

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: P192889

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SL3-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3971.6 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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



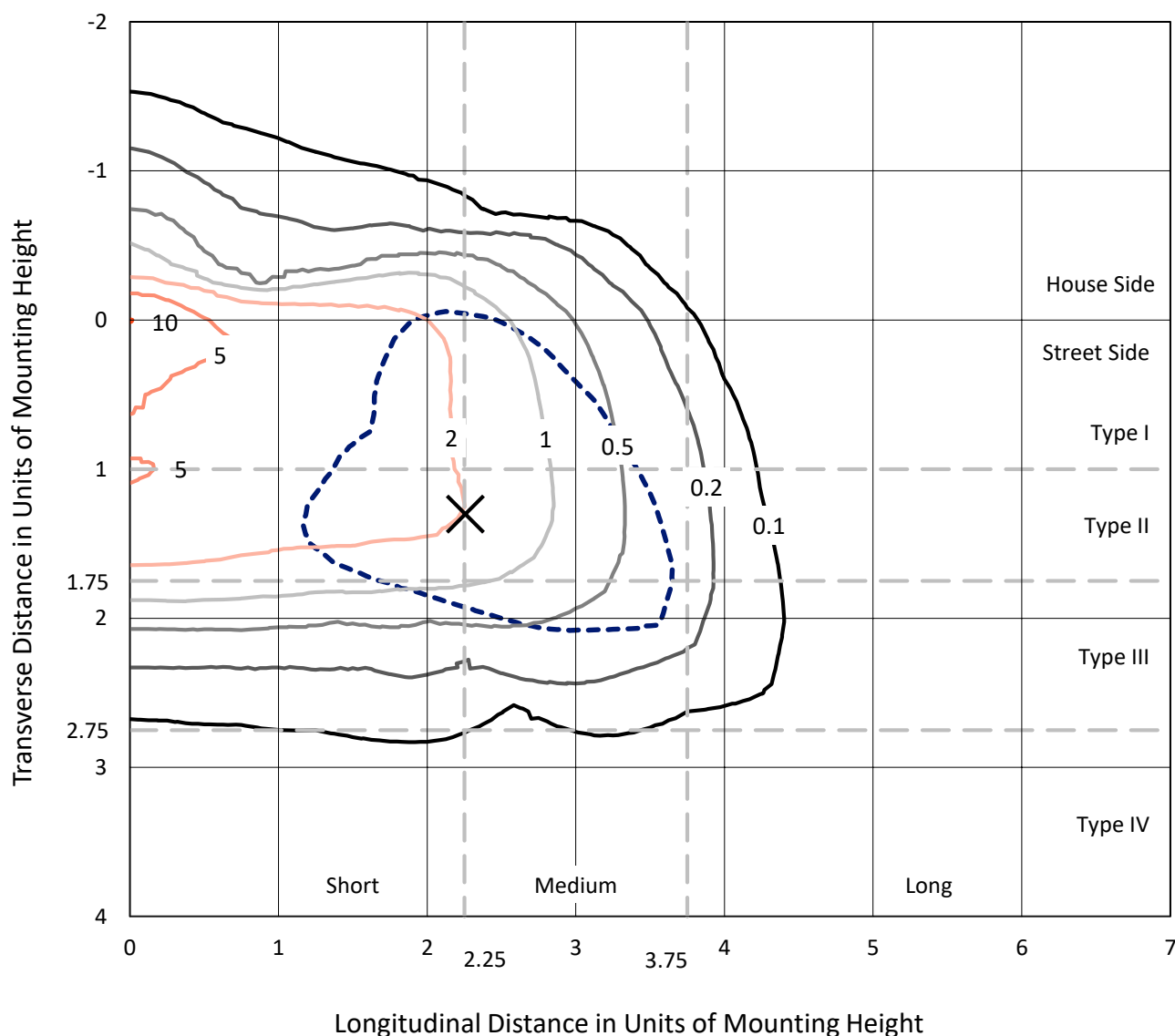
REPORT NUMBER: P192889

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7030-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

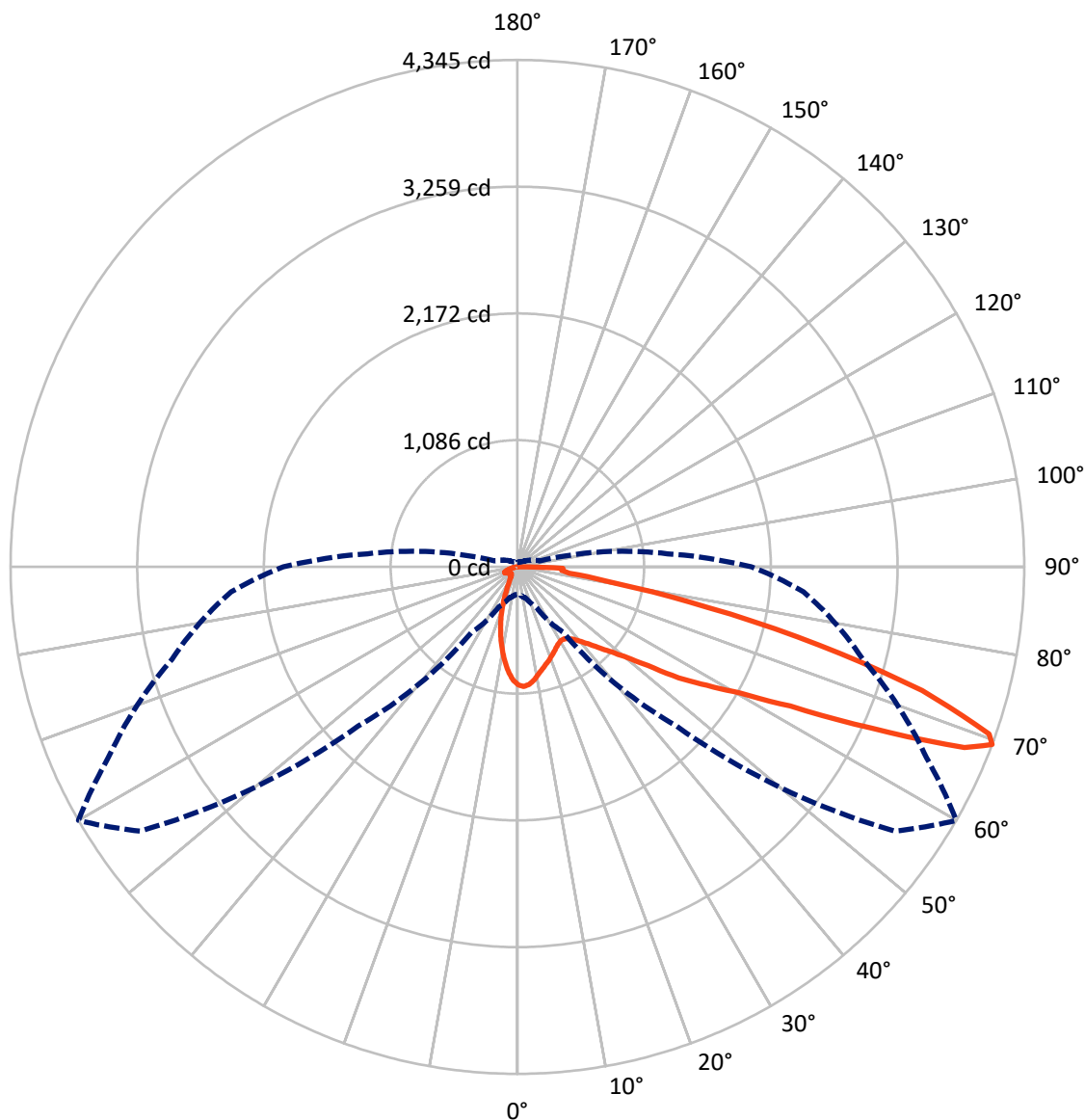


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P192889

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7030-600

## Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P192889

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7030-600

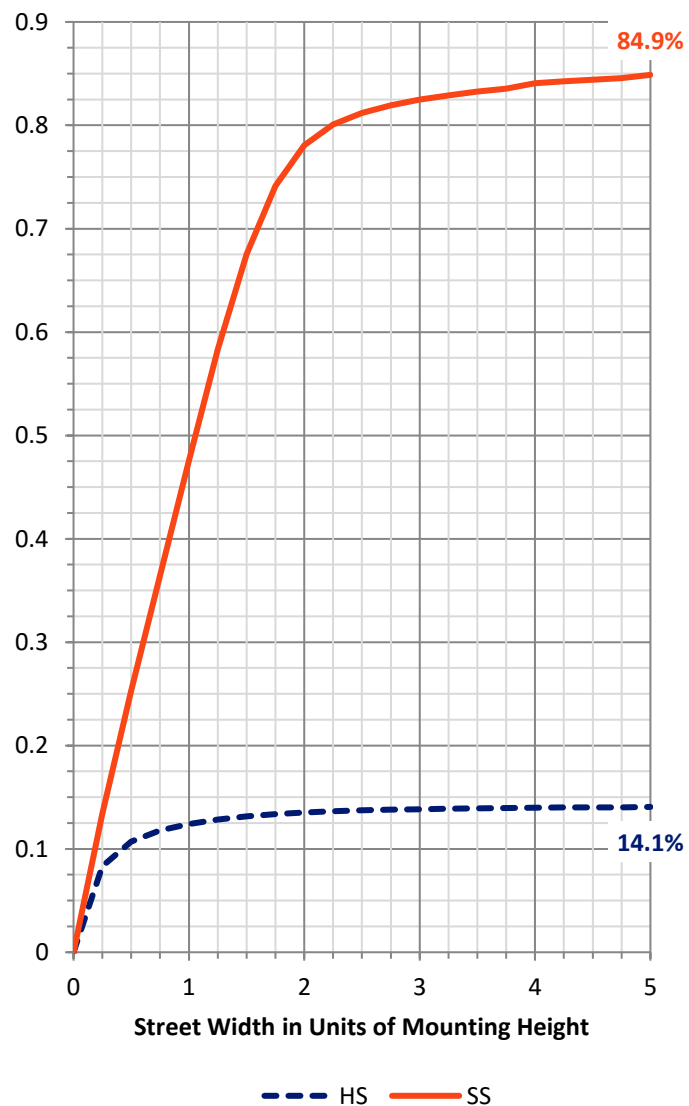
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 565.0    | 0.0    | 565.0  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 3406.5   | 0.0    | 3406.5 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 3971.6   | 0.0    | 3971.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.6   | 2.2       |
| 10°-20°   | 182.3  | 4.6       |
| 20°-30°   | 232.3  | 5.8       |
| 30°-40°   | 319.4  | 8.0       |
| 40°-50°   | 518.2  | 13.0      |
| 50°-60°   | 831.0  | 20.9      |
| 60°-70°   | 1106.0 | 27.8      |
| 70°-80°   | 597.2  | 15.0      |
| 80°-90°   | 99.6   | 2.5       |
| 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°    | 3971.6 | 100.0     |
| 0°-180°   | 3971.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192889

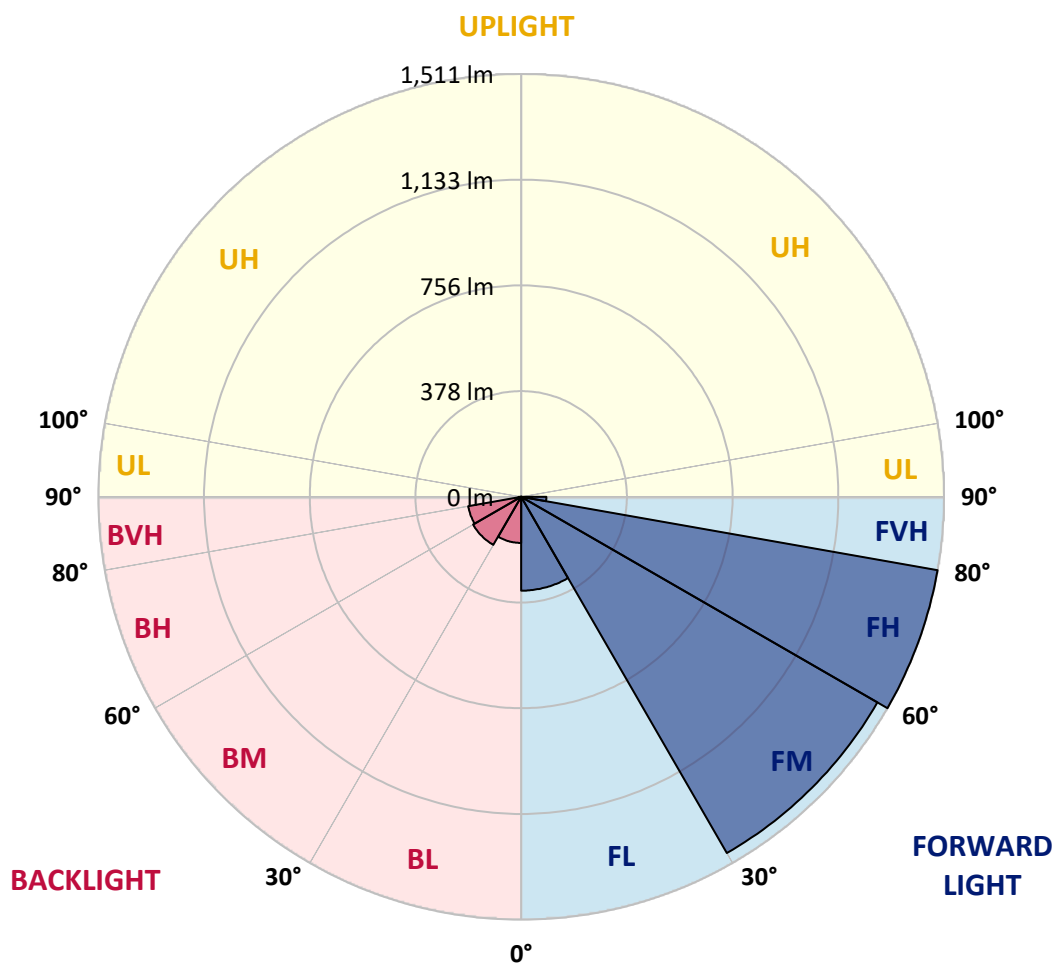
CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7030-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 335.3  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1470.0 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 1511.1 | 38.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 90.1   | 2.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 164.8  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 198.5  | 5.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 192.1  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.6    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium





REPORT NUMBER: P192889

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 |
| 2.5°  | 1032.7 | 1035.0 | 1034.0 | 1033.5 | 1035.2 | 1032.5 | 1026.9 | 1025.3 | 1022.5 | 1016.2 | 1005.5 |
| 5°    | 993.9  | 1001.0 | 1000.5 | 1005.7 | 1014.4 | 1016.6 | 1014.2 | 1014.5 | 1009.5 | 1001.7 | 983.8  |
| 7.5°  | 927.1  | 929.9  | 931.4  | 942.8  | 958.5  | 971.2  | 981.9  | 985.3  | 983.0  | 976.3  | 953.3  |
| 10°   | 858.0  | 860.3  | 863.9  | 877.2  | 897.1  | 914.6  | 934.9  | 946.6  | 951.5  | 950.4  | 924.8  |
| 12.5° | 798.6  | 801.0  | 805.8  | 820.7  | 844.6  | 866.0  | 895.6  | 910.1  | 922.0  | 929.1  | 901.5  |
| 15°   | 745.5  | 750.5  | 755.1  | 772.4  | 799.0  | 827.3  | 860.6  | 879.1  | 897.4  | 913.4  | 880.9  |
| 17.5° | 704.0  | 709.1  | 711.9  | 727.4  | 755.8  | 790.4  | 829.6  | 851.2  | 874.3  | 900.4  | 860.6  |
| 20°   | 680.1  | 682.5  | 681.2  | 690.1  | 715.6  | 752.2  | 798.6  | 823.9  | 851.6  | 888.1  | 840.3  |
| 22.5° | 673.4  | 673.6  | 669.3  | 668.4  | 684.9  | 715.7  | 765.7  | 796.2  | 830.4  | 880.0  | 822.8  |
| 25°   | 689.8  | 689.1  | 677.6  | 668.2  | 670.0  | 688.0  | 733.7  | 769.3  | 812.5  | 878.3  | 809.4  |
| 27.5° | 725.9  | 727.6  | 710.6  | 692.9  | 675.6  | 674.9  | 709.6  | 747.2  | 797.9  | 886.2  | 803.7  |
| 30°   | 776.9  | 779.7  | 761.4  | 739.0  | 706.3  | 679.1  | 700.3  | 733.7  | 788.9  | 902.5  | 802.7  |
| 32.5° | 832.4  | 835.5  | 821.7  | 798.1  | 755.1  | 705.3  | 706.8  | 735.0  | 788.6  | 925.3  | 809.3  |
| 35°   | 891.8  | 895.2  | 888.1  | 868.2  | 820.3  | 753.5  | 731.7  | 753.6  | 801.0  | 960.2  | 826.6  |
| 37.5° | 957.8  | 963.3  | 965.2  | 946.1  | 895.2  | 816.9  | 772.6  | 788.9  | 829.2  | 1008.8 | 858.8  |
| 40°   | 1053.3 | 1060.8 | 1060.2 | 1032.9 | 980.9  | 902.7  | 835.8  | 839.8  | 873.1  | 1073.6 | 909.9  |
| 42.5° | 1235.9 | 1237.5 | 1189.8 | 1130.4 | 1075.3 | 992.8  | 910.1  | 906.8  | 933.7  | 1155.8 | 985.3  |
| 45°   | 1468.2 | 1461.9 | 1355.6 | 1241.0 | 1174.0 | 1096.4 | 1007.1 | 990.1  | 1010.6 | 1255.8 | 1079.7 |
| 47.5° | 1661.1 | 1646.4 | 1512.1 | 1354.0 | 1278.4 | 1209.1 | 1120.8 | 1091.3 | 1102.5 | 1369.4 | 1201.8 |
| 50°   | 1728.1 | 1717.1 | 1605.8 | 1448.1 | 1377.1 | 1346.4 | 1260.9 | 1219.0 | 1222.1 | 1504.9 | 1344.7 |
| 52.5° | 1713.6 | 1712.1 | 1637.8 | 1510.1 | 1469.5 | 1490.8 | 1459.2 | 1402.7 | 1372.8 | 1655.3 | 1498.9 |
| 55°   | 1679.7 | 1682.9 | 1656.1 | 1582.2 | 1575.3 | 1629.9 | 1718.4 | 1676.6 | 1583.5 | 1807.0 | 1658.3 |
| 57.5° | 1561.7 | 1570.2 | 1629.2 | 1673.0 | 1745.4 | 1826.9 | 1927.2 | 1915.2 | 1810.5 | 1971.0 | 1847.9 |
| 60°   | 1258.1 | 1277.7 | 1436.2 | 1655.3 | 1920.7 | 2175.1 | 2219.9 | 2192.3 | 2044.6 | 2174.6 | 2098.4 |
| 62.5° | 881.5  | 901.9  | 1090.3 | 1433.2 | 1891.9 | 2568.3 | 2743.3 | 2624.2 | 2380.6 | 2474.5 | 2422.3 |
| 65°   | 472.0  | 481.8  | 625.6  | 994.4  | 1597.2 | 2649.4 | 3508.2 | 3327.0 | 2912.9 | 2844.2 | 2699.6 |
| 67.5° | 260.4  | 265.7  | 320.7  | 502.0  | 1023.0 | 2333.1 | 3995.5 | 4132.5 | 3578.0 | 3090.4 | 2649.1 |
| 69°   | 235.5  | 240.4  | 276.4  | 380.2  | 684.5  | 1929.1 | 3948.0 | 4344.9 | 3869.6 | 3066.1 | 2462.6 |
| 70°   | 230.2  | 234.8  | 267.2  | 350.5  | 554.1  | 1590.0 | 3788.4 | 4290.6 | 3939.2 | 2978.7 | 2299.9 |
| 72.5° | 207.1  | 212.2  | 243.6  | 314.7  | 473.5  | 792.7  | 3001.0 | 3627.7 | 3576.3 | 2582.7 | 1744.6 |
| 75°   | 193.2  | 197.8  | 251.2  | 308.3  | 453.3  | 501.7  | 1978.3 | 2673.7 | 2629.0 | 1806.7 | 940.6  |
| 77.5° | 82.7   | 82.3   | 116.5  | 260.9  | 460.1  | 485.7  | 1063.1 | 1670.2 | 1523.8 | 772.3  | 270.1  |
| 80°   | 55.2   | 54.3   | 55.2   | 76.7   | 421.8  | 488.5  | 556.9  | 847.8  | 640.4  | 196.8  | 133.2  |
| 82.5° | 47.5   | 46.8   | 48.5   | 46.8   | 148.3  | 557.6  | 473.5  | 450.8  | 304.5  | 111.9  | 66.0   |
| 85°   | 32.0   | 30.7   | 41.8   | 42.1   | 70.0   | 495.4  | 533.3  | 380.9  | 246.4  | 66.4   | 32.7   |
| 87.5° | 15.3   | 15.0   | 24.4   | 29.7   | 41.1   | 201.2  | 598.4  | 390.3  | 248.4  | 34.0   | 15.6   |
| 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: P192889

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7030-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 | 1012.1 |
| 2.5°  | 1002.2 | 994.4  | 986.7  | 977.5  | 967.9  | 957.1  | 951.7  | 946.4  | 945.1  | 943.6  | 938.1  |
| 5°    | 974.6  | 963.4  | 944.3  | 923.2  | 901.0  | 879.2  | 862.7  | 852.4  | 844.6  | 840.5  | 833.4  |
| 7.5°  | 939.0  | 922.5  | 889.1  | 852.6  | 815.2  | 780.9  | 751.4  | 732.9  | 715.2  | 707.0  | 697.6  |
| 10°   | 905.0  | 880.6  | 828.4  | 774.6  | 721.0  | 669.3  | 620.8  | 586.5  | 556.0  | 538.8  | 526.8  |
| 12.5° | 875.8  | 842.4  | 770.1  | 697.4  | 623.8  | 550.2  | 477.6  | 420.3  | 372.6  | 347.5  | 334.6  |
| 15°   | 847.5  | 807.1  | 714.7  | 622.3  | 527.8  | 427.9  | 332.2  | 267.4  | 228.0  | 212.2  | 206.8  |
| 17.5° | 821.7  | 770.1  | 659.1  | 546.8  | 428.9  | 307.9  | 223.3  | 187.6  | 172.5  | 167.2  | 165.5  |
| 20°   | 793.9  | 732.7  | 601.3  | 467.7  | 325.6  | 215.2  | 174.4  | 158.7  | 152.5  | 151.0  | 150.2  |
| 22.5° | 767.0  | 695.9  | 546.0  | 383.2  | 233.9  | 166.2  | 149.8  | 143.3  | 142.4  | 143.6  | 143.6  |
| 25°   | 744.2  | 662.8  | 486.3  | 294.7  | 171.7  | 139.9  | 134.1  | 132.5  | 136.2  | 141.2  | 142.1  |
| 27.5° | 727.1  | 635.8  | 422.9  | 217.5  | 136.8  | 121.6  | 121.5  | 123.9  | 133.0  | 142.6  | 144.4  |
| 30°   | 715.4  | 610.1  | 354.9  | 156.9  | 114.7  | 107.1  | 110.2  | 115.5  | 128.7  | 142.4  | 146.0  |
| 32.5° | 709.4  | 591.1  | 284.2  | 121.5  | 98.3   | 94.0   | 99.2   | 105.8  | 118.8  | 131.4  | 136.2  |
| 35°   | 714.1  | 577.1  | 217.3  | 101.3  | 86.8   | 83.5   | 88.8   | 95.2   | 102.8  | 108.1  | 111.9  |
| 37.5° | 731.4  | 571.5  | 164.0  | 90.8   | 78.8   | 75.8   | 80.0   | 83.7   | 86.8   | 88.3   | 90.0   |
| 40°   | 768.5  | 577.4  | 131.4  | 85.3   | 74.4   | 70.6   | 72.3   | 73.6   | 75.6   | 77.1   | 77.9   |
| 42.5° | 823.4  | 595.4  | 117.8  | 83.2   | 72.1   | 66.5   | 66.2   | 66.7   | 69.3   | 72.1   | 72.6   |
| 45°   | 900.2  | 626.8  | 116.8  | 84.5   | 71.0   | 63.3   | 61.6   | 62.4   | 66.2   | 70.6   | 71.3   |
| 47.5° | 998.2  | 674.7  | 124.5  | 88.6   | 71.9   | 61.6   | 58.7   | 59.6   | 64.5   | 70.4   | 71.3   |
| 50°   | 1116.9 | 741.7  | 137.3  | 94.6   | 76.2   | 62.0   | 57.8   | 58.4   | 63.3   | 69.8   | 70.8   |
| 52.5° | 1257.2 | 836.7  | 151.4  | 100.3  | 80.6   | 64.5   | 58.6   | 57.2   | 61.7   | 67.5   | 68.8   |
| 55°   | 1413.2 | 958.5  | 165.7  | 105.6  | 82.9   | 67.5   | 60.1   | 55.6   | 58.9   | 63.7   | 64.7   |
| 57.5° | 1604.7 | 1128.8 | 190.6  | 110.5  | 84.4   | 69.6   | 61.6   | 54.1   | 55.2   | 58.7   | 59.4   |
| 60°   | 1863.9 | 1369.8 | 234.7  | 118.8  | 87.9   | 70.4   | 61.4   | 52.8   | 51.6   | 53.5   | 53.9   |
| 62.5° | 2174.5 | 1631.5 | 271.3  | 129.2  | 93.6   | 71.0   | 60.2   | 51.8   | 48.5   | 48.5   | 48.9   |
| 65°   | 2358.8 | 1701.5 | 251.0  | 137.7  | 98.5   | 70.4   | 58.9   | 50.8   | 46.2   | 44.1   | 44.4   |
| 67.5° | 2202.4 | 1496.5 | 215.0  | 139.6  | 98.3   | 67.7   | 56.9   | 49.1   | 43.9   | 40.7   | 40.5   |
| 69°   | 2006.5 | 1291.1 | 199.0  | 134.8  | 93.6   | 64.3   | 54.1   | 47.2   | 42.2   | 38.8   | 38.6   |
| 70°   | 1848.6 | 1165.9 | 188.4  | 129.9  | 88.6   | 61.7   | 52.0   | 45.5   | 40.9   | 37.5   | 37.2   |
| 72.5° | 1344.1 | 763.9  | 160.9  | 111.7  | 73.1   | 51.8   | 44.9   | 39.9   | 36.5   | 34.5   | 34.2   |
| 75°   | 671.7  | 364.4  | 130.7  | 90.5   | 56.0   | 41.4   | 36.8   | 33.5   | 31.6   | 31.2   | 31.0   |
| 77.5° | 220.6  | 166.9  | 93.4   | 67.5   | 41.6   | 32.4   | 29.7   | 27.2   | 26.9   | 28.0   | 27.7   |
| 80°   | 121.3  | 97.1   | 59.3   | 44.7   | 28.4   | 23.8   | 23.4   | 22.1   | 22.6   | 24.6   | 24.1   |
| 82.5° | 61.7   | 50.5   | 36.6   | 26.9   | 19.2   | 17.1   | 18.6   | 17.8   | 18.6   | 20.3   | 20.1   |
| 85°   | 30.5   | 27.7   | 23.2   | 16.3   | 12.7   | 10.9   | 13.2   | 13.7   | 14.2   | 15.6   | 15.6   |
| 87.5° | 17.7   | 16.3   | 12.2   | 7.6    | 6.3    | 5.8    | 7.6    | 7.4    | 8.8    | 9.7    | 9.4    |
| 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)