

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: P194716

Luminaire Tested: **GAN-AF-08-LED-U-T2-7060-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194716  
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: GAN-AF-08-LED-U-T2-7060-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46814 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

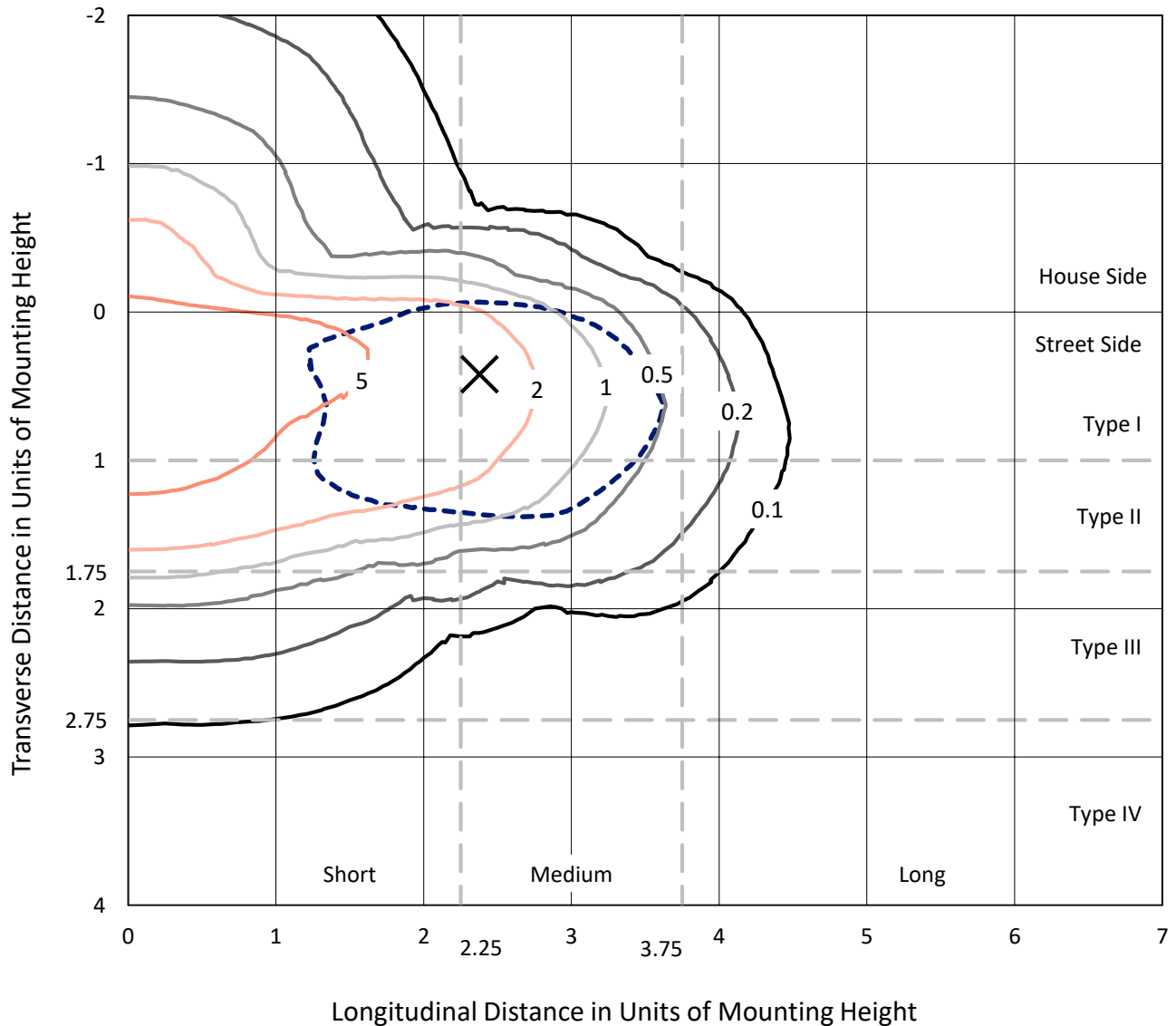
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

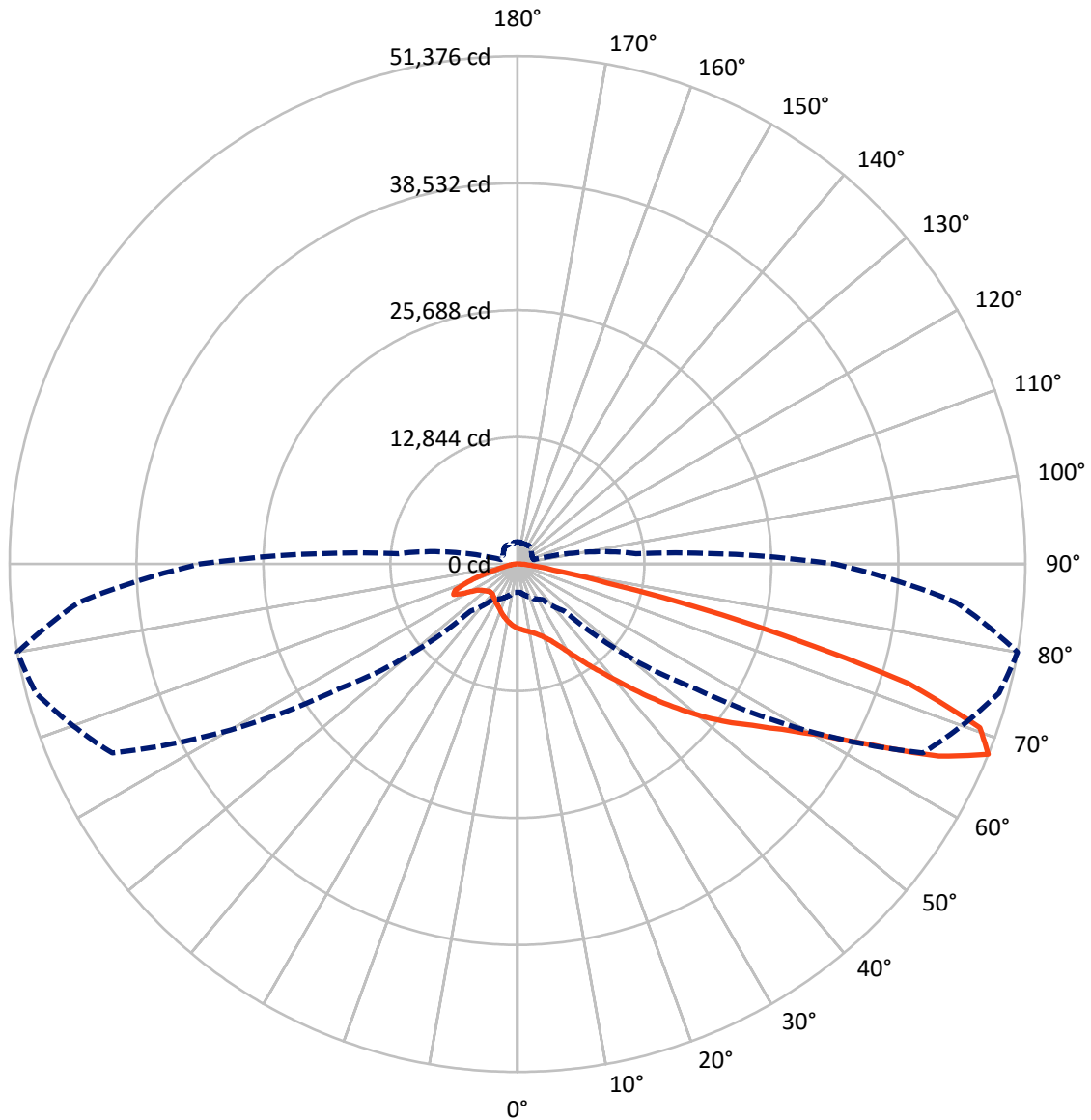
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8621.4   | 0.0    | 8621.4  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 38192.6  | 0.0    | 38192.6 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 46814.0  | 0.0    | 46814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 600.0   | 1.3       |
| 10°-20°   | 1728.3  | 3.7       |
| 20°-30°   | 2860.7  | 6.1       |
| 30°-40°   | 4679.3  | 10.0      |
| 40°-50°   | 7555.2  | 16.1      |
| 50°-60°   | 10907.6 | 23.3      |
| 60°-70°   | 12037.2 | 25.7      |
| 70°-80°   | 5548.4  | 11.9      |
| 80°-90°   | 897.4   | 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°    | 46814.0 | 100.0     |
| 0°-180°   | 46814.0 | 100.0     |



REPORT NUMBER: P194716

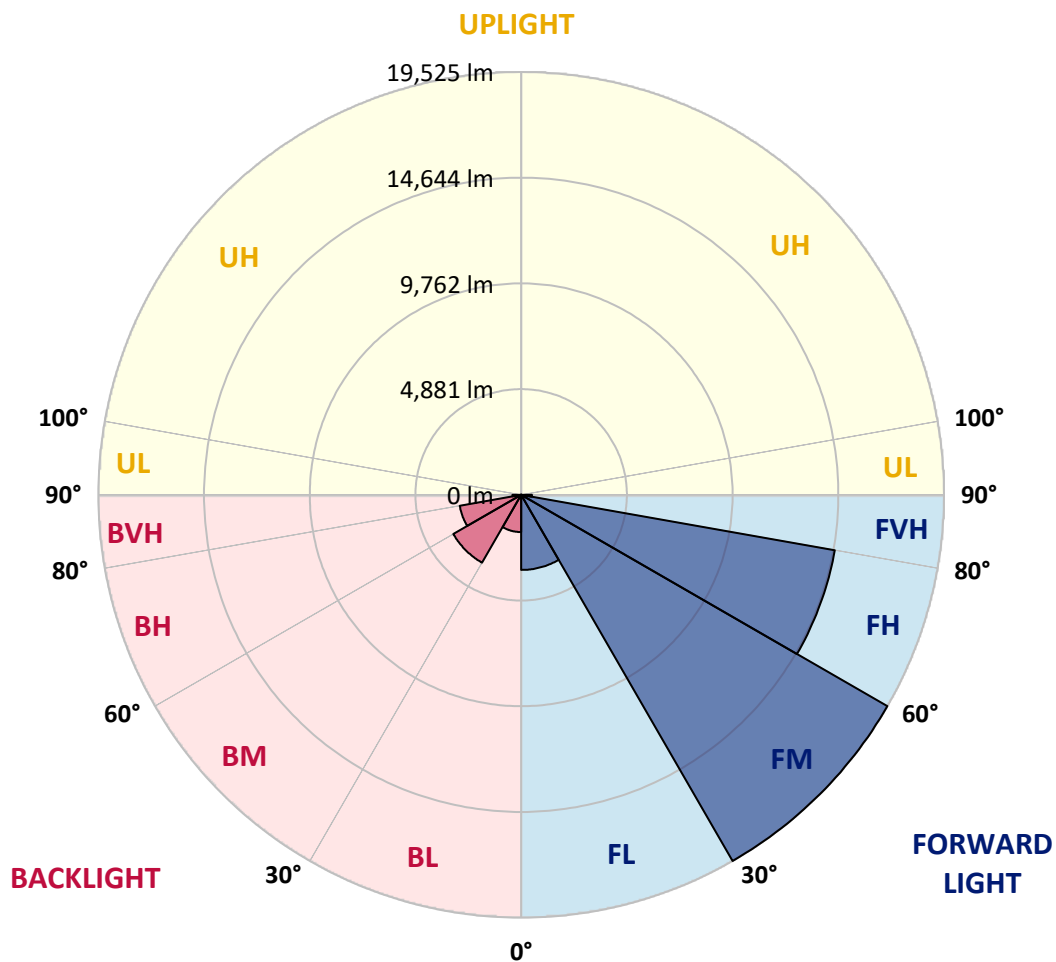
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3468.8  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 19524.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 14705.5 | 31.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 493.4   | 1.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1720.1  | 3.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3617.2  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2880.0  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 404.0   | 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: P194716

CATALOG NUMBER: GAN-AF-08-LED-U-T2-7060-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  | 6503.8  |
| 2.5°  | 7114.6  | 7073.1  | 7080.0  | 7068.5  | 7033.9  | 6974.0  | 6909.5  | 6791.9  | 6669.8  | 6605.2  | 6554.5  |
| 5°    | 7709.2  | 7697.7  | 7681.5  | 7644.6  | 7557.1  | 7432.6  | 7278.2  | 7070.8  | 6847.2  | 6729.7  | 6616.8  |
| 7.5°  | 8154.0  | 8147.1  | 8126.3  | 8103.3  | 8018.0  | 7868.2  | 7635.4  | 7340.4  | 7015.5  | 6854.1  | 6679.0  |
| 10°   | 8190.9  | 8202.4  | 8218.5  | 8280.7  | 8292.3  | 8211.6  | 7974.2  | 7617.0  | 7190.6  | 6983.2  | 6759.6  |
| 12.5° | 7877.4  | 7902.8  | 7965.0  | 8124.0  | 8292.3  | 8391.4  | 8269.2  | 7907.4  | 7395.7  | 7144.5  | 6861.1  |
| 15°   | 7462.6  | 7476.4  | 7552.5  | 7771.4  | 8073.3  | 8379.8  | 8495.1  | 8227.7  | 7660.8  | 7352.0  | 7013.2  |
| 17.5° | 7285.1  | 7292.0  | 7345.0  | 7490.2  | 7771.4  | 8209.3  | 8621.8  | 8575.7  | 7985.7  | 7610.1  | 7199.8  |
| 20°   | 7195.2  | 7211.4  | 7287.4  | 7430.3  | 7607.8  | 7990.3  | 8640.3  | 8951.4  | 8372.9  | 7932.7  | 7434.9  |
| 22.5° | 7451.1  | 7444.1  | 7471.8  | 7543.2  | 7693.0  | 7923.5  | 8626.4  | 9338.6  | 8866.1  | 8347.6  | 7741.4  |
| 25°   | 8048.0  | 8073.3  | 8024.9  | 7944.3  | 7992.7  | 8154.0  | 8700.2  | 9758.0  | 9483.8  | 8880.0  | 8142.5  |
| 27.5° | 8898.4  | 8873.0  | 8801.6  | 8612.6  | 8513.5  | 8582.7  | 8944.5  | 10209.8 | 10251.2 | 9580.6  | 8672.5  |
| 30°   | 9746.5  | 9725.8  | 9656.6  | 9426.2  | 9223.4  | 9165.7  | 9419.3  | 10728.3 | 11166.2 | 10421.8 | 9322.5  |
| 32.5° | 10626.9 | 10603.9 | 10539.3 | 10308.9 | 10064.6 | 9930.9  | 10094.5 | 11327.5 | 12244.8 | 11426.6 | 10087.6 |
| 35°   | 11712.4 | 11668.6 | 11532.7 | 11212.3 | 10972.6 | 10868.9 | 10945.0 | 12081.2 | 13489.3 | 12615.9 | 11016.4 |
| 37.5° | 12733.4 | 12800.2 | 12661.9 | 12219.4 | 11908.3 | 11871.4 | 11956.7 | 13000.7 | 14830.7 | 13945.7 | 12083.5 |
| 40°   | 13759.0 | 13770.5 | 13646.1 | 13284.2 | 12963.9 | 12903.9 | 13118.3 | 14116.2 | 16414.0 | 15535.9 | 13381.0 |
| 42.5° | 14819.1 | 14842.2 | 14632.5 | 14298.3 | 14063.2 | 14074.7 | 14319.0 | 15423.0 | 18230.1 | 17409.6 | 14874.4 |
| 45°   | 16075.2 | 16109.8 | 15879.3 | 15441.4 | 15227.1 | 15658.0 | 15556.6 | 16888.7 | 20221.3 | 19539.1 | 16589.1 |
| 47.5° | 17388.9 | 17441.9 | 17266.7 | 16856.5 | 16589.1 | 17181.4 | 16794.3 | 18513.5 | 22364.7 | 21823.1 | 18472.1 |
| 50°   | 18105.6 | 18181.7 | 18352.2 | 18322.3 | 18264.6 | 18165.5 | 18174.8 | 20255.9 | 24574.9 | 24201.5 | 20408.0 |
| 52.5° | 17720.7 | 17718.4 | 18340.7 | 19096.6 | 19903.3 | 19963.2 | 19857.2 | 22092.7 | 26639.9 | 26526.9 | 22231.0 |
| 55°   | 15960.0 | 16079.8 | 17022.4 | 18485.9 | 20689.2 | 22065.1 | 22378.5 | 24196.9 | 28668.0 | 28799.4 | 24081.7 |
| 57.5° | 13028.4 | 13127.5 | 14399.7 | 16439.3 | 19629.0 | 23314.2 | 25964.6 | 27255.2 | 30935.8 | 31548.9 | 26545.4 |
| 60°   | 8836.2  | 8956.0  | 10304.3 | 12754.1 | 16775.8 | 22618.2 | 29377.8 | 32712.7 | 33650.7 | 35045.1 | 30002.4 |
| 62.5° | 5192.5  | 5300.8  | 6400.1  | 8045.7  | 11811.5 | 19384.7 | 30875.9 | 40477.2 | 37962.8 | 40320.5 | 35275.5 |
| 65°   | 3574.6  | 3648.3  | 4183.0  | 5008.1  | 6787.3  | 13056.1 | 29018.3 | 45837.9 | 44598.0 | 46856.6 | 41389.9 |
| 67.5° | 2876.2  | 2867.0  | 3291.1  | 3853.4  | 4369.7  | 6732.0  | 21942.9 | 45231.8 | 50433.5 | 51376.1 | 44563.4 |
| 70°   | 2369.2  | 2360.0  | 2648.1  | 3113.6  | 3491.6  | 3791.2  | 11952.1 | 38170.2 | 49244.2 | 49626.8 | 41641.1 |
| 72.5° | 1982.0  | 1991.2  | 2175.6  | 2521.3  | 2864.7  | 2855.5  | 5252.4  | 26851.9 | 38739.5 | 41385.3 | 33194.4 |
| 75°   | 1673.2  | 1677.8  | 1800.0  | 2044.3  | 2325.4  | 2300.1  | 2848.6  | 14547.2 | 22519.1 | 24360.5 | 18400.6 |
| 77.5° | 1424.3  | 1428.9  | 1507.3  | 1643.2  | 1843.7  | 1834.5  | 2078.8  | 6284.9  | 9393.9  | 9278.7  | 6294.1  |
| 80°   | 1269.9  | 1269.9  | 1306.8  | 1332.1  | 1442.7  | 1401.2  | 1541.8  | 3019.1  | 3971.0  | 3666.8  | 2512.1  |
| 82.5° | 995.6   | 1000.2  | 1226.1  | 1216.9  | 1136.2  | 1083.2  | 1083.2  | 1779.2  | 2104.2  | 1945.2  | 1470.4  |
| 85°   | 560.0   | 557.7   | 790.5   | 954.1   | 1000.2  | 762.9   | 755.9   | 995.6   | 1145.4  | 1009.5  | 712.1   |
| 87.5° | 239.7   | 244.3   | 366.4   | 424.1   | 567.0   | 474.8   | 467.9   | 513.9   | 583.1   | 504.7   | 329.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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 CATALOG NUMBER: GAN-AF-08-LED-U-T2-7060-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6503.8  | 6503.8  | 6503.8 | 6503.8 | 6503.8 | 6503.8 | 6503.8 | 6503.8 | 6503.8 | 6503.8 | 6503.8 |
| 2.5°  | 6506.1  | 6446.2  | 6314.8 | 6151.2 | 6003.7 | 5906.9 | 5819.3 | 5692.6 | 5699.5 | 5611.9 | 5547.4 |
| 5°    | 6501.5  | 6377.1  | 6072.8 | 5711.0 | 5363.0 | 5111.8 | 4922.8 | 4752.3 | 4710.8 | 4630.1 | 4581.7 |
| 7.5°  | 6506.1  | 6303.3  | 5791.7 | 5213.2 | 4782.2 | 4464.2 | 4302.9 | 4213.0 | 4192.2 | 4164.6 | 4166.9 |
| 10°   | 6522.3  | 6236.5  | 5482.8 | 4747.7 | 4295.9 | 4086.2 | 4047.0 | 4074.7 | 4107.0 | 4116.2 | 4118.5 |
| 12.5° | 6559.1  | 6176.6  | 5144.1 | 4332.8 | 3991.7 | 3927.2 | 3994.0 | 4088.5 | 4150.7 | 4180.7 | 4178.4 |
| 15°   | 6642.1  | 6130.5  | 4819.1 | 4007.9 | 3823.5 | 3858.0 | 3982.5 | 4116.2 | 4206.1 | 4247.5 | 4249.8 |
| 17.5° | 6732.0  | 6063.6  | 4484.9 | 3758.9 | 3699.0 | 3786.6 | 3941.0 | 4097.7 | 4208.4 | 4254.5 | 4263.7 |
| 20°   | 6849.5  | 5980.7  | 4134.6 | 3572.3 | 3581.5 | 3680.6 | 3825.8 | 3982.5 | 4104.6 | 4143.8 | 4162.3 |
| 22.5° | 7003.9  | 5890.8  | 3828.1 | 3420.2 | 3447.8 | 3523.9 | 3636.8 | 3772.8 | 3878.8 | 3897.2 | 3913.4 |
| 25°   | 7211.4  | 5794.0  | 3583.8 | 3281.9 | 3293.4 | 3337.2 | 3413.2 | 3493.9 | 3567.7 | 3546.9 | 3563.0 |
| 27.5° | 7490.2  | 5711.0  | 3401.7 | 3155.1 | 3134.4 | 3143.6 | 3182.8 | 3208.1 | 3247.3 | 3189.7 | 3196.6 |
| 30°   | 7817.5  | 5621.1  | 3261.1 | 3044.5 | 2986.9 | 2970.7 | 2980.0 | 2993.8 | 3023.7 | 2945.4 | 2933.9 |
| 32.5° | 8197.8  | 5512.8  | 3129.8 | 2947.7 | 2867.0 | 2834.8 | 2839.4 | 2876.2 | 2991.5 | 2943.1 | 2917.7 |
| 35°   | 8640.3  | 5390.7  | 2991.5 | 2841.7 | 2786.4 | 2740.3 | 2735.7 | 2850.9 | 3194.3 | 3164.3 | 3141.3 |
| 37.5° | 9158.8  | 5268.5  | 2853.2 | 2721.8 | 2726.4 | 2675.7 | 2659.6 | 2791.0 | 3233.5 | 3115.9 | 3099.8 |
| 40°   | 9818.0  | 5204.0  | 2735.7 | 2595.1 | 2652.7 | 2645.8 | 2613.5 | 2680.4 | 2975.4 | 2761.0 | 2733.4 |
| 42.5° | 10633.8 | 5213.2  | 2648.1 | 2459.1 | 2565.1 | 2638.9 | 2588.2 | 2590.5 | 2696.5 | 2535.2 | 2509.8 |
| 45°   | 11641.0 | 5321.5  | 2585.9 | 2350.8 | 2466.0 | 2632.0 | 2578.9 | 2542.1 | 2551.3 | 2466.0 | 2452.2 |
| 47.5° | 12816.4 | 5545.1  | 2542.1 | 2260.9 | 2371.5 | 2606.6 | 2576.6 | 2528.2 | 2507.5 | 2461.4 | 2449.9 |
| 50°   | 14123.1 | 5870.0  | 2509.8 | 2175.6 | 2286.2 | 2565.1 | 2578.9 | 2514.4 | 2491.4 | 2472.9 | 2466.0 |
| 52.5° | 15406.8 | 6241.1  | 2461.4 | 2101.9 | 2219.4 | 2514.4 | 2585.9 | 2500.6 | 2475.2 | 2461.4 | 2454.5 |
| 55°   | 16838.0 | 6704.3  | 2387.7 | 2039.6 | 2164.1 | 2449.9 | 2585.9 | 2479.8 | 2452.2 | 2454.5 | 2452.2 |
| 57.5° | 18771.7 | 7453.4  | 2300.1 | 1986.6 | 2097.3 | 2371.5 | 2542.1 | 2456.8 | 2422.2 | 2424.5 | 2426.8 |
| 60°   | 21793.1 | 8773.9  | 2194.1 | 1933.6 | 2014.3 | 2279.3 | 2482.1 | 2406.1 | 2371.5 | 2380.7 | 2383.0 |
| 62.5° | 26236.6 | 10712.2 | 2055.8 | 1855.3 | 1926.7 | 2180.2 | 2399.2 | 2341.6 | 2307.0 | 2330.0 | 2330.0 |
| 65°   | 30855.1 | 12422.3 | 1885.2 | 1756.2 | 1834.5 | 2071.9 | 2295.5 | 2260.9 | 2226.3 | 2279.3 | 2277.0 |
| 67.5° | 32097.4 | 12039.7 | 1714.7 | 1647.9 | 1742.3 | 1952.1 | 2171.0 | 2152.6 | 2134.1 | 2226.3 | 2221.7 |
| 70°   | 28513.6 | 9665.9  | 1558.0 | 1537.2 | 1640.9 | 1823.0 | 2037.3 | 2037.3 | 2025.8 | 2095.0 | 2078.8 |
| 72.5° | 21724.0 | 6854.1  | 1408.2 | 1419.7 | 1525.7 | 1682.4 | 1892.1 | 1908.3 | 1889.8 | 1924.4 | 1910.6 |
| 75°   | 11629.4 | 3922.6  | 1258.4 | 1290.6 | 1382.8 | 1539.5 | 1730.8 | 1747.0 | 1735.4 | 1733.1 | 1740.0 |
| 77.5° | 3865.0  | 1917.5  | 1101.6 | 1152.3 | 1233.0 | 1392.0 | 1562.6 | 1587.9 | 1560.3 | 1555.7 | 1553.4 |
| 80°   | 1721.6  | 1205.4  | 928.8  | 995.6  | 1067.1 | 1223.8 | 1385.1 | 1405.9 | 1375.9 | 1417.4 | 1364.4 |
| 82.5° | 1106.2  | 792.8   | 744.4  | 818.2  | 887.3  | 1055.5 | 1207.7 | 1212.3 | 1184.6 | 1375.9 | 1173.1 |
| 85°   | 537.0   | 490.9   | 560.0  | 626.9  | 686.8  | 829.7  | 1000.2 | 1002.5 | 933.4  | 850.4  | 820.5  |
| 87.5° | 267.3   | 285.8   | 373.4  | 433.3  | 463.2  | 569.3  | 728.3  | 714.5  | 684.5  | 622.3  | 573.9  |
| 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)