

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: P191049

Luminaire Tested: **GAN-AF-01-LED-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5280.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

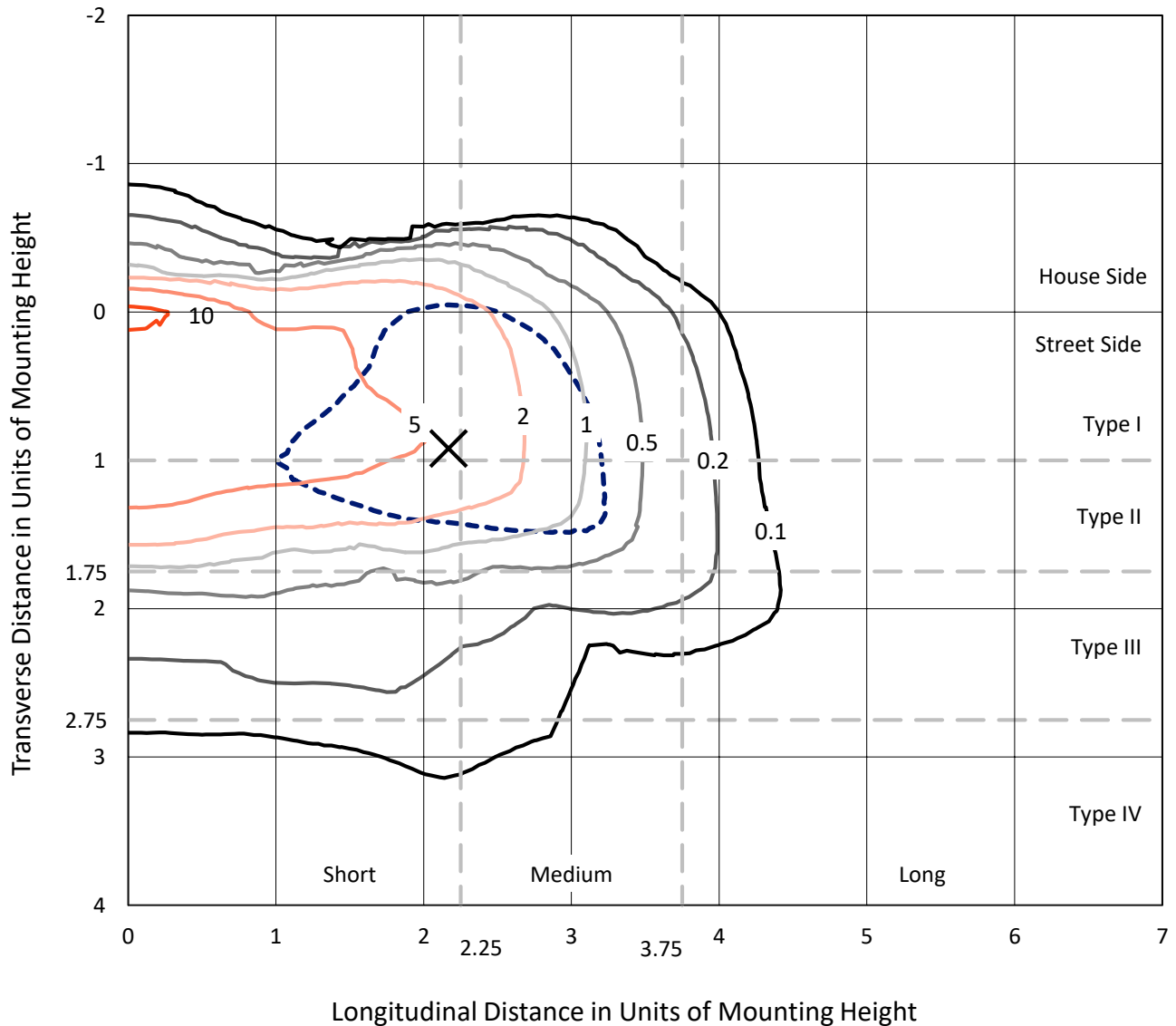
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191049
 CATALOG NUMBER: GAN-AF-01-LED-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

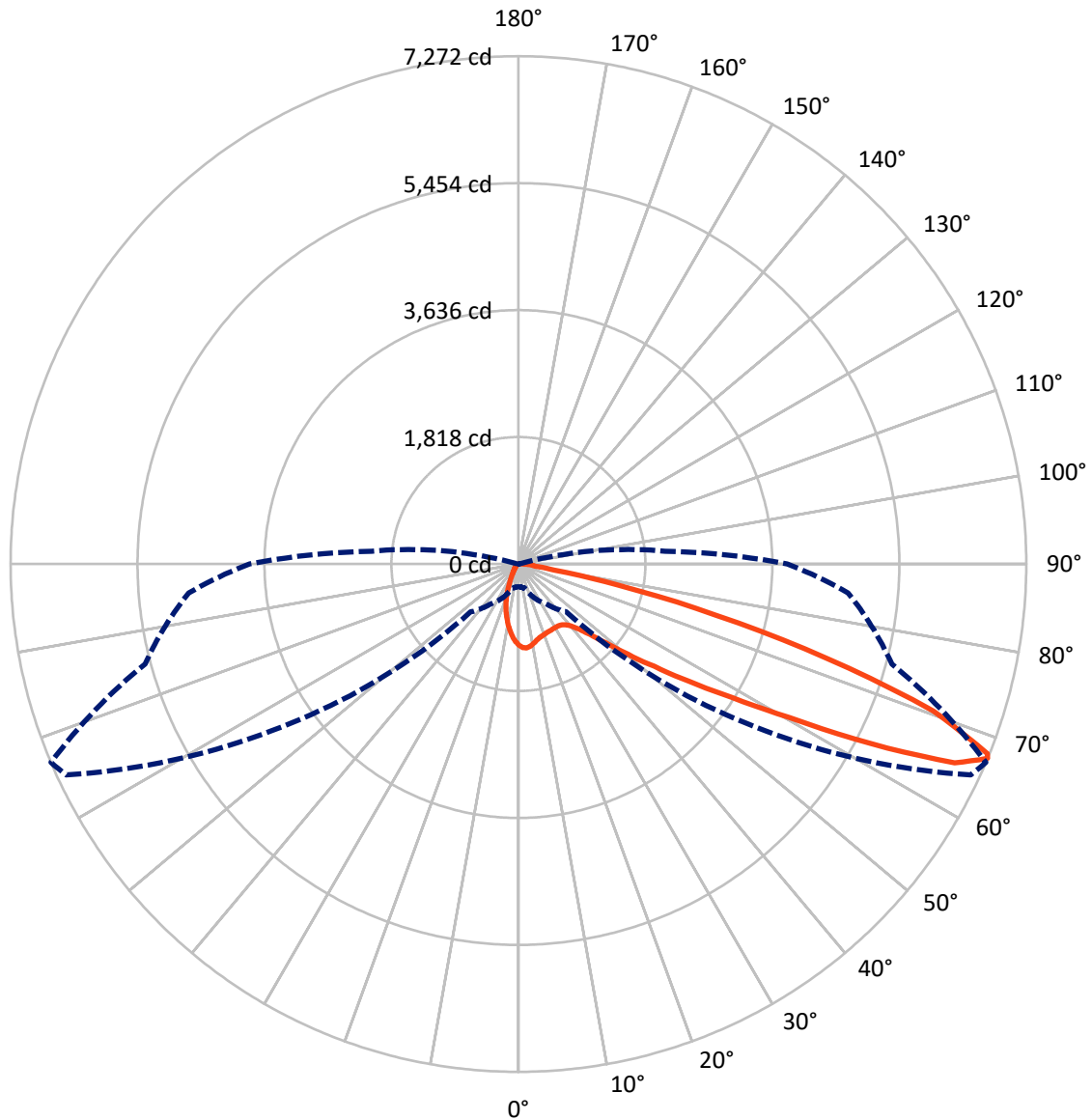
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-01-LED-U-SL2-HSS

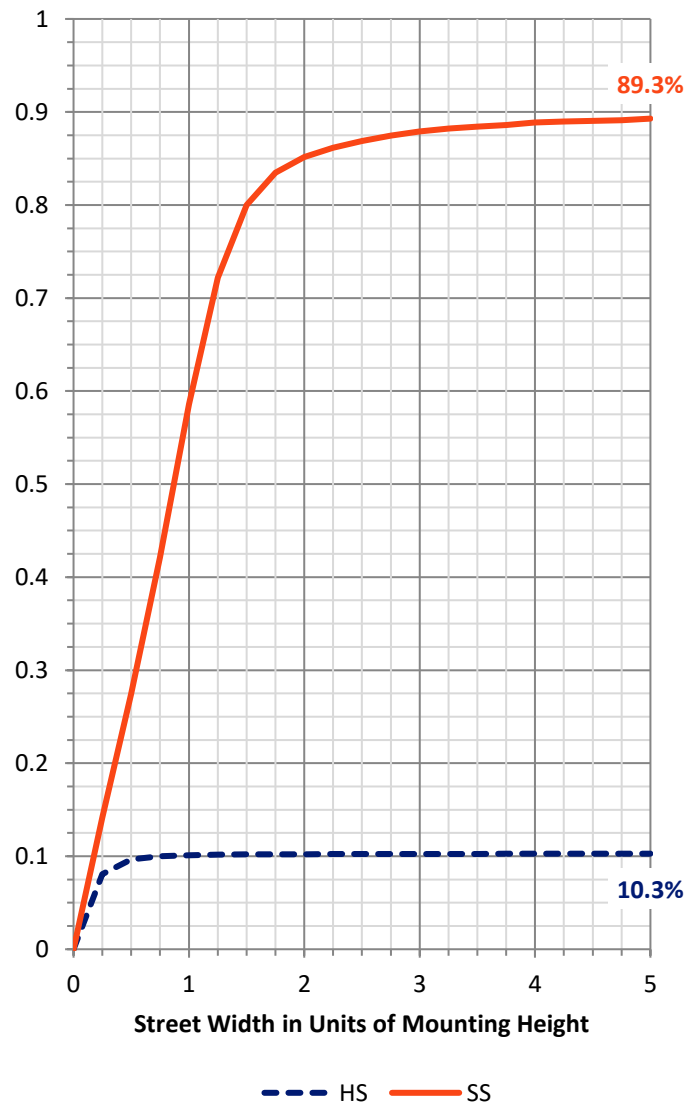
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 548.3 | 0.0 | 548.3 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 4732.2 | 0.0 | 4732.2 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 5280.5 | 0.0 | 5280.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.8 | 1.8 |
| 10°-20° | 201.7 | 3.8 |
| 20°-30° | 293.2 | 5.6 |
| 30°-40° | 457.4 | 8.7 |
| 40°-50° | 810.3 | 15.3 |
| 50°-60° | 1282.3 | 24.3 |
| 60°-70° | 1468.7 | 27.8 |
| 70°-80° | 609.2 | 11.5 |
| 80°-90° | 62.9 | 1.2 |
| 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° | 5280.5 | 100.0 |
| 0°-180° | 5280.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191049

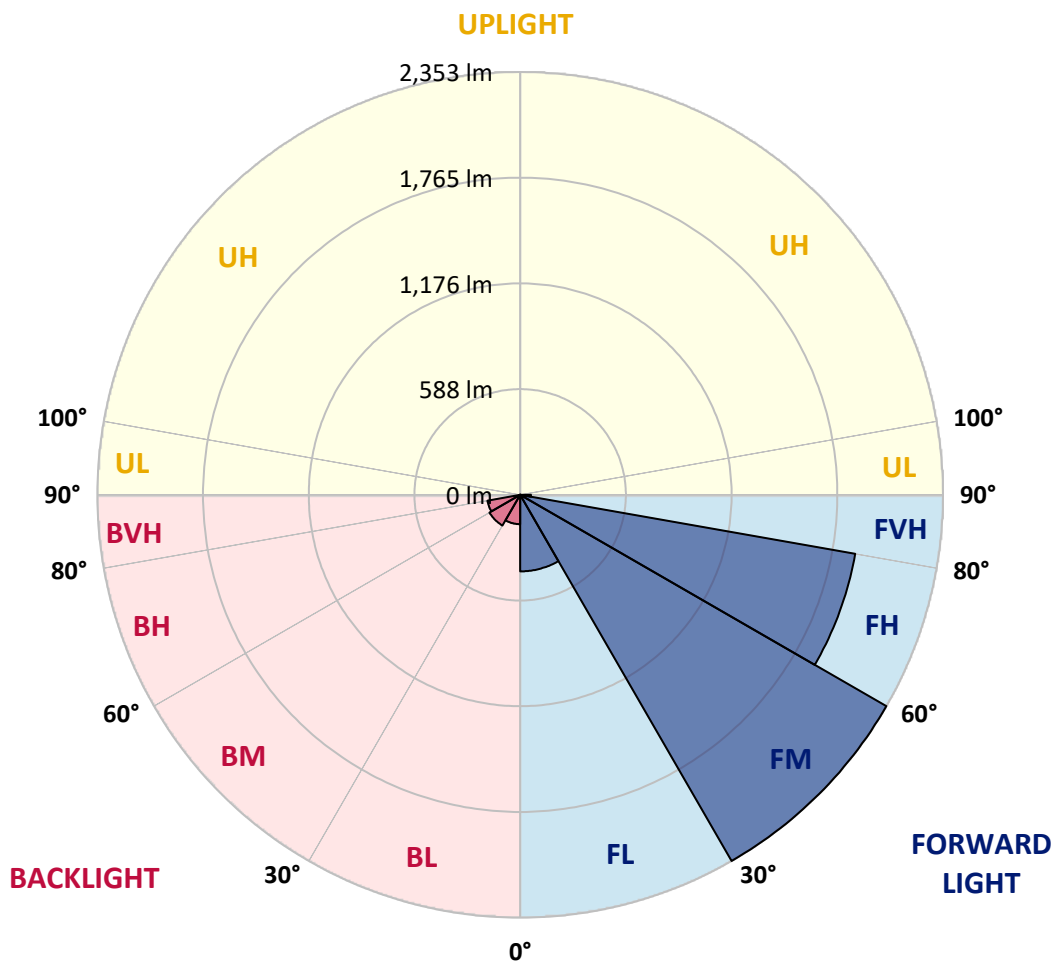
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 426.1 | 8.1 | | | |
| FM (30°-60°) | 2353.0 | 44.6 | | | |
| FH (60°-80°) | 1893.1 | 35.9 | | | G2/5000 |
| FVH (80°-90°) | 60.1 | 1.1 | | | G1/100 |
| BL (0°-30°) | 163.6 | 3.1 | B1/500 | | |
| BM (30°-60°) | 197.0 | 3.7 | B0/220 | | |
| BH (60°-80°) | 184.8 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.8 | 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-G2

Type II Short





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CATALOG NUMBER: GAN-AF-01-LED-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 |
| 2.5° | 1204.0 | 1206.5 | 1206.2 | 1208.0 | 1212.3 | 1212.6 | 1208.3 | 1199.9 | 1198.1 | 1187.3 | 1168.5 |
| 5° | 1110.3 | 1117.4 | 1121.8 | 1139.3 | 1159.0 | 1182.7 | 1200.5 | 1207.1 | 1206.2 | 1198.4 | 1170.1 |
| 7.5° | 1003.4 | 1010.6 | 1015.5 | 1036.1 | 1062.3 | 1102.9 | 1149.5 | 1187.6 | 1191.0 | 1199.3 | 1168.8 |
| 10° | 932.3 | 933.5 | 940.3 | 960.0 | 987.5 | 1029.0 | 1084.4 | 1151.3 | 1161.5 | 1191.9 | 1165.8 |
| 12.5° | 873.8 | 874.7 | 883.6 | 904.9 | 934.2 | 976.0 | 1034.3 | 1111.5 | 1127.3 | 1182.7 | 1165.1 |
| 15° | 832.2 | 835.6 | 843.6 | 865.8 | 896.9 | 938.5 | 998.2 | 1082.3 | 1101.1 | 1179.4 | 1170.7 |
| 17.5° | 818.4 | 822.0 | 824.5 | 840.6 | 868.9 | 909.5 | 970.8 | 1063.3 | 1084.4 | 1181.2 | 1181.5 |
| 20° | 832.8 | 835.6 | 830.0 | 834.0 | 851.6 | 887.9 | 947.7 | 1046.9 | 1072.2 | 1183.3 | 1195.3 |
| 22.5° | 886.7 | 887.9 | 872.9 | 855.3 | 852.2 | 872.3 | 929.6 | 1034.0 | 1061.0 | 1189.2 | 1211.7 |
| 25° | 979.2 | 976.9 | 952.4 | 914.4 | 878.7 | 869.5 | 918.7 | 1025.9 | 1055.5 | 1195.3 | 1228.6 |
| 27.5° | 1090.7 | 1093.7 | 1059.8 | 1004.6 | 936.6 | 887.9 | 917.2 | 1022.5 | 1053.0 | 1199.6 | 1243.4 |
| 30° | 1226.1 | 1230.4 | 1191.6 | 1122.4 | 1024.7 | 933.5 | 931.4 | 1021.9 | 1051.5 | 1196.9 | 1244.6 |
| 32.5° | 1364.4 | 1369.6 | 1339.1 | 1267.7 | 1142.3 | 1010.0 | 963.4 | 1028.7 | 1054.6 | 1187.3 | 1237.6 |
| 35° | 1509.2 | 1516.6 | 1496.3 | 1435.0 | 1301.9 | 1120.2 | 1019.8 | 1049.3 | 1069.1 | 1186.4 | 1230.4 |
| 37.5° | 1709.0 | 1715.9 | 1677.6 | 1612.7 | 1495.0 | 1268.0 | 1110.3 | 1088.1 | 1103.3 | 1201.1 | 1232.3 |
| 40° | 2007.5 | 2006.6 | 1908.0 | 1808.6 | 1707.2 | 1455.9 | 1237.6 | 1158.4 | 1166.1 | 1245.9 | 1255.1 |
| 42.5° | 2332.7 | 2331.2 | 2185.5 | 2034.3 | 1942.9 | 1687.3 | 1404.8 | 1279.7 | 1274.5 | 1328.1 | 1314.2 |
| 45° | 2583.5 | 2583.2 | 2464.3 | 2294.0 | 2226.6 | 1952.7 | 1621.0 | 1448.5 | 1440.5 | 1461.8 | 1423.2 |
| 47.5° | 2690.4 | 2692.2 | 2632.5 | 2512.7 | 2541.0 | 2311.9 | 1893.6 | 1693.1 | 1681.0 | 1672.4 | 1613.9 |
| 50° | 2607.2 | 2610.9 | 2615.8 | 2592.5 | 2771.7 | 2794.5 | 2259.2 | 2037.7 | 2031.9 | 1993.3 | 1901.9 |
| 52.5° | 2335.5 | 2354.3 | 2412.2 | 2486.5 | 2851.8 | 3257.7 | 2832.3 | 2465.8 | 2434.4 | 2393.5 | 2292.7 |
| 55° | 1877.8 | 1898.5 | 2008.5 | 2188.6 | 2732.5 | 3562.0 | 3635.6 | 3017.8 | 2965.4 | 2843.1 | 2697.7 |
| 57.5° | 1242.8 | 1274.8 | 1434.4 | 1663.5 | 2386.3 | 3610.9 | 4437.0 | 3783.8 | 3601.4 | 3266.6 | 3102.8 |
| 60° | 684.7 | 715.5 | 888.5 | 1096.2 | 1723.6 | 3368.9 | 4976.0 | 4781.1 | 4458.8 | 3740.0 | 3594.6 |
| 62.5° | 421.7 | 438.2 | 566.1 | 759.2 | 1033.6 | 2659.0 | 5087.5 | 6034.3 | 5661.3 | 4349.6 | 4188.8 |
| 65° | 335.7 | 342.8 | 405.3 | 620.6 | 741.0 | 1581.6 | 4727.5 | 6989.7 | 6865.2 | 5087.5 | 4720.7 |
| 67° | 325.9 | 328.7 | 358.2 | 532.9 | 698.6 | 969.6 | 3960.6 | 7145.2 | 7271.5 | 5534.1 | 4737.3 |
| 67.5° | 328.1 | 331.1 | 359.2 | 508.5 | 697.3 | 891.0 | 3696.3 | 7083.9 | 7243.5 | 5569.6 | 4663.7 |
| 70° | 316.3 | 325.9 | 411.2 | 508.2 | 663.1 | 740.4 | 2213.6 | 6137.8 | 6303.8 | 5175.0 | 3957.2 |
| 72.5° | 112.1 | 112.7 | 177.7 | 411.2 | 721.0 | 748.4 | 1111.5 | 4499.6 | 4622.4 | 3958.7 | 2853.0 |
| 75° | 66.5 | 56.7 | 59.1 | 117.0 | 689.0 | 726.9 | 641.3 | 2875.2 | 2921.0 | 2268.4 | 1444.8 |
| 77.5° | 45.9 | 40.0 | 41.2 | 51.8 | 262.4 | 716.7 | 509.4 | 1499.3 | 1450.3 | 795.5 | 307.7 |
| 80° | 26.2 | 23.1 | 24.7 | 45.3 | 95.4 | 668.7 | 480.5 | 607.9 | 518.3 | 134.9 | 85.0 |
| 82.5° | 13.8 | 11.7 | 14.2 | 37.2 | 66.5 | 416.8 | 481.4 | 293.8 | 232.8 | 45.6 | 57.9 |
| 85° | 4.9 | 4.0 | 6.8 | 25.6 | 44.4 | 127.9 | 446.3 | 247.0 | 194.1 | 22.2 | 44.1 |
| 87.5° | 0.9 | 0.9 | 2.8 | 10.4 | 17.9 | 39.1 | 263.9 | 146.6 | 98.2 | 13.2 | 30.2 |
| 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: P191049

CATALOG NUMBER: GAN-AF-01-LED-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 | 1164.5 |
| 2.5° | 1160.8 | 1147.6 | 1129.7 | 1107.9 | 1082.0 | 1059.2 | 1042.3 | 1024.7 | 1021.0 | 1014.9 | 1013.9 |
| 5° | 1153.2 | 1130.4 | 1086.0 | 1035.2 | 981.0 | 932.0 | 892.3 | 856.8 | 841.2 | 827.6 | 826.0 |
| 7.5° | 1141.7 | 1107.5 | 1032.1 | 950.2 | 865.5 | 788.5 | 723.2 | 677.0 | 634.4 | 614.2 | 611.1 |
| 10° | 1128.5 | 1079.5 | 971.4 | 857.7 | 740.7 | 632.0 | 535.0 | 453.7 | 404.4 | 375.1 | 371.4 |
| 12.5° | 1116.1 | 1052.1 | 909.5 | 762.0 | 606.4 | 461.0 | 336.3 | 258.7 | 206.9 | 186.1 | 183.5 |
| 15° | 1110.3 | 1029.9 | 851.6 | 664.0 | 466.0 | 293.5 | 183.8 | 142.3 | 125.3 | 120.4 | 120.1 |
| 17.5° | 1109.7 | 1011.2 | 794.9 | 562.7 | 326.5 | 170.6 | 119.8 | 109.4 | 106.0 | 104.8 | 104.8 |
| 20° | 1109.4 | 993.3 | 738.3 | 457.7 | 207.2 | 113.6 | 99.8 | 97.3 | 94.8 | 93.3 | 93.3 |
| 22.5° | 1112.8 | 977.3 | 679.1 | 350.5 | 130.6 | 92.1 | 87.8 | 85.3 | 82.2 | 80.1 | 79.8 |
| 25° | 1116.1 | 964.9 | 618.8 | 249.5 | 94.5 | 80.1 | 75.8 | 72.4 | 68.0 | 65.3 | 65.0 |
| 27.5° | 1116.8 | 949.6 | 554.1 | 166.9 | 79.2 | 69.9 | 64.3 | 59.1 | 54.2 | 51.5 | 51.1 |
| 30° | 1107.5 | 923.7 | 482.3 | 112.7 | 69.9 | 60.7 | 53.3 | 47.8 | 43.2 | 40.9 | 40.9 |
| 32.5° | 1089.3 | 891.6 | 403.5 | 85.0 | 62.2 | 52.1 | 44.1 | 38.8 | 35.7 | 34.8 | 34.5 |
| 35° | 1073.1 | 857.1 | 322.4 | 72.1 | 55.8 | 44.1 | 36.0 | 32.6 | 30.8 | 30.5 | 30.2 |
| 37.5° | 1063.6 | 829.4 | 246.4 | 65.3 | 49.6 | 36.9 | 30.5 | 28.0 | 27.1 | 26.5 | 26.8 |
| 40° | 1070.9 | 806.3 | 182.0 | 59.7 | 43.5 | 30.8 | 25.9 | 24.7 | 23.7 | 23.4 | 23.4 |
| 42.5° | 1103.3 | 802.3 | 135.2 | 54.8 | 37.5 | 25.6 | 22.5 | 21.6 | 21.0 | 20.7 | 21.0 |
| 45° | 1188.3 | 827.0 | 105.1 | 50.2 | 31.7 | 21.6 | 19.1 | 18.8 | 18.5 | 18.5 | 18.5 |
| 47.5° | 1316.0 | 877.8 | 87.5 | 45.0 | 26.5 | 18.5 | 16.7 | 16.4 | 16.1 | 16.4 | 16.4 |
| 50° | 1532.6 | 970.8 | 78.3 | 39.7 | 21.9 | 15.8 | 14.2 | 14.2 | 14.2 | 14.2 | 14.5 |
| 52.5° | 1861.9 | 1153.8 | 72.1 | 34.5 | 17.9 | 13.2 | 12.0 | 12.0 | 12.3 | 12.3 | 12.6 |
| 55° | 2228.7 | 1396.4 | 66.5 | 29.3 | 15.1 | 11.0 | 9.8 | 10.1 | 10.4 | 10.7 | 10.7 |
| 57.5° | 2626.6 | 1665.4 | 61.9 | 24.0 | 12.9 | 8.9 | 8.3 | 8.6 | 8.9 | 9.5 | 9.5 |
| 60° | 3106.8 | 1956.4 | 55.1 | 18.8 | 10.7 | 7.1 | 6.4 | 7.1 | 8.0 | 8.6 | 8.9 |
| 62.5° | 3634.0 | 2237.9 | 46.5 | 14.8 | 8.9 | 5.5 | 5.2 | 6.4 | 7.7 | 8.3 | 8.6 |
| 65° | 3994.4 | 2326.3 | 35.7 | 12.0 | 6.8 | 4.0 | 4.3 | 5.8 | 7.4 | 8.3 | 8.3 |
| 67° | 3848.4 | 2109.1 | 29.3 | 10.1 | 5.5 | 3.1 | 4.0 | 5.8 | 7.4 | 8.0 | 8.3 |
| 67.5° | 3747.1 | 2024.1 | 28.0 | 9.8 | 5.2 | 3.1 | 4.0 | 5.8 | 7.4 | 8.3 | 8.3 |
| 70° | 3048.9 | 1520.6 | 23.4 | 7.4 | 4.3 | 2.8 | 3.4 | 5.5 | 7.1 | 8.0 | 8.0 |
| 72.5° | 2118.4 | 937.5 | 21.0 | 5.2 | 3.7 | 2.5 | 3.1 | 5.2 | 6.8 | 7.7 | 8.0 |
| 75° | 1007.2 | 339.4 | 17.9 | 4.0 | 3.4 | 2.1 | 2.8 | 5.2 | 6.8 | 7.7 | 7.7 |
| 77.5° | 205.4 | 78.9 | 14.5 | 3.4 | 2.8 | 2.1 | 2.5 | 4.9 | 6.4 | 7.4 | 7.4 |
| 80° | 67.4 | 30.5 | 10.7 | 3.1 | 2.8 | 2.1 | 2.5 | 4.6 | 6.4 | 7.1 | 7.4 |
| 82.5° | 48.7 | 15.4 | 7.1 | 3.1 | 2.8 | 2.1 | 2.1 | 4.6 | 6.1 | 7.1 | 7.1 |
| 85° | 37.2 | 10.7 | 4.6 | 3.1 | 2.8 | 2.1 | 2.1 | 4.3 | 5.8 | 6.8 | 6.8 |
| 87.5° | 24.7 | 4.3 | 3.7 | 3.1 | 2.8 | 2.1 | 2.1 | 4.3 | 5.5 | 6.4 | 6.8 |
| 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)