

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: P298889

Luminaire Tested: **GAA-AF-06-LED-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298889
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-T2-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K 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

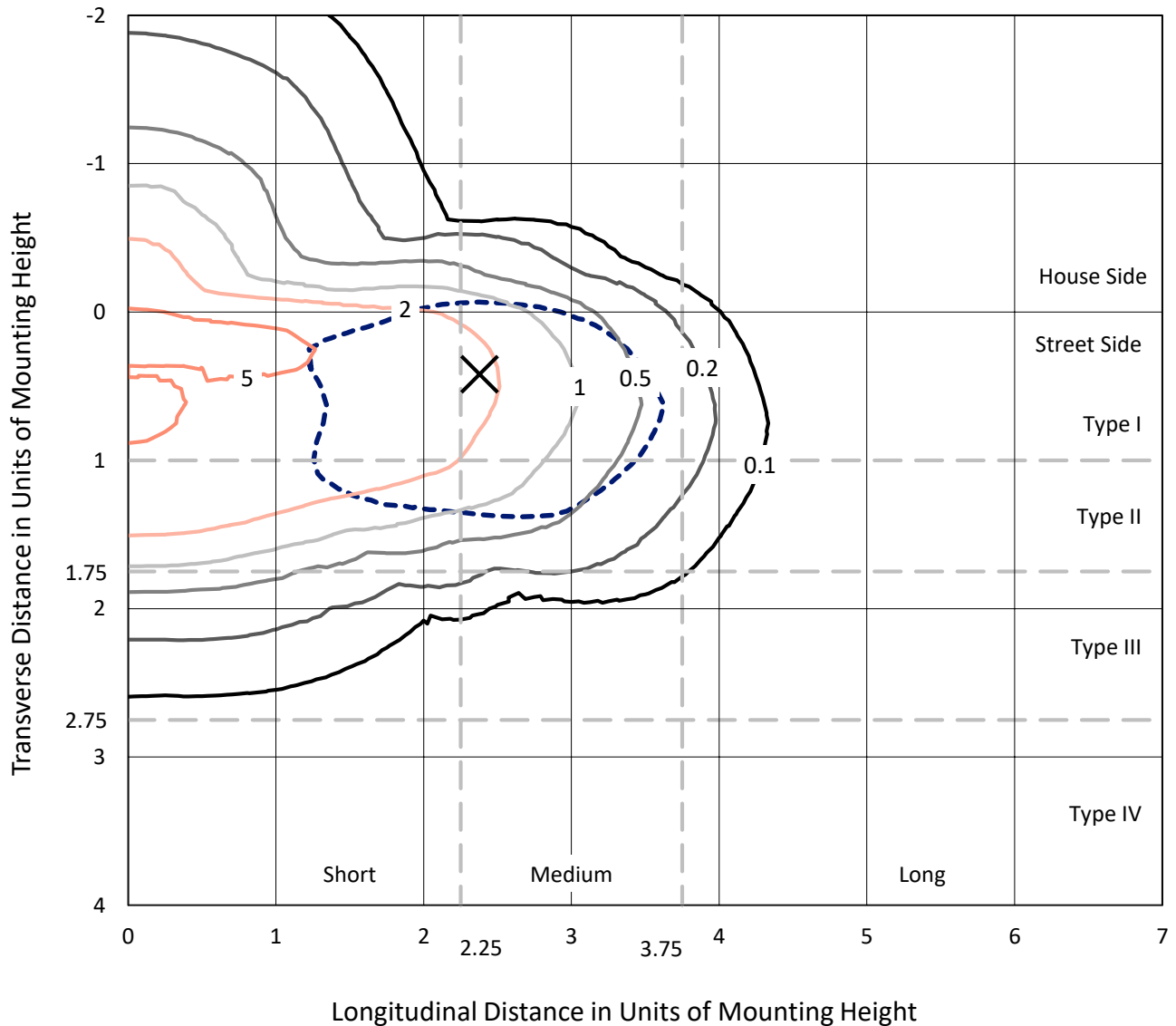


REPORT NUMBER: P298889

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

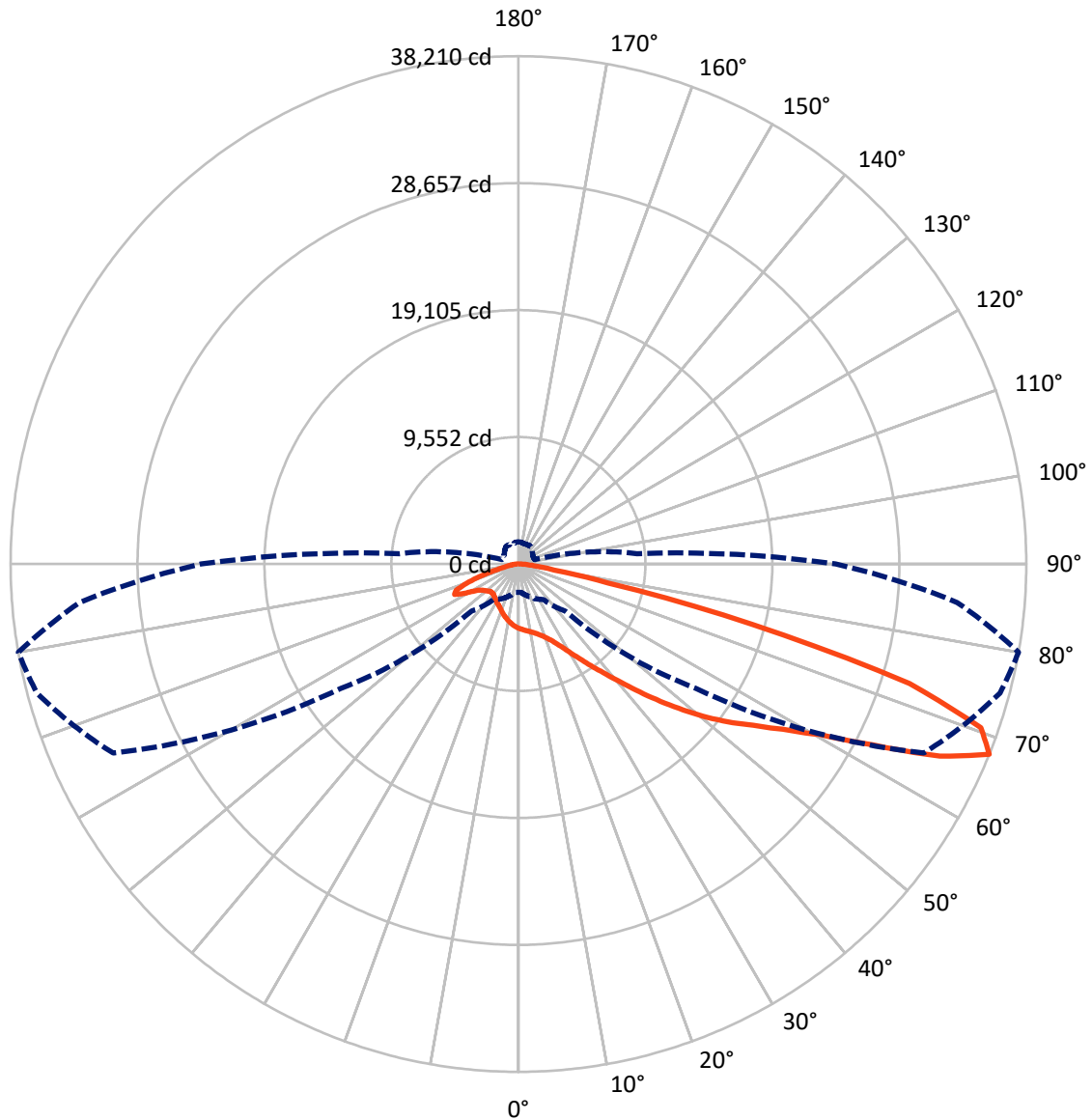


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P298889

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P298889

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7050

FLUX DISTRIBUTION:

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

Coefficient of Utilization

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 |



REPORT NUMBER: P298889

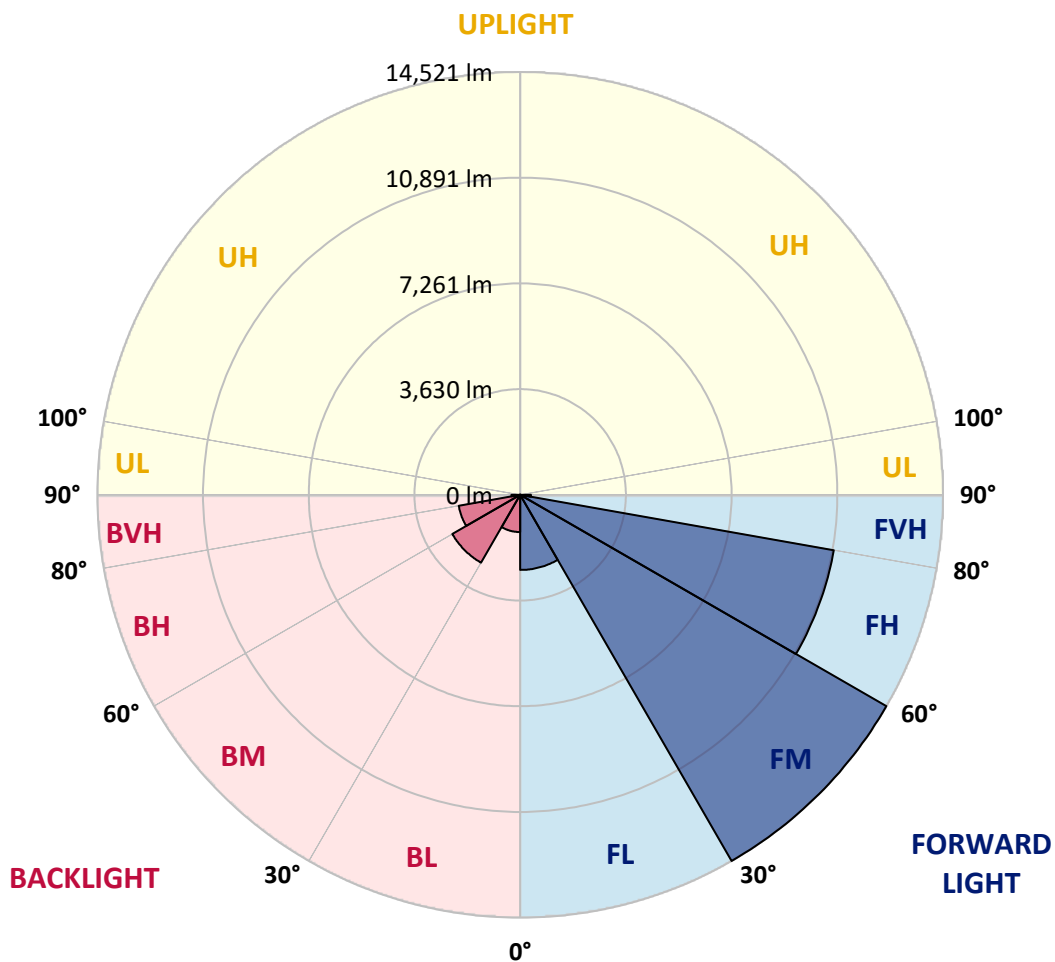
CATALOG NUMBER: GAA-AF-06-LED-U-T2-7050

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: P298889

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7050

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: P298889

CATALOG NUMBER: GAA-AF-06-LED-U-T2-7050

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)