

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: P402642

Luminaire Tested: **GAN-AF-10-LED-U-SL2-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL2-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) NARROW BAND AMBER, 500mA 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: 10106 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

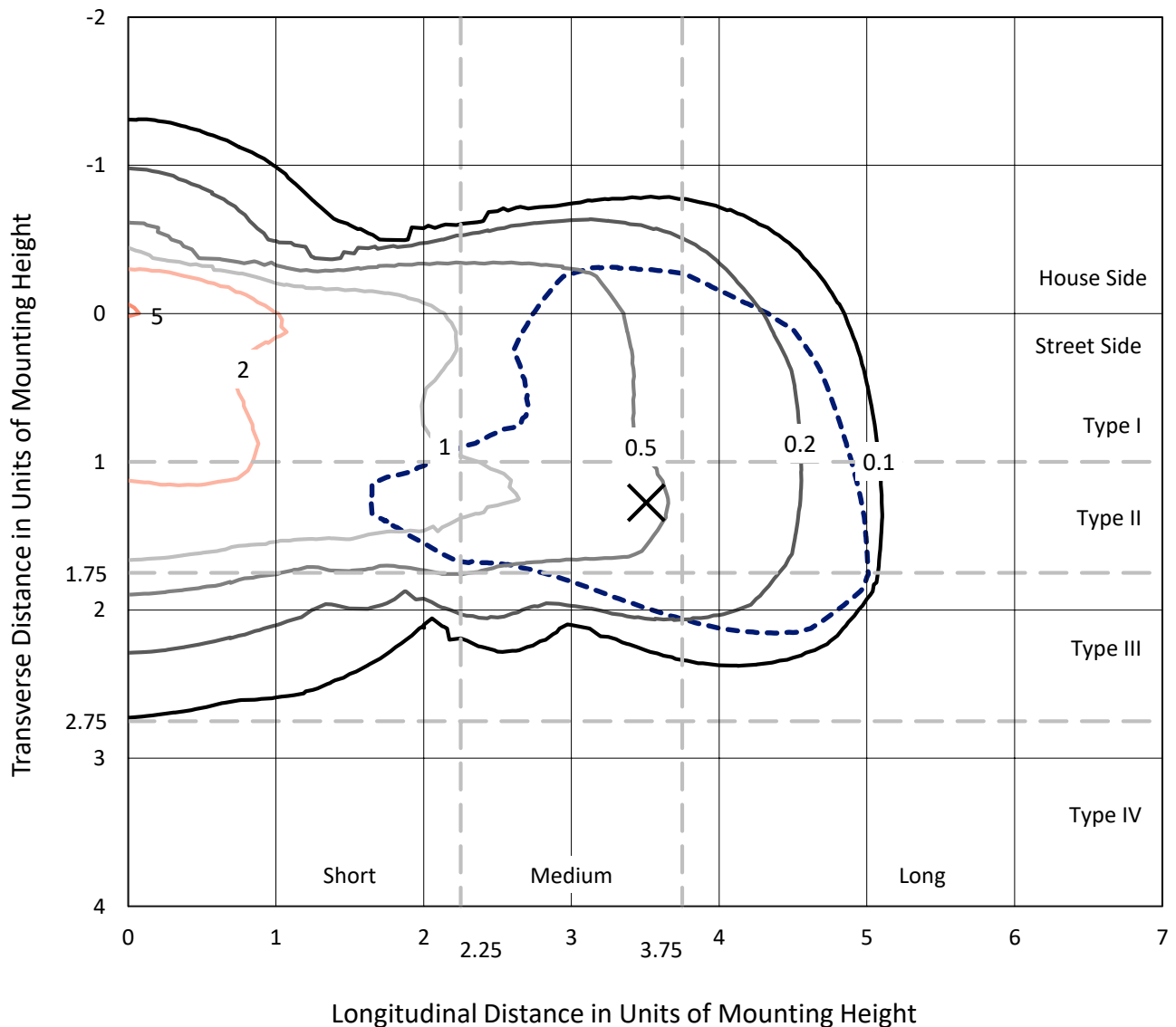
Input Watts (W): 198.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P402642
 CATALOG NUMBER: GAN-AF-10-LED-U-SL2-AMB

Iso-Footcandle Lines of Horizontal Illumination

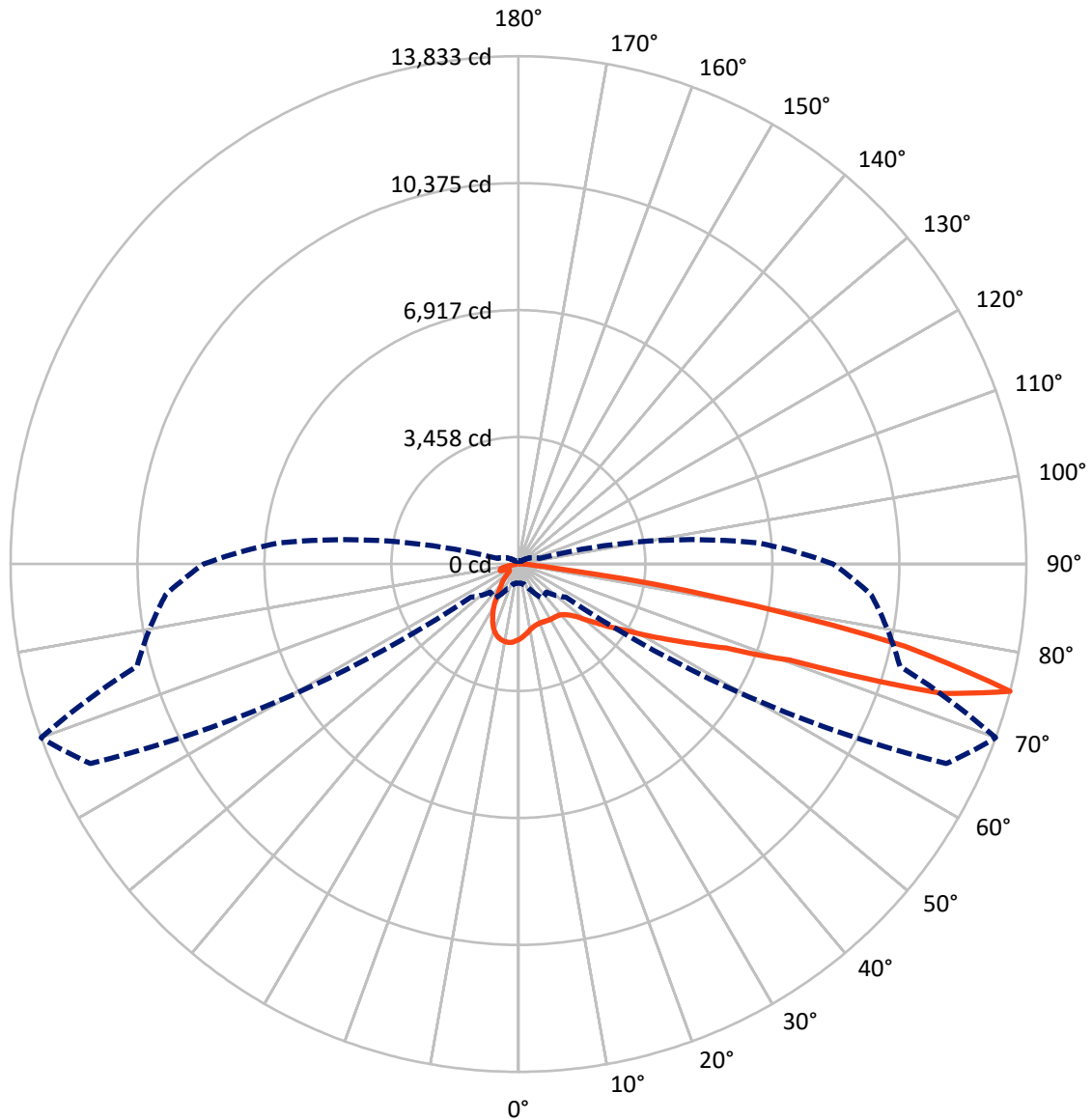
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P402642
CATALOG NUMBER: GAN-AF-10-LED-U-SL2-AMB

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



REPORT NUMBER: P402642

CATALOG NUMBER: GAN-AF-10-LED-U-SL2-AMB

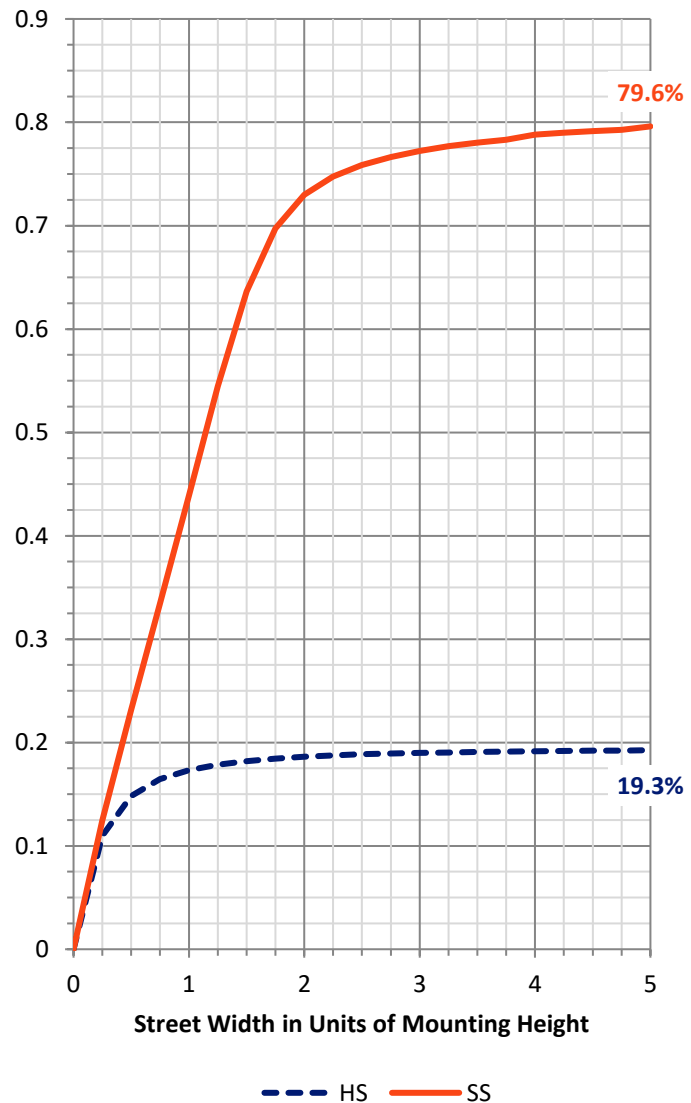
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1971.9 | 0.0 | 1971.9 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 8134.1 | 0.0 | 8134.1 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 10106.0 | 0.0 | 10106.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 186.1 | 1.8 |
| 10°-20° | 452.2 | 4.5 |
| 20°-30° | 608.2 | 6.0 |
| 30°-40° | 800.0 | 7.9 |
| 40°-50° | 1141.2 | 11.3 |
| 50°-60° | 1777.8 | 17.6 |
| 60°-70° | 2320.9 | 23.0 |
| 70°-80° | 2466.4 | 24.4 |
| 80°-90° | 353.2 | 3.5 |
| 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° | 10106.0 | 100.0 |
| 0°-180° | 10106.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P402642

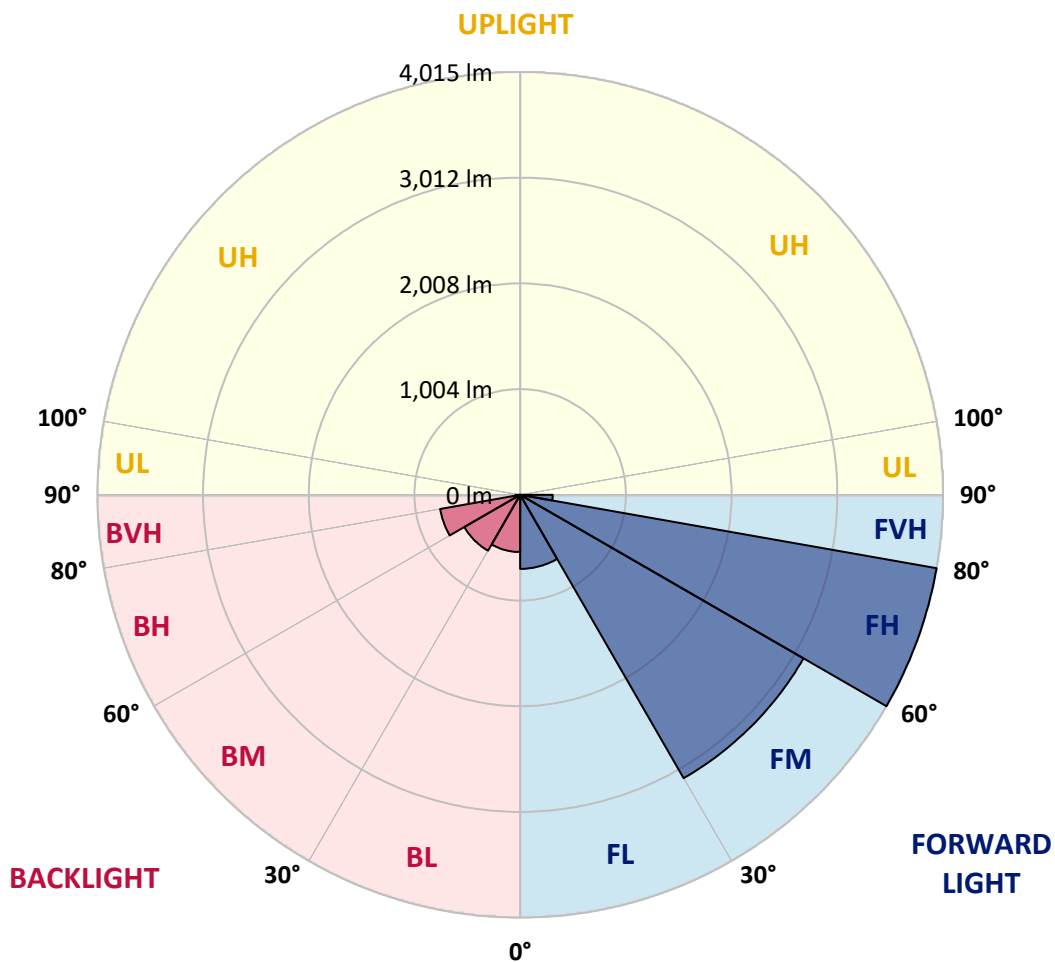
CATALOG NUMBER: GAN-AF-10-LED-U-SL2-AMB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 703.1 | 7.0 | | | |
| FM (30°-60°) | 3106.9 | 30.7 | | | |
| FH (60°-80°) | 4015.4 | 39.7 | | | G2/5000 |
| FVH (80°-90°) | 308.8 | 3.1 | | | G3/500 |
| BL (0°-30°) | 543.4 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 612.1 | 6.1 | B1/1000 | | |
| BH (60°-80°) | 771.9 | 7.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P402642

CATALOG NUMBER: GAN-AF-10-LED-U-SL2-AMB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 |
| 2.5° | 1926.1 | 1926.1 | 1939.0 | 1939.0 | 1956.4 | 1960.7 | 1978.0 | 1986.7 | 1995.3 | 2008.3 | 2034.3 |
| 5° | 1787.6 | 1783.2 | 1796.2 | 1817.9 | 1839.5 | 1861.1 | 1891.4 | 1921.7 | 1934.7 | 1956.4 | 1999.6 |
| 7.5° | 1683.7 | 1683.7 | 1692.3 | 1705.3 | 1735.6 | 1761.6 | 1809.2 | 1843.8 | 1874.1 | 1904.4 | 1965.0 |
| 10° | 1605.8 | 1605.8 | 1614.4 | 1627.4 | 1657.7 | 1679.4 | 1722.6 | 1783.2 | 1809.2 | 1852.5 | 1930.4 |
| 12.5° | 1532.2 | 1540.8 | 1545.2 | 1562.5 | 1584.1 | 1614.4 | 1657.7 | 1722.6 | 1765.9 | 1817.9 | 1921.7 |
| 15° | 1497.6 | 1497.6 | 1501.9 | 1514.9 | 1536.5 | 1566.8 | 1618.8 | 1688.0 | 1735.6 | 1796.2 | 1926.1 |
| 17.5° | 1488.9 | 1484.6 | 1480.3 | 1484.6 | 1506.2 | 1536.5 | 1588.5 | 1666.4 | 1718.3 | 1787.6 | 1947.7 |
| 20° | 1493.2 | 1488.9 | 1484.6 | 1475.9 | 1484.6 | 1514.9 | 1579.8 | 1657.7 | 1709.7 | 1783.2 | 1982.3 |
| 22.5° | 1514.9 | 1514.9 | 1506.2 | 1488.9 | 1484.6 | 1506.2 | 1575.5 | 1657.7 | 1714.0 | 1787.6 | 2017.0 |
| 25° | 1575.5 | 1571.1 | 1562.5 | 1527.9 | 1501.9 | 1510.6 | 1575.5 | 1666.4 | 1722.6 | 1796.2 | 2047.3 |
| 27.5° | 1640.4 | 1640.4 | 1631.7 | 1601.4 | 1549.5 | 1527.9 | 1584.1 | 1679.4 | 1735.6 | 1804.9 | 2081.9 |
| 30° | 1744.3 | 1739.9 | 1731.3 | 1696.7 | 1631.7 | 1562.5 | 1601.4 | 1692.3 | 1744.3 | 1809.2 | 2112.2 |
| 32.5° | 1869.8 | 1869.8 | 1874.1 | 1830.8 | 1735.6 | 1623.1 | 1618.8 | 1701.0 | 1748.6 | 1813.5 | 2146.8 |
| 35° | 2017.0 | 2021.3 | 2034.3 | 1999.6 | 1882.8 | 1714.0 | 1662.0 | 1722.6 | 1757.3 | 1817.9 | 2181.4 |
| 37.5° | 2125.2 | 2129.5 | 2177.1 | 2185.8 | 2047.3 | 1835.2 | 1731.3 | 1765.9 | 1774.6 | 1826.5 | 2216.1 |
| 40° | 2250.7 | 2250.7 | 2319.9 | 2371.9 | 2281.0 | 2004.0 | 1826.5 | 1817.9 | 1813.5 | 1861.1 | 2259.3 |
| 42.5° | 2389.2 | 2406.5 | 2467.1 | 2553.7 | 2514.7 | 2198.7 | 1960.7 | 1908.7 | 1887.1 | 1921.7 | 2328.6 |
| 45° | 2519.0 | 2527.7 | 2640.2 | 2739.8 | 2744.1 | 2462.8 | 2151.1 | 2051.6 | 1991.0 | 2029.9 | 2454.1 |
| 47.5° | 2661.9 | 2674.8 | 2813.3 | 2973.5 | 3003.8 | 2744.1 | 2367.5 | 2229.0 | 2151.1 | 2190.1 | 2635.9 |
| 50° | 2869.6 | 2891.3 | 3008.1 | 3202.9 | 3285.1 | 3077.4 | 2644.5 | 2475.7 | 2389.2 | 2406.5 | 2891.3 |
| 52.5° | 3202.9 | 3198.6 | 3254.8 | 3445.3 | 3644.4 | 3445.3 | 3016.8 | 2778.7 | 2661.9 | 2687.8 | 3220.2 |
| 55° | 3402.0 | 3397.7 | 3475.6 | 3683.3 | 4046.9 | 3908.4 | 3428.0 | 3138.0 | 3029.8 | 3016.8 | 3601.1 |
| 57.5° | 3224.5 | 3233.2 | 3367.4 | 3692.0 | 4319.6 | 4631.2 | 3878.1 | 3575.1 | 3389.0 | 3410.6 | 4064.2 |
| 60° | 2696.5 | 2644.5 | 2796.0 | 3237.5 | 4237.3 | 5440.6 | 4518.7 | 4103.2 | 3908.4 | 3869.4 | 4648.5 |
| 62.5° | 1817.9 | 1835.2 | 1934.7 | 2220.4 | 3627.1 | 5661.3 | 6154.7 | 4761.1 | 4492.7 | 4423.4 | 5198.2 |
| 65° | 1367.7 | 1363.4 | 1367.7 | 1415.3 | 1965.0 | 5453.6 | 7847.1 | 5635.4 | 5215.5 | 4986.1 | 5778.2 |
| 67.5° | 1142.7 | 1129.7 | 1125.3 | 1233.5 | 1224.9 | 3432.3 | 8409.7 | 7622.0 | 6102.8 | 5618.0 | 6340.9 |
| 70° | 969.5 | 943.6 | 934.9 | 1108.0 | 1138.3 | 1216.2 | 8344.8 | 11318.3 | 7838.4 | 6501.0 | 7085.3 |
| 72.5° | 735.8 | 731.5 | 748.8 | 943.6 | 1121.0 | 1064.7 | 5025.1 | 12937.1 | 12054.1 | 8206.3 | 8621.8 |
| 75° | 523.7 | 519.4 | 567.0 | 766.1 | 1138.3 | 1082.1 | 1571.1 | 12859.2 | 13833.0 | 10755.6 | 9647.6 |
| 77.5° | 346.3 | 341.9 | 385.2 | 549.7 | 1069.1 | 1086.4 | 1025.8 | 9310.0 | 10755.6 | 10076.1 | 7907.7 |
| 80° | 229.4 | 220.7 | 251.0 | 380.9 | 857.0 | 1164.3 | 1004.1 | 4609.6 | 5483.9 | 4665.8 | 2627.2 |
| 82.5° | 134.2 | 129.8 | 160.1 | 264.0 | 562.7 | 1151.3 | 1012.8 | 1450.0 | 1185.9 | 606.0 | 328.9 |
| 85° | 69.3 | 73.6 | 103.9 | 160.1 | 363.6 | 1017.1 | 1082.1 | 744.5 | 346.3 | 246.7 | 164.5 |
| 87.5° | 21.6 | 30.3 | 56.3 | 86.6 | 203.4 | 701.2 | 960.9 | 575.7 | 251.0 | 160.1 | 90.9 |
| 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: P402642

CATALOG NUMBER: GAN-AF-10-LED-U-SL2-AMB

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 | 2055.9 |
| 2.5° | 2042.9 | 2055.9 | 2081.9 | 2112.2 | 2142.5 | 2155.5 | 2172.8 | 2177.1 | 2185.8 | 2190.1 | 2185.8 |
| 5° | 2029.9 | 2060.2 | 2116.5 | 2155.5 | 2181.4 | 2177.1 | 2172.8 | 2159.8 | 2155.5 | 2151.1 | 2142.5 |
| 7.5° | 2004.0 | 2055.9 | 2138.1 | 2172.8 | 2155.5 | 2103.5 | 2060.2 | 2008.3 | 1991.0 | 1969.3 | 1965.0 |
| 10° | 1991.0 | 2064.6 | 2146.8 | 2142.5 | 2073.2 | 1973.7 | 1887.1 | 1804.9 | 1748.6 | 1714.0 | 1696.7 |
| 12.5° | 2004.0 | 2094.9 | 2164.1 | 2086.2 | 1965.0 | 1813.5 | 1662.0 | 1536.5 | 1411.0 | 1367.7 | 1346.1 |
| 15° | 2042.9 | 2142.5 | 2164.1 | 2012.6 | 1826.5 | 1610.1 | 1380.7 | 1181.6 | 1034.4 | 960.9 | 947.9 |
| 17.5° | 2090.5 | 2181.4 | 2133.8 | 1921.7 | 1666.4 | 1354.7 | 1082.1 | 826.7 | 714.2 | 683.9 | 679.5 |
| 20° | 2146.8 | 2229.0 | 2086.2 | 1809.2 | 1458.6 | 1090.7 | 735.8 | 606.0 | 593.0 | 597.3 | 601.6 |
| 22.5° | 2194.4 | 2250.7 | 2008.3 | 1657.7 | 1211.9 | 731.5 | 515.1 | 489.1 | 515.1 | 549.7 | 558.3 |
| 25° | 2229.0 | 2237.7 | 1921.7 | 1467.3 | 930.6 | 467.4 | 406.9 | 402.5 | 441.5 | 502.1 | 519.4 |
| 27.5° | 2250.7 | 2194.4 | 1804.9 | 1263.8 | 571.3 | 363.6 | 333.3 | 346.3 | 376.6 | 419.8 | 428.5 |
| 30° | 2263.7 | 2151.1 | 1692.3 | 1051.8 | 363.6 | 307.3 | 303.0 | 311.6 | 324.6 | 346.3 | 350.6 |
| 32.5° | 2268.0 | 2107.8 | 1571.1 | 783.4 | 307.3 | 281.3 | 281.3 | 290.0 | 294.3 | 307.3 | 307.3 |
| 35° | 2259.3 | 2055.9 | 1450.0 | 493.4 | 281.3 | 272.7 | 268.4 | 268.4 | 268.4 | 272.7 | 272.7 |
| 37.5° | 2237.7 | 2004.0 | 1307.1 | 328.9 | 268.4 | 259.7 | 255.4 | 255.4 | 251.0 | 251.0 | 251.0 |
| 40° | 2224.7 | 1960.7 | 1172.9 | 285.7 | 255.4 | 251.0 | 246.7 | 238.1 | 233.7 | 233.7 | 233.7 |
| 42.5° | 2237.7 | 1939.0 | 1008.5 | 272.7 | 246.7 | 242.4 | 233.7 | 225.1 | 225.1 | 225.1 | 225.1 |
| 45° | 2294.0 | 1943.4 | 800.7 | 264.0 | 242.4 | 233.7 | 220.7 | 212.1 | 212.1 | 216.4 | 216.4 |
| 47.5° | 2402.2 | 1982.3 | 618.9 | 255.4 | 233.7 | 225.1 | 207.8 | 203.4 | 203.4 | 203.4 | 203.4 |
| 50° | 2566.6 | 2060.2 | 489.1 | 246.7 | 229.4 | 216.4 | 203.4 | 194.8 | 194.8 | 194.8 | 190.4 |
| 52.5° | 2800.4 | 2203.1 | 385.2 | 242.4 | 225.1 | 212.1 | 194.8 | 186.1 | 181.8 | 181.8 | 177.5 |
| 55° | 3125.0 | 2428.1 | 354.9 | 242.4 | 216.4 | 203.4 | 186.1 | 173.1 | 168.8 | 164.5 | 164.5 |
| 57.5° | 3557.8 | 2748.4 | 350.6 | 238.1 | 203.4 | 190.4 | 173.1 | 160.1 | 155.8 | 155.8 | 151.5 |
| 60° | 4085.8 | 3176.9 | 354.9 | 229.4 | 194.8 | 177.5 | 160.1 | 151.5 | 142.8 | 142.8 | 142.8 |
| 62.5° | 4678.8 | 3644.4 | 354.9 | 225.1 | 190.4 | 168.8 | 151.5 | 138.5 | 134.2 | 129.8 | 129.8 |
| 65° | 5280.4 | 4215.7 | 380.9 | 220.7 | 181.8 | 151.5 | 138.5 | 129.8 | 121.2 | 121.2 | 121.2 |
| 67.5° | 5942.7 | 4912.5 | 519.4 | 220.7 | 173.1 | 138.5 | 125.5 | 116.9 | 112.5 | 112.5 | 112.5 |
| 70° | 6799.6 | 6063.8 | 787.7 | 277.0 | 177.5 | 129.8 | 112.5 | 108.2 | 103.9 | 103.9 | 103.9 |
| 72.5° | 8561.2 | 7392.6 | 627.6 | 385.2 | 207.8 | 116.9 | 99.5 | 95.2 | 95.2 | 90.9 | 90.9 |
| 75° | 8569.9 | 6557.3 | 597.3 | 411.2 | 225.1 | 108.2 | 90.9 | 86.6 | 82.2 | 82.2 | 82.2 |
| 77.5° | 6336.5 | 4280.6 | 510.7 | 320.3 | 194.8 | 95.2 | 82.2 | 77.9 | 73.6 | 73.6 | 73.6 |
| 80° | 1869.8 | 1103.7 | 320.3 | 233.7 | 125.5 | 77.9 | 69.3 | 64.9 | 60.6 | 60.6 | 60.6 |
| 82.5° | 320.3 | 290.0 | 147.2 | 125.5 | 77.9 | 60.6 | 56.3 | 51.9 | 47.6 | 47.6 | 47.6 |
| 85° | 155.8 | 151.5 | 82.2 | 69.3 | 51.9 | 43.3 | 43.3 | 39.0 | 34.6 | 34.6 | 34.6 |
| 87.5° | 95.2 | 86.6 | 60.6 | 39.0 | 30.3 | 21.6 | 26.0 | 21.6 | 21.6 | 17.3 | 17.3 |
| 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)