

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: P191947

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7050-1200-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-SL3-7050-1200-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49871 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 575  
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

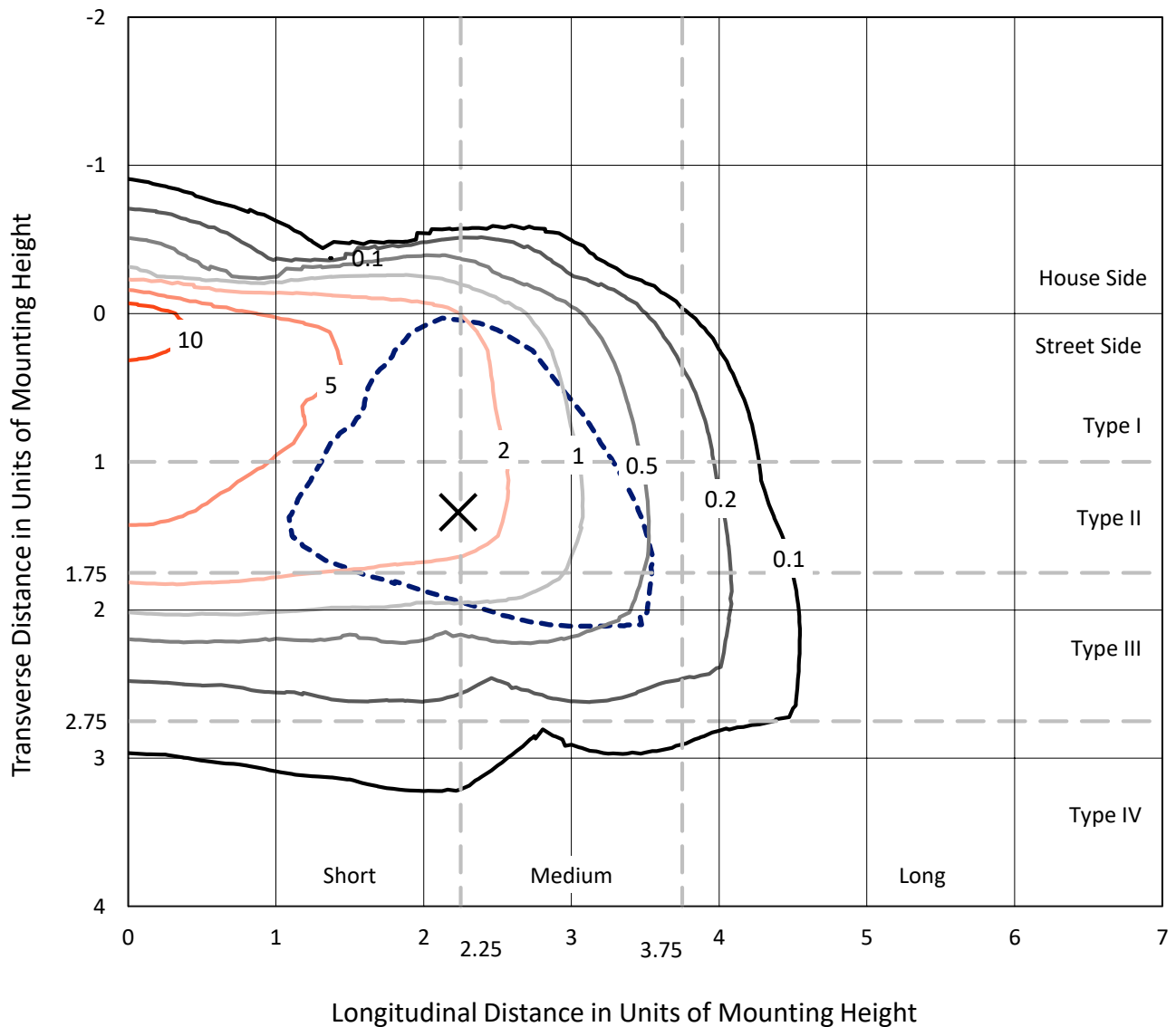


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

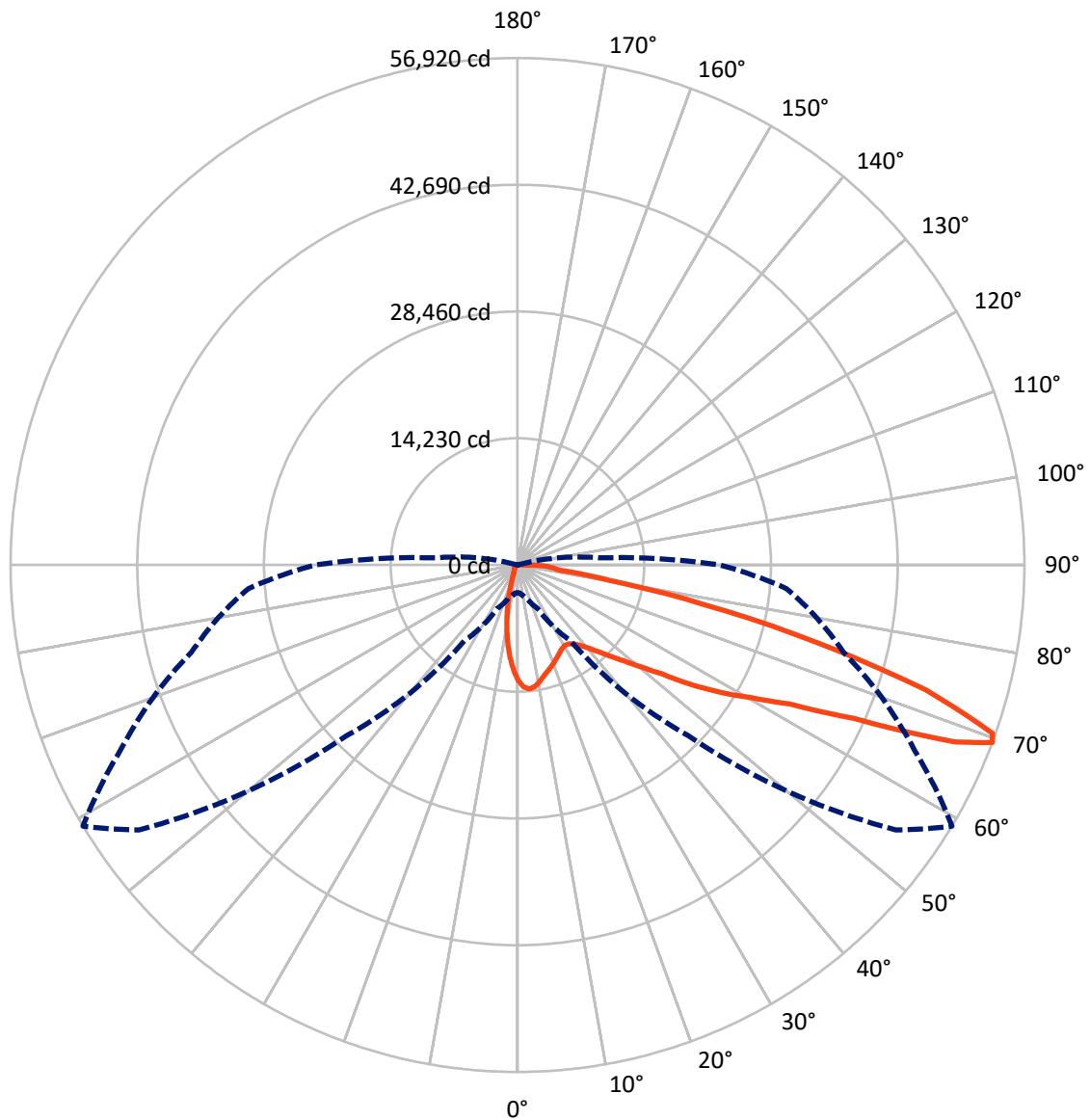


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4061.3   | 0.0    | 4061.3  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 45809.7  | 0.0    | 45809.7 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 49871.0  | 0.0    | 49871.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1053.7  | 2.1       |
| 10°-20°   | 2177.1  | 4.4       |
| 20°-30°   | 2929.6  | 5.9       |
| 30°-40°   | 4253.6  | 8.5       |
| 40°-50°   | 7082.6  | 14.2      |
| 50°-60°   | 11048.7 | 22.2      |
| 60°-70°   | 13671.9 | 27.4      |
| 70°-80°   | 6928.8  | 13.9      |
| 80°-90°   | 725.0   | 1.5       |
| 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°    | 49871.0 | 100.0     |
| 0°-180°   | 49871.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P191947

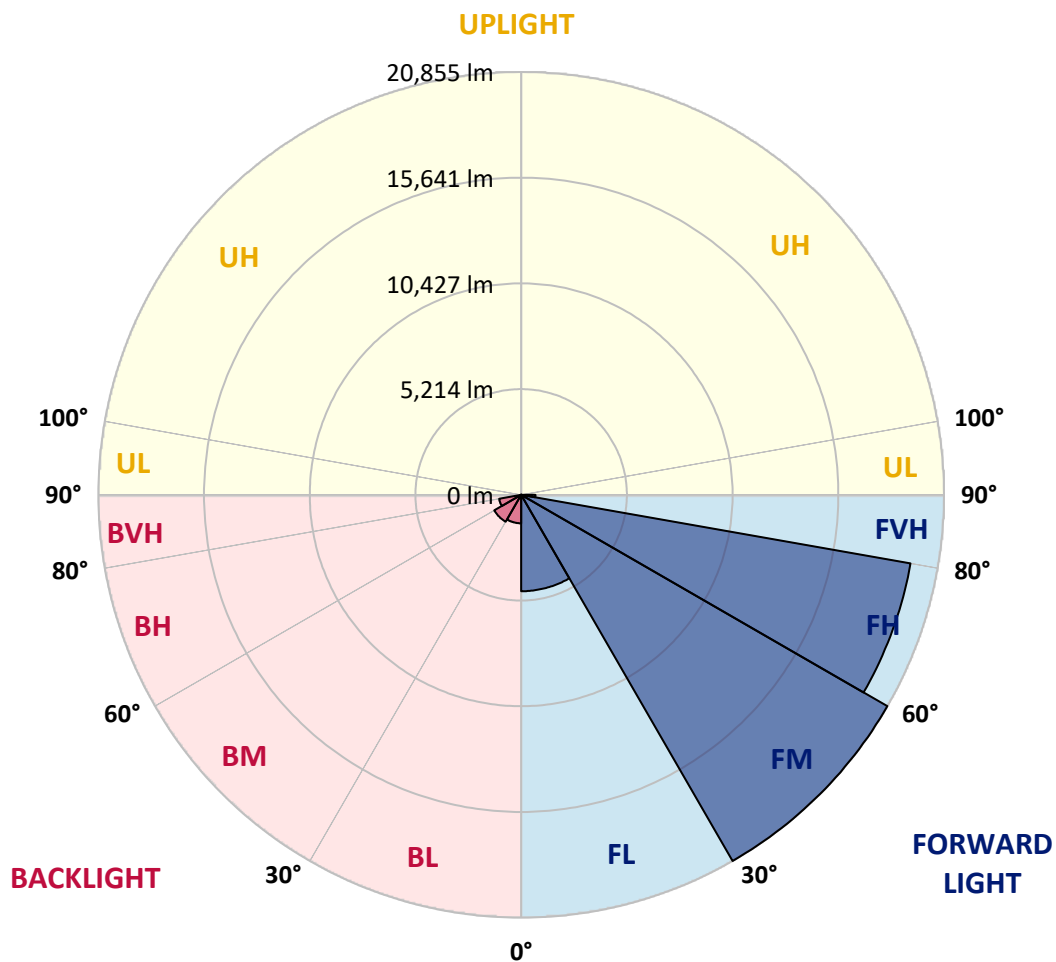
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4754.6  | 9.5       |                         |      |         |
| FM (30°-60°)   | 20854.6 | 41.8      |                         |      |         |
| FH (60°-80°)   | 19497.7 | 39.1      |                         |      | G5      |
| FVH (80°-90°)  | 702.7   | 1.4       |                         |      | G4/750  |
| BL (0°-30°)    | 1405.8  | 2.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 1530.3  | 3.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 1103.0  | 2.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 22.3    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P191947

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 |
| 2.5°  | 14227.2 | 14221.6 | 14159.5 | 14131.3 | 14080.6 | 13973.4 | 13807.0 | 13719.6 | 13578.6 | 13333.2 | 13003.3 |
| 5°    | 14097.5 | 14165.2 | 14201.8 | 14204.6 | 14241.3 | 14201.8 | 14052.4 | 13979.0 | 13784.4 | 13389.6 | 12797.4 |
| 7.5°  | 13217.6 | 13243.0 | 13347.3 | 13437.6 | 13612.4 | 13778.8 | 13832.4 | 13801.4 | 13685.7 | 13262.7 | 12475.9 |
| 10°   | 12275.7 | 12301.1 | 12425.2 | 12543.6 | 12780.5 | 13037.1 | 13307.9 | 13364.3 | 13412.2 | 13082.3 | 12165.7 |
| 12.5° | 11463.5 | 11488.9 | 11615.8 | 11770.9 | 12047.3 | 12363.1 | 12783.3 | 12876.4 | 13087.9 | 12910.2 | 11917.6 |
| 15°   | 10764.2 | 10775.4 | 10899.5 | 11091.3 | 11421.2 | 11827.3 | 12303.9 | 12453.4 | 12777.7 | 12789.0 | 11700.4 |
| 17.5° | 10169.1 | 10197.3 | 10273.5 | 10456.8 | 10817.7 | 11319.7 | 11875.3 | 12089.6 | 12470.3 | 12687.4 | 11488.9 |
| 20°   | 9805.3  | 9833.5  | 9830.7  | 9932.2  | 10256.6 | 10792.4 | 11446.6 | 11703.2 | 12165.7 | 12583.1 | 11300.0 |
| 22.5° | 9734.8  | 9734.8  | 9661.5  | 9647.4  | 9839.2  | 10287.6 | 11001.1 | 11314.1 | 11892.2 | 12538.0 | 11167.4 |
| 25°   | 9985.8  | 9974.5  | 9791.2  | 9641.8  | 9650.2  | 9918.1  | 10569.6 | 10941.8 | 11660.9 | 12569.0 | 11096.9 |
| 27.5° | 10516.0 | 10501.9 | 10270.7 | 9985.8  | 9757.4  | 9754.6  | 10242.5 | 10642.9 | 11477.6 | 12715.6 | 11125.1 |
| 30°   | 11249.2 | 11243.6 | 10992.6 | 10634.4 | 10219.9 | 9839.2  | 10129.7 | 10493.4 | 11359.2 | 12980.7 | 11190.0 |
| 32.5° | 12050.1 | 12041.7 | 11852.7 | 11474.8 | 10950.3 | 10219.9 | 10248.1 | 10552.7 | 11393.0 | 13333.2 | 11347.9 |
| 35°   | 12899.0 | 12884.8 | 12803.1 | 12473.1 | 11895.0 | 10922.1 | 10637.3 | 10874.1 | 11607.4 | 13860.6 | 11658.1 |
| 37.5° | 13818.3 | 13832.4 | 13891.6 | 13575.8 | 12969.5 | 11906.3 | 11288.7 | 11449.4 | 12038.8 | 14576.9 | 12162.9 |
| 40°   | 15174.7 | 15171.9 | 15191.7 | 14777.1 | 14193.4 | 13110.5 | 12199.6 | 12250.3 | 12760.8 | 15527.2 | 12930.0 |
| 42.5° | 17636.6 | 17464.6 | 16942.9 | 16096.9 | 15510.3 | 14486.6 | 13347.3 | 13293.8 | 13643.4 | 16703.2 | 14004.4 |
| 45°   | 20944.6 | 20578.0 | 19224.3 | 17602.8 | 16852.7 | 16037.7 | 14760.2 | 14588.2 | 14811.0 | 18116.1 | 15329.8 |
| 47.5° | 23790.0 | 23409.3 | 21494.5 | 19170.8 | 18276.8 | 17509.7 | 16415.6 | 16105.4 | 16178.7 | 19698.1 | 17010.6 |
| 50°   | 24757.3 | 24571.2 | 22898.9 | 20535.7 | 19655.8 | 19362.5 | 18336.0 | 17958.1 | 17853.8 | 21528.3 | 18959.3 |
| 52.5° | 24421.7 | 24407.6 | 23293.7 | 21421.2 | 20919.2 | 21280.2 | 20752.8 | 20315.7 | 19932.2 | 23457.3 | 20941.8 |
| 55°   | 23883.1 | 23953.6 | 23454.4 | 22196.7 | 22179.8 | 23031.4 | 24057.9 | 23694.1 | 22583.0 | 25552.6 | 22650.7 |
| 57.5° | 22396.9 | 22698.7 | 23364.2 | 23663.1 | 24356.9 | 25228.2 | 26810.3 | 27024.6 | 25710.5 | 27157.2 | 24069.2 |
| 60°   | 18172.5 | 18835.2 | 21012.3 | 23874.6 | 27162.8 | 29334.3 | 30132.3 | 30315.6 | 28276.7 | 28491.1 | 25984.0 |
| 62.5° | 12899.0 | 13575.8 | 16336.6 | 21178.6 | 27205.1 | 34729.0 | 35081.5 | 34362.4 | 31102.4 | 30467.9 | 29286.3 |
| 65°   | 6847.1  | 7368.8  | 9624.9  | 15287.5 | 23587.0 | 35981.1 | 43736.3 | 41593.1 | 36088.3 | 34356.8 | 33553.1 |
| 67.5° | 3502.5  | 3660.4  | 4557.2  | 7481.6  | 16215.3 | 31959.7 | 51494.3 | 53003.0 | 44681.0 | 38214.6 | 33347.2 |
| 69°   | 3099.2  | 3192.3  | 3787.3  | 5408.9  | 10383.5 | 27069.7 | 51872.2 | 56920.1 | 49179.0 | 37893.1 | 30304.4 |
| 70°   | 3000.5  | 3082.3  | 3623.8  | 4895.6  | 8116.1  | 22701.5 | 50425.5 | 56576.0 | 50329.6 | 36669.2 | 28031.4 |
| 72.5° | 2546.5  | 2617.0  | 3226.1  | 4326.0  | 6596.1  | 11269.0 | 40961.4 | 47941.0 | 45163.2 | 30546.9 | 20290.3 |
| 75°   | 1703.3  | 1934.6  | 3096.4  | 4055.2  | 6136.4  | 6401.5  | 27004.9 | 34644.4 | 32182.5 | 20603.4 | 10569.6 |
| 77.5° | 408.9   | 439.9   | 874.2   | 3226.1  | 5611.9  | 5634.5  | 13888.8 | 21536.8 | 17566.1 | 7343.4  | 2498.6  |
| 80°   | 220.0   | 211.5   | 245.3   | 640.2   | 5225.6  | 5287.6  | 6252.1  | 10454.0 | 6271.8  | 1218.3  | 823.5   |
| 82.5° | 155.1   | 146.6   | 157.9   | 267.9   | 1644.1  | 4816.7  | 4523.4  | 4732.1  | 2600.1  | 468.1   | 369.4   |
| 85°   | 56.4    | 53.6    | 87.4    | 242.5   | 516.1   | 2769.3  | 4647.5  | 3903.0  | 2106.6  | 214.3   | 270.7   |
| 87.5° | 19.7    | 16.9    | 33.8    | 132.5   | 157.9   | 1178.8  | 2868.0  | 2949.8  | 829.1   | 129.7   | 126.9   |
| 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: P191947

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7050-1200-HSS-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 | 12980.7 |
| 2.5°  | 12865.1 | 12690.3 | 12368.8 | 12038.8 | 11734.3 | 11367.7 | 11184.4 | 11003.9 | 10927.7 | 10899.5 | 10767.0 |
| 5°    | 12492.9 | 12196.8 | 11514.3 | 10829.0 | 10197.3 | 9526.2  | 9083.4  | 8728.1  | 8519.4  | 8417.9  | 8257.1  |
| 7.5°  | 12016.3 | 11531.2 | 10496.3 | 9438.7  | 8454.5  | 7484.4  | 6765.3  | 6212.6  | 5831.9  | 5648.6  | 5482.2  |
| 10°   | 11553.8 | 10908.0 | 9435.9  | 7994.9  | 6658.2  | 5372.2  | 4379.6  | 3660.4  | 3200.8  | 2989.3  | 2853.9  |
| 12.5° | 11139.2 | 10301.7 | 8412.2  | 6587.7  | 4909.7  | 3403.8  | 2394.2  | 1821.8  | 1536.9  | 1438.2  | 1390.3  |
| 15°   | 10769.8 | 9743.3  | 7445.0  | 5250.9  | 3324.8  | 1945.8  | 1308.5  | 1113.9  | 1068.8  | 1068.8  | 1063.2  |
| 17.5° | 10420.1 | 9196.2  | 6511.5  | 3996.0  | 2086.8  | 1190.1  | 995.5   | 970.1   | 970.1   | 981.4   | 981.4   |
| 20°   | 10084.5 | 8674.5  | 5609.1  | 2868.0  | 1314.1  | 944.7   | 899.6   | 894.0   | 899.6   | 913.7   | 913.7   |
| 22.5° | 9796.9  | 8200.7  | 4765.9  | 1968.4  | 975.7   | 851.7   | 829.1   | 820.6   | 823.5   | 831.9   | 837.6   |
| 25°   | 9582.6  | 7800.3  | 3970.6  | 1333.9  | 840.4   | 775.5   | 750.1   | 736.0   | 724.8   | 724.8   | 730.4   |
| 27.5° | 9447.2  | 7461.9  | 3200.8  | 970.1   | 755.8   | 705.0   | 665.5   | 643.0   | 617.6   | 603.5   | 609.1   |
| 30°   | 9348.5  | 7140.4  | 2478.8  | 792.4   | 676.8   | 626.1   | 575.3   | 538.6   | 502.0   | 485.1   | 490.7   |
| 32.5° | 9311.8  | 6880.9  | 1852.8  | 699.4   | 606.3   | 549.9   | 487.9   | 439.9   | 400.4   | 386.3   | 389.2   |
| 35°   | 9410.5  | 6675.1  | 1356.4  | 631.7   | 549.9   | 479.4   | 408.9   | 355.3   | 324.3   | 315.8   | 318.7   |
| 37.5° | 9670.0  | 6565.1  | 1015.2  | 575.3   | 499.2   | 420.2   | 341.2   | 290.5   | 270.7   | 270.7   | 273.5   |
| 40°   | 10160.7 | 6562.3  | 815.0   | 535.8   | 454.0   | 363.8   | 282.0   | 245.3   | 234.1   | 239.7   | 242.5   |
| 42.5° | 10877.0 | 6711.7  | 710.7   | 499.2   | 414.5   | 310.2   | 234.1   | 208.7   | 205.9   | 211.5   | 214.3   |
| 45°   | 11855.5 | 6985.3  | 654.3   | 468.1   | 372.2   | 259.4   | 197.4   | 180.5   | 180.5   | 188.9   | 191.8   |
| 47.5° | 13054.1 | 7385.7  | 606.3   | 437.1   | 329.9   | 217.1   | 169.2   | 157.9   | 160.7   | 169.2   | 172.0   |
| 50°   | 14497.9 | 7890.5  | 558.4   | 403.3   | 298.9   | 180.5   | 146.6   | 138.2   | 141.0   | 152.3   | 155.1   |
| 52.5° | 16142.0 | 8570.2  | 518.9   | 372.2   | 259.4   | 149.5   | 124.1   | 118.4   | 124.1   | 135.4   | 138.2   |
| 55°   | 17552.0 | 9179.3  | 470.9   | 346.9   | 208.7   | 124.1   | 101.5   | 101.5   | 107.2   | 121.3   | 124.1   |
| 57.5° | 18908.5 | 9816.6  | 428.6   | 298.9   | 163.6   | 98.7    | 84.6    | 87.4    | 95.9    | 110.0   | 112.8   |
| 60°   | 20899.5 | 10896.7 | 377.9   | 251.0   | 124.1   | 79.0    | 70.5    | 73.3    | 84.6    | 98.7    | 101.5   |
| 62.5° | 24280.7 | 12540.8 | 327.1   | 208.7   | 95.9    | 62.0    | 56.4    | 62.0    | 76.1    | 93.1    | 95.9    |
| 65°   | 27332.0 | 13209.2 | 267.9   | 174.8   | 73.3    | 47.9    | 47.9    | 56.4    | 73.3    | 90.2    | 93.1    |
| 67.5° | 25631.5 | 11119.5 | 208.7   | 138.2   | 56.4    | 36.7    | 39.5    | 53.6    | 70.5    | 90.2    | 93.1    |
| 69°   | 22667.6 | 9091.9  | 177.7   | 110.0   | 47.9    | 33.8    | 36.7    | 53.6    | 70.5    | 87.4    | 90.2    |
| 70°   | 20358.0 | 7676.2  | 157.9   | 93.1    | 42.3    | 33.8    | 36.7    | 50.8    | 70.5    | 87.4    | 90.2    |
| 72.5° | 13635.0 | 4145.5  | 126.9   | 67.7    | 39.5    | 31.0    | 31.0    | 50.8    | 67.7    | 84.6    | 87.4    |
| 75°   | 5860.1  | 1144.9  | 101.5   | 47.9    | 33.8    | 28.2    | 28.2    | 47.9    | 64.9    | 81.8    | 87.4    |
| 77.5° | 1071.6  | 290.5   | 81.8    | 42.3    | 33.8    | 28.2    | 25.4    | 45.1    | 62.0    | 79.0    | 81.8    |
| 80°   | 425.8   | 143.8   | 64.9    | 36.7    | 31.0    | 25.4    | 22.6    | 42.3    | 59.2    | 76.1    | 79.0    |
| 82.5° | 256.6   | 81.8    | 53.6    | 33.8    | 31.0    | 22.6    | 19.7    | 36.7    | 56.4    | 73.3    | 76.1    |
| 85°   | 208.7   | 56.4    | 42.3    | 33.8    | 28.2    | 22.6    | 16.9    | 33.8    | 50.8    | 70.5    | 73.3    |
| 87.5° | 101.5   | 39.5    | 39.5    | 31.0    | 28.2    | 22.6    | 16.9    | 31.0    | 47.9    | 67.7    | 70.5    |
| 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)