

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: P267255

Luminaire Tested: **GAN-AF-09-LED-U-SLR-7027-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
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-SLR-7027-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44571 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 575  
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



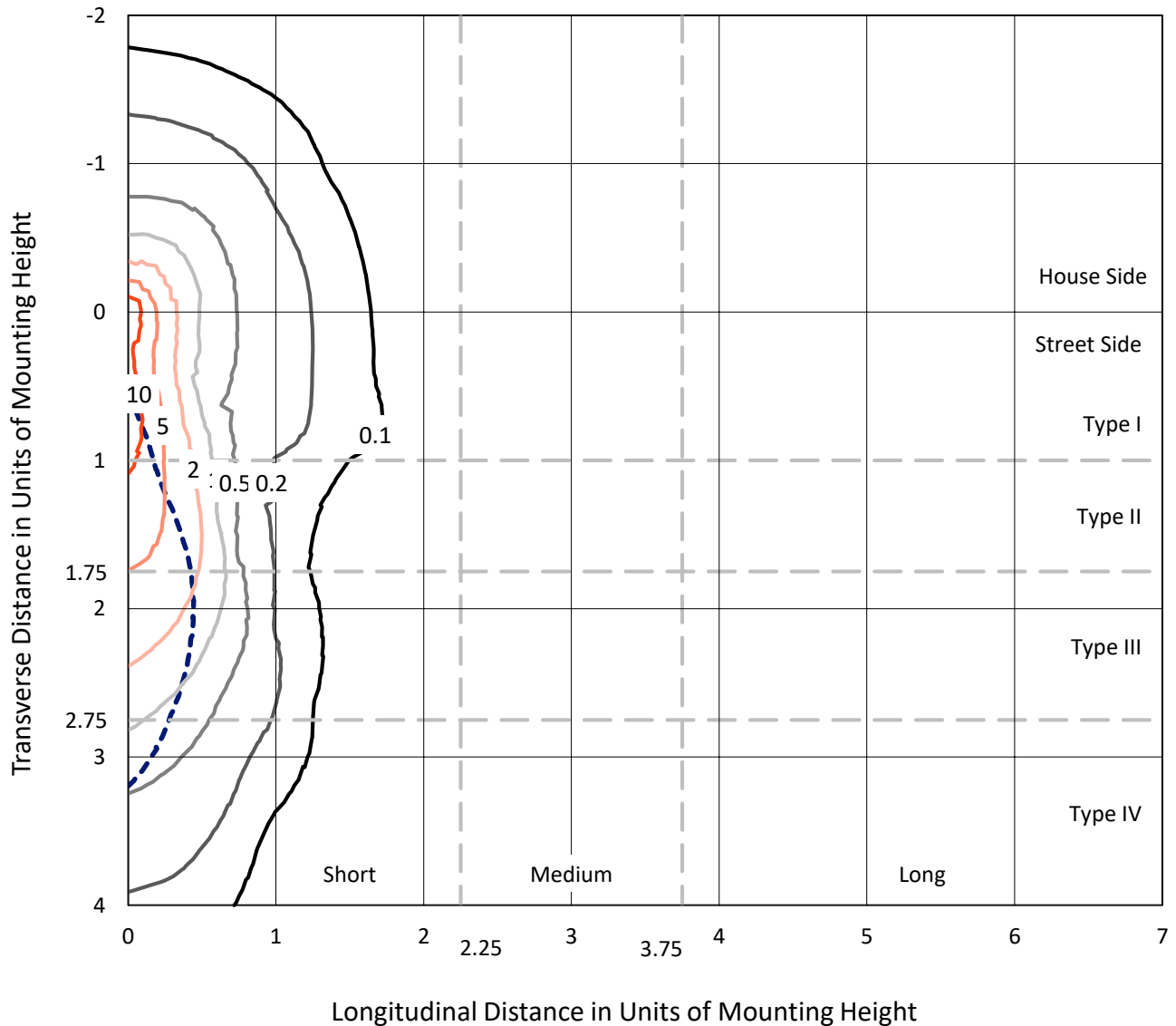


REPORT NUMBER: P267255

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

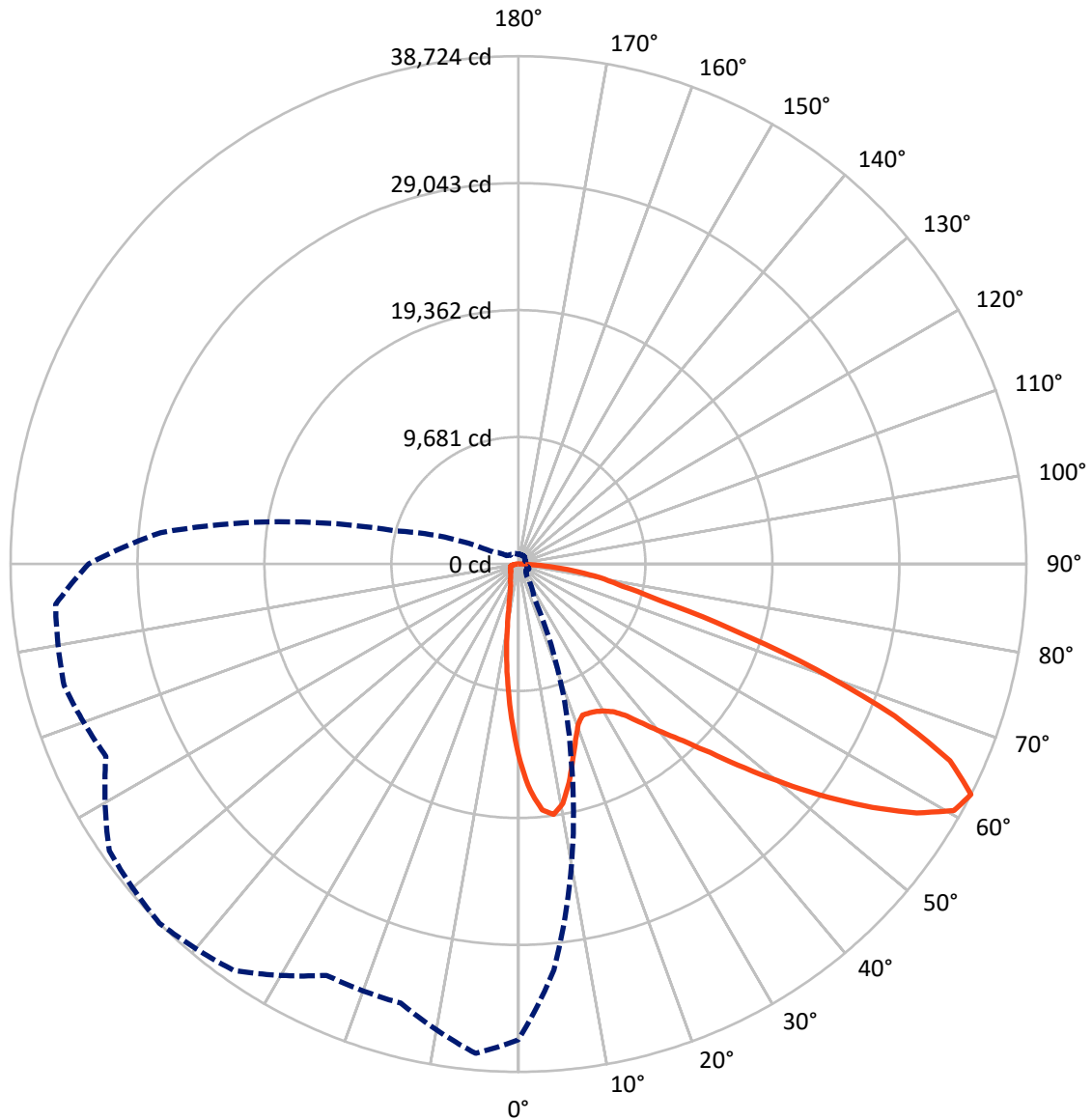


Based on 30 foot mounting height. Maximum calculated value = 16.7 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P267255

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P267255

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7375.9   | 0.0    | 7375.9  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 37195.1  | 0.0    | 37195.1 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 44571.0  | 0.0    | 44571.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1096.2  | 2.5       |
| 10°-20°   | 2010.1  | 4.5       |
| 20°-30°   | 2930.7  | 6.6       |
| 30°-40°   | 4513.8  | 10.1      |
| 40°-50°   | 6643.1  | 14.9      |
| 50°-60°   | 9744.0  | 21.9      |
| 60°-70°   | 10892.4 | 24.4      |
| 70°-80°   | 5332.8  | 12.0      |
| 80°-90°   | 1408.0  | 3.2       |
| 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°    | 44571.0 | 100.0     |
| 0°-180°   | 44571.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P267255

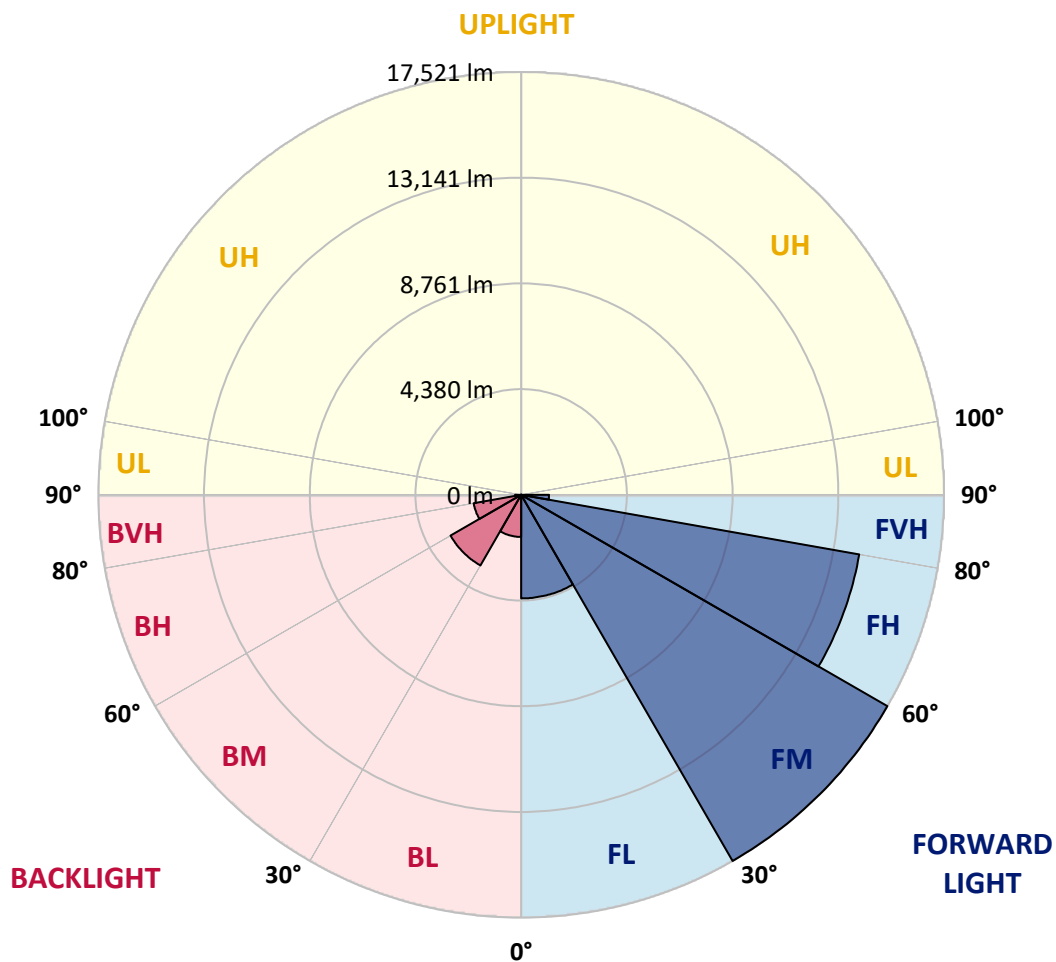
CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4292.0  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 17521.3 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 14225.5 | 31.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 1156.3  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 1745.0  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3379.6  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1999.6  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 251.7   | 0.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P267255

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 |
| 2.5°  | 15646.5 | 15328.0 | 14798.8 | 14247.5 | 13911.8 | 13519.9 | 13213.6 | 12944.0 | 12405.1 | 12299.7 | 12395.3 |
| 5°    | 14713.0 | 14073.6 | 13076.4 | 12071.9 | 11402.9 | 10685.0 | 10126.5 | 9678.0  | 8994.4  | 8874.4  | 9019.0  |
| 7.5°  | 13216.0 | 12451.5 | 11133.5 | 9852.0  | 8906.2  | 8009.5  | 7406.7  | 6926.6  | 6392.3  | 6162.1  | 6176.7  |
| 10°   | 11924.8 | 11062.4 | 9504.1  | 8109.9  | 7335.6  | 6730.6  | 6223.4  | 5730.8  | 5189.4  | 4834.0  | 4736.1  |
| 12.5° | 11202.0 | 10209.6 | 8413.7  | 7169.1  | 6451.2  | 5814.2  | 5267.8  | 4741.1  | 4162.7  | 3800.2  | 3697.2  |
| 15°   | 11077.0 | 9998.9  | 8004.5  | 6566.3  | 5667.1  | 4861.1  | 4216.6  | 3628.7  | 3033.2  | 2739.2  | 2677.9  |
| 17.5° | 11618.5 | 10376.3 | 7872.2  | 6029.8  | 4929.7  | 3934.9  | 3143.4  | 2486.9  | 2001.8  | 1854.7  | 1842.6  |
| 20°   | 12657.4 | 11101.6 | 7855.0  | 5525.0  | 4202.0  | 3035.7  | 2190.3  | 1712.7  | 1499.5  | 1457.8  | 1460.3  |
| 22.5° | 14115.2 | 12226.1 | 8065.8  | 5145.3  | 3533.0  | 2263.9  | 1646.6  | 1433.3  | 1350.1  | 1310.8  | 1310.8  |
| 25°   | 16001.8 | 13774.6 | 8551.0  | 4868.5  | 2952.4  | 1808.2  | 1452.9  | 1325.4  | 1247.0  | 1220.2  | 1225.1  |
| 27.5° | 17829.6 | 15281.4 | 9114.6  | 4650.3  | 2572.7  | 1641.7  | 1377.0  | 1261.8  | 1193.2  | 1166.3  | 1178.4  |
| 30°   | 19255.6 | 16619.3 | 9584.9  | 4353.8  | 2379.2  | 1595.0  | 1404.0  | 1286.4  | 1188.3  | 1146.6  | 1149.1  |
| 32.5° | 20436.5 | 17790.5 | 9979.5  | 4140.6  | 2207.6  | 1367.2  | 1210.3  | 1159.0  | 1146.6  | 1097.6  | 1073.1  |
| 35°   | 21945.9 | 19067.0 | 10244.0 | 4145.6  | 2126.6  | 1220.2  | 1078.1  | 987.3   | 921.2   | 864.9   | 864.9   |
| 37.5° | 23714.8 | 20532.1 | 10525.8 | 4202.0  | 2097.4  | 1134.4  | 1031.6  | 940.9   | 879.6   | 825.7   | 815.9   |
| 40°   | 25464.3 | 21968.0 | 10783.1 | 4255.9  | 2080.1  | 1082.9  | 994.8   | 911.4   | 855.0   | 801.2   | 786.5   |
| 42.5° | 26951.4 | 23148.9 | 11013.3 | 4282.8  | 2021.4  | 1078.1  | 967.8   | 891.8   | 837.9   | 779.1   | 764.5   |
| 45°   | 28051.6 | 24138.6 | 11260.9 | 4324.5  | 1962.5  | 1097.6  | 967.8   | 889.4   | 823.2   | 767.0   | 752.2   |
| 47.5° | 29033.9 | 25300.0 | 11674.8 | 4324.5  | 1891.6  | 1060.9  | 999.6   | 891.8   | 820.8   | 762.0   | 749.7   |
| 50°   | 30349.7 | 26892.6 | 12459.0 | 4224.0  | 1791.0  | 1021.7  | 1053.5  | 882.0   | 798.8   | 752.2   | 737.5   |
| 52.5° | 32162.8 | 28933.6 | 13703.6 | 4050.1  | 1636.7  | 945.7   | 1046.2  | 877.1   | 776.7   | 727.6   | 710.5   |
| 55°   | 34306.7 | 31119.2 | 15061.0 | 3846.7  | 1406.3  | 891.8   | 1009.4  | 864.9   | 752.2   | 698.3   | 681.2   |
| 57.5° | 35980.2 | 32623.4 | 16016.5 | 3533.0  | 1205.4  | 862.5   | 894.4   | 852.6   | 722.7   | 666.5   | 651.7   |
| 60°   | 36646.5 | 32564.6 | 16278.6 | 3114.2  | 1107.5  | 837.9   | 781.5   | 955.5   | 698.3   | 641.8   | 624.9   |
| 62.5° | 36286.4 | 31060.2 | 15543.6 | 2820.0  | 1085.4  | 806.0   | 732.6   | 884.6   | 678.7   | 624.9   | 600.2   |
| 65°   | 34622.7 | 28394.5 | 13595.8 | 2741.6  | 1149.1  | 774.2   | 700.8   | 693.4   | 651.7   | 600.2   | 575.8   |
| 67.5° | 30999.0 | 24410.6 | 10885.9 | 2749.1  | 1230.0  | 742.4   | 668.9   | 634.7   | 615.0   | 573.3   | 551.3   |
| 70°   | 25248.7 | 19299.6 | 8114.7  | 2768.7  | 1271.6  | 705.7   | 634.7   | 597.8   | 575.8   | 534.1   | 519.4   |
| 72.5° | 18564.6 | 14874.8 | 5894.9  | 2641.2  | 1278.9  | 663.9   | 588.0   | 556.2   | 534.1   | 490.0   | 477.8   |
| 75°   | 12701.5 | 11378.4 | 4089.3  | 2187.9  | 1114.7  | 605.2   | 536.6   | 507.2   | 492.5   | 438.6   | 431.2   |
| 77.5° | 9278.7  | 8541.2  | 2616.8  | 1624.5  | 859.9   | 531.6   | 472.9   | 450.8   | 441.0   | 382.1   | 372.3   |
| 80°   | 7446.0  | 6757.5  | 1636.7  | 1112.3  | 629.7   | 445.9   | 397.0   | 384.7   | 374.9   | 316.1   | 308.7   |
| 82.5° | 5164.9  | 4525.4  | 1051.0  | 722.7   | 472.9   | 345.5   | 313.6   | 308.7   | 294.0   | 240.0   | 232.8   |
| 85°   | 2724.6  | 2457.5  | 666.5   | 492.5   | 343.1   | 237.6   | 218.1   | 218.1   | 210.7   | 159.3   | 154.4   |
| 87.5° | 348.0   | 566.0   | 338.1   | 257.3   | 188.6   | 105.3   | 105.3   | 102.9   | 110.2   | 90.6    | 78.4    |
| 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: P267255

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 |
| 2.5°  | 12169.8 | 12287.3 | 12174.6 | 12182.0 | 12307.0 | 12679.4 | 12848.5 | 12988.1 | 13137.6 | 13235.5 | 13279.7 |
| 5°    | 8820.5  | 9094.9  | 9188.0  | 9384.1  | 9673.0  | 10148.4 | 10337.1 | 10474.2 | 10565.0 | 10618.9 | 10641.0 |
| 7.5°  | 6032.2  | 6198.8  | 6385.1  | 6701.0  | 7330.8  | 7610.1  | 7735.0  | 7703.2  | 7600.3  | 7563.5  | 7526.8  |
| 10°   | 4547.4  | 4481.3  | 4447.0  | 4620.9  | 5130.6  | 5412.4  | 5500.5  | 5414.9  | 5358.4  | 5370.6  | 5432.0  |
| 12.5° | 3523.3  | 3408.1  | 3268.5  | 3248.9  | 3584.5  | 3836.9  | 3893.3  | 3898.1  | 4001.1  | 4091.7  | 4226.4  |
| 15°   | 2567.7  | 2555.5  | 2486.9  | 2445.2  | 2636.3  | 2842.1  | 2866.6  | 2910.8  | 3003.8  | 3070.0  | 3187.6  |
| 17.5° | 1810.7  | 1876.7  | 1930.6  | 1957.6  | 2102.3  | 2249.3  | 2222.2  | 2200.2  | 2183.2  | 2183.2  | 2239.5  |
| 20°   | 1460.3  | 1504.4  | 1573.0  | 1651.4  | 1798.3  | 1901.4  | 1835.1  | 1746.9  | 1683.2  | 1663.7  | 1670.9  |
| 22.5° | 1315.7  | 1350.1  | 1389.1  | 1457.8  | 1590.1  | 1661.1  | 1590.1  | 1526.4  | 1462.7  | 1440.7  | 1433.3  |
| 25°   | 1242.3  | 1286.4  | 1323.1  | 1374.5  | 1472.5  | 1521.5  | 1452.9  | 1406.3  | 1367.2  | 1340.2  | 1320.6  |
| 27.5° | 1200.6  | 1239.8  | 1249.5  | 1274.1  | 1357.3  | 1401.4  | 1367.2  | 1347.5  | 1323.1  | 1298.6  | 1274.1  |
| 30°   | 1156.5  | 1149.1  | 1132.0  | 1134.4  | 1200.6  | 1244.7  | 1242.3  | 1247.0  | 1244.7  | 1237.3  | 1232.5  |
| 32.5° | 1056.0  | 1041.3  | 1026.7  | 1041.3  | 1102.6  | 1141.7  | 1144.3  | 1154.1  | 1154.1  | 1151.5  | 1171.2  |
| 35°   | 879.6   | 906.6   | 923.6   | 967.8   | 1041.3  | 1075.6  | 1060.9  | 1036.5  | 992.3   | 965.4   | 963.0   |
| 37.5° | 813.4   | 818.4   | 847.7   | 908.9   | 989.8   | 1021.7  | 999.6   | 943.3   | 913.8   | 908.9   | 916.4   |
| 40°   | 781.5   | 786.5   | 803.7   | 859.9   | 940.9   | 972.8   | 953.1   | 911.4   | 884.6   | 882.0   | 894.4   |
| 42.5° | 759.5   | 764.5   | 774.2   | 813.4   | 879.6   | 918.7   | 921.2   | 891.8   | 859.9   | 862.5   | 874.7   |
| 45°   | 747.3   | 749.7   | 747.3   | 767.0   | 828.1   | 874.7   | 894.4   | 874.7   | 847.7   | 852.6   | 867.4   |
| 47.5° | 744.9   | 737.5   | 727.6   | 732.6   | 796.3   | 842.8   | 867.4   | 859.9   | 847.7   | 852.6   | 864.9   |
| 50°   | 735.1   | 717.8   | 705.7   | 703.3   | 767.0   | 815.9   | 837.9   | 837.9   | 842.8   | 852.6   | 864.9   |
| 52.5° | 705.7   | 686.0   | 686.0   | 678.7   | 747.3   | 793.8   | 808.6   | 811.0   | 818.4   | 835.6   | 852.6   |
| 55°   | 668.9   | 661.5   | 668.9   | 656.7   | 732.6   | 776.7   | 784.0   | 788.9   | 793.8   | 808.6   | 833.1   |
| 57.5° | 637.1   | 627.2   | 644.4   | 639.5   | 720.4   | 759.5   | 759.5   | 769.4   | 769.4   | 788.9   | 808.6   |
| 60°   | 619.9   | 600.2   | 607.7   | 612.6   | 703.3   | 744.9   | 739.9   | 749.7   | 754.7   | 771.9   | 786.5   |
| 62.5° | 597.8   | 580.7   | 580.7   | 592.9   | 683.6   | 722.7   | 720.4   | 727.6   | 747.3   | 752.2   | 767.0   |
| 65°   | 571.0   | 563.5   | 556.2   | 571.0   | 663.9   | 698.3   | 700.8   | 710.5   | 727.6   | 732.6   | 744.9   |
| 67.5° | 544.0   | 546.3   | 531.6   | 546.3   | 646.8   | 673.8   | 673.8   | 693.4   | 700.8   | 710.5   | 722.7   |
| 70°   | 514.5   | 517.0   | 504.7   | 521.8   | 634.7   | 646.8   | 644.4   | 671.4   | 676.2   | 683.6   | 695.8   |
| 72.5° | 477.8   | 477.8   | 472.9   | 497.4   | 615.0   | 619.9   | 615.0   | 637.1   | 639.5   | 646.8   | 651.7   |
| 75°   | 438.6   | 438.6   | 433.7   | 467.9   | 602.8   | 590.5   | 575.8   | 592.9   | 597.8   | 602.8   | 602.8   |
| 77.5° | 387.1   | 392.0   | 392.0   | 433.7   | 561.1   | 578.1   | 529.2   | 539.1   | 546.3   | 548.9   | 541.5   |
| 80°   | 323.4   | 335.6   | 340.5   | 394.4   | 470.4   | 534.1   | 472.9   | 480.2   | 482.7   | 482.7   | 472.9   |
| 82.5° | 247.5   | 269.5   | 281.8   | 340.5   | 360.2   | 448.3   | 411.7   | 419.0   | 411.7   | 397.0   | 392.0   |
| 85°   | 171.4   | 201.0   | 215.7   | 259.7   | 271.9   | 345.5   | 343.1   | 343.1   | 328.3   | 308.7   | 306.2   |
| 87.5° | 93.2    | 110.2   | 120.1   | 154.4   | 186.2   | 232.8   | 252.3   | 245.0   | 232.8   | 220.5   | 223.0   |
| 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: P267255

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7027-1200-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 |
| 2.5°  | 13510.0 | 13843.2 | 14374.9 | 14781.6 | 15190.8 | 15585.2 | 16011.6 | 16337.5 | 16614.3 | 16722.0 | 17050.5 |
| 5°    | 10863.9 | 11280.3 | 11782.7 | 12689.2 | 13331.1 | 14039.3 | 14857.5 | 15940.6 | 16357.1 | 16932.8 | 17876.1 |
| 7.5°  | 7681.1  | 8058.4  | 8867.0  | 9599.6  | 10508.6 | 11510.7 | 12615.7 | 14110.2 | 14656.7 | 15580.4 | 17116.7 |
| 10°   | 5735.8  | 6174.3  | 6823.6  | 7441.0  | 8242.3  | 9266.3  | 10535.5 | 12206.6 | 12870.6 | 13872.6 | 15641.6 |
| 12.5° | 4620.9  | 5137.9  | 5826.3  | 6407.2  | 7027.0  | 7749.8  | 8982.2  | 10814.9 | 11704.2 | 12581.4 | 14369.9 |
| 15°   | 3550.2  | 4091.7  | 4731.3  | 5468.7  | 6152.3  | 6931.4  | 8222.6  | 10226.8 | 11251.0 | 12164.8 | 13691.3 |
| 17.5° | 2457.5  | 2920.6  | 3726.7  | 4495.9  | 5370.6  | 6367.8  | 8012.0  | 10351.8 | 11574.4 | 12628.0 | 13808.9 |
| 20°   | 1742.1  | 2006.6  | 2668.1  | 3560.1  | 4650.3  | 5902.4  | 7972.7  | 11008.4 | 12598.5 | 13801.6 | 14563.6 |
| 22.5° | 1465.1  | 1563.2  | 1947.9  | 2766.2  | 4025.6  | 5554.4  | 8109.9  | 11929.8 | 13980.4 | 15516.7 | 15766.6 |
| 25°   | 1335.3  | 1394.1  | 1595.0  | 2170.8  | 3469.3  | 5302.1  | 8573.1  | 13301.7 | 15690.7 | 17231.7 | 17187.7 |
| 27.5° | 1264.3  | 1325.4  | 1457.8  | 1832.7  | 3050.5  | 5145.3  | 9036.1  | 14928.7 | 17645.9 | 19093.8 | 18545.0 |
| 30°   | 1242.3  | 1325.4  | 1465.1  | 1727.4  | 2751.5  | 4897.7  | 9415.9  | 16357.1 | 19150.2 | 20350.8 | 19162.5 |
| 32.5° | 1225.1  | 1237.3  | 1301.0  | 1489.7  | 2467.3  | 4608.8  | 9673.0  | 17638.5 | 20622.7 | 21546.4 | 20051.8 |
| 35°   | 989.8   | 1051.0  | 1154.1  | 1335.3  | 2300.6  | 4434.8  | 9673.0  | 18743.5 | 22073.2 | 22754.3 | 20899.5 |
| 37.5° | 953.1   | 1007.0  | 1097.6  | 1252.0  | 2207.6  | 4349.0  | 9479.5  | 19809.3 | 23555.5 | 24124.0 | 21597.9 |
| 40°   | 933.5   | 977.5   | 1063.4  | 1188.3  | 2168.4  | 4251.0  | 9197.7  | 20750.2 | 25003.6 | 25496.1 | 22249.6 |
| 42.5° | 918.7   | 958.0   | 1038.9  | 1149.1  | 2116.9  | 4143.2  | 8969.9  | 21504.7 | 26260.5 | 26667.3 | 22871.9 |
| 45°   | 911.4   | 953.1   | 1041.3  | 1168.8  | 2014.0  | 4001.1  | 8893.9  | 22320.6 | 27294.5 | 27644.8 | 23545.7 |
| 47.5° | 911.4   | 960.5   | 1053.5  | 1210.3  | 1891.6  | 3854.1  | 9131.6  | 23396.3 | 28272.0 | 28443.6 | 24339.5 |
| 50°   | 904.1   | 958.0   | 1087.8  | 1168.8  | 1712.7  | 3667.8  | 9690.2  | 24751.2 | 29330.5 | 29350.1 | 25344.2 |
| 52.5° | 889.4   | 953.1   | 1171.2  | 1144.3  | 1506.8  | 3422.8  | 10445.0 | 26490.7 | 30896.1 | 31013.8 | 26917.2 |
| 55°   | 872.3   | 945.7   | 1149.1  | 1087.8  | 1337.8  | 3131.2  | 11062.4 | 28605.3 | 33096.3 | 33422.2 | 29230.0 |
| 57.5° | 850.2   | 935.9   | 1112.3  | 1009.4  | 1227.5  | 2756.4  | 11285.2 | 30153.8 | 34632.5 | 35450.9 | 31837.0 |
| 60°   | 830.7   | 928.6   | 1004.6  | 963.0   | 1159.0  | 2440.3  | 10854.1 | 29847.4 | 34527.3 | 36291.3 | 34147.5 |
| 62.5° | 811.0   | 935.9   | 916.4   | 933.5   | 1127.1  | 2237.0  | 9726.9  | 27394.9 | 32780.3 | 35424.0 | 35860.1 |
| 65°   | 788.9   | 869.7   | 864.9   | 908.9   | 1119.6  | 2156.1  | 8063.4  | 23717.3 | 29404.0 | 32682.2 | 36264.3 |
| 67.5° | 759.5   | 803.7   | 828.1   | 877.1   | 1144.3  | 2085.1  | 6507.5  | 19564.2 | 24712.1 | 28573.4 | 34157.2 |
| 70°   | 727.6   | 764.5   | 791.3   | 837.9   | 1129.4  | 2053.2  | 5412.4  | 15428.5 | 19608.5 | 23418.4 | 29999.3 |
| 72.5° | 686.0   | 717.8   | 742.4   | 786.5   | 1114.7  | 2036.1  | 4572.0  | 12424.5 | 14639.5 | 17395.9 | 24391.0 |
| 75°   | 637.1   | 666.5   | 683.6   | 727.6   | 1068.3  | 1864.5  | 3594.4  | 10513.6 | 10954.6 | 12101.2 | 19427.0 |
| 77.5° | 580.7   | 602.8   | 617.5   | 666.5   | 945.7   | 1551.0  | 2599.5  | 8109.9  | 8506.9  | 8786.1  | 14894.3 |
| 80°   | 514.5   | 536.6   | 544.0   | 590.5   | 784.0   | 1212.8  | 1695.6  | 5990.5  | 6363.0  | 6426.7  | 9726.9  |
| 82.5° | 438.6   | 460.7   | 460.7   | 504.7   | 641.8   | 872.3   | 1112.3  | 4103.9  | 4177.5  | 4393.2  | 6875.1  |
| 85°   | 352.9   | 370.0   | 370.0   | 392.0   | 497.4   | 651.7   | 764.5   | 2060.5  | 2038.6  | 2327.6  | 5956.2  |
| 87.5° | 252.3   | 264.6   | 276.9   | 281.8   | 355.3   | 431.2   | 460.7   | 627.2   | 414.1   | 475.4   | 3824.7  |
| 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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|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 | 15058.5 |
| 2.5°  | 17297.9 | 17437.5 | 17295.4 | 17192.5 | 16749.1 | 16383.9 | 15896.4 | 15646.5 |
| 5°    | 18594.0 | 18949.2 | 18829.3 | 18398.0 | 17471.9 | 16430.5 | 15247.1 | 14713.0 |
| 7.5°  | 18437.3 | 19263.0 | 19282.5 | 18476.3 | 17111.8 | 15577.9 | 13975.6 | 13216.0 |
| 10°   | 17217.0 | 18273.1 | 18574.4 | 17792.9 | 16344.8 | 14629.7 | 12792.1 | 11924.8 |
| 12.5° | 15854.7 | 16888.8 | 17119.1 | 16849.6 | 15639.2 | 13916.7 | 12052.2 | 11202.0 |
| 15°   | 14740.0 | 15203.0 | 15477.4 | 15712.7 | 15034.0 | 13632.5 | 12010.5 | 11077.0 |
| 17.5° | 14061.3 | 14009.8 | 14088.3 | 14497.4 | 14612.5 | 13958.5 | 12647.5 | 11618.5 |
| 20°   | 13816.3 | 13029.7 | 13010.2 | 13573.7 | 14414.2 | 14735.1 | 13892.3 | 12657.4 |
| 22.5° | 13951.0 | 12677.1 | 12515.2 | 13184.2 | 14519.5 | 15854.7 | 15524.0 | 14115.2 |
| 25°   | 14416.5 | 12706.3 | 12576.5 | 13223.3 | 14901.8 | 17048.0 | 17285.6 | 16001.8 |
| 27.5° | 15149.1 | 12892.6 | 12721.1 | 13385.0 | 15408.8 | 18050.2 | 19020.4 | 17829.6 |
| 30°   | 15845.1 | 13216.0 | 13002.8 | 13703.6 | 15872.0 | 18447.1 | 20083.8 | 19255.6 |
| 32.5° | 16690.2 | 13821.2 | 13446.3 | 14289.2 | 16445.4 | 19079.1 | 21031.8 | 20436.5 |
| 35°   | 17518.4 | 14683.7 | 14218.2 | 15193.3 | 17084.8 | 19865.7 | 22114.8 | 21945.9 |
| 37.5° | 18427.4 | 15810.7 | 15426.1 | 16362.0 | 17959.5 | 20608.0 | 23496.7 | 23714.8 |
| 40°   | 19397.7 | 17305.3 | 16849.6 | 18067.3 | 19316.9 | 21539.1 | 24939.9 | 25464.3 |
| 42.5° | 20375.3 | 18963.9 | 18420.0 | 19654.9 | 20809.0 | 22457.8 | 26174.8 | 26951.4 |
| 45°   | 21495.1 | 20764.9 | 20507.5 | 21842.8 | 22242.3 | 23332.5 | 27086.1 | 28051.6 |
| 47.5° | 22798.4 | 22808.2 | 23222.4 | 23756.4 | 23687.9 | 24322.5 | 28002.5 | 29033.9 |
| 50°   | 24320.1 | 25358.9 | 26272.8 | 26628.0 | 25177.5 | 25385.8 | 29274.1 | 30349.7 |
| 52.5° | 26147.8 | 28409.3 | 29541.2 | 29308.5 | 26782.3 | 26684.3 | 31288.1 | 32162.8 |
| 55°   | 28433.7 | 31638.6 | 32763.2 | 32596.5 | 28627.4 | 28453.4 | 33797.1 | 34306.7 |
| 57.5° | 31079.9 | 34767.3 | 35801.3 | 35051.5 | 30842.2 | 30393.9 | 35872.3 | 35980.2 |
| 60°   | 33405.1 | 37246.9 | 38153.4 | 37322.8 | 33076.8 | 32459.4 | 37168.5 | 36646.5 |
| 62.5° | 34698.7 | 38087.2 | 38724.2 | 37830.1 | 34608.1 | 34659.6 | 37452.7 | 36286.4 |
| 65°   | 34120.5 | 35963.0 | 36168.7 | 36095.3 | 34213.7 | 35936.1 | 36431.0 | 34622.7 |
| 67.5° | 30955.0 | 30592.3 | 30937.7 | 31415.5 | 30832.4 | 34255.2 | 33601.1 | 30999.0 |
| 70°   | 25378.5 | 23386.5 | 24074.9 | 24395.9 | 24660.5 | 29477.5 | 29164.0 | 25248.7 |
| 72.5° | 19125.8 | 16383.9 | 16927.9 | 16861.7 | 18086.8 | 23643.7 | 22680.9 | 18564.6 |
| 75°   | 13551.7 | 11108.9 | 11177.5 | 11150.5 | 12620.6 | 18498.4 | 16423.3 | 12701.5 |
| 77.5° | 9482.0  | 8048.6  | 8085.5  | 8237.4  | 8484.9  | 13951.0 | 11733.8 | 9278.7  |
| 80°   | 6519.8  | 6108.1  | 6311.5  | 6323.8  | 5880.3  | 9371.7  | 8668.6  | 7446.0  |
| 82.5° | 4856.1  | 4246.1  | 4197.2  | 4268.1  | 4608.8  | 7593.0  | 6661.9  | 5164.9  |
| 85°   | 3976.5  | 2513.8  | 2021.4  | 2533.4  | 4084.4  | 7519.4  | 4425.0  | 2724.6  |
| 87.5° | 2239.5  | 1193.2  | 539.1   | 999.6   | 1629.3  | 4978.6  | 1278.9  | 348.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)