

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: P267061

Luminaire Tested: **GAN-AF-07-LED-U-RW-7027-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-RW-7027-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24636.2 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 226  
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

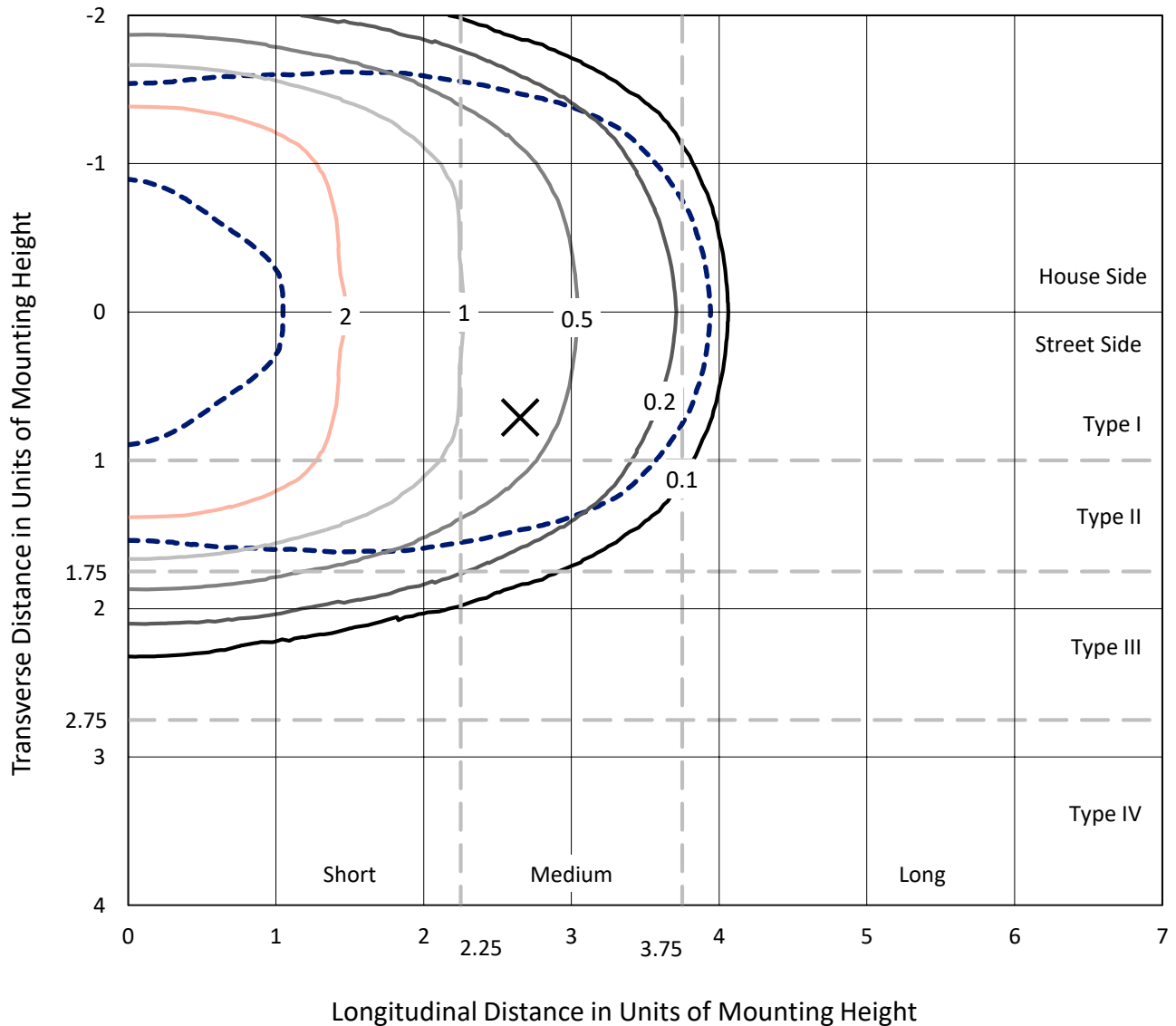


REPORT NUMBER: P267061

CATALOG NUMBER: GAN-AF-07-LED-U-RW-7027-600-ADJ

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

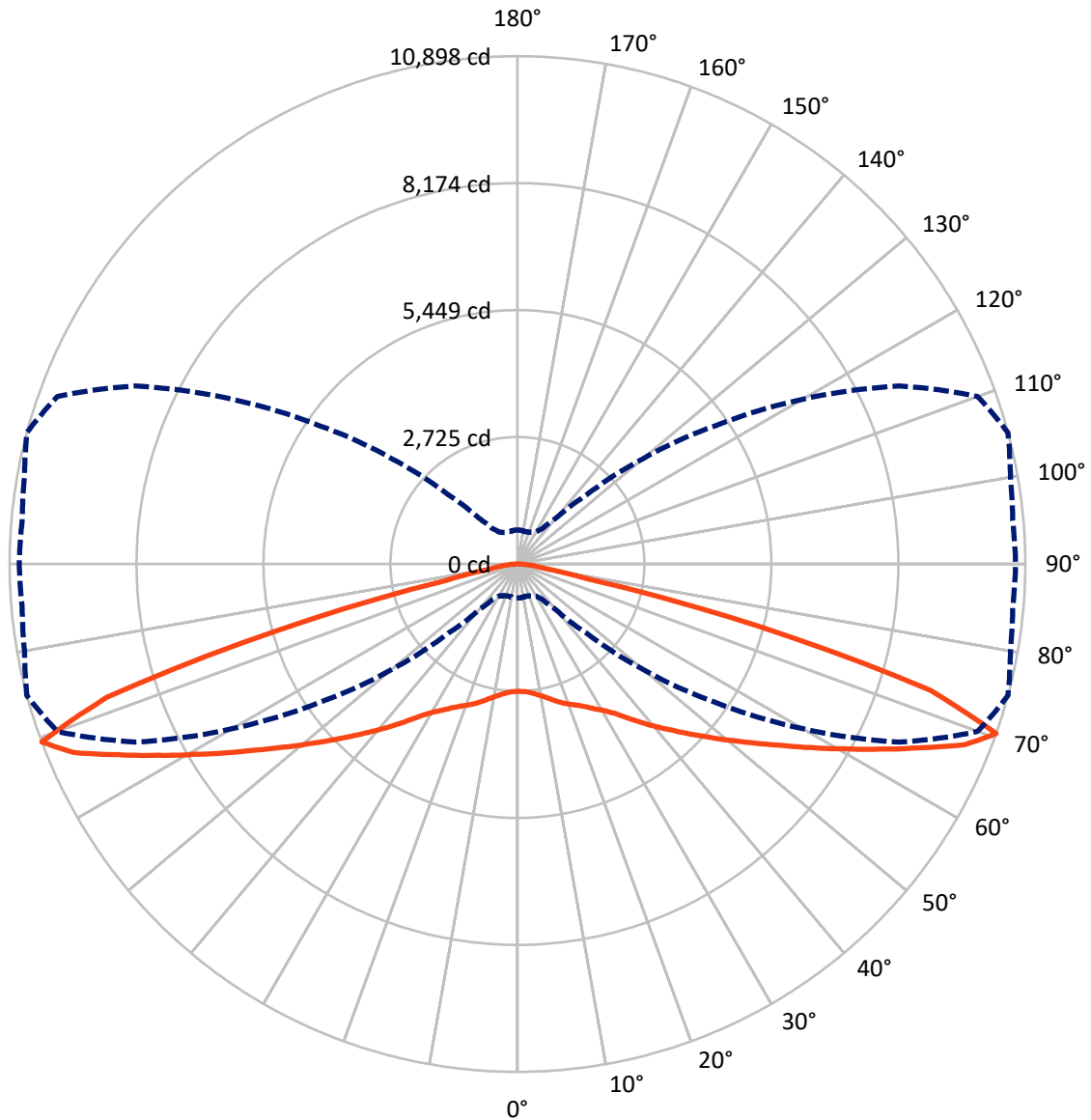


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P267061

CATALOG NUMBER: GAN-AF-07-LED-U-RW-7027-600-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P267061

CATALOG NUMBER: GAN-AF-07-LED-U-RW-7027-600-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12318.1  | 0.0    | 12318.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12318.1  | 0.0    | 12318.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24636.2  | 0.0    | 24636.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 262.1   | 1.1       |
| 10°-20°   | 814.3   | 3.3       |
| 20°-30°   | 1532.7  | 6.2       |
| 30°-40°   | 2714.2  | 11.0      |
| 40°-50°   | 4539.0  | 18.4      |
| 50°-60°   | 6325.1  | 25.7      |
| 60°-70°   | 5865.5  | 23.8      |
| 70°-80°   | 2337.6  | 9.5       |
| 80°-90°   | 245.7   | 1.0       |
| 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°    | 24636.2 | 100.0     |
| 0°-180°   | 24636.2 | 100.0     |



REPORT NUMBER: P267061

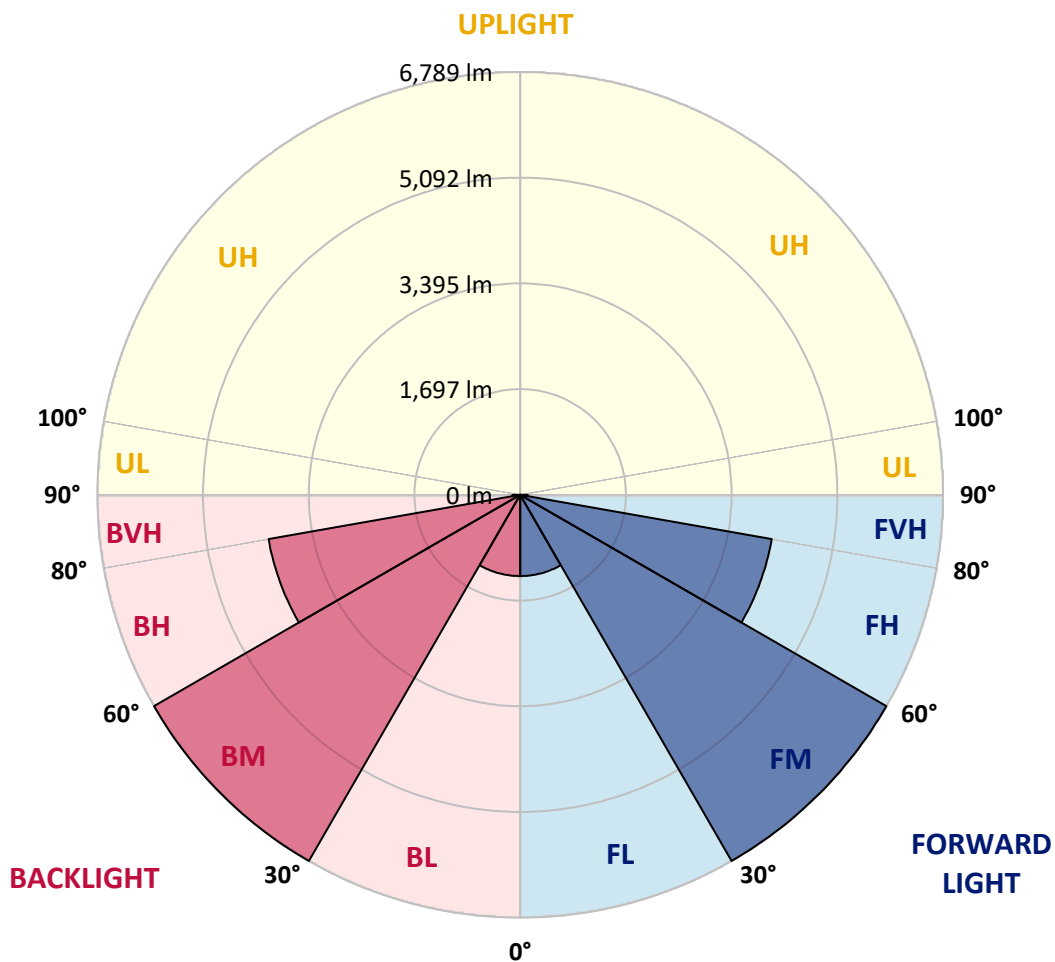
CATALOG NUMBER: GAN-AF-07-LED-U-RW-7027-600-ADJ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1304.6 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 6789.1 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 4101.5 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 122.9  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1304.6 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6789.1 | 27.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4101.5 | 16.6      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 122.9  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Medium





REPORT NUMBER: P267061

CATALOG NUMBER: GAN-AF-07-LED-U-RW-7027-600-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 | 2732.7 |
| 2.5°  | 2728.1 | 2725.7 | 2728.1 | 2727.0 | 2729.2 | 2729.2 | 2731.6 | 2736.1 | 2736.1 | 2739.7 | 2738.6 |
| 5°    | 2701.4 | 2700.1 | 2703.5 | 2707.1 | 2710.5 | 2717.6 | 2724.6 | 2735.1 | 2743.2 | 2749.1 | 2754.8 |
| 7.5°  | 2648.9 | 2648.9 | 2653.6 | 2661.7 | 2669.9 | 2684.9 | 2701.4 | 2722.3 | 2743.2 | 2760.8 | 2775.9 |
| 10°   | 2605.9 | 2608.0 | 2614.0 | 2627.9 | 2641.9 | 2665.2 | 2687.3 | 2717.6 | 2746.7 | 2775.9 | 2799.1 |
| 12.5° | 2580.2 | 2583.6 | 2594.1 | 2615.1 | 2638.4 | 2669.9 | 2703.5 | 2742.0 | 2774.7 | 2809.5 | 2832.8 |
| 15°   | 2588.3 | 2590.7 | 2605.9 | 2631.4 | 2661.7 | 2701.4 | 2746.7 | 2792.1 | 2830.5 | 2867.7 | 2899.2 |
| 17.5° | 2633.7 | 2637.2 | 2654.8 | 2683.9 | 2715.2 | 2761.7 | 2810.7 | 2862.0 | 2909.7 | 2951.7 | 2990.1 |
| 20°   | 2715.2 | 2718.8 | 2740.9 | 2772.3 | 2809.5 | 2857.2 | 2906.1 | 2959.7 | 3013.4 | 3057.7 | 3100.7 |
| 22.5° | 2830.5 | 2836.4 | 2857.2 | 2888.8 | 2930.7 | 2982.0 | 3040.1 | 3097.1 | 3148.4 | 3189.2 | 3227.6 |
| 25°   | 2982.0 | 2994.7 | 3014.5 | 3049.4 | 3093.7 | 3140.2 | 3203.1 | 3261.3 | 3310.3 | 3348.6 | 3376.5 |
| 27.5° | 3196.1 | 3213.5 | 3228.8 | 3262.6 | 3305.7 | 3349.8 | 3412.8 | 3464.0 | 3510.4 | 3547.8 | 3568.7 |
| 30°   | 3480.3 | 3497.7 | 3512.8 | 3545.4 | 3585.0 | 3626.9 | 3686.4 | 3731.6 | 3760.8 | 3789.9 | 3788.8 |
| 32.5° | 3825.0 | 3843.5 | 3849.3 | 3884.4 | 3925.1 | 3970.4 | 4024.0 | 4049.6 | 4072.8 | 4076.4 | 4055.4 |
| 35°   | 4210.3 | 4219.6 | 4242.9 | 4289.4 | 4335.9 | 4373.3 | 4424.5 | 4437.4 | 4437.4 | 4419.9 | 4373.3 |
| 37.5° | 4633.0 | 4638.8 | 4671.4 | 4723.7 | 4771.4 | 4810.0 | 4844.9 | 4870.5 | 4857.7 | 4820.5 | 4742.4 |
| 40°   | 5096.4 | 5106.9 | 5153.3 | 5200.0 | 5253.6 | 5289.6 | 5326.9 | 5331.5 | 5318.8 | 5264.0 | 5158.1 |
| 42.5° | 5538.8 | 5548.1 | 5594.7 | 5668.0 | 5738.0 | 5788.0 | 5823.0 | 5829.9 | 5789.1 | 5739.1 | 5607.5 |
| 45°   | 5919.6 | 5943.9 | 6004.5 | 6090.7 | 6191.9 | 6263.1 | 6310.8 | 6330.5 | 6294.5 | 6229.2 | 6076.8 |
| 47.5° | 6221.1 | 6245.6 | 6331.8 | 6434.2 | 6560.0 | 6675.2 | 6754.4 | 6796.2 | 6787.0 | 6738.0 | 6571.6 |
| 50°   | 6442.4 | 6465.6 | 6558.7 | 6684.5 | 6831.3 | 6974.4 | 7109.5 | 7209.6 | 7244.7 | 7222.5 | 7069.9 |
| 52.5° | 6467.9 | 6506.3 | 6615.8 | 6784.7 | 6975.6 | 7171.2 | 7363.3 | 7533.4 | 7648.6 | 7666.0 | 7553.0 |
| 55°   | 6110.5 | 6148.9 | 6300.4 | 6550.6 | 6834.8 | 7153.7 | 7461.1 | 7747.6 | 7974.7 | 8091.0 | 8031.7 |
| 57.5° | 5267.5 | 5336.2 | 5495.7 | 5789.1 | 6207.2 | 6684.5 | 7174.8 | 7683.6 | 8145.8 | 8454.3 | 8513.6 |
| 60°   | 4036.9 | 4118.3 | 4278.9 | 4591.0 | 5056.7 | 5626.2 | 6280.5 | 7032.7 | 7848.9 | 8542.8 | 8957.3 |
| 62.5° | 2589.5 | 2666.3 | 2835.2 | 3106.5 | 3486.1 | 4103.2 | 4805.3 | 5698.3 | 6795.0 | 7890.8 | 8878.2 |
| 65°   | 1330.8 | 1372.8 | 1461.3 | 1625.5 | 1921.1 | 2382.2 | 3012.1 | 3902.9 | 5156.9 | 6508.7 | 7936.2 |
| 67.5° | 843.0  | 851.1  | 870.9  | 894.3  | 969.9  | 1129.3 | 1422.8 | 1978.2 | 3009.9 | 4419.9 | 6090.7 |
| 70°   | 728.9  | 728.9  | 719.5  | 716.0  | 725.4  | 747.5  | 792.9  | 922.2  | 1270.4 | 2098.1 | 3512.8 |
| 72.5° | 667.3  | 660.2  | 643.8  | 631.1  | 628.8  | 628.8  | 638.1  | 657.9  | 713.8  | 854.6  | 1375.0 |
| 75°   | 614.8  | 594.9  | 572.8  | 557.7  | 551.9  | 546.1  | 544.9  | 548.4  | 560.1  | 582.2  | 656.8  |
| 77.5° | 550.8  | 525.1  | 499.5  | 484.4  | 477.4  | 469.3  | 462.3  | 454.2  | 448.3  | 455.3  | 487.9  |
| 80°   | 473.9  | 444.8  | 425.0  | 415.6  | 408.6  | 397.1  | 381.9  | 367.9  | 355.1  | 352.9  | 372.5  |
| 82.5° | 381.9  | 348.2  | 349.4  | 352.9  | 340.0  | 323.7  | 307.4  | 292.3  | 270.1  | 258.5  | 270.1  |
| 85°   | 308.6  | 291.1  | 283.0  | 305.1  | 286.4  | 261.9  | 236.3  | 209.6  | 174.6  | 146.8  | 159.4  |
| 87.5° | 120.0  | 120.0  | 179.3  | 276.0  | 248.0  | 202.6  | 173.6  | 148.0  | 91.9   | 71.1   | 72.3   |
| 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: P267061

CATALOG NUMBER: GAN-AF-07-LED-U-RW-7027-600-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2732.7 | 2732.7  | 2732.7  | 2732.7  | 2732.7  | 2732.7  | 2732.7  | 2732.7  |
| 2.5°  | 2737.3 | 2739.7  | 2738.6  | 2737.3  | 2737.3  | 2736.1  | 2737.3  | 2737.3  |
| 5°    | 2758.3 | 2764.2  | 2764.2  | 2766.5  | 2766.5  | 2767.7  | 2768.8  | 2767.7  |
| 7.5°  | 2789.7 | 2800.2  | 2807.3  | 2815.4  | 2816.5  | 2817.8  | 2820.0  | 2817.8  |
| 10°   | 2821.1 | 2842.1  | 2857.2  | 2872.4  | 2879.4  | 2881.8  | 2884.1  | 2884.1  |
| 12.5° | 2860.8 | 2889.8  | 2916.6  | 2943.4  | 2956.3  | 2963.2  | 2963.2  | 2967.9  |
| 15°   | 2926.0 | 2955.2  | 2986.5  | 3022.6  | 3044.7  | 3056.5  | 3059.8  | 3059.8  |
| 17.5° | 3017.9 | 3043.5  | 3070.3  | 3105.4  | 3133.3  | 3148.4  | 3152.0  | 3150.7  |
| 20°   | 3125.2 | 3149.5  | 3164.6  | 3186.7  | 3211.4  | 3228.8  | 3233.4  | 3233.4  |
| 22.5° | 3247.4 | 3261.3  | 3263.6  | 3270.6  | 3290.4  | 3313.8  | 3324.2  | 3326.6  |
| 25°   | 3382.5 | 3385.9  | 3376.5  | 3376.5  | 3389.5  | 3411.6  | 3422.1  | 3423.3  |
| 27.5° | 3557.1 | 3539.6  | 3516.3  | 3508.2  | 3516.3  | 3541.9  | 3554.8  | 3559.4  |
| 30°   | 3774.8 | 3732.8  | 3679.4  | 3650.3  | 3645.6  | 3679.4  | 3702.6  | 3706.0  |
| 32.5° | 4024.0 | 3963.4  | 3892.4  | 3833.1  | 3817.8  | 3838.8  | 3866.8  | 3865.6  |
| 35°   | 4319.7 | 4247.5  | 4161.4  | 4085.8  | 4050.7  | 4071.7  | 4111.4  | 4115.9  |
| 37.5° | 4660.9 | 4566.5  | 4467.6  | 4372.1  | 4317.4  | 4323.3  | 4365.1  | 4379.1  |
| 40°   | 5041.6 | 4919.4  | 4794.9  | 4666.8  | 4588.7  | 4573.6  | 4624.8  | 4633.0  |
| 42.5° | 5449.2 | 5291.9  | 5134.8  | 4976.4  | 4876.3  | 4853.1  | 4912.4  | 4908.9  |
| 45°   | 5883.4 | 5683.1  | 5499.2  | 5324.6  | 5205.8  | 5170.9  | 5219.8  | 5219.8  |
| 47.5° | 6350.4 | 6103.5  | 5884.5  | 5686.7  | 5557.5  | 5507.4  | 5554.0  | 5557.5  |
| 50°   | 6845.3 | 6583.1  | 6326.0  | 6105.8  | 5951.0  | 5887.0  | 5947.5  | 5956.8  |
| 52.5° | 7337.7 | 7082.7  | 6823.0  | 6571.6  | 6384.2  | 6306.1  | 6376.0  | 6406.3  |
| 55°   | 7837.3 | 7586.8  | 7339.0  | 7093.1  | 6870.9  | 6778.8  | 6853.3  | 6891.7  |
| 57.5° | 8364.7 | 8133.0  | 7896.6  | 7648.6  | 7434.4  | 7291.2  | 7370.4  | 7421.5  |
| 60°   | 8983.0 | 8785.1  | 8539.3  | 8265.8  | 8049.2  | 7903.6  | 7949.0  | 7994.5  |
| 62.5° | 9472.0 | 9548.9  | 9340.3  | 9023.7  | 8745.4  | 8559.1  | 8603.3  | 8651.0  |
| 65°   | 9235.7 | 10023.8 | 10209.0 | 9888.8  | 9503.3  | 9213.5  | 9194.8  | 9219.3  |
| 67.5° | 7719.7 | 9250.7  | 10367.3 | 10672.5 | 10349.9 | 9947.0  | 9872.6  | 9908.7  |
| 70°   | 5163.8 | 7071.1  | 9041.3  | 10508.3 | 10898.2 | 10742.3 | 10668.9 | 10691.1 |
| 72.5° | 2480.1 | 4118.3  | 6133.7  | 8084.0  | 9271.6  | 9816.6  | 9991.3  | 10076.3 |
| 75°   | 907.0  | 1634.7  | 2956.3  | 4454.8  | 5378.2  | 6225.8  | 6778.8  | 7004.8  |
| 77.5° | 547.2  | 660.2   | 944.3   | 1421.7  | 1610.3  | 1802.4  | 1727.9  | 1765.2  |
| 80°   | 405.1  | 457.5   | 518.1   | 582.2   | 603.1   | 603.1   | 579.9   | 561.3   |
| 82.5° | 284.1  | 317.9   | 346.9   | 381.9   | 391.2   | 373.8   | 307.4   | 244.5   |
| 85°   | 182.8  | 197.9   | 210.7   | 232.9   | 227.0   | 216.6   | 145.5   | 129.3   |
| 87.5° | 83.8   | 95.5    | 100.2   | 110.6   | 106.0   | 101.2   | 72.3    | 60.5    |
| 90°   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)