

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: P268346

Luminaire Tested: **GAN-AF-03-LED-U-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10190.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

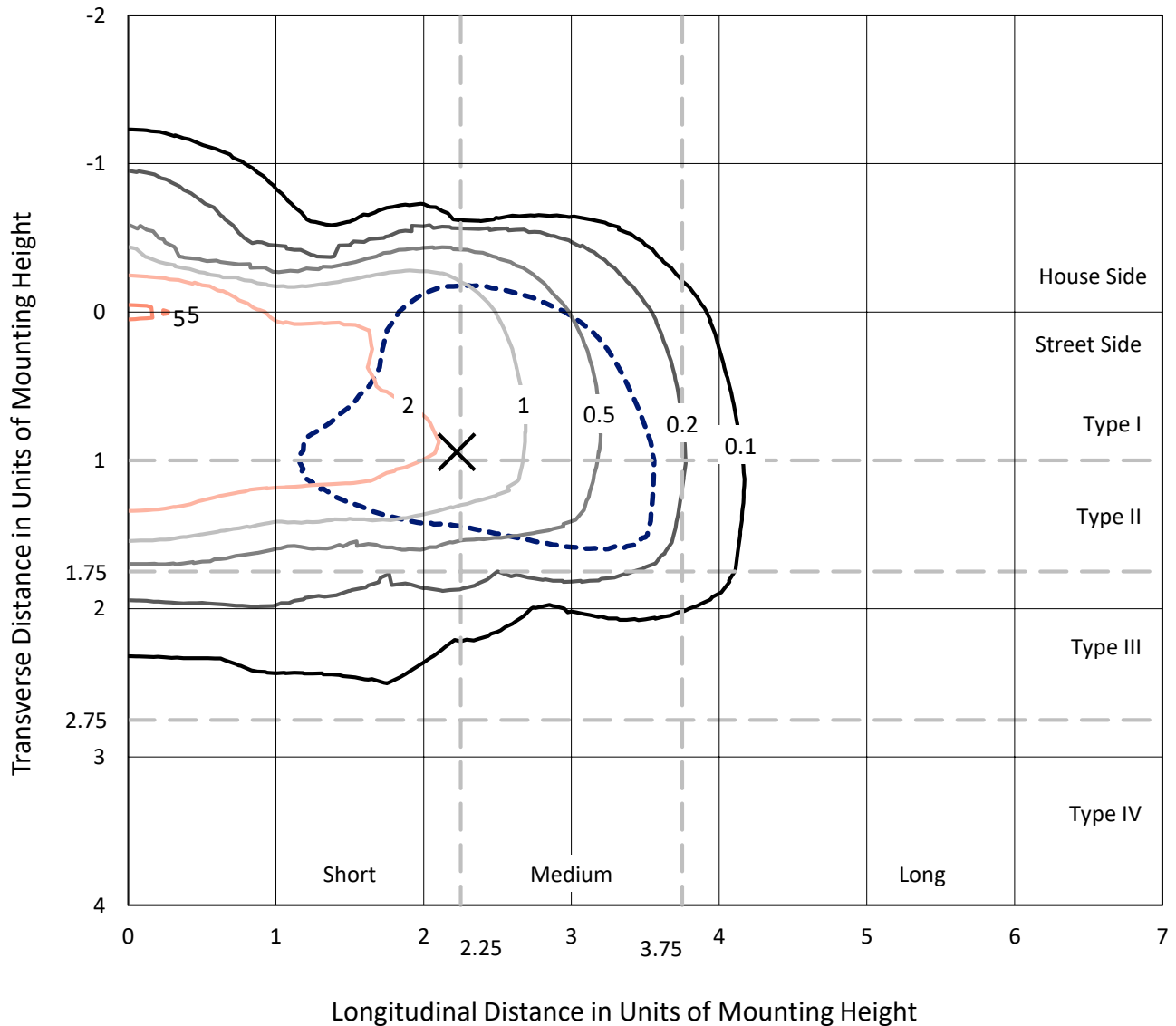
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268346
 CATALOG NUMBER: GAN-AF-03-LED-U-SL2-7027-600

Iso-Footcandle Lines of Horizontal Illumination

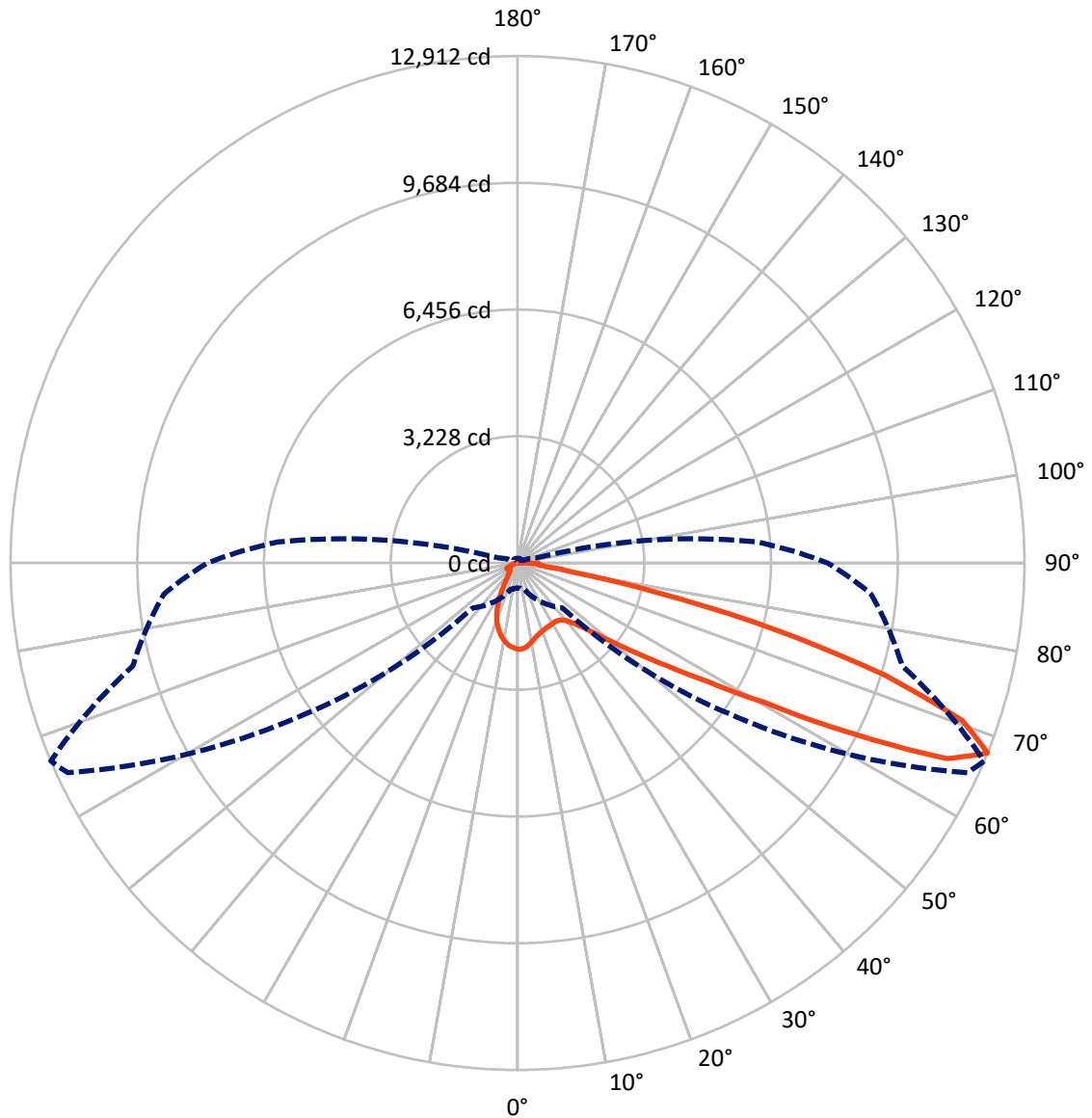
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P268346
CATALOG NUMBER: GAN-AF-03-LED-U-SL2-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P268346

CATALOG NUMBER: GAN-AF-03-LED-U-SL2-7027-600

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1688.5 | 0.0 | 1688.5 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 8502.2 | 0.0 | 8502.2 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 10190.7 | 0.0 | 10190.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.5 | 1.8 |
| 10°-20° | 433.9 | 4.3 |
| 20°-30° | 588.2 | 5.8 |
| 30°-40° | 836.2 | 8.2 |
| 40°-50° | 1398.9 | 13.7 |
| 50°-60° | 2213.1 | 21.7 |
| 60°-70° | 2819.3 | 27.7 |
| 70°-80° | 1476.7 | 14.5 |
| 80°-90° | 236.8 | 2.3 |
| 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° | 10190.7 | 100.0 |
| 0°-180° | 10190.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P268346

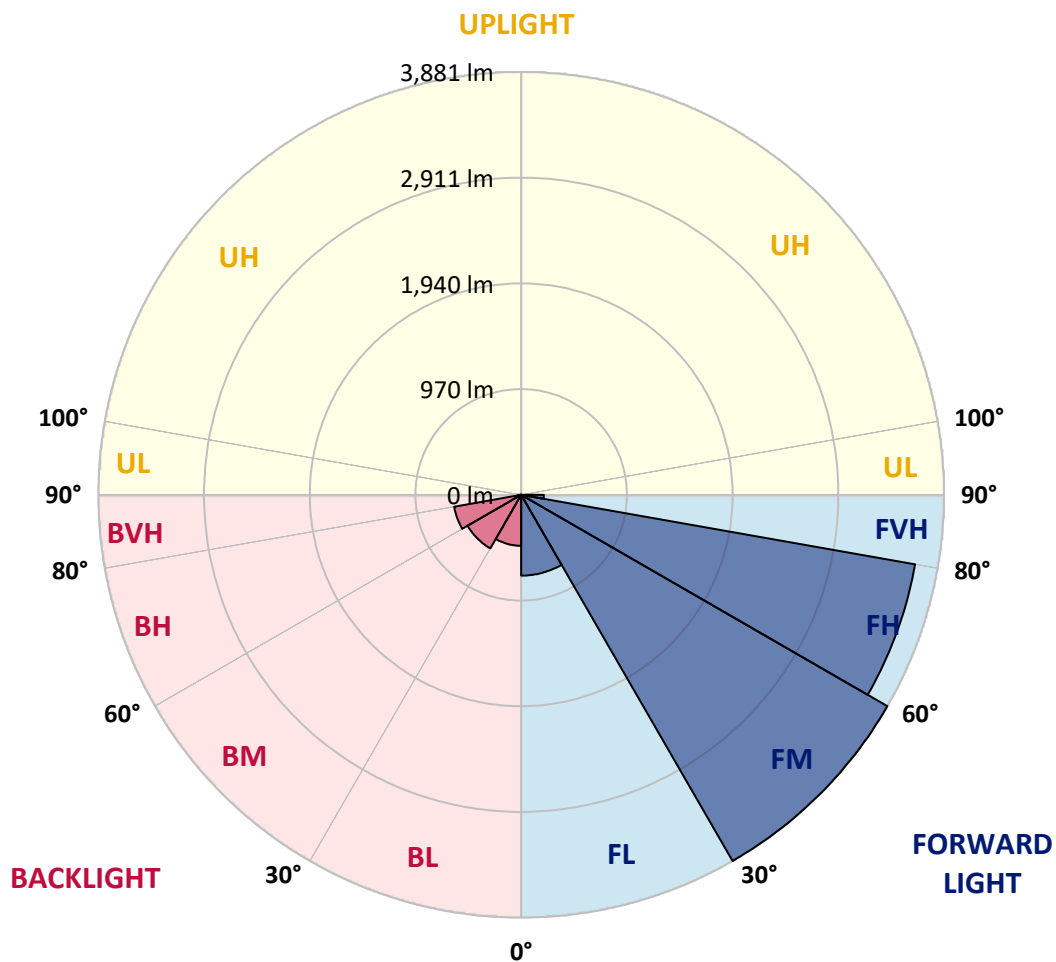
CATALOG NUMBER: GAN-AF-03-LED-U-SL2-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 741.6 | 7.3 | | | |
| FM (30°-60°) | 3880.8 | 38.1 | | | |
| FH (60°-80°) | 3671.5 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 208.3 | 2.0 | | | G2/225 |
| BL (0°-30°) | 468.0 | 4.6 | B1/500 | | |
| BM (30°-60°) | 567.4 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 624.5 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P268346

CATALOG NUMBER: GAN-AF-03-LED-U-SL2-7027-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 |
| 2.5° | 2107.7 | 2111.1 | 2122.2 | 2129.3 | 2161.0 | 2174.4 | 2184.0 | 2193.7 | 2195.1 | 2199.6 | 2195.1 |
| 5° | 1886.5 | 1894.0 | 1914.6 | 1937.9 | 1999.1 | 2047.3 | 2098.1 | 2150.9 | 2160.5 | 2194.6 | 2204.1 |
| 7.5° | 1715.1 | 1713.2 | 1730.2 | 1758.0 | 1820.8 | 1887.6 | 1976.5 | 2081.6 | 2102.2 | 2179.0 | 2216.2 |
| 10° | 1590.0 | 1588.6 | 1606.6 | 1635.3 | 1695.1 | 1758.4 | 1859.0 | 2002.6 | 2031.7 | 2154.3 | 2227.7 |
| 12.5° | 1497.6 | 1498.1 | 1516.2 | 1547.8 | 1608.7 | 1672.5 | 1774.5 | 1926.2 | 1963.4 | 2125.7 | 2239.8 |
| 15° | 1436.3 | 1440.3 | 1454.8 | 1488.5 | 1547.8 | 1611.6 | 1711.6 | 1869.0 | 1910.7 | 2103.1 | 2253.4 |
| 17.5° | 1415.6 | 1422.1 | 1427.1 | 1451.8 | 1502.5 | 1566.5 | 1664.4 | 1826.8 | 1871.0 | 2087.5 | 2265.4 |
| 20° | 1434.8 | 1442.3 | 1432.7 | 1441.3 | 1473.5 | 1529.8 | 1627.2 | 1793.6 | 1838.8 | 2070.0 | 2267.0 |
| 22.5° | 1516.7 | 1523.7 | 1495.6 | 1471.0 | 1468.9 | 1503.1 | 1596.6 | 1767.4 | 1814.1 | 2056.8 | 2267.4 |
| 25° | 1660.8 | 1665.4 | 1618.1 | 1560.8 | 1505.1 | 1493.5 | 1575.0 | 1749.4 | 1799.0 | 2045.4 | 2257.9 |
| 27.5° | 1837.8 | 1841.3 | 1787.1 | 1702.6 | 1590.5 | 1516.2 | 1567.5 | 1738.8 | 1790.5 | 2035.3 | 2241.8 |
| 30° | 2052.8 | 2069.4 | 1996.7 | 1890.0 | 1726.7 | 1583.1 | 1582.5 | 1733.3 | 1781.0 | 2018.2 | 2210.2 |
| 32.5° | 2273.0 | 2280.0 | 2229.8 | 2121.7 | 1910.2 | 1700.6 | 1624.8 | 1737.3 | 1778.5 | 1997.7 | 2169.9 |
| 35° | 2496.1 | 2505.2 | 2472.6 | 2385.5 | 2161.0 | 1873.0 | 1707.0 | 1760.9 | 1794.1 | 1990.6 | 2141.7 |
| 37.5° | 2785.0 | 2797.1 | 2751.9 | 2651.3 | 2465.9 | 2106.6 | 1844.3 | 1820.1 | 1841.9 | 2010.6 | 2133.3 |
| 40° | 3242.0 | 3236.4 | 3104.3 | 2954.4 | 2799.7 | 2405.8 | 2040.3 | 1920.8 | 1933.3 | 2075.5 | 2159.4 |
| 42.5° | 3773.6 | 3760.0 | 3532.3 | 3297.1 | 3166.5 | 2767.5 | 2299.7 | 2095.0 | 2092.6 | 2203.2 | 2251.4 |
| 45° | 4197.7 | 4186.7 | 3981.6 | 3691.7 | 3587.1 | 3179.6 | 2634.8 | 2354.8 | 2336.3 | 2405.8 | 2421.2 |
| 47.5° | 4427.3 | 4427.8 | 4309.8 | 4073.1 | 4070.6 | 3703.3 | 3065.5 | 2730.8 | 2698.7 | 2731.2 | 2714.7 |
| 50° | 4347.0 | 4357.5 | 4344.9 | 4269.6 | 4511.7 | 4389.7 | 3627.9 | 3255.0 | 3190.2 | 3222.3 | 3158.5 |
| 52.5° | 3958.0 | 3971.5 | 4046.0 | 4161.6 | 4697.2 | 5219.4 | 4454.1 | 3906.3 | 3830.8 | 3819.4 | 3748.4 |
| 55° | 3268.6 | 3285.1 | 3436.8 | 3751.0 | 4543.0 | 5776.7 | 5757.5 | 4736.5 | 4616.3 | 4507.2 | 4477.2 |
| 57.5° | 2252.9 | 2280.5 | 2524.7 | 2991.1 | 4043.9 | 5945.1 | 7310.0 | 5919.9 | 5675.8 | 5294.8 | 5301.7 |
| 60° | 1269.9 | 1302.2 | 1590.0 | 2013.7 | 3036.9 | 5762.2 | 8490.9 | 7712.5 | 7197.0 | 6216.9 | 6269.2 |
| 62.5° | 807.5 | 842.3 | 1060.9 | 1399.1 | 1822.2 | 4777.1 | 8974.8 | 10204.6 | 9549.8 | 7353.6 | 7405.0 |
| 65° | 653.7 | 668.9 | 772.0 | 1154.9 | 1323.3 | 2878.1 | 8607.5 | 12257.5 | 12013.3 | 8796.5 | 8557.3 |
| 67.5° | 638.2 | 643.2 | 696.5 | 969.5 | 1268.9 | 1617.7 | 6865.7 | 12641.4 | 12912.2 | 10143.8 | 9037.2 |
| 70° | 630.7 | 648.2 | 784.9 | 925.2 | 1215.1 | 1364.3 | 4125.8 | 11589.2 | 12016.7 | 10496.1 | 8398.4 |
| 72.5° | 306.1 | 305.1 | 395.0 | 836.7 | 1368.9 | 1415.2 | 2119.7 | 9376.9 | 9806.1 | 9093.5 | 6901.4 |
| 75° | 246.8 | 225.7 | 215.7 | 306.5 | 1316.1 | 1461.5 | 1350.8 | 6452.2 | 6762.7 | 6096.8 | 4242.4 |
| 77.5° | 234.2 | 209.0 | 191.5 | 192.0 | 556.3 | 1549.8 | 1144.4 | 3571.0 | 3661.5 | 2753.9 | 1162.3 |
| 80° | 193.9 | 170.9 | 158.3 | 178.5 | 269.3 | 1475.9 | 1237.2 | 1616.2 | 1483.0 | 676.5 | 387.0 |
| 82.5° | 134.7 | 122.6 | 119.0 | 149.7 | 215.7 | 1051.8 | 1438.7 | 868.4 | 728.2 | 338.8 | 238.7 |
| 85° | 86.0 | 73.4 | 81.3 | 109.1 | 167.9 | 485.4 | 1482.1 | 677.0 | 538.3 | 215.1 | 134.7 |
| 87.5° | 39.6 | 32.2 | 40.2 | 60.2 | 109.6 | 167.4 | 1410.1 | 760.3 | 554.3 | 113.5 | 84.9 |
| 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: P268346

CATALOG NUMBER: GAN-AF-03-LED-U-SL2-7027-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 | 2198.2 |
| 2.5° | 2199.1 | 2189.6 | 2182.1 | 2168.0 | 2152.3 | 2137.2 | 2123.8 | 2106.6 | 2101.7 | 2097.2 | 2104.1 |
| 5° | 2206.1 | 2196.6 | 2169.0 | 2125.7 | 2078.0 | 2033.3 | 1988.6 | 1950.4 | 1926.8 | 1913.7 | 1921.3 |
| 7.5° | 2216.7 | 2203.2 | 2145.8 | 2066.5 | 1980.6 | 1902.2 | 1821.3 | 1756.4 | 1708.7 | 1685.9 | 1692.5 |
| 10° | 2226.3 | 2200.0 | 2106.6 | 1987.6 | 1861.8 | 1745.3 | 1617.7 | 1512.1 | 1433.8 | 1392.6 | 1402.7 |
| 12.5° | 2230.3 | 2188.6 | 2051.9 | 1889.0 | 1716.8 | 1545.9 | 1357.9 | 1200.0 | 1087.5 | 1046.3 | 1037.7 |
| 15° | 2234.4 | 2175.4 | 1991.5 | 1776.9 | 1541.3 | 1299.6 | 1036.3 | 847.3 | 753.8 | 733.1 | 728.6 |
| 17.5° | 2235.3 | 2152.9 | 1923.2 | 1655.3 | 1335.8 | 1006.6 | 708.7 | 588.5 | 589.0 | 622.2 | 626.2 |
| 20° | 2224.7 | 2119.2 | 1840.3 | 1504.1 | 1089.6 | 696.0 | 486.4 | 465.9 | 541.8 | 624.6 | 634.7 |
| 22.5° | 2200.6 | 2074.5 | 1746.3 | 1327.8 | 807.5 | 458.3 | 376.4 | 398.9 | 497.0 | 598.5 | 610.0 |
| 25° | 2169.9 | 2020.2 | 1635.3 | 1123.2 | 534.8 | 327.6 | 315.7 | 343.2 | 409.5 | 477.4 | 483.9 |
| 27.5° | 2128.3 | 1955.9 | 1510.6 | 889.1 | 347.3 | 269.9 | 277.8 | 296.5 | 323.6 | 353.8 | 356.7 |
| 30° | 2074.5 | 1879.1 | 1377.6 | 648.2 | 262.3 | 242.7 | 254.3 | 264.3 | 275.9 | 292.9 | 294.5 |
| 32.5° | 2012.7 | 1805.1 | 1240.7 | 447.7 | 232.8 | 228.7 | 237.7 | 242.7 | 251.7 | 262.3 | 263.4 |
| 35° | 1960.9 | 1734.7 | 1099.0 | 316.7 | 220.2 | 218.1 | 224.1 | 226.2 | 234.6 | 246.2 | 247.3 |
| 37.5° | 1931.3 | 1677.5 | 952.8 | 255.3 | 211.6 | 208.5 | 212.1 | 212.1 | 224.1 | 241.3 | 243.7 |
| 40° | 1933.3 | 1645.9 | 806.6 | 230.7 | 204.5 | 200.5 | 201.0 | 201.0 | 216.6 | 235.1 | 236.8 |
| 42.5° | 1988.0 | 1653.9 | 677.0 | 221.2 | 199.1 | 194.6 | 192.0 | 193.4 | 206.5 | 218.6 | 219.6 |
| 45° | 2116.6 | 1710.6 | 555.3 | 215.1 | 193.4 | 192.0 | 186.5 | 185.9 | 191.0 | 196.5 | 196.5 |
| 47.5° | 2327.8 | 1822.8 | 472.9 | 211.0 | 189.0 | 188.5 | 181.9 | 175.3 | 174.9 | 176.8 | 176.8 |
| 50° | 2671.0 | 2015.6 | 417.6 | 206.5 | 185.9 | 181.9 | 174.5 | 164.3 | 160.7 | 162.4 | 162.4 |
| 52.5° | 3185.6 | 2359.9 | 396.5 | 200.5 | 179.4 | 172.8 | 164.3 | 154.2 | 151.3 | 151.8 | 151.8 |
| 55° | 3860.6 | 2888.6 | 393.5 | 193.4 | 172.4 | 161.9 | 154.8 | 147.2 | 143.6 | 144.7 | 144.7 |
| 57.5° | 4685.2 | 3619.8 | 447.3 | 182.4 | 162.9 | 150.7 | 146.8 | 141.8 | 139.1 | 140.8 | 140.2 |
| 60° | 5687.8 | 4576.7 | 663.4 | 170.9 | 153.3 | 140.8 | 140.8 | 136.7 | 134.7 | 136.3 | 135.6 |
| 62.5° | 6842.6 | 5675.8 | 932.7 | 162.4 | 143.2 | 132.7 | 134.7 | 132.7 | 130.7 | 131.6 | 131.2 |
| 65° | 7866.7 | 6391.8 | 873.4 | 155.8 | 133.2 | 125.1 | 128.6 | 127.6 | 126.1 | 127.1 | 126.7 |
| 67.5° | 7896.5 | 6126.5 | 490.5 | 148.8 | 123.6 | 117.6 | 122.6 | 122.1 | 121.1 | 122.1 | 121.6 |
| 70° | 7047.2 | 5173.2 | 276.4 | 135.6 | 113.5 | 108.5 | 115.6 | 115.2 | 114.1 | 116.2 | 115.6 |
| 72.5° | 5646.0 | 3753.9 | 201.9 | 119.7 | 103.6 | 99.1 | 107.1 | 106.4 | 106.4 | 109.6 | 108.1 |
| 75° | 3248.9 | 1931.7 | 161.3 | 102.5 | 93.0 | 89.4 | 96.5 | 96.9 | 97.9 | 102.0 | 99.1 |
| 77.5° | 926.2 | 602.0 | 131.6 | 87.0 | 79.9 | 78.4 | 85.3 | 86.4 | 87.0 | 91.4 | 87.5 |
| 80° | 344.2 | 277.3 | 108.5 | 72.9 | 65.3 | 65.8 | 72.4 | 73.9 | 74.4 | 79.0 | 73.9 |
| 82.5° | 219.6 | 183.0 | 87.9 | 56.2 | 51.3 | 50.8 | 58.7 | 60.8 | 60.8 | 61.4 | 58.3 |
| 85° | 128.2 | 109.6 | 66.4 | 40.8 | 36.2 | 34.7 | 43.7 | 47.3 | 45.8 | 44.7 | 42.7 |
| 87.5° | 86.0 | 75.4 | 40.8 | 22.5 | 19.7 | 18.5 | 25.6 | 28.1 | 27.0 | 25.6 | 24.2 |
| 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)