

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: P199929

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P199929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-AFL-7030-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5520.9 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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



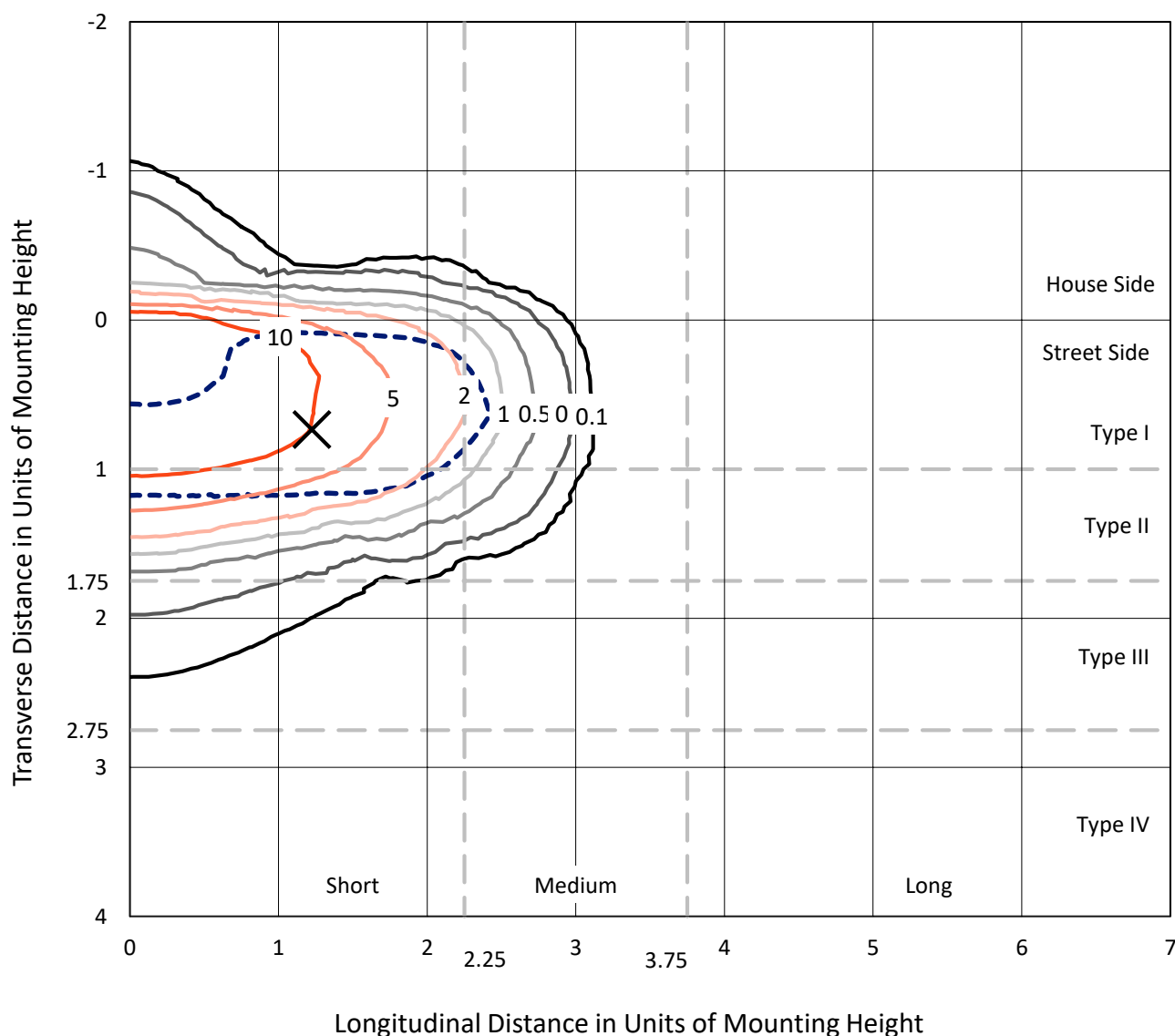
REPORT NUMBER: P199929

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

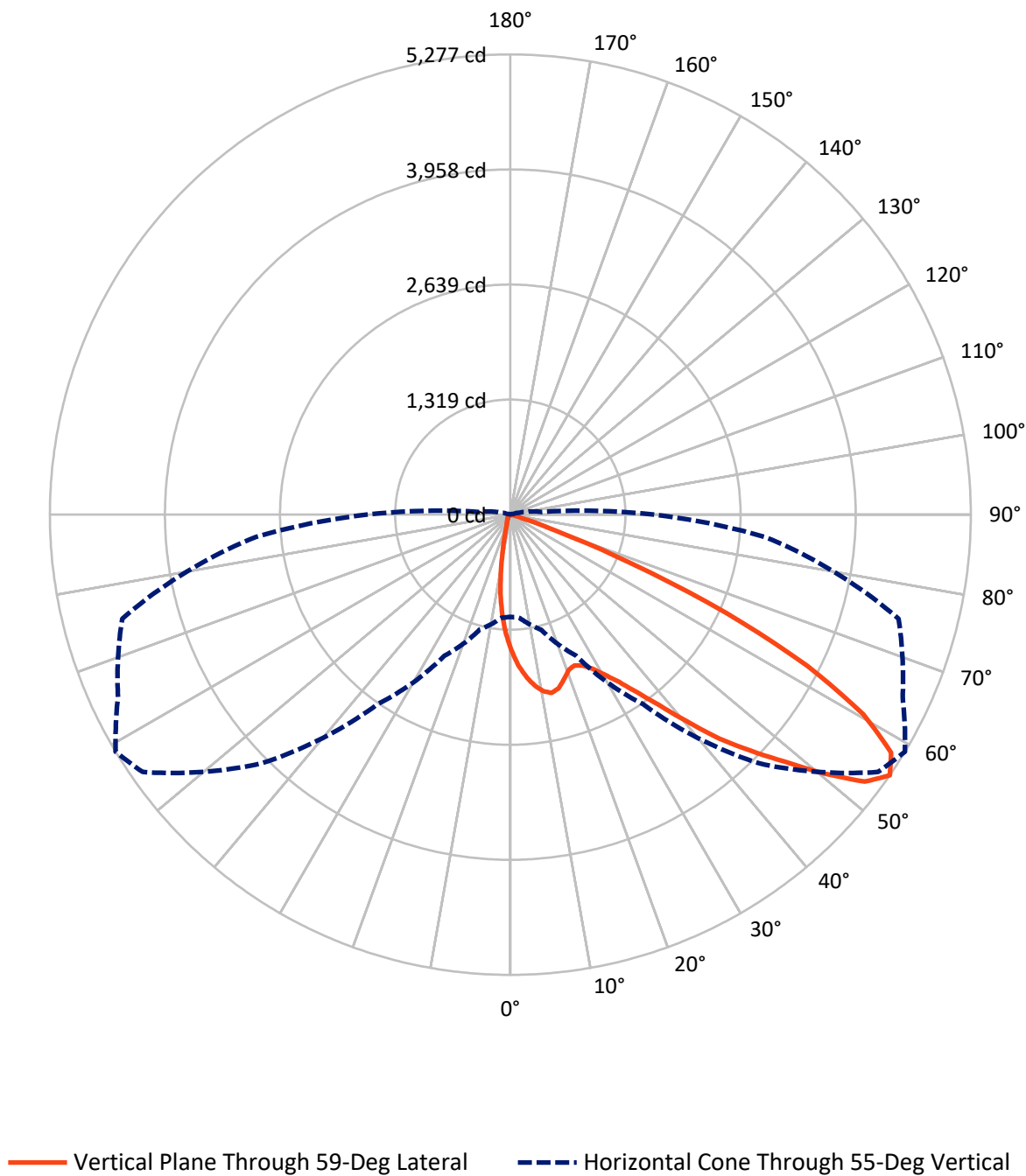


Based on 10 foot mounting height. Maximum calculated value = 19.3 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P199929

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7030-1200-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P199929

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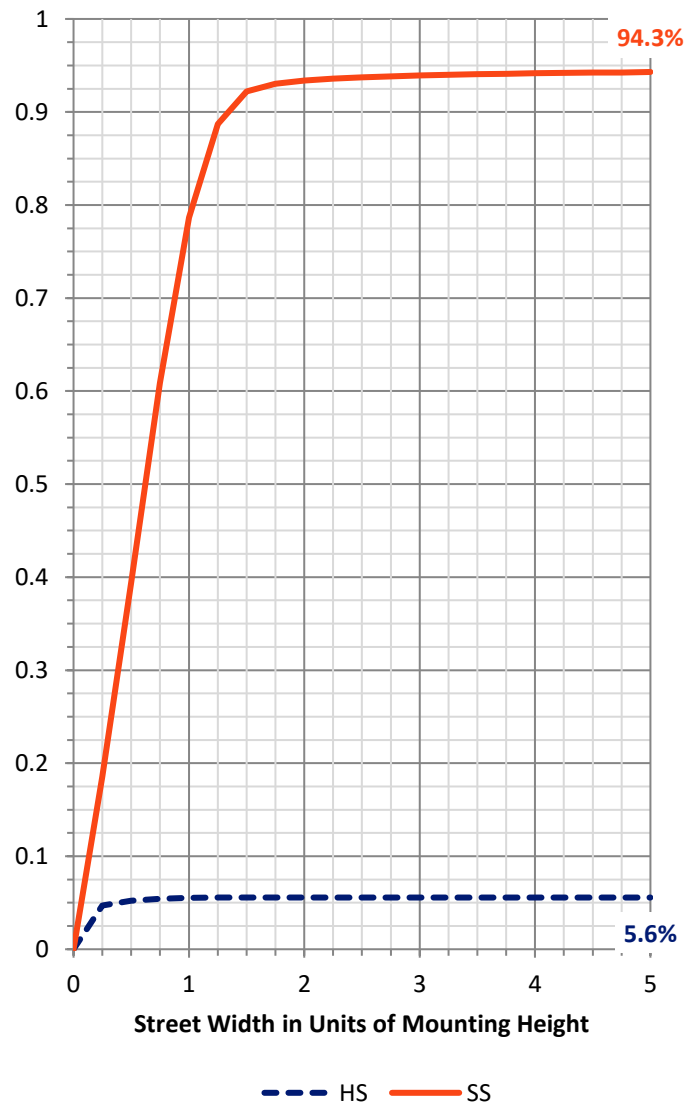
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 308.4    | 0.0    | 308.4  |
|                    | % Fixture | 5.6      | 0.0    | 5.6    |
| <b>Street Side</b> | Lumens    | 5212.5   | 0.0    | 5212.5 |
|                    | % Fixture | 94.4     | 0.0    | 94.4   |
| <b>Total</b>       | Lumens    | 5520.9   | 0.0    | 5520.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.2  | 2.4       |
| 10°-20°   | 311.7  | 5.6       |
| 20°-30°   | 530.3  | 9.6       |
| 30°-40°   | 912.1  | 16.5      |
| 40°-50°   | 1408.1 | 25.5      |
| 50°-60°   | 1415.6 | 25.6      |
| 60°-70°   | 725.9  | 13.1      |
| 70°-80°   | 78.7   | 1.4       |
| 80°-90°   | 8.2    | 0.1       |
| 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°    | 5520.9 | 100.0     |
| 0°-180°   | 5520.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P199929

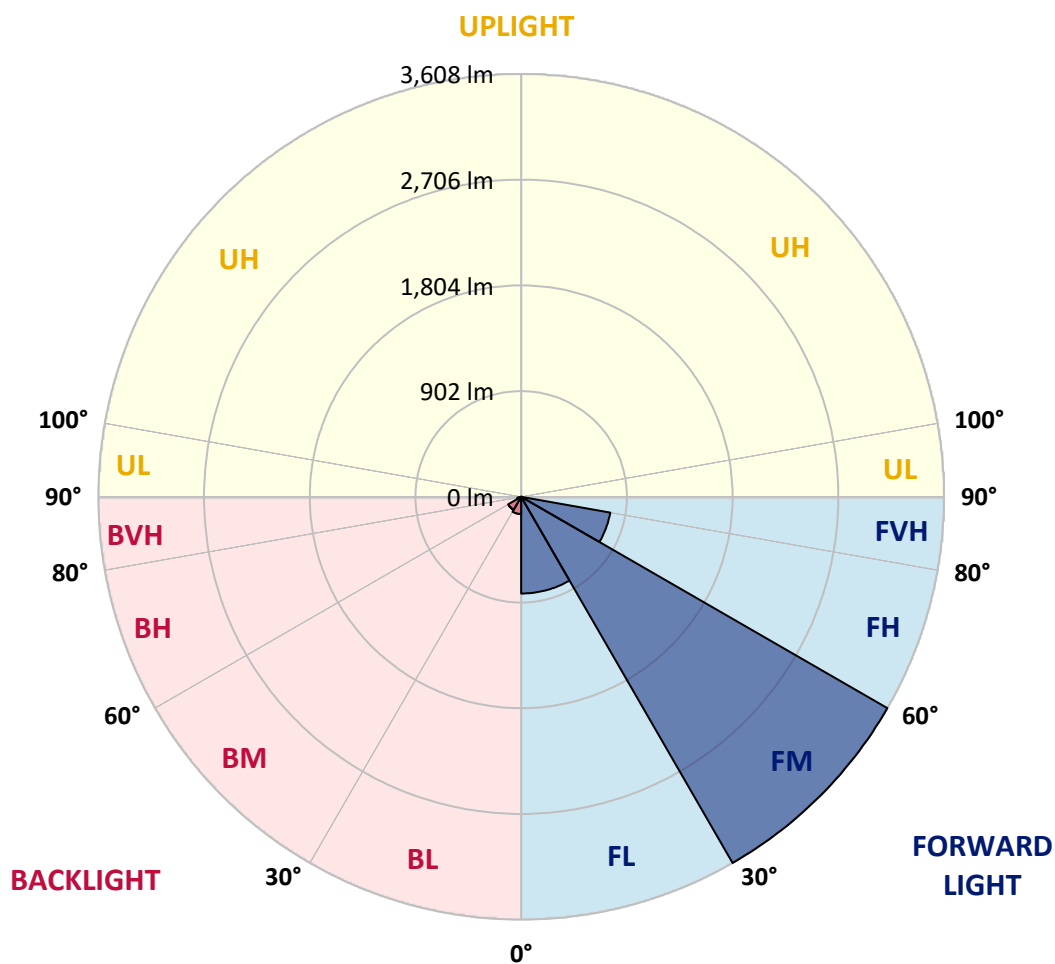
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 825.0  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 3607.9 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 771.6  | 14.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.1    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 147.2  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 128.0  | 2.3       | B0/220                  |      |         |
| BH   | (60°-80°)   | 33.0   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.2    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P199929

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7030-1200-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 |
| 2.5°  | 1838.9 | 1819.2 | 1813.4 | 1809.6 | 1791.7 | 1769.1 | 1738.6 | 1724.2 | 1694.8 | 1647.6 | 1589.6 |
| 5°    | 2007.3 | 2003.7 | 1990.7 | 1983.5 | 1964.3 | 1932.4 | 1883.5 | 1860.0 | 1813.4 | 1734.0 | 1630.0 |
| 7.5°  | 1933.7 | 1956.2 | 1974.1 | 2004.1 | 2041.8 | 2040.5 | 1999.5 | 1975.1 | 1923.0 | 1818.0 | 1675.0 |
| 10°   | 1649.3 | 1667.6 | 1696.8 | 1764.9 | 1903.8 | 2026.2 | 2074.4 | 2056.8 | 2015.2 | 1895.2 | 1718.3 |
| 12.5° | 1593.5 | 1591.6 | 1596.9 | 1616.7 | 1689.3 | 1864.0 | 2061.7 | 2097.2 | 2088.7 | 1965.9 | 1759.4 |
| 15°   | 1623.1 | 1620.9 | 1620.2 | 1627.1 | 1644.7 | 1718.3 | 1966.2 | 2068.3 | 2133.8 | 2031.4 | 1794.2 |
| 17.5° | 1706.3 | 1696.5 | 1691.3 | 1685.8 | 1680.5 | 1698.8 | 1851.6 | 1987.1 | 2140.6 | 2088.7 | 1823.2 |
| 20°   | 1848.6 | 1832.4 | 1813.1 | 1781.8 | 1752.5 | 1743.4 | 1803.4 | 1903.8 | 2116.2 | 2132.4 | 1842.1 |
| 22.5° | 2027.6 | 2006.6 | 1973.4 | 1916.4 | 1856.8 | 1822.2 | 1827.2 | 1877.3 | 2079.6 | 2179.9 | 1851.0 |
| 25°   | 2228.6 | 2201.8 | 2157.6 | 2078.3 | 1990.7 | 1929.4 | 1897.5 | 1915.1 | 2063.1 | 2235.7 | 1861.0 |
| 27.5° | 2443.9 | 2414.2 | 2356.2 | 2248.4 | 2149.0 | 2066.3 | 2001.1 | 1998.8 | 2091.3 | 2308.6 | 1877.3 |
| 30°   | 2657.3 | 2652.7 | 2577.1 | 2463.1 | 2331.5 | 2230.8 | 2137.0 | 2124.9 | 2170.6 | 2409.7 | 1909.6 |
| 32.5° | 2942.1 | 2907.8 | 2815.3 | 2698.0 | 2546.2 | 2425.3 | 2314.2 | 2286.2 | 2292.0 | 2527.2 | 1959.4 |
| 35°   | 3301.0 | 3263.6 | 3133.3 | 2971.5 | 2801.6 | 2659.0 | 2536.1 | 2498.0 | 2483.7 | 2719.9 | 2043.4 |
| 37.5° | 3533.1 | 3532.5 | 3450.6 | 3285.8 | 3103.6 | 2946.2 | 2812.7 | 2768.1 | 2739.0 | 2952.5 | 2173.8 |
| 40°   | 3539.2 | 3554.5 | 3565.3 | 3563.7 | 3434.0 | 3289.0 | 3170.4 | 3115.4 | 3047.9 | 3263.2 | 2342.2 |
| 42.5° | 3349.4 | 3388.7 | 3483.5 | 3644.5 | 3721.4 | 3663.7 | 3563.7 | 3509.6 | 3409.2 | 3595.9 | 2547.5 |
| 45°   | 3092.6 | 3119.9 | 3285.8 | 3582.3 | 3877.1 | 4035.2 | 3958.9 | 3862.1 | 3729.9 | 3942.9 | 2731.6 |
| 47.5° | 2977.6 | 2982.4 | 3089.7 | 3415.1 | 3888.9 | 4339.4 | 4385.6 | 4228.4 | 4021.2 | 4222.5 | 2875.6 |
| 50°   | 2633.8 | 2642.7 | 2790.6 | 3125.5 | 3751.3 | 4483.1 | 4814.5 | 4665.3 | 4338.8 | 4437.8 | 2928.0 |
| 52.5° | 1985.1 | 1997.5 | 2185.1 | 2649.4 | 3373.4 | 4421.8 | 5121.4 | 5085.3 | 4686.7 | 4543.1 | 2931.0 |
| 55°   | 1171.3 | 1187.5 | 1366.8 | 1783.4 | 2653.4 | 4032.2 | 5144.2 | 5277.1 | 4961.4 | 4605.3 | 2926.4 |
| 57.5° | 547.1  | 558.5  | 661.0  | 918.8  | 1650.3 | 3186.8 | 4800.8 | 5145.4 | 5112.9 | 4638.2 | 2958.6 |
| 60°   | 290.6  | 293.9  | 318.6  | 397.8  | 745.8  | 2020.6 | 4130.5 | 4646.4 | 4974.8 | 4683.8 | 2998.1 |
| 62.5° | 222.3  | 223.2  | 221.9  | 231.3  | 313.5  | 896.9  | 3122.2 | 3819.8 | 4418.7 | 4649.6 | 2954.5 |
| 65°   | 192.6  | 194.2  | 185.0  | 182.8  | 201.0  | 319.9  | 1854.7 | 2722.7 | 3472.2 | 4187.9 | 2656.9 |
| 67.5° | 172.6  | 173.2  | 162.2  | 152.9  | 156.0  | 172.9  | 731.8  | 1490.7 | 2298.3 | 3069.7 | 1925.8 |
| 70°   | 159.0  | 158.3  | 146.3  | 131.3  | 127.1  | 118.2  | 232.6  | 546.4  | 1098.3 | 1556.7 | 895.6  |
| 72.5° | 140.7  | 141.1  | 135.3  | 115.7  | 105.6  | 82.7   | 107.8  | 159.3  | 327.8  | 424.3  | 209.8  |
| 75°   | 124.8  | 123.1  | 116.1  | 103.6  | 87.0   | 54.4   | 53.4   | 71.0   | 100.9  | 100.3  | 45.3   |
| 77.5° | 90.2   | 88.6   | 90.9   | 85.0   | 66.7   | 35.2   | 26.8   | 34.2   | 41.1   | 39.8   | 12.7   |
| 80°   | 66.1   | 65.1   | 58.7   | 70.7   | 59.0   | 24.1   | 16.6   | 18.2   | 21.2   | 17.9   | 4.0    |
| 82.5° | 45.3   | 45.1   | 41.4   | 39.2   | 33.6   | 14.6   | 10.4   | 11.4   | 13.6   | 10.1   | 1.9    |
| 85°   | 7.2    | 8.2    | 29.9   | 23.8   | 19.8   | 6.5    | 7.2    | 7.8    | 9.1    | 5.6    | 0.6    |
| 87.5° | 0.0    | 0.0    | 13.9   | 12.3   | 4.0    | 2.6    | 4.3    | 4.6    | 4.6    | 2.9    | 0.0    |
| 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: P199929

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7030-1200-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 | 1554.1 |
| 2.5°  | 1560.0 | 1527.3 | 1467.2 | 1404.8 | 1347.1 | 1278.5 | 1231.3 | 1195.8 | 1154.7 | 1143.6 | 1167.7 |
| 5°    | 1570.7 | 1509.2 | 1379.5 | 1238.4 | 1105.8 | 958.9  | 846.4  | 757.5  | 677.1  | 649.6  | 674.4  |
| 7.5°  | 1587.6 | 1496.1 | 1284.7 | 1052.3 | 821.7  | 592.3  | 435.3  | 332.0  | 266.1  | 246.6  | 257.1  |
| 10°   | 1604.6 | 1477.1 | 1174.9 | 832.1  | 516.7  | 288.3  | 187.7  | 149.9  | 135.8  | 133.0  | 134.6  |
| 12.5° | 1618.5 | 1451.8 | 1040.9 | 591.6  | 276.3  | 154.4  | 122.8  | 116.7  | 114.7  | 114.7  | 115.4  |
| 15°   | 1627.1 | 1413.4 | 882.3  | 376.3  | 159.0  | 116.7  | 107.2  | 105.2  | 105.2  | 105.6  | 106.2  |
| 17.5° | 1626.1 | 1364.5 | 708.6  | 227.7  | 118.9  | 103.2  | 97.8   | 96.1   | 95.8   | 96.4   | 96.8   |
| 20°   | 1614.1 | 1300.6 | 534.3  | 150.2  | 103.6  | 94.2   | 88.6   | 85.7   | 85.3   | 86.0   | 86.7   |
| 22.5° | 1591.3 | 1221.7 | 382.2  | 115.7  | 93.5   | 85.3   | 78.5   | 75.9   | 75.9   | 76.6   | 77.2   |
| 25°   | 1563.5 | 1125.4 | 261.3  | 98.2   | 84.3   | 75.9   | 69.4   | 67.0   | 67.7   | 69.4   | 69.7   |
| 27.5° | 1529.0 | 1016.8 | 177.5  | 84.0   | 73.3   | 66.4   | 61.6   | 60.0   | 61.6   | 63.8   | 64.5   |
| 30°   | 1499.4 | 903.8  | 126.7  | 72.6   | 62.3   | 57.4   | 54.4   | 54.4   | 56.7   | 60.9   | 62.0   |
| 32.5° | 1476.5 | 794.4  | 97.8   | 64.1   | 54.1   | 49.8   | 48.2   | 49.8   | 53.4   | 57.7   | 58.7   |
| 35°   | 1473.6 | 704.0  | 82.7   | 57.4   | 48.2   | 44.0   | 43.3   | 46.2   | 49.8   | 53.1   | 53.7   |
| 37.5° | 1496.1 | 620.7  | 74.7   | 51.8   | 43.0   | 39.2   | 38.5   | 42.1   | 45.6   | 49.5   | 50.5   |
| 40°   | 1538.8 | 555.1  | 68.8   | 46.6   | 38.8   | 34.5   | 33.3   | 35.8   | 40.8   | 45.9   | 47.2   |
| 42.5° | 1594.2 | 501.1  | 62.3   | 41.4   | 34.5   | 28.6   | 27.1   | 29.9   | 35.2   | 40.8   | 42.4   |
| 45°   | 1647.0 | 454.5  | 55.0   | 35.5   | 29.0   | 22.2   | 21.6   | 25.4   | 28.0   | 33.6   | 34.9   |
| 47.5° | 1675.9 | 413.4  | 48.8   | 29.0   | 22.5   | 17.9   | 17.9   | 18.9   | 21.6   | 28.0   | 29.3   |
| 50°   | 1666.2 | 380.6  | 42.4   | 21.6   | 15.7   | 13.6   | 13.6   | 13.3   | 17.3   | 22.5   | 23.5   |
| 52.5° | 1646.6 | 361.6  | 36.5   | 16.6   | 10.7   | 9.8    | 8.8    | 9.8    | 12.0   | 14.3   | 14.6   |
| 55°   | 1643.7 | 358.4  | 30.6   | 13.3   | 7.5    | 6.5    | 4.9    | 4.9    | 4.9    | 4.6    | 4.0    |
| 57.5° | 1666.5 | 363.7  | 25.7   | 10.7   | 5.6    | 4.3    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 1689.9 | 369.2  | 22.2   | 7.5    | 4.0    | 2.3    | 0.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 1650.9 | 356.7  | 18.6   | 4.6    | 2.9    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 1450.2 | 303.6  | 14.6   | 3.3    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1031.5 | 203.3  | 9.8    | 1.9    | 0.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 470.8  | 85.0   | 6.2    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 100.6  | 26.4   | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 20.5   | 19.2   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 6.5    | 30.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 4.0    | 21.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.6    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)