

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: P192934

Luminaire Tested: **GAN-AF-06-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-06-LED-U-SL4-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18412.4 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

Input Watts (W): 193  
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



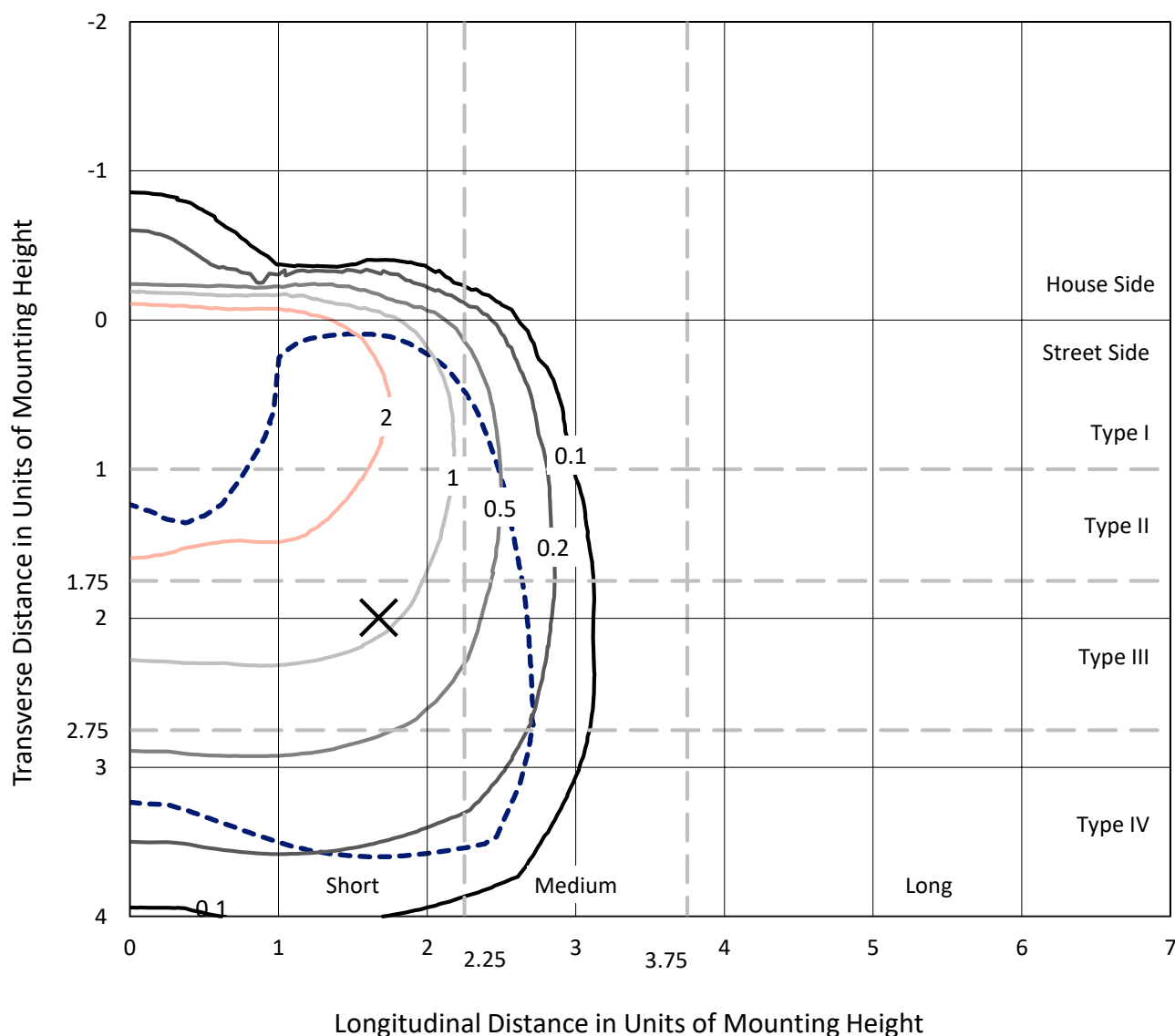
REPORT NUMBER: P192934

CATALOG NUMBER: GAN-AF-06-LED-U-SL4-7030-600-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

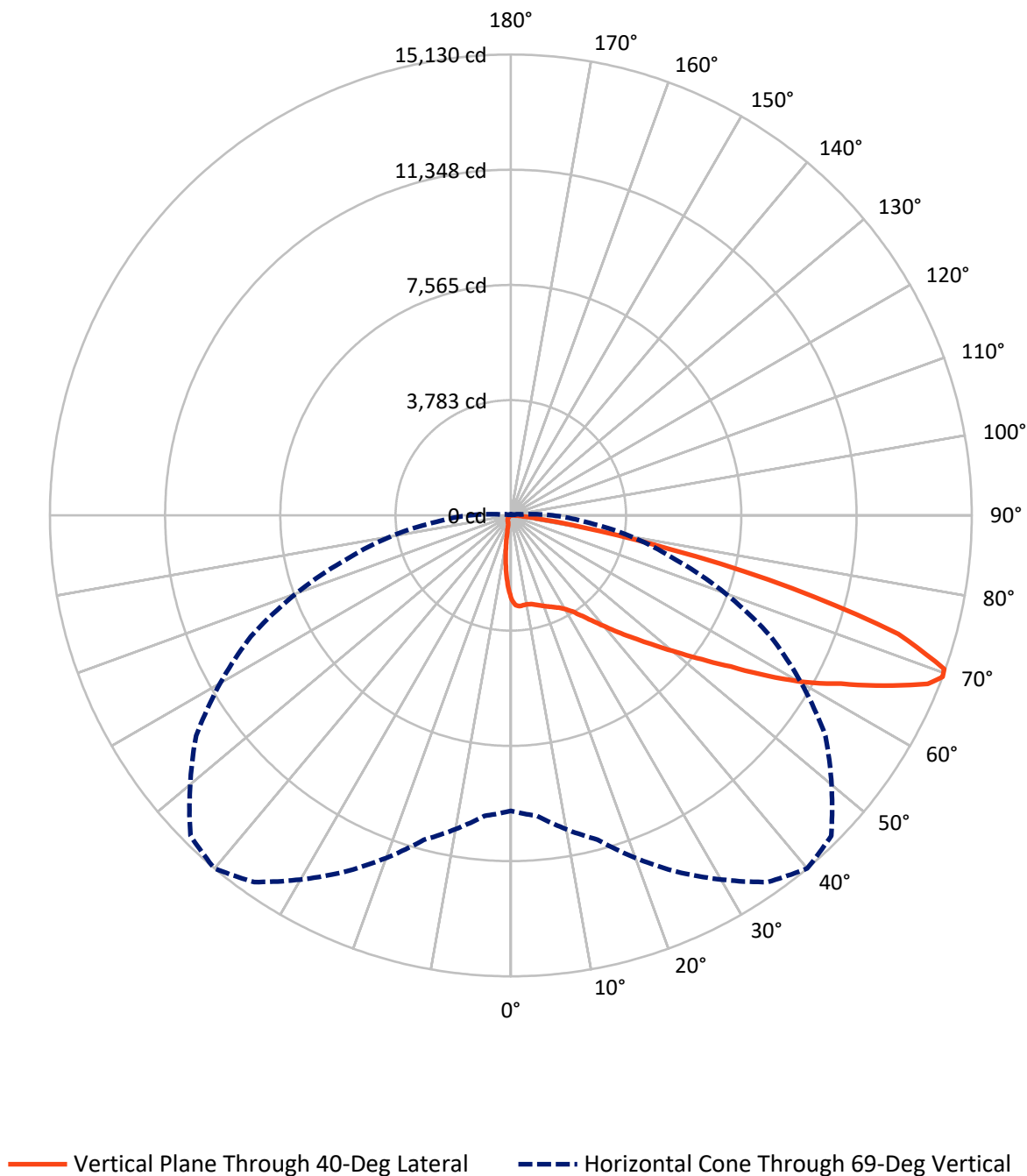


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192934

CATALOG NUMBER: GAN-AF-06-LED-U-SL4-7030-600-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P192934

CATALOG NUMBER: GAN-AF-06-LED-U-SL4-7030-600-HSS

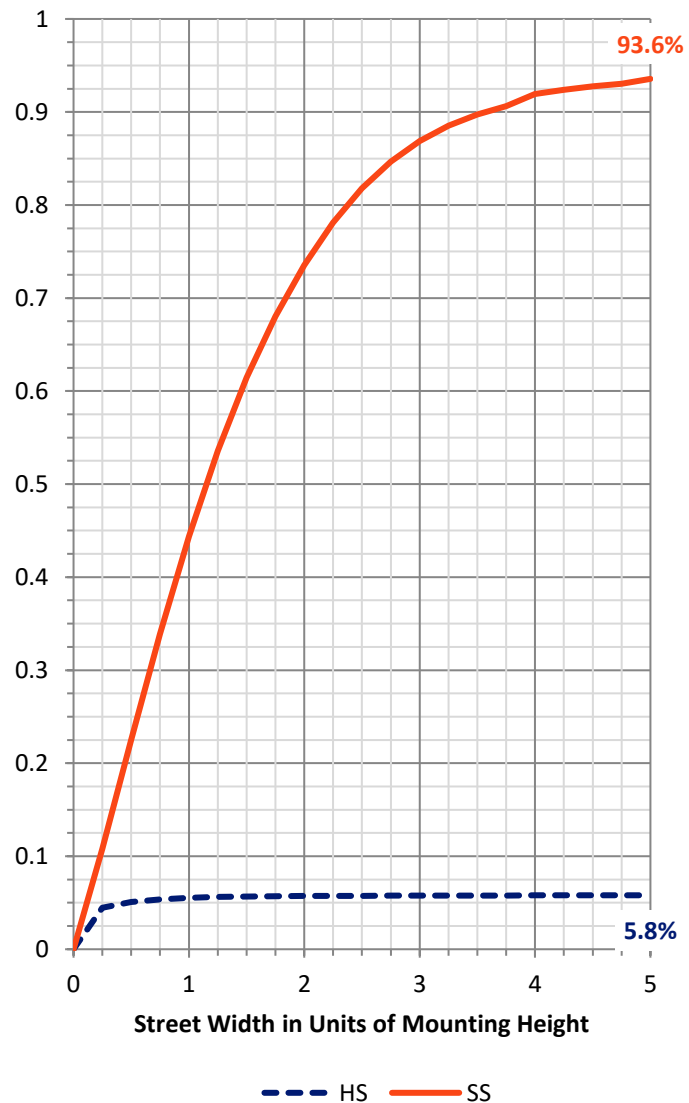
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1077.2   | 0.0    | 1077.2  |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 17335.1  | 0.0    | 17335.1 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 18412.4  | 0.0    | 18412.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 223.0   | 1.2       |
| 10°-20°   | 548.5   | 3.0       |
| 20°-30°   | 923.9   | 5.0       |
| 30°-40°   | 1512.4  | 8.2       |
| 40°-50°   | 2618.7  | 14.2      |
| 50°-60°   | 4124.7  | 22.4      |
| 60°-70°   | 5386.7  | 29.3      |
| 70°-80°   | 2774.4  | 15.1      |
| 80°-90°   | 300.1   | 1.6       |
| 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°    | 18412.4 | 100.0     |
| 0°-180°   | 18412.4 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192934

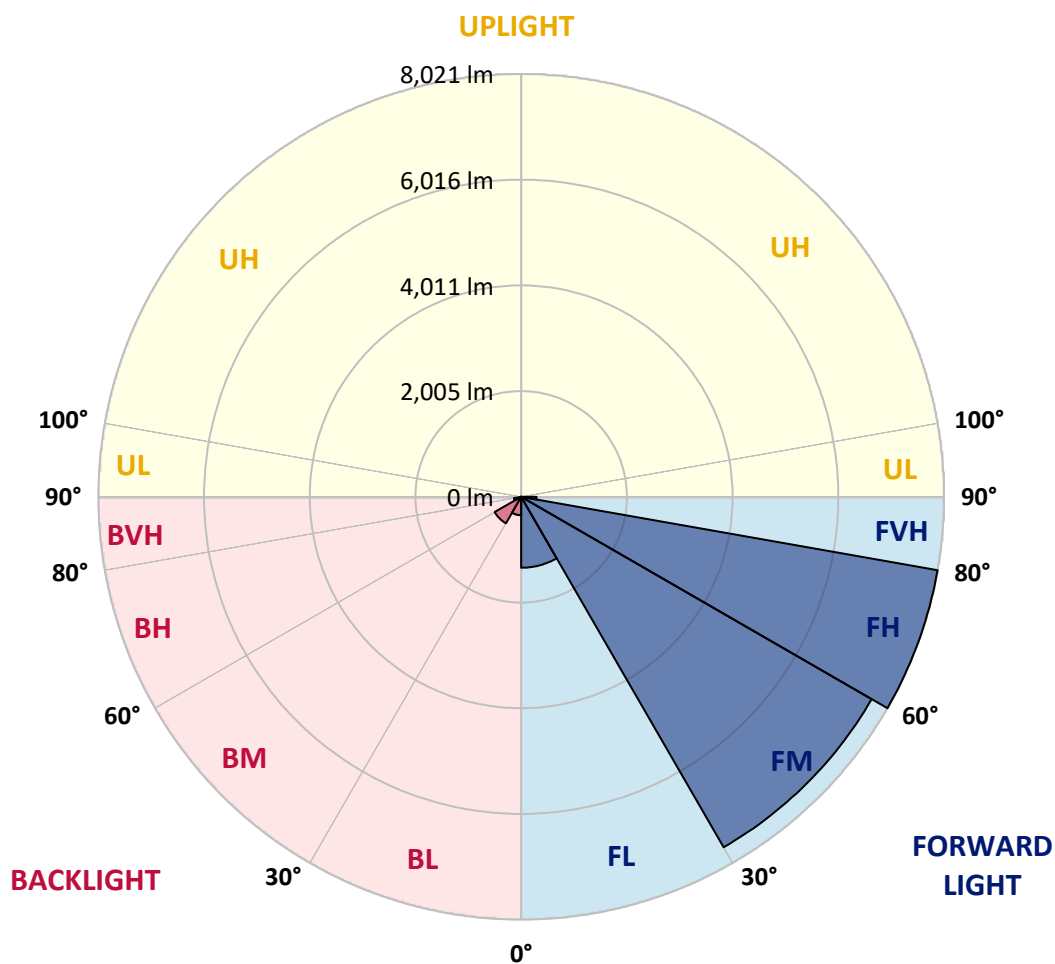
CATALOG NUMBER: GAN-AF-06-LED-U-SL4-7030-600-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1346.5 | 7.3       |                         |      |          |
| FM   | (30°-60°)   | 7676.8 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 8021.2 | 43.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 290.7  | 1.6       |                         |      | G3/500   |
| BL   | (0°-30°)    | 348.9  | 1.9       | B1/500                  |      |          |
| BM   | (30°-60°)   | 579.0  | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 139.9  | 0.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 9.4    | 0.1       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B1-U0-G4**

Type IV Short





REPORT NUMBER: P192934

CATALOG NUMBER: GAN-AF-06-LED-U-SL4-7030-600-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 2750.9 | 2750.9 | 2750.9  | 2750.9  | 2750.9  | 2750.9  | 2750.9  | 2750.9  | 2750.9  | 2750.9  | 2750.9 |
| 2.5°  | 3020.5 | 3004.1 | 2994.2  | 2981.0  | 2964.6  | 2950.3  | 2944.9  | 2904.3  | 2866.0  | 2813.4  | 2753.2 |
| 5°    | 3076.4 | 3071.0 | 3053.4  | 3035.9  | 3016.1  | 2994.2  | 2982.1  | 2933.9  | 2879.1  | 2802.4  | 2697.2 |
| 7.5°  | 3081.8 | 3075.3 | 3053.4  | 3029.3  | 3001.9  | 2975.5  | 2954.8  | 2906.6  | 2856.1  | 2778.4  | 2650.1 |
| 10°   | 3073.1 | 3065.5 | 3049.0  | 3022.6  | 2988.7  | 2963.5  | 2942.7  | 2896.7  | 2854.0  | 2783.8  | 2641.4 |
| 12.5° | 3063.3 | 3055.6 | 3047.9  | 3034.7  | 3005.1  | 2987.5  | 2970.1  | 2926.3  | 2887.9  | 2828.7  | 2673.1 |
| 15°   | 3073.1 | 3068.8 | 3077.5  | 3072.1  | 3055.6  | 3040.2  | 3022.6  | 2983.3  | 2948.2  | 2898.8  | 2731.2 |
| 17.5° | 3114.8 | 3114.8 | 3142.2  | 3145.5  | 3130.1  | 3108.2  | 3083.0  | 3043.5  | 3013.9  | 2972.3  | 2800.2 |
| 20°   | 3212.3 | 3209.1 | 3244.1  | 3250.7  | 3213.5  | 3179.5  | 3142.2  | 3093.9  | 3071.0  | 3044.6  | 2868.2 |
| 22.5° | 3380.1 | 3364.6 | 3385.5  | 3379.0  | 3305.4  | 3252.8  | 3206.9  | 3147.6  | 3135.6  | 3123.5  | 2943.8 |
| 25°   | 3598.1 | 3589.2 | 3603.6  | 3538.9  | 3409.6  | 3338.3  | 3283.6  | 3216.7  | 3216.7  | 3228.7  | 3029.3 |
| 27.5° | 3914.9 | 3882.0 | 3833.7  | 3719.7  | 3525.8  | 3434.8  | 3375.6  | 3304.3  | 3323.0  | 3367.9  | 3142.2 |
| 30°   | 4239.3 | 4203.1 | 4092.5  | 3917.1  | 3667.2  | 3571.8  | 3502.8  | 3428.2  | 3472.0  | 3554.2  | 3293.4 |
| 32.5° | 4559.3 | 4518.8 | 4361.9  | 4140.6  | 3869.9  | 3774.6  | 3707.7  | 3625.4  | 3699.0  | 3836.9  | 3514.8 |
| 35°   | 4869.4 | 4833.3 | 4652.5  | 4391.5  | 4139.5  | 4060.6  | 3999.2  | 3928.0  | 4022.3  | 4215.1  | 3827.2 |
| 37.5° | 5217.9 | 5178.5 | 4958.1  | 4675.4  | 4467.2  | 4410.2  | 4365.2  | 4294.0  | 4458.5  | 4741.2  | 4262.2 |
| 40°   | 5646.5 | 5579.7 | 5282.5  | 5000.9  | 4846.4  | 4819.0  | 4788.3  | 4778.5  | 5033.8  | 5425.0  | 4842.1 |
| 42.5° | 6137.4 | 6027.9 | 5622.4  | 5344.0  | 5262.9  | 5282.5  | 5274.9  | 5318.7  | 5753.9  | 6275.6  | 5547.8 |
| 45°   | 6628.4 | 6487.0 | 6000.5  | 5710.0  | 5721.1  | 5790.0  | 5832.8  | 6008.1  | 6655.8  | 7251.0  | 6307.3 |
| 47.5° | 7044.9 | 6905.7 | 6363.3  | 6105.7  | 6237.2  | 6373.1  | 6489.2  | 6821.4  | 7583.0  | 8211.1  | 6898.1 |
| 50°   | 7401.1 | 7269.6 | 6748.0  | 6540.8  | 6836.7  | 7055.9  | 7244.4  | 7736.5  | 8580.4  | 8942.1  | 7312.4 |
| 52.5° | 7692.6 | 7605.0 | 7146.8  | 7039.5  | 7521.7  | 7842.8  | 8118.9  | 8708.6  | 9463.7  | 9536.1  | 7634.6 |
| 55°   | 7976.5 | 7914.0 | 7575.4  | 7632.5  | 8326.1  | 8763.4  | 9113.1  | 9739.9  | 10224.4 | 10031.5 | 7943.7 |
| 57.5° | 8303.1 | 8246.2 | 8064.2  | 8384.2  | 9383.7  | 9934.0  | 10315.3 | 10654.0 | 10894.0 | 10537.8 | 8235.2 |
| 60°   | 8636.3 | 8603.4 | 8607.8  | 9219.4  | 10598.1 | 11126.3 | 11336.7 | 11424.4 | 11551.7 | 11014.5 | 8251.6 |
| 62.5° | 8954.2 | 9016.6 | 9229.2  | 10148.8 | 11760.8 | 12166.4 | 12272.8 | 12359.3 | 12210.3 | 11090.2 | 7623.6 |
| 65°   | 9492.2 | 9594.2 | 10101.7 | 11392.7 | 13040.0 | 13474.0 | 13583.5 | 13286.6 | 12314.4 | 10112.6 | 6201.0 |
| 67.5° | 9755.3 | 9941.6 | 10846.9 | 12552.2 | 14280.6 | 14762.8 | 14722.2 | 13346.8 | 11050.7 | 7711.3  | 3979.4 |
| 69°   | 9700.5 | 9898.9 | 11018.9 | 12907.4 | 14692.6 | 15130.0 | 14872.4 | 12609.2 | 9414.5  | 5586.2  | 2442.9 |
| 70°   | 9483.4 | 9684.0 | 10930.2 | 12894.1 | 14745.3 | 15091.7 | 14594.1 | 11698.5 | 7960.1  | 4084.6  | 1527.8 |
| 72.5° | 7919.5 | 8092.8 | 9703.8  | 11654.5 | 13583.5 | 13301.9 | 12209.1 | 8104.8  | 3878.7  | 1112.4  | 344.1  |
| 75°   | 4874.9 | 4971.4 | 6962.8  | 8779.8  | 10259.5 | 9536.1  | 8134.4  | 4032.1  | 1156.3  | 314.5   | 190.6  |
| 77.5° | 2575.6 | 2619.4 | 3811.8  | 5175.2  | 6503.5  | 5381.2  | 4169.2  | 1572.7  | 532.6   | 197.3   | 138.1  |
| 80°   | 1522.3 | 1555.2 | 2052.8  | 2366.2  | 2814.5  | 2350.8  | 1667.0  | 965.6   | 381.5   | 123.9   | 122.7  |
| 82.5° | 871.4  | 892.1  | 1488.3  | 1315.2  | 1109.1  | 947.0   | 829.6   | 915.1   | 229.0   | 83.2    | 127.2  |
| 85°   | 320.0  | 324.4  | 837.4   | 1000.6  | 659.8   | 392.3   | 412.1   | 758.4   | 61.4    | 52.6    | 99.8   |
| 87.5° | 149.0  | 145.8  | 430.7   | 612.6   | 385.8   | 248.8   | 321.1   | 166.6   | 24.1    | 34.0    | 27.5   |
| 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: P192934

CATALOG NUMBER: GAN-AF-06-LED-U-SL4-7030-600-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 | 2750.9 |
| 2.5°  | 2718.1 | 2677.5 | 2604.0 | 2528.4 | 2451.7 | 2392.6 | 2334.5 | 2288.4 | 2273.0 | 2244.5 | 2246.8 |
| 5°    | 2634.7 | 2560.2 | 2406.8 | 2251.2 | 2088.9 | 1955.2 | 1829.2 | 1727.3 | 1677.9 | 1627.5 | 1627.5 |
| 7.5°  | 2562.3 | 2453.9 | 2213.9 | 1960.6 | 1698.8 | 1478.5 | 1280.1 | 1131.1 | 1048.9 | 983.2  | 982.0  |
| 10°   | 2535.1 | 2388.2 | 2052.8 | 1690.0 | 1325.0 | 1024.8 | 789.1  | 637.8  | 560.1  | 509.5  | 507.4  |
| 12.5° | 2547.1 | 2365.1 | 1929.0 | 1440.1 | 982.0  | 658.8  | 457.0  | 359.5  | 326.5  | 311.3  | 311.3  |
| 15°   | 2582.2 | 2358.6 | 1805.1 | 1195.8 | 693.8  | 412.1  | 303.6  | 277.3  | 275.2  | 275.2  | 275.2  |
| 17.5° | 2624.9 | 2360.8 | 1677.9 | 957.8  | 472.3  | 294.8  | 261.9  | 258.6  | 260.8  | 260.8  | 260.8  |
| 20°   | 2668.6 | 2361.8 | 1541.0 | 737.6  | 333.1  | 256.4  | 246.6  | 245.5  | 247.7  | 247.7  | 248.8  |
| 22.5° | 2722.4 | 2367.3 | 1404.0 | 551.3  | 275.2  | 242.2  | 234.6  | 234.6  | 235.7  | 235.7  | 234.6  |
| 25°   | 2783.8 | 2378.2 | 1261.5 | 408.8  | 251.0  | 232.4  | 225.7  | 224.6  | 225.7  | 224.6  | 223.6  |
| 27.5° | 2860.5 | 2393.7 | 1102.5 | 320.0  | 240.1  | 222.5  | 217.0  | 217.0  | 215.9  | 214.8  | 213.7  |
| 30°   | 2957.0 | 2411.2 | 923.9  | 271.8  | 229.0  | 213.7  | 208.2  | 207.1  | 206.1  | 203.9  | 203.9  |
| 32.5° | 3103.8 | 2449.5 | 747.5  | 246.6  | 217.0  | 201.7  | 197.3  | 197.3  | 195.1  | 192.9  | 191.7  |
| 35°   | 3329.5 | 2525.1 | 589.7  | 231.3  | 203.9  | 188.5  | 183.0  | 183.0  | 180.9  | 179.7  | 178.6  |
| 37.5° | 3641.9 | 2640.2 | 458.2  | 217.0  | 190.6  | 174.3  | 168.8  | 167.7  | 165.5  | 163.4  | 162.2  |
| 40°   | 4057.4 | 2782.8 | 360.5  | 203.9  | 177.5  | 160.1  | 155.5  | 153.4  | 149.0  | 145.8  | 145.8  |
| 42.5° | 4578.9 | 2944.9 | 292.6  | 189.6  | 162.2  | 146.9  | 143.5  | 140.3  | 132.6  | 129.4  | 128.3  |
| 45°   | 5124.8 | 3090.6 | 247.7  | 173.1  | 146.9  | 133.8  | 131.5  | 126.0  | 116.2  | 112.9  | 112.9  |
| 47.5° | 5518.2 | 3124.6 | 218.1  | 157.8  | 132.6  | 119.4  | 118.3  | 108.5  | 99.8   | 97.6   | 96.4   |
| 50°   | 5763.8 | 3057.7 | 193.9  | 142.5  | 119.4  | 106.3  | 103.0  | 91.0   | 85.4   | 83.2   | 82.2   |
| 52.5° | 5929.3 | 2938.3 | 174.3  | 129.4  | 107.4  | 94.3   | 86.6   | 77.8   | 73.4   | 71.2   | 71.2   |
| 55°   | 6061.8 | 2769.5 | 154.5  | 117.2  | 97.6   | 84.3   | 73.4   | 66.8   | 62.5   | 60.3   | 60.3   |
| 57.5° | 6099.1 | 2540.5 | 134.8  | 107.4  | 87.6   | 74.6   | 62.5   | 58.1   | 52.6   | 51.5   | 51.5   |
| 60°   | 5828.4 | 2127.3 | 119.4  | 95.4   | 78.8   | 64.7   | 54.8   | 49.2   | 43.8   | 42.7   | 41.6   |
| 62.5° | 5115.0 | 1646.2 | 105.2  | 84.3   | 69.1   | 55.9   | 47.1   | 40.5   | 36.2   | 36.2   | 36.2   |
| 65°   | 3901.6 | 1103.6 | 92.1   | 73.4   | 60.3   | 47.1   | 40.5   | 32.9   | 30.7   | 30.7   | 31.8   |
| 67.5° | 2335.5 | 600.6  | 78.8   | 62.5   | 51.5   | 39.5   | 34.0   | 28.5   | 27.5   | 28.5   | 28.5   |
| 69°   | 1368.9 | 352.9  | 71.2   | 55.9   | 44.9   | 35.1   | 29.6   | 25.2   | 27.5   | 28.5   | 28.5   |
| 70°   | 845.0  | 237.8  | 65.8   | 50.4   | 40.5   | 31.8   | 27.5   | 24.1   | 26.3   | 27.5   | 27.5   |
| 72.5° | 235.7  | 122.7  | 52.6   | 39.5   | 32.9   | 26.3   | 22.0   | 22.0   | 25.2   | 26.3   | 26.3   |
| 75°   | 153.4  | 91.0   | 40.5   | 29.6   | 25.2   | 20.9   | 18.7   | 20.9   | 24.1   | 25.2   | 25.2   |
| 77.5° | 127.2  | 74.6   | 32.9   | 24.1   | 20.9   | 19.7   | 17.5   | 18.7   | 22.0   | 23.1   | 23.1   |
| 80°   | 116.2  | 52.6   | 26.3   | 22.0   | 18.7   | 17.5   | 16.4   | 15.3   | 19.7   | 20.9   | 20.9   |
| 82.5° | 110.7  | 41.6   | 23.1   | 19.7   | 17.5   | 15.3   | 14.2   | 15.3   | 17.5   | 18.7   | 19.7   |
| 85°   | 69.1   | 27.5   | 20.9   | 18.7   | 15.3   | 14.2   | 14.2   | 14.2   | 16.4   | 17.5   | 17.5   |
| 87.5° | 25.2   | 22.0   | 18.7   | 15.3   | 13.1   | 13.1   | 13.1   | 13.1   | 14.2   | 16.4   | 16.4   |
| 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)