

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: P192532

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-5MQ-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 16073.1 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - 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

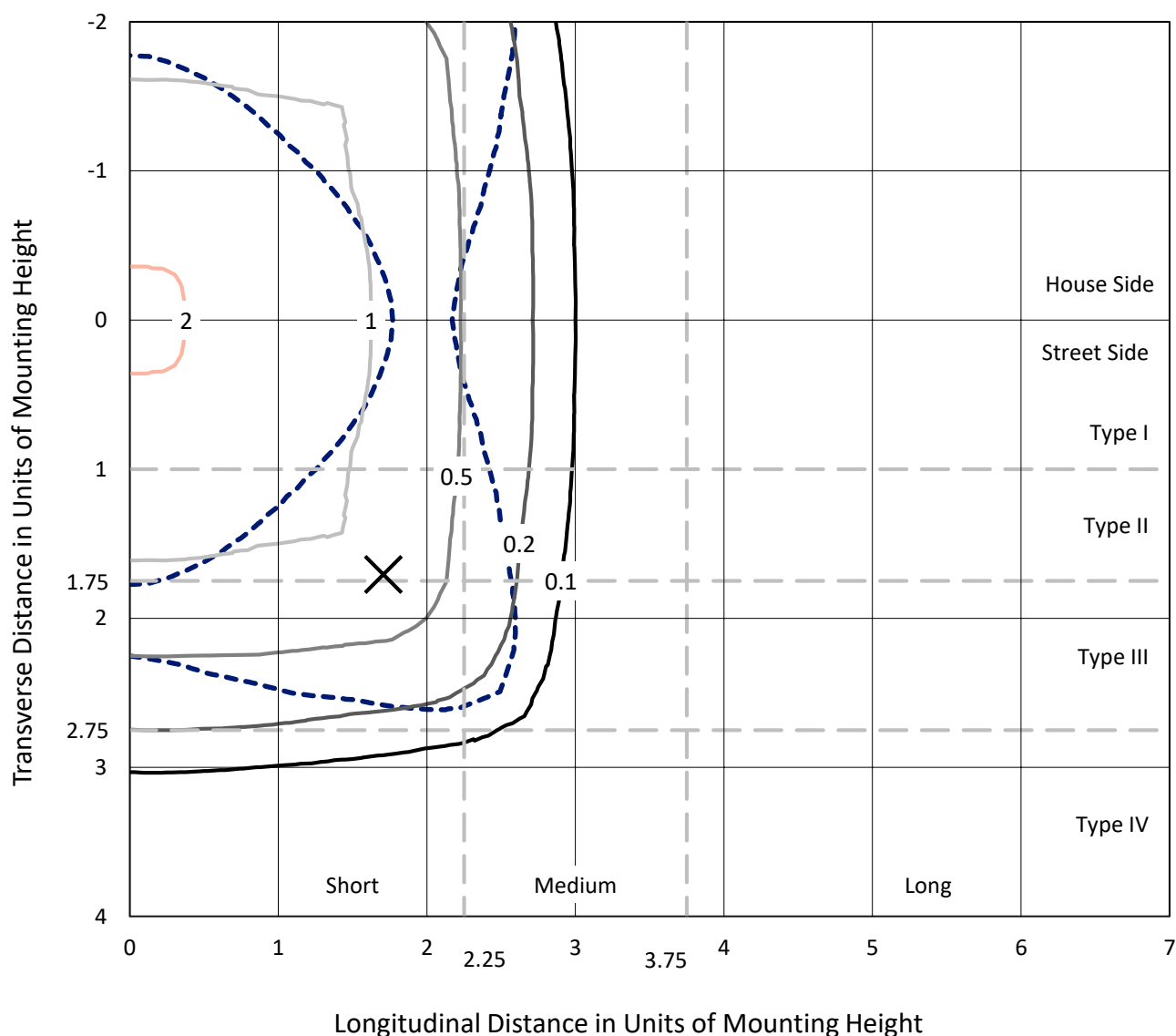


REPORT NUMBER: P192532

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

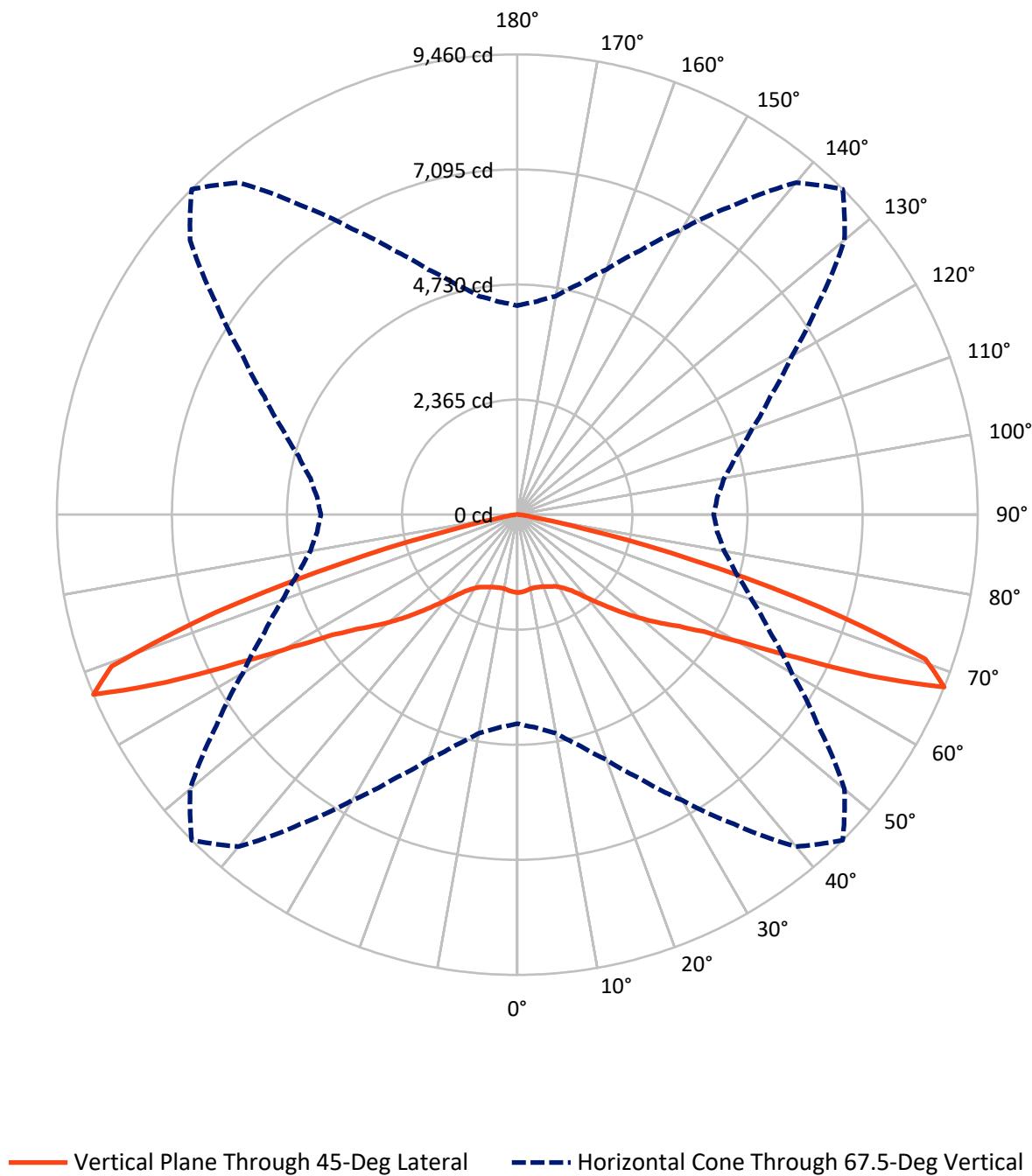


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P192532

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-600

## Luminous Intensity Polar Plot



REPORT NUMBER: P192532

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-600

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8036.6   | 0.0    | 8036.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8036.6   | 0.0    | 8036.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16073.1  | 0.0    | 16073.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 149.9   | 0.9       |
| 10°-20°   | 435.0   | 2.7       |
| 20°-30°   | 739.5   | 4.6       |
| 30°-40°   | 1208.9  | 7.5       |
| 40°-50°   | 2158.2  | 13.4      |
| 50°-60°   | 3638.7  | 22.6      |
| 60°-70°   | 5646.7  | 35.1      |
| 70°-80°   | 1984.0  | 12.3      |
| 80°-90°   | 112.1   | 0.7       |
| 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°    | 16073.1 | 100.0     |
| 0°-180°   | 16073.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192532

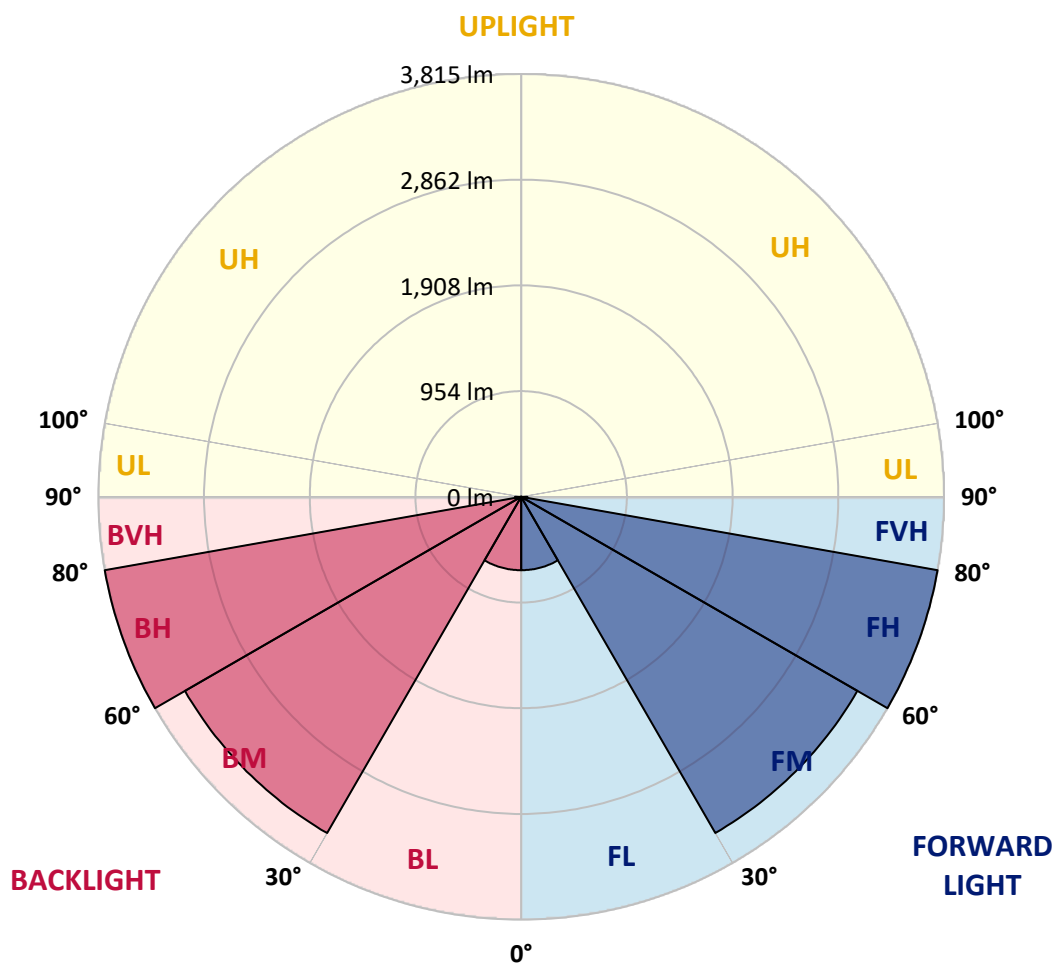
CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 662.2  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 3502.9 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 3815.4 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 56.1   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 662.2  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3502.9 | 21.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3815.4 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 56.1   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P192532

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 |
| 2.5°  | 1595.8 | 1597.4 | 1597.4 | 1597.4 | 1596.6 | 1596.6 | 1595.0 | 1596.6 | 1595.8 | 1593.6 | 1594.3 |
| 5°    | 1582.5 | 1584.0 | 1584.0 | 1583.2 | 1585.5 | 1584.8 | 1582.5 | 1584.0 | 1583.2 | 1581.7 | 1582.5 |
| 7.5°  | 1563.3 | 1565.5 | 1565.5 | 1564.8 | 1567.0 | 1566.2 | 1564.8 | 1565.5 | 1565.5 | 1563.3 | 1563.3 |
| 10°   | 1541.8 | 1543.4 | 1543.4 | 1542.6 | 1546.3 | 1546.3 | 1545.6 | 1547.7 | 1548.5 | 1546.3 | 1544.8 |
| 12.5° | 1521.9 | 1524.1 | 1524.1 | 1527.1 | 1530.8 | 1532.3 | 1535.9 | 1538.9 | 1541.8 | 1541.1 | 1538.2 |
| 15°   | 1510.1 | 1511.6 | 1514.6 | 1518.2 | 1524.1 | 1529.3 | 1535.2 | 1541.8 | 1547.7 | 1549.3 | 1544.8 |
| 17.5° | 1502.8 | 1504.9 | 1509.3 | 1514.6 | 1522.6 | 1531.5 | 1540.4 | 1549.3 | 1557.4 | 1560.3 | 1555.2 |
| 20°   | 1500.4 | 1502.0 | 1506.3 | 1515.3 | 1526.4 | 1539.7 | 1552.2 | 1562.6 | 1573.7 | 1577.3 | 1573.7 |
| 22.5° | 1504.9 | 1507.9 | 1513.0 | 1523.4 | 1538.2 | 1555.2 | 1569.9 | 1584.0 | 1598.0 | 1604.7 | 1599.5 |
| 25°   | 1524.9 | 1527.9 | 1534.5 | 1547.7 | 1564.0 | 1581.7 | 1598.8 | 1615.1 | 1627.6 | 1634.3 | 1630.5 |
| 27.5° | 1561.9 | 1565.5 | 1573.7 | 1587.0 | 1604.7 | 1623.9 | 1642.3 | 1655.8 | 1666.1 | 1668.3 | 1663.8 |
| 30°   | 1617.2 | 1625.4 | 1635.1 | 1649.9 | 1670.5 | 1686.8 | 1705.2 | 1717.0 | 1729.7 | 1729.7 | 1726.0 |
| 32.5° | 1703.8 | 1711.9 | 1722.3 | 1736.2 | 1752.5 | 1770.3 | 1786.5 | 1796.9 | 1810.2 | 1811.0 | 1802.0 |
| 35°   | 1833.2 | 1836.7 | 1845.7 | 1854.5 | 1869.3 | 1884.8 | 1898.9 | 1905.6 | 1916.6 | 1917.4 | 1909.2 |
| 37.5° | 2003.9 | 2004.6 | 2010.5 | 2013.4 | 2026.8 | 2043.8 | 2057.1 | 2061.5 | 2071.9 | 2070.4 | 2062.3 |
| 40°   | 2202.6 | 2206.4 | 2208.5 | 2213.0 | 2227.0 | 2243.3 | 2257.4 | 2259.6 | 2270.7 | 2268.4 | 2258.2 |
| 42.5° | 2432.5 | 2434.1 | 2446.7 | 2453.3 | 2466.5 | 2474.7 | 2492.4 | 2494.6 | 2507.9 | 2502.0 | 2490.2 |
| 45°   | 2690.5 | 2703.8 | 2715.6 | 2729.0 | 2743.1 | 2752.7 | 2766.7 | 2763.7 | 2772.6 | 2763.7 | 2757.0 |
| 47.5° | 2961.8 | 2971.5 | 2998.1 | 3018.8 | 3041.7 | 3049.8 | 3069.7 | 3060.9 | 3069.7 | 3057.2 | 3054.9 |
| 50°   | 3260.4 | 3277.4 | 3300.4 | 3324.0 | 3348.4 | 3361.7 | 3387.6 | 3376.4 | 3388.3 | 3376.4 | 3369.8 |
| 52.5° | 3554.6 | 3559.0 | 3609.3 | 3644.1 | 3678.1 | 3693.6 | 3709.2 | 3703.9 | 3704.7 | 3703.9 | 3697.3 |
| 55°   | 3834.0 | 3844.4 | 3894.6 | 3942.0 | 4001.1 | 4044.7 | 4071.3 | 4068.4 | 4061.7 | 4055.0 | 4043.9 |
| 57.5° | 4148.9 | 4159.3 | 4216.9 | 4275.4 | 4342.5 | 4404.7 | 4458.7 | 4514.0 | 4535.5 | 4541.4 | 4517.0 |
| 60°   | 4574.6 | 4573.9 | 4650.7 | 4721.7 | 4817.8 | 4910.2 | 5028.4 | 5149.0 | 5287.2 | 5351.5 | 5266.6 |
| 62.5° | 5007.8 | 5025.5 | 5136.4 | 5262.0 | 5460.1 | 5653.1 | 5871.1 | 6085.5 | 6304.3 | 6482.5 | 6293.3 |
| 65°   | 4956.0 | 5024.1 | 5188.9 | 5473.5 | 5839.4 | 6274.0 | 6744.0 | 7241.4 | 7691.0 | 7999.9 | 7653.3 |
| 67.5° | 4295.2 | 4392.1 | 4559.8 | 4905.7 | 5363.3 | 5990.1 | 6779.5 | 7763.4 | 8906.9 | 9459.7 | 8774.5 |
| 70°   | 3113.4 | 3222.7 | 3398.6 | 3736.4 | 4189.5 | 4785.3 | 5642.7 | 6823.9 | 8337.7 | 8895.1 | 8140.4 |
| 72.5° | 1549.3 | 1608.4 | 1717.0 | 1932.1 | 2275.1 | 2758.6 | 3536.1 | 4671.5 | 6010.8 | 6522.3 | 5832.7 |
| 75°   | 526.3  | 553.6  | 572.1  | 642.3  | 750.9  | 940.9  | 1327.5 | 2042.3 | 3115.5 | 3734.9 | 3071.2 |
| 77.5° | 303.7  | 304.5  | 317.1  | 329.6  | 348.1  | 368.9  | 420.5  | 552.2  | 955.0  | 1356.4 | 988.2  |
| 80°   | 196.6  | 195.9  | 206.2  | 215.8  | 228.4  | 238.7  | 241.7  | 255.7  | 294.9  | 349.6  | 312.7  |
| 82.5° | 102.0  | 114.6  | 137.4  | 150.0  | 173.7  | 178.1  | 172.2  | 167.0  | 176.7  | 183.3  | 187.7  |
| 85°   | 56.2   | 48.8   | 73.2   | 94.6   | 105.0  | 106.4  | 106.4  | 100.5  | 104.3  | 102.0  | 110.9  |
| 87.5° | 25.9   | 23.6   | 28.9   | 46.6   | 49.5   | 42.2   | 44.4   | 39.3   | 28.1   | 27.4   | 31.0   |
| 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: P192532

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-600

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 | 1601.7 |
| 2.5°  | 1594.3 | 1595.0 | 1595.0 | 1597.4 | 1598.0 | 1599.5 | 1600.9 | 1601.7 |
| 5°    | 1581.7 | 1584.0 | 1582.5 | 1584.8 | 1584.8 | 1586.2 | 1586.2 | 1587.0 |
| 7.5°  | 1563.3 | 1565.5 | 1565.5 | 1565.5 | 1564.8 | 1567.0 | 1567.0 | 1567.0 |
| 10°   | 1544.1 | 1545.6 | 1544.8 | 1543.4 | 1541.8 | 1544.1 | 1543.4 | 1542.6 |
| 12.5° | 1538.2 | 1534.5 | 1531.5 | 1530.0 | 1527.1 | 1527.9 | 1525.6 | 1525.6 |
| 15°   | 1541.8 | 1535.2 | 1530.0 | 1527.9 | 1524.9 | 1523.4 | 1521.9 | 1522.6 |
| 17.5° | 1551.5 | 1543.4 | 1536.7 | 1533.0 | 1529.3 | 1527.1 | 1524.1 | 1524.9 |
| 20°   | 1568.5 | 1558.9 | 1549.3 | 1541.8 | 1535.2 | 1531.5 | 1529.3 | 1528.5 |
| 22.5° | 1593.6 | 1579.6 | 1565.5 | 1554.4 | 1545.6 | 1540.4 | 1538.2 | 1536.7 |
| 25°   | 1622.5 | 1606.8 | 1590.7 | 1578.1 | 1569.2 | 1562.6 | 1558.1 | 1558.1 |
| 27.5° | 1658.7 | 1646.1 | 1631.4 | 1616.5 | 1608.4 | 1601.7 | 1598.8 | 1597.4 |
| 30°   | 1719.3 | 1707.5 | 1695.6 | 1681.6 | 1671.2 | 1664.6 | 1659.4 | 1655.0 |
| 32.5° | 1796.9 | 1787.3 | 1777.6 | 1767.4 | 1757.8 | 1748.8 | 1740.7 | 1737.0 |
| 35°   | 1906.2 | 1898.9 | 1892.3 | 1880.5 | 1876.7 | 1871.5 | 1867.1 | 1863.4 |
| 37.5° | 2057.1 | 2054.1 | 2054.1 | 2041.5 | 2038.6 | 2036.4 | 2031.9 | 2032.7 |
| 40°   | 2255.2 | 2258.2 | 2254.4 | 2249.9 | 2247.8 | 2241.9 | 2241.9 | 2247.0 |
| 42.5° | 2489.5 | 2491.6 | 2499.9 | 2492.4 | 2500.6 | 2493.2 | 2488.7 | 2492.4 |
| 45°   | 2761.5 | 2769.6 | 2785.9 | 2778.5 | 2783.7 | 2771.2 | 2755.6 | 2756.3 |
| 47.5° | 3066.8 | 3074.1 | 3080.8 | 3075.6 | 3076.4 | 3055.7 | 3035.0 | 3029.8 |
| 50°   | 3383.9 | 3386.8 | 3390.6 | 3383.1 | 3384.7 | 3361.7 | 3338.1 | 3338.8 |
| 52.5° | 3697.3 | 3711.3 | 3726.1 | 3706.2 | 3701.7 | 3675.8 | 3642.6 | 3629.3 |
| 55°   | 4055.8 | 4075.7 | 4058.8 | 4024.0 | 3989.3 | 3954.5 | 3910.9 | 3903.5 |
| 57.5° | 4497.7 | 4463.8 | 4410.6 | 4344.8 | 4296.7 | 4247.9 | 4203.6 | 4185.0 |
| 60°   | 5112.8 | 4984.9 | 4888.8 | 4791.2 | 4729.9 | 4670.0 | 4611.7 | 4602.8 |
| 62.5° | 5982.1 | 5761.0 | 5569.6 | 5367.8 | 5202.9 | 5074.3 | 4971.7 | 4942.8 |
| 65°   | 7071.5 | 6548.9 | 6095.8 | 5673.1 | 5305.6 | 5028.4 | 4854.1 | 4777.2 |
| 67.5° | 7540.2 | 6508.2 | 5731.4 | 5131.3 | 4650.7 | 4315.2 | 4126.7 | 4032.9 |
| 70°   | 6625.8 | 5397.3 | 4552.5 | 3951.6 | 3514.0 | 3156.2 | 2985.5 | 2884.9 |
| 72.5° | 4558.4 | 3433.4 | 2714.9 | 2216.0 | 1866.3 | 1567.0 | 1448.8 | 1439.9 |
| 75°   | 2046.8 | 1355.6 | 934.2  | 719.9  | 606.1  | 527.0  | 502.6  | 484.1  |
| 77.5° | 572.8  | 423.5  | 377.7  | 353.4  | 329.6  | 302.3  | 291.9  | 294.2  |
| 80°   | 278.6  | 263.1  | 252.8  | 237.3  | 215.8  | 193.0  | 182.6  | 187.1  |
| 82.5° | 184.7  | 182.6  | 189.2  | 178.1  | 147.1  | 124.9  | 105.0  | 96.0   |
| 85°   | 112.3  | 113.8  | 116.1  | 116.8  | 99.1   | 69.5   | 47.3   | 53.2   |
| 87.5° | 44.4   | 51.1   | 55.4   | 57.7   | 54.0   | 33.3   | 26.7   | 27.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)