

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: P194864

Luminaire Tested: **GAN-AF-06-LED-U-T4FT-7060-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194864
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-06-LED-U-T4FT-7060-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 28936 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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



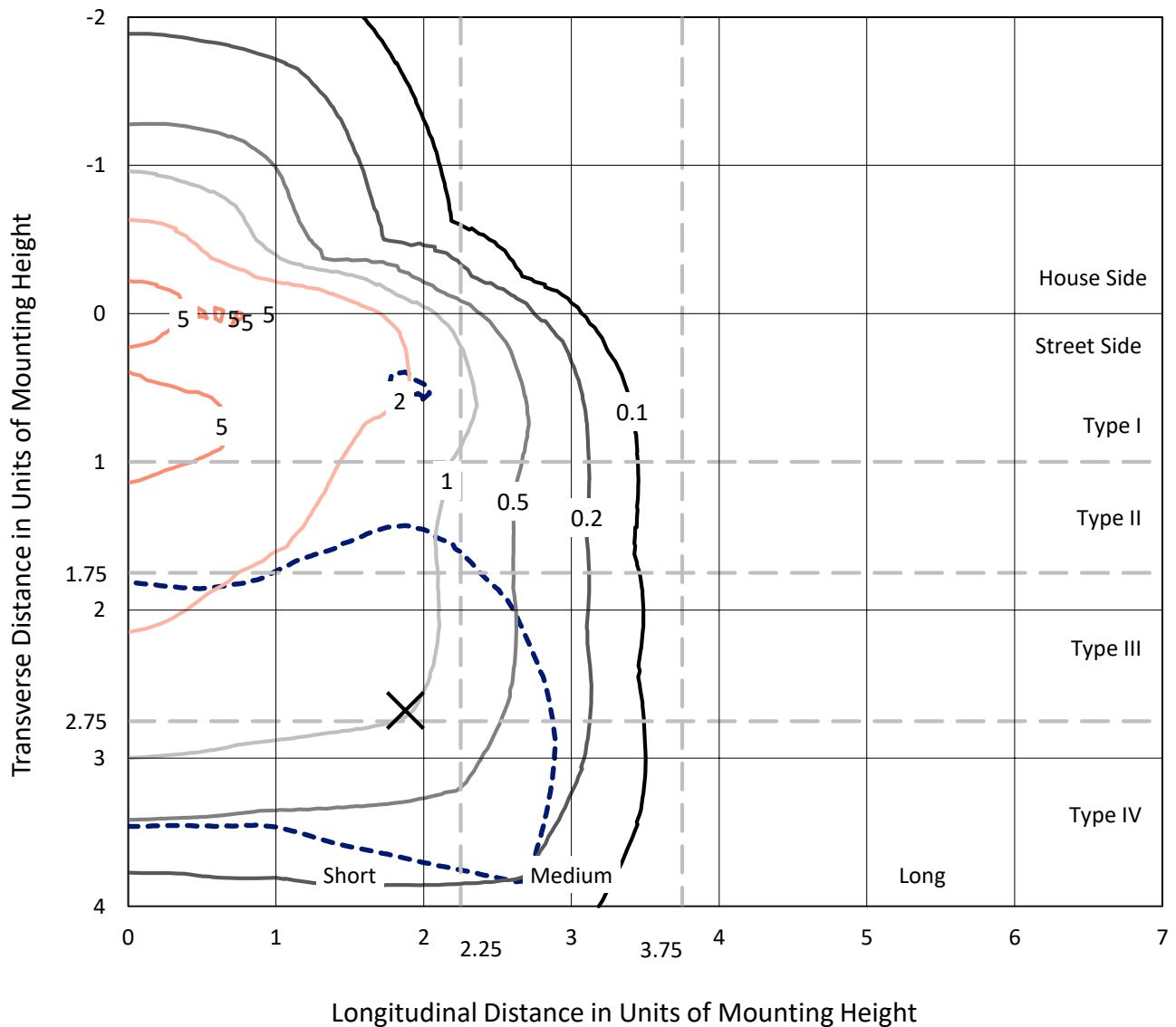


REPORT NUMBER: P194864

CATALOG NUMBER: GAN-AF-06-LED-U-T4FT-7060-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

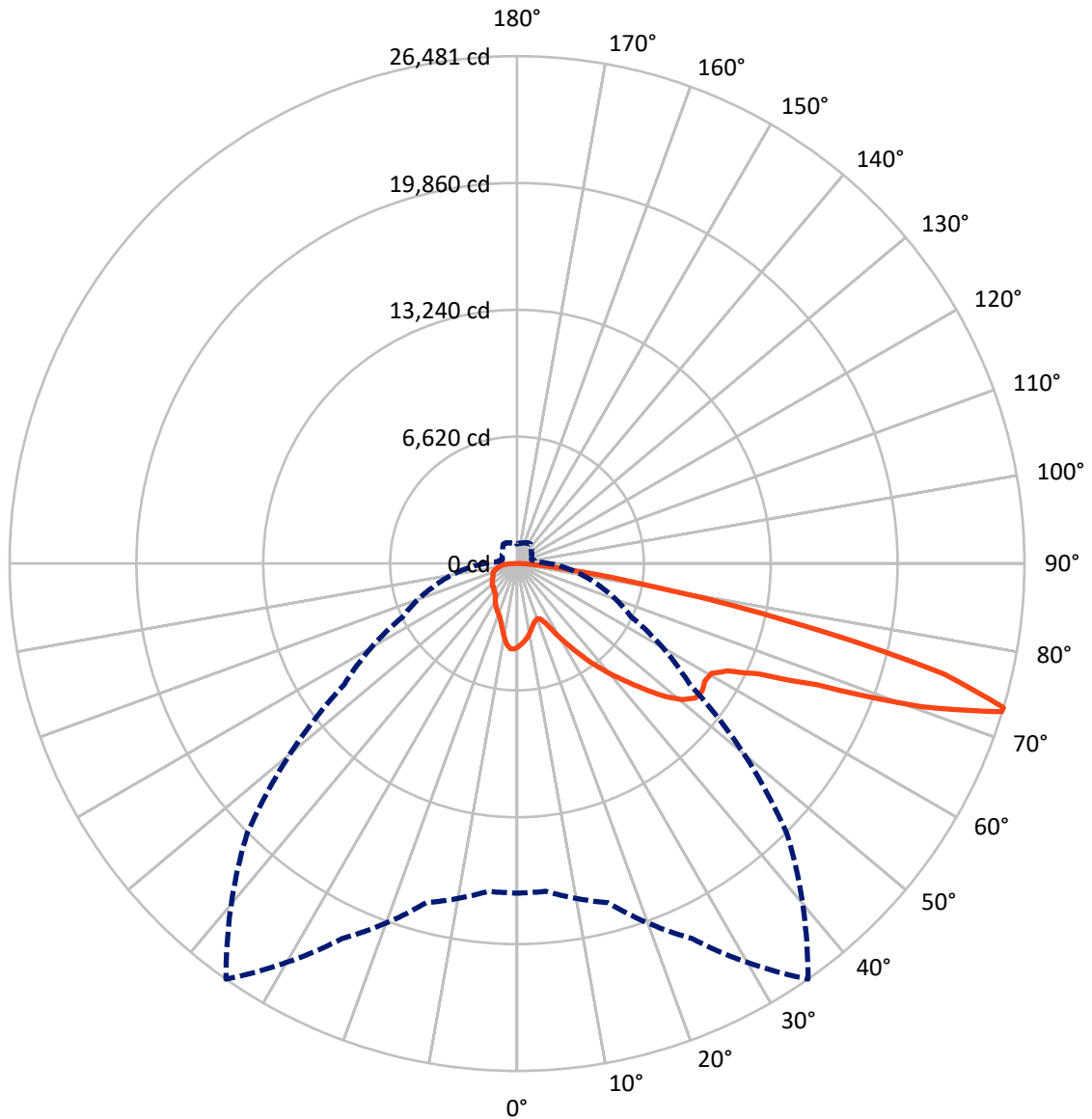


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194864

CATALOG NUMBER: GAN-AF-06-LED-U-T4FT-7060-800-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194864

CATALOG NUMBER: GAN-AF-06-LED-U-T4FT-7060-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5518.9 | 0.0 | 5518.9 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 23417.1 | 0.0 | 23417.1 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 28936.0 | 0.0 | 28936.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 395.4 | 1.4 |
| 10°-20° | 986.8 | 3.4 |
| 20°-30° | 1595.3 | 5.5 |
| 30°-40° | 2675.1 | 9.2 |
| 40°-50° | 4123.5 | 14.3 |
| 50°-60° | 5532.1 | 19.1 |
| 60°-70° | 7369.9 | 25.5 |
| 70°-80° | 5621.0 | 19.4 |
| 80°-90° | 637.1 | 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° | 28936.0 | 100.0 |
| 0°-180° | 28936.0 | 100.0 |



REPORT NUMBER: P194864

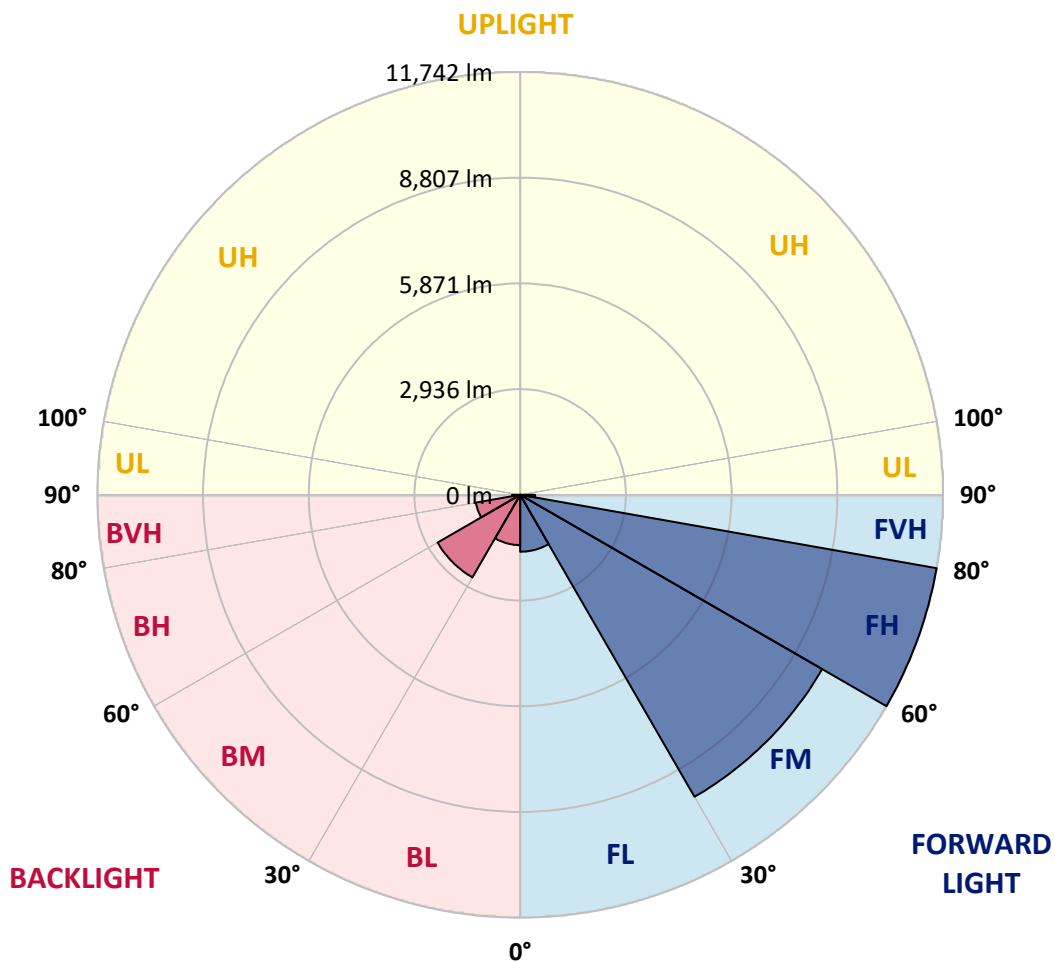
CATALOG NUMBER: GAN-AF-06-LED-U-T4FT-7060-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1580.9 | 5.5 | | | |
| FM | (30°-60°) | 9682.2 | 33.5 | | | |
| FH | (60°-80°) | 11742.2 | 40.6 | | | G4/12000 |
| FVH | (80°-90°) | 411.8 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1396.5 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2648.5 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1248.6 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 225.3 | 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-G4

Type IV Short





REPORT NUMBER: P194864

CATALOG NUMBER: GAN-AF-06-LED-U-T4FT-7060-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 |
| 2.5° | 4195.0 | 4203.4 | 4193.6 | 4206.2 | 4227.0 | 4249.2 | 4264.5 | 4286.7 | 4311.8 | 4346.5 | 4354.8 |
| 5° | 3997.7 | 4010.2 | 4010.2 | 4032.5 | 4072.8 | 4108.9 | 4142.2 | 4178.4 | 4231.2 | 4290.9 | 4314.5 |
| 7.5° | 3781.0 | 3787.9 | 3800.4 | 3833.8 | 3892.1 | 3943.5 | 3990.8 | 4049.1 | 4121.4 | 4200.6 | 4242.3 |
| 10° | 3519.7 | 3529.4 | 3548.9 | 3596.1 | 3675.3 | 3746.2 | 3814.3 | 3894.9 | 3986.6 | 4085.3 | 4138.1 |
| 12.5° | 3334.9 | 3332.1 | 3340.5 | 3375.2 | 3444.7 | 3530.8 | 3629.5 | 3732.3 | 3844.9 | 3960.2 | 4024.1 |
| 15° | 3272.4 | 3257.1 | 3225.1 | 3216.8 | 3254.3 | 3340.5 | 3454.4 | 3580.9 | 3715.6 | 3854.6 | 3933.8 |
| 17.5° | 3311.3 | 3284.9 | 3197.3 | 3133.4 | 3127.9 | 3193.2 | 3314.1 | 3455.8 | 3611.4 | 3781.0 | 3879.6 |
| 20° | 3555.8 | 3493.3 | 3277.9 | 3129.3 | 3077.8 | 3109.8 | 3215.4 | 3365.5 | 3548.9 | 3774.0 | 3900.5 |
| 22.5° | 4140.8 | 4049.1 | 3592.0 | 3315.5 | 3141.8 | 3102.9 | 3182.1 | 3341.9 | 3555.8 | 3860.2 | 4021.3 |
| 25° | 4992.6 | 4862.0 | 4131.1 | 3779.6 | 3421.1 | 3214.0 | 3232.1 | 3396.0 | 3654.5 | 4060.3 | 4254.8 |
| 27.5° | 5665.2 | 5580.4 | 4835.6 | 4434.0 | 3929.6 | 3514.2 | 3394.7 | 3532.2 | 3856.0 | 4388.2 | 4586.9 |
| 30° | 6065.4 | 6014.0 | 5588.8 | 5176.1 | 4578.6 | 3992.2 | 3705.9 | 3787.9 | 4171.4 | 4842.6 | 5006.5 |
| 32.5° | 6529.5 | 6498.9 | 6290.5 | 5911.1 | 5278.9 | 4620.2 | 4199.2 | 4170.0 | 4593.8 | 5388.7 | 5463.7 |
| 35° | 7010.3 | 7000.5 | 6878.2 | 6605.9 | 6030.6 | 5448.4 | 4853.7 | 4656.4 | 5053.8 | 5955.6 | 5908.3 |
| 37.5° | 7457.7 | 7441.0 | 7370.1 | 7211.7 | 6817.1 | 6337.7 | 5520.7 | 5155.2 | 5549.8 | 6497.5 | 6287.7 |
| 40° | 8281.7 | 8151.1 | 7907.9 | 7788.4 | 7611.9 | 7086.7 | 6050.1 | 5620.7 | 6064.0 | 7014.4 | 6615.6 |
| 42.5° | 9286.3 | 9073.7 | 8620.7 | 8456.8 | 8431.8 | 7677.2 | 6411.4 | 6072.3 | 6582.3 | 7527.2 | 6938.0 |
| 45° | 10077.0 | 9876.9 | 9486.4 | 9279.4 | 9371.1 | 8212.2 | 6774.0 | 6554.5 | 7115.9 | 8064.9 | 7270.1 |
| 47.5° | 10920.4 | 10606.4 | 10089.5 | 10152.0 | 10352.1 | 8718.0 | 7143.7 | 7072.8 | 7700.9 | 8666.6 | 7682.8 |
| 50° | 10951.0 | 10710.6 | 10484.1 | 10857.9 | 11169.2 | 9183.5 | 7606.4 | 7616.1 | 8416.5 | 9423.9 | 8231.7 |
| 52.5° | 10316.0 | 10264.6 | 10624.5 | 11212.2 | 11661.1 | 9551.7 | 8133.0 | 8177.5 | 9332.2 | 10293.8 | 8834.7 |
| 55° | 10093.7 | 10035.3 | 10450.8 | 11088.6 | 11727.8 | 9856.0 | 8704.1 | 8784.7 | 10439.7 | 11210.9 | 9422.5 |
| 57.5° | 10635.6 | 10506.4 | 10534.1 | 11030.2 | 11565.2 | 10189.5 | 9326.6 | 9489.2 | 11643.0 | 12012.6 | 9800.5 |
| 60° | 12150.2 | 11873.7 | 11348.4 | 11335.9 | 11652.7 | 10689.8 | 10046.4 | 10245.1 | 12893.6 | 12396.1 | 9653.2 |
| 62.5° | 14274.8 | 13998.3 | 13014.5 | 12373.9 | 12326.7 | 11515.2 | 10930.2 | 10983.0 | 13616.2 | 11876.4 | 8754.1 |
| 65° | 16574.5 | 16327.2 | 15228.0 | 14323.4 | 13887.1 | 12882.5 | 11957.0 | 11312.3 | 13379.9 | 10446.6 | 7181.2 |
| 67.5° | 19366.1 | 19100.7 | 18155.8 | 17320.7 | 16901.0 | 15089.1 | 12678.2 | 10996.9 | 11880.6 | 8092.7 | 5162.2 |
| 70° | 21318.4 | 21047.4 | 20675.0 | 21351.8 | 22378.6 | 18272.5 | 12771.3 | 9714.3 | 8873.6 | 5378.9 | 3107.0 |
| 72.5° | 18771.4 | 18644.9 | 19324.4 | 22174.4 | 26451.4 | 20204.0 | 11544.3 | 7072.8 | 5153.8 | 2855.5 | 1798.1 |
| 73° | 17198.4 | 17170.6 | 18329.5 | 21597.7 | 26480.6 | 19906.6 | 11006.6 | 6573.9 | 4420.1 | 2526.2 | 1643.8 |
| 75° | 7766.2 | 7989.9 | 10530.0 | 16496.7 | 23006.7 | 16403.6 | 7746.7 | 3771.2 | 2497.0 | 1745.3 | 1240.9 |
| 77.5° | 1866.2 | 1944.0 | 3294.6 | 7834.3 | 14529.1 | 9775.5 | 3510.0 | 1864.8 | 1596.6 | 1232.5 | 906.0 |
| 80° | 794.8 | 821.2 | 1268.7 | 2894.4 | 6840.7 | 3936.6 | 1617.4 | 1249.2 | 1104.7 | 860.1 | 635.0 |
| 82.5° | 441.9 | 469.7 | 719.8 | 1313.1 | 2761.0 | 1342.3 | 986.6 | 869.9 | 726.7 | 518.3 | 412.7 |
| 85° | 250.1 | 265.4 | 421.0 | 733.7 | 1170.0 | 539.1 | 590.6 | 578.1 | 409.9 | 266.8 | 202.9 |
| 87.5° | 118.1 | 127.8 | 202.9 | 340.4 | 458.5 | 211.2 | 300.1 | 330.7 | 257.1 | 162.6 | 105.6 |
| 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: P194864

CATALOG NUMBER: GAN-AF-06-LED-U-T4FT-7060-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 | 4367.3 |
| 2.5° | 4364.6 | 4389.6 | 4418.8 | 4434.0 | 4447.9 | 4464.6 | 4481.3 | 4481.3 | 4484.1 | 4485.5 |
| 5° | 4334.0 | 4385.4 | 4431.3 | 4450.7 | 4454.9 | 4454.9 | 4450.7 | 4428.5 | 4409.0 | 4417.4 |
| 7.5° | 4270.1 | 4345.1 | 4384.0 | 4377.1 | 4324.3 | 4263.1 | 4211.7 | 4149.2 | 4117.2 | 4111.7 |
| 10° | 4178.4 | 4264.5 | 4271.5 | 4202.0 | 4071.4 | 3940.8 | 3832.4 | 3726.8 | 3676.7 | 3664.2 |
| 12.5° | 4076.9 | 4156.1 | 4111.7 | 3968.5 | 3758.7 | 3568.4 | 3430.8 | 3323.8 | 3276.5 | 3264.0 |
| 15° | 3994.9 | 4049.1 | 3936.6 | 3711.5 | 3447.5 | 3246.0 | 3132.0 | 3052.8 | 3019.5 | 3009.8 |
| 17.5° | 3951.9 | 3963.0 | 3757.3 | 3453.0 | 3172.3 | 3004.2 | 2933.3 | 2895.8 | 2883.3 | 2876.4 |
| 20° | 3972.7 | 3894.9 | 3586.4 | 3212.6 | 2947.2 | 2829.1 | 2812.4 | 2802.7 | 2799.9 | 2795.8 |
| 22.5° | 4076.9 | 3874.1 | 3429.4 | 2984.7 | 2749.9 | 2698.5 | 2712.4 | 2711.0 | 2708.2 | 2705.4 |
| 25° | 4263.1 | 3892.1 | 3276.5 | 2768.0 | 2584.6 | 2573.4 | 2598.4 | 2598.4 | 2587.3 | 2587.3 |
| 27.5° | 4509.1 | 3929.6 | 3105.6 | 2562.3 | 2434.5 | 2435.9 | 2455.3 | 2449.8 | 2437.3 | 2428.9 |
| 30° | 4809.2 | 3953.3 | 2905.5 | 2377.5 | 2294.1 | 2288.6 | 2294.1 | 2270.5 | 2233.0 | 2230.2 |
| 32.5° | 5116.3 | 3924.1 | 2673.5 | 2213.5 | 2145.5 | 2133.0 | 2128.8 | 2095.4 | 2052.4 | 2039.9 |
| 35° | 5394.2 | 3817.1 | 2437.3 | 2082.9 | 2003.7 | 1975.9 | 1995.4 | 1984.3 | 1945.4 | 1935.6 |
| 37.5° | 5597.1 | 3618.4 | 2224.7 | 1967.6 | 1902.3 | 1895.3 | 1907.8 | 1912.0 | 1866.2 | 1856.4 |
| 40° | 5733.3 | 3348.8 | 2042.6 | 1870.3 | 1882.8 | 1856.4 | 1814.7 | 1785.6 | 1771.7 | 1767.5 |
| 42.5° | 5843.0 | 3068.1 | 1889.8 | 1824.5 | 1887.0 | 1810.6 | 1720.3 | 1673.0 | 1698.0 | 1709.1 |
| 45° | 5969.5 | 2794.4 | 1761.9 | 1767.5 | 1866.2 | 1757.8 | 1654.9 | 1609.1 | 1618.8 | 1621.6 |
| 47.5° | 6143.2 | 2460.9 | 1624.4 | 1675.8 | 1796.7 | 1721.6 | 1614.7 | 1549.3 | 1503.5 | 1482.6 |
| 50° | 6383.6 | 2066.3 | 1481.3 | 1573.0 | 1728.6 | 1695.2 | 1552.1 | 1482.6 | 1397.9 | 1378.4 |
| 52.5° | 6550.3 | 1698.0 | 1363.1 | 1486.8 | 1667.5 | 1642.4 | 1502.1 | 1411.8 | 1322.8 | 1306.2 |
| 55° | 6460.0 | 1410.4 | 1260.3 | 1390.9 | 1586.9 | 1577.1 | 1460.4 | 1339.5 | 1270.0 | 1256.1 |
| 57.5° | 6008.4 | 1228.4 | 1181.1 | 1300.6 | 1488.2 | 1521.6 | 1404.8 | 1278.4 | 1228.4 | 1218.6 |
| 60° | 5146.9 | 1114.4 | 1131.1 | 1239.5 | 1407.6 | 1466.0 | 1349.2 | 1245.0 | 1211.7 | 1204.7 |
| 62.5° | 3993.6 | 1038.0 | 1093.6 | 1195.0 | 1345.1 | 1427.1 | 1318.7 | 1240.9 | 1228.4 | 1220.0 |
| 65° | 2861.1 | 976.9 | 1053.3 | 1150.5 | 1288.1 | 1390.9 | 1307.6 | 1235.3 | 1238.1 | 1231.1 |
| 67.5° | 1944.0 | 922.7 | 1004.6 | 1100.5 | 1232.5 | 1359.0 | 1292.3 | 1215.9 | 1250.6 | 1242.3 |
| 70° | 1360.4 | 869.9 | 947.7 | 1036.6 | 1163.0 | 1314.5 | 1264.5 | 1186.7 | 1183.9 | 1150.5 |
| 72.5° | 1061.6 | 800.4 | 869.9 | 947.7 | 1074.1 | 1252.0 | 1208.9 | 1121.4 | 1075.5 | 1040.8 |
| 73° | 1013.0 | 783.7 | 850.4 | 928.2 | 1054.7 | 1236.7 | 1193.6 | 1103.3 | 1051.9 | 1019.9 |
| 75° | 837.9 | 711.4 | 772.6 | 842.1 | 971.3 | 1164.4 | 1118.6 | 1021.3 | 956.0 | 936.6 |
| 77.5° | 658.6 | 608.6 | 667.0 | 729.5 | 856.0 | 1058.8 | 1007.4 | 914.3 | 878.2 | 861.5 |
| 80° | 487.7 | 504.4 | 555.8 | 611.4 | 742.0 | 946.3 | 900.4 | 807.3 | 968.5 | 928.2 |
| 82.5° | 343.2 | 382.1 | 429.4 | 479.4 | 622.5 | 836.5 | 780.9 | 685.0 | 708.7 | 589.2 |
| 85° | 202.9 | 250.1 | 294.6 | 337.7 | 448.8 | 693.4 | 644.7 | 546.1 | 447.4 | 426.6 |
| 87.5° | 118.1 | 139.0 | 151.5 | 195.9 | 308.5 | 522.5 | 454.4 | 404.4 | 232.1 | 157.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)