

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: P193587

Luminaire Tested: **GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-8030-800-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29059 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 374  
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

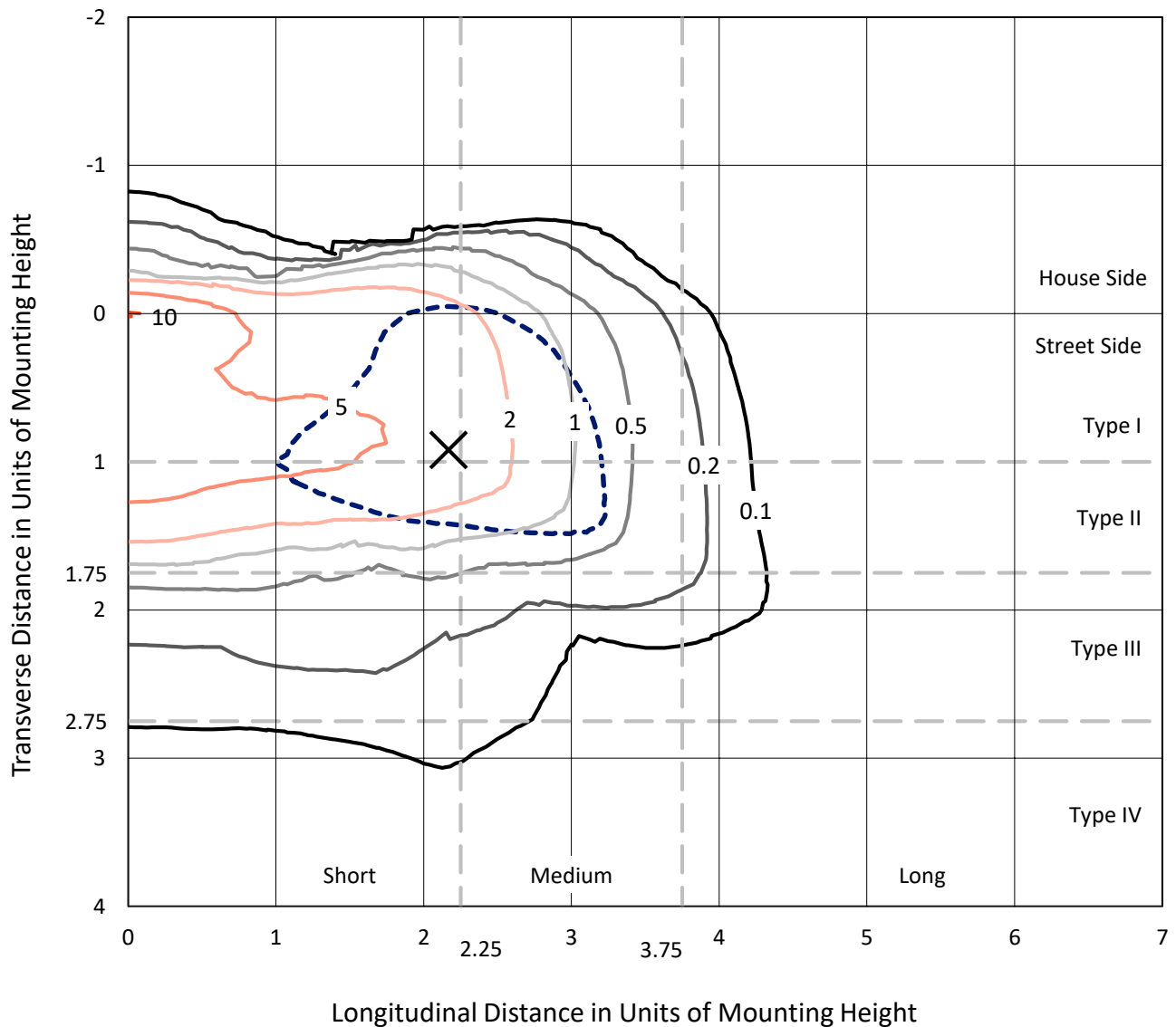


REPORT NUMBER: P193587

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

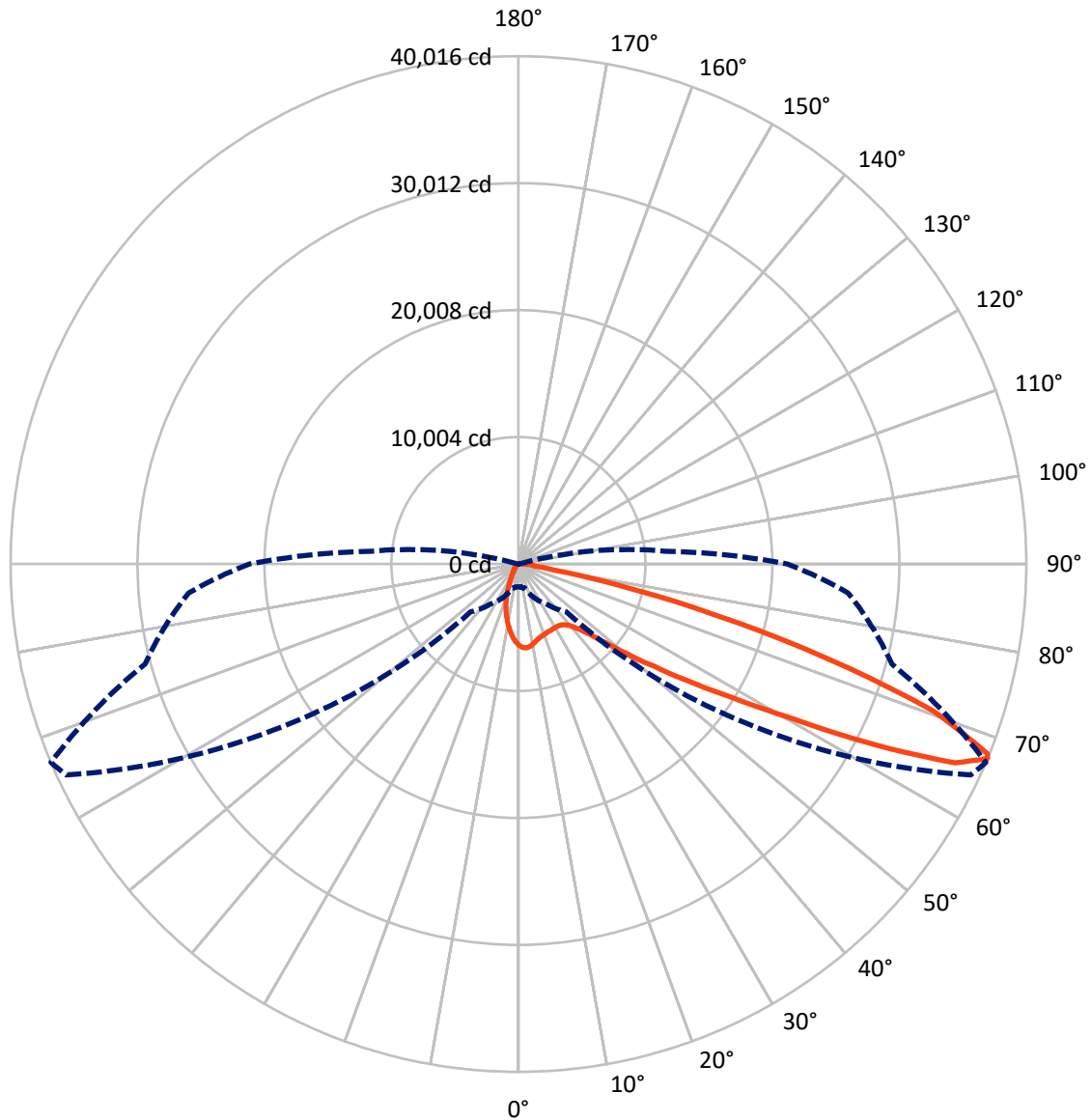


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193587

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P193587

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3017.2   | 0.0    | 3017.2  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 26041.8  | 0.0    | 26041.8 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 29059.0  | 0.0    | 29059.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 521.5   | 1.8       |
| 10°-20°   | 1109.9  | 3.8       |
| 20°-30°   | 1613.6  | 5.6       |
| 30°-40°   | 2517.3  | 8.7       |
| 40°-50°   | 4459.3  | 15.3      |
| 50°-60°   | 7056.5  | 24.3      |
| 60°-70°   | 8082.2  | 27.8      |
| 70°-80°   | 3352.4  | 11.5      |
| 80°-90°   | 346.3   | 1.2       |
| 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°    | 29059.0 | 100.0     |
| 0°-180°   | 29059.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193587

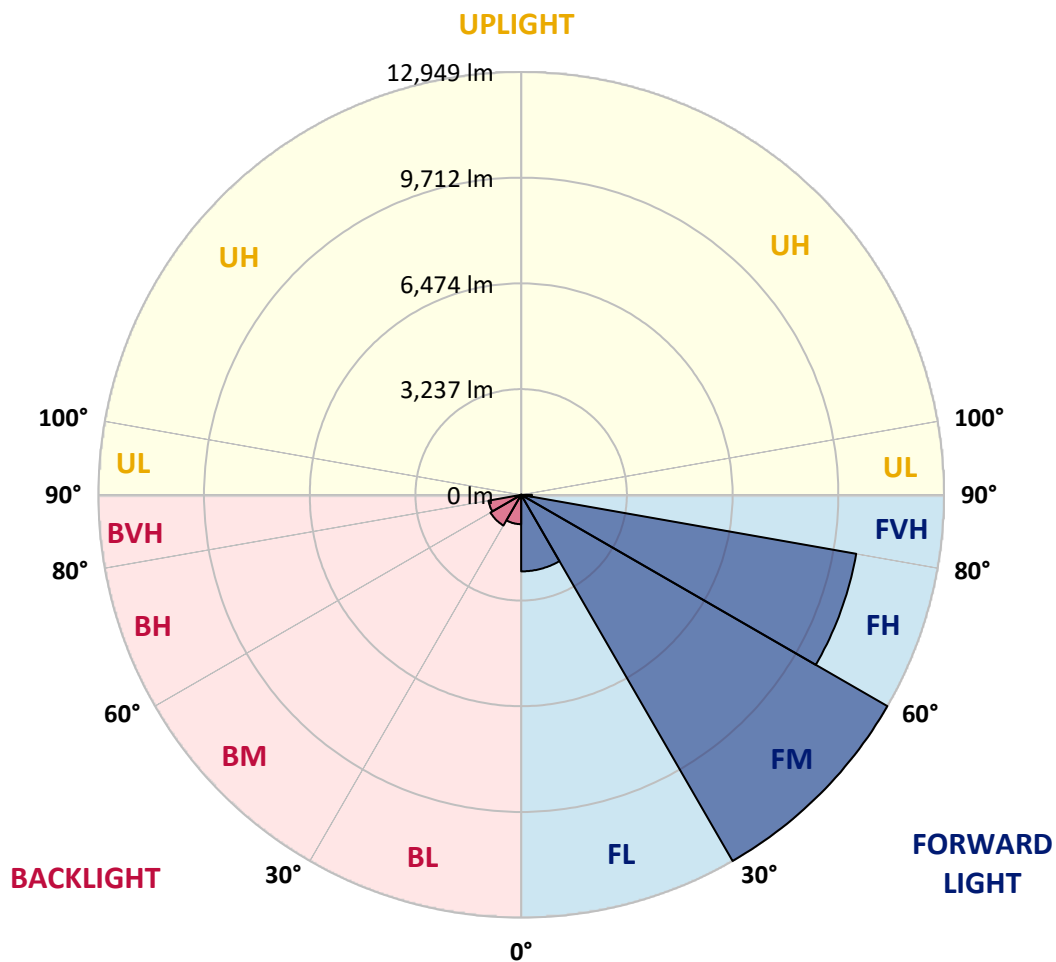
CATALOG NUMBER: GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2344.6  | 8.1       |                         |      |          |
| FM (30°-60°)   | 12948.8 | 44.6      |                         |      |          |
| FH (60°-80°)   | 10417.7 | 35.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 330.7   | 1.1       |                         |      | G3/500   |
| BL (0°-30°)    | 900.3   | 3.1       | B2/1000                 |      |          |
| BM (30°-60°)   | 1084.4  | 3.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 1016.9  | 3.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 15.6    | 0.1       |                         |      | G1/100   |
| 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 Short





REPORT NUMBER: P193587

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  | 6408.6  |
| 2.5°  | 6625.5  | 6639.1  | 6637.4  | 6647.6  | 6671.3  | 6673.0  | 6649.3  | 6603.5  | 6593.3  | 6534.0  | 6430.6  |
| 5°    | 6110.3  | 6149.3  | 6173.0  | 6269.6  | 6378.1  | 6508.6  | 6606.9  | 6642.5  | 6637.4  | 6595.0  | 6439.1  |
| 7.5°  | 5522.1  | 5561.1  | 5588.2  | 5701.8  | 5845.9  | 6069.6  | 6325.5  | 6535.7  | 6554.3  | 6600.1  | 6432.3  |
| 10°   | 5130.6  | 5137.4  | 5174.7  | 5283.1  | 5434.0  | 5662.8  | 5967.9  | 6335.7  | 6391.6  | 6559.4  | 6415.4  |
| 12.5° | 4808.6  | 4813.6  | 4862.8  | 4979.7  | 5140.8  | 5371.3  | 5691.6  | 6117.1  | 6203.5  | 6508.6  | 6412.0  |
| 15°   | 4579.7  | 4598.4  | 4642.5  | 4764.5  | 4935.7  | 5164.5  | 5493.3  | 5956.0  | 6059.4  | 6489.9  | 6442.5  |
| 17.5° | 4503.5  | 4523.8  | 4537.4  | 4625.5  | 4781.4  | 5005.2  | 5342.5  | 5850.9  | 5967.9  | 6500.1  | 6501.8  |
| 20°   | 4583.1  | 4598.4  | 4567.9  | 4589.9  | 4686.5  | 4886.5  | 5215.3  | 5761.1  | 5900.1  | 6512.0  | 6578.1  |
| 22.5° | 4879.7  | 4886.5  | 4803.5  | 4706.9  | 4689.9  | 4800.1  | 5115.3  | 5689.9  | 5839.1  | 6544.2  | 6667.9  |
| 25°   | 5388.2  | 5376.4  | 5240.8  | 5032.3  | 4835.7  | 4784.8  | 5056.0  | 5645.9  | 5808.6  | 6578.1  | 6761.1  |
| 27.5° | 6001.8  | 6018.7  | 5832.3  | 5528.9  | 5154.3  | 4886.5  | 5047.5  | 5627.2  | 5795.0  | 6601.8  | 6842.5  |
| 30°   | 6747.6  | 6771.3  | 6557.7  | 6176.4  | 5639.1  | 5137.4  | 5125.5  | 5623.8  | 5786.5  | 6586.6  | 6849.3  |
| 32.5° | 7508.6  | 7537.4  | 7369.6  | 6976.4  | 6286.5  | 5557.7  | 5301.8  | 5661.1  | 5803.5  | 6534.0  | 6810.3  |
| 35°   | 8305.2  | 8345.9  | 8234.0  | 7896.7  | 7164.5  | 6164.5  | 5612.0  | 5774.7  | 5883.2  | 6528.9  | 6771.3  |
| 37.5° | 9405.2  | 9442.5  | 9232.4  | 8874.7  | 8227.3  | 6978.1  | 6110.3  | 5988.2  | 6071.3  | 6610.3  | 6781.5  |
| 40°   | 11047.6 | 11042.6 | 10500.2 | 9952.7  | 9395.1  | 8012.0  | 6810.3  | 6374.7  | 6417.1  | 6856.0  | 6906.9  |
| 42.5° | 12837.5 | 12829.0 | 12027.3 | 11195.1 | 10691.7 | 9284.9  | 7730.6  | 7042.5  | 7013.7  | 7308.6  | 7232.3  |
| 45°   | 14217.2 | 14215.5 | 13561.2 | 12623.9 | 12252.7 | 10745.9 | 8920.5  | 7971.3  | 7927.3  | 8044.2  | 7832.3  |
| 47.5° | 14805.3 | 14815.5 | 14486.7 | 13827.4 | 13983.3 | 12722.2 | 10420.5 | 9317.1  | 9251.0  | 9203.5  | 8881.5  |
| 50°   | 14347.7 | 14368.0 | 14395.2 | 14266.3 | 15252.8 | 15378.2 | 12432.4 | 11213.7 | 11181.5 | 10969.7 | 10466.3 |
| 52.5° | 12852.8 | 12956.2 | 13274.8 | 13683.3 | 15693.5 | 17927.4 | 15586.7 | 13569.7 | 13396.8 | 13171.4 | 12617.2 |
| 55°   | 10334.1 | 10447.6 | 11052.7 | 12044.3 | 15037.5 | 19602.0 | 20007.1 | 16607.1 | 16318.9 | 15646.0 | 14846.0 |
| 57.5° | 6839.1  | 7015.4  | 7893.4  | 9154.4  | 13132.4 | 19871.5 | 24417.4 | 20822.4 | 19819.0 | 17976.6 | 17074.9 |
| 60°   | 3767.9  | 3937.4  | 4889.9  | 6032.3  | 9484.9  | 18539.3 | 27383.5 | 26310.6 | 24537.7 | 20581.7 | 19781.7 |
| 62.5° | 2320.4  | 2411.9  | 3115.3  | 4178.0  | 5688.2  | 14632.5 | 27997.1 | 33207.3 | 31154.8 | 23936.0 | 23051.2 |
| 65°   | 1847.5  | 1886.5  | 2230.5  | 3415.3  | 4078.0  | 8703.5  | 26015.7 | 38465.1 | 37780.3 | 27997.1 | 25978.4 |
| 67°   | 1793.3  | 1808.5  | 1971.2  | 2932.3  | 3844.1  | 5335.7  | 21795.3 | 39321.0 | 40015.9 | 30454.8 | 26069.9 |
| 67.5° | 1805.1  | 1822.1  | 1976.3  | 2798.4  | 3837.4  | 4903.5  | 20341.0 | 38983.7 | 39861.7 | 30649.7 | 25664.8 |
| 70°   | 1740.7  | 1793.3  | 2262.8  | 2796.7  | 3649.2  | 4074.6  | 12181.6 | 33776.8 | 34690.4 | 28478.4 | 21776.6 |
| 72.5° | 617.0   | 620.3   | 978.0   | 2262.8  | 3967.9  | 4118.7  | 6117.1  | 24761.4 | 25437.7 | 21785.1 | 15700.3 |
| 75°   | 366.1   | 311.9   | 325.4   | 644.1   | 3791.6  | 4000.1  | 3528.9  | 15822.3 | 16074.8 | 12483.3 | 7951.0  |
| 77.5° | 252.5   | 220.3   | 227.1   | 284.8   | 1444.1  | 3944.1  | 2803.4  | 8251.0  | 7981.5  | 4378.0  | 1693.2  |
| 80°   | 144.1   | 127.1   | 135.6   | 249.2   | 525.4   | 3679.7  | 2644.1  | 3345.8  | 2852.6  | 742.4   | 467.8   |
| 82.5° | 76.3    | 64.4    | 78.0    | 205.1   | 366.1   | 2293.3  | 2649.2  | 1617.0  | 1281.4  | 250.9   | 318.6   |
| 85°   | 27.1    | 22.0    | 37.3    | 140.7   | 244.1   | 703.4   | 2456.0  | 1359.3  | 1067.8  | 122.0   | 242.4   |
| 87.5° | 5.1     | 5.1     | 15.3    | 57.6    | 98.3    | 215.3   | 1452.6  | 806.8   | 540.7   | 72.9    | 166.1   |
| 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: P193587

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-8030-800-HSS-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6408.6  | 6408.6  | 6408.6 | 6408.6 | 6408.6 | 6408.6 | 6408.6 | 6408.6 | 6408.6 | 6408.6 | 6408.6 |
| 2.5°  | 6388.2  | 6315.4  | 6217.1 | 6096.7 | 5954.3 | 5828.9 | 5735.7 | 5639.1 | 5618.7 | 5584.8 | 5579.8 |
| 5°    | 6345.9  | 6220.4  | 5976.4 | 5696.7 | 5398.4 | 5128.9 | 4910.3 | 4715.3 | 4628.9 | 4554.3 | 4545.8 |
| 7.5°  | 6283.2  | 6095.0  | 5679.8 | 5228.9 | 4762.8 | 4339.1 | 3979.7 | 3725.5 | 3491.6 | 3379.7 | 3362.8 |
| 10°   | 6210.3  | 5940.8  | 5345.9 | 4720.4 | 4076.3 | 3478.0 | 2944.1 | 2496.7 | 2225.5 | 2064.4 | 2044.1 |
| 12.5° | 6142.5  | 5789.9  | 5005.2 | 4193.3 | 3337.3 | 2537.3 | 1850.9 | 1423.8 | 1139.0 | 1023.7 | 1010.2 |
| 15°   | 6110.3  | 5667.9  | 4686.5 | 3654.3 | 2564.5 | 1615.3 | 1011.9 | 783.1  | 689.8  | 662.7  | 661.0  |
| 17.5° | 6106.9  | 5564.5  | 4374.7 | 3096.7 | 1796.6 | 939.0  | 659.3  | 601.7  | 583.1  | 576.3  | 576.3  |
| 20°   | 6105.2  | 5466.2  | 4062.8 | 2518.7 | 1140.7 | 625.4  | 549.2  | 535.6  | 522.0  | 513.6  | 513.6  |
| 22.5° | 6123.8  | 5378.1  | 3737.4 | 1928.8 | 718.7  | 506.8  | 483.1  | 469.5  | 452.6  | 440.7  | 439.0  |
| 25°   | 6142.5  | 5310.3  | 3405.1 | 1372.9 | 520.3  | 440.7  | 417.0  | 398.3  | 374.6  | 359.3  | 357.6  |
| 27.5° | 6145.9  | 5225.5  | 3049.2 | 918.7  | 435.6  | 384.8  | 354.2  | 325.4  | 298.3  | 283.1  | 281.4  |
| 30°   | 6095.0  | 5083.1  | 2654.3 | 620.3  | 384.8  | 333.9  | 293.2  | 262.7  | 237.3  | 225.4  | 225.4  |
| 32.5° | 5995.0  | 4906.9  | 2220.4 | 467.8  | 342.4  | 286.4  | 242.4  | 213.6  | 196.6  | 191.5  | 189.8  |
| 35°   | 5905.2  | 4717.0  | 1774.6 | 396.6  | 306.8  | 242.4  | 198.3  | 179.7  | 169.5  | 167.8  | 166.1  |
| 37.5° | 5852.6  | 4564.5  | 1356.0 | 359.3  | 272.9  | 203.4  | 167.8  | 154.2  | 149.2  | 145.8  | 147.5  |
| 40°   | 5893.3  | 4437.4  | 1001.7 | 328.8  | 239.0  | 169.5  | 142.4  | 135.6  | 130.5  | 128.8  | 128.8  |
| 42.5° | 6071.3  | 4415.3  | 744.1  | 301.7  | 206.8  | 140.7  | 123.7  | 118.6  | 115.3  | 113.6  | 115.3  |
| 45°   | 6539.1  | 4550.9  | 578.0  | 276.3  | 174.6  | 118.6  | 105.1  | 103.4  | 101.7  | 101.7  | 101.7  |
| 47.5° | 7242.5  | 4830.6  | 481.4  | 247.5  | 145.8  | 101.7  | 91.5   | 89.8   | 88.1   | 89.8   | 89.8   |
| 50°   | 8434.0  | 5342.5  | 430.5  | 218.6  | 120.3  | 86.4   | 78.0   | 78.0   | 78.0   | 78.0   | 79.7   |
| 52.5° | 10245.9 | 6349.3  | 396.6  | 189.8  | 98.3   | 72.9   | 66.1   | 66.1   | 67.8   | 67.8   | 69.5   |
| 55°   | 12264.6 | 7684.9  | 366.1  | 161.0  | 83.1   | 61.0   | 54.2   | 55.9   | 57.6   | 59.3   | 59.3   |
| 57.5° | 14454.5 | 9164.6  | 340.7  | 132.2  | 71.2   | 49.2   | 45.8   | 47.5   | 49.2   | 52.5   | 52.5   |
| 60°   | 17096.9 | 10766.3 | 303.4  | 103.4  | 59.3   | 39.0   | 35.6   | 39.0   | 44.1   | 47.5   | 49.2   |
| 62.5° | 19998.6 | 12315.5 | 255.9  | 81.4   | 49.2   | 30.5   | 28.8   | 35.6   | 42.4   | 45.8   | 47.5   |
| 65°   | 21981.7 | 12801.9 | 196.6  | 66.1   | 37.3   | 22.0   | 23.7   | 32.2   | 40.7   | 45.8   | 45.8   |
| 67°   | 21178.3 | 11607.0 | 161.0  | 55.9   | 30.5   | 16.9   | 22.0   | 32.2   | 40.7   | 44.1   | 45.8   |
| 67.5° | 20620.7 | 11139.2 | 154.2  | 54.2   | 28.8   | 16.9   | 22.0   | 32.2   | 40.7   | 45.8   | 45.8   |
| 70°   | 16778.2 | 8367.9  | 128.8  | 40.7   | 23.7   | 15.3   | 18.6   | 30.5   | 39.0   | 44.1   | 44.1   |
| 72.5° | 11657.8 | 5159.4  | 115.3  | 28.8   | 20.3   | 13.6   | 16.9   | 28.8   | 37.3   | 42.4   | 44.1   |
| 75°   | 5542.5  | 1867.8  | 98.3   | 22.0   | 18.6   | 11.9   | 15.3   | 28.8   | 37.3   | 42.4   | 42.4   |
| 77.5° | 1130.5  | 433.9   | 79.7   | 18.6   | 15.3   | 11.9   | 13.6   | 27.1   | 35.6   | 40.7   | 40.7   |
| 80°   | 371.2   | 167.8   | 59.3   | 16.9   | 15.3   | 11.9   | 13.6   | 25.4   | 35.6   | 39.0   | 40.7   |
| 82.5° | 267.8   | 84.7    | 39.0   | 16.9   | 15.3   | 11.9   | 11.9   | 25.4   | 33.9   | 39.0   | 39.0   |
| 85°   | 205.1   | 59.3    | 25.4   | 16.9   | 15.3   | 11.9   | 11.9   | 23.7   | 32.2   | 37.3   | 37.3   |
| 87.5° | 135.6   | 23.7    | 20.3   | 16.9   | 15.3   | 11.9   | 11.9   | 23.7   | 30.5   | 35.6   | 37.3   |
| 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)