

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: P298914

Luminaire Tested: **GAA-AF-10-LED-U-T2-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P298914  
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-10-LED-U-T2-7060  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 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: 57618.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 558  
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



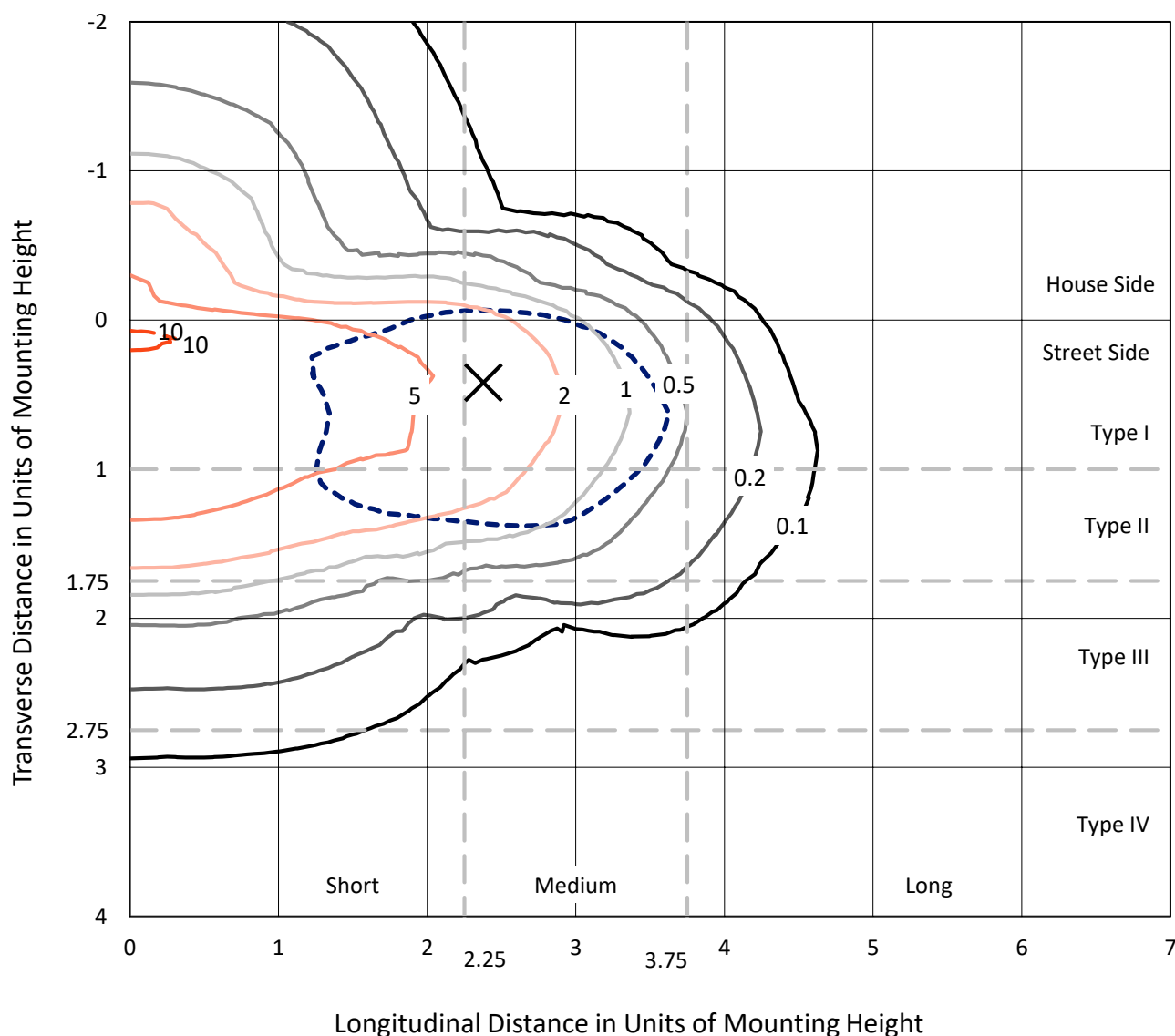
REPORT NUMBER: P298914

CATALOG NUMBER: GAA-AF-10-LED-U-T2-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

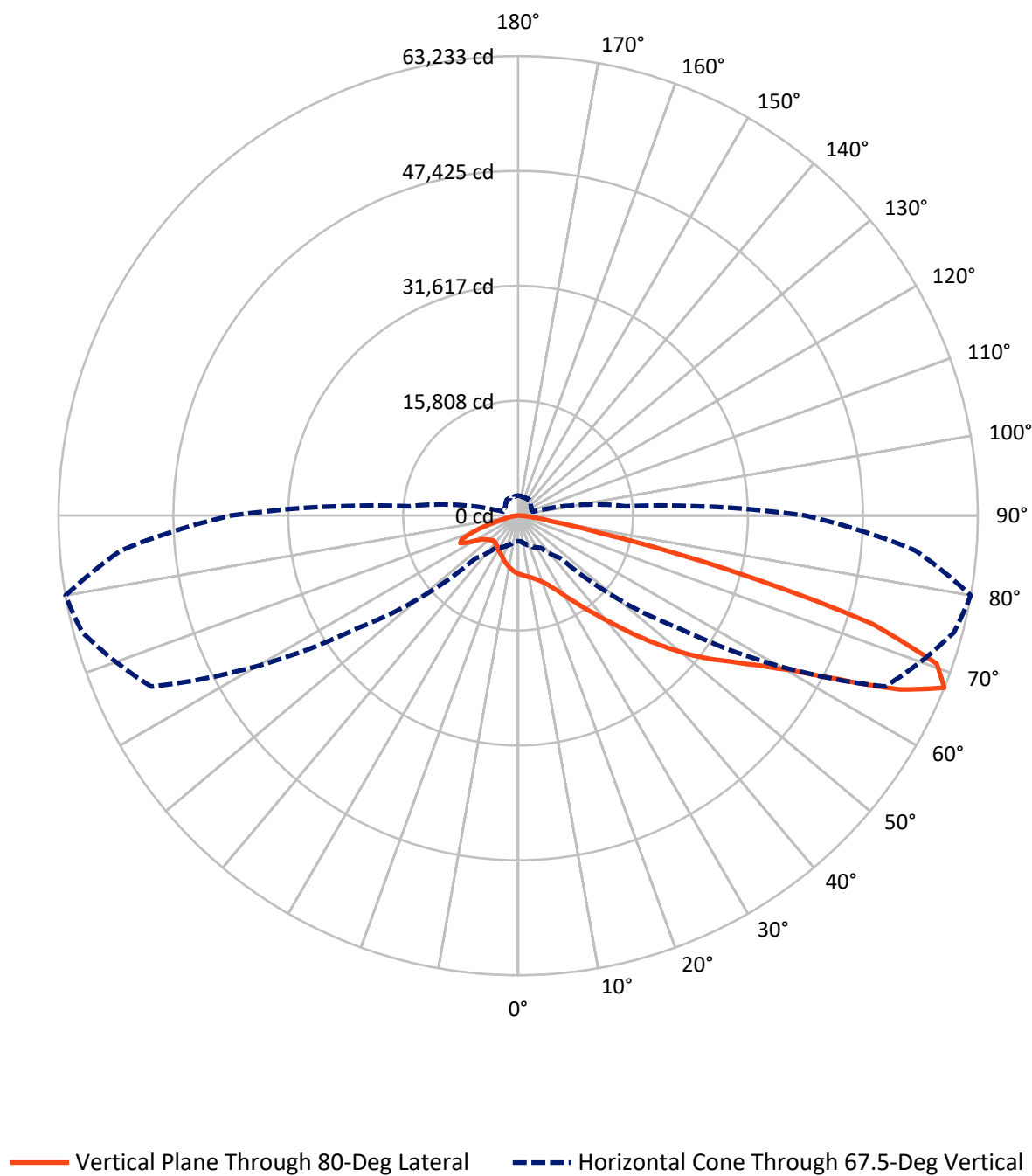


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P298914

CATALOG NUMBER: GAA-AF-10-LED-U-T2-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P298914

CATALOG NUMBER: GAA-AF-10-LED-U-T2-7060

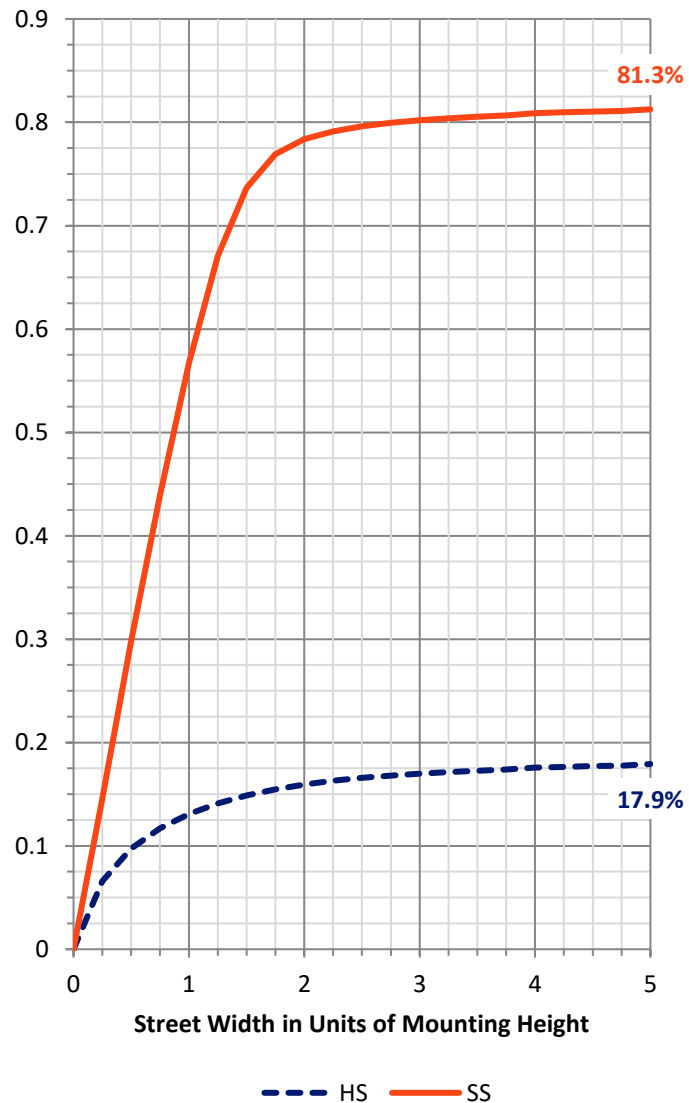
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10611.1  | 0.0    | 10611.1 |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 47007.1  | 0.0    | 47007.1 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 57618.2  | 0.0    | 57618.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 738.4   | 1.3       |
| 10°-20°   | 2127.1  | 3.7       |
| 20°-30°   | 3520.9  | 6.1       |
| 30°-40°   | 5759.3  | 10.0      |
| 40°-50°   | 9298.9  | 16.1      |
| 50°-60°   | 13424.9 | 23.3      |
| 60°-70°   | 14815.2 | 25.7      |
| 70°-80°   | 6828.9  | 11.9      |
| 80°-90°   | 1104.5  | 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°    | 57618.2 | 100.0     |
| 0°-180°   | 57618.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P298914

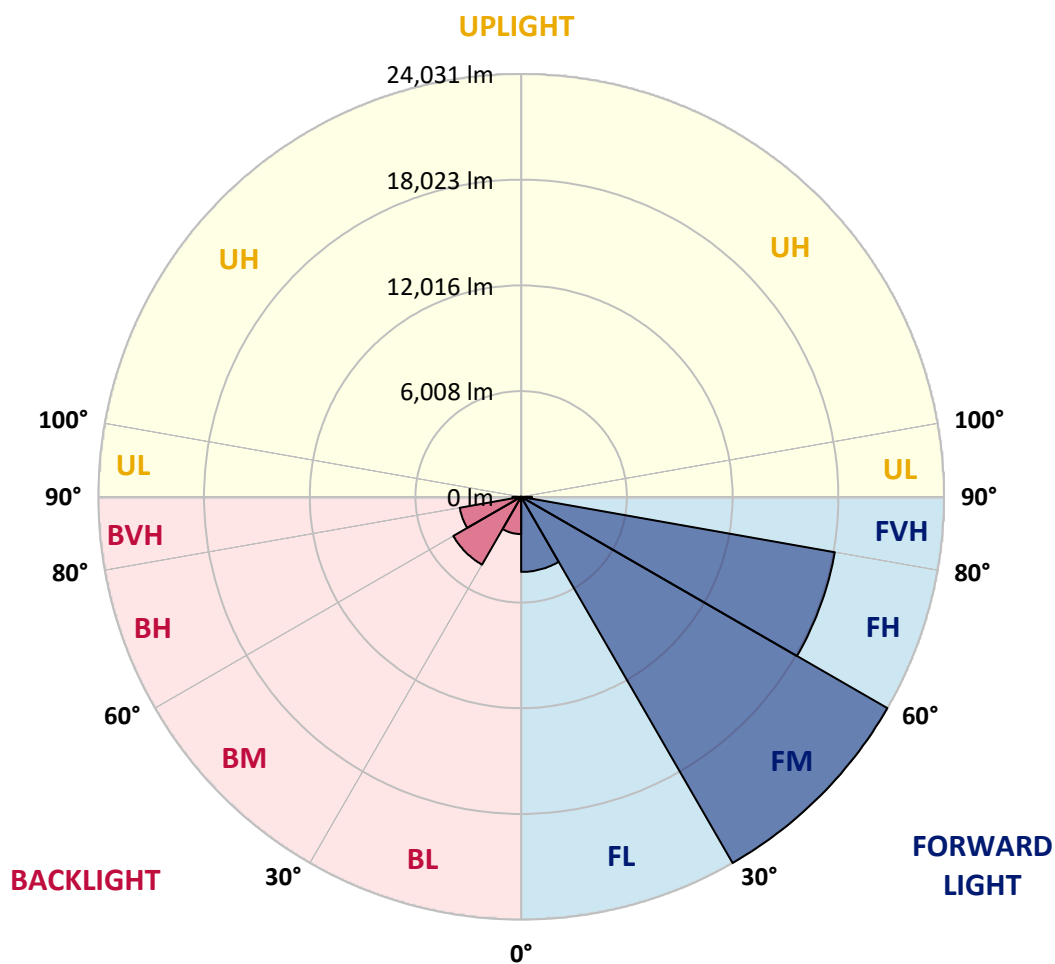
CATALOG NUMBER: GAA-AF-10-LED-U-T2-7060

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4269.4  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 24031.1 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 18099.4 | 31.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 607.3   | 1.1       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2117.1  | 3.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4452.0  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3544.7  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 497.3   | 0.9       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium





REPORT NUMBER: P298914

CATALOG NUMBER: GAA-AF-10-LED-U-T2-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  | 8004.8  |
| 2.5°  | 8756.5  | 8705.5  | 8714.0  | 8699.8  | 8657.3  | 8583.5  | 8504.1  | 8359.4  | 8209.1  | 8129.7  | 8067.3  |
| 5°    | 9488.4  | 9474.2  | 9454.3  | 9409.0  | 9301.2  | 9148.0  | 8957.9  | 8702.6  | 8427.5  | 8282.8  | 8143.8  |
| 7.5°  | 10035.8 | 10027.3 | 10001.8 | 9973.4  | 9868.5  | 9684.1  | 9397.6  | 9034.5  | 8634.6  | 8436.0  | 8220.4  |
| 10°   | 10081.2 | 10095.4 | 10115.3 | 10191.9 | 10206.0 | 10106.8 | 9814.6  | 9374.9  | 8850.2  | 8594.9  | 8319.7  |
| 12.5° | 9695.5  | 9726.7  | 9803.2  | 9999.0  | 10206.0 | 10328.0 | 10177.7 | 9732.3  | 9102.6  | 8793.4  | 8444.5  |
| 15°   | 9184.9  | 9201.9  | 9295.5  | 9565.0  | 9936.6  | 10313.8 | 10455.7 | 10126.6 | 9428.8  | 9048.7  | 8631.7  |
| 17.5° | 8966.5  | 8975.0  | 9040.2  | 9218.9  | 9565.0  | 10103.9 | 10611.7 | 10554.9 | 9828.8  | 9366.4  | 8861.5  |
| 20°   | 8855.8  | 8875.7  | 8969.3  | 9145.2  | 9363.6  | 9834.4  | 10634.4 | 11017.3 | 10305.3 | 9763.5  | 9150.8  |
| 22.5° | 9170.7  | 9162.2  | 9196.2  | 9284.1  | 9468.5  | 9752.2  | 10617.3 | 11493.8 | 10912.3 | 10274.1 | 9528.1  |
| 25°   | 9905.4  | 9936.6  | 9877.0  | 9777.7  | 9837.3  | 10035.8 | 10708.1 | 12010.1 | 11672.6 | 10929.4 | 10021.7 |
| 27.5° | 10952.1 | 10920.9 | 10832.9 | 10600.3 | 10478.4 | 10563.4 | 11008.8 | 12566.1 | 12617.1 | 11791.7 | 10674.1 |
| 30°   | 11995.9 | 11970.4 | 11885.3 | 11601.6 | 11352.0 | 11281.1 | 11593.1 | 13204.3 | 13743.3 | 12827.0 | 11474.0 |
| 32.5° | 13079.5 | 13051.1 | 12971.7 | 12688.1 | 12387.4 | 12222.9 | 12424.2 | 13941.8 | 15070.8 | 14063.8 | 12415.7 |
| 35°   | 14415.5 | 14361.6 | 14194.3 | 13800.0 | 13505.0 | 13377.3 | 13470.9 | 14869.4 | 16602.5 | 15527.5 | 13558.9 |
| 37.5° | 15672.1 | 15754.4 | 15584.2 | 15039.6 | 14656.6 | 14611.3 | 14716.2 | 16001.2 | 18253.4 | 17164.2 | 14872.2 |
| 40°   | 16934.4 | 16948.6 | 16795.4 | 16350.1 | 15955.8 | 15882.0 | 16145.9 | 17374.1 | 20202.2 | 19121.4 | 16469.2 |
| 42.5° | 18239.3 | 18267.6 | 18009.5 | 17598.2 | 17308.9 | 17323.0 | 17623.7 | 18982.4 | 22437.4 | 21427.6 | 18307.3 |
| 45°   | 19785.2 | 19827.7 | 19544.1 | 19005.1 | 18741.3 | 19271.8 | 19147.0 | 20786.5 | 24888.2 | 24048.6 | 20417.8 |
| 47.5° | 21402.0 | 21467.3 | 21251.7 | 20746.8 | 20417.8 | 21146.8 | 20670.2 | 22786.3 | 27526.2 | 26859.6 | 22735.2 |
| 50°   | 22284.2 | 22377.8 | 22587.7 | 22550.9 | 22479.9 | 22358.0 | 22369.3 | 24930.8 | 30246.5 | 29787.0 | 25118.0 |
| 52.5° | 21810.5 | 21807.7 | 22573.6 | 23504.0 | 24496.8 | 24570.5 | 24440.0 | 27191.5 | 32788.1 | 32649.1 | 27361.7 |
| 55°   | 19643.4 | 19790.9 | 20951.0 | 22752.3 | 25464.0 | 27157.5 | 27543.3 | 29781.3 | 35284.3 | 35446.0 | 29639.5 |
| 57.5° | 16035.2 | 16157.2 | 17723.0 | 20233.4 | 24159.2 | 28694.9 | 31957.0 | 33545.5 | 38075.5 | 38830.0 | 32671.8 |
| 60°   | 10875.5 | 11023.0 | 12682.4 | 15697.7 | 20647.5 | 27838.3 | 36158.0 | 40262.5 | 41417.0 | 43133.1 | 36926.7 |
| 62.5° | 6390.8  | 6524.1  | 7877.2  | 9902.5  | 14537.5 | 23858.5 | 38001.8 | 49819.0 | 46724.3 | 49626.1 | 43416.8 |
| 65°   | 4399.5  | 4490.3  | 5148.4  | 6163.9  | 8353.7  | 16069.3 | 35715.5 | 56416.9 | 54890.8 | 57670.6 | 50942.3 |
| 67.5° | 3540.1  | 3528.7  | 4050.6  | 4742.8  | 5378.2  | 8285.7  | 27007.1 | 55670.8 | 62073.0 | 63233.2 | 54848.2 |
| 70°   | 2916.0  | 2904.7  | 3259.2  | 3832.2  | 4297.4  | 4666.2  | 14710.5 | 46979.5 | 60609.3 | 61080.2 | 51251.4 |
| 72.5° | 2439.5  | 2450.8  | 2677.7  | 3103.2  | 3525.9  | 3514.5  | 6464.6  | 33049.1 | 47680.2 | 50936.6 | 40855.4 |
| 75°   | 2059.4  | 2065.0  | 2215.4  | 2516.1  | 2862.1  | 2830.9  | 3506.0  | 17904.5 | 27716.3 | 29982.7 | 22647.3 |
| 77.5° | 1753.0  | 1758.7  | 1855.1  | 2022.5  | 2269.3  | 2257.9  | 2558.6  | 7735.4  | 11561.9 | 11420.1 | 7746.7  |
| 80°   | 1563.0  | 1563.0  | 1608.3  | 1639.5  | 1775.7  | 1724.6  | 1897.7  | 3715.9  | 4887.4  | 4513.0  | 3091.9  |
| 82.5° | 1225.4  | 1231.1  | 1509.1  | 1497.7  | 1398.4  | 1333.2  | 1333.2  | 2189.8  | 2589.8  | 2394.1  | 1809.7  |
| 85°   | 689.3   | 686.5   | 972.9   | 1174.3  | 1231.1  | 938.9   | 930.4   | 1225.4  | 1409.8  | 1242.4  | 876.5   |
| 87.5° | 295.0   | 300.7   | 451.0   | 521.9   | 697.8   | 584.3   | 575.8   | 632.6   | 717.7   | 621.2   | 405.6   |
| 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: P298914

CATALOG NUMBER: GAA-AF-10-LED-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8004.8  | 8004.8  | 8004.8 | 8004.8 | 8004.8 | 8004.8 | 8004.8 | 8004.8 | 8004.8 | 8004.8 | 8004.8 |
| 2.5°  | 8007.7  | 7933.9  | 7772.2 | 7570.8 | 7389.3 | 7270.2 | 7162.4 | 7006.4 | 7014.9 | 6907.1 | 6827.7 |
| 5°    | 8002.0  | 7848.8  | 7474.4 | 7029.1 | 6600.7 | 6291.5 | 6058.9 | 5849.0 | 5798.0 | 5698.7 | 5639.1 |
| 7.5°  | 8007.7  | 7758.1  | 7128.3 | 6416.4 | 5885.9 | 5494.5 | 5295.9 | 5185.3 | 5159.8 | 5125.7 | 5128.5 |
| 10°   | 8027.5  | 7675.8  | 6748.2 | 5843.4 | 5287.4 | 5029.3 | 4981.0 | 5015.1 | 5054.8 | 5066.1 | 5069.0 |
| 12.5° | 8072.9  | 7602.1  | 6331.3 | 5332.8 | 4913.0 | 4833.5 | 4915.8 | 5032.1 | 5108.7 | 5145.6 | 5142.7 |
| 15°   | 8175.0  | 7545.3  | 5931.3 | 4932.8 | 4705.9 | 4748.4 | 4901.6 | 5066.1 | 5176.8 | 5227.8 | 5230.7 |
| 17.5° | 8285.7  | 7463.1  | 5520.0 | 4626.5 | 4552.7 | 4660.5 | 4850.6 | 5043.5 | 5179.6 | 5236.3 | 5247.7 |
| 20°   | 8430.3  | 7360.9  | 5088.8 | 4396.7 | 4408.1 | 4530.0 | 4708.7 | 4901.6 | 5052.0 | 5100.2 | 5122.9 |
| 22.5° | 8620.4  | 7250.3  | 4711.6 | 4209.5 | 4243.5 | 4337.1 | 4476.1 | 4643.5 | 4774.0 | 4796.7 | 4816.5 |
| 25°   | 8875.7  | 7131.2  | 4410.9 | 4039.3 | 4053.5 | 4107.4 | 4201.0 | 4300.3 | 4391.0 | 4365.5 | 4385.4 |
| 27.5° | 9218.9  | 7029.1  | 4186.8 | 3883.3 | 3857.8 | 3869.1 | 3917.3 | 3948.5 | 3996.8 | 3925.8 | 3934.3 |
| 30°   | 9621.7  | 6918.4  | 4013.8 | 3747.1 | 3676.2 | 3656.4 | 3667.7 | 3684.7 | 3721.6 | 3625.2 | 3611.0 |
| 32.5° | 10089.7 | 6785.1  | 3852.1 | 3628.0 | 3528.7 | 3489.0 | 3494.7 | 3540.1 | 3681.9 | 3622.3 | 3591.1 |
| 35°   | 10634.4 | 6634.8  | 3681.9 | 3497.5 | 3429.4 | 3372.7 | 3367.0 | 3508.9 | 3931.5 | 3894.6 | 3866.3 |
| 37.5° | 11272.6 | 6484.4  | 3511.7 | 3350.0 | 3355.7 | 3293.3 | 3273.4 | 3435.1 | 3979.7 | 3835.1 | 3815.2 |
| 40°   | 12083.9 | 6405.0  | 3367.0 | 3194.0 | 3264.9 | 3256.4 | 3216.7 | 3299.0 | 3662.0 | 3398.2 | 3364.2 |
| 42.5° | 13088.0 | 6416.4  | 3259.2 | 3026.6 | 3157.1 | 3247.9 | 3185.5 | 3188.3 | 3318.8 | 3120.2 | 3089.0 |
| 45°   | 14327.6 | 6549.7  | 3182.7 | 2893.3 | 3035.1 | 3239.4 | 3174.1 | 3128.8 | 3140.1 | 3035.1 | 3018.1 |
| 47.5° | 15774.3 | 6824.8  | 3128.8 | 2782.7 | 2918.8 | 3208.2 | 3171.3 | 3111.7 | 3086.2 | 3029.5 | 3015.3 |
| 50°   | 17382.6 | 7224.8  | 3089.0 | 2677.7 | 2813.9 | 3157.1 | 3174.1 | 3094.7 | 3066.4 | 3043.7 | 3035.1 |
| 52.5° | 18962.6 | 7681.5  | 3029.5 | 2587.0 | 2731.6 | 3094.7 | 3182.7 | 3077.7 | 3046.5 | 3029.5 | 3021.0 |
| 55°   | 20724.1 | 8251.6  | 2938.7 | 2510.4 | 2663.6 | 3015.3 | 3182.7 | 3052.2 | 3018.1 | 3021.0 | 3018.1 |
| 57.5° | 23104.0 | 9173.5  | 2830.9 | 2445.1 | 2581.3 | 2918.8 | 3128.8 | 3023.8 | 2981.3 | 2984.1 | 2986.9 |
| 60°   | 26822.8 | 10798.9 | 2700.4 | 2379.9 | 2479.2 | 2805.4 | 3055.0 | 2961.4 | 2918.8 | 2930.2 | 2933.0 |
| 62.5° | 32291.7 | 13184.5 | 2530.2 | 2283.5 | 2371.4 | 2683.4 | 2952.9 | 2882.0 | 2839.4 | 2867.8 | 2867.8 |
| 65°   | 37976.2 | 15289.2 | 2320.3 | 2161.5 | 2257.9 | 2550.1 | 2825.2 | 2782.7 | 2740.1 | 2805.4 | 2802.5 |
| 67.5° | 39505.1 | 14818.3 | 2110.4 | 2028.2 | 2144.5 | 2402.6 | 2672.1 | 2649.4 | 2626.7 | 2740.1 | 2734.5 |
| 70°   | 35094.2 | 11896.6 | 1917.5 | 1892.0 | 2019.6 | 2243.7 | 2507.5 | 2507.5 | 2493.4 | 2578.5 | 2558.6 |
| 72.5° | 26737.7 | 8436.0  | 1733.2 | 1747.3 | 1877.8 | 2070.7 | 2328.8 | 2348.7 | 2326.0 | 2368.5 | 2351.5 |
| 75°   | 14313.4 | 4827.9  | 1548.8 | 1588.5 | 1702.0 | 1894.8 | 2130.3 | 2150.1 | 2135.9 | 2133.1 | 2141.6 |
| 77.5° | 4757.0  | 2360.0  | 1355.9 | 1418.3 | 1517.6 | 1713.3 | 1923.2 | 1954.4 | 1920.4 | 1914.7 | 1911.9 |
| 80°   | 2118.9  | 1483.5  | 1143.1 | 1225.4 | 1313.3 | 1506.2 | 1704.8 | 1730.3 | 1693.4 | 1744.5 | 1679.3 |
| 82.5° | 1361.6  | 975.8   | 916.2  | 1007.0 | 1092.1 | 1299.2 | 1486.4 | 1492.0 | 1458.0 | 1693.4 | 1443.8 |
| 85°   | 660.9   | 604.2   | 689.3  | 771.6  | 845.3  | 1021.2 | 1231.1 | 1233.9 | 1148.8 | 1046.7 | 1009.8 |
| 87.5° | 329.0   | 351.7   | 459.5  | 533.3  | 570.2  | 700.6  | 896.4  | 879.3  | 842.5  | 765.9  | 706.3  |
| 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)