

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: P298890

Luminaire Tested: **GAA-AF-06-LED-U-T2-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298890  
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: GAA-AF-06-LED-U-T2-7060  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34816.9 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 333  
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



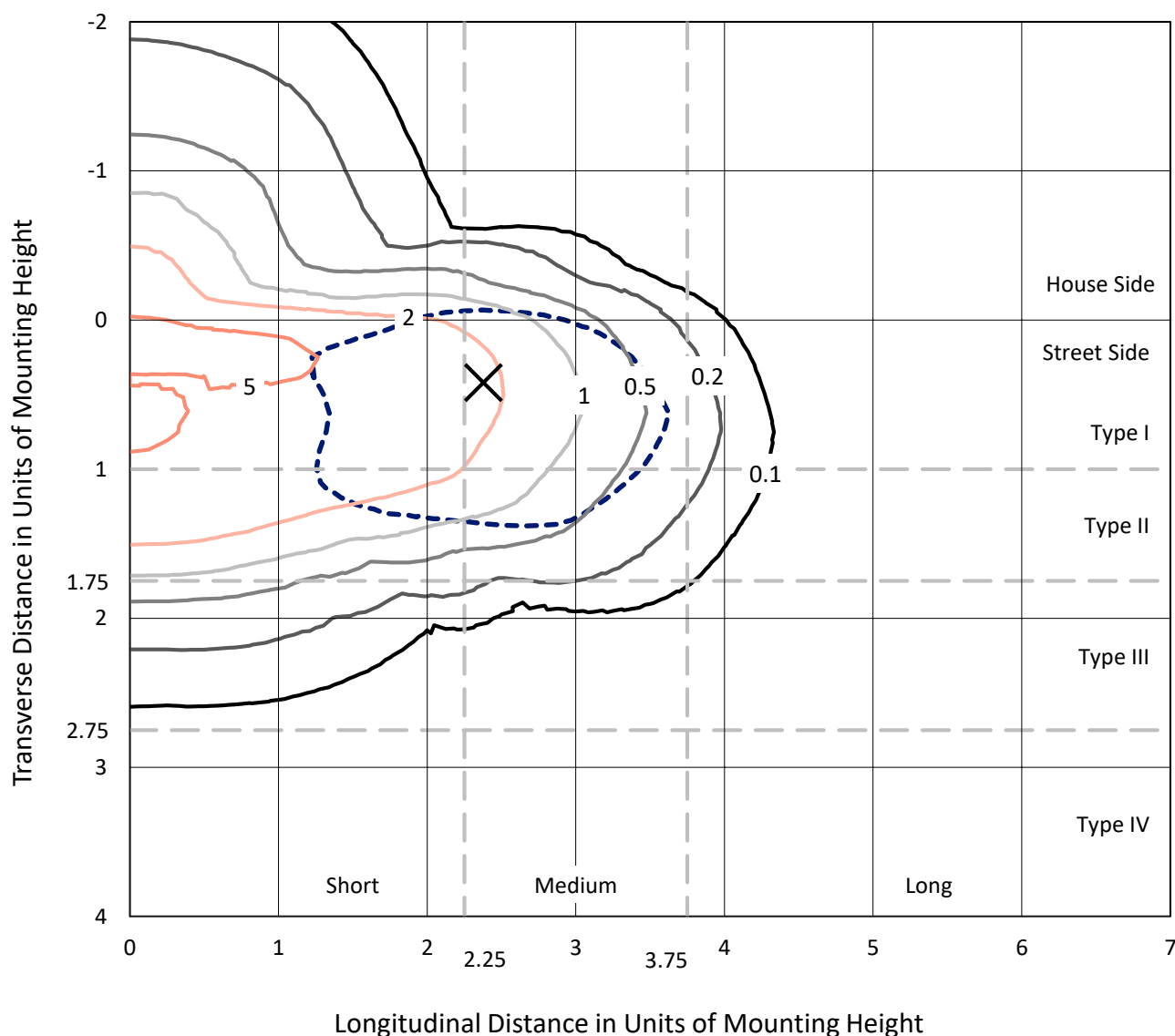
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CATALOG NUMBER: GAA-AF-06-LED-U-T2-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

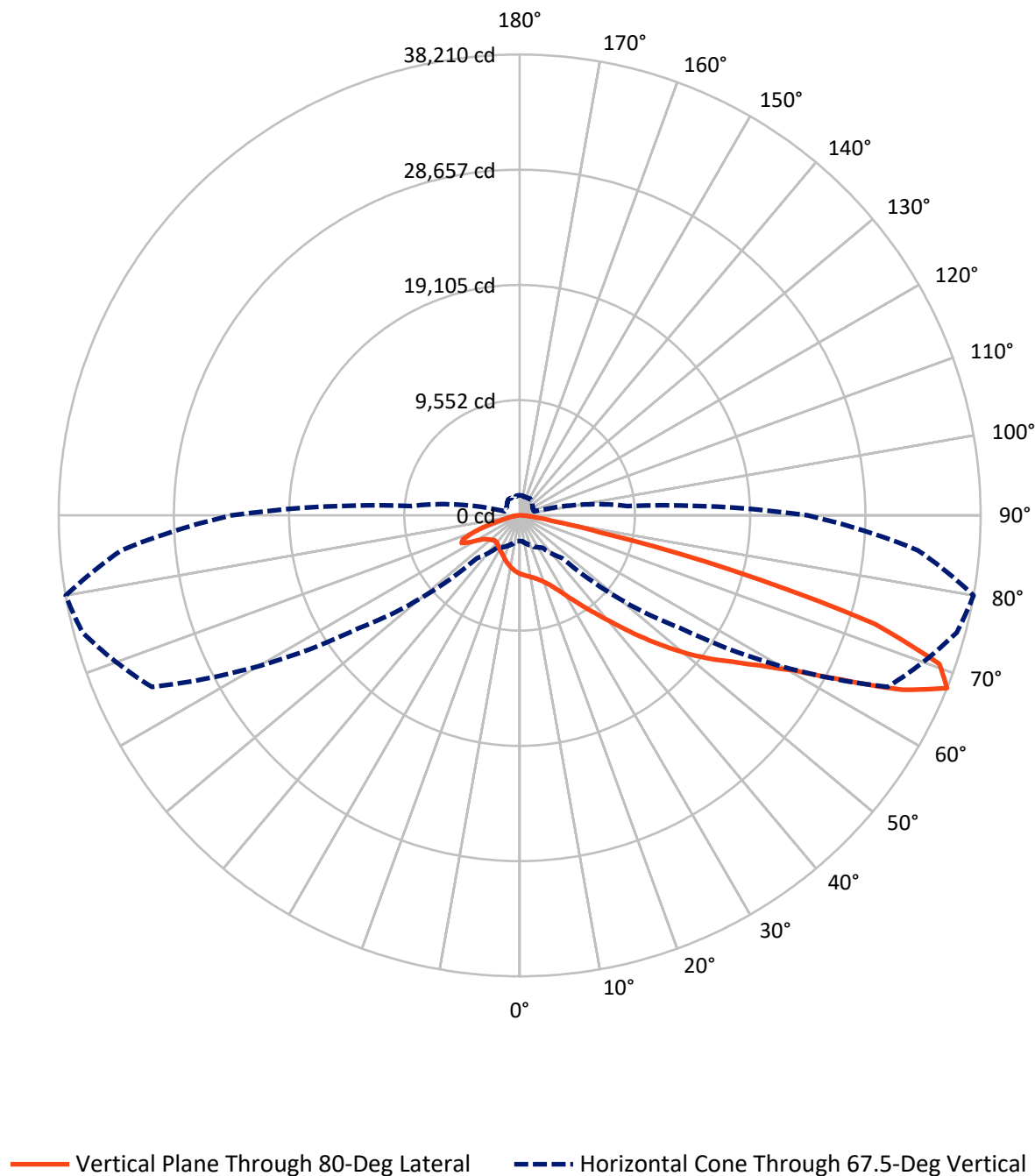


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P298890

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7060

## Luminous Intensity Polar Plot



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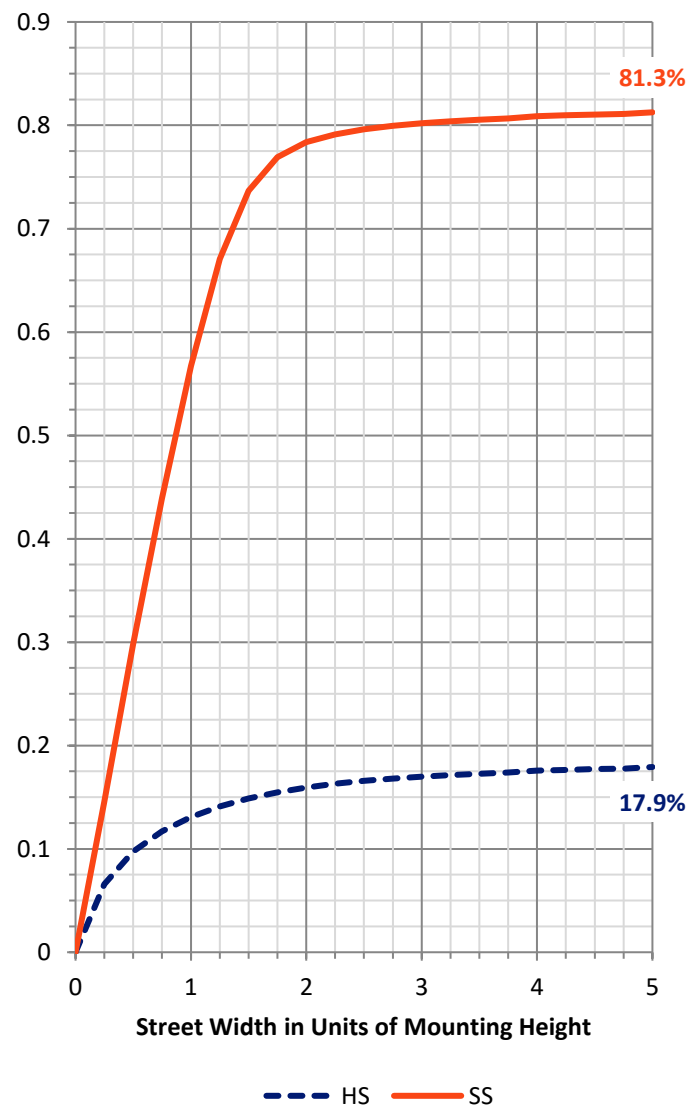
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6411.9   | 0.0    | 6411.9  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 28404.9  | 0.0    | 28404.9 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 34816.9  | 0.0    | 34816.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 446.2   | 1.3       |
| 10°-20°   | 1285.4  | 3.7       |
| 20°-30°   | 2127.6  | 6.1       |
| 30°-40°   | 3480.1  | 10.0      |
| 40°-50°   | 5619.0  | 16.1      |
| 50°-60°   | 8112.3  | 23.3      |
| 60°-70°   | 8952.4  | 25.7      |
| 70°-80°   | 4126.5  | 11.9      |
| 80°-90°   | 667.4   | 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°    | 34816.9 | 100.0     |
| 0°-180°   | 34816.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P298890

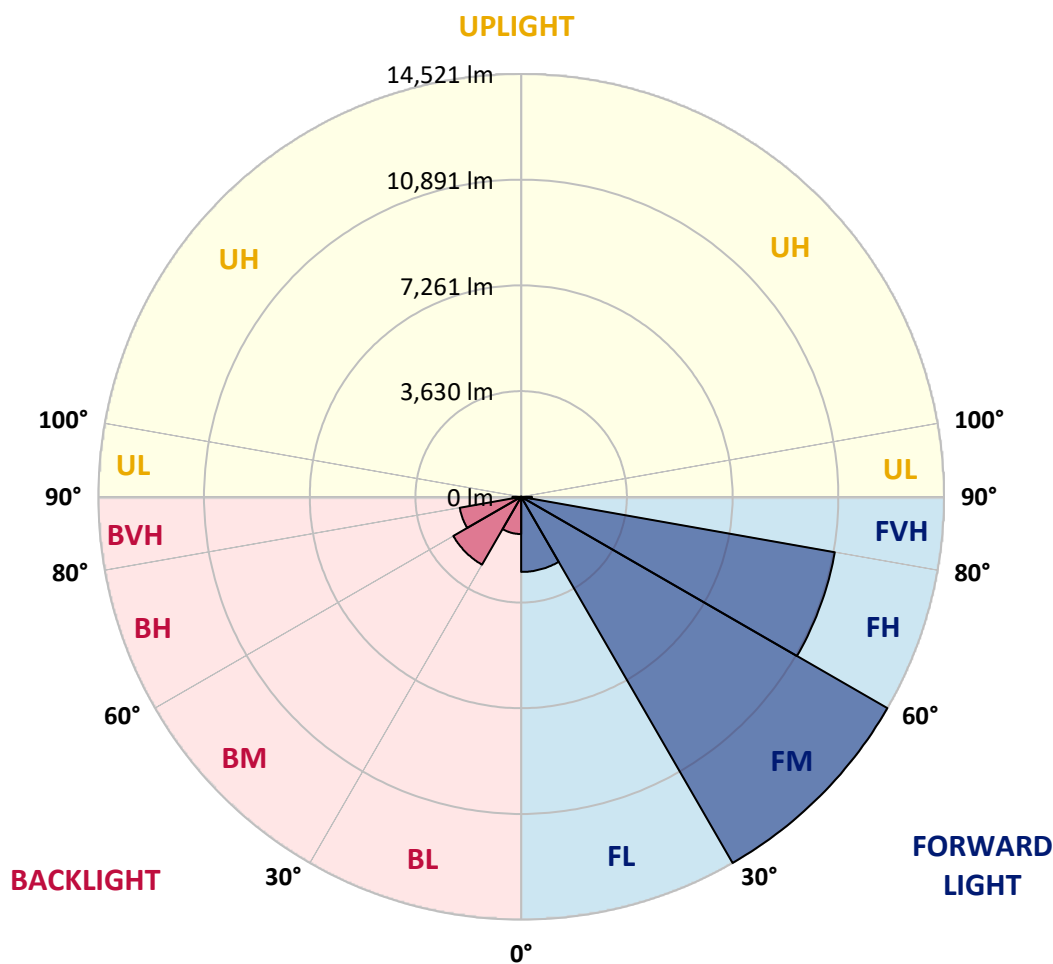
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2579.9  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 14521.2 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 10936.9 | 31.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 366.9   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1279.3  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2690.2  | 7.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2142.0  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 300.5   | 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-G4**

Type II Medium





REPORT NUMBER: P298890

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  | 4837.1  |
| 2.5°  | 5291.3  | 5260.5  | 5265.6  | 5257.0  | 5231.3  | 5186.7  | 5138.8  | 5051.3  | 4960.5  | 4912.5  | 4874.8  |
| 5°    | 5733.5  | 5725.0  | 5713.0  | 5685.5  | 5620.4  | 5527.8  | 5413.0  | 5258.7  | 5092.5  | 5005.1  | 4921.1  |
| 7.5°  | 6064.3  | 6059.2  | 6043.8  | 6026.6  | 5963.2  | 5851.8  | 5678.7  | 5459.3  | 5217.6  | 5097.6  | 4967.3  |
| 10°   | 6091.8  | 6100.3  | 6112.3  | 6158.6  | 6167.2  | 6107.2  | 5930.6  | 5665.0  | 5347.9  | 5193.6  | 5027.3  |
| 12.5° | 5858.7  | 5877.5  | 5923.8  | 6042.1  | 6167.2  | 6240.9  | 6150.0  | 5880.9  | 5500.4  | 5313.6  | 5102.8  |
| 15°   | 5550.1  | 5560.4  | 5617.0  | 5779.8  | 6004.4  | 6232.3  | 6318.0  | 6119.2  | 5697.5  | 5467.9  | 5215.9  |
| 17.5° | 5418.1  | 5423.3  | 5462.7  | 5570.7  | 5779.8  | 6105.5  | 6412.3  | 6378.0  | 5939.2  | 5659.8  | 5354.7  |
| 20°   | 5351.3  | 5363.3  | 5419.9  | 5526.1  | 5658.1  | 5942.6  | 6426.0  | 6657.4  | 6227.2  | 5899.8  | 5529.6  |
| 22.5° | 5541.6  | 5536.4  | 5557.0  | 5610.1  | 5721.5  | 5892.9  | 6415.7  | 6945.4  | 6594.0  | 6208.3  | 5757.5  |
| 25°   | 5985.5  | 6004.4  | 5968.4  | 5908.4  | 5944.4  | 6064.3  | 6470.6  | 7257.3  | 7053.4  | 6604.3  | 6055.8  |
| 27.5° | 6618.0  | 6599.1  | 6546.0  | 6405.4  | 6331.7  | 6383.2  | 6652.3  | 7593.3  | 7624.1  | 7125.3  | 6450.0  |
| 30°   | 7248.8  | 7233.3  | 7181.9  | 7010.5  | 6859.7  | 6816.8  | 7005.4  | 7979.0  | 8304.6  | 7751.0  | 6933.4  |
| 32.5° | 7903.5  | 7886.4  | 7838.4  | 7667.0  | 7485.3  | 7385.9  | 7507.6  | 8424.6  | 9106.8  | 8498.3  | 7502.4  |
| 35°   | 8710.9  | 8678.3  | 8577.2  | 8338.9  | 8160.6  | 8083.5  | 8140.1  | 8985.1  | 10032.4 | 9382.8  | 8193.2  |
| 37.5° | 9470.2  | 9519.9  | 9417.0  | 9087.9  | 8856.5  | 8829.1  | 8892.5  | 9669.0  | 11030.0 | 10371.8 | 8986.8  |
| 40°   | 10232.9 | 10241.5 | 10149.0 | 9879.8  | 9641.6  | 9597.0  | 9756.4  | 10498.6 | 12207.5 | 11554.5 | 9951.8  |
| 42.5° | 11021.4 | 11038.5 | 10882.6 | 10634.0 | 10459.2 | 10467.8 | 10649.5 | 11470.5 | 13558.2 | 12948.0 | 11062.5 |
| 45°   | 11955.6 | 11981.3 | 11809.9 | 11484.2 | 11324.8 | 11645.3 | 11569.9 | 12560.6 | 15039.2 | 14531.8 | 12337.8 |
| 47.5° | 12932.6 | 12972.0 | 12841.7 | 12536.6 | 12337.8 | 12778.3 | 12490.4 | 13769.0 | 16633.2 | 16230.4 | 13738.2 |
| 50°   | 13465.7 | 13522.2 | 13649.1 | 13626.8 | 13583.9 | 13510.2 | 13517.1 | 15064.9 | 18277.0 | 17999.3 | 15178.0 |
| 52.5° | 13179.4 | 13177.7 | 13640.5 | 14202.7 | 14802.6 | 14847.2 | 14768.3 | 16431.0 | 19812.8 | 19728.8 | 16533.8 |
| 55°   | 11869.9 | 11959.0 | 12660.0 | 13748.5 | 15387.1 | 16410.4 | 16643.5 | 17995.9 | 21321.2 | 21418.9 | 17910.2 |
| 57.5° | 9689.6  | 9763.3  | 10709.4 | 12226.4 | 14598.7 | 17339.4 | 19310.6 | 20270.5 | 23007.8 | 23463.8 | 19742.5 |
| 60°   | 6571.7  | 6660.8  | 7663.6  | 9485.6  | 12476.6 | 16821.8 | 21849.1 | 24329.4 | 25027.0 | 26064.0 | 22313.6 |
| 62.5° | 3861.8  | 3942.3  | 4759.9  | 5983.8  | 8784.6  | 14417.0 | 22963.3 | 30104.0 | 28234.0 | 29987.5 | 26235.4 |
| 65°   | 2658.5  | 2713.4  | 3111.0  | 3724.7  | 5047.9  | 9710.2  | 21581.7 | 34090.9 | 33168.8 | 34848.6 | 30782.8 |
| 67.5° | 2139.1  | 2132.3  | 2447.7  | 2865.9  | 3249.9  | 5006.8  | 16319.6 | 33640.1 | 37508.8 | 38209.8 | 33143.1 |
| 70°   | 1762.1  | 1755.2  | 1969.5  | 2315.7  | 2596.8  | 2819.6  | 8889.1  | 28388.3 | 36624.3 | 36908.9 | 30969.6 |
| 72.5° | 1474.1  | 1480.9  | 1618.1  | 1875.2  | 2130.6  | 2123.7  | 3906.3  | 19970.5 | 28811.6 | 30779.4 | 24687.6 |
| 75°   | 1244.4  | 1247.8  | 1338.7  | 1520.4  | 1729.5  | 1710.6  | 2118.6  | 10819.1 | 16748.1 | 18117.6 | 13685.1 |
| 77.5° | 1059.3  | 1062.7  | 1121.0  | 1222.1  | 1371.2  | 1364.4  | 1546.1  | 4674.2  | 6986.5  | 6900.8  | 4681.1  |
| 80°   | 944.4   | 944.4   | 971.9   | 990.7   | 1073.0  | 1042.1  | 1146.7  | 2245.4  | 2953.3  | 2727.1  | 1868.3  |
| 82.5° | 740.5   | 743.9   | 911.9   | 905.0   | 845.0   | 805.6   | 805.6   | 1323.3  | 1564.9  | 1446.7  | 1093.6  |
| 85°   | 416.5   | 414.8   | 587.9   | 709.6   | 743.9   | 567.4   | 562.2   | 740.5   | 851.9   | 750.8   | 529.6   |
| 87.5° | 178.3   | 181.7   | 272.5   | 315.4   | 421.7   | 353.1   | 348.0   | 382.2   | 433.7   | 375.4   | 245.1   |
| 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: P298890

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4837.1  | 4837.1 | 4837.1 | 4837.1 | 4837.1 | 4837.1 | 4837.1 | 4837.1 | 4837.1 | 4837.1 | 4837.1 |
| 2.5°  | 4838.8  | 4794.2 | 4696.5 | 4574.8 | 4465.1 | 4393.1 | 4328.0 | 4233.7 | 4238.9 | 4173.7 | 4125.7 |
| 5°    | 4835.4  | 4742.8 | 4516.5 | 4247.4 | 3988.6 | 3801.8 | 3661.2 | 3534.4 | 3503.5 | 3443.5 | 3407.6 |
| 7.5°  | 4838.8  | 4688.0 | 4307.4 | 3877.2 | 3556.7 | 3320.1 | 3200.2 | 3133.3 | 3117.9 | 3097.3 | 3099.0 |
| 10°   | 4850.8  | 4638.2 | 4077.7 | 3531.0 | 3195.0 | 3039.0 | 3009.9 | 3030.5 | 3054.5 | 3061.3 | 3063.0 |
| 12.5° | 4878.2  | 4593.7 | 3825.8 | 3222.4 | 2968.8 | 2920.8 | 2970.5 | 3040.7 | 3087.0 | 3109.3 | 3107.6 |
| 15°   | 4939.9  | 4559.4 | 3584.1 | 2980.8 | 2843.6 | 2869.3 | 2961.9 | 3061.3 | 3128.2 | 3159.0 | 3160.7 |
| 17.5° | 5006.8  | 4509.7 | 3335.6 | 2795.6 | 2751.1 | 2816.2 | 2931.0 | 3047.6 | 3129.9 | 3164.2 | 3171.0 |
| 20°   | 5094.2  | 4448.0 | 3075.0 | 2656.8 | 2663.6 | 2737.4 | 2845.3 | 2961.9 | 3052.7 | 3081.9 | 3095.6 |
| 22.5° | 5209.0  | 4381.1 | 2847.1 | 2543.7 | 2564.2 | 2620.8 | 2704.8 | 2805.9 | 2884.8 | 2898.5 | 2910.5 |
| 25°   | 5363.3  | 4309.1 | 2665.4 | 2440.8 | 2449.4 | 2482.0 | 2538.5 | 2598.5 | 2653.4 | 2637.9 | 2649.9 |
| 27.5° | 5570.7  | 4247.4 | 2530.0 | 2346.5 | 2331.1 | 2338.0 | 2367.1 | 2386.0 | 2415.1 | 2372.3 | 2377.4 |
| 30°   | 5814.1  | 4180.6 | 2425.4 | 2264.3 | 2221.4 | 2209.4 | 2216.3 | 2226.6 | 2248.8 | 2190.6 | 2182.0 |
| 32.5° | 6096.9  | 4100.0 | 2327.7 | 2192.3 | 2132.3 | 2108.3 | 2111.7 | 2139.1 | 2224.9 | 2188.9 | 2170.0 |
| 35°   | 6426.0  | 4009.2 | 2224.9 | 2113.4 | 2072.3 | 2038.0 | 2034.6 | 2120.3 | 2375.7 | 2353.4 | 2336.3 |
| 37.5° | 6811.7  | 3918.3 | 2122.0 | 2024.3 | 2027.7 | 1990.0 | 1978.0 | 2075.7 | 2404.8 | 2317.4 | 2305.4 |
| 40°   | 7301.9  | 3870.3 | 2034.6 | 1930.0 | 1972.9 | 1967.7 | 1943.7 | 1993.5 | 2212.9 | 2053.4 | 2032.9 |
| 42.5° | 7908.7  | 3877.2 | 1969.5 | 1828.9 | 1907.7 | 1962.6 | 1924.9 | 1926.6 | 2005.5 | 1885.5 | 1866.6 |
| 45°   | 8657.7  | 3957.8 | 1923.2 | 1748.3 | 1834.0 | 1957.5 | 1918.0 | 1890.6 | 1897.5 | 1834.0 | 1823.8 |
| 47.5° | 9531.9  | 4124.0 | 1890.6 | 1681.5 | 1763.8 | 1938.6 | 1916.3 | 1880.3 | 1864.9 | 1830.6 | 1822.0 |
| 50°   | 10503.8 | 4365.7 | 1866.6 | 1618.1 | 1700.3 | 1907.7 | 1918.0 | 1870.0 | 1852.9 | 1839.2 | 1834.0 |
| 52.5° | 11458.5 | 4641.7 | 1830.6 | 1563.2 | 1650.6 | 1870.0 | 1923.2 | 1859.8 | 1840.9 | 1830.6 | 1825.5 |
| 55°   | 12522.9 | 4986.2 | 1775.8 | 1516.9 | 1609.5 | 1822.0 | 1923.2 | 1844.3 | 1823.8 | 1825.5 | 1823.8 |
| 57.5° | 13961.0 | 5543.3 | 1710.6 | 1477.5 | 1559.8 | 1763.8 | 1890.6 | 1827.2 | 1801.5 | 1803.2 | 1804.9 |
| 60°   | 16208.2 | 6525.4 | 1631.8 | 1438.1 | 1498.1 | 1695.2 | 1846.0 | 1789.5 | 1763.8 | 1770.6 | 1772.3 |
| 62.5° | 19512.9 | 7967.0 | 1528.9 | 1379.8 | 1433.0 | 1621.5 | 1784.3 | 1741.5 | 1715.8 | 1732.9 | 1732.9 |
| 65°   | 22947.8 | 9238.8 | 1402.1 | 1306.1 | 1364.4 | 1540.9 | 1707.2 | 1681.5 | 1655.8 | 1695.2 | 1693.5 |
| 67.5° | 23871.7 | 8954.3 | 1275.3 | 1225.6 | 1295.8 | 1451.8 | 1614.6 | 1600.9 | 1587.2 | 1655.8 | 1652.4 |
| 70°   | 21206.4 | 7188.8 | 1158.7 | 1143.3 | 1220.4 | 1355.8 | 1515.2 | 1515.2 | 1506.7 | 1558.1 | 1546.1 |
| 72.5° | 16156.7 | 5097.6 | 1047.3 | 1055.9 | 1134.7 | 1251.3 | 1407.2 | 1419.2 | 1405.5 | 1431.2 | 1421.0 |
| 75°   | 8649.1  | 2917.3 | 935.9  | 959.9  | 1028.4 | 1145.0 | 1287.3 | 1299.3 | 1290.7 | 1289.0 | 1294.1 |
| 77.5° | 2874.5  | 1426.1 | 819.3  | 857.0  | 917.0  | 1035.3 | 1162.1 | 1181.0 | 1160.4 | 1157.0 | 1155.3 |
| 80°   | 1280.4  | 896.5  | 690.8  | 740.5  | 793.6  | 910.2  | 1030.2 | 1045.6 | 1023.3 | 1054.1 | 1014.7 |
| 82.5° | 822.7   | 589.6  | 553.6  | 608.5  | 659.9  | 785.0  | 898.2  | 901.6  | 881.0  | 1023.3 | 872.5  |
| 85°   | 399.4   | 365.1  | 416.5  | 466.2  | 510.8  | 617.1  | 743.9  | 745.6  | 694.2  | 632.5  | 610.2  |
| 87.5° | 198.8   | 212.5  | 277.7  | 322.2  | 344.5  | 423.4  | 541.6  | 531.4  | 509.1  | 462.8  | 426.8  |
| 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)