

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: P266825

Luminaire Tested: **GAN-AF-04-LED-U-SL2-7027-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-SL2-7027-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13464.9 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 129  
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

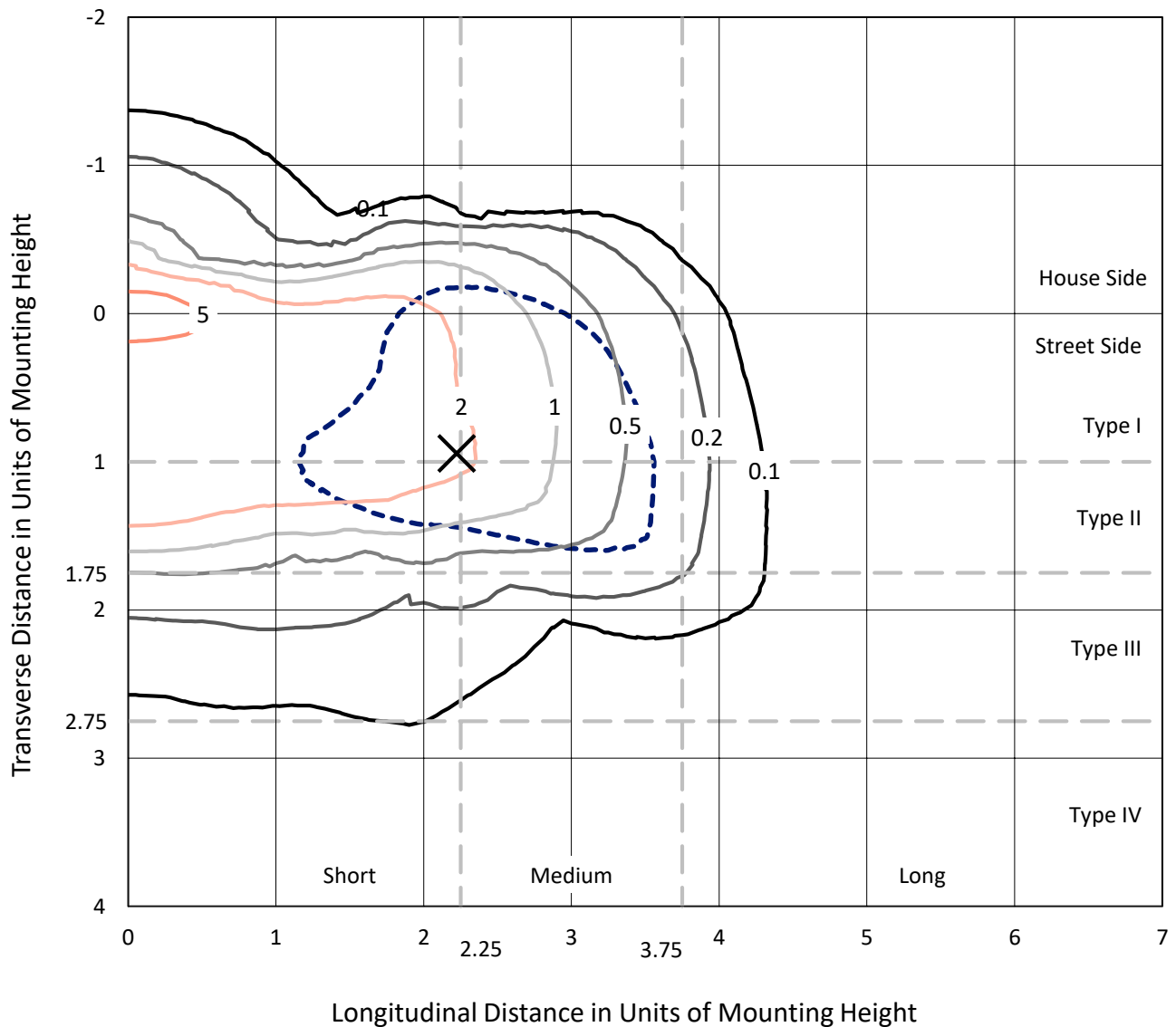


REPORT NUMBER: P266825

CATALOG NUMBER: GAN-AF-04-LED-U-SL2-7027-600-ADJ

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

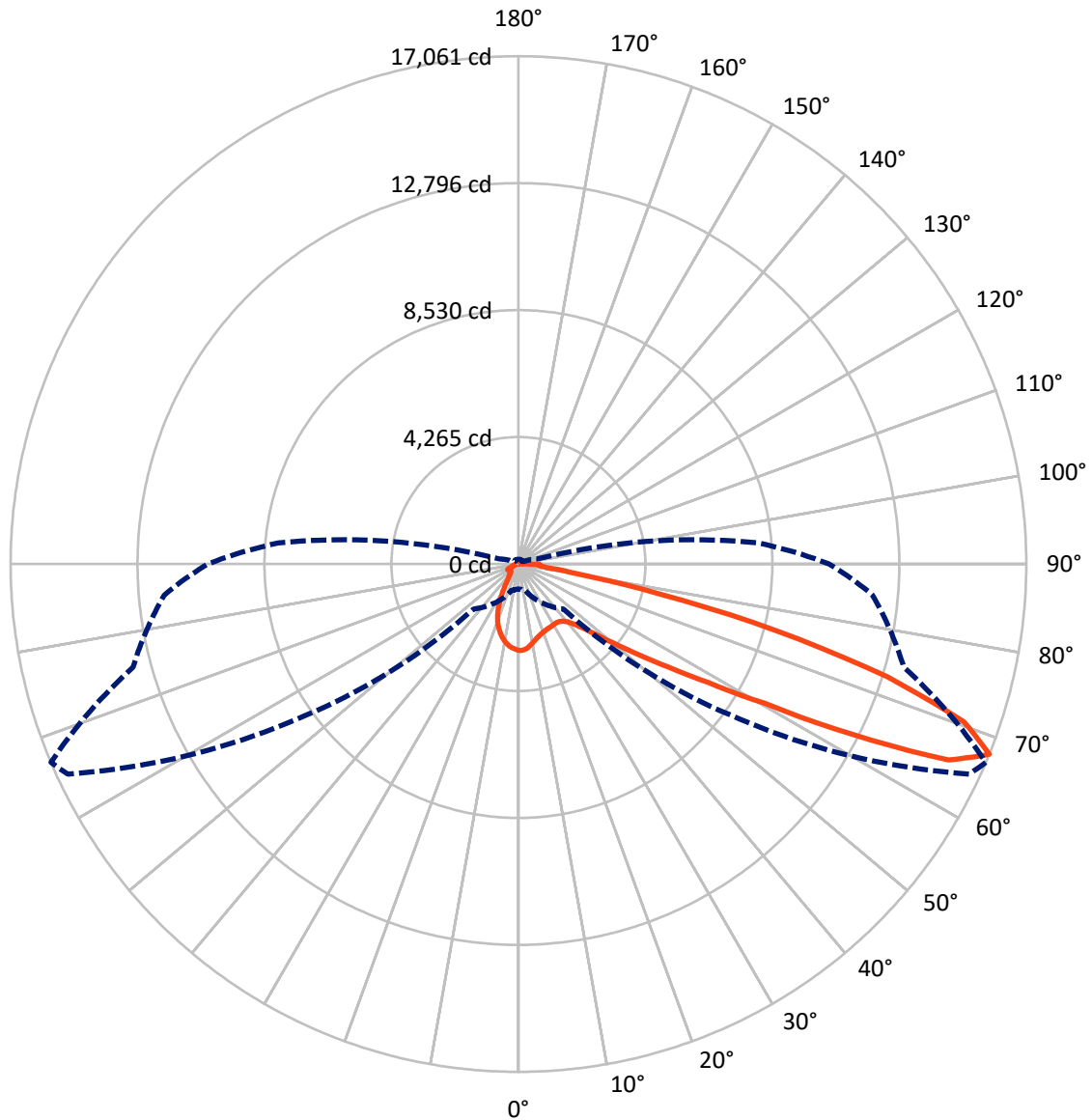


Based on 20 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P266825

CATALOG NUMBER: GAN-AF-04-LED-U-SL2-7027-600-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P266825

CATALOG NUMBER: GAN-AF-04-LED-U-SL2-7027-600-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2231.0   | 0.0    | 2231.0  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 11233.9  | 0.0    | 11233.9 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 13464.9  | 0.0    | 13464.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 247.8   | 1.8       |
| 10°-20°   | 573.3   | 4.3       |
| 20°-30°   | 777.2   | 5.8       |
| 30°-40°   | 1104.8  | 8.2       |
| 40°-50°   | 1848.4  | 13.7      |
| 50°-60°   | 2924.2  | 21.7      |
| 60°-70°   | 3725.1  | 27.7      |
| 70°-80°   | 1951.2  | 14.5      |
| 80°-90°   | 313.0   | 2.3       |
| 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°    | 13464.9 | 100.0     |
| 0°-180°   | 13464.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P266825

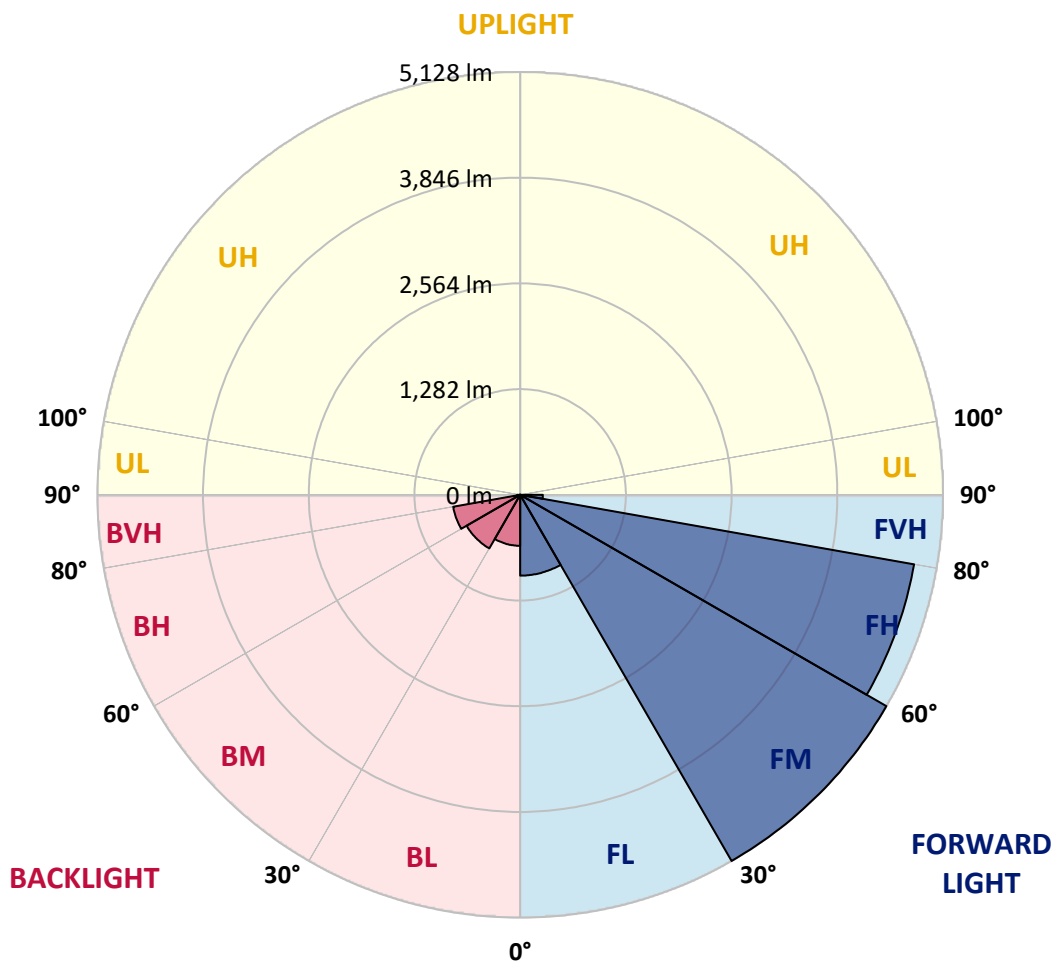
CATALOG NUMBER: GAN-AF-04-LED-U-SL2-7027-600-ADJ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 979.9  | 7.3       |                         |      |         |
| FM (30°-60°)   | 5127.7 | 38.1      |                         |      |         |
| FH (60°-80°)   | 4851.1 | 36.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 275.2  | 2.0       |                         |      | G3/500  |
| BL (0°-30°)    | 618.4  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 749.7  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 825.2  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 37.8   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short





REPORT NUMBER: P266825

CATALOG NUMBER: GAN-AF-04-LED-U-SL2-7027-600-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4  | 2904.4  | 2904.4  | 2904.4  | 2904.4  |
| 2.5°  | 2784.8 | 2789.4 | 2804.1 | 2813.4 | 2855.3 | 2873.1 | 2885.7  | 2898.4  | 2900.4  | 2906.3  | 2900.4  |
| 5°    | 2492.6 | 2502.7 | 2529.8 | 2560.3 | 2641.3 | 2705.2 | 2772.2  | 2842.0  | 2854.5  | 2899.6  | 2912.3  |
| 7.5°  | 2266.2 | 2263.5 | 2286.1 | 2322.7 | 2405.8 | 2494.1 | 2611.6  | 2750.3  | 2777.5  | 2879.1  | 2928.2  |
| 10°   | 2100.9 | 2098.9 | 2122.9 | 2160.7 | 2239.7 | 2323.3 | 2456.1  | 2646.0  | 2684.6  | 2846.5  | 2943.6  |
| 12.5° | 1978.7 | 1979.3 | 2003.3 | 2045.1 | 2125.5 | 2209.8 | 2344.5  | 2545.2  | 2594.2  | 2808.7  | 2959.5  |
| 15°   | 1897.7 | 1903.0 | 1922.4 | 1966.7 | 2045.1 | 2129.4 | 2261.7  | 2469.4  | 2524.5  | 2778.8  | 2977.4  |
| 17.5° | 1870.5 | 1879.2 | 1885.8 | 1918.3 | 1985.3 | 2069.8 | 2199.2  | 2413.7  | 2472.0  | 2758.2  | 2993.3  |
| 20°   | 1895.8 | 1905.7 | 1893.1 | 1904.3 | 1946.8 | 2021.2 | 2150.1  | 2369.8  | 2429.6  | 2735.0  | 2995.3  |
| 22.5° | 2003.9 | 2013.2 | 1976.1 | 1943.6 | 1940.9 | 1986.1 | 2109.5  | 2335.4  | 2397.0  | 2717.7  | 2995.9  |
| 25°   | 2194.5 | 2200.5 | 2138.1 | 2062.4 | 1988.7 | 1973.4 | 2081.1  | 2311.3  | 2377.2  | 2702.6  | 2983.5  |
| 27.5° | 2428.3 | 2432.9 | 2361.3 | 2249.6 | 2101.6 | 2003.3 | 2071.0  | 2297.4  | 2365.9  | 2689.3  | 2962.2  |
| 30°   | 2712.4 | 2734.4 | 2638.1 | 2497.3 | 2281.5 | 2091.7 | 2091.0  | 2290.1  | 2353.2  | 2666.7  | 2920.3  |
| 32.5° | 3003.4 | 3012.6 | 2946.3 | 2803.4 | 2523.9 | 2247.0 | 2146.7  | 2295.4  | 2349.8  | 2639.4  | 2867.2  |
| 35°   | 3298.0 | 3310.1 | 3266.9 | 3152.1 | 2855.3 | 2474.7 | 2255.6  | 2326.7  | 2370.4  | 2630.1  | 2830.0  |
| 37.5° | 3679.8 | 3695.8 | 3636.1 | 3503.3 | 3258.2 | 2783.5 | 2436.9  | 2405.0  | 2433.6  | 2656.6  | 2818.7  |
| 40°   | 4283.5 | 4276.2 | 4101.5 | 3903.7 | 3699.2 | 3178.7 | 2695.9  | 2537.8  | 2554.4  | 2742.3  | 2853.2  |
| 42.5° | 4986.0 | 4968.0 | 4667.2 | 4356.5 | 4183.9 | 3656.7 | 3038.4  | 2768.2  | 2765.0  | 2911.0  | 2974.7  |
| 45°   | 5546.4 | 5531.9 | 5261.0 | 4877.7 | 4739.6 | 4201.2 | 3481.4  | 3111.5  | 3086.9  | 3178.7  | 3199.1  |
| 47.5° | 5849.9 | 5850.5 | 5694.4 | 5381.7 | 5378.4 | 4893.1 | 4050.5  | 3608.2  | 3565.7  | 3608.9  | 3586.9  |
| 50°   | 5743.7 | 5757.5 | 5741.0 | 5641.4 | 5961.4 | 5800.0 | 4793.4  | 4300.7  | 4215.0  | 4257.5  | 4173.3  |
| 52.5° | 5229.8 | 5247.5 | 5346.0 | 5498.6 | 6206.5 | 6896.4 | 5885.1  | 5161.3  | 5061.7  | 5046.4  | 4952.9  |
| 55°   | 4318.7 | 4340.6 | 4541.1 | 4956.0 | 6002.7 | 7632.7 | 7607.4  | 6258.2  | 6099.5  | 5955.5  | 5915.6  |
| 57.5° | 2976.8 | 3013.3 | 3335.9 | 3952.2 | 5343.3 | 7855.1 | 9658.5  | 7822.0  | 7499.3  | 6996.0  | 7005.3  |
| 60°   | 1677.9 | 1720.4 | 2100.9 | 2660.7 | 4012.5 | 7613.5 | 11219.0 | 10190.5 | 9509.2  | 8214.5  | 8283.5  |
| 62.5° | 1067.0 | 1112.9 | 1401.7 | 1848.6 | 2407.6 | 6312.0 | 11858.4 | 13483.3 | 12618.1 | 9716.3  | 9784.1  |
| 65°   | 863.9  | 883.8  | 1019.9 | 1526.0 | 1748.3 | 3802.7 | 11373.1 | 16195.7 | 15873.1 | 11622.7 | 11306.6 |
| 67.5° | 843.2  | 849.9  | 920.4  | 1280.9 | 1676.5 | 2137.4 | 9071.7  | 16703.1 | 17060.9 | 13402.9 | 11940.8 |
| 70°   | 833.3  | 856.5  | 1037.2 | 1222.5 | 1605.6 | 1802.8 | 5451.5  | 15312.6 | 15877.7 | 13868.5 | 11096.9 |
| 72.5° | 404.3  | 403.1  | 521.9  | 1105.5 | 1808.7 | 1869.8 | 2800.7  | 12389.7 | 12956.8 | 12015.2 | 9118.8  |
| 75°   | 326.1  | 298.1  | 284.9  | 405.0  | 1738.9 | 1930.9 | 1784.8  | 8525.2  | 8935.5  | 8055.7  | 5605.6  |
| 77.5° | 309.5  | 276.1  | 253.1  | 253.6  | 735.1  | 2047.7 | 1511.9  | 4718.3  | 4837.9  | 3638.8  | 1535.8  |
| 80°   | 256.2  | 225.7  | 209.1  | 235.7  | 355.9  | 1950.2 | 1634.7  | 2135.5  | 1959.5  | 893.8   | 511.2   |
| 82.5° | 178.0  | 162.1  | 157.4  | 197.8  | 284.9  | 1389.8 | 1901.1  | 1147.3  | 962.2   | 447.5   | 315.5   |
| 85°   | 113.5  | 96.9   | 107.5  | 144.1  | 221.8  | 641.4  | 1958.1  | 894.4   | 711.2   | 284.3   | 178.0   |
| 87.5° | 52.5   | 42.5   | 53.1   | 79.7   | 144.7  | 221.2  | 1863.3  | 1004.7  | 732.4   | 150.0   | 112.2   |
| 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: P266825

CATALOG NUMBER: GAN-AF-04-LED-U-SL2-7027-600-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2904.4  | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 | 2904.4 |
| 2.5°  | 2905.7  | 2893.1 | 2883.1 | 2864.5 | 2843.9 | 2824.0 | 2806.0 | 2783.5 | 2776.9 | 2770.9 | 2780.2 |
| 5°    | 2915.0  | 2902.3 | 2865.9 | 2808.7 | 2745.7 | 2686.7 | 2627.5 | 2577.0 | 2545.7 | 2528.5 | 2538.5 |
| 7.5°  | 2929.0  | 2911.0 | 2835.3 | 2730.4 | 2616.9 | 2513.3 | 2406.4 | 2320.7 | 2257.6 | 2227.7 | 2236.4 |
| 10°   | 2941.5  | 2907.1 | 2783.5 | 2626.1 | 2460.2 | 2306.0 | 2137.4 | 1998.0 | 1894.3 | 1840.0 | 1853.3 |
| 12.5° | 2946.9  | 2891.7 | 2711.2 | 2496.0 | 2268.2 | 2042.4 | 1794.2 | 1585.7 | 1436.8 | 1382.4 | 1371.2 |
| 15°   | 2952.2  | 2874.4 | 2631.4 | 2347.9 | 2036.5 | 1717.1 | 1369.1 | 1119.5 | 996.0  | 968.8  | 962.9  |
| 17.5° | 2953.4  | 2844.7 | 2541.1 | 2187.3 | 1764.9 | 1330.0 | 936.3  | 777.6  | 778.2  | 821.9  | 827.3  |
| 20°   | 2939.6  | 2800.0 | 2431.6 | 1987.4 | 1439.5 | 919.7  | 642.7  | 615.5  | 715.8  | 825.4  | 838.7  |
| 22.5° | 2907.6  | 2741.0 | 2307.4 | 1754.3 | 1067.0 | 605.5  | 497.3  | 527.2  | 656.8  | 790.9  | 806.0  |
| 25°   | 2867.2  | 2669.4 | 2160.7 | 1484.1 | 706.4  | 433.0  | 417.1  | 453.6  | 541.1  | 630.8  | 639.5  |
| 27.5° | 2812.1  | 2584.3 | 1996.0 | 1174.7 | 458.9  | 356.5  | 367.1  | 391.8  | 427.7  | 467.5  | 471.4  |
| 30°   | 2741.0  | 2482.7 | 1820.1 | 856.5  | 346.7  | 320.8  | 336.0  | 349.4  | 364.5  | 387.1  | 389.1  |
| 32.5° | 2659.3  | 2385.1 | 1639.4 | 591.7  | 307.4  | 302.1  | 314.0  | 320.8  | 332.6  | 346.7  | 348.0  |
| 35°   | 2590.9  | 2292.1 | 1452.2 | 418.3  | 290.8  | 288.1  | 296.1  | 298.7  | 310.1  | 325.4  | 326.8  |
| 37.5° | 2551.7  | 2216.5 | 1259.0 | 337.4  | 279.6  | 275.6  | 280.2  | 280.2  | 296.1  | 318.7  | 322.0  |
| 40°   | 2554.4  | 2174.5 | 1065.7 | 304.7  | 270.2  | 264.9  | 265.5  | 265.5  | 286.2  | 310.8  | 312.7  |
| 42.5° | 2626.9  | 2185.2 | 894.4  | 292.2  | 262.9  | 256.9  | 253.6  | 255.7  | 272.9  | 288.9  | 290.2  |
| 45°   | 2796.9  | 2260.2 | 733.7  | 284.3  | 255.7  | 253.6  | 246.3  | 245.6  | 252.3  | 259.6  | 259.6  |
| 47.5° | 3075.6  | 2408.4 | 624.9  | 278.8  | 249.6  | 249.0  | 240.3  | 231.8  | 231.0  | 233.6  | 233.6  |
| 50°   | 3529.3  | 2663.4 | 551.7  | 272.9  | 245.6  | 240.3  | 230.4  | 217.1  | 212.4  | 214.4  | 214.4  |
| 52.5° | 4209.1  | 3118.1 | 523.9  | 264.9  | 237.1  | 228.3  | 217.1  | 203.8  | 199.9  | 200.5  | 200.5  |
| 55°   | 5100.8  | 3816.7 | 519.8  | 255.7  | 227.8  | 213.7  | 204.5  | 194.6  | 189.9  | 191.2  | 191.2  |
| 57.5° | 6190.5  | 4782.8 | 590.9  | 241.0  | 215.1  | 199.2  | 193.9  | 187.2  | 184.0  | 185.9  | 185.3  |
| 60°   | 7515.2  | 6047.1 | 876.4  | 225.7  | 202.5  | 185.9  | 185.9  | 180.6  | 178.0  | 179.9  | 179.3  |
| 62.5° | 9041.1  | 7499.3 | 1232.4 | 214.4  | 189.3  | 175.3  | 178.0  | 175.3  | 172.7  | 174.0  | 173.4  |
| 65°   | 10394.3 | 8445.4 | 1154.1 | 205.8  | 176.0  | 165.4  | 170.0  | 168.6  | 166.6  | 168.1  | 167.4  |
| 67.5° | 10433.5 | 8094.8 | 648.0  | 196.5  | 163.3  | 155.3  | 162.1  | 161.3  | 160.0  | 161.3  | 160.6  |
| 70°   | 9311.3  | 6835.3 | 365.3  | 179.3  | 150.0  | 143.4  | 152.7  | 152.1  | 150.7  | 153.4  | 152.7  |
| 72.5° | 7460.1  | 4960.1 | 266.9  | 158.0  | 136.8  | 130.9  | 141.5  | 140.8  | 140.8  | 144.7  | 142.8  |
| 75°   | 4292.8  | 2552.4 | 213.2  | 135.5  | 122.9  | 118.1  | 127.5  | 128.2  | 129.4  | 134.7  | 130.9  |
| 77.5° | 1223.9  | 795.4  | 174.0  | 114.9  | 105.6  | 103.6  | 112.8  | 114.3  | 114.9  | 120.8  | 115.5  |
| 80°   | 454.8   | 366.5  | 143.4  | 96.3   | 86.2   | 87.0   | 95.6   | 97.6   | 98.3   | 104.3  | 97.6   |
| 82.5° | 290.2   | 241.7  | 116.2  | 74.4   | 67.7   | 67.1   | 77.8   | 80.4   | 80.4   | 80.9   | 77.1   |
| 85°   | 169.3   | 144.7  | 87.7   | 53.8   | 47.8   | 45.9   | 57.9   | 62.4   | 60.5   | 59.1   | 56.5   |
| 87.5° | 113.5   | 99.6   | 53.8   | 29.9   | 26.0   | 24.6   | 33.9   | 37.2   | 35.8   | 33.9   | 31.9   |
| 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)