

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: P192940

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7723.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

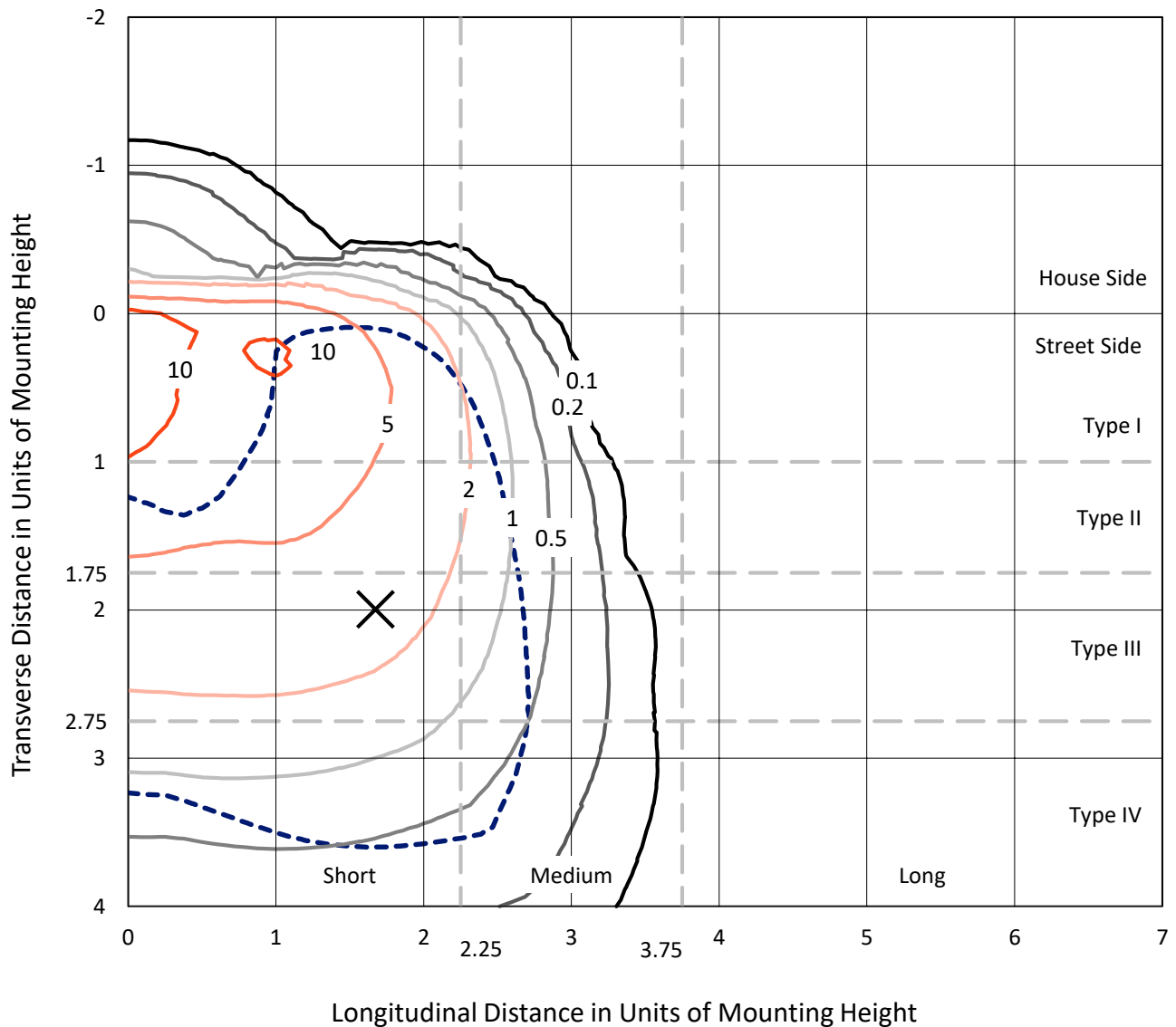


REPORT NUMBER: P192940

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

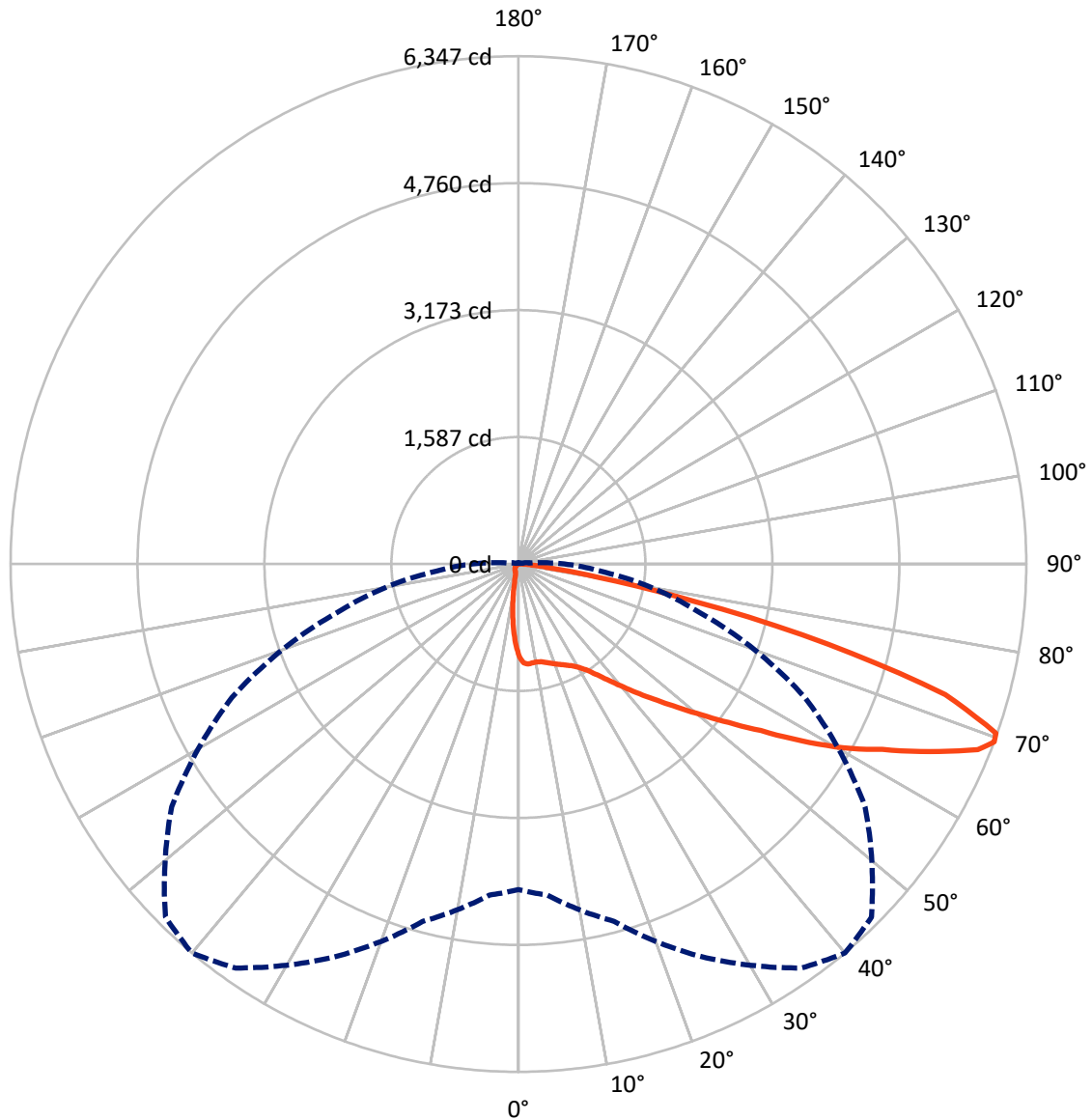


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192940

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P192940

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 451.9 | 0.0 | 451.9 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 7271.7 | 0.0 | 7271.7 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 7723.5 | 0.0 | 7723.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.6 | 1.2 |
| 10°-20° | 230.1 | 3.0 |
| 20°-30° | 387.5 | 5.0 |
| 30°-40° | 634.4 | 8.2 |
| 40°-50° | 1098.5 | 14.2 |
| 50°-60° | 1730.2 | 22.4 |
| 60°-70° | 2259.6 | 29.3 |
| 70°-80° | 1163.8 | 15.1 |
| 80°-90° | 125.9 | 1.6 |
| 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° | 7723.5 | 100.0 |
| 0°-180° | 7723.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192940

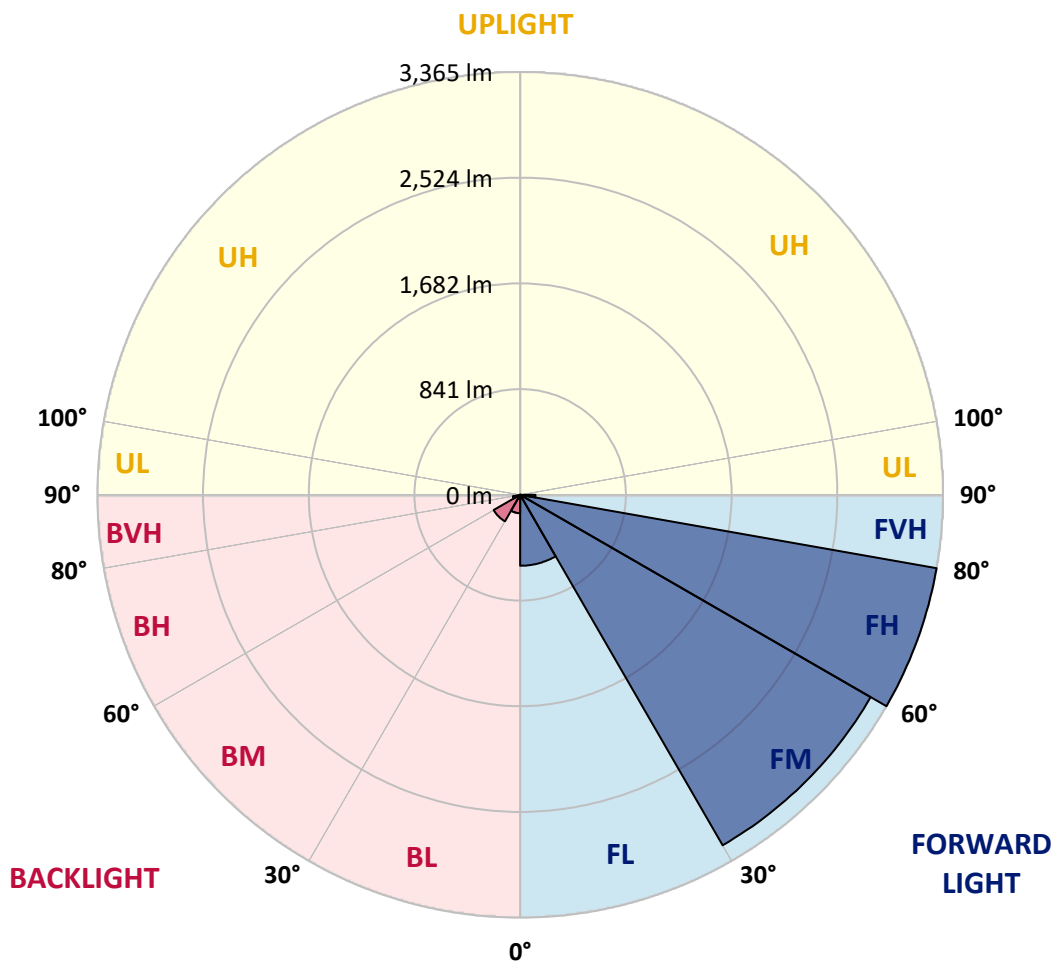
CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 564.8 | 7.3 | | | |
| FM | (30°-60°) | 3220.2 | 41.7 | | | |
| FH | (60°-80°) | 3364.7 | 43.6 | | | G2/5000 |
| FVH | (80°-90°) | 121.9 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 146.4 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 242.9 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 58.7 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.9 | 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 IV Short





REPORT NUMBER: P192940

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 |
| 2.5° | 1267.1 | 1260.1 | 1256.1 | 1250.5 | 1243.6 | 1237.6 | 1235.2 | 1218.4 | 1202.2 | 1180.1 | 1154.9 |
| 5° | 1290.5 | 1288.1 | 1280.8 | 1273.4 | 1265.2 | 1256.1 | 1250.9 | 1230.7 | 1207.8 | 1175.5 | 1131.4 |
| 7.5° | 1292.7 | 1290.1 | 1280.8 | 1270.6 | 1259.2 | 1248.2 | 1239.4 | 1219.3 | 1198.0 | 1165.5 | 1111.6 |
| 10° | 1289.1 | 1285.9 | 1279.0 | 1268.0 | 1253.8 | 1243.2 | 1234.4 | 1215.1 | 1197.2 | 1167.8 | 1108.0 |
| 12.5° | 1285.0 | 1281.7 | 1278.6 | 1273.0 | 1260.7 | 1253.2 | 1245.9 | 1227.5 | 1211.3 | 1186.5 | 1121.3 |
| 15° | 1289.1 | 1287.3 | 1290.9 | 1288.6 | 1281.7 | 1275.3 | 1268.0 | 1251.3 | 1236.7 | 1215.9 | 1145.7 |
| 17.5° | 1306.5 | 1306.5 | 1318.1 | 1319.5 | 1313.0 | 1303.8 | 1293.2 | 1276.7 | 1264.2 | 1246.7 | 1174.6 |
| 20° | 1347.5 | 1346.1 | 1360.9 | 1363.5 | 1347.9 | 1333.7 | 1318.1 | 1297.8 | 1288.1 | 1277.1 | 1203.2 |
| 22.5° | 1417.8 | 1411.4 | 1420.2 | 1417.3 | 1386.6 | 1364.5 | 1345.2 | 1320.4 | 1315.3 | 1310.2 | 1234.8 |
| 25° | 1509.3 | 1505.6 | 1511.6 | 1484.5 | 1430.2 | 1400.3 | 1377.3 | 1349.4 | 1349.4 | 1354.4 | 1270.6 |
| 27.5° | 1642.1 | 1628.4 | 1608.2 | 1560.3 | 1479.0 | 1440.8 | 1416.0 | 1386.1 | 1393.9 | 1412.7 | 1318.1 |
| 30° | 1778.3 | 1763.1 | 1716.7 | 1643.0 | 1538.3 | 1498.3 | 1469.3 | 1438.1 | 1456.4 | 1491.0 | 1381.5 |
| 32.5° | 1912.5 | 1895.5 | 1829.8 | 1736.9 | 1623.4 | 1583.2 | 1555.3 | 1520.8 | 1551.6 | 1609.5 | 1474.4 |
| 35° | 2042.6 | 2027.5 | 1951.6 | 1842.1 | 1736.4 | 1703.4 | 1677.5 | 1647.7 | 1687.2 | 1768.2 | 1605.3 |
| 37.5° | 2188.8 | 2172.3 | 2079.9 | 1961.2 | 1873.9 | 1850.0 | 1831.0 | 1801.2 | 1870.2 | 1988.8 | 1787.9 |
| 40° | 2368.5 | 2340.6 | 2215.9 | 2097.8 | 2033.0 | 2021.4 | 2008.6 | 2004.5 | 2111.6 | 2275.7 | 2031.1 |
| 42.5° | 2574.4 | 2528.6 | 2358.5 | 2241.7 | 2207.7 | 2215.9 | 2212.7 | 2231.1 | 2413.6 | 2632.5 | 2327.2 |
| 45° | 2780.4 | 2721.2 | 2517.0 | 2395.2 | 2399.8 | 2428.9 | 2446.8 | 2520.3 | 2792.0 | 3041.6 | 2645.8 |
| 47.5° | 2955.1 | 2896.8 | 2669.2 | 2561.1 | 2616.3 | 2673.3 | 2722.0 | 2861.4 | 3180.9 | 3444.3 | 2893.6 |
| 50° | 3104.6 | 3049.4 | 2830.6 | 2743.7 | 2867.8 | 2959.8 | 3038.8 | 3245.2 | 3599.2 | 3751.0 | 3067.4 |
| 52.5° | 3226.9 | 3190.2 | 2998.0 | 2952.8 | 3155.2 | 3289.9 | 3405.7 | 3653.1 | 3969.8 | 4000.2 | 3202.5 |
| 55° | 3345.9 | 3319.8 | 3177.7 | 3201.7 | 3492.6 | 3676.0 | 3822.7 | 4085.6 | 4288.9 | 4208.0 | 3332.2 |
| 57.5° | 3482.9 | 3459.0 | 3382.7 | 3516.9 | 3936.3 | 4167.0 | 4327.0 | 4469.1 | 4569.8 | 4420.4 | 3454.4 |
| 60° | 3622.7 | 3609.0 | 3610.8 | 3867.3 | 4445.6 | 4667.2 | 4755.5 | 4792.3 | 4845.6 | 4620.3 | 3461.4 |
| 62.5° | 3756.0 | 3782.2 | 3871.4 | 4257.2 | 4933.4 | 5103.5 | 5148.1 | 5184.5 | 5122.0 | 4652.0 | 3197.9 |
| 65° | 3981.7 | 4024.6 | 4237.4 | 4779.0 | 5469.9 | 5652.0 | 5698.0 | 5573.5 | 5165.6 | 4242.0 | 2601.1 |
| 67.5° | 4092.1 | 4170.2 | 4550.0 | 5265.3 | 5990.3 | 6192.6 | 6175.7 | 5598.7 | 4635.6 | 3234.7 | 1669.3 |
| 69° | 4069.2 | 4152.3 | 4622.2 | 5414.4 | 6163.2 | 6346.7 | 6238.6 | 5289.2 | 3949.1 | 2343.3 | 1024.8 |
| 70° | 3978.1 | 4062.3 | 4584.9 | 5408.8 | 6185.2 | 6330.6 | 6121.8 | 4907.3 | 3339.1 | 1713.4 | 641.0 |
| 72.5° | 3322.0 | 3394.6 | 4070.5 | 4888.8 | 5698.0 | 5579.8 | 5121.4 | 3399.7 | 1627.0 | 466.6 | 144.3 |
| 75° | 2044.9 | 2085.3 | 2920.7 | 3682.9 | 4303.6 | 4000.2 | 3412.1 | 1691.4 | 485.0 | 131.9 | 80.0 |
| 77.5° | 1080.3 | 1098.8 | 1599.0 | 2170.9 | 2728.1 | 2257.3 | 1748.8 | 659.7 | 223.4 | 82.7 | 57.9 |
| 80° | 638.6 | 652.4 | 861.1 | 992.6 | 1180.5 | 986.2 | 699.3 | 405.1 | 159.9 | 51.9 | 51.5 |
| 82.5° | 365.5 | 374.2 | 624.3 | 551.6 | 465.2 | 397.1 | 348.0 | 383.8 | 96.0 | 35.0 | 53.3 |
| 85° | 134.3 | 136.0 | 351.3 | 419.8 | 276.8 | 164.6 | 172.8 | 318.2 | 25.7 | 22.1 | 41.8 |
| 87.5° | 62.5 | 61.1 | 180.8 | 257.0 | 161.8 | 104.4 | 134.7 | 69.9 | 10.2 | 14.2 | 11.5 |
| 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: P192940

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-800-HSS-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 | 1153.9 |
| 2.5° | 1140.1 | 1123.1 | 1092.4 | 1060.6 | 1028.4 | 1003.6 | 979.3 | 960.0 | 953.5 | 941.5 | 942.5 |
| 5° | 1105.1 | 1073.9 | 1009.5 | 944.3 | 876.3 | 820.2 | 767.3 | 724.5 | 703.8 | 682.8 | 682.8 |
| 7.5° | 1074.9 | 1029.3 | 928.7 | 822.5 | 712.6 | 620.1 | 537.0 | 474.4 | 440.0 | 412.4 | 411.9 |
| 10° | 1063.4 | 1001.8 | 861.1 | 708.9 | 555.8 | 429.8 | 331.0 | 267.5 | 234.9 | 213.8 | 212.8 |
| 12.5° | 1068.4 | 992.1 | 809.2 | 604.1 | 411.9 | 276.3 | 191.7 | 150.8 | 137.0 | 130.6 | 130.6 |
| 15° | 1083.1 | 989.4 | 757.1 | 501.6 | 291.0 | 172.8 | 127.4 | 116.4 | 115.4 | 115.4 | 115.4 |
| 17.5° | 1101.2 | 990.2 | 703.8 | 401.8 | 198.2 | 123.7 | 110.0 | 108.5 | 109.4 | 109.4 | 109.4 |
| 20° | 1119.5 | 990.8 | 646.4 | 309.4 | 139.8 | 107.6 | 103.5 | 103.0 | 103.9 | 103.9 | 104.4 |
| 22.5° | 1142.0 | 993.0 | 588.9 | 231.2 | 115.4 | 101.6 | 98.4 | 98.4 | 98.9 | 98.9 | 98.4 |
| 25° | 1167.8 | 997.6 | 529.2 | 171.4 | 105.3 | 97.5 | 94.7 | 94.3 | 94.7 | 94.3 | 93.8 |
| 27.5° | 1199.8 | 1004.1 | 462.5 | 134.3 | 100.6 | 93.3 | 91.0 | 91.0 | 90.5 | 90.1 | 89.7 |
| 30° | 1240.4 | 1011.4 | 387.6 | 114.0 | 96.0 | 89.7 | 87.3 | 86.9 | 86.5 | 85.5 | 85.5 |
| 32.5° | 1302.0 | 1027.5 | 313.6 | 103.5 | 91.0 | 84.5 | 82.7 | 82.7 | 81.8 | 81.0 | 80.5 |
| 35° | 1396.7 | 1059.3 | 247.4 | 97.0 | 85.5 | 79.1 | 76.8 | 76.8 | 75.8 | 75.4 | 75.0 |
| 37.5° | 1527.7 | 1107.5 | 192.2 | 91.0 | 80.0 | 73.1 | 70.8 | 70.4 | 69.4 | 68.5 | 68.1 |
| 40° | 1701.9 | 1167.2 | 151.3 | 85.5 | 74.6 | 67.0 | 65.3 | 64.4 | 62.5 | 61.1 | 61.1 |
| 42.5° | 1920.8 | 1235.2 | 122.7 | 79.5 | 68.1 | 61.6 | 60.2 | 58.9 | 55.6 | 54.3 | 53.7 |
| 45° | 2149.6 | 1296.5 | 103.9 | 72.6 | 61.6 | 56.0 | 55.1 | 52.9 | 48.7 | 47.3 | 47.3 |
| 47.5° | 2314.7 | 1310.7 | 91.4 | 66.2 | 55.6 | 50.1 | 49.6 | 45.6 | 41.8 | 40.9 | 40.4 |
| 50° | 2417.8 | 1282.7 | 81.4 | 59.8 | 50.1 | 44.6 | 43.2 | 38.1 | 35.8 | 35.0 | 34.5 |
| 52.5° | 2487.2 | 1232.6 | 73.1 | 54.3 | 45.1 | 39.6 | 36.3 | 32.7 | 30.8 | 29.9 | 29.9 |
| 55° | 2542.8 | 1161.8 | 64.8 | 49.1 | 40.9 | 35.4 | 30.8 | 28.1 | 26.2 | 25.2 | 25.2 |
| 57.5° | 2558.5 | 1065.8 | 56.6 | 45.1 | 36.8 | 31.2 | 26.2 | 24.4 | 22.1 | 21.7 | 21.7 |
| 60° | 2444.9 | 892.3 | 50.1 | 40.0 | 33.1 | 27.1 | 23.0 | 20.6 | 18.3 | 17.9 | 17.5 |
| 62.5° | 2145.7 | 690.5 | 44.1 | 35.4 | 29.0 | 23.5 | 19.7 | 17.1 | 15.2 | 15.2 | 15.2 |
| 65° | 1636.7 | 462.9 | 38.6 | 30.8 | 25.2 | 19.7 | 17.1 | 13.7 | 12.9 | 12.9 | 13.3 |
| 67.5° | 979.7 | 252.0 | 33.1 | 26.2 | 21.7 | 16.5 | 14.2 | 11.9 | 11.5 | 11.9 | 11.9 |
| 69° | 574.1 | 148.0 | 29.9 | 23.5 | 18.9 | 14.7 | 12.4 | 10.6 | 11.5 | 11.9 | 11.9 |
| 70° | 354.4 | 99.8 | 27.6 | 21.2 | 17.1 | 13.3 | 11.5 | 10.2 | 11.0 | 11.5 | 11.5 |
| 72.5° | 98.9 | 51.5 | 22.1 | 16.5 | 13.7 | 11.0 | 9.2 | 9.2 | 10.6 | 11.0 | 11.0 |
| 75° | 64.4 | 38.1 | 17.1 | 12.4 | 10.6 | 8.7 | 7.8 | 8.7 | 10.2 | 10.6 | 10.6 |
| 77.5° | 53.3 | 31.2 | 13.7 | 10.2 | 8.7 | 8.3 | 7.3 | 7.8 | 9.2 | 9.7 | 9.7 |
| 80° | 48.7 | 22.1 | 11.0 | 9.2 | 7.8 | 7.3 | 6.9 | 6.4 | 8.3 | 8.7 | 8.7 |
| 82.5° | 46.4 | 17.5 | 9.7 | 8.3 | 7.3 | 6.4 | 6.0 | 6.4 | 7.3 | 7.8 | 8.3 |
| 85° | 29.0 | 11.5 | 8.7 | 7.8 | 6.4 | 6.0 | 6.0 | 6.0 | 6.9 | 7.3 | 7.3 |
| 87.5° | 10.6 | 9.2 | 7.8 | 6.4 | 5.5 | 5.5 | 5.5 | 5.5 | 6.0 | 6.9 | 6.9 |
| 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)