

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: P300755

Luminaire Tested: **GAA-AF-06-LED-U-AFL-7060-600-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P300755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
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-AFL-7060-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive  
Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17441.9 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 193  
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



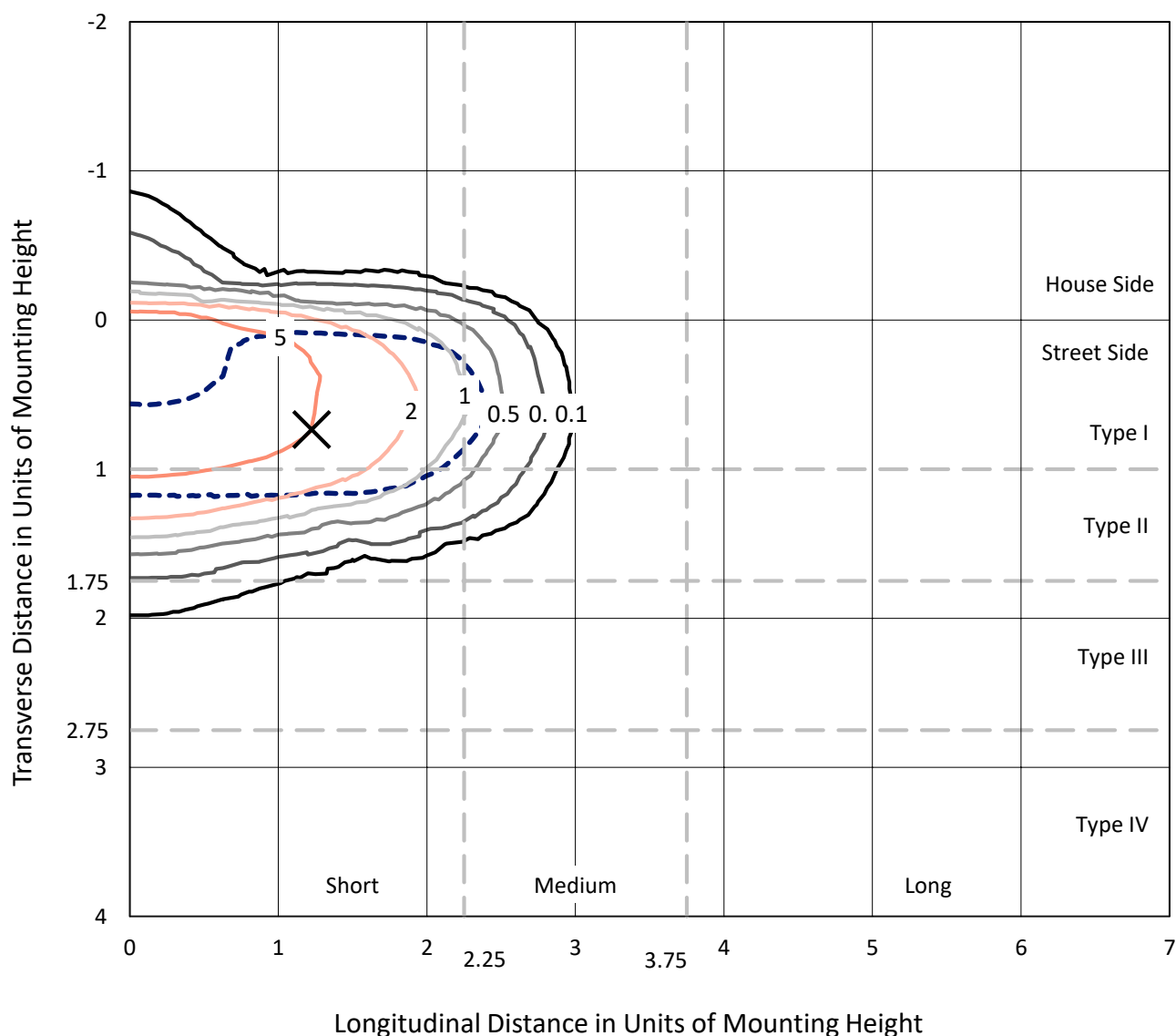
REPORT NUMBER: P300755

CATALOG NUMBER: GAA-AF-06-LED-U-AFL-7060-600-HSS

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

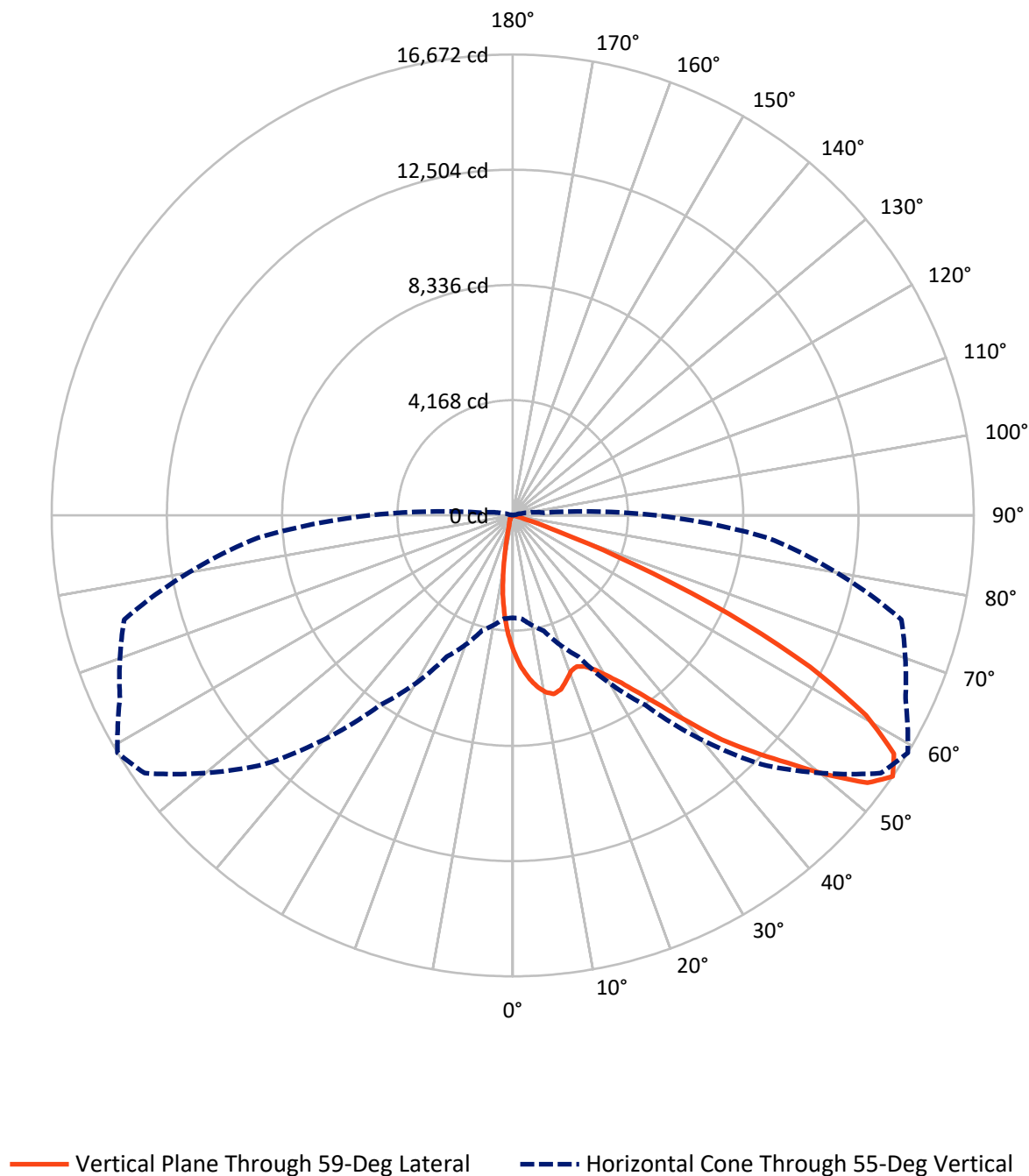


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300755

CATALOG NUMBER: GAA-AF-06-LED-U-AFL-7060-600-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P300755

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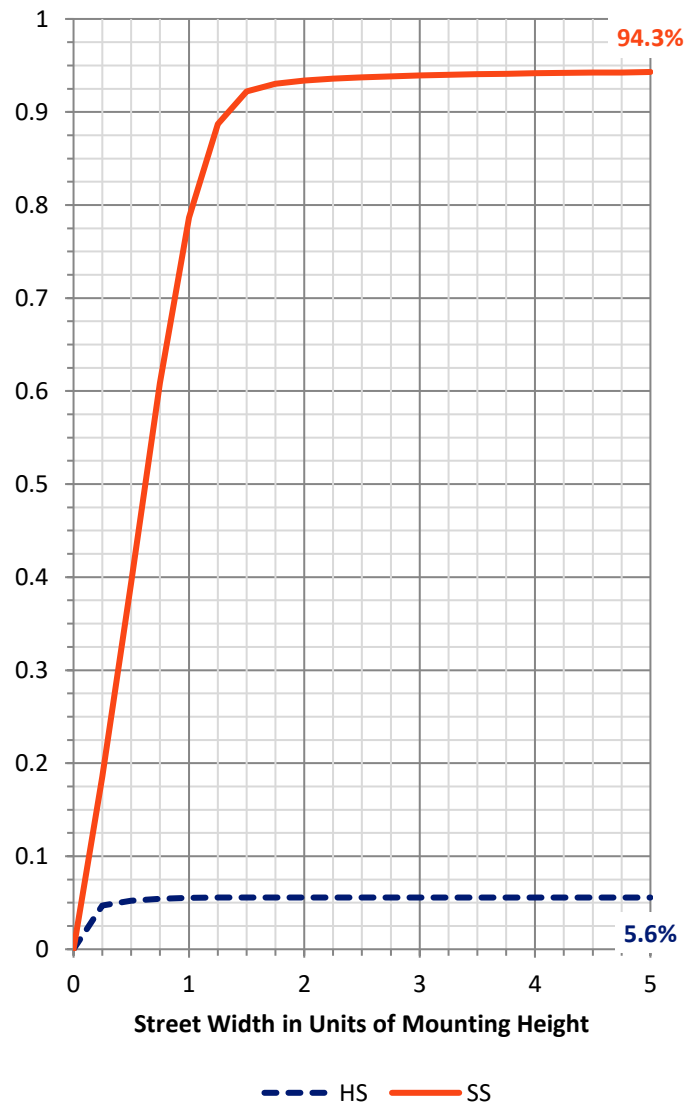
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 974.2    | 0.0    | 974.2   |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 16467.6  | 0.0    | 16467.6 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 17441.9  | 0.0    | 17441.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 411.2   | 2.4       |
| 10°-20°   | 984.6   | 5.6       |
| 20°-30°   | 1675.5  | 9.6       |
| 30°-40°   | 2881.5  | 16.5      |
| 40°-50°   | 4448.7  | 25.5      |
| 50°-60°   | 4472.3  | 25.6      |
| 60°-70°   | 2293.4  | 13.1      |
| 70°-80°   | 248.5   | 1.4       |
| 80°-90°   | 26.0    | 0.1       |
| 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°    | 17441.9 | 100.0     |
| 0°-180°   | 17441.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P300755

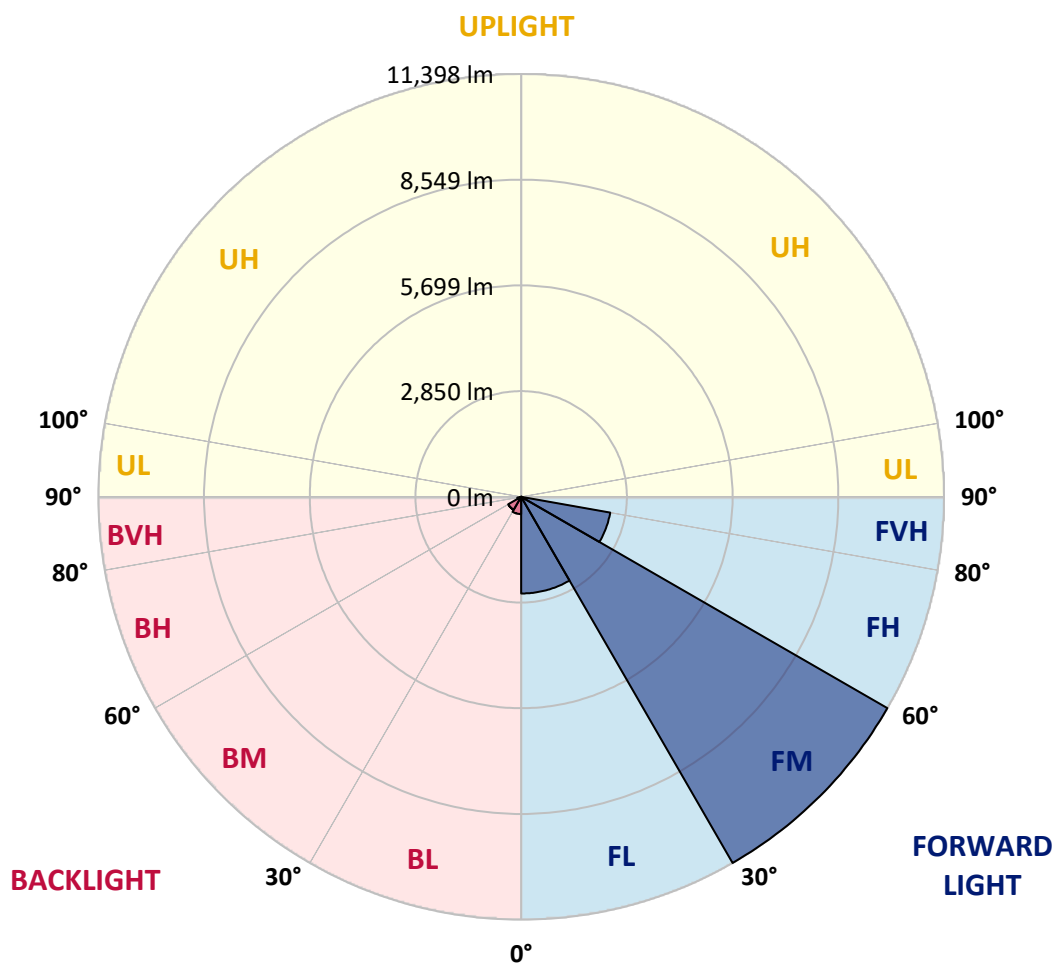
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2606.4  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 11398.2 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 2437.6  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 25.4    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 465.0   | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 404.3   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 104.4   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P300755

CATALOG NUMBER: GAA-AF-06-LED-U-AFL-7060-600-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8  | 4909.8 |
| 2.5°  | 5809.4  | 5747.7  | 5729.2  | 5716.8  | 5660.2  | 5589.2  | 5492.4  | 5447.1  | 5354.5  | 5205.2  | 5022.0 |
| 5°    | 6341.6  | 6330.3  | 6289.1  | 6266.5  | 6205.7  | 6104.9  | 5950.5  | 5876.3  | 5729.2  | 5478.0  | 5149.7 |
| 7.5°  | 6109.0  | 6180.0  | 6236.6  | 6331.3  | 6450.7  | 6446.6  | 6316.9  | 6239.7  | 6075.0  | 5743.6  | 5291.7 |
| 10°   | 5210.4  | 5268.0  | 5360.7  | 5575.8  | 6014.3  | 6401.3  | 6553.6  | 6498.1  | 6366.3  | 5987.5  | 5428.6 |
| 12.5° | 5034.4  | 5028.2  | 5044.7  | 5107.5  | 5337.0  | 5888.7  | 6513.5  | 6625.7  | 6598.9  | 6210.9  | 5558.3 |
| 15°   | 5128.0  | 5120.8  | 5118.8  | 5140.4  | 5196.0  | 5428.6  | 6211.9  | 6534.1  | 6741.0  | 6417.8  | 5668.4 |
| 17.5° | 5390.5  | 5359.6  | 5343.2  | 5325.7  | 5309.2  | 5366.8  | 5849.6  | 6277.8  | 6762.6  | 6598.9  | 5760.0 |
| 20°   | 5840.3  | 5788.9  | 5728.1  | 5629.3  | 5536.7  | 5507.9  | 5697.2  | 6014.3  | 6685.4  | 6736.9  | 5819.7 |
| 22.5° | 6405.4  | 6339.5  | 6234.5  | 6054.4  | 5866.1  | 5756.9  | 5772.4  | 5930.9  | 6570.1  | 6887.1  | 5847.5 |
| 25°   | 7040.5  | 6956.1  | 6816.1  | 6566.0  | 6289.1  | 6095.6  | 5994.7  | 6050.3  | 6517.6  | 7063.1  | 5879.4 |
| 27.5° | 7720.9  | 7627.2  | 7444.0  | 7103.3  | 6789.3  | 6527.9  | 6322.0  | 6314.8  | 6607.2  | 7293.7  | 5930.9 |
| 30°   | 8395.1  | 8380.7  | 8141.9  | 7781.6  | 7365.8  | 7047.7  | 6751.3  | 6713.2  | 6857.3  | 7612.8  | 6032.8 |
| 32.5° | 9294.7  | 9186.6  | 8894.3  | 8523.7  | 8044.1  | 7662.2  | 7311.2  | 7222.7  | 7241.2  | 7984.4  | 6190.3 |
| 35°   | 10429.0 | 10310.6 | 9898.9  | 9387.3  | 8851.1  | 8400.2  | 8012.2  | 7891.7  | 7846.5  | 8592.7  | 6455.9 |
| 37.5° | 11161.9 | 11159.8 | 10901.5 | 10380.6 | 9805.2  | 9308.1  | 8886.1  | 8745.0  | 8653.4  | 9327.6  | 6867.6 |
| 40°   | 11181.4 | 11229.8 | 11263.8 | 11258.6 | 10849.0 | 10390.9 | 10016.2 | 9842.3  | 9629.2  | 10309.6 | 7399.7 |
| 42.5° | 10581.3 | 10705.9 | 11005.4 | 11513.9 | 11756.8 | 11574.6 | 11258.6 | 11087.8 | 10770.7 | 11360.5 | 8048.2 |
| 45°   | 9770.2  | 9856.7  | 10380.6 | 11317.3 | 12248.8 | 12748.0 | 12507.2 | 12201.5 | 11783.6 | 12456.7 | 8629.8 |
| 47.5° | 9406.9  | 9422.3  | 9761.0  | 10789.3 | 12285.9 | 13709.4 | 13855.6 | 13358.4 | 12703.8 | 13339.9 | 9084.7 |
| 50°   | 8321.0  | 8348.8  | 8816.1  | 9874.2  | 11851.5 | 14163.3 | 15210.2 | 14738.7 | 13707.4 | 14020.3 | 9250.4 |
| 52.5° | 6271.6  | 6310.7  | 6903.6  | 8370.4  | 10657.5 | 13969.8 | 16179.8 | 16065.5 | 14806.7 | 14352.7 | 9259.7 |
| 55°   | 3700.4  | 3751.8  | 4318.0  | 5634.5  | 8382.7  | 12738.8 | 16251.8 | 16671.8 | 15674.4 | 14549.3 | 9245.3 |
| 57.5° | 1728.2  | 1764.2  | 2088.5  | 2902.7  | 5213.5  | 10067.7 | 15166.9 | 16255.9 | 16153.0 | 14653.3 | 9347.2 |
| 60°   | 918.1   | 928.4   | 1006.7  | 1256.8  | 2356.1  | 6383.8  | 13049.6 | 14679.0 | 15716.6 | 14797.4 | 9471.7 |
| 62.5° | 702.0   | 705.1   | 701.0   | 730.8   | 990.2   | 2833.7  | 9863.9  | 12067.7 | 13959.5 | 14689.3 | 9333.8 |
| 65°   | 608.3   | 613.5   | 584.6   | 577.4   | 635.1   | 1010.8  | 5859.9  | 8602.0  | 10969.4 | 13230.8 | 8394.0 |
| 67.5° | 545.5   | 547.6   | 512.6   | 482.7   | 493.0   | 546.6   | 2311.8  | 4709.1  | 7260.8  | 9698.2  | 6084.3 |
| 70°   | 502.3   | 500.2   | 462.2   | 414.8   | 401.4   | 373.6   | 734.9   | 1726.2  | 3469.8  | 4918.1  | 2829.6 |
| 72.5° | 444.7   | 445.7   | 427.2   | 365.4   | 333.5   | 261.4   | 340.7   | 503.3   | 1035.5  | 1340.2  | 662.9  |
| 75°   | 394.2   | 389.1   | 366.4   | 327.3   | 274.8   | 171.9   | 168.8   | 224.4   | 319.1   | 317.0   | 143.1  |
| 77.5° | 285.1   | 280.0   | 287.2   | 268.7   | 211.0   | 111.2   | 84.4    | 108.1   | 129.7   | 125.6   | 40.1   |
| 80°   | 209.0   | 205.9   | 185.3   | 223.4   | 186.3   | 76.2    | 52.5    | 57.6    | 66.9    | 56.6    | 12.4   |
| 82.5° | 143.1   | 142.0   | 130.7   | 123.5   | 106.0   | 46.3    | 32.9    | 36.0    | 43.2    | 31.9    | 6.2    |
| 85°   | 22.6    | 25.7    | 94.7    | 75.1    | 62.8    | 20.6    | 22.6    | 24.7    | 28.8    | 17.5    | 2.1    |
| 87.5° | 0.0     | 0.0     | 44.3    | 39.1    | 12.4    | 8.2     | 13.4    | 14.4    | 14.4    | 9.3     | 0.0    |
| 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: P300755

CATALOG NUMBER: GAA-AF-06-LED-U-AFL-7060-600-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 | 4909.8 |
| 2.5°  | 4928.4 | 4825.4 | 4635.0 | 4438.4 | 4256.2 | 4039.0 | 3889.8 | 3777.6 | 3647.9 | 3612.9 | 3689.1 |
| 5°    | 4962.3 | 4767.8 | 4358.1 | 3912.4 | 3493.5 | 3029.3 | 2674.2 | 2393.2 | 2138.9 | 2052.5 | 2130.7 |
| 7.5°  | 5015.8 | 4726.6 | 4058.6 | 3324.7 | 2595.9 | 1871.3 | 1375.2 | 1048.9 | 840.9  | 779.2  | 812.1  |
| 10°   | 5069.4 | 4666.9 | 3711.7 | 2628.9 | 1632.5 | 910.9  | 592.9  | 473.5  | 429.2  | 420.0  | 425.1  |
| 12.5° | 5113.6 | 4586.6 | 3288.7 | 1869.2 | 872.9  | 487.9  | 388.1  | 368.5  | 362.3  | 362.3  | 364.4  |
| 15°   | 5140.4 | 4465.2 | 2787.4 | 1188.9 | 502.3  | 368.5  | 338.6  | 332.5  | 332.5  | 333.5  | 335.6  |
| 17.5° | 5137.3 | 4310.8 | 2238.8 | 719.5  | 375.7  | 326.3  | 308.8  | 303.6  | 302.6  | 304.7  | 305.7  |
| 20°   | 5099.2 | 4109.0 | 1688.1 | 474.5  | 327.3  | 297.5  | 280.0  | 270.7  | 269.7  | 271.7  | 273.8  |
| 22.5° | 5027.2 | 3859.9 | 1207.4 | 365.4  | 295.4  | 269.7  | 248.1  | 239.8  | 239.8  | 241.9  | 243.9  |
| 25°   | 4939.7 | 3555.2 | 825.5  | 309.8  | 266.6  | 239.8  | 219.2  | 212.0  | 214.1  | 219.2  | 220.3  |
| 27.5° | 4830.6 | 3212.5 | 561.0  | 265.6  | 231.6  | 210.0  | 194.5  | 189.4  | 194.5  | 201.7  | 203.8  |
| 30°   | 4736.9 | 2855.3 | 400.4  | 229.5  | 196.6  | 181.2  | 171.9  | 171.9  | 179.1  | 192.5  | 195.6  |
| 32.5° | 4664.8 | 2509.5 | 308.8  | 202.8  | 170.9  | 157.5  | 152.3  | 157.5  | 168.8  | 182.2  | 185.3  |
| 35°   | 4655.6 | 2224.3 | 261.4  | 181.2  | 152.3  | 139.0  | 136.9  | 146.2  | 157.5  | 167.8  | 169.8  |
| 37.5° | 4726.6 | 1960.8 | 235.7  | 163.7  | 135.9  | 123.5  | 121.5  | 132.8  | 144.1  | 156.5  | 159.5  |
| 40°   | 4861.4 | 1753.9 | 217.2  | 147.2  | 122.5  | 109.1  | 105.0  | 113.2  | 128.7  | 145.1  | 149.3  |
| 42.5° | 5036.4 | 1583.1 | 196.6  | 130.7  | 109.1  | 90.6   | 85.4   | 94.7   | 111.2  | 128.7  | 133.8  |
| 45°   | 5203.2 | 1435.9 | 174.0  | 112.2  | 91.6   | 70.0   | 67.9   | 80.3   | 88.5   | 106.0  | 110.1  |
| 47.5° | 5294.8 | 1306.2 | 154.4  | 91.6   | 71.0   | 56.6   | 56.6   | 59.7   | 67.9   | 88.5   | 92.6   |
| 50°   | 5263.9 | 1202.2 | 133.8  | 67.9   | 49.4   | 43.2   | 43.2   | 42.2   | 54.6   | 71.0   | 74.1   |
| 52.5° | 5202.1 | 1142.5 | 115.3  | 52.5   | 34.0   | 30.9   | 27.8   | 30.9   | 38.1   | 45.3   | 46.3   |
| 55°   | 5192.9 | 1132.2 | 96.8   | 42.2   | 23.7   | 20.6   | 15.4   | 15.4   | 15.4   | 14.4   | 12.4   |
| 57.5° | 5264.9 | 1148.7 | 81.3   | 34.0   | 17.5   | 13.4   | 8.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 5339.0 | 1166.2 | 70.0   | 23.7   | 12.4   | 7.2    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 5215.5 | 1127.1 | 58.7   | 14.4   | 9.3    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 4581.5 | 959.3  | 46.3   | 10.3   | 6.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3258.8 | 642.3  | 30.9   | 6.2    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 1487.4 | 268.7  | 19.6   | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 318.1  | 83.4   | 13.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 64.8   | 60.7   | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 20.6   | 95.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 12.4   | 69.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 2.1    | 10.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)