

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: P192668

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7030-800-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192668  
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: GAN-AF-10-LED-U-AFL-7030-800-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37687.9 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 419  
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

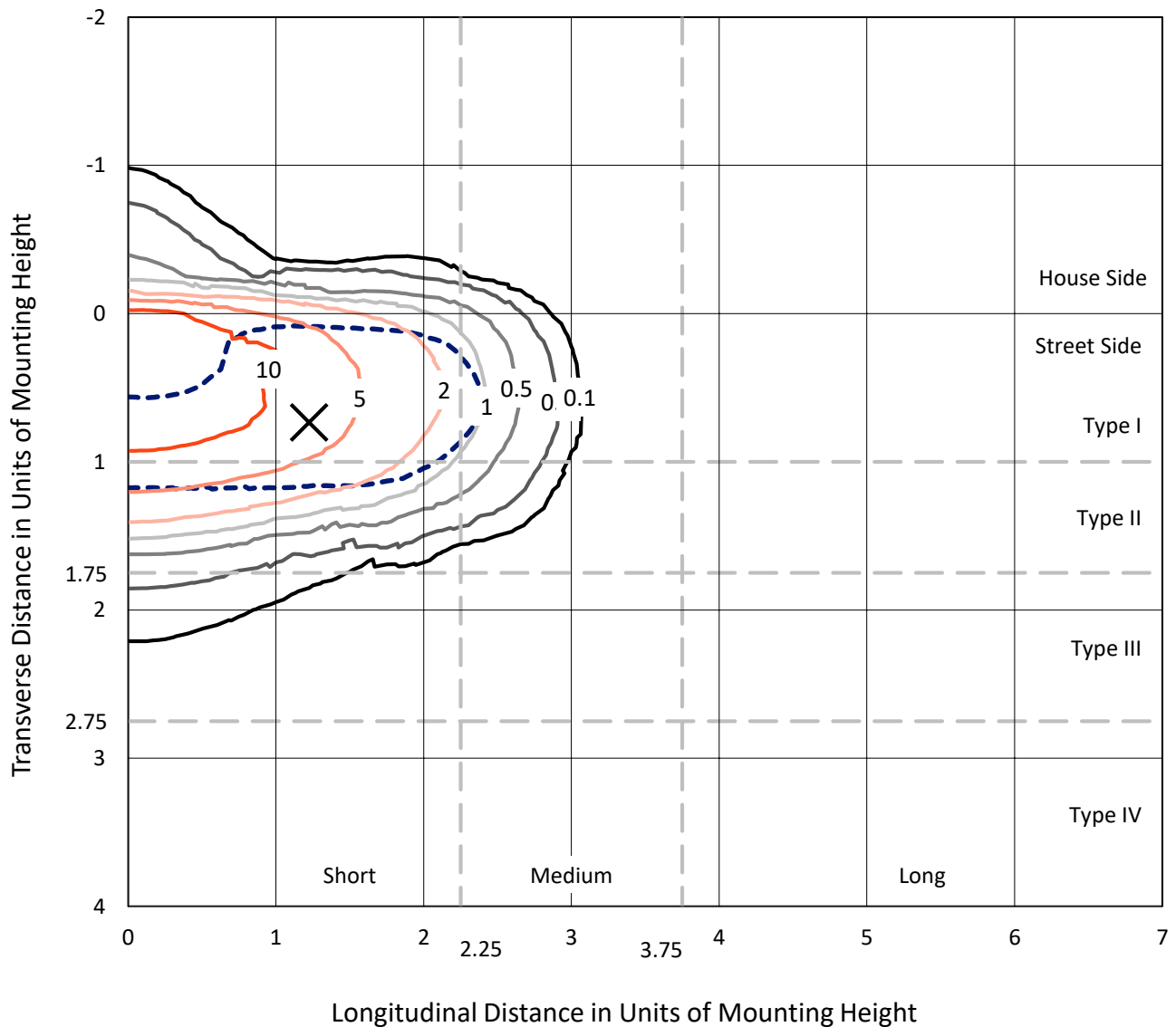


REPORT NUMBER: P192668

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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

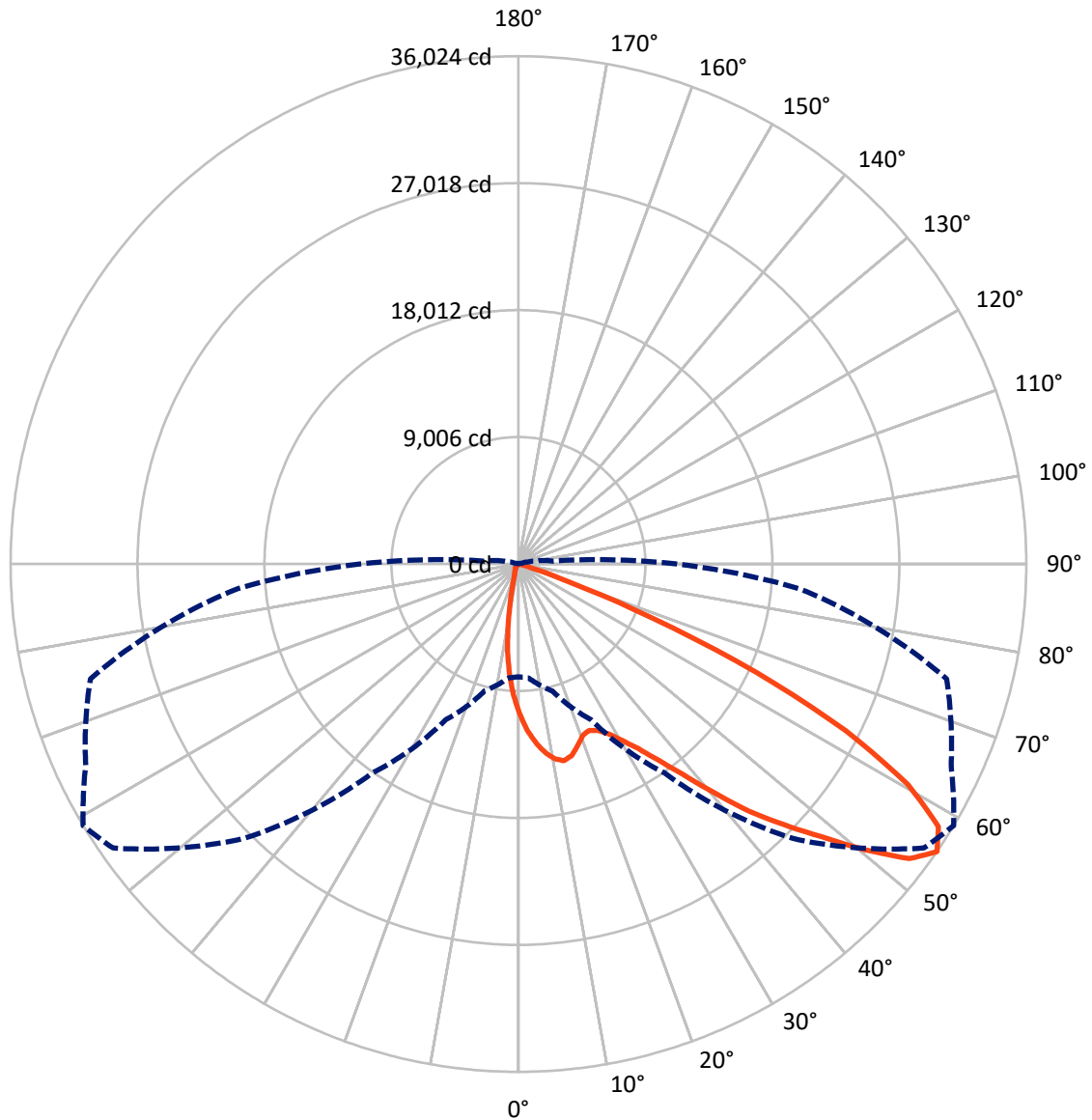


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GAN-AF-10-LED-U-AFL-7030-800-HSS-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2105.1   | 0.0    | 2105.1  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 35582.8  | 0.0    | 35582.8 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 37687.9  | 0.0    | 37687.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 888.6   | 2.4       |
| 10°-20°   | 2127.6  | 5.6       |
| 20°-30°   | 3620.4  | 9.6       |
| 30°-40°   | 6226.2  | 16.5      |
| 40°-50°   | 9612.6  | 25.5      |
| 50°-60°   | 9663.7  | 25.6      |
| 60°-70°   | 4955.6  | 13.1      |
| 70°-80°   | 537.0   | 1.4       |
| 80°-90°   | 56.1    | 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°    | 37687.9 | 100.0     |
| 0°-180°   | 37687.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192668

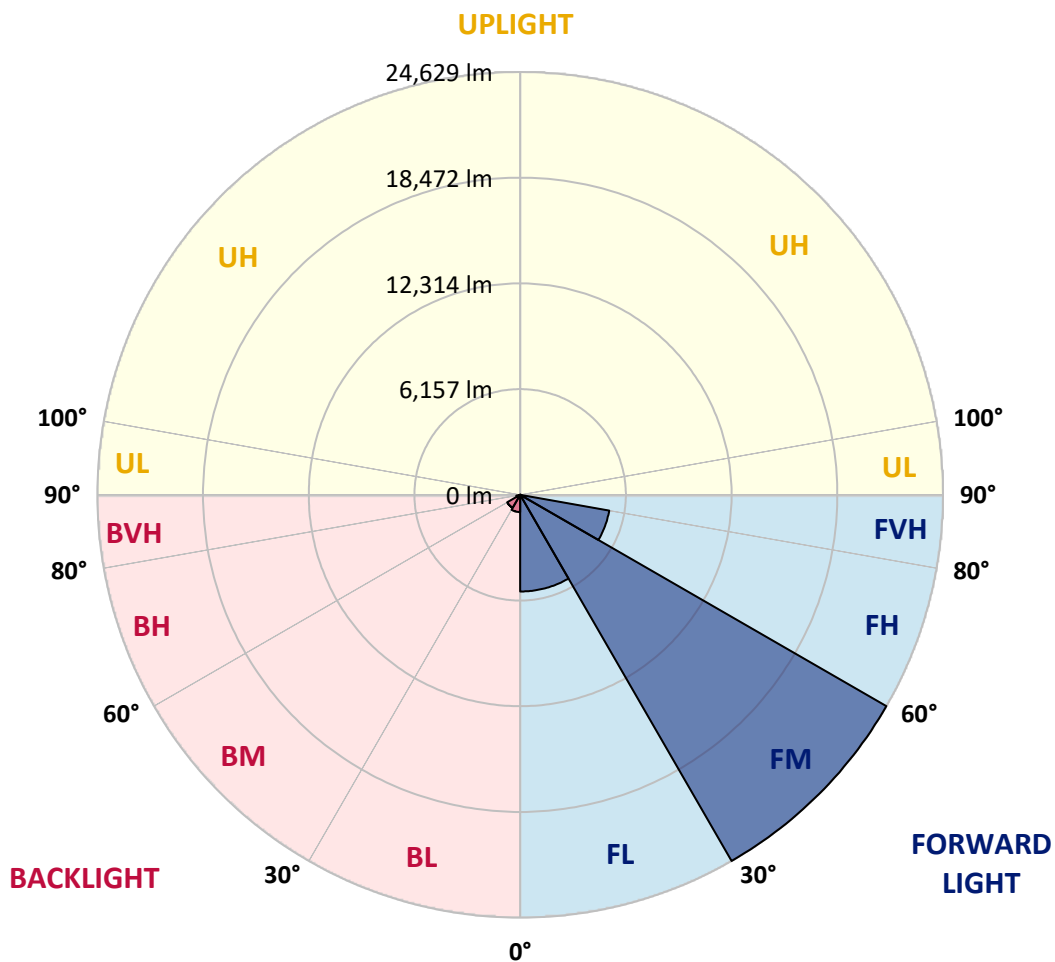
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5631.8  | 14.9      |                         |      |         |
| FM (30°-60°)   | 24628.9 | 65.3      |                         |      |         |
| FH (60°-80°)   | 5267.1  | 14.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 55.0    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1004.8  | 2.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 873.7   | 2.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 225.5   | 0.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.2     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P192668

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 |
| 2.5°  | 12552.9 | 12419.4 | 12379.4 | 12352.8 | 12230.4 | 12076.9 | 11867.8 | 11770.0 | 11569.8 | 11247.3 | 10851.4 |
| 5°    | 13702.7 | 13678.2 | 13589.3 | 13540.4 | 13409.2 | 13191.2 | 12857.6 | 12697.4 | 12379.4 | 11836.7 | 11127.2 |
| 7.5°  | 13200.0 | 13353.5 | 13475.9 | 13680.5 | 13938.5 | 13929.6 | 13649.3 | 13482.6 | 13126.7 | 12410.5 | 11434.2 |
| 10°   | 11258.4 | 11382.9 | 11583.1 | 12048.0 | 12995.6 | 13831.7 | 14160.9 | 14040.8 | 13756.1 | 12937.6 | 11730.0 |
| 12.5° | 10878.1 | 10864.7 | 10900.4 | 11036.1 | 11532.0 | 12724.2 | 14074.1 | 14316.6 | 14258.8 | 13420.4 | 12010.3 |
| 15°   | 11080.5 | 11064.9 | 11060.6 | 11107.2 | 11227.3 | 11730.0 | 13422.5 | 14118.7 | 14565.7 | 13867.3 | 12248.2 |
| 17.5° | 11647.7 | 11580.9 | 11545.3 | 11507.5 | 11472.0 | 11596.6 | 12639.6 | 13564.9 | 14612.5 | 14258.8 | 12446.2 |
| 20°   | 12619.6 | 12508.4 | 12377.2 | 12163.7 | 11963.5 | 11901.2 | 12310.5 | 12995.6 | 14445.6 | 14556.8 | 12575.0 |
| 22.5° | 13840.6 | 13698.3 | 13471.4 | 13082.2 | 12675.1 | 12439.5 | 12472.8 | 12815.3 | 14196.5 | 14881.5 | 12635.2 |
| 25°   | 15212.9 | 15030.6 | 14728.0 | 14187.7 | 13589.3 | 13171.2 | 12953.2 | 13073.3 | 14083.1 | 15261.9 | 12704.1 |
| 27.5° | 16683.1 | 16480.6 | 16084.7 | 15348.6 | 14670.2 | 14105.3 | 13660.4 | 13645.0 | 14276.6 | 15760.0 | 12815.3 |
| 30°   | 18139.9 | 18108.7 | 17592.7 | 16814.2 | 15915.7 | 15228.4 | 14588.0 | 14505.7 | 14816.9 | 16449.5 | 13035.5 |
| 32.5° | 20083.7 | 19850.2 | 19218.4 | 18417.9 | 17381.4 | 16556.3 | 15797.9 | 15606.6 | 15646.6 | 17252.5 | 13375.8 |
| 35°   | 22534.7 | 22278.9 | 21389.2 | 20283.9 | 19125.1 | 18150.9 | 17312.4 | 17052.2 | 16954.5 | 18566.9 | 13949.5 |
| 37.5° | 24118.2 | 24113.8 | 23555.5 | 22430.2 | 21186.9 | 20112.7 | 19200.7 | 18896.1 | 18698.1 | 20154.8 | 14839.3 |
| 40°   | 24160.5 | 24265.1 | 24338.5 | 24327.3 | 23442.1 | 22452.3 | 21642.8 | 21267.0 | 20806.6 | 22276.7 | 15989.1 |
| 42.5° | 22863.8 | 23132.9 | 23780.2 | 24878.9 | 25403.8 | 25010.1 | 24327.3 | 23958.2 | 23273.1 | 24547.5 | 17390.4 |
| 45°   | 21111.3 | 21298.1 | 22430.2 | 24454.1 | 26467.0 | 27545.6 | 27025.2 | 26364.6 | 25461.6 | 26916.1 | 18647.0 |
| 47.5° | 20326.1 | 20359.5 | 21091.2 | 23313.0 | 26546.9 | 29622.9 | 29938.7 | 28864.5 | 27450.0 | 28824.4 | 19629.9 |
| 50°   | 17979.7 | 18039.8 | 19049.5 | 21335.9 | 25608.4 | 30603.7 | 32865.6 | 31847.0 | 29618.4 | 30294.7 | 19988.1 |
| 52.5° | 13551.5 | 13636.0 | 14917.0 | 18086.4 | 23028.5 | 30185.6 | 34960.8 | 34714.0 | 31993.9 | 31013.0 | 20008.1 |
| 55°   | 7995.7  | 8106.9  | 9330.2  | 12174.8 | 18113.1 | 27525.5 | 35116.5 | 36023.9 | 33868.7 | 31437.8 | 19977.0 |
| 57.5° | 3734.3  | 3812.2  | 4512.7  | 6272.0  | 11265.0 | 21754.1 | 32772.4 | 35125.3 | 34903.0 | 31662.5 | 20197.1 |
| 60°   | 1983.9  | 2006.1  | 2175.2  | 2715.6  | 5090.9  | 13794.0 | 28197.3 | 31718.1 | 33960.0 | 31973.8 | 20466.2 |
| 62.5° | 1516.8  | 1523.5  | 1514.7  | 1579.2  | 2139.7  | 6123.0  | 21313.6 | 26075.5 | 30163.4 | 31740.3 | 20168.2 |
| 65°   | 1314.5  | 1325.6  | 1263.2  | 1247.7  | 1372.3  | 2184.1  | 12661.8 | 18586.8 | 23702.3 | 28588.7 | 18137.6 |
| 67.5° | 1178.8  | 1183.3  | 1107.6  | 1043.1  | 1065.4  | 1181.0  | 4995.4  | 10175.4 | 15688.9 | 20955.6 | 13146.7 |
| 70°   | 1085.4  | 1080.9  | 998.6   | 896.4   | 867.4   | 807.3   | 1588.0  | 3729.8  | 7497.5  | 10626.8 | 6114.0  |
| 72.5° | 960.8   | 963.0   | 923.0   | 789.5   | 720.6   | 564.9   | 736.2   | 1087.5  | 2237.4  | 2895.8  | 1432.3  |
| 75°   | 851.7   | 840.7   | 791.8   | 707.2   | 593.9   | 371.4   | 364.7   | 484.9   | 689.4   | 685.0   | 309.2   |
| 77.5° | 616.1   | 605.0   | 620.5   | 580.5   | 455.9   | 240.2   | 182.4   | 233.5   | 280.2   | 271.3   | 86.8    |
| 80°   | 451.5   | 444.8   | 400.3   | 482.6   | 402.5   | 164.6   | 113.4   | 124.5   | 144.5   | 122.4   | 26.7    |
| 82.5° | 309.2   | 306.9   | 282.4   | 266.9   | 229.1   | 100.1   | 71.1    | 77.8    | 93.4    | 69.0    | 13.3    |
| 85°   | 48.9    | 55.6    | 204.7   | 162.4   | 135.7   | 44.5    | 48.9    | 53.4    | 62.3    | 37.8    | 4.5     |
| 87.5° | 0.0     | 0.0     | 95.6    | 84.5    | 26.7    | 17.8    | 29.0    | 31.1    | 31.1    | 20.0    | 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     |



REPORT NUMBER: P192668

CATALOG NUMBER: GAN-AF-10-LED-U-AFL-7030-800-HSS-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 | 10609.0 |
| 2.5°  | 10649.1 | 10426.6 | 10015.1 | 9590.3  | 9196.7  | 8727.4  | 8404.9  | 8162.4  | 7882.3  | 7806.6  | 7971.2  |
| 5°    | 10722.4 | 10302.0 | 9416.8  | 8453.8  | 7548.6  | 6545.5  | 5778.2  | 5171.0  | 4621.6  | 4434.9  | 4603.8  |
| 7.5°  | 10838.1 | 10213.1 | 8769.7  | 7183.9  | 5609.2  | 4043.4  | 2971.5  | 2266.4  | 1817.1  | 1683.6  | 1754.8  |
| 10°   | 10953.8 | 10084.1 | 8020.1  | 5680.4  | 3527.4  | 1968.3  | 1281.1  | 1023.1  | 927.5   | 907.4   | 918.6   |
| 12.5° | 11049.4 | 9910.6  | 7106.0  | 4039.0  | 1886.1  | 1054.3  | 838.4   | 796.3   | 782.9   | 782.9   | 787.3   |
| 15°   | 11107.2 | 9648.1  | 6022.9  | 2568.8  | 1085.4  | 796.3   | 731.7   | 718.4   | 718.4   | 720.6   | 725.1   |
| 17.5° | 11100.5 | 9314.6  | 4837.5  | 1554.6  | 811.8   | 705.0   | 667.2   | 656.1   | 653.9   | 658.3   | 660.6   |
| 20°   | 11018.2 | 8878.6  | 3647.5  | 1025.3  | 707.2   | 642.8   | 605.0   | 585.0   | 582.7   | 587.2   | 591.6   |
| 22.5° | 10862.5 | 8340.5  | 2608.9  | 789.5   | 638.3   | 582.7   | 536.0   | 518.2   | 518.2   | 522.7   | 527.0   |
| 25°   | 10673.5 | 7682.1  | 1783.7  | 669.4   | 576.1   | 518.2   | 473.7   | 458.2   | 462.6   | 473.7   | 476.0   |
| 27.5° | 10437.7 | 6941.5  | 1212.1  | 573.8   | 500.4   | 453.8   | 420.3   | 409.2   | 420.3   | 436.0   | 440.5   |
| 30°   | 10235.4 | 6169.7  | 865.3   | 495.9   | 424.8   | 391.4   | 371.4   | 371.4   | 387.0   | 415.9   | 422.7   |
| 32.5° | 10079.7 | 5422.4  | 667.2   | 438.1   | 369.2   | 340.4   | 329.2   | 340.4   | 364.7   | 393.7   | 400.3   |
| 35°   | 10059.6 | 4806.4  | 564.9   | 391.4   | 329.2   | 300.3   | 295.8   | 315.9   | 340.4   | 362.5   | 367.0   |
| 37.5° | 10213.1 | 4237.0  | 509.3   | 353.7   | 293.6   | 266.9   | 262.4   | 287.0   | 311.4   | 338.0   | 344.7   |
| 40°   | 10504.5 | 3789.8  | 469.3   | 318.1   | 264.6   | 235.8   | 226.8   | 244.6   | 278.1   | 313.6   | 322.6   |
| 42.5° | 10882.6 | 3420.7  | 424.8   | 282.4   | 235.8   | 195.7   | 184.6   | 204.7   | 240.2   | 278.1   | 289.1   |
| 45°   | 11242.9 | 3102.6  | 375.9   | 242.4   | 198.0   | 151.3   | 146.9   | 173.5   | 191.3   | 229.1   | 237.9   |
| 47.5° | 11440.9 | 2822.3  | 333.6   | 198.0   | 153.5   | 122.4   | 122.4   | 129.0   | 146.9   | 191.3   | 200.2   |
| 50°   | 11374.1 | 2597.7  | 289.1   | 146.9   | 106.7   | 93.4    | 93.4    | 91.2    | 117.9   | 153.5   | 160.2   |
| 52.5° | 11240.7 | 2468.7  | 249.1   | 113.4   | 73.4    | 66.7    | 60.1    | 66.7    | 82.3    | 97.9    | 100.1   |
| 55°   | 11220.6 | 2446.6  | 209.0   | 91.2    | 51.2    | 44.5    | 33.4    | 33.4    | 33.4    | 31.1    | 26.7    |
| 57.5° | 11376.3 | 2482.2  | 175.7   | 73.4    | 37.8    | 29.0    | 17.8    | 0.0     | 0.0     | 0.0     | 0.0     |
| 60°   | 11536.4 | 2519.9  | 151.3   | 51.2    | 26.7    | 15.6    | 2.1     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62.5° | 11269.5 | 2435.4  | 126.7   | 31.1    | 20.0    | 6.7     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 65°   | 9899.6  | 2072.8  | 100.1   | 22.3    | 13.3    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 67.5° | 7041.5  | 1387.8  | 66.7    | 13.3    | 2.1     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 3213.9  | 580.5   | 42.3    | 4.5     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 687.2   | 180.2   | 29.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 140.1   | 131.2   | 11.2    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 44.5    | 206.8   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 26.7    | 149.0   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 4.5     | 22.3    | 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)