

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: P190901

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21479.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 191
Input Voltage (V): NR
Input Current (A_{in}): 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

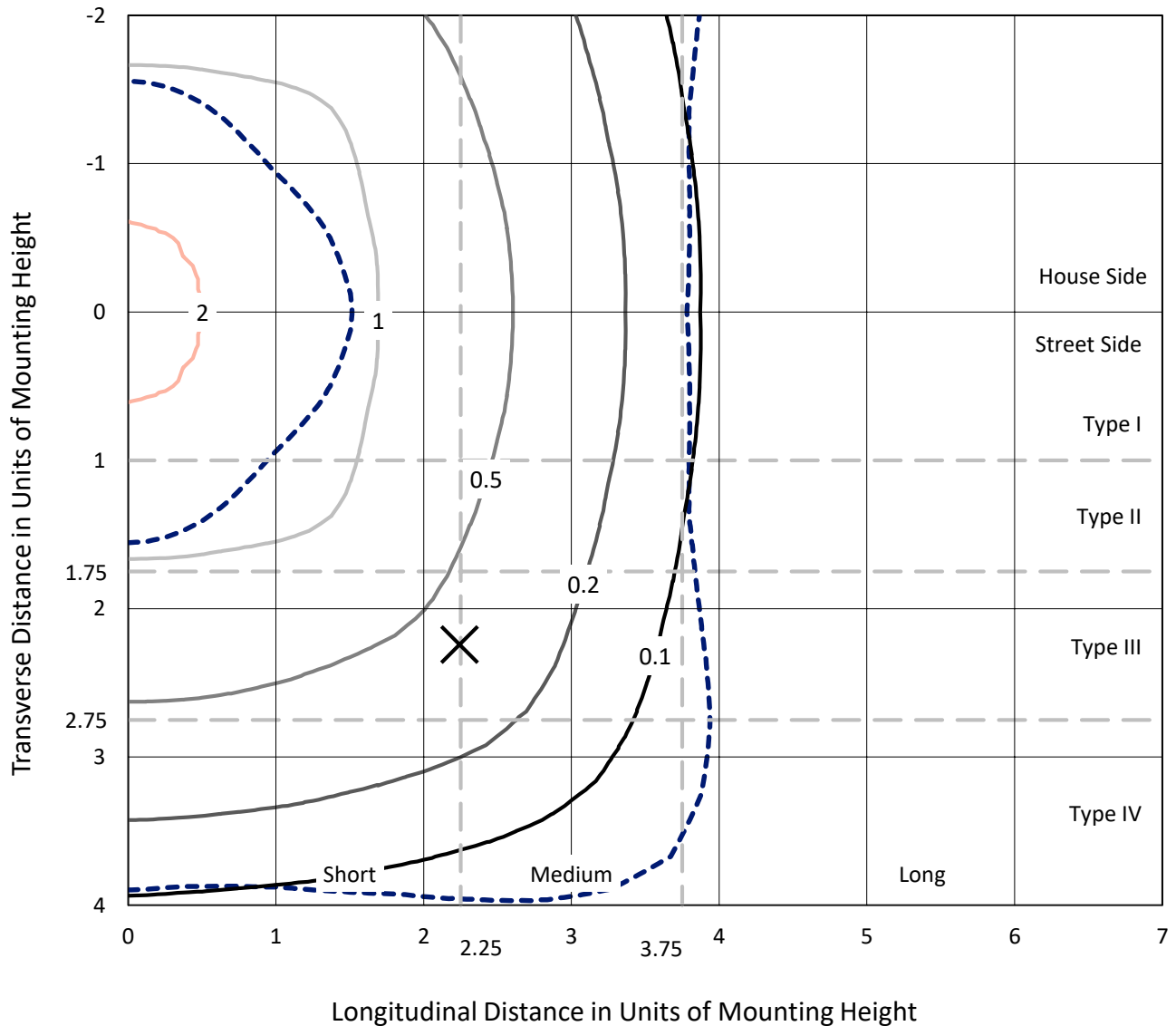


REPORT NUMBER: P190901

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

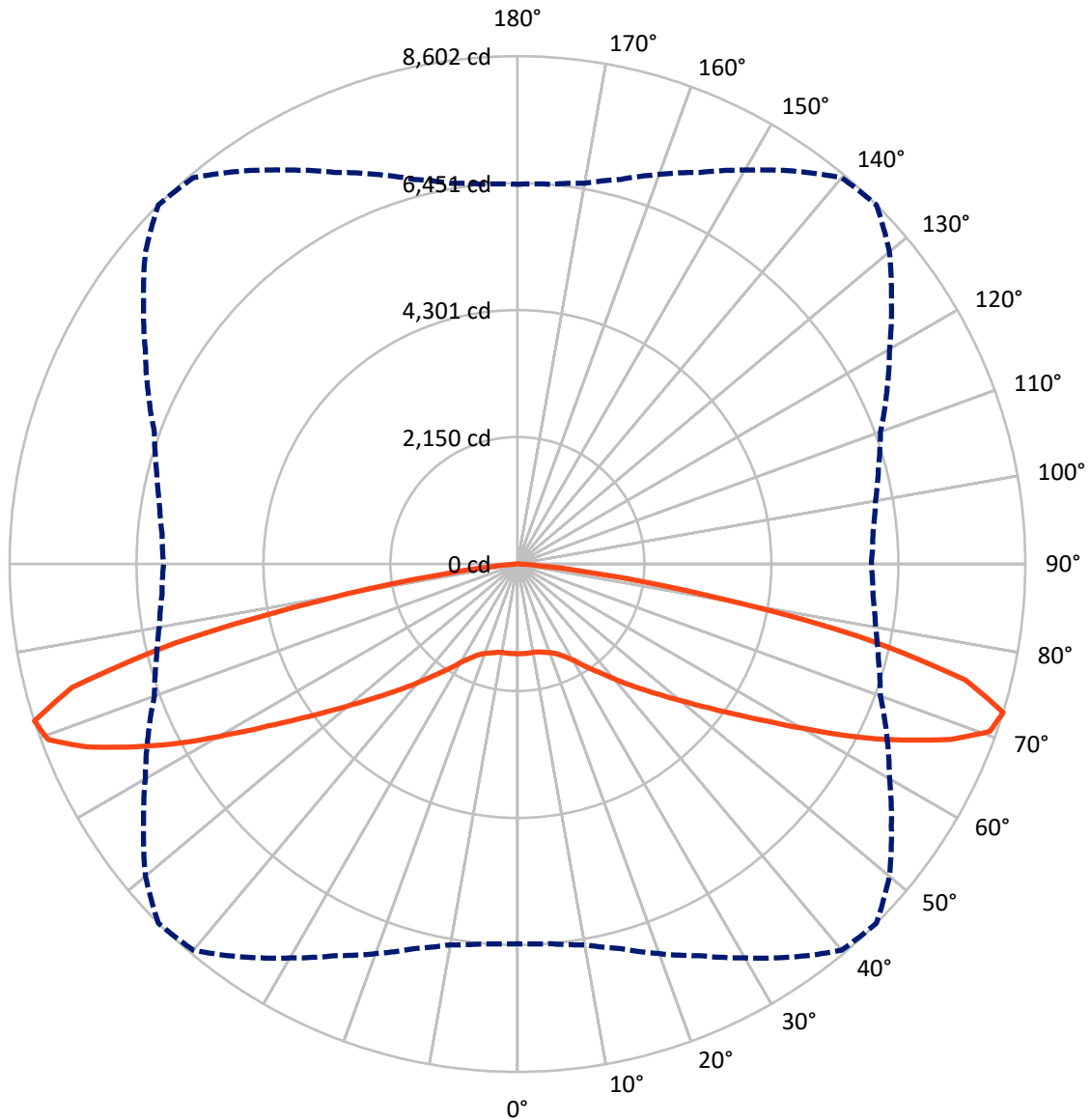


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P190901

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



REPORT NUMBER: P190901

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-1200-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10740.0 | 0.0 | 10740.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10740.0 | 0.0 | 10740.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21479.9 | 0.0 | 21479.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 145.2 | 0.7 |
| 10°-20° | 441.1 | 2.1 |
| 20°-30° | 806.1 | 3.8 |
| 30°-40° | 1389.9 | 6.5 |
| 40°-50° | 2376.0 | 11.1 |
| 50°-60° | 3851.3 | 17.9 |
| 60°-70° | 6389.1 | 29.7 |
| 70°-80° | 5627.3 | 26.2 |
| 80°-90° | 453.7 | 2.1 |
| 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° | 21479.9 | 100.0 |
| 0°-180° | 21479.9 | 100.0 |



REPORT NUMBER: P190901

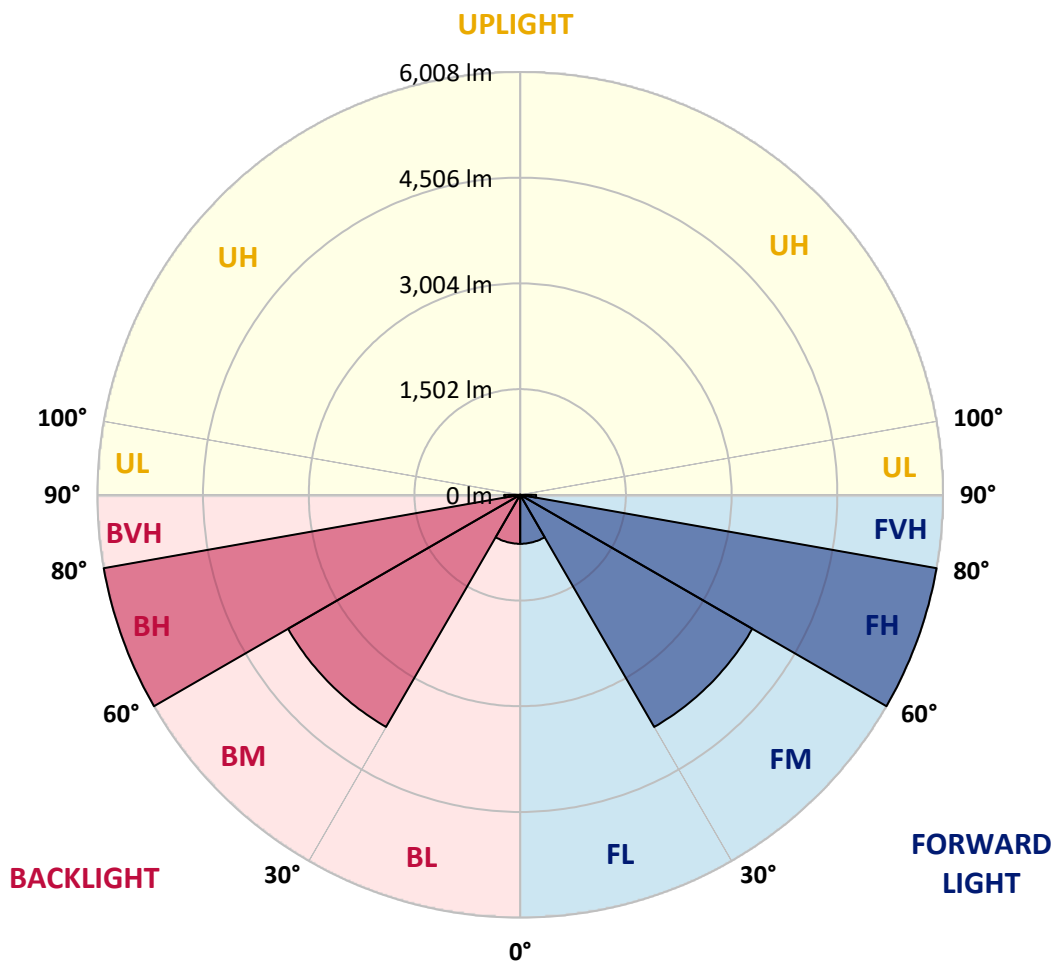
CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 696.3 | 3.2 | | | |
| FM | (30°-60°) | 3808.6 | 17.7 | | | |
| FH | (60°-80°) | 6008.2 | 28.0 | | | G3/7500 |
| FVH | (80°-90°) | 226.9 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 696.3 | 3.2 | B2/1000 | | |
| BM | (30°-60°) | 3808.6 | 17.7 | B3/5000 | | |
| BH | (60°-80°) | 6008.2 | 28.0 | B5 | | G3/7500 |
| BVH | (80°-90°) | 226.9 | 1.1 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P190901

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-1200-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 |
| 2.5° | 1521.1 | 1522.0 | 1523.1 | 1522.0 | 1522.0 | 1521.1 | 1520.1 | 1521.1 | 1520.1 | 1518.2 | 1519.2 |
| 5° | 1526.0 | 1528.0 | 1528.0 | 1526.0 | 1527.1 | 1526.0 | 1524.1 | 1525.0 | 1523.1 | 1520.1 | 1520.1 |
| 7.5° | 1532.0 | 1532.9 | 1532.9 | 1530.9 | 1532.0 | 1530.0 | 1528.0 | 1527.1 | 1525.0 | 1521.1 | 1518.2 |
| 10° | 1540.8 | 1541.8 | 1540.8 | 1538.8 | 1538.8 | 1535.9 | 1530.9 | 1529.0 | 1525.0 | 1519.2 | 1516.2 |
| 12.5° | 1550.7 | 1551.6 | 1550.7 | 1548.7 | 1547.7 | 1542.8 | 1538.8 | 1535.9 | 1532.9 | 1528.0 | 1523.1 |
| 15° | 1564.5 | 1566.4 | 1564.5 | 1560.5 | 1557.5 | 1553.7 | 1551.6 | 1552.6 | 1553.7 | 1549.7 | 1544.8 |
| 17.5° | 1590.1 | 1591.1 | 1588.1 | 1579.2 | 1575.3 | 1571.4 | 1571.4 | 1573.3 | 1576.3 | 1574.3 | 1569.4 |
| 20° | 1637.3 | 1634.4 | 1627.5 | 1616.7 | 1611.8 | 1604.8 | 1603.9 | 1604.8 | 1604.8 | 1603.9 | 1599.9 |
| 22.5° | 1696.5 | 1694.5 | 1685.6 | 1671.8 | 1665.0 | 1661.0 | 1655.1 | 1650.1 | 1649.2 | 1646.2 | 1642.2 |
| 25° | 1767.5 | 1766.4 | 1755.6 | 1743.7 | 1738.8 | 1733.9 | 1729.0 | 1722.1 | 1716.2 | 1709.2 | 1705.4 |
| 27.5° | 1858.1 | 1854.1 | 1838.3 | 1832.4 | 1825.6 | 1822.6 | 1815.6 | 1807.8 | 1802.8 | 1794.1 | 1789.0 |
| 30° | 1957.5 | 1957.5 | 1944.7 | 1942.8 | 1942.8 | 1935.8 | 1928.0 | 1914.2 | 1905.3 | 1896.4 | 1893.5 |
| 32.5° | 2057.1 | 2058.1 | 2045.2 | 2049.2 | 2052.1 | 2057.1 | 2059.0 | 2054.1 | 2048.2 | 2047.2 | 2041.3 |
| 35° | 2200.9 | 2197.0 | 2184.1 | 2187.1 | 2186.1 | 2185.1 | 2185.1 | 2196.0 | 2197.9 | 2199.9 | 2188.1 |
| 37.5° | 2379.2 | 2379.2 | 2366.4 | 2366.4 | 2360.5 | 2354.5 | 2346.6 | 2353.6 | 2364.4 | 2367.4 | 2359.5 |
| 40° | 2583.2 | 2590.0 | 2574.3 | 2573.2 | 2575.3 | 2556.6 | 2547.7 | 2558.5 | 2565.4 | 2577.2 | 2568.3 |
| 42.5° | 2823.5 | 2818.6 | 2802.8 | 2800.8 | 2790.0 | 2784.1 | 2776.2 | 2785.1 | 2795.9 | 2803.8 | 2806.8 |
| 45° | 3054.0 | 3050.1 | 3032.3 | 3032.3 | 3021.5 | 3016.6 | 3020.6 | 3035.3 | 3040.2 | 3051.1 | 3061.9 |
| 47.5° | 3281.6 | 3276.7 | 3264.8 | 3269.8 | 3270.8 | 3279.7 | 3292.5 | 3306.3 | 3320.1 | 3334.8 | 3339.7 |
| 50° | 3514.1 | 3515.1 | 3502.3 | 3514.1 | 3528.9 | 3553.5 | 3588.0 | 3610.7 | 3639.2 | 3658.0 | 3663.9 |
| 52.5° | 3725.9 | 3729.9 | 3743.7 | 3771.2 | 3800.8 | 3849.1 | 3908.2 | 3963.3 | 4010.7 | 4042.2 | 4040.2 |
| 55° | 3980.1 | 3986.0 | 4019.5 | 4066.8 | 4115.1 | 4188.0 | 4275.6 | 4373.2 | 4452.0 | 4497.3 | 4468.8 |
| 57.5° | 4305.2 | 4318.0 | 4355.4 | 4419.5 | 4491.4 | 4586.0 | 4706.2 | 4853.0 | 4975.1 | 5036.2 | 4990.0 |
| 60° | 4751.5 | 4759.4 | 4804.7 | 4875.6 | 4962.3 | 5079.6 | 5240.2 | 5437.2 | 5609.6 | 5690.4 | 5637.2 |
| 62.5° | 5339.7 | 5354.4 | 5390.8 | 5462.8 | 5551.5 | 5684.4 | 5880.5 | 6126.9 | 6341.6 | 6453.9 | 6333.7 |
| 65° | 6042.1 | 6089.4 | 6119.9 | 6192.8 | 6275.6 | 6416.5 | 6621.4 | 6885.4 | 7116.0 | 7189.8 | 7050.9 |
| 67.5° | 6737.7 | 6779.0 | 6832.2 | 6916.0 | 6999.6 | 7158.3 | 7348.5 | 7604.6 | 7857.8 | 7924.8 | 7709.0 |
| 70° | 7042.0 | 7065.7 | 7148.5 | 7262.7 | 7423.3 | 7610.4 | 7830.2 | 8117.8 | 8431.2 | 8486.3 | 8212.5 |
| 72.5° | 6432.2 | 6455.8 | 6548.4 | 6742.6 | 7022.4 | 7319.8 | 7703.1 | 8125.7 | 8539.5 | 8601.6 | 8224.2 |
| 75° | 4864.8 | 4826.4 | 4963.4 | 5220.4 | 5597.8 | 6012.5 | 6548.4 | 7154.3 | 7752.3 | 7830.2 | 7380.0 |
| 77.5° | 2514.2 | 2509.2 | 2612.7 | 2931.9 | 3382.1 | 3854.0 | 4444.1 | 5128.9 | 5714.0 | 5950.5 | 5584.0 |
| 80° | 708.3 | 716.3 | 765.5 | 924.1 | 1187.1 | 1528.0 | 1989.0 | 2630.4 | 3109.3 | 3353.5 | 3148.6 |
| 82.5° | 277.8 | 299.5 | 318.2 | 347.8 | 382.3 | 432.5 | 577.4 | 859.1 | 1152.7 | 1377.3 | 1128.0 |
| 85° | 99.5 | 106.4 | 150.8 | 178.3 | 181.3 | 191.1 | 217.7 | 254.2 | 306.4 | 365.5 | 300.4 |
| 87.5° | 37.4 | 41.3 | 48.3 | 79.8 | 78.8 | 71.9 | 87.7 | 91.7 | 68.9 | 63.0 | 77.8 |
| 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: P190901

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 |
| 2.5° | 1517.1 | 1518.2 | 1518.2 | 1519.2 | 1520.1 | 1520.1 | 1522.0 | 1522.0 |
| 5° | 1518.2 | 1518.2 | 1516.2 | 1517.1 | 1516.2 | 1516.2 | 1517.1 | 1517.1 |
| 7.5° | 1516.2 | 1515.2 | 1513.3 | 1512.2 | 1510.3 | 1510.3 | 1510.3 | 1510.3 |
| 10° | 1513.3 | 1512.2 | 1510.3 | 1509.3 | 1508.3 | 1508.3 | 1508.3 | 1508.3 |
| 12.5° | 1521.1 | 1518.2 | 1516.2 | 1515.2 | 1515.2 | 1515.2 | 1515.2 | 1515.2 |
| 15° | 1541.8 | 1534.9 | 1530.0 | 1530.0 | 1530.9 | 1532.9 | 1532.9 | 1534.9 |
| 17.5° | 1567.4 | 1559.5 | 1554.6 | 1550.7 | 1552.6 | 1555.6 | 1557.5 | 1559.5 |
| 20° | 1598.0 | 1594.1 | 1587.1 | 1583.2 | 1583.2 | 1587.1 | 1589.1 | 1590.1 |
| 22.5° | 1640.3 | 1637.3 | 1634.4 | 1629.5 | 1629.5 | 1631.4 | 1635.4 | 1635.4 |
| 25° | 1703.4 | 1701.4 | 1699.4 | 1695.4 | 1694.5 | 1694.5 | 1696.5 | 1698.4 |
| 27.5° | 1782.2 | 1783.2 | 1781.2 | 1780.2 | 1777.3 | 1776.3 | 1779.2 | 1778.2 |
| 30° | 1887.5 | 1892.6 | 1897.5 | 1893.5 | 1888.6 | 1885.6 | 1882.6 | 1878.8 |
| 32.5° | 2030.5 | 2024.5 | 2020.6 | 2013.7 | 2004.9 | 1996.9 | 1991.1 | 1984.1 |
| 35° | 2165.4 | 2155.6 | 2151.7 | 2157.5 | 2156.6 | 2151.7 | 2144.7 | 2138.8 |
| 37.5° | 2330.9 | 2329.0 | 2330.9 | 2341.7 | 2339.8 | 2344.7 | 2330.9 | 2330.0 |
| 40° | 2539.8 | 2541.7 | 2555.5 | 2568.3 | 2575.3 | 2582.1 | 2574.3 | 2566.4 |
| 42.5° | 2782.1 | 2781.2 | 2786.1 | 2803.8 | 2815.7 | 2823.5 | 2806.8 | 2804.8 |
| 45° | 3038.3 | 3031.4 | 3035.3 | 3050.1 | 3061.9 | 3070.8 | 3052.1 | 3052.1 |
| 47.5° | 3320.1 | 3308.2 | 3295.4 | 3312.2 | 3319.1 | 3325.0 | 3310.2 | 3305.3 |
| 50° | 3634.3 | 3609.7 | 3582.1 | 3589.0 | 3589.0 | 3587.0 | 3568.4 | 3567.3 |
| 52.5° | 3994.9 | 3949.6 | 3899.3 | 3880.6 | 3869.8 | 3858.0 | 3825.4 | 3809.7 |
| 55° | 4409.6 | 4341.7 | 4262.8 | 4214.6 | 4189.0 | 4156.5 | 4102.2 | 4087.5 |
| 57.5° | 4894.3 | 4787.9 | 4652.0 | 4592.8 | 4535.8 | 4482.6 | 4422.4 | 4405.7 |
| 60° | 5468.7 | 5312.1 | 5131.7 | 5022.4 | 4960.4 | 4909.1 | 4847.0 | 4844.1 |
| 62.5° | 6109.1 | 5861.8 | 5657.8 | 5559.3 | 5514.0 | 5468.7 | 5409.6 | 5417.4 |
| 65° | 6760.3 | 6502.2 | 6311.0 | 6231.2 | 6188.9 | 6151.4 | 6092.3 | 6101.2 |
| 67.5° | 7402.6 | 7165.2 | 6955.3 | 6873.6 | 6826.3 | 6779.0 | 6725.8 | 6734.7 |
| 70° | 7863.6 | 7569.1 | 7332.7 | 7151.3 | 7038.1 | 6910.0 | 6827.3 | 6806.6 |
| 72.5° | 7731.7 | 7277.5 | 6902.2 | 6542.6 | 6331.8 | 6160.3 | 6044.1 | 5993.8 |
| 75° | 6691.3 | 6070.7 | 5587.9 | 5146.6 | 4898.3 | 4696.4 | 4549.6 | 4457.9 |
| 77.5° | 4969.2 | 4271.7 | 3701.3 | 3192.9 | 2791.0 | 2521.1 | 2330.9 | 2207.7 |
| 80° | 2720.0 | 2068.9 | 1512.2 | 1063.1 | 781.2 | 649.3 | 573.4 | 536.9 |
| 82.5° | 847.2 | 546.8 | 402.9 | 347.8 | 323.2 | 309.3 | 286.7 | 250.2 |
| 85° | 270.0 | 236.4 | 219.7 | 209.8 | 200.0 | 174.4 | 120.2 | 109.4 |
| 87.5° | 104.4 | 107.4 | 106.4 | 100.5 | 102.5 | 73.9 | 59.1 | 52.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)