

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: P200278

Luminaire Tested: **GAW-AF-02-LED-E1-SL2-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-02-LED-E1-SL2-7050-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 800mA 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: 9832 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 86  
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

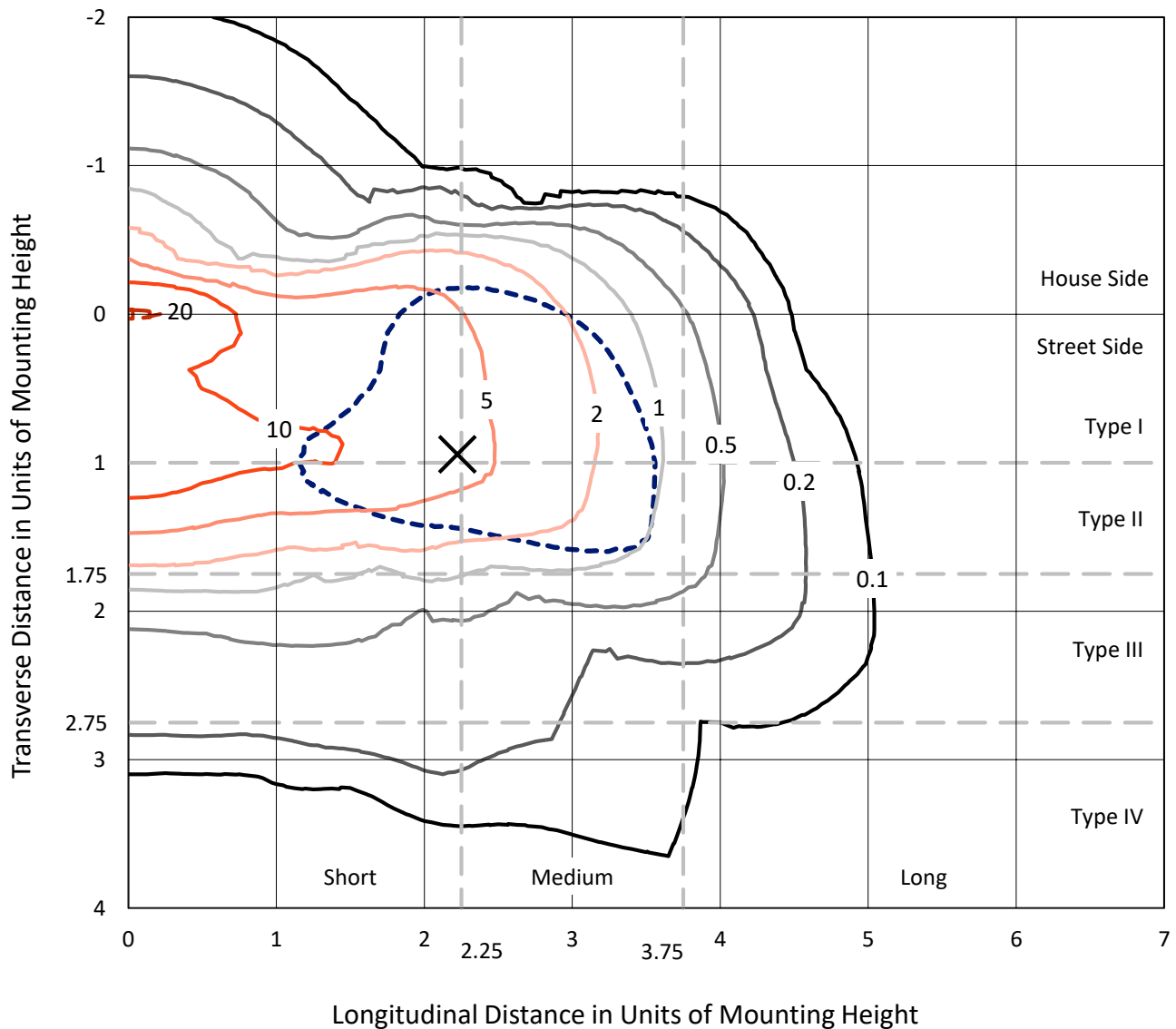


REPORT NUMBER: P200278

CATALOG NUMBER: GAW-AF-02-LED-E1-SL2-7050-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

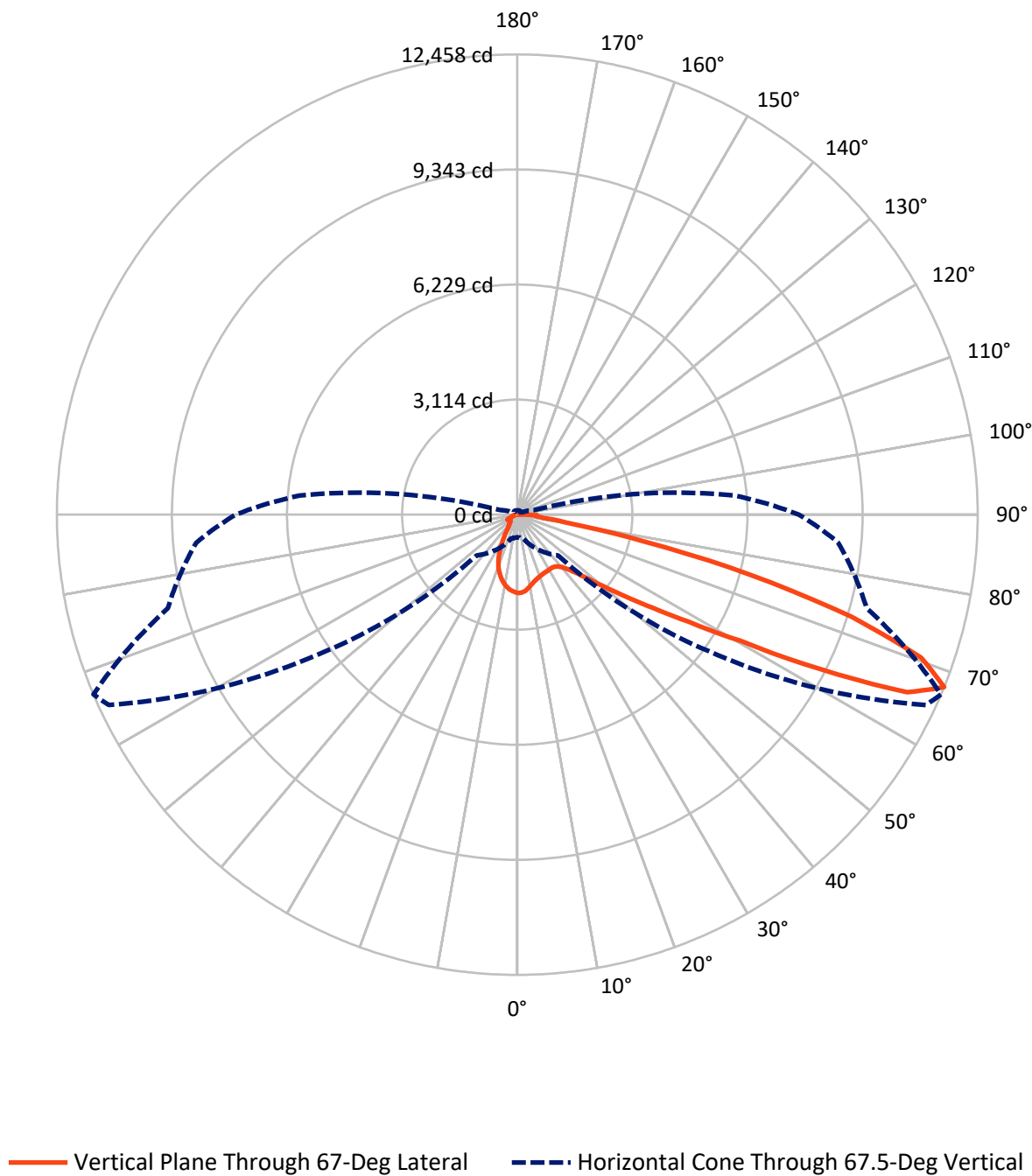


Based on 10 foot mounting height. Maximum calculated value = 21.2 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P200278

CATALOG NUMBER: GAW-AF-02-LED-E1-SL2-7050-800

## Luminous Intensity Polar Plot



REPORT NUMBER: P200278

CATALOG NUMBER: GAW-AF-02-LED-E1-SL2-7050-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1629.1   | 0.0    | 1629.1 |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 8202.9   | 0.0    | 8202.9 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 9832.0   | 0.0    | 9832.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.9  | 1.8       |
| 10°-20°   | 418.6  | 4.3       |
| 20°-30°   | 567.5  | 5.8       |
| 30°-40°   | 806.7  | 8.2       |
| 40°-50°   | 1349.7 | 13.7      |
| 50°-60°   | 2135.2 | 21.7      |
| 60°-70°   | 2720.0 | 27.7      |
| 70°-80°   | 1424.8 | 14.5      |
| 80°-90°   | 228.5  | 2.3       |
| 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°    | 9832.0 | 100.0     |
| 0°-180°   | 9832.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P200278

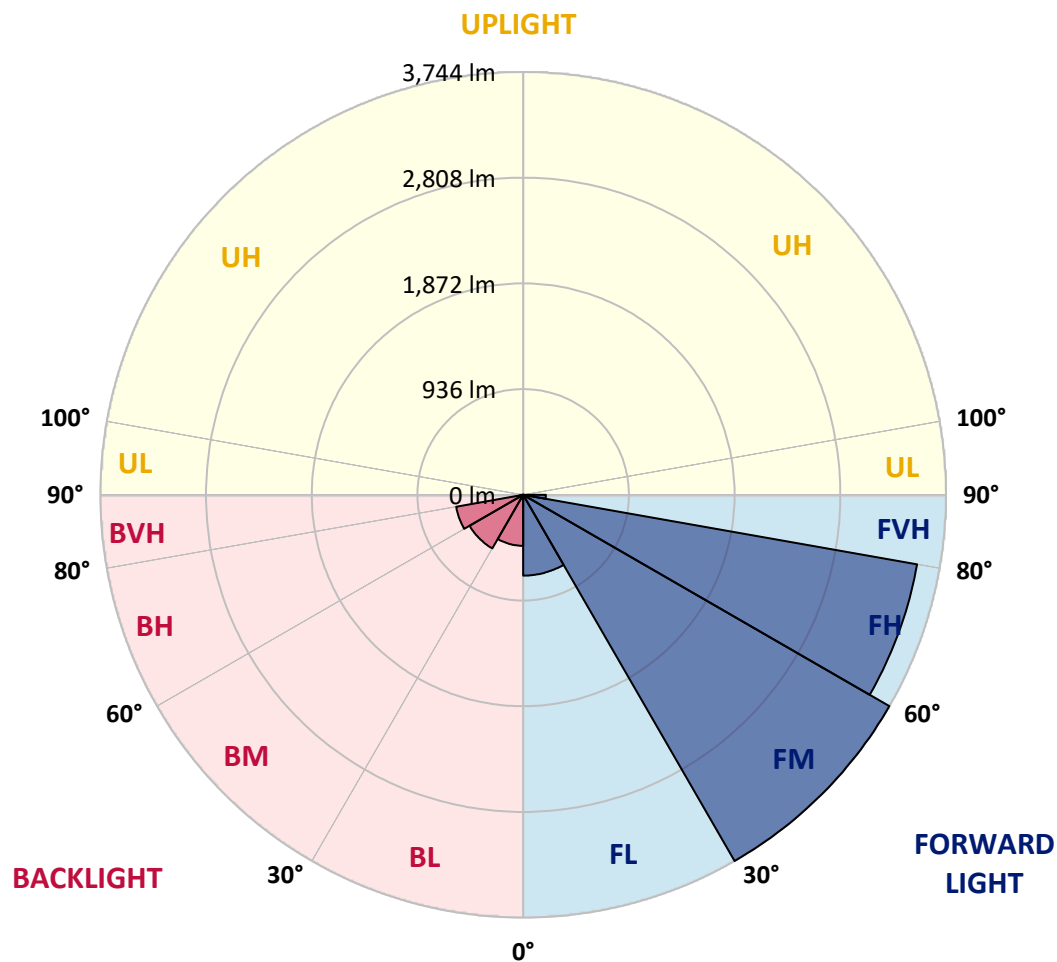
CATALOG NUMBER: GAW-AF-02-LED-E1-SL2-7050-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 715.5  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 3744.2 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 3542.3 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 200.9  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 451.5  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 547.4  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 602.5  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 27.6   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P200278

CATALOG NUMBER: GAW-AF-02-LED-E1-SL2-7050-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 67°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7  | 2120.7  | 2120.7  | 2120.7 |
| 2.5°  | 2033.5 | 2036.9 | 2047.5 | 2054.3 | 2084.9 | 2098.0 | 2107.2 | 2116.4  | 2117.8  | 2122.2  | 2117.8 |
| 5°    | 1820.1 | 1827.4 | 1847.3 | 1869.6 | 1928.7 | 1975.3 | 2024.3 | 2075.2  | 2084.4  | 2117.3  | 2126.6 |
| 7.5°  | 1654.8 | 1652.9 | 1669.3 | 1696.0 | 1756.6 | 1821.1 | 1906.9 | 2008.3  | 2028.1  | 2102.3  | 2138.2 |
| 10°   | 1534.1 | 1532.6 | 1550.1 | 1577.7 | 1635.4 | 1696.5 | 1793.5 | 1932.1  | 1960.3  | 2078.6  | 2149.3 |
| 12.5° | 1444.9 | 1445.3 | 1462.8 | 1493.3 | 1552.0 | 1613.6 | 1712.0 | 1858.4  | 1894.3  | 2050.9  | 2161.0 |
| 15°   | 1385.7 | 1389.6 | 1403.6 | 1436.1 | 1493.3 | 1554.9 | 1651.4 | 1803.2  | 1843.4  | 2029.1  | 2174.1 |
| 17.5° | 1365.8 | 1372.1 | 1377.0 | 1400.7 | 1449.7 | 1511.3 | 1605.8 | 1762.4  | 1805.1  | 2014.1  | 2185.7 |
| 20°   | 1384.2 | 1391.5 | 1382.3 | 1390.6 | 1421.6 | 1475.9 | 1569.9 | 1730.4  | 1774.1  | 1997.1  | 2187.2 |
| 22.5° | 1463.3 | 1470.1 | 1442.9 | 1419.2 | 1417.2 | 1450.2 | 1540.4 | 1705.2  | 1750.3  | 1984.5  | 2187.6 |
| 25°   | 1602.4 | 1606.8 | 1561.2 | 1505.9 | 1452.1 | 1441.0 | 1519.5 | 1687.8  | 1735.8  | 1973.3  | 2178.4 |
| 27.5° | 1773.1 | 1776.5 | 1724.1 | 1642.7 | 1534.6 | 1462.8 | 1512.3 | 1677.6  | 1727.5  | 1963.6  | 2162.9 |
| 30°   | 1980.6 | 1996.6 | 1926.3 | 1823.5 | 1665.9 | 1527.3 | 1526.8 | 1672.3  | 1718.3  | 1947.2  | 2132.4 |
| 32.5° | 2193.0 | 2199.8 | 2151.3 | 2047.0 | 1842.9 | 1640.7 | 1567.5 | 1676.1  | 1715.9  | 1927.3  | 2093.6 |
| 35°   | 2408.3 | 2417.0 | 2385.5 | 2301.6 | 2084.9 | 1807.0 | 1647.0 | 1698.9  | 1730.9  | 1920.5  | 2066.4 |
| 37.5° | 2687.0 | 2698.7 | 2655.0 | 2558.1 | 2379.2 | 2032.5 | 1779.4 | 1756.1  | 1777.0  | 1939.9  | 2058.2 |
| 40°   | 3127.8 | 3122.4 | 2994.9 | 2850.4 | 2701.1 | 2321.0 | 1968.5 | 1853.1  | 1865.2  | 2002.4  | 2083.4 |
| 42.5° | 3640.7 | 3627.7 | 3408.0 | 3181.1 | 3055.0 | 2670.1 | 2218.7 | 2021.3  | 2018.9  | 2125.6  | 2172.1 |
| 45°   | 4050.0 | 4039.3 | 3841.5 | 3561.7 | 3460.9 | 3067.7 | 2542.1 | 2272.0  | 2254.1  | 2321.0  | 2336.0 |
| 47.5° | 4271.5 | 4272.0 | 4158.1 | 3929.7 | 3927.3 | 3572.9 | 2957.6 | 2634.7  | 2603.6  | 2635.2  | 2619.2 |
| 50°   | 4194.0 | 4204.1 | 4192.0 | 4119.3 | 4353.0 | 4235.2 | 3500.1 | 3140.4  | 3077.8  | 3108.9  | 3047.3 |
| 52.5° | 3818.7 | 3831.8 | 3903.5 | 4015.1 | 4531.9 | 5035.7 | 4297.2 | 3768.7  | 3696.0  | 3684.9  | 3616.5 |
| 55°   | 3153.5 | 3169.5 | 3315.9 | 3618.9 | 4383.1 | 5573.4 | 5554.9 | 4569.7  | 4453.8  | 4348.6  | 4319.5 |
| 57.5° | 2173.6 | 2200.3 | 2435.9 | 2885.8 | 3901.6 | 5735.8 | 7052.6 | 5711.5  | 5475.9  | 5108.4  | 5115.2 |
| 60°   | 1225.2 | 1256.2 | 1534.1 | 1942.8 | 2930.0 | 5559.3 | 8192.0 | 7441.0  | 6943.6  | 5998.1  | 6048.5 |
| 62.5° | 779.2  | 812.6  | 1023.5 | 1349.8 | 1758.1 | 4609.0 | 8659.0 | 9845.4  | 9213.6  | 7094.8  | 7144.3 |
| 65°   | 630.8  | 645.3  | 744.7  | 1114.2 | 1276.6 | 2776.7 | 8304.5 | 11826.0 | 11590.4 | 8486.8  | 8256.0 |
| 67.5° | 615.8  | 620.6  | 672.0  | 935.3  | 1224.2 | 1560.7 | 6624.0 | 12196.4 | 12457.8 | 9786.7  | 8719.1 |
| 70°   | 608.5  | 625.5  | 757.3  | 892.6  | 1172.4 | 1316.4 | 3980.6 | 11181.1 | 11593.8 | 10126.6 | 8102.8 |
| 72.5° | 295.3  | 294.3  | 381.1  | 807.3  | 1320.7 | 1365.3 | 2045.1 | 9046.8  | 9460.9  | 8773.4  | 6658.5 |
| 75°   | 238.1  | 217.7  | 208.0  | 295.8  | 1269.8 | 1409.9 | 1303.3 | 6225.0  | 6524.6  | 5882.2  | 4093.1 |
| 77.5° | 225.9  | 201.7  | 184.7  | 185.2  | 536.7  | 1495.3 | 1104.0 | 3445.4  | 3532.6  | 2657.0  | 1121.5 |
| 80°   | 187.2  | 164.8  | 152.7  | 172.1  | 259.9  | 1424.0 | 1193.7 | 1559.3  | 1430.8  | 652.6   | 373.3  |
| 82.5° | 129.9  | 118.3  | 114.9  | 144.5  | 208.0  | 1014.8 | 1388.1 | 837.8   | 702.5   | 326.8   | 230.3  |
| 85°   | 82.9   | 70.8   | 78.5   | 105.2  | 161.9  | 468.4  | 1429.8 | 653.1   | 519.3   | 207.5   | 129.9  |
| 87.5° | 38.3   | 31.0   | 38.8   | 58.2   | 105.7  | 161.5  | 1360.5 | 733.6   | 534.8   | 109.6   | 81.9   |
| 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: P200278

CATALOG NUMBER: GAW-AF-02-LED-E1-SL2-7050-800

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 | 2120.7 |
| 2.5°  | 2121.7 | 2112.5 | 2105.2 | 2091.6 | 2076.6 | 2062.1 | 2049.0 | 2032.5 | 2027.6 | 2023.3 | 2030.1 |
| 5°    | 2128.5 | 2119.3 | 2092.6 | 2050.9 | 2004.9 | 1961.7 | 1918.6 | 1881.7 | 1858.9 | 1846.3 | 1853.6 |
| 7.5°  | 2138.7 | 2125.6 | 2070.3 | 1993.7 | 1910.8 | 1835.2 | 1757.1 | 1694.6 | 1648.5 | 1626.7 | 1633.0 |
| 10°   | 2147.9 | 2122.7 | 2032.5 | 1917.6 | 1796.4 | 1683.9 | 1560.7 | 1458.9 | 1383.3 | 1343.5 | 1353.2 |
| 12.5° | 2151.8 | 2111.5 | 1979.6 | 1822.6 | 1656.3 | 1491.4 | 1310.1 | 1157.8 | 1049.2 | 1009.5 | 1001.2 |
| 15°   | 2155.6 | 2098.9 | 1921.5 | 1714.4 | 1487.0 | 1253.8 | 999.8  | 817.5  | 727.3  | 707.4  | 703.0  |
| 17.5° | 2156.6 | 2077.1 | 1855.5 | 1597.1 | 1288.7 | 971.2  | 683.6  | 567.8  | 568.2  | 600.2  | 604.1  |
| 20°   | 2146.4 | 2044.6 | 1775.5 | 1451.2 | 1051.2 | 671.5  | 469.3  | 449.5  | 522.7  | 602.7  | 612.4  |
| 22.5° | 2123.2 | 2001.5 | 1684.9 | 1281.0 | 779.2  | 442.2  | 363.2  | 385.0  | 479.5  | 577.5  | 588.6  |
| 25°   | 2093.6 | 1949.1 | 1577.7 | 1083.6 | 515.9  | 316.1  | 304.5  | 331.2  | 395.2  | 460.6  | 466.9  |
| 27.5° | 2053.3 | 1887.0 | 1457.5 | 857.7  | 335.0  | 260.4  | 268.1  | 286.1  | 312.2  | 341.3  | 344.2  |
| 30°   | 2001.5 | 1812.9 | 1329.0 | 625.5  | 253.1  | 234.2  | 245.3  | 255.0  | 266.2  | 282.7  | 284.1  |
| 32.5° | 1941.8 | 1741.6 | 1197.1 | 432.0  | 224.5  | 220.6  | 229.3  | 234.2  | 242.9  | 253.1  | 254.1  |
| 35°   | 1891.9 | 1673.7 | 1060.4 | 305.5  | 212.4  | 210.4  | 216.2  | 218.2  | 226.4  | 237.6  | 238.5  |
| 37.5° | 1863.3 | 1618.4 | 919.3  | 246.3  | 204.1  | 201.2  | 204.6  | 204.6  | 216.2  | 232.7  | 235.2  |
| 40°   | 1865.2 | 1587.9 | 778.2  | 222.5  | 197.3  | 193.5  | 193.9  | 193.9  | 209.0  | 226.9  | 228.4  |
| 42.5° | 1918.1 | 1595.6 | 653.1  | 213.3  | 192.0  | 187.6  | 185.2  | 186.7  | 199.3  | 210.9  | 211.9  |
| 45°   | 2042.2 | 1650.4 | 535.8  | 207.5  | 186.7  | 185.2  | 179.9  | 179.4  | 184.2  | 189.6  | 189.6  |
| 47.5° | 2245.8 | 1758.6 | 456.2  | 203.6  | 182.3  | 181.8  | 175.5  | 169.2  | 168.7  | 170.7  | 170.7  |
| 50°   | 2577.0 | 1944.7 | 402.9  | 199.3  | 179.4  | 175.5  | 168.2  | 158.5  | 155.2  | 156.6  | 156.6  |
| 52.5° | 3073.5 | 2276.9 | 382.5  | 193.5  | 173.1  | 166.8  | 158.5  | 148.8  | 145.9  | 146.4  | 146.4  |
| 55°   | 3724.6 | 2786.9 | 379.6  | 186.7  | 166.3  | 156.1  | 149.3  | 142.1  | 138.7  | 139.6  | 139.6  |
| 57.5° | 4520.3 | 3492.4 | 431.5  | 176.0  | 157.1  | 145.5  | 141.6  | 136.7  | 134.3  | 135.8  | 135.3  |
| 60°   | 5487.5 | 4415.5 | 640.0  | 164.8  | 147.9  | 135.8  | 135.8  | 131.9  | 129.9  | 131.4  | 130.9  |
| 62.5° | 6601.7 | 5475.9 | 899.9  | 156.6  | 138.2  | 128.0  | 129.9  | 128.0  | 126.1  | 127.0  | 126.5  |
| 65°   | 7589.9 | 6166.8 | 842.7  | 150.3  | 128.5  | 120.7  | 124.1  | 123.2  | 121.7  | 122.7  | 122.2  |
| 67.5° | 7618.5 | 5910.8 | 473.2  | 143.5  | 119.3  | 113.5  | 118.3  | 117.8  | 116.8  | 117.8  | 117.3  |
| 70°   | 6799.1 | 4991.1 | 266.7  | 130.9  | 109.6  | 104.7  | 111.5  | 111.0  | 110.1  | 112.0  | 111.5  |
| 72.5° | 5447.3 | 3621.8 | 194.9  | 115.4  | 99.9   | 95.5   | 103.3  | 102.8  | 102.8  | 105.7  | 104.2  |
| 75°   | 3134.6 | 1863.8 | 155.6  | 98.9   | 89.7   | 86.3   | 93.1   | 93.6   | 94.5   | 98.4   | 95.5   |
| 77.5° | 893.6  | 580.9  | 127.0  | 83.9   | 77.1   | 75.6   | 82.4   | 83.4   | 83.9   | 88.2   | 84.4   |
| 80°   | 332.1  | 267.6  | 104.7  | 70.3   | 63.0   | 63.5   | 69.8   | 71.3   | 71.8   | 76.1   | 71.3   |
| 82.5° | 211.9  | 176.5  | 84.8   | 54.3   | 49.5   | 49.0   | 56.7   | 58.7   | 58.7   | 59.2   | 56.2   |
| 85°   | 123.6  | 105.7  | 64.0   | 39.3   | 34.9   | 33.5   | 42.2   | 45.6   | 44.1   | 43.2   | 41.2   |
| 87.5° | 82.9   | 72.7   | 39.3   | 21.8   | 18.9   | 17.9   | 24.7   | 27.2   | 26.2   | 24.7   | 23.3   |
| 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)