

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: P192571

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11945.3 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 96
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

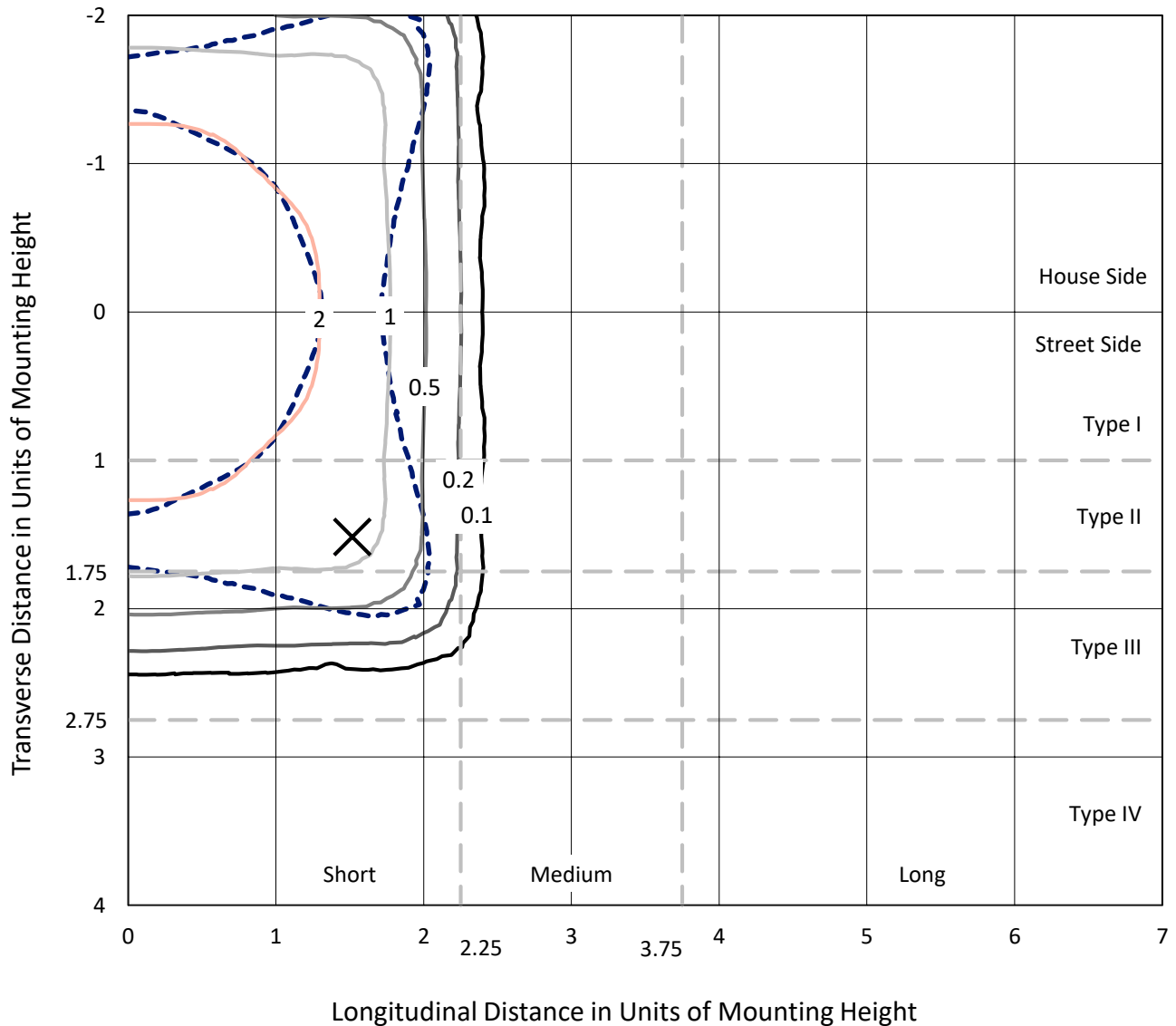


REPORT NUMBER: P192571

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

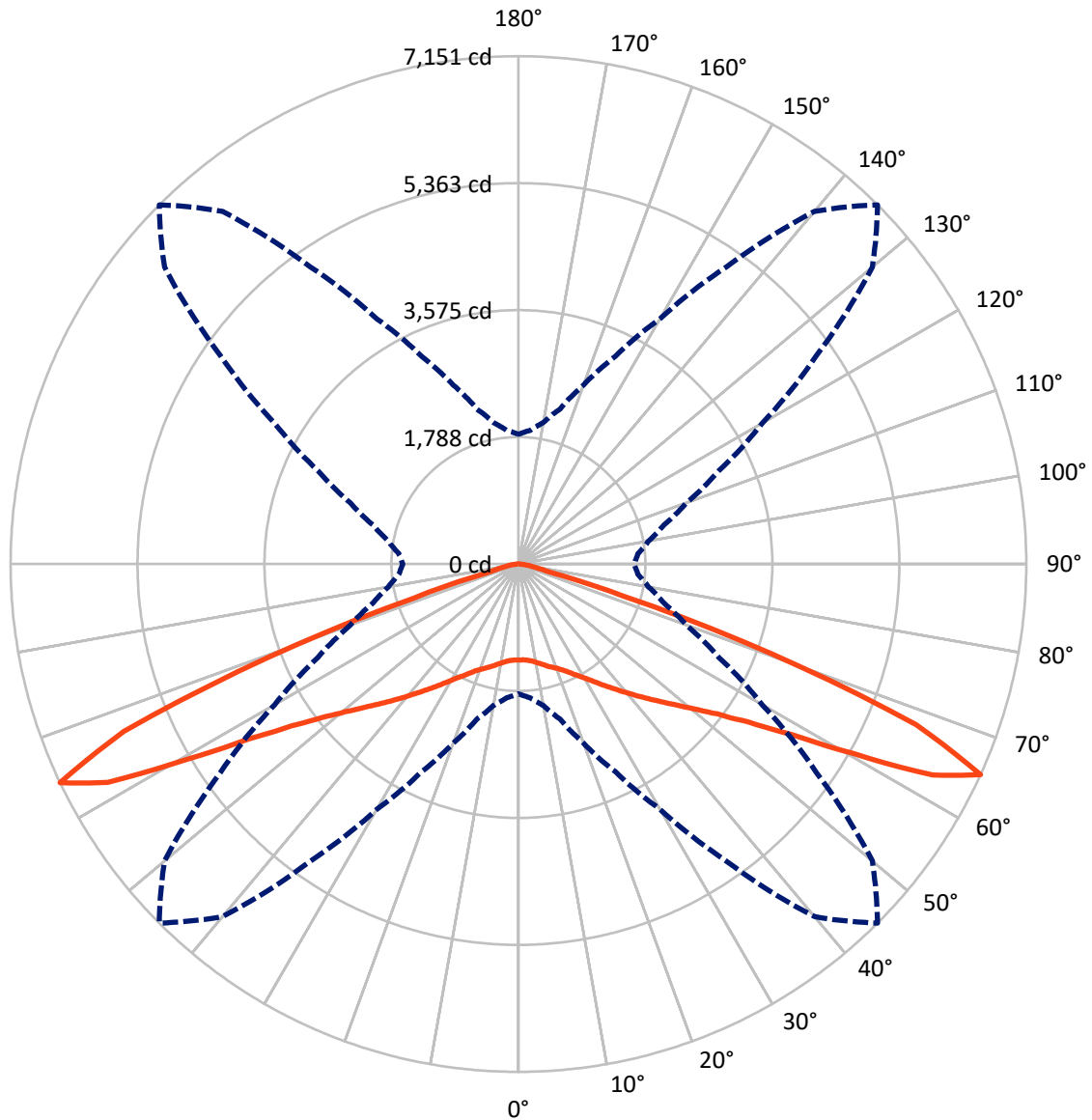


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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CATALOG NUMBER: GAN-AF-03-LED-U-5NQ-7030-600

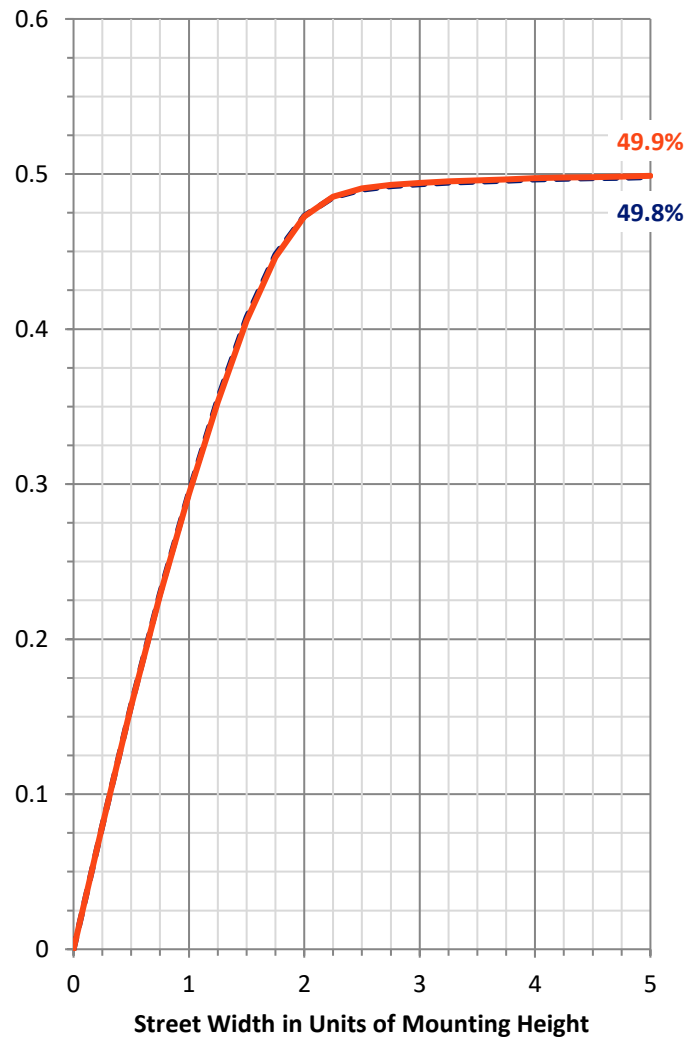
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5972.6 | 0.0 | 5972.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5972.6 | 0.0 | 5972.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11945.3 | 0.0 | 11945.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 131.7 | 1.1 |
| 10°-20° | 422.5 | 3.5 |
| 20°-30° | 790.0 | 6.6 |
| 30°-40° | 1336.1 | 11.2 |
| 40°-50° | 2184.7 | 18.3 |
| 50°-60° | 3474.1 | 29.1 |
| 60°-70° | 3140.3 | 26.3 |
| 70°-80° | 397.4 | 3.3 |
| 80°-90° | 68.4 | 0.6 |
| 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° | 11945.3 | 100.0 |
| 0°-180° | 11945.3 | 100.0 |



--- HS — SS

REPORT NUMBER: P192571

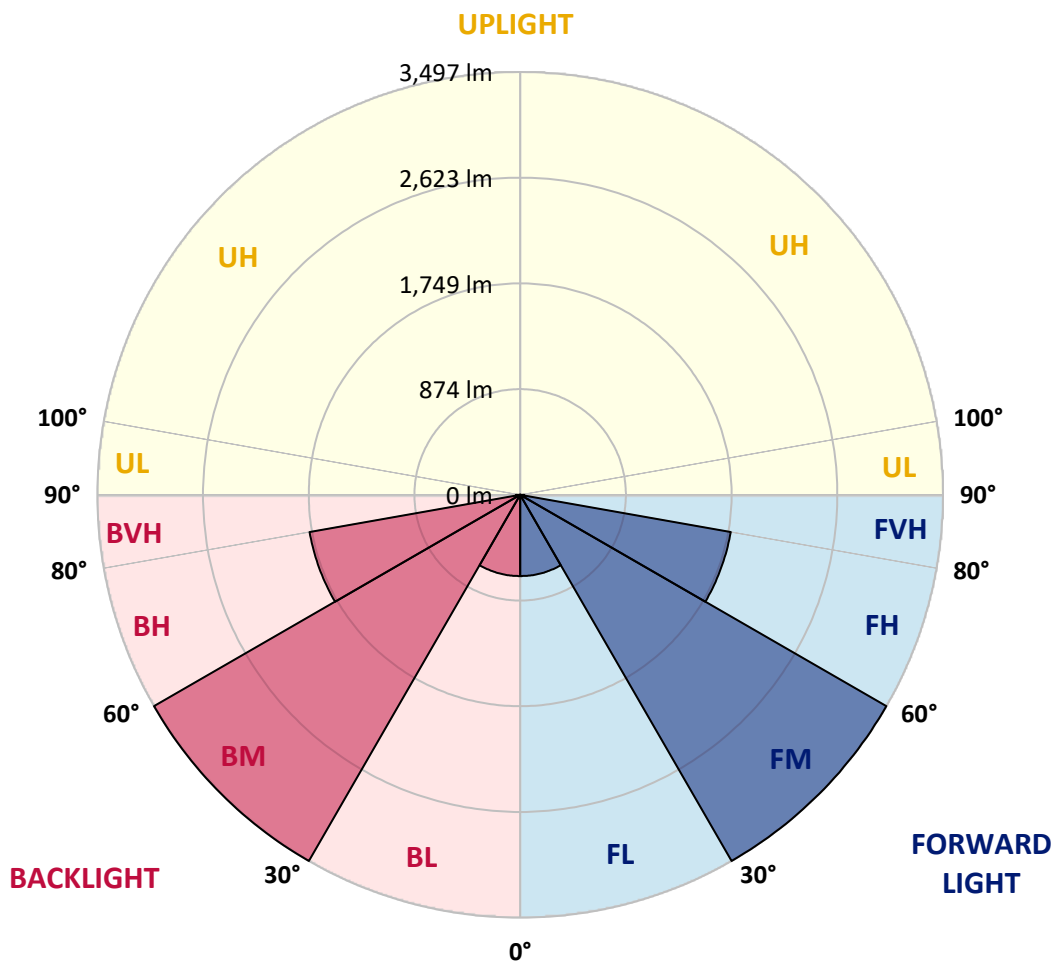
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 672.1 | 5.6 | | | |
| FM (30°-60°) | 3497.5 | 29.3 | | | |
| FH (60°-80°) | 1768.9 | 14.8 | | | G1/1800 |
| FVH (80°-90°) | 34.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 672.1 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 3497.5 | 29.3 | B3/5000 | | |
| BH (60°-80°) | 1768.9 | 14.8 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 34.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P192571

CATALOG NUMBER: GAN-AF-03-LED-U-5NQ-7030-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 |
| 2.5° | 1352.7 | 1353.8 | 1355.0 | 1353.8 | 1355.0 | 1353.2 | 1352.2 | 1353.8 | 1352.2 | 1350.6 | 1351.6 |
| 5° | 1364.5 | 1365.0 | 1365.0 | 1363.3 | 1365.0 | 1363.9 | 1362.3 | 1364.5 | 1362.8 | 1361.2 | 1362.3 |
| 7.5° | 1384.1 | 1386.3 | 1384.7 | 1382.9 | 1384.1 | 1382.9 | 1381.8 | 1382.3 | 1381.8 | 1380.2 | 1380.7 |
| 10° | 1410.3 | 1412.0 | 1411.0 | 1410.3 | 1411.5 | 1411.0 | 1409.8 | 1409.2 | 1409.8 | 1408.2 | 1408.2 |
| 12.5° | 1442.2 | 1441.6 | 1441.1 | 1441.6 | 1443.4 | 1443.4 | 1442.8 | 1443.4 | 1444.5 | 1445.1 | 1444.0 |
| 15° | 1473.6 | 1474.7 | 1474.7 | 1474.7 | 1478.1 | 1480.9 | 1482.5 | 1483.6 | 1485.9 | 1486.5 | 1484.2 |
| 17.5° | 1512.7 | 1512.7 | 1512.1 | 1512.7 | 1516.1 | 1520.6 | 1522.2 | 1524.5 | 1526.7 | 1528.4 | 1525.6 |
| 20° | 1556.4 | 1557.5 | 1557.5 | 1558.6 | 1563.1 | 1568.1 | 1568.1 | 1569.3 | 1568.1 | 1569.3 | 1567.6 |
| 22.5° | 1609.5 | 1612.8 | 1612.8 | 1613.4 | 1617.9 | 1624.0 | 1622.4 | 1624.0 | 1621.3 | 1623.5 | 1621.3 |
| 25° | 1678.9 | 1683.9 | 1682.8 | 1682.8 | 1686.2 | 1690.1 | 1690.7 | 1693.9 | 1693.4 | 1696.2 | 1694.6 |
| 27.5° | 1757.2 | 1765.1 | 1767.3 | 1766.7 | 1769.0 | 1772.8 | 1774.1 | 1777.8 | 1775.7 | 1777.8 | 1776.8 |
| 30° | 1851.2 | 1854.5 | 1859.0 | 1860.6 | 1863.5 | 1867.5 | 1867.5 | 1868.0 | 1865.2 | 1868.6 | 1870.2 |
| 32.5° | 1948.5 | 1954.6 | 1959.1 | 1969.3 | 1974.4 | 1977.0 | 1976.5 | 1977.6 | 1974.9 | 1979.3 | 1982.6 |
| 35° | 2077.2 | 2081.7 | 2088.9 | 2096.8 | 2103.5 | 2102.9 | 2101.3 | 2101.8 | 2101.8 | 2105.8 | 2109.1 |
| 37.5° | 2232.1 | 2233.3 | 2242.8 | 2254.0 | 2257.4 | 2254.0 | 2243.9 | 2241.7 | 2236.6 | 2241.7 | 2247.3 |
| 40° | 2396.0 | 2400.0 | 2419.0 | 2426.3 | 2428.0 | 2421.8 | 2407.3 | 2398.9 | 2387.8 | 2393.9 | 2401.7 |
| 42.5° | 2567.8 | 2575.7 | 2593.0 | 2606.0 | 2611.6 | 2607.6 | 2587.5 | 2574.5 | 2560.1 | 2563.3 | 2571.2 |
| 45° | 2758.0 | 2767.5 | 2792.2 | 2804.4 | 2815.2 | 2808.9 | 2789.4 | 2769.8 | 2746.9 | 2748.5 | 2760.9 |
| 47.5° | 2970.6 | 2980.1 | 3012.1 | 3032.7 | 3038.4 | 3037.2 | 3015.4 | 2988.6 | 2957.2 | 2956.1 | 2966.7 |
| 50° | 3209.0 | 3218.4 | 3258.2 | 3290.2 | 3306.3 | 3304.6 | 3278.9 | 3240.8 | 3202.8 | 3203.4 | 3216.8 |
| 52.5° | 3441.6 | 3453.4 | 3494.8 | 3549.8 | 3581.5 | 3604.5 | 3588.8 | 3553.0 | 3506.5 | 3507.8 | 3520.0 |
| 55° | 3659.8 | 3679.5 | 3727.1 | 3801.4 | 3860.6 | 3925.0 | 3943.5 | 3942.4 | 3914.4 | 3922.3 | 3934.5 |
| 57.5° | 3765.6 | 3794.7 | 3868.0 | 3985.4 | 4106.3 | 4237.2 | 4348.0 | 4430.8 | 4466.1 | 4519.2 | 4506.8 |
| 60° | 3565.3 | 3611.8 | 3719.7 | 3892.6 | 4131.5 | 4404.5 | 4697.0 | 4983.0 | 5226.9 | 5410.9 | 5305.2 |
| 62.5° | 2919.2 | 2979.6 | 3110.5 | 3332.1 | 3693.5 | 4130.3 | 4690.4 | 5366.2 | 6102.4 | 6546.6 | 6229.4 |
| 65° | 1826.6 | 1889.2 | 2022.4 | 2259.6 | 2682.6 | 3225.8 | 3985.4 | 5105.4 | 6481.2 | 7150.8 | 6505.2 |
| 67.5° | 712.2 | 746.4 | 818.5 | 970.1 | 1287.8 | 1771.2 | 2533.7 | 3804.7 | 5450.1 | 6037.0 | 5348.9 |
| 70° | 356.9 | 360.3 | 373.6 | 401.6 | 470.0 | 610.3 | 928.7 | 1763.9 | 3125.6 | 3775.1 | 3013.2 |
| 72.5° | 257.9 | 258.5 | 265.2 | 277.5 | 299.3 | 330.6 | 391.0 | 539.8 | 1016.5 | 1553.5 | 952.7 |
| 75° | 197.4 | 199.7 | 203.7 | 210.4 | 222.2 | 237.7 | 259.6 | 311.1 | 385.4 | 447.0 | 376.0 |
| 77.5° | 152.2 | 156.7 | 159.4 | 165.6 | 172.8 | 183.4 | 189.7 | 209.2 | 243.3 | 256.2 | 252.3 |
| 80° | 115.9 | 119.7 | 125.8 | 130.9 | 135.9 | 141.0 | 138.8 | 147.7 | 165.6 | 176.2 | 170.7 |
| 82.5° | 73.9 | 78.3 | 96.2 | 100.7 | 102.9 | 106.3 | 102.3 | 102.9 | 110.8 | 117.5 | 110.8 |
| 85° | 47.5 | 50.4 | 60.9 | 66.5 | 67.0 | 69.4 | 67.7 | 63.8 | 63.8 | 58.2 | 65.4 |
| 87.5° | 21.9 | 22.4 | 27.5 | 32.4 | 33.6 | 30.1 | 29.6 | 28.5 | 23.0 | 21.9 | 23.5 |
| 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: P192571

CATALOG NUMBER: GAN-AF-03-LED-U-5NQ-7030-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 |
| 2.5° | 1351.1 | 1352.2 | 1352.7 | 1354.4 | 1355.0 | 1355.0 | 1355.6 | 1356.7 |
| 5° | 1361.7 | 1363.3 | 1363.9 | 1366.2 | 1366.8 | 1366.2 | 1367.3 | 1367.8 |
| 7.5° | 1380.7 | 1383.5 | 1384.7 | 1386.8 | 1385.2 | 1387.4 | 1388.0 | 1388.0 |
| 10° | 1408.7 | 1411.5 | 1412.0 | 1414.3 | 1413.2 | 1414.3 | 1414.3 | 1413.2 |
| 12.5° | 1445.6 | 1446.1 | 1444.5 | 1446.1 | 1444.0 | 1445.1 | 1443.4 | 1442.2 |
| 15° | 1486.5 | 1484.8 | 1480.9 | 1480.9 | 1477.5 | 1478.1 | 1477.5 | 1476.9 |
| 17.5° | 1526.2 | 1522.8 | 1520.1 | 1518.9 | 1516.1 | 1515.5 | 1513.9 | 1513.9 |
| 20° | 1569.8 | 1568.1 | 1566.4 | 1564.1 | 1561.5 | 1558.6 | 1558.0 | 1559.1 |
| 22.5° | 1622.4 | 1621.9 | 1621.9 | 1620.8 | 1616.8 | 1614.0 | 1612.3 | 1612.3 |
| 25° | 1692.9 | 1687.8 | 1687.8 | 1687.3 | 1685.7 | 1683.9 | 1680.6 | 1682.3 |
| 27.5° | 1772.3 | 1769.6 | 1771.7 | 1771.2 | 1769.6 | 1769.6 | 1767.3 | 1767.3 |
| 30° | 1870.2 | 1869.1 | 1872.4 | 1869.7 | 1864.1 | 1863.5 | 1861.2 | 1858.5 |
| 32.5° | 1983.3 | 1982.1 | 1987.1 | 1983.8 | 1974.9 | 1969.8 | 1965.3 | 1963.1 |
| 35° | 2109.1 | 2109.7 | 2115.8 | 2113.6 | 2103.5 | 2100.2 | 2092.4 | 2091.2 |
| 37.5° | 2246.7 | 2255.6 | 2266.4 | 2268.5 | 2260.1 | 2258.0 | 2249.5 | 2245.1 |
| 40° | 2408.4 | 2420.2 | 2436.4 | 2440.3 | 2431.3 | 2429.7 | 2417.9 | 2411.8 |
| 42.5° | 2580.7 | 2600.8 | 2621.0 | 2624.4 | 2615.4 | 2606.5 | 2595.2 | 2590.7 |
| 45° | 2773.2 | 2797.2 | 2823.5 | 2830.3 | 2816.8 | 2806.3 | 2791.7 | 2791.7 |
| 47.5° | 2989.2 | 3019.3 | 3049.0 | 3067.5 | 3055.1 | 3044.0 | 3026.6 | 3015.4 |
| 50° | 3244.2 | 3285.7 | 3324.2 | 3343.3 | 3323.6 | 3302.4 | 3272.2 | 3262.2 |
| 52.5° | 3564.2 | 3609.0 | 3642.6 | 3632.5 | 3602.3 | 3572.7 | 3539.6 | 3526.3 |
| 55° | 3972.6 | 3987.8 | 3987.8 | 3949.7 | 3889.3 | 3839.5 | 3787.5 | 3770.1 |
| 57.5° | 4483.4 | 4425.2 | 4335.7 | 4222.1 | 4079.5 | 3955.3 | 3871.4 | 3831.6 |
| 60° | 5083.8 | 4803.9 | 4487.9 | 4177.4 | 3922.3 | 3711.9 | 3587.2 | 3530.0 |
| 62.5° | 5483.7 | 4751.9 | 4118.6 | 3620.2 | 3253.2 | 2999.7 | 2827.4 | 2760.3 |
| 65° | 5125.1 | 3963.2 | 3115.0 | 2518.7 | 2118.6 | 1860.6 | 1690.1 | 1627.4 |
| 67.5° | 3753.8 | 2483.4 | 1658.8 | 1188.8 | 871.1 | 694.8 | 624.9 | 595.8 |
| 70° | 1685.0 | 874.4 | 535.9 | 418.5 | 360.9 | 331.2 | 318.3 | 313.9 |
| 72.5° | 507.9 | 367.5 | 310.0 | 279.7 | 256.8 | 242.2 | 231.6 | 230.5 |
| 75° | 306.6 | 255.1 | 226.6 | 208.6 | 194.2 | 182.4 | 176.8 | 175.2 |
| 77.5° | 214.2 | 187.4 | 173.9 | 161.1 | 149.9 | 141.0 | 135.9 | 131.9 |
| 80° | 150.4 | 137.6 | 131.4 | 124.2 | 116.9 | 108.5 | 101.3 | 97.9 |
| 82.5° | 100.7 | 97.9 | 97.9 | 93.4 | 87.3 | 79.4 | 64.9 | 61.5 |
| 85° | 64.9 | 64.4 | 65.4 | 63.8 | 59.3 | 51.0 | 41.9 | 39.8 |
| 87.5° | 30.1 | 30.8 | 34.1 | 33.6 | 32.4 | 26.9 | 21.3 | 20.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)