

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: P268331

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-5WQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13436.5 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 124  
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

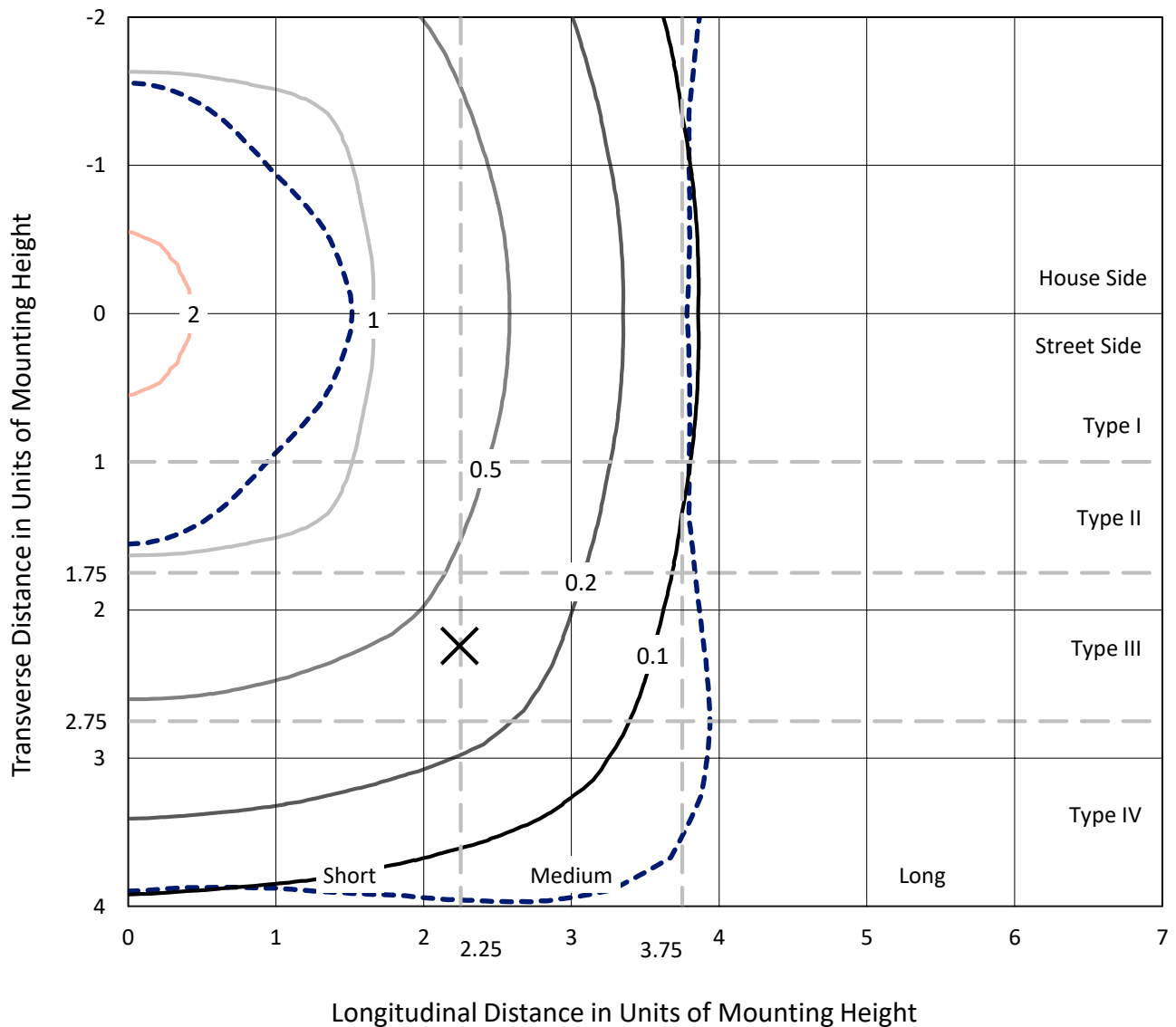


REPORT NUMBER: P268331

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

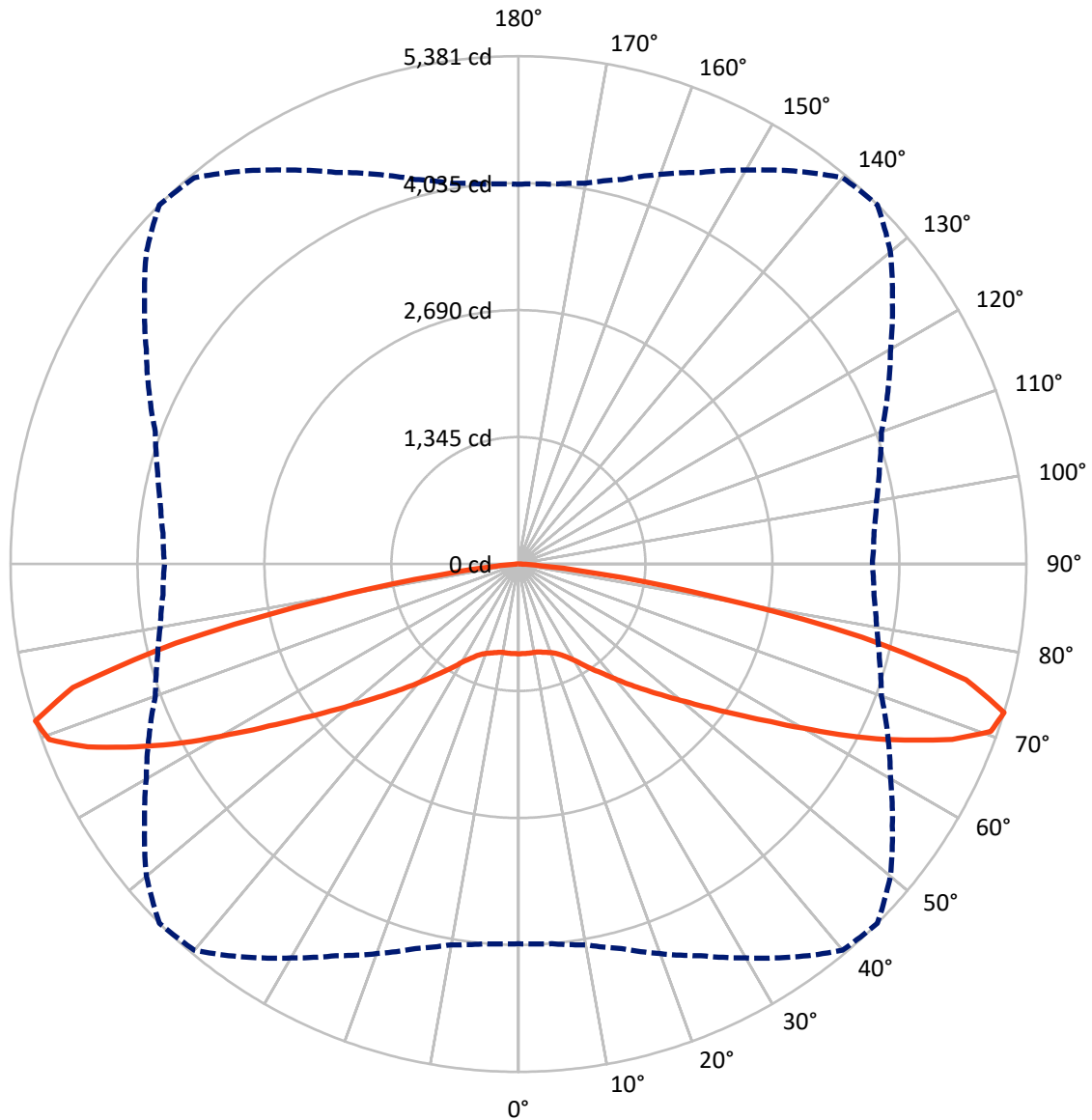


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P268331

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



REPORT NUMBER: P268331

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-7027-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6718.2   | 0.0    | 6718.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6718.2   | 0.0    | 6718.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13436.5  | 0.0    | 13436.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 90.9    | 0.7       |
| 10°-20°   | 275.9   | 2.1       |
| 20°-30°   | 504.3   | 3.8       |
| 30°-40°   | 869.5   | 6.5       |
| 40°-50°   | 1486.3  | 11.1      |
| 50°-60°   | 2409.1  | 17.9      |
| 60°-70°   | 3996.6  | 29.7      |
| 70°-80°   | 3520.1  | 26.2      |
| 80°-90°   | 283.8   | 2.1       |
| 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°    | 13436.5 | 100.0     |
| 0°-180°   | 13436.5 | 100.0     |



REPORT NUMBER: P268331

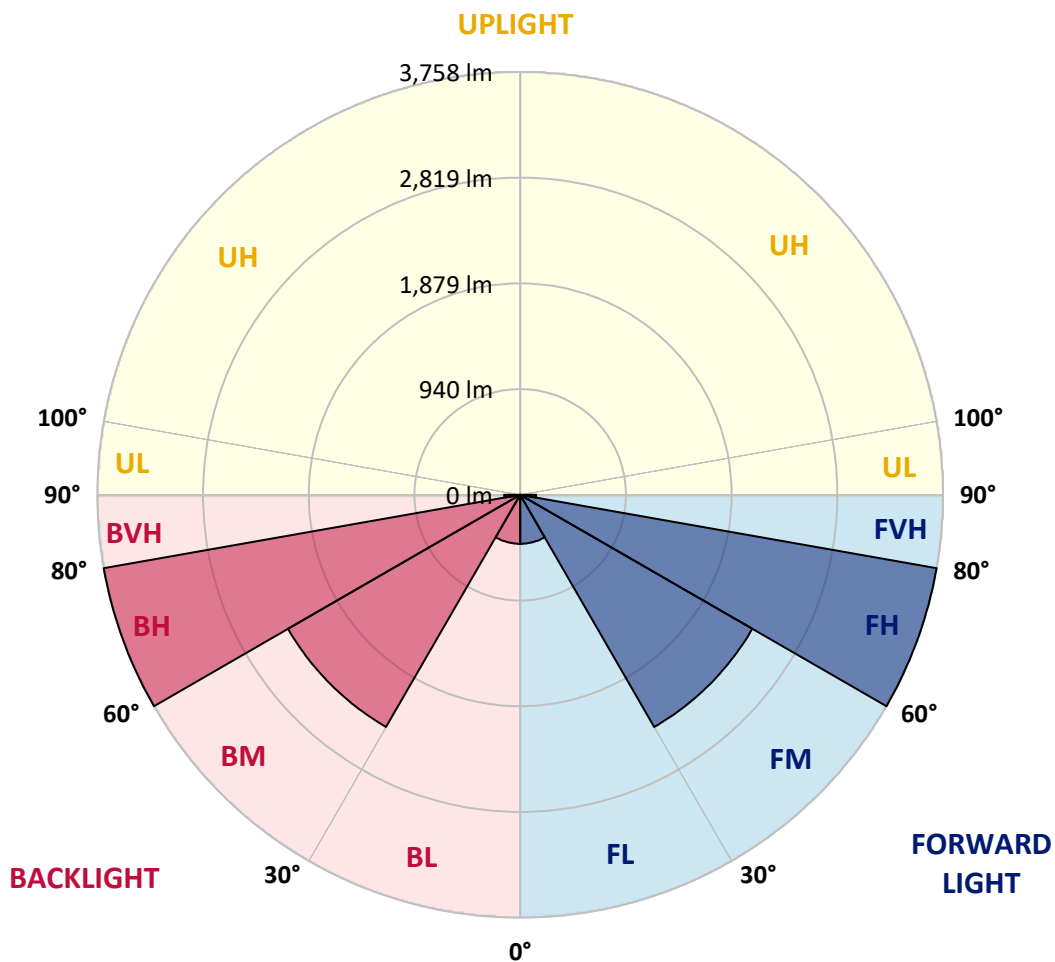
CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-7027-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 435.5  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 2382.4 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 3758.4 | 28.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 141.9  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 435.5  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2382.4 | 17.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3758.4 | 28.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 141.9  | 1.1       |                         |      | 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 Short





REPORT NUMBER: P268331

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-7027-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  |
| 2.5°  | 951.6  | 952.2  | 952.7  | 952.2  | 952.2  | 951.6  | 950.9  | 951.6  | 950.9  | 949.7  | 950.2  |
| 5°    | 954.5  | 955.8  | 955.8  | 954.5  | 955.2  | 954.5  | 953.3  | 954.0  | 952.7  | 950.9  | 950.9  |
| 7.5°  | 958.3  | 958.9  | 958.9  | 957.7  | 958.3  | 957.1  | 955.8  | 955.2  | 954.0  | 951.6  | 949.7  |
| 10°   | 963.8  | 964.5  | 963.8  | 962.7  | 962.7  | 960.7  | 957.7  | 956.4  | 954.0  | 950.2  | 948.4  |
| 12.5° | 970.0  | 970.6  | 970.0  | 968.7  | 968.2  | 965.0  | 962.7  | 960.7  | 958.9  | 955.8  | 952.7  |
| 15°   | 978.7  | 979.8  | 978.7  | 976.2  | 974.3  | 971.8  | 970.6  | 971.2  | 971.8  | 969.5  | 966.2  |
| 17.5° | 994.7  | 995.2  | 993.4  | 987.9  | 985.4  | 982.9  | 982.9  | 984.2  | 986.0  | 984.8  | 981.7  |
| 20°   | 1024.2 | 1022.5 | 1018.0 | 1011.3 | 1008.2 | 1003.9 | 1003.2 | 1003.9 | 1003.9 | 1003.2 | 1000.8 |
| 22.5° | 1061.2 | 1060.0 | 1054.4 | 1045.7 | 1041.5 | 1039.0 | 1035.3 | 1032.2 | 1031.7 | 1029.7 | 1027.3 |
| 25°   | 1105.5 | 1104.9 | 1098.2 | 1090.8 | 1087.7 | 1084.7 | 1081.5 | 1077.2 | 1073.6 | 1069.3 | 1066.7 |
| 27.5° | 1162.2 | 1159.8 | 1149.9 | 1146.2 | 1141.9 | 1140.0 | 1135.7 | 1130.8 | 1127.7 | 1122.3 | 1119.2 |
| 30°   | 1224.5 | 1224.5 | 1216.6 | 1215.2 | 1215.2 | 1210.9 | 1206.1 | 1197.4 | 1191.8 | 1186.3 | 1184.4 |
| 32.5° | 1286.7 | 1287.5 | 1279.4 | 1281.8 | 1283.7 | 1286.7 | 1288.0 | 1284.9 | 1281.3 | 1280.7 | 1276.9 |
| 35°   | 1376.7 | 1374.2 | 1366.2 | 1368.1 | 1367.5 | 1367.0 | 1367.0 | 1373.7 | 1374.9 | 1376.2 | 1368.7 |
| 37.5° | 1488.3 | 1488.3 | 1480.2 | 1480.2 | 1476.5 | 1473.0 | 1467.9 | 1472.2 | 1479.0 | 1480.9 | 1475.9 |
| 40°   | 1615.8 | 1620.2 | 1610.3 | 1609.8 | 1610.9 | 1599.3 | 1593.7 | 1600.4 | 1604.7 | 1612.2 | 1606.6 |
| 42.5° | 1766.2 | 1763.2 | 1753.3 | 1752.1 | 1745.2 | 1741.5 | 1736.7 | 1742.2 | 1749.0 | 1753.9 | 1755.7 |
| 45°   | 1910.4 | 1908.0 | 1897.0 | 1897.0 | 1890.0 | 1887.0 | 1889.4 | 1898.7 | 1901.8 | 1908.5 | 1915.4 |
| 47.5° | 2052.7 | 2049.8 | 2042.2 | 2045.4 | 2046.0 | 2051.5 | 2059.5 | 2068.2 | 2076.8 | 2086.0 | 2089.2 |
| 50°   | 2198.2 | 2198.8 | 2190.8 | 2198.2 | 2207.4 | 2222.9 | 2244.4 | 2258.6 | 2276.5 | 2288.3 | 2291.8 |
| 52.5° | 2330.7 | 2333.2 | 2341.8 | 2359.0 | 2377.5 | 2407.7 | 2444.6 | 2479.2 | 2508.7 | 2528.5 | 2527.3 |
| 55°   | 2489.7 | 2493.3 | 2514.4 | 2543.9 | 2574.2 | 2619.7 | 2674.6 | 2735.6 | 2784.8 | 2813.2 | 2795.3 |
| 57.5° | 2693.1 | 2701.1 | 2724.5 | 2764.5 | 2809.5 | 2868.6 | 2943.8 | 3035.7 | 3112.2 | 3150.4 | 3121.4 |
| 60°   | 2972.2 | 2977.2 | 3005.5 | 3049.8 | 3104.2 | 3177.5 | 3277.9 | 3401.2 | 3509.0 | 3559.5 | 3526.2 |
| 62.5° | 3340.2 | 3349.4 | 3372.1 | 3417.2 | 3472.7 | 3555.9 | 3678.5 | 3832.6 | 3966.8 | 4037.2 | 3962.0 |
| 65°   | 3779.6 | 3809.2 | 3828.2 | 3873.9 | 3925.7 | 4013.7 | 4141.9 | 4307.1 | 4451.3 | 4497.5 | 4410.6 |
| 67.5° | 4214.7 | 4240.4 | 4273.7 | 4326.1 | 4378.6 | 4477.8 | 4596.6 | 4757.0 | 4915.3 | 4957.2 | 4822.3 |
| 70°   | 4405.1 | 4419.8 | 4471.7 | 4543.1 | 4643.6 | 4760.7 | 4898.1 | 5077.9 | 5273.9 | 5308.5 | 5137.1 |
| 72.5° | 4023.6 | 4038.4 | 4096.4 | 4217.7 | 4392.7 | 4578.8 | 4818.6 | 5083.0 | 5341.9 | 5380.6 | 5144.6 |
| 75°   | 3043.1 | 3019.1 | 3104.7 | 3265.6 | 3501.7 | 3761.1 | 4096.4 | 4475.3 | 4849.4 | 4898.1 | 4616.4 |
| 77.5° | 1572.8 | 1569.6 | 1634.3 | 1834.0 | 2115.7 | 2410.8 | 2780.0 | 3208.2 | 3574.4 | 3722.2 | 3493.0 |
| 80°   | 443.1  | 448.1  | 478.8  | 578.1  | 742.5  | 955.8  | 1244.2 | 1645.4 | 1944.9 | 2097.7 | 1969.5 |
| 82.5° | 173.8  | 187.3  | 199.1  | 217.5  | 239.0  | 270.5  | 361.1  | 537.4  | 721.0  | 861.6  | 705.6  |
| 85°   | 62.3   | 66.6   | 94.3   | 111.5  | 113.4  | 119.6  | 136.3  | 159.0  | 191.7  | 228.6  | 187.9  |
| 87.5° | 23.4   | 26.0   | 30.3   | 49.9   | 49.2   | 44.9   | 54.8   | 57.3   | 43.2   | 39.4   | 48.7   |
| 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: P268331

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-7027-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  | 951.6  |
| 2.5°  | 949.1  | 949.7  | 949.7  | 950.2  | 950.9  | 950.9  | 952.2  | 952.2  |
| 5°    | 949.7  | 949.7  | 948.4  | 949.1  | 948.4  | 948.4  | 949.1  | 949.1  |
| 7.5°  | 948.4  | 947.8  | 946.5  | 945.9  | 944.7  | 944.7  | 944.7  | 944.7  |
| 10°   | 946.5  | 945.9  | 944.7  | 944.1  | 943.5  | 943.5  | 943.5  | 943.5  |
| 12.5° | 951.6  | 949.7  | 948.4  | 947.8  | 947.8  | 947.8  | 947.8  | 947.8  |
| 15°   | 964.5  | 960.2  | 957.1  | 957.1  | 957.7  | 958.9  | 958.9  | 960.2  |
| 17.5° | 980.5  | 975.6  | 972.4  | 970.0  | 971.2  | 973.0  | 974.3  | 975.6  |
| 20°   | 999.5  | 997.1  | 992.7  | 990.3  | 990.3  | 992.7  | 994.1  | 994.7  |
| 22.5° | 1026.0 | 1024.2 | 1022.5 | 1019.2 | 1019.2 | 1020.6 | 1023.0 | 1023.0 |
| 25°   | 1065.5 | 1064.3 | 1063.1 | 1060.5 | 1060.0 | 1060.0 | 1061.2 | 1062.4 |
| 27.5° | 1114.8 | 1115.4 | 1114.2 | 1113.5 | 1111.7 | 1111.2 | 1113.0 | 1112.3 |
| 30°   | 1180.7 | 1183.8 | 1186.9 | 1184.4 | 1181.5 | 1179.6 | 1177.7 | 1175.3 |
| 32.5° | 1270.2 | 1266.4 | 1263.9 | 1259.7 | 1254.2 | 1249.2 | 1245.5 | 1241.2 |
| 35°   | 1354.6 | 1348.4 | 1345.9 | 1349.7 | 1349.1 | 1345.9 | 1341.6 | 1337.9 |
| 37.5° | 1458.0 | 1456.8 | 1458.0 | 1464.9 | 1463.6 | 1466.8 | 1458.0 | 1457.5 |
| 40°   | 1588.7 | 1590.0 | 1598.7 | 1606.6 | 1610.9 | 1615.2 | 1610.3 | 1605.5 |
| 42.5° | 1740.3 | 1739.7 | 1742.8 | 1753.9 | 1761.2 | 1766.2 | 1755.7 | 1754.5 |
| 45°   | 1900.5 | 1896.2 | 1898.7 | 1908.0 | 1915.4 | 1920.8 | 1909.2 | 1909.2 |
| 47.5° | 2076.8 | 2069.4 | 2061.4 | 2071.9 | 2076.3 | 2079.8 | 2070.7 | 2067.5 |
| 50°   | 2273.4 | 2258.0 | 2240.7 | 2245.0 | 2245.0 | 2243.8 | 2232.1 | 2231.5 |
| 52.5° | 2498.9 | 2470.6 | 2439.2 | 2427.5 | 2420.8 | 2413.2 | 2392.9 | 2383.2 |
| 55°   | 2758.3 | 2715.8 | 2666.6 | 2636.3 | 2620.4 | 2600.1 | 2566.1 | 2556.8 |
| 57.5° | 3061.7 | 2995.0 | 2910.0 | 2873.0 | 2837.2 | 2804.0 | 2766.4 | 2755.9 |
| 60°   | 3420.8 | 3322.9 | 3210.2 | 3141.7 | 3102.8 | 3070.9 | 3032.0 | 3030.2 |
| 62.5° | 3821.5 | 3666.8 | 3539.2 | 3477.6 | 3449.2 | 3420.8 | 3383.9 | 3388.9 |
| 65°   | 4228.9 | 4067.3 | 3947.8 | 3897.8 | 3871.3 | 3848.0 | 3811.0 | 3816.4 |
| 67.5° | 4630.7 | 4482.2 | 4350.9 | 4299.6 | 4270.2 | 4240.4 | 4207.2 | 4212.8 |
| 70°   | 4918.9 | 4734.7 | 4586.8 | 4473.5 | 4402.7 | 4322.5 | 4270.7 | 4257.7 |
| 72.5° | 4836.5 | 4552.3 | 4317.6 | 4092.6 | 3960.7 | 3853.5 | 3780.7 | 3749.3 |
| 75°   | 4185.7 | 3797.4 | 3495.5 | 3219.3 | 3064.1 | 2937.7 | 2845.9 | 2788.6 |
| 77.5° | 3108.4 | 2672.1 | 2315.3 | 1997.3 | 1745.9 | 1577.1 | 1458.0 | 1381.1 |
| 80°   | 1701.5 | 1294.2 | 945.9  | 664.9  | 488.7  | 406.2  | 358.7  | 335.8  |
| 82.5° | 530.0  | 342.1  | 252.1  | 217.5  | 202.1  | 193.6  | 179.3  | 156.6  |
| 85°   | 168.8  | 148.0  | 137.4  | 131.2  | 125.1  | 109.1  | 75.2   | 68.5   |
| 87.5° | 65.3   | 67.2   | 66.6   | 62.8   | 64.0   | 46.3   | 37.0   | 32.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)