

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: P268422

Luminaire Tested: **GAN-AF-04-LED-U-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-RW-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14049.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

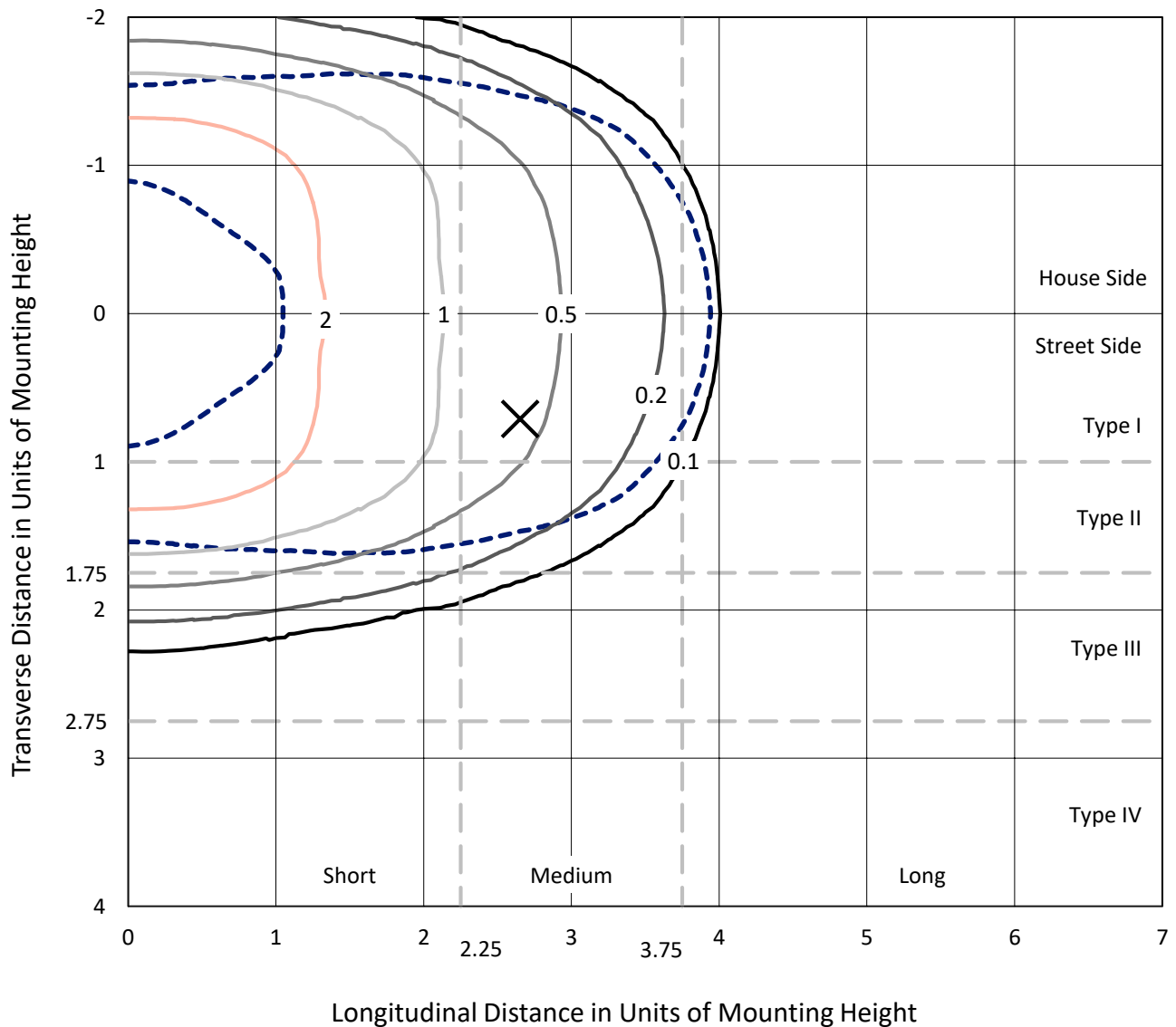
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

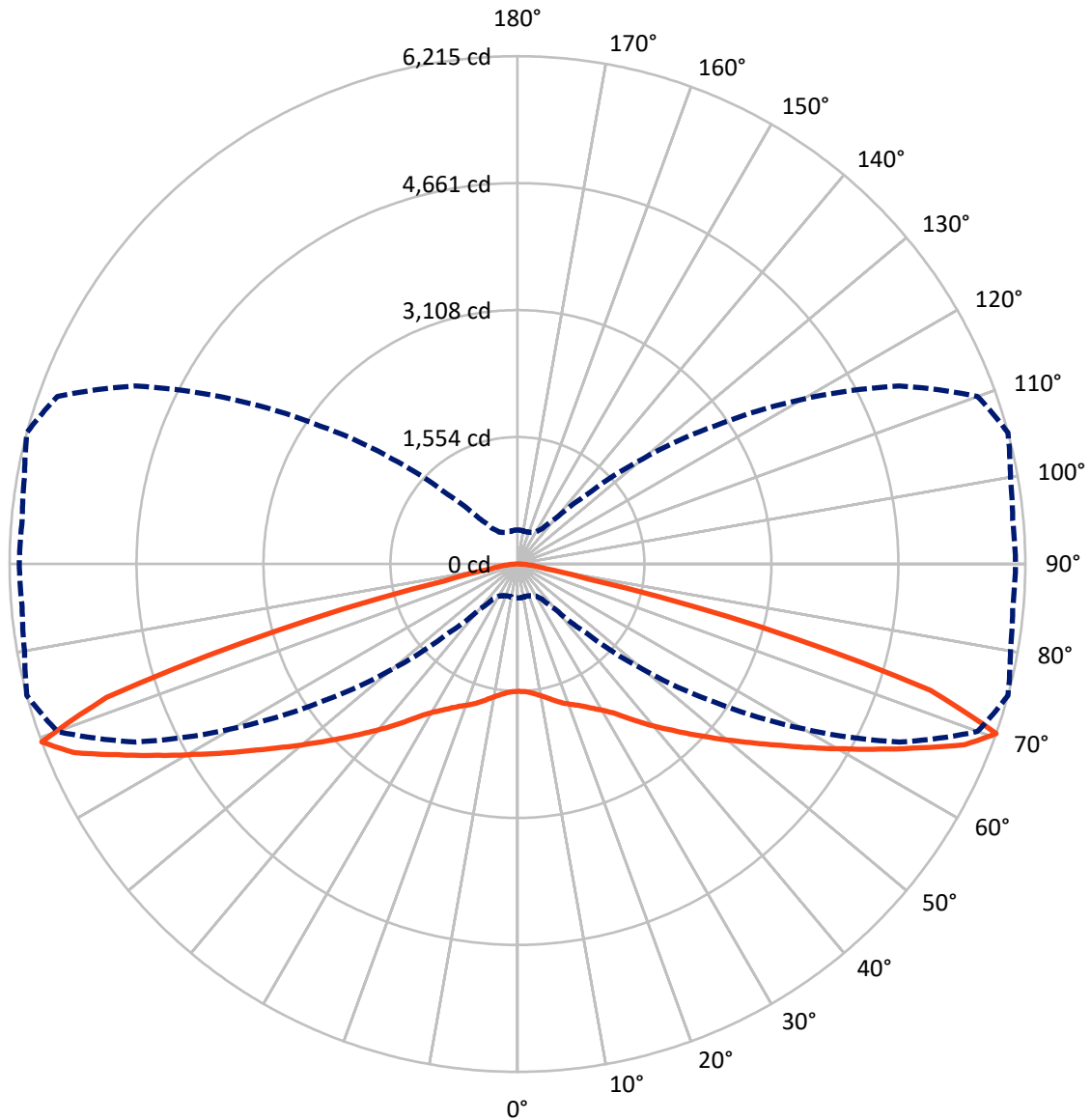
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7025.0 | 0.0 | 7025.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7025.0 | 0.0 | 7025.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14049.9 | 0.0 | 14049.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 149.5 | 1.1 |
| 10°-20° | 464.4 | 3.3 |
| 20°-30° | 874.1 | 6.2 |
| 30°-40° | 1547.9 | 11.0 |
| 40°-50° | 2588.6 | 18.4 |
| 50°-60° | 3607.2 | 25.7 |
| 60°-70° | 3345.1 | 23.8 |
| 70°-80° | 1333.1 | 9.5 |
| 80°-90° | 140.1 | 1.0 |
| 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° | 14049.9 | 100.0 |
| 0°-180° | 14049.9 | 100.0 |



REPORT NUMBER: P268422

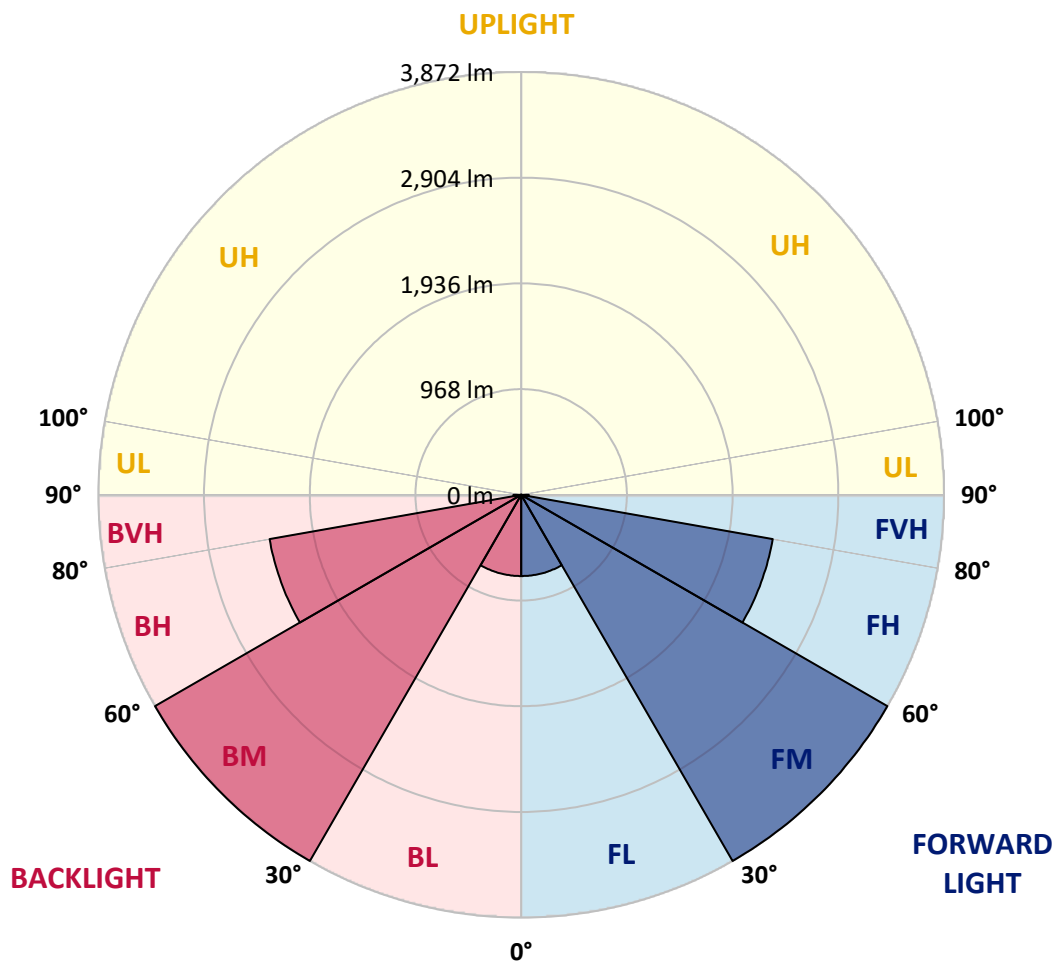
CATALOG NUMBER: GAN-AF-04-LED-U-RW-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 744.0 | 5.3 | | | |
| FM | (30°-60°) | 3871.8 | 27.6 | | | |
| FH | (60°-80°) | 2339.1 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 70.1 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 744.0 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 3871.8 | 27.6 | B3/5000 | | |
| BH | (60°-80°) | 2339.1 | 16.6 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 70.1 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Medium





REPORT NUMBER: P268422

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 |
| 2.5° | 1555.9 | 1554.4 | 1555.9 | 1555.1 | 1556.5 | 1556.5 | 1557.8 | 1560.4 | 1560.4 | 1562.4 | 1561.8 |
| 5° | 1540.6 | 1539.9 | 1541.9 | 1543.8 | 1545.9 | 1549.8 | 1553.8 | 1559.7 | 1564.5 | 1567.7 | 1571.0 |
| 7.5° | 1510.7 | 1510.7 | 1513.4 | 1518.0 | 1522.5 | 1531.3 | 1540.6 | 1552.5 | 1564.5 | 1574.4 | 1583.1 |
| 10° | 1486.1 | 1487.5 | 1490.7 | 1498.7 | 1506.6 | 1519.9 | 1532.6 | 1549.8 | 1566.5 | 1583.1 | 1596.3 |
| 12.5° | 1471.5 | 1473.5 | 1479.5 | 1491.4 | 1504.8 | 1522.5 | 1541.9 | 1563.8 | 1582.4 | 1602.2 | 1615.6 |
| 15° | 1476.2 | 1477.4 | 1486.1 | 1500.7 | 1518.0 | 1540.6 | 1566.5 | 1592.3 | 1614.3 | 1635.5 | 1653.4 |
| 17.5° | 1502.1 | 1504.0 | 1514.0 | 1530.6 | 1548.5 | 1575.1 | 1602.9 | 1632.2 | 1659.3 | 1683.3 | 1705.3 |
| 20° | 1548.5 | 1550.5 | 1563.1 | 1581.0 | 1602.2 | 1629.5 | 1657.5 | 1687.9 | 1718.5 | 1743.7 | 1768.4 |
| 22.5° | 1614.3 | 1617.6 | 1629.5 | 1647.4 | 1671.3 | 1700.5 | 1733.8 | 1766.2 | 1795.5 | 1818.8 | 1840.6 |
| 25° | 1700.5 | 1707.9 | 1719.1 | 1739.1 | 1764.4 | 1791.0 | 1826.8 | 1859.9 | 1887.8 | 1909.7 | 1925.6 |
| 27.5° | 1822.8 | 1832.7 | 1841.3 | 1860.6 | 1885.2 | 1910.3 | 1946.3 | 1975.5 | 2002.1 | 2023.3 | 2035.2 |
| 30° | 1984.7 | 1994.7 | 2003.4 | 2021.9 | 2044.5 | 2068.4 | 2102.4 | 2128.2 | 2144.9 | 2161.4 | 2160.8 |
| 32.5° | 2181.4 | 2192.0 | 2195.3 | 2215.2 | 2238.4 | 2264.3 | 2294.9 | 2309.5 | 2322.7 | 2324.8 | 2312.7 |
| 35° | 2401.1 | 2406.4 | 2419.8 | 2446.3 | 2472.9 | 2494.1 | 2523.2 | 2530.5 | 2530.5 | 2520.6 | 2494.1 |
| 37.5° | 2642.2 | 2645.5 | 2664.1 | 2693.9 | 2721.1 | 2743.1 | 2762.9 | 2777.6 | 2770.4 | 2749.1 | 2704.5 |
| 40° | 2906.5 | 2912.5 | 2939.0 | 2965.6 | 2996.0 | 3016.7 | 3037.9 | 3040.6 | 3033.2 | 3002.0 | 2941.6 |
| 42.5° | 3158.8 | 3164.1 | 3190.6 | 3232.6 | 3272.3 | 3300.8 | 3320.8 | 3324.7 | 3301.5 | 3273.0 | 3198.0 |
| 45° | 3375.9 | 3389.8 | 3424.3 | 3473.4 | 3531.2 | 3571.8 | 3599.0 | 3610.3 | 3589.6 | 3552.5 | 3465.5 |
| 47.5° | 3547.9 | 3561.8 | 3610.9 | 3669.3 | 3741.1 | 3806.8 | 3852.0 | 3875.8 | 3870.5 | 3842.7 | 3747.8 |
| 50° | 3674.1 | 3687.4 | 3740.5 | 3812.1 | 3895.8 | 3977.4 | 4054.5 | 4111.6 | 4131.6 | 4119.0 | 4032.0 |
| 52.5° | 3688.6 | 3710.5 | 3773.1 | 3869.3 | 3978.1 | 4089.8 | 4199.2 | 4296.2 | 4362.0 | 4372.0 | 4307.6 |
| 55° | 3484.7 | 3506.8 | 3593.0 | 3735.8 | 3897.8 | 4079.7 | 4255.0 | 4418.5 | 4547.8 | 4614.4 | 4580.5 |
| 57.5° | 3004.0 | 3043.2 | 3134.1 | 3301.5 | 3540.0 | 3812.1 | 4091.7 | 4381.9 | 4645.6 | 4821.5 | 4855.2 |
| 60° | 2302.1 | 2348.7 | 2440.2 | 2618.2 | 2883.9 | 3208.6 | 3581.7 | 4010.8 | 4476.2 | 4872.0 | 5108.3 |
| 62.5° | 1476.9 | 1520.7 | 1616.9 | 1771.5 | 1988.0 | 2340.1 | 2740.4 | 3249.7 | 3875.3 | 4500.1 | 5063.1 |
| 65° | 759.0 | 783.0 | 833.4 | 927.1 | 1095.7 | 1358.5 | 1717.7 | 2225.8 | 2941.0 | 3711.8 | 4526.0 |
| 67.5° | 480.8 | 485.4 | 496.8 | 510.0 | 553.1 | 644.2 | 811.3 | 1128.2 | 1716.5 | 2520.6 | 3473.4 |
| 70° | 415.6 | 415.6 | 410.3 | 408.4 | 413.7 | 426.2 | 452.1 | 525.9 | 724.5 | 1196.5 | 2003.4 |
| 72.5° | 380.5 | 376.5 | 367.1 | 360.0 | 358.6 | 358.6 | 364.0 | 375.2 | 407.0 | 487.4 | 784.2 |
| 75° | 350.6 | 339.3 | 326.8 | 318.1 | 314.8 | 311.4 | 310.8 | 312.8 | 319.3 | 332.1 | 374.6 |
| 77.5° | 314.0 | 299.4 | 284.9 | 276.1 | 272.2 | 267.6 | 263.7 | 259.0 | 255.7 | 259.6 | 278.3 |
| 80° | 270.3 | 253.6 | 242.4 | 237.1 | 233.1 | 226.5 | 217.7 | 209.8 | 202.5 | 201.2 | 212.4 |
| 82.5° | 217.7 | 198.5 | 199.2 | 201.2 | 193.9 | 184.6 | 175.3 | 166.6 | 154.1 | 147.4 | 154.1 |
| 85° | 176.0 | 165.9 | 161.3 | 174.0 | 163.3 | 149.4 | 134.7 | 119.6 | 99.6 | 83.6 | 91.0 |
| 87.5° | 68.5 | 68.5 | 102.2 | 157.4 | 141.5 | 115.5 | 99.0 | 84.4 | 52.5 | 40.6 | 41.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GAN-AF-04-LED-U-RW-7027-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 | 1558.5 |
| 2.5° | 1561.2 | 1562.4 | 1561.8 | 1561.2 | 1561.2 | 1560.4 | 1561.2 | 1561.2 |
| 5° | 1573.1 | 1576.3 | 1576.3 | 1577.8 | 1577.8 | 1578.4 | 1579.0 | 1578.4 |
| 7.5° | 1591.0 | 1596.9 | 1601.0 | 1605.6 | 1606.3 | 1607.0 | 1608.2 | 1607.0 |
| 10° | 1609.0 | 1620.9 | 1629.5 | 1638.1 | 1642.1 | 1643.4 | 1644.7 | 1644.7 |
| 12.5° | 1631.5 | 1648.1 | 1663.4 | 1678.7 | 1685.9 | 1689.9 | 1689.9 | 1692.5 |
| 15° | 1668.7 | 1685.3 | 1703.2 | 1723.8 | 1736.5 | 1743.0 | 1745.0 | 1745.0 |
| 17.5° | 1721.2 | 1735.7 | 1751.1 | 1771.0 | 1786.9 | 1795.5 | 1797.5 | 1796.8 |
| 20° | 1782.2 | 1796.3 | 1804.9 | 1817.5 | 1831.4 | 1841.3 | 1844.0 | 1844.0 |
| 22.5° | 1851.9 | 1859.9 | 1861.3 | 1865.2 | 1876.5 | 1889.9 | 1895.9 | 1897.1 |
| 25° | 1929.0 | 1930.9 | 1925.6 | 1925.6 | 1933.0 | 1945.5 | 1951.6 | 1952.2 |
| 27.5° | 2028.6 | 2018.6 | 2005.3 | 2000.7 | 2005.3 | 2020.0 | 2027.3 | 2029.9 |
| 30° | 2152.8 | 2128.9 | 2098.4 | 2081.7 | 2079.0 | 2098.4 | 2111.6 | 2113.6 |
| 32.5° | 2294.9 | 2260.3 | 2219.8 | 2185.9 | 2177.3 | 2189.3 | 2205.2 | 2204.6 |
| 35° | 2463.5 | 2422.4 | 2373.2 | 2330.1 | 2310.1 | 2322.1 | 2344.7 | 2347.4 |
| 37.5° | 2658.1 | 2604.2 | 2547.9 | 2493.4 | 2462.3 | 2465.5 | 2489.5 | 2497.4 |
| 40° | 2875.2 | 2805.4 | 2734.4 | 2661.4 | 2616.9 | 2608.3 | 2637.6 | 2642.2 |
| 42.5° | 3107.6 | 3017.9 | 2928.4 | 2838.0 | 2781.0 | 2767.7 | 2801.5 | 2799.5 |
| 45° | 3355.3 | 3241.1 | 3136.3 | 3036.6 | 2968.9 | 2949.0 | 2976.9 | 2976.9 |
| 47.5° | 3621.5 | 3480.8 | 3356.0 | 3243.2 | 3169.4 | 3140.8 | 3167.5 | 3169.4 |
| 50° | 3903.8 | 3754.3 | 3607.7 | 3482.1 | 3393.8 | 3357.2 | 3391.8 | 3397.1 |
| 52.5° | 4184.7 | 4039.3 | 3891.2 | 3747.8 | 3640.8 | 3596.4 | 3636.2 | 3653.4 |
| 55° | 4469.5 | 4326.7 | 4185.4 | 4045.2 | 3918.3 | 3865.9 | 3908.4 | 3930.4 |
| 57.5° | 4770.3 | 4638.2 | 4503.5 | 4362.0 | 4239.8 | 4158.2 | 4203.3 | 4232.5 |
| 60° | 5122.9 | 5010.0 | 4869.9 | 4713.9 | 4590.3 | 4507.3 | 4533.2 | 4559.2 |
| 62.5° | 5401.8 | 5445.6 | 5326.8 | 5146.2 | 4987.5 | 4881.2 | 4906.5 | 4933.8 |
| 65° | 5267.0 | 5716.5 | 5822.2 | 5639.6 | 5419.7 | 5254.5 | 5243.8 | 5257.7 |
| 67.5° | 4402.5 | 5275.7 | 5912.5 | 6086.5 | 5902.6 | 5672.7 | 5630.2 | 5650.9 |
| 70° | 2945.0 | 4032.6 | 5156.1 | 5992.9 | 6215.3 | 6126.4 | 6084.4 | 6097.1 |
| 72.5° | 1414.4 | 2348.7 | 3498.1 | 4610.3 | 5287.7 | 5598.3 | 5697.9 | 5746.5 |
| 75° | 517.2 | 932.4 | 1685.9 | 2540.5 | 3067.2 | 3550.6 | 3865.9 | 3994.8 |
| 77.5° | 312.2 | 376.5 | 538.5 | 810.8 | 918.3 | 1027.9 | 985.4 | 1006.7 |
| 80° | 231.0 | 261.0 | 295.5 | 332.1 | 344.1 | 344.1 | 330.7 | 320.1 |
| 82.5° | 162.1 | 181.3 | 197.8 | 217.7 | 223.0 | 213.2 | 175.3 | 139.4 |
| 85° | 104.3 | 112.8 | 120.3 | 132.8 | 129.4 | 123.4 | 83.1 | 73.8 |
| 87.5° | 47.8 | 54.4 | 57.1 | 63.2 | 60.5 | 57.9 | 41.1 | 34.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)