

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: P192981

Luminaire Tested: **GAN-AF-03-LED-U-SL4-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13492.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

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

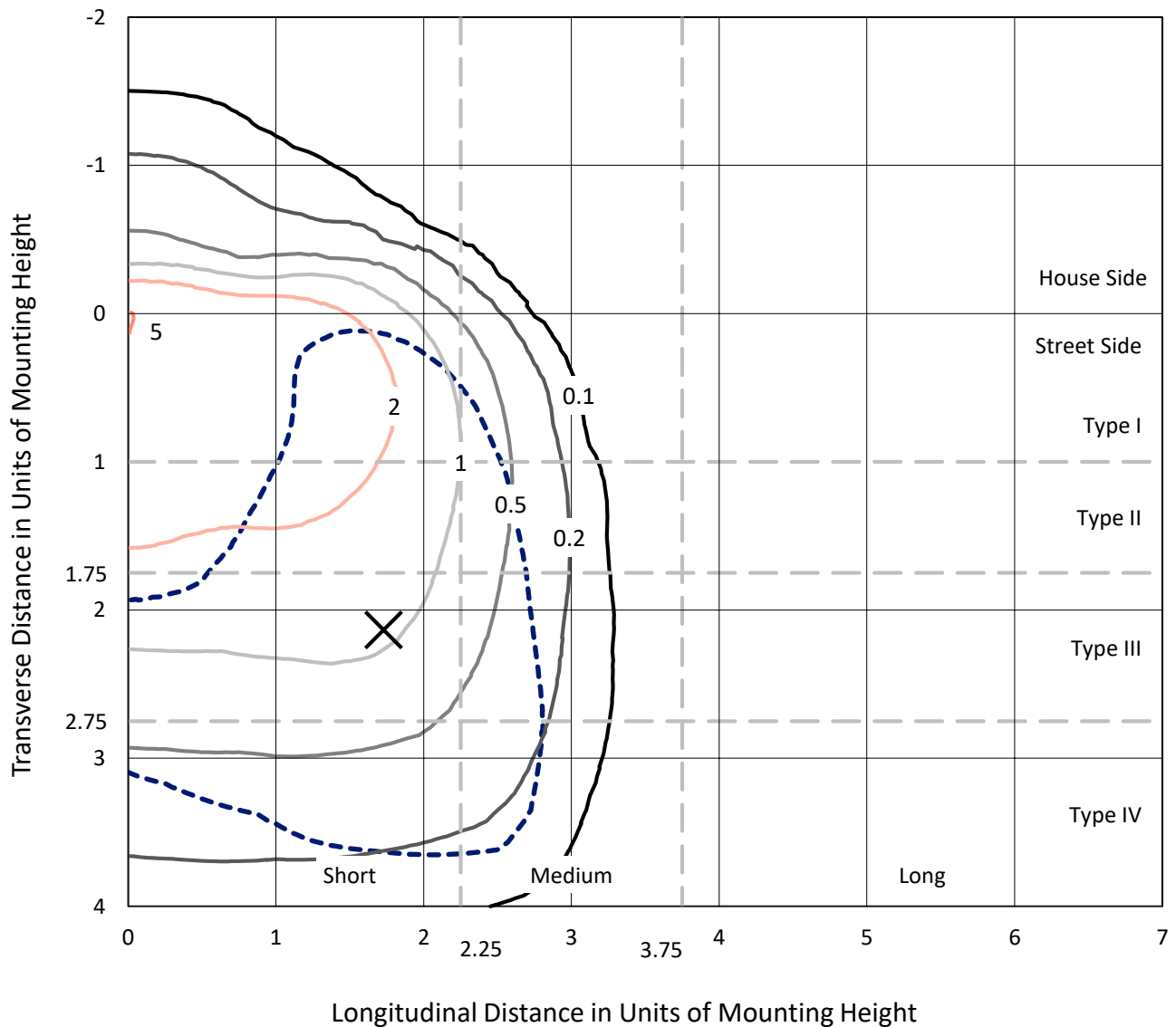


REPORT NUMBER: P192981

CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7030-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

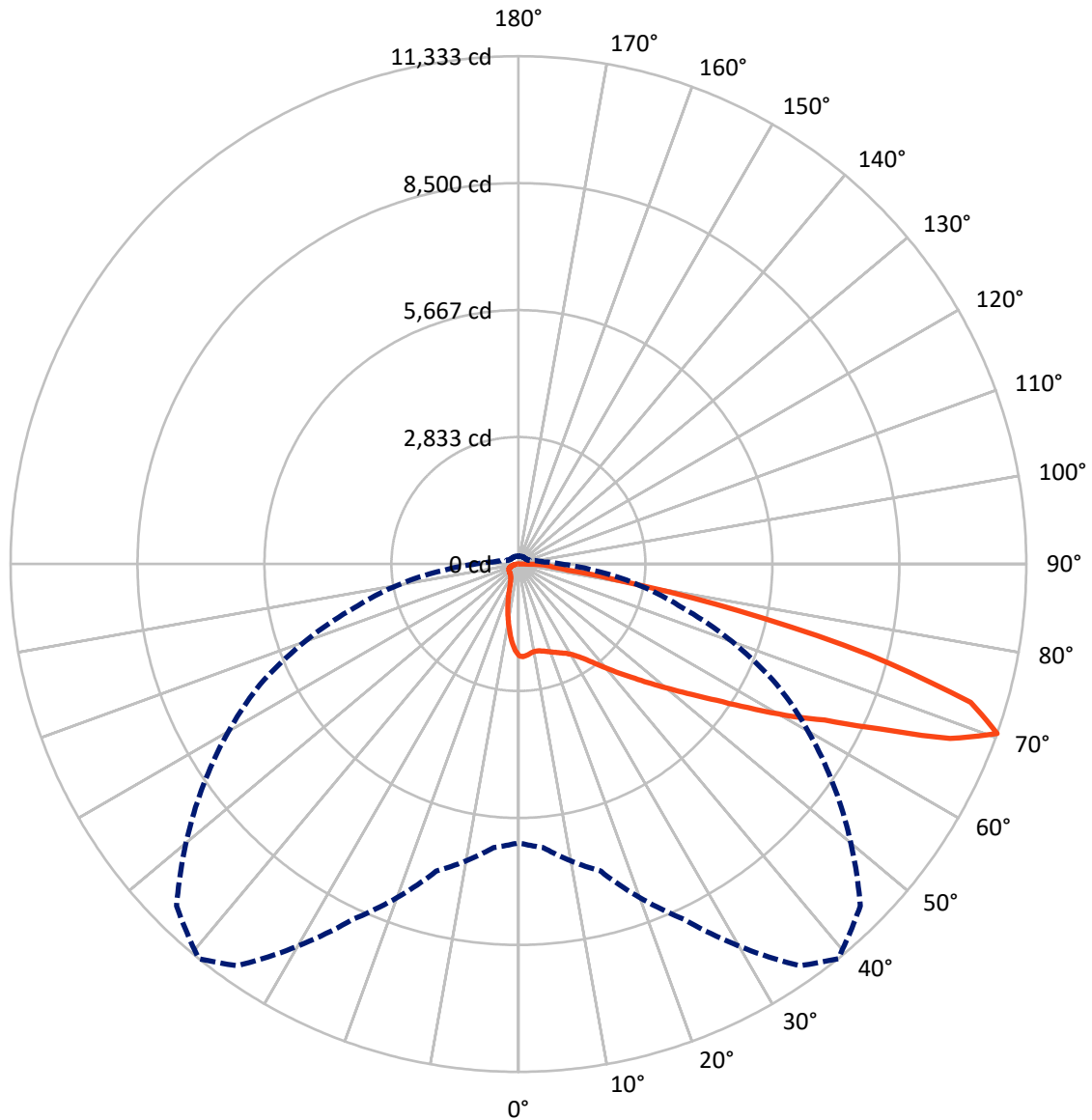


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192981

CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7030-800-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P192981

CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7030-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1534.6 | 0.0 | 1534.6 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 11957.9 | 0.0 | 11957.9 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 13492.4 | 0.0 | 13492.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 175.8 | 1.3 |
| 10°-20° | 439.4 | 3.3 |
| 20°-30° | 684.2 | 5.1 |
| 30°-40° | 1065.8 | 7.9 |
| 40°-50° | 1789.3 | 13.3 |
| 50°-60° | 2842.5 | 21.1 |
| 60°-70° | 3791.5 | 28.1 |
| 70°-80° | 2289.6 | 17.0 |
| 80°-90° | 414.4 | 3.1 |
| 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° | 13492.4 | 100.0 |
| 0°-180° | 13492.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192981

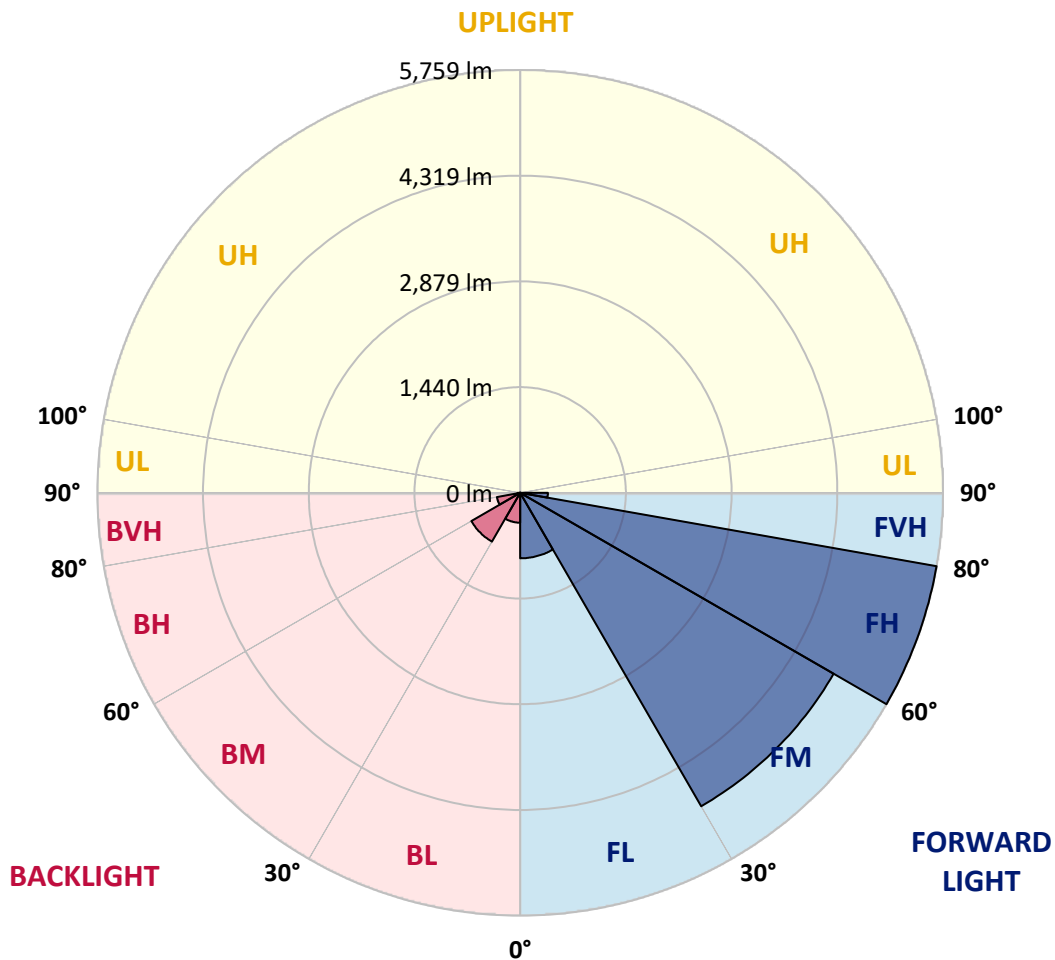
CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7030-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 892.3 | 6.6 | | | |
| FM | (30°-60°) | 4929.6 | 36.5 | | | |
| FH | (60°-80°) | 5759.0 | 42.7 | | | G3/7500 |
| FVH | (80°-90°) | 377.0 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 407.1 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 768.0 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 322.2 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 37.4 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P192981

CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7030-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 |
| 2.5° | 2088.2 | 2087.5 | 2081.9 | 2077.9 | 2074.4 | 2073.0 | 2075.8 | 2065.5 | 2056.6 | 2045.7 | 2034.0 |
| 5° | 2072.3 | 2071.7 | 2062.9 | 2054.5 | 2046.3 | 2043.5 | 2042.8 | 2024.3 | 2013.3 | 1996.9 | 1975.0 |
| 7.5° | 2055.1 | 2051.8 | 2040.1 | 2026.4 | 2012.0 | 2005.1 | 1998.3 | 1974.4 | 1962.0 | 1945.5 | 1920.1 |
| 10° | 2037.3 | 2033.4 | 2022.3 | 2008.6 | 1994.8 | 1984.5 | 1972.9 | 1949.6 | 1936.5 | 1924.2 | 1894.7 |
| 12.5° | 2018.9 | 2015.4 | 2012.7 | 2006.5 | 1996.9 | 1988.0 | 1979.1 | 1959.1 | 1945.5 | 1931.0 | 1896.7 |
| 15° | 2016.2 | 2014.7 | 2021.0 | 2025.0 | 2019.5 | 2014.0 | 2004.5 | 1987.3 | 1972.9 | 1958.5 | 1913.9 |
| 17.5° | 2038.1 | 2037.3 | 2053.2 | 2064.1 | 2061.4 | 2051.8 | 2038.8 | 2019.5 | 2007.8 | 1995.5 | 1940.0 |
| 20° | 2086.1 | 2089.5 | 2108.7 | 2123.1 | 2109.4 | 2095.7 | 2074.4 | 2047.6 | 2041.5 | 2036.0 | 1966.7 |
| 22.5° | 2176.7 | 2180.0 | 2193.8 | 2199.3 | 2163.6 | 2143.6 | 2114.1 | 2080.0 | 2075.8 | 2080.0 | 1999.0 |
| 25° | 2317.9 | 2314.5 | 2312.5 | 2291.9 | 2226.7 | 2195.9 | 2158.1 | 2122.5 | 2124.5 | 2143.0 | 2044.2 |
| 27.5° | 2505.2 | 2486.7 | 2457.9 | 2396.2 | 2292.6 | 2258.3 | 2212.3 | 2179.4 | 2192.4 | 2228.2 | 2112.2 |
| 30° | 2699.4 | 2678.8 | 2612.3 | 2511.5 | 2379.0 | 2341.3 | 2289.8 | 2252.8 | 2287.2 | 2343.3 | 2202.6 |
| 32.5° | 2879.1 | 2876.4 | 2778.9 | 2649.3 | 2498.3 | 2465.4 | 2414.0 | 2372.1 | 2427.7 | 2513.5 | 2338.5 |
| 35° | 3075.3 | 3081.4 | 2964.9 | 2809.2 | 2659.6 | 2625.3 | 2588.3 | 2556.6 | 2630.8 | 2748.8 | 2535.4 |
| 37.5° | 3285.2 | 3297.6 | 3159.7 | 2984.1 | 2843.5 | 2829.0 | 2807.1 | 2793.3 | 2907.9 | 3071.2 | 2810.4 |
| 40° | 3565.7 | 3553.4 | 3362.0 | 3181.6 | 3069.1 | 3068.4 | 3061.6 | 3078.1 | 3268.7 | 3492.4 | 3163.8 |
| 42.5° | 3866.2 | 3829.9 | 3576.7 | 3393.6 | 3316.8 | 3340.0 | 3353.8 | 3421.0 | 3703.1 | 4004.2 | 3594.6 |
| 45° | 4190.0 | 4108.3 | 3799.7 | 3617.9 | 3591.8 | 3641.2 | 3687.8 | 3834.0 | 4214.0 | 4586.4 | 4066.5 |
| 47.5° | 4448.6 | 4369.8 | 4030.1 | 3853.2 | 3910.2 | 3984.9 | 4074.8 | 4305.9 | 4786.1 | 5188.1 | 4532.3 |
| 50° | 4652.4 | 4600.9 | 4262.8 | 4127.6 | 4260.7 | 4376.0 | 4522.7 | 4840.3 | 5381.6 | 5774.0 | 4963.7 |
| 52.5° | 4849.9 | 4811.6 | 4497.3 | 4408.8 | 4672.3 | 4831.5 | 5031.1 | 5413.8 | 5992.1 | 6350.1 | 5326.7 |
| 55° | 5028.3 | 5000.8 | 4749.8 | 4759.4 | 5156.6 | 5363.7 | 5614.9 | 6066.8 | 6657.5 | 6864.0 | 5634.1 |
| 57.5° | 5229.2 | 5194.3 | 5038.0 | 5199.1 | 5778.7 | 6047.7 | 6374.1 | 6800.9 | 7281.8 | 7320.8 | 5868.0 |
| 60° | 5431.6 | 5401.4 | 5357.5 | 5706.7 | 6569.0 | 6851.6 | 7161.1 | 7512.2 | 7915.0 | 7675.5 | 5854.2 |
| 62.5° | 5607.3 | 5610.7 | 5688.2 | 6239.8 | 7342.8 | 7670.0 | 8047.3 | 8394.4 | 8487.7 | 7737.3 | 5421.3 |
| 65° | 5905.0 | 5959.2 | 6190.3 | 6994.3 | 8432.2 | 8869.7 | 9332.8 | 9277.3 | 8646.2 | 7160.3 | 4493.2 |
| 67.5° | 6258.9 | 6354.3 | 6822.8 | 8000.0 | 9809.0 | 10390.0 | 10568.9 | 9476.9 | 8011.7 | 5820.6 | 3202.8 |
| 70° | 6223.3 | 6354.3 | 7095.9 | 8749.8 | 10943.5 | 11333.3 | 10789.9 | 8576.9 | 6361.8 | 3802.4 | 1701.2 |
| 72.5° | 5526.4 | 5713.6 | 6539.5 | 8406.1 | 10586.1 | 10551.8 | 9367.2 | 6394.1 | 3779.9 | 1527.0 | 664.8 |
| 75° | 4212.0 | 4401.3 | 5112.0 | 6641.0 | 8367.0 | 8078.8 | 6646.6 | 3532.2 | 1434.3 | 606.4 | 419.1 |
| 77.5° | 2423.0 | 2569.7 | 3118.5 | 4072.7 | 5308.2 | 5012.5 | 3699.5 | 1570.9 | 698.3 | 422.7 | 327.2 |
| 80° | 1352.7 | 1434.3 | 1767.9 | 2066.2 | 2601.3 | 2384.5 | 1655.3 | 976.1 | 521.3 | 306.7 | 252.4 |
| 82.5° | 1069.4 | 1142.2 | 1429.5 | 1303.4 | 1188.0 | 1096.2 | 950.8 | 869.1 | 416.4 | 193.5 | 150.9 |
| 85° | 934.2 | 1003.5 | 1210.0 | 1026.3 | 811.6 | 744.3 | 772.5 | 855.4 | 323.7 | 116.6 | 128.9 |
| 87.5° | 865.8 | 958.3 | 1078.4 | 790.9 | 631.8 | 559.7 | 712.7 | 937.8 | 104.3 | 72.7 | 52.1 |
| 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: P192981

CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7030-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 | 2048.4 |
| 2.5° | 2023.7 | 2012.7 | 1994.8 | 1979.1 | 1954.4 | 1941.3 | 1926.9 | 1916.6 | 1908.4 | 1901.5 | 1912.6 |
| 5° | 1961.2 | 1940.7 | 1903.0 | 1862.5 | 1814.5 | 1776.7 | 1745.2 | 1715.7 | 1695.0 | 1681.4 | 1691.0 |
| 7.5° | 1902.2 | 1868.7 | 1809.7 | 1736.2 | 1653.9 | 1583.9 | 1526.4 | 1475.5 | 1440.6 | 1417.9 | 1426.8 |
| 10° | 1868.7 | 1826.9 | 1735.6 | 1620.4 | 1498.9 | 1389.8 | 1299.3 | 1221.1 | 1166.9 | 1136.0 | 1140.7 |
| 12.5° | 1860.3 | 1806.2 | 1680.0 | 1521.6 | 1355.5 | 1203.9 | 1076.3 | 967.9 | 891.8 | 852.0 | 853.4 |
| 15° | 1866.5 | 1797.4 | 1627.9 | 1426.8 | 1216.9 | 1025.5 | 866.4 | 734.7 | 646.2 | 600.9 | 600.3 |
| 17.5° | 1876.8 | 1790.4 | 1573.0 | 1324.7 | 1076.3 | 854.1 | 676.5 | 547.4 | 469.3 | 432.8 | 430.2 |
| 20° | 1887.9 | 1779.5 | 1511.3 | 1214.2 | 930.3 | 694.9 | 529.6 | 428.8 | 379.3 | 359.5 | 358.1 |
| 22.5° | 1903.7 | 1769.9 | 1447.4 | 1097.6 | 786.7 | 566.0 | 435.6 | 367.6 | 341.7 | 331.4 | 330.0 |
| 25° | 1929.0 | 1765.1 | 1379.5 | 976.1 | 657.8 | 473.3 | 379.3 | 337.5 | 322.5 | 315.5 | 314.8 |
| 27.5° | 1971.6 | 1771.8 | 1315.7 | 858.1 | 552.9 | 411.0 | 347.8 | 322.5 | 311.4 | 305.3 | 304.7 |
| 30° | 2026.4 | 1793.2 | 1248.5 | 746.4 | 471.2 | 368.4 | 328.6 | 312.2 | 303.2 | 297.0 | 297.0 |
| 32.5° | 2117.7 | 1828.9 | 1177.9 | 649.6 | 413.0 | 338.9 | 314.2 | 303.2 | 295.6 | 290.8 | 290.2 |
| 35° | 2252.1 | 1896.0 | 1112.0 | 569.4 | 371.2 | 317.6 | 301.9 | 293.6 | 288.1 | 285.3 | 285.3 |
| 37.5° | 2447.6 | 2002.4 | 1053.7 | 511.8 | 345.7 | 303.2 | 290.2 | 284.0 | 280.6 | 280.6 | 280.6 |
| 40° | 2710.2 | 2149.2 | 1006.4 | 473.3 | 331.4 | 293.0 | 281.3 | 276.4 | 274.3 | 275.2 | 275.2 |
| 42.5° | 3034.7 | 2339.9 | 974.8 | 446.6 | 324.5 | 286.7 | 275.2 | 271.0 | 268.9 | 268.2 | 268.9 |
| 45° | 3404.5 | 2556.6 | 971.4 | 426.6 | 317.6 | 282.7 | 271.0 | 266.8 | 262.8 | 260.0 | 260.0 |
| 47.5° | 3764.0 | 2776.9 | 999.5 | 419.8 | 310.1 | 277.8 | 267.5 | 263.5 | 257.2 | 251.1 | 251.1 |
| 50° | 4081.6 | 2964.2 | 1037.2 | 422.7 | 307.3 | 271.0 | 262.0 | 260.0 | 250.4 | 243.5 | 242.9 |
| 52.5° | 4334.1 | 3108.2 | 1068.1 | 430.8 | 310.1 | 266.1 | 255.2 | 255.8 | 245.7 | 238.0 | 237.3 |
| 55° | 4536.5 | 3202.8 | 1059.9 | 439.0 | 316.2 | 263.5 | 249.0 | 250.4 | 242.1 | 234.6 | 234.6 |
| 57.5° | 4625.0 | 3167.9 | 968.6 | 432.1 | 321.0 | 264.1 | 244.2 | 249.6 | 242.9 | 236.0 | 236.0 |
| 60° | 4435.0 | 2857.1 | 797.8 | 402.0 | 314.8 | 262.0 | 242.1 | 252.4 | 251.8 | 244.8 | 244.2 |
| 62.5° | 3860.0 | 2300.8 | 618.7 | 357.4 | 293.6 | 251.8 | 236.6 | 251.8 | 259.3 | 257.2 | 256.5 |
| 65° | 2975.1 | 1638.8 | 472.6 | 309.4 | 264.9 | 234.6 | 222.3 | 236.0 | 246.3 | 249.0 | 248.3 |
| 67.5° | 1931.0 | 1004.3 | 364.3 | 264.1 | 232.5 | 214.7 | 203.8 | 209.9 | 212.0 | 212.0 | 210.7 |
| 70° | 949.4 | 540.5 | 290.2 | 222.3 | 199.6 | 193.5 | 187.3 | 183.9 | 180.4 | 177.6 | 177.6 |
| 72.5° | 468.5 | 353.2 | 238.7 | 187.9 | 172.2 | 169.5 | 168.0 | 164.0 | 161.1 | 157.8 | 156.5 |
| 75° | 346.5 | 287.5 | 203.0 | 158.4 | 148.1 | 145.5 | 148.1 | 144.8 | 144.0 | 141.3 | 140.0 |
| 77.5° | 284.7 | 244.8 | 175.0 | 135.8 | 127.0 | 122.2 | 126.2 | 127.0 | 127.7 | 123.5 | 122.2 |
| 80° | 231.2 | 207.1 | 146.1 | 112.5 | 104.3 | 100.8 | 103.6 | 109.0 | 110.5 | 104.3 | 101.5 |
| 82.5° | 166.7 | 169.5 | 118.0 | 87.9 | 81.0 | 78.2 | 83.7 | 90.5 | 91.9 | 83.0 | 81.0 |
| 85° | 140.0 | 141.3 | 90.5 | 62.4 | 55.6 | 51.5 | 60.4 | 67.2 | 72.0 | 63.2 | 61.0 |
| 87.5° | 58.4 | 83.0 | 52.1 | 35.0 | 30.9 | 26.8 | 32.2 | 35.6 | 43.2 | 39.8 | 39.2 |
| 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)