

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: P268795

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268795  
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-08-LED-U-T4FT-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 33687.4 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-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

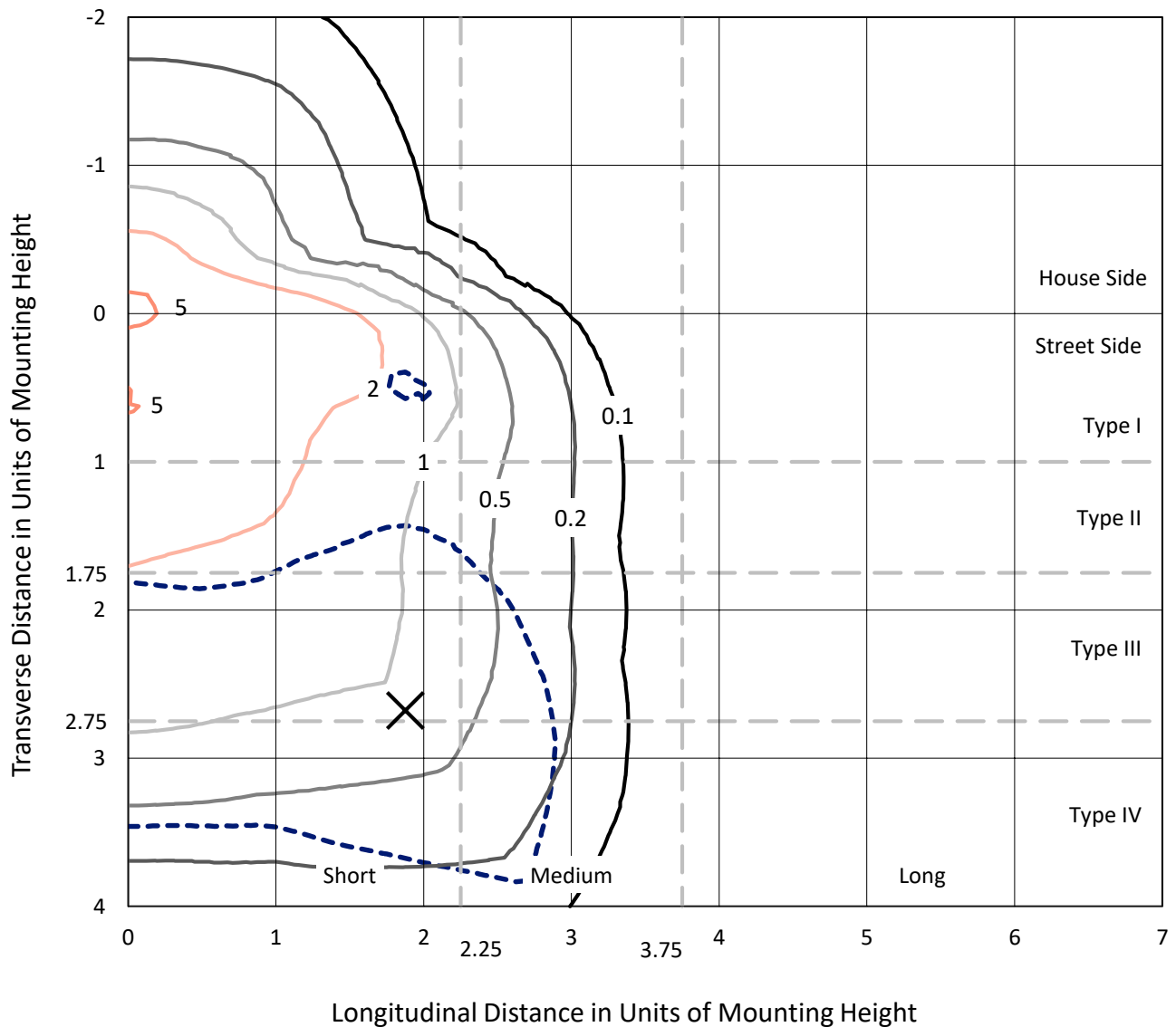


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

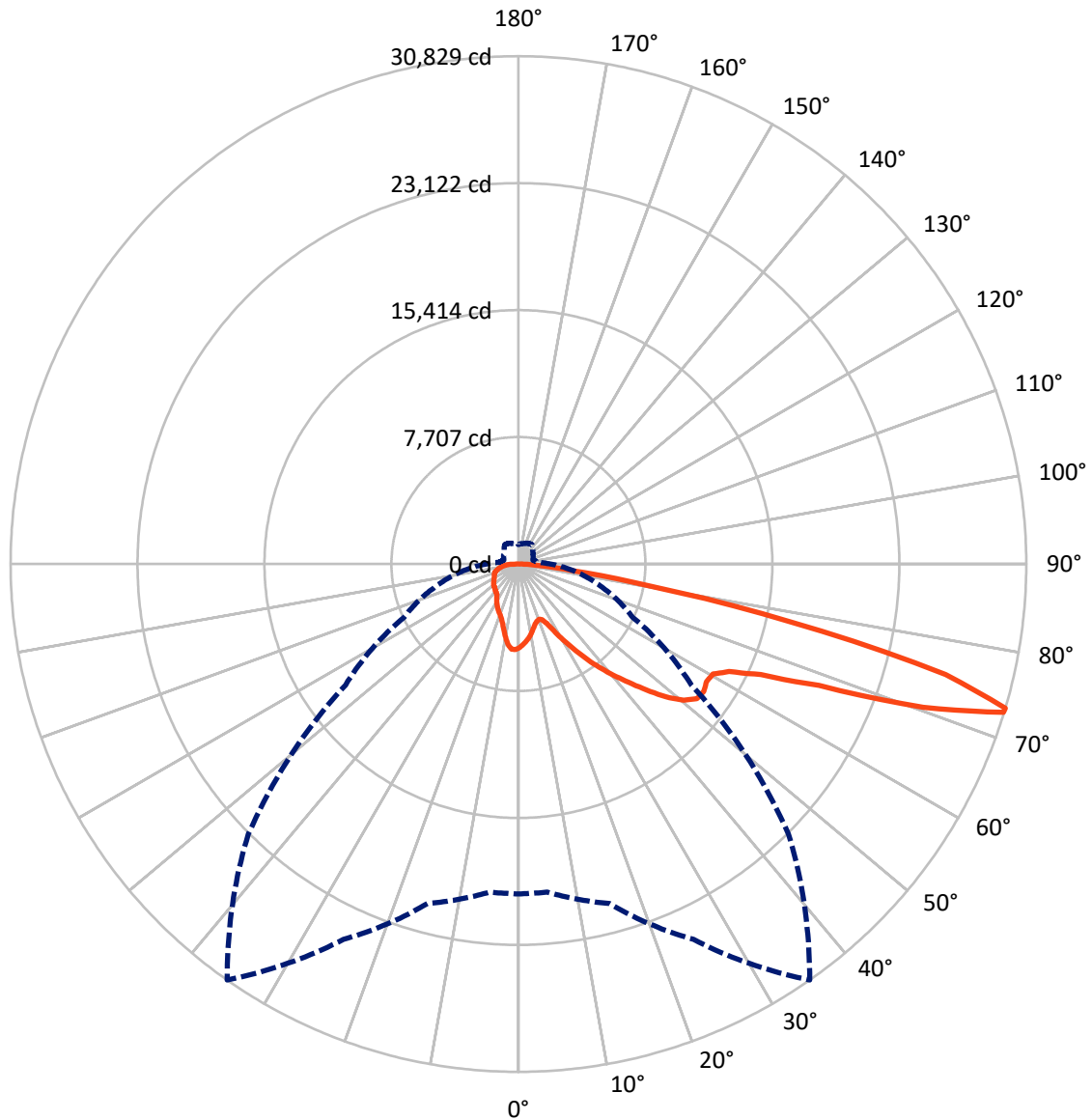


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Non-Cutoff

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CATALOG NUMBER: GAN-AF-08-LED-U-T4FT-7027-800

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-08-LED-U-T4FT-7027-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6425.1   | 0.0    | 6425.1  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 27262.3  | 0.0    | 27262.3 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 33687.4  | 0.0    | 33687.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 460.3   | 1.4       |
| 10°-20°   | 1148.8  | 3.4       |
| 20°-30°   | 1857.2  | 5.5       |
| 30°-40°   | 3114.3  | 9.2       |
| 40°-50°   | 4800.6  | 14.3      |
| 50°-60°   | 6440.5  | 19.1      |
| 60°-70°   | 8580.0  | 25.5      |
| 70°-80°   | 6544.0  | 19.4      |
| 80°-90°   | 741.7   | 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°    | 33687.4 | 100.0     |
| 0°-180°   | 33687.4 | 100.0     |



REPORT NUMBER: P268795

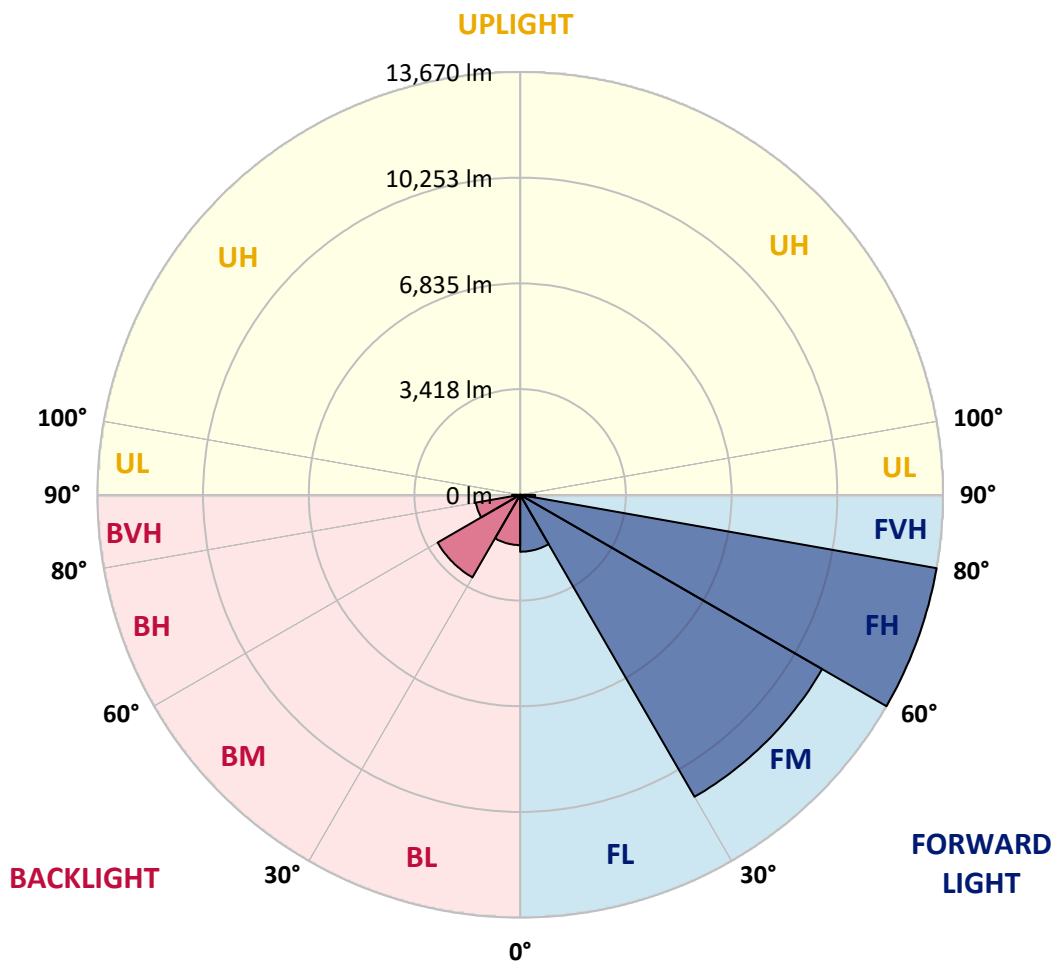
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1840.5  | 5.5       |                         |      |         |
| FM (30°-60°)   | 11272.0 | 33.5      |                         |      |         |
| FH (60°-80°)   | 13670.3 | 40.6      |                         |      | G5      |
| FVH (80°-90°)  | 479.5   | 1.4       |                         |      | G3/500  |
| BL (0°-30°)    | 1625.9  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3083.3  | 9.2       | B3/5000                 |      |         |
| BH (60°-80°)   | 1453.6  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 262.3   | 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-G5**

Type IV Short





REPORT NUMBER: P268795

CATALOG NUMBER: GAN-AF-08-LED-U-T4FT-7027-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  | 5084.4  |
| 2.5°  | 4883.8  | 4893.5  | 4882.3  | 4896.8  | 4921.1  | 4947.0  | 4964.8  | 4990.7  | 5019.8  | 5060.2  | 5069.9  |
| 5°    | 4654.2  | 4668.8  | 4668.8  | 4694.6  | 4741.6  | 4783.6  | 4822.5  | 4864.4  | 4925.9  | 4995.6  | 5023.1  |
| 7.5°  | 4401.9  | 4409.9  | 4424.4  | 4463.3  | 4531.2  | 4591.1  | 4646.0  | 4714.0  | 4798.1  | 4890.4  | 4938.9  |
| 10°   | 4097.7  | 4108.9  | 4131.7  | 4186.6  | 4278.8  | 4361.4  | 4440.6  | 4534.5  | 4641.3  | 4756.0  | 4817.5  |
| 12.5° | 3882.6  | 3879.3  | 3889.0  | 3929.5  | 4010.4  | 4110.6  | 4225.4  | 4345.2  | 4476.3  | 4610.6  | 4684.9  |
| 15°   | 3809.7  | 3791.9  | 3754.7  | 3745.0  | 3788.7  | 3889.0  | 4021.6  | 4168.9  | 4325.8  | 4487.6  | 4579.7  |
| 17.5° | 3854.9  | 3824.3  | 3722.3  | 3647.9  | 3641.5  | 3717.5  | 3858.2  | 4023.2  | 4204.4  | 4401.9  | 4516.7  |
| 20°   | 4139.7  | 4066.9  | 3816.2  | 3643.0  | 3583.2  | 3620.4  | 3743.3  | 3918.0  | 4131.7  | 4393.7  | 4540.9  |
| 22.5° | 4820.8  | 4714.0  | 4181.8  | 3859.8  | 3657.7  | 3612.4  | 3704.6  | 3890.6  | 4139.7  | 4494.0  | 4681.6  |
| 25°   | 5812.5  | 5660.4  | 4809.4  | 4400.2  | 3982.8  | 3741.8  | 3762.8  | 3953.7  | 4254.6  | 4726.9  | 4953.4  |
| 27.5° | 6595.4  | 6496.7  | 5629.7  | 5162.1  | 4574.9  | 4091.2  | 3952.1  | 4112.3  | 4489.2  | 5108.8  | 5340.1  |
| 30°   | 7061.3  | 7001.5  | 6506.5  | 6026.0  | 5330.4  | 4647.7  | 4314.4  | 4409.9  | 4856.3  | 5637.8  | 5828.7  |
| 32.5° | 7601.6  | 7566.1  | 7323.4  | 6881.7  | 6145.7  | 5379.0  | 4888.8  | 4854.8  | 5348.1  | 6273.6  | 6360.9  |
| 35°   | 8161.5  | 8150.1  | 8007.8  | 7690.6  | 7020.9  | 6343.0  | 5650.7  | 5420.9  | 5883.5  | 6933.5  | 6878.5  |
| 37.5° | 8682.3  | 8662.9  | 8580.3  | 8395.9  | 7936.4  | 7378.4  | 6427.2  | 6001.8  | 6461.1  | 7564.4  | 7320.2  |
| 40°   | 9641.6  | 9489.5  | 9206.4  | 9067.3  | 8861.8  | 8250.4  | 7043.5  | 6543.7  | 7059.7  | 8166.2  | 7702.0  |
| 42.5° | 10811.2 | 10563.7 | 10036.4 | 9845.5  | 9816.3  | 8937.9  | 7464.1  | 7069.4  | 7663.1  | 8763.1  | 8077.2  |
| 45°   | 11731.7 | 11498.8 | 11044.1 | 10803.0 | 10909.8 | 9560.8  | 7886.4  | 7630.7  | 8284.3  | 9389.3  | 8463.9  |
| 47.5° | 12713.6 | 12348.0 | 11746.1 | 11819.0 | 12052.0 | 10149.5 | 8316.7  | 8234.1  | 8965.4  | 10089.8 | 8944.3  |
| 50°   | 12749.3 | 12469.4 | 12205.6 | 12640.8 | 13003.1 | 10691.4 | 8855.3  | 8866.7  | 9798.5  | 10971.3 | 9583.4  |
| 52.5° | 12009.9 | 11950.1 | 12369.0 | 13053.4 | 13575.8 | 11120.2 | 9468.5  | 9520.2  | 10864.6 | 11984.0 | 10285.5 |
| 55°   | 11751.1 | 11683.1 | 12166.9 | 12909.4 | 13653.5 | 11474.4 | 10133.4 | 10227.3 | 12153.9 | 13051.7 | 10969.7 |
| 57.5° | 12382.0 | 12231.5 | 12263.9 | 12841.5 | 13464.2 | 11862.7 | 10858.2 | 11047.4 | 13554.9 | 13985.2 | 11409.7 |
| 60°   | 14145.3 | 13823.4 | 13211.8 | 13197.3 | 13566.2 | 12445.1 | 11696.0 | 11927.3 | 15010.8 | 14431.6 | 11238.2 |
| 62.5° | 16618.7 | 16296.8 | 15151.5 | 14405.7 | 14350.8 | 13405.9 | 12724.9 | 12786.5 | 15852.0 | 13826.6 | 10191.6 |
| 65°   | 19296.1 | 19008.1 | 17728.5 | 16675.3 | 16167.4 | 14997.8 | 13920.5 | 13169.8 | 15577.0 | 12162.0 | 8360.3  |
| 67.5° | 22546.1 | 22237.2 | 21137.1 | 20164.9 | 19676.3 | 17566.7 | 14760.1 | 12802.6 | 13831.5 | 9421.6  | 6009.8  |
| 70°   | 24818.9 | 24503.4 | 24069.9 | 24857.8 | 26053.3 | 21272.9 | 14868.3 | 11309.4 | 10330.7 | 6262.2  | 3617.2  |
| 72.5° | 21853.6 | 21706.5 | 22497.5 | 25815.5 | 30794.7 | 23521.6 | 13439.9 | 8234.1  | 6000.0  | 3324.4  | 2093.3  |
| 73°   | 20022.4 | 19990.2 | 21339.2 | 25144.1 | 30828.8 | 23175.4 | 12814.0 | 7653.4  | 5145.9  | 2941.1  | 1913.7  |
| 75°   | 9041.4  | 9301.9  | 12259.0 | 19205.6 | 26784.5 | 19097.1 | 9018.8  | 4390.5  | 2907.1  | 2031.8  | 1444.7  |
| 77.5° | 2172.6  | 2263.2  | 3835.7  | 9120.8  | 16914.8 | 11380.5 | 4086.3  | 2170.9  | 1858.8  | 1435.0  | 1054.8  |
| 80°   | 925.3   | 956.1   | 1477.0  | 3369.7  | 7964.1  | 4583.1  | 1882.9  | 1454.4  | 1286.1  | 1001.4  | 739.2   |
| 82.5° | 514.4   | 546.8   | 837.9   | 1528.7  | 3214.3  | 1562.7  | 1148.6  | 1012.7  | 846.1   | 603.4   | 480.5   |
| 85°   | 291.2   | 308.9   | 490.1   | 854.2   | 1362.1  | 627.6   | 687.6   | 673.0   | 477.2   | 310.6   | 236.2   |
| 87.5° | 137.5   | 148.8   | 236.2   | 396.3   | 533.9   | 245.9   | 349.4   | 385.1   | 299.2   | 189.3   | 123.0   |
| 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: P268795

CATALOG NUMBER: GAN-AF-08-LED-U-T4FT-7027-800

**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5084.4 | 5084.4 | 5084.4 | 5084.4 | 5084.4 | 5084.4 | 5084.4 | 5084.4 | 5084.4 | 5084.4 |
| 2.5°  | 5081.3 | 5110.4 | 5144.4 | 5162.1 | 5178.3 | 5197.8 | 5217.1 | 5217.1 | 5220.4 | 5221.9 |
| 5°    | 5045.6 | 5105.4 | 5158.8 | 5181.6 | 5186.4 | 5186.4 | 5181.6 | 5155.6 | 5133.1 | 5142.6 |
| 7.5°  | 4971.2 | 5058.5 | 5103.9 | 5095.7 | 5034.3 | 4963.1 | 4903.3 | 4830.5 | 4793.3 | 4786.8 |
| 10°   | 4864.4 | 4964.8 | 4972.8 | 4892.0 | 4739.8 | 4587.9 | 4461.6 | 4338.8 | 4280.5 | 4266.0 |
| 12.5° | 4746.4 | 4838.6 | 4786.8 | 4620.3 | 4376.0 | 4154.3 | 3994.1 | 3869.5 | 3814.6 | 3800.0 |
| 15°   | 4651.0 | 4714.0 | 4583.1 | 4320.8 | 4013.5 | 3779.0 | 3646.3 | 3554.1 | 3515.2 | 3504.0 |
| 17.5° | 4600.8 | 4613.8 | 4374.2 | 4020.1 | 3693.2 | 3497.6 | 3414.9 | 3371.2 | 3356.7 | 3348.6 |
| 20°   | 4625.1 | 4534.5 | 4175.3 | 3740.2 | 3431.2 | 3293.6 | 3274.2 | 3263.0 | 3259.7 | 3254.9 |
| 22.5° | 4746.4 | 4510.2 | 3992.4 | 3474.9 | 3201.5 | 3141.6 | 3157.8 | 3156.1 | 3153.0 | 3149.6 |
| 25°   | 4963.1 | 4531.2 | 3814.6 | 3222.5 | 3009.0 | 2995.9 | 3025.1 | 3025.1 | 3012.1 | 3012.1 |
| 27.5° | 5249.4 | 4574.9 | 3615.6 | 2983.0 | 2834.2 | 2835.9 | 2858.4 | 2851.9 | 2837.4 | 2827.8 |
| 30°   | 5598.9 | 4602.3 | 3382.7 | 2767.9 | 2670.8 | 2664.4 | 2670.8 | 2643.4 | 2599.7 | 2596.5 |
| 32.5° | 5956.4 | 4568.4 | 3112.4 | 2577.0 | 2497.7 | 2483.2 | 2478.3 | 2439.4 | 2389.3 | 2374.8 |
| 35°   | 6280.1 | 4443.8 | 2837.4 | 2425.0 | 2332.8 | 2300.4 | 2323.0 | 2310.1 | 2264.7 | 2253.5 |
| 37.5° | 6516.1 | 4212.5 | 2590.0 | 2290.7 | 2214.6 | 2206.5 | 2221.1 | 2226.0 | 2172.6 | 2161.2 |
| 40°   | 6674.6 | 3898.6 | 2378.1 | 2177.4 | 2192.0 | 2161.2 | 2112.8 | 2078.8 | 2062.6 | 2057.7 |
| 42.5° | 6802.4 | 3571.9 | 2200.0 | 2124.0 | 2196.8 | 2108.0 | 2002.7 | 1947.7 | 1976.8 | 1989.7 |
| 45°   | 6949.6 | 3253.2 | 2051.3 | 2057.7 | 2172.6 | 2046.3 | 1926.7 | 1873.3 | 1884.6 | 1887.9 |
| 47.5° | 7151.9 | 2865.0 | 1891.1 | 1950.9 | 2091.8 | 2004.4 | 1879.9 | 1803.7 | 1750.3 | 1726.2 |
| 50°   | 7431.8 | 2405.5 | 1724.4 | 1831.3 | 2012.5 | 1973.5 | 1807.0 | 1726.2 | 1627.4 | 1604.8 |
| 52.5° | 7625.9 | 1976.8 | 1586.9 | 1730.9 | 1941.2 | 1912.1 | 1748.7 | 1643.5 | 1540.1 | 1520.7 |
| 55°   | 7520.8 | 1642.0 | 1467.3 | 1619.4 | 1847.5 | 1836.0 | 1700.2 | 1559.5 | 1478.6 | 1462.4 |
| 57.5° | 6995.0 | 1430.0 | 1375.0 | 1514.2 | 1732.7 | 1771.4 | 1635.5 | 1488.3 | 1430.0 | 1418.8 |
| 60°   | 5992.1 | 1297.4 | 1316.8 | 1442.9 | 1638.8 | 1706.7 | 1570.7 | 1449.4 | 1410.7 | 1402.6 |
| 62.5° | 4649.3 | 1208.4 | 1273.2 | 1391.2 | 1565.9 | 1661.3 | 1535.3 | 1444.7 | 1430.0 | 1420.4 |
| 65°   | 3330.8 | 1137.3 | 1226.2 | 1339.5 | 1499.6 | 1619.4 | 1522.3 | 1438.1 | 1441.4 | 1433.2 |
| 67.5° | 2263.2 | 1074.2 | 1169.7 | 1281.3 | 1435.0 | 1582.2 | 1504.5 | 1415.5 | 1456.0 | 1446.2 |
| 70°   | 1583.7 | 1012.7 | 1103.3 | 1206.9 | 1354.0 | 1530.4 | 1472.1 | 1381.6 | 1378.3 | 1339.5 |
| 72.5° | 1236.0 | 931.8  | 1012.7 | 1103.3 | 1250.5 | 1457.6 | 1407.5 | 1305.4 | 1252.1 | 1211.6 |
| 73°   | 1179.4 | 912.4  | 990.0  | 1080.7 | 1227.9 | 1439.8 | 1389.6 | 1284.4 | 1224.6 | 1187.4 |
| 75°   | 975.5  | 828.2  | 899.5  | 980.3  | 1130.7 | 1355.6 | 1302.3 | 1189.0 | 1113.0 | 1090.4 |
| 77.5° | 766.9  | 708.6  | 776.6  | 849.3  | 996.5  | 1232.7 | 1172.8 | 1064.4 | 1022.5 | 1003.0 |
| 80°   | 567.8  | 587.2  | 647.0  | 711.7  | 863.9  | 1101.6 | 1048.3 | 939.8  | 1127.6 | 1080.7 |
| 82.5° | 399.6  | 444.9  | 499.8  | 558.0  | 724.8  | 973.9  | 909.2  | 797.5  | 825.1  | 685.9  |
| 85°   | 236.2  | 291.2  | 343.0  | 393.1  | 522.5  | 807.2  | 750.7  | 635.8  | 520.8  | 496.7  |
| 87.5° | 137.5  | 161.8  | 176.3  | 228.1  | 359.1  | 608.2  | 529.0  | 470.7  | 270.2  | 182.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)