.4 | 6940.3 | 6961.0 | 6995.5 | 7032.3 | 7057.6 | 7094.4 | 7135.8 | 7193.3 | 7207.1 |
| 5° | 6616.1 | 6636.8 | 6636.8 | 6673.6 | 6740.3 | 6800.1 | 6855.2 | 6915.0 | 7002.4 | 7101.3 | 7140.4 |
| 7.5° | 6257.3 | 6268.8 | 6289.5 | 6344.7 | 6441.3 | 6526.4 | 6604.6 | 6701.2 | 6820.7 | 6951.8 | 7020.8 |
| 10° | 5825.0 | 5841.1 | 5873.3 | 5951.5 | 6082.6 | 6199.8 | 6312.5 | 6445.9 | 6597.7 | 6761.0 | 6848.3 |
| 12.5° | 5519.1 | 5514.6 | 5528.3 | 5585.8 | 5700.8 | 5843.4 | 6006.7 | 6176.8 | 6363.1 | 6554.0 | 6659.8 |
| 15° | 5415.7 | 5390.4 | 5337.5 | 5323.7 | 5385.8 | 5528.3 | 5716.9 | 5926.2 | 6149.3 | 6379.2 | 6510.3 |
| 17.5° | 5480.1 | 5436.4 | 5291.5 | 5185.7 | 5176.5 | 5284.6 | 5484.7 | 5719.2 | 5976.8 | 6257.3 | 6420.6 |
| 20° | 5884.8 | 5781.3 | 5424.9 | 5178.8 | 5093.7 | 5146.6 | 5321.4 | 5569.7 | 5873.3 | 6245.8 | 6455.1 |
| 22.5° | 6852.9 | 6701.2 | 5944.6 | 5487.0 | 5199.5 | 5135.1 | 5266.2 | 5530.6 | 5884.8 | 6388.4 | 6655.2 |
| 25° | 8262.6 | 8046.5 | 6836.8 | 6255.0 | 5661.7 | 5319.1 | 5349.0 | 5620.3 | 6048.1 | 6719.6 | 7041.5 |
| 27.5° | 9375.7 | 9235.4 | 8002.8 | 7338.2 | 6503.4 | 5815.8 | 5618.0 | 5845.7 | 6381.5 | 7262.3 | 7591.1 |
| 30° | 10038.0 | 9952.9 | 9249.2 | 8566.2 | 7577.3 | 6606.9 | 6133.2 | 6268.8 | 6903.5 | 8014.3 | 8285.6 |
| 32.5° | 10806.0 | 10755.4 | 10410.5 | 9782.7 | 8736.4 | 7646.3 | 6949.5 | 6901.2 | 7602.6 | 8918.0 | 9042.2 |
| 35° | 11601.7 | 11585.6 | 11383.2 | 10932.5 | 9980.5 | 9016.9 | 8032.7 | 7706.1 | 8363.8 | 9856.3 | 9778.1 |
| 37.5° | 12342.2 | 12314.6 | 12197.3 | 11935.2 | 11282.1 | 10488.7 | 9136.5 | 8531.7 | 9184.8 | 10753.1 | 10405.9 |
| 40° | 13705.9 | 13489.7 | 13087.3 | 12889.5 | 12597.5 | 11728.2 | 10012.7 | 9302.1 | 10035.7 | 11608.6 | 10948.6 |
| 42.5° | 15368.5 | 15016.7 | 14267.0 | 13995.6 | 13954.3 | 12705.5 | 10610.6 | 10049.5 | 10893.4 | 12457.2 | 11482.1 |
| 45° | 16677.0 | 16345.9 | 15699.7 | 15357.0 | 15508.8 | 13590.9 | 11210.8 | 10847.4 | 11776.5 | 13347.1 | 12031.7 |
| 47.5° | 18072.9 | 17553.2 | 16697.7 | 16801.2 | 17132.4 | 14428.0 | 11822.5 | 11705.2 | 12744.6 | 14342.9 | 12714.7 |
| 50° | 18123.5 | 17725.7 | 17350.8 | 17969.4 | 18484.6 | 15198.4 | 12588.3 | 12604.4 | 13929.0 | 15596.2 | 13623.1 |
| 52.5° | 17072.6 | 16987.5 | 17583.1 | 18555.8 | 19298.6 | 15807.8 | 13459.8 | 13533.4 | 15444.4 | 17035.8 | 14621.1 |
| 55° | 16704.6 | 16608.0 | 17295.6 | 18351.2 | 19409.0 | 16311.4 | 14405.0 | 14538.4 | 17277.2 | 18553.5 | 15593.9 |
| 57.5° | 17601.5 | 17387.6 | 17433.6 | 18254.6 | 19140.0 | 16863.3 | 15435.2 | 15704.3 | 19268.7 | 19880.4 | 16219.4 |
| 60° | 20108.1 | 19650.5 | 18781.2 | 18760.5 | 19284.8 | 17691.2 | 16626.4 | 16955.3 | 21338.4 | 20515.1 | 15975.6 |
| 62.5° | 23624.3 | 23166.6 | 21538.5 | 20478.3 | 20400.2 | 19057.2 | 18089.0 | 18176.4 | 22534.2 | 19655.1 | 14487.8 |
| 65° | 27430.2 | 27020.8 | 25201.8 | 23704.7 | 22982.7 | 21320.0 | 19788.5 | 18721.4 | 22143.3 | 17288.7 | 11884.6 |
| 67.5° | 32050.2 | 31610.9 | 30047.2 | 28665.1 | 27970.6 | 24971.9 | 20982.0 | 18199.4 | 19662.0 | 13393.1 | 8543.2 |
| 70° | 35281.2 | 34832.7 | 34216.4 | 35336.4 | 37035.8 | 30240.3 | 21136.0 | 16076.8 | 14685.5 | 8901.9 | 5142.0 |
| 72.5° | 31065.9 | 30856.6 | 31981.2 | 36697.7 | 43776.1 | 33436.9 | 19105.5 | 11705.2 | 8529.4 | 4725.8 | 2975.7 |
| 73° | 28462.7 | 28416.7 | 30334.6 | 35743.4 | 43824.4 | 32944.7 | 18215.5 | 10879.6 | 7315.2 | 4180.8 | 2720.5 |
| 75° | 12852.7 | 13223.0 | 17426.7 | 27301.4 | 38075.2 | 27147.3 | 12820.5 | 6241.2 | 4132.5 | 2888.4 | 2053.6 |
| 77.5° | 3088.4 | 3217.2 | 5452.5 | 12965.4 | 24045.1 | 16178.0 | 5808.9 | 3086.1 | 2642.3 | 2039.8 | 1499.4 |
| 80° | 1315.4 | 1359.1 | 2099.6 | 4790.2 | 11321.2 | 6514.9 | 2676.8 | 2067.4 | 1828.2 | 1423.5 | 1050.9 |
| 82.5° | 731.3 | 777.3 | 1191.2 | 2173.2 | 4569.4 | 2221.5 | 1632.7 | 1439.6 | 1202.7 | 857.8 | 683.0 |
| 85° | 413.9 | 439.2 | 696.8 | 1214.2 | 1936.3 | 892.3 | 977.3 | 956.7 | 678.4 | 441.5 | 335.7 |
| 87.5° | 195.5 | 211.6 | 335.7 | 563.4 | 758.9 | 349.5 | 496.7 | 547.3 | 425.4 | 269.1 | 174.8 |
| 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: P192328

CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7050-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 | 7227.8 |
| 2.5° | 7223.2 | 7264.6 | 7312.9 | 7338.2 | 7361.2 | 7388.8 | 7416.4 | 7416.4 | 7421.0 | 7423.3 |
| 5° | 7172.6 | 7257.7 | 7333.6 | 7365.8 | 7372.7 | 7372.7 | 7365.8 | 7329.0 | 7296.8 | 7310.6 |
| 7.5° | 7066.8 | 7191.0 | 7255.4 | 7243.9 | 7156.5 | 7055.3 | 6970.2 | 6866.7 | 6813.9 | 6804.7 |
| 10° | 6915.0 | 7057.6 | 7069.1 | 6954.1 | 6738.0 | 6521.8 | 6342.4 | 6167.7 | 6084.9 | 6064.2 |
| 12.5° | 6747.2 | 6878.2 | 6804.7 | 6567.8 | 6220.5 | 5905.5 | 5677.8 | 5500.8 | 5422.6 | 5401.9 |
| 15° | 6611.5 | 6701.2 | 6514.9 | 6142.4 | 5705.4 | 5372.0 | 5183.4 | 5052.3 | 4997.1 | 4981.0 |
| 17.5° | 6540.2 | 6558.6 | 6218.2 | 5714.6 | 5250.1 | 4971.8 | 4854.6 | 4792.5 | 4771.8 | 4760.3 |
| 20° | 6574.7 | 6445.9 | 5935.4 | 5316.8 | 4877.5 | 4682.1 | 4654.5 | 4638.4 | 4633.8 | 4626.9 |
| 22.5° | 6747.2 | 6411.4 | 5675.5 | 4939.6 | 4551.0 | 4465.9 | 4488.9 | 4486.6 | 4482.0 | 4477.4 |
| 25° | 7055.3 | 6441.3 | 5422.6 | 4580.9 | 4277.3 | 4258.9 | 4300.3 | 4300.3 | 4281.9 | 4281.9 |
| 27.5° | 7462.4 | 6503.4 | 5139.7 | 4240.5 | 4029.0 | 4031.3 | 4063.5 | 4054.3 | 4033.6 | 4019.8 |
| 30° | 7959.1 | 6542.5 | 4808.6 | 3934.7 | 3796.7 | 3787.5 | 3796.7 | 3757.6 | 3695.5 | 3690.9 |
| 32.5° | 8467.3 | 6494.2 | 4424.5 | 3663.3 | 3550.7 | 3530.0 | 3523.1 | 3467.9 | 3396.6 | 3375.9 |
| 35° | 8927.2 | 6317.1 | 4033.6 | 3447.2 | 3316.1 | 3270.1 | 3302.3 | 3283.9 | 3219.5 | 3203.4 |
| 37.5° | 9263.0 | 5988.3 | 3681.7 | 3256.3 | 3148.2 | 3136.7 | 3157.4 | 3164.3 | 3088.4 | 3072.3 |
| 40° | 9488.3 | 5542.1 | 3380.5 | 3095.3 | 3116.0 | 3072.3 | 3003.3 | 2955.0 | 2932.0 | 2925.1 |
| 42.5° | 9670.0 | 5077.6 | 3127.5 | 3019.4 | 3122.9 | 2996.4 | 2847.0 | 2768.8 | 2810.2 | 2828.6 |
| 45° | 9879.3 | 4624.6 | 2916.0 | 2925.1 | 3088.4 | 2909.1 | 2738.9 | 2663.0 | 2679.1 | 2683.7 |
| 47.5° | 10166.7 | 4072.7 | 2688.3 | 2773.4 | 2973.4 | 2849.3 | 2672.2 | 2564.1 | 2488.2 | 2453.7 |
| 50° | 10564.6 | 3419.6 | 2451.4 | 2603.2 | 2860.8 | 2805.6 | 2568.7 | 2453.7 | 2313.4 | 2281.2 |
| 52.5° | 10840.5 | 2810.2 | 2256.0 | 2460.6 | 2759.6 | 2718.2 | 2485.9 | 2336.4 | 2189.3 | 2161.7 |
| 55° | 10691.1 | 2334.1 | 2085.8 | 2301.9 | 2626.2 | 2610.1 | 2416.9 | 2216.9 | 2101.9 | 2078.9 |
| 57.5° | 9943.7 | 2032.9 | 1954.7 | 2152.5 | 2462.9 | 2518.1 | 2324.9 | 2115.7 | 2032.9 | 2016.8 |
| 60° | 8517.9 | 1844.3 | 1871.9 | 2051.3 | 2329.5 | 2426.1 | 2233.0 | 2060.5 | 2005.3 | 1993.8 |
| 62.5° | 6609.2 | 1717.8 | 1809.8 | 1977.7 | 2226.1 | 2361.7 | 2182.4 | 2053.6 | 2032.9 | 2019.1 |
| 65° | 4735.0 | 1616.7 | 1743.1 | 1904.1 | 2131.8 | 2301.9 | 2164.0 | 2044.4 | 2049.0 | 2037.5 |
| 67.5° | 3217.2 | 1527.0 | 1662.6 | 1821.3 | 2039.8 | 2249.1 | 2138.7 | 2012.2 | 2069.7 | 2055.9 |
| 70° | 2251.4 | 1439.6 | 1568.4 | 1715.5 | 1924.8 | 2175.5 | 2092.7 | 1963.9 | 1959.3 | 1904.1 |
| 72.5° | 1756.9 | 1324.6 | 1439.6 | 1568.4 | 1777.6 | 2072.0 | 2000.7 | 1855.8 | 1779.9 | 1722.4 |
| 73° | 1676.4 | 1297.0 | 1407.4 | 1536.2 | 1745.4 | 2046.7 | 1975.4 | 1825.9 | 1740.8 | 1687.9 |
| 75° | 1386.7 | 1177.4 | 1278.6 | 1393.6 | 1607.5 | 1927.1 | 1851.2 | 1690.2 | 1582.2 | 1550.0 |
| 77.5° | 1090.0 | 1007.2 | 1103.8 | 1207.3 | 1416.6 | 1752.3 | 1667.2 | 1513.2 | 1453.4 | 1425.8 |
| 80° | 807.2 | 834.8 | 919.9 | 1011.8 | 1228.0 | 1566.1 | 1490.2 | 1336.1 | 1602.9 | 1536.2 |
| 82.5° | 568.0 | 632.4 | 710.6 | 793.4 | 1030.2 | 1384.4 | 1292.4 | 1133.7 | 1172.8 | 975.0 |
| 85° | 335.7 | 413.9 | 487.5 | 558.8 | 742.8 | 1147.5 | 1067.0 | 903.8 | 740.5 | 706.0 |
| 87.5° | 195.5 | 230.0 | 250.7 | 324.3 | 510.5 | 864.7 | 752.0 | 669.2 | 384.0 | 259.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)