

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: P199940

Luminaire Tested: **GAP-AF-02-LED-U-RW-7030-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P199940  
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: GAP-AF-02-LED-U-RW-7030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8091.8 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 66  
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

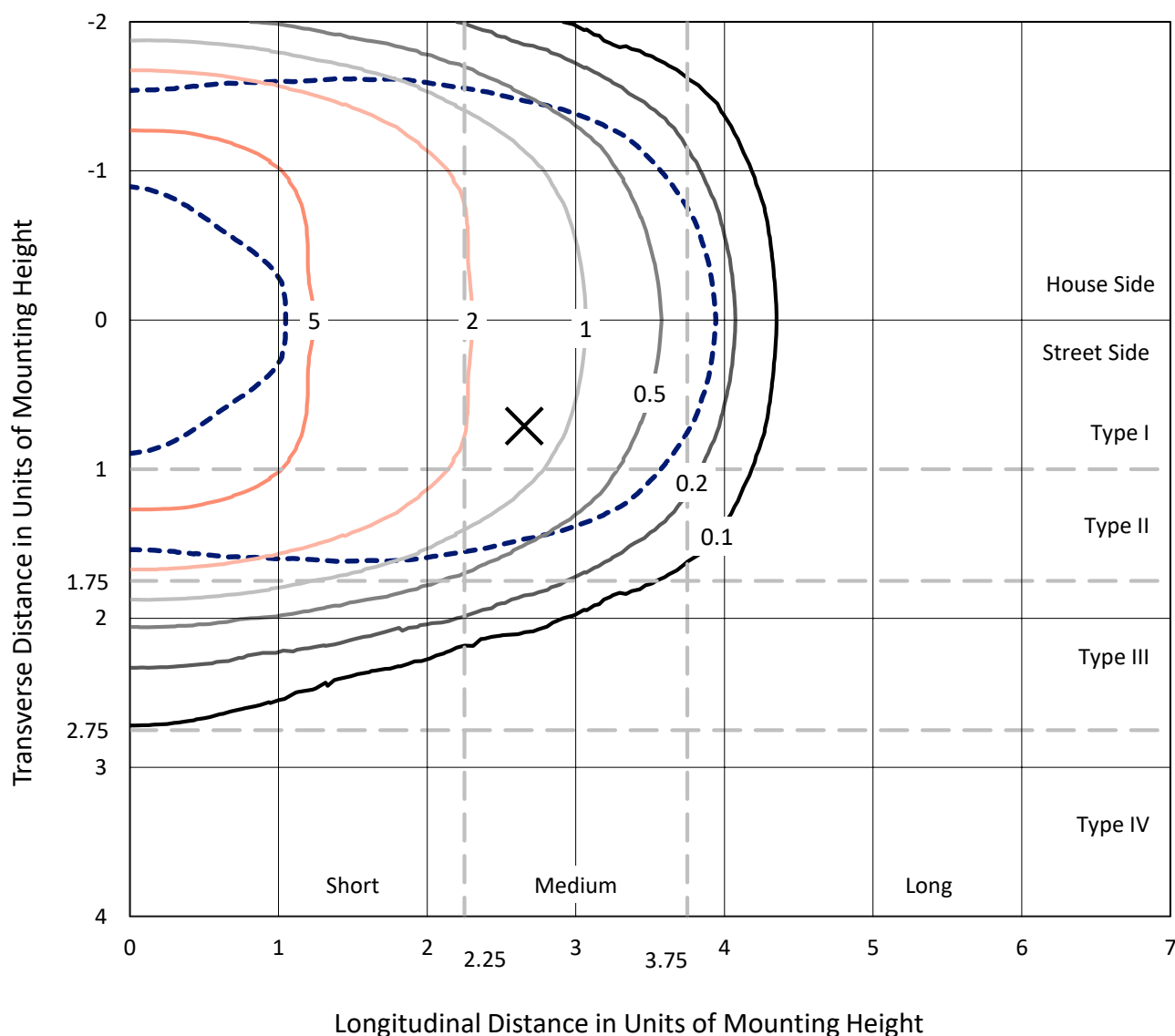


REPORT NUMBER: P199940

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

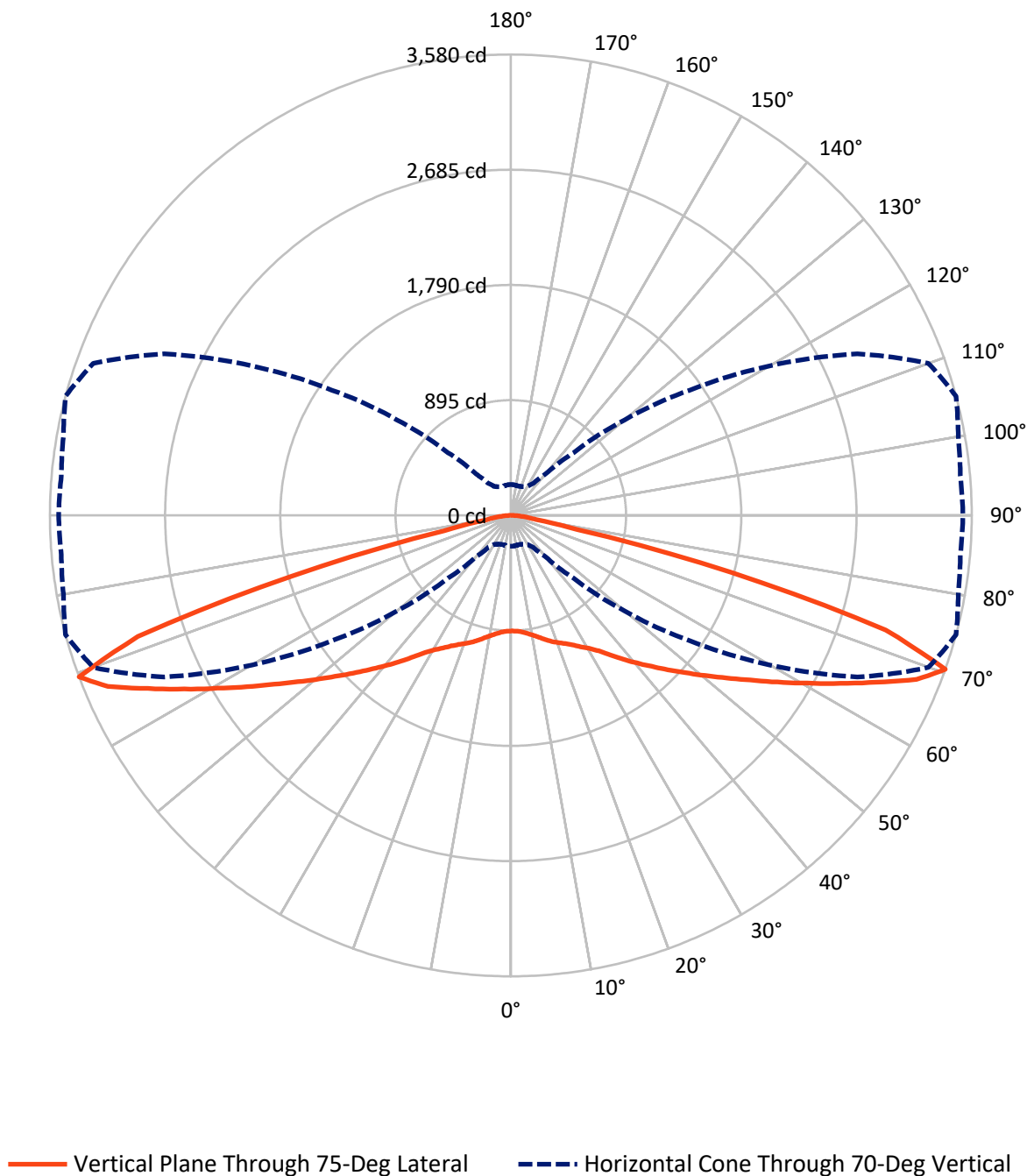


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P199940

CATALOG NUMBER: GAP-AF-02-LED-U-RW-7030-600

## Luminous Intensity Polar Plot



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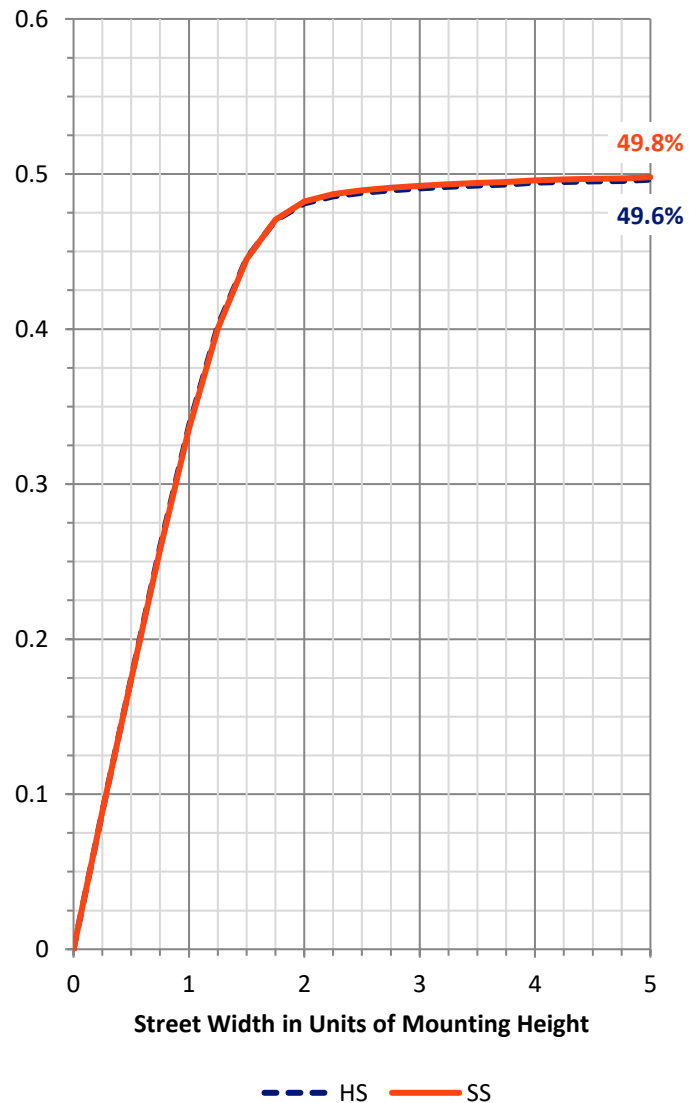
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4045.9   | 0.0    | 4045.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4045.9   | 0.0    | 4045.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8091.8   | 0.0    | 8091.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.1   | 1.1       |
| 10°-20°   | 267.5  | 3.3       |
| 20°-30°   | 503.4  | 6.2       |
| 30°-40°   | 891.5  | 11.0      |
| 40°-50°   | 1490.8 | 18.4      |
| 50°-60°   | 2077.5 | 25.7      |
| 60°-70°   | 1926.5 | 23.8      |
| 70°-80°   | 767.8  | 9.5       |
| 80°-90°   | 80.7   | 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°    | 8091.8 | 100.0     |
| 0°-180°   | 8091.8 | 100.0     |

**Coefficient of Utilization**



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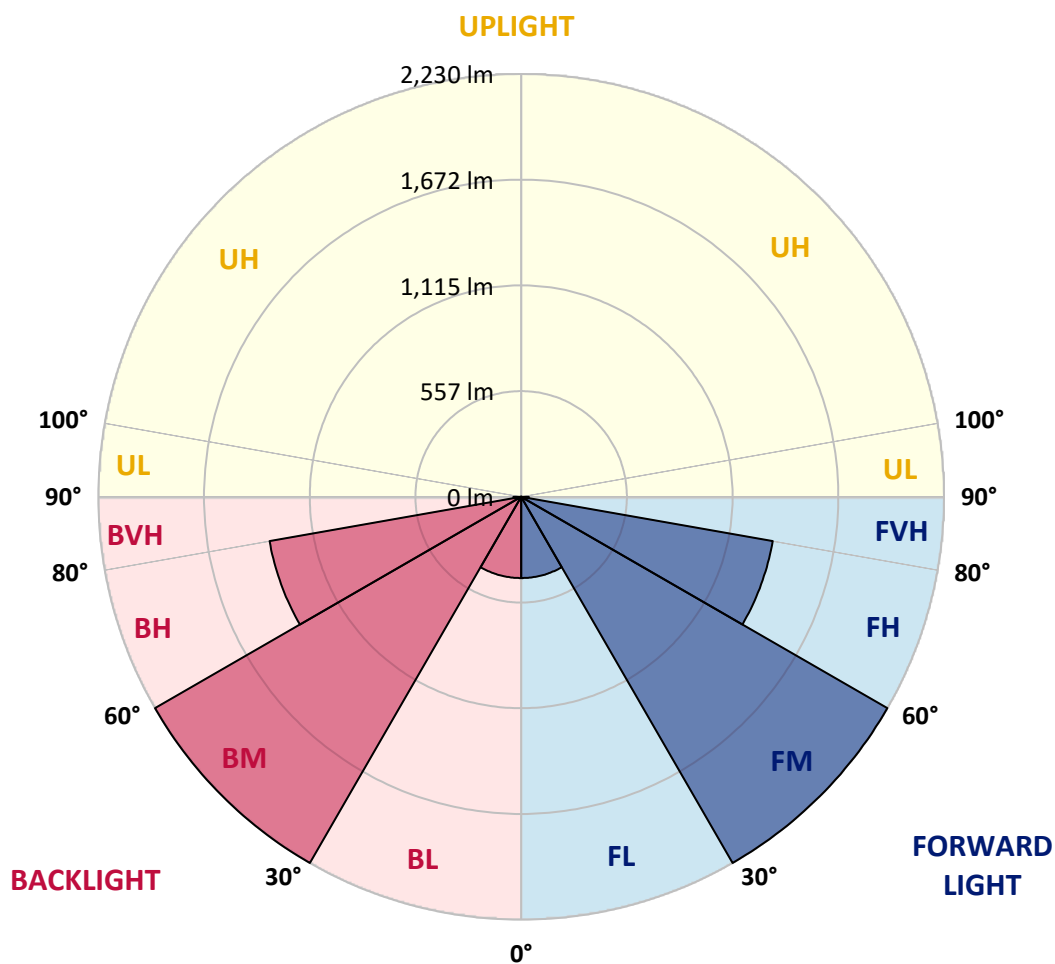
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 428.5  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 2229.9 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 1347.1 | 16.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 40.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 428.5  | 5.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2229.9 | 27.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1347.1 | 16.6      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 40.4   | 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-G1**

Type V Medium





REPORT NUMBER: P199940

CATALOG NUMBER: GAP-AF-02-LED-U-RW-7030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  |
| 2.5°  | 896.0  | 895.3  | 896.0  | 895.6  | 896.4  | 896.4  | 897.1  | 898.6  | 898.6  | 899.9  | 899.4  |
| 5°    | 887.1  | 886.8  | 888.0  | 889.2  | 890.3  | 892.5  | 894.9  | 898.3  | 901.0  | 902.9  | 904.7  |
| 7.5°  | 870.0  | 870.0  | 871.6  | 874.2  | 877.0  | 881.8  | 887.1  | 894.1  | 901.0  | 906.8  | 911.7  |
| 10°   | 855.8  | 856.6  | 858.6  | 863.1  | 867.7  | 875.3  | 882.6  | 892.5  | 902.2  | 911.7  | 919.3  |
| 12.5° | 847.5  | 848.6  | 852.0  | 858.9  | 866.5  | 877.0  | 888.0  | 900.7  | 911.3  | 922.8  | 930.5  |
| 15°   | 850.1  | 850.9  | 855.8  | 864.2  | 874.2  | 887.1  | 902.2  | 917.0  | 929.7  | 942.0  | 952.3  |
| 17.5° | 865.0  | 866.2  | 871.9  | 881.5  | 891.8  | 907.1  | 923.1  | 940.0  | 955.7  | 969.4  | 982.1  |
| 20°   | 891.8  | 892.9  | 900.2  | 910.5  | 922.8  | 938.5  | 954.6  | 972.2  | 989.8  | 1004.3 | 1018.4 |
| 22.5° | 929.7  | 931.6  | 938.5  | 948.8  | 962.6  | 979.4  | 998.5  | 1017.3 | 1034.1 | 1047.5 | 1060.2 |
| 25°   | 979.4  | 983.7  | 990.1  | 1001.6 | 1016.1 | 1031.4 | 1052.0 | 1071.2 | 1087.2 | 1099.9 | 1109.1 |
| 27.5° | 1049.8 | 1055.6 | 1060.5 | 1071.7 | 1085.7 | 1100.2 | 1120.9 | 1137.7 | 1153.0 | 1165.2 | 1172.2 |
| 30°   | 1143.1 | 1148.9 | 1153.8 | 1164.4 | 1177.5 | 1191.3 | 1210.8 | 1225.7 | 1235.2 | 1244.8 | 1244.5 |
| 32.5° | 1256.3 | 1262.4 | 1264.3 | 1275.8 | 1289.1 | 1304.1 | 1321.7 | 1330.1 | 1337.8 | 1338.9 | 1332.0 |
| 35°   | 1382.9 | 1386.0 | 1393.6 | 1408.9 | 1424.2 | 1436.4 | 1453.2 | 1457.4 | 1457.4 | 1451.7 | 1436.4 |
| 37.5° | 1521.7 | 1523.6 | 1534.3 | 1551.5 | 1567.3 | 1579.8 | 1591.3 | 1599.7 | 1595.5 | 1583.2 | 1557.6 |
| 40°   | 1673.9 | 1677.3 | 1692.7 | 1707.9 | 1725.5 | 1737.3 | 1749.6 | 1751.1 | 1746.9 | 1728.9 | 1694.2 |
| 42.5° | 1819.1 | 1822.2 | 1837.5 | 1861.7 | 1884.6 | 1901.1 | 1912.6 | 1914.9 | 1901.4 | 1885.0 | 1841.8 |
| 45°   | 1944.3 | 1952.4 | 1972.2 | 2000.5 | 2033.8 | 2057.2 | 2072.7 | 2079.3 | 2067.4 | 2046.0 | 1995.9 |
| 47.5° | 2043.3 | 2051.4 | 2079.6 | 2113.3 | 2154.6 | 2192.5 | 2218.5 | 2232.2 | 2229.2 | 2213.1 | 2158.4 |
| 50°   | 2116.1 | 2123.7 | 2154.3 | 2195.6 | 2243.7 | 2290.7 | 2335.1 | 2367.9 | 2379.4 | 2372.2 | 2322.1 |
| 52.5° | 2124.4 | 2137.0 | 2172.9 | 2228.5 | 2291.1 | 2355.4 | 2418.5 | 2474.2 | 2512.2 | 2517.9 | 2480.8 |
| 55°   | 2007.0 | 2019.6 | 2069.4 | 2151.6 | 2244.8 | 2349.6 | 2450.5 | 2544.6 | 2619.3 | 2657.5 | 2637.9 |
| 57.5° | 1730.1 | 1752.6 | 1805.1 | 1901.4 | 2038.8 | 2195.6 | 2356.5 | 2523.7 | 2675.4 | 2776.9 | 2796.3 |
| 60°   | 1325.9 | 1352.6 | 1405.4 | 1507.9 | 1660.8 | 1847.9 | 2062.9 | 2309.8 | 2578.0 | 2805.9 | 2942.1 |
| 62.5° | 850.5  | 875.7  | 931.2  | 1020.4 | 1145.0 | 1347.7 | 1578.2 | 1871.6 | 2231.8 | 2591.7 | 2916.0 |
| 65°   | 437.1  | 450.9  | 479.9  | 533.8  | 631.0  | 782.4  | 989.4  | 1281.9 | 1693.7 | 2137.7 | 2606.6 |
| 67.5° | 276.9  | 279.6  | 286.0  | 293.7  | 318.6  | 370.9  | 467.3  | 649.8  | 988.6  | 1451.7 | 2000.5 |
| 70°   | 239.4  | 239.4  | 236.3  | 235.2  | 238.3  | 245.5  | 260.5  | 302.8  | 417.3  | 689.1  | 1153.8 |
| 72.5° | 219.2  | 216.9  | 211.5  | 207.3  | 206.5  | 206.5  | 209.6  | 216.2  | 234.5  | 280.7  | 451.7  |
| 75°   | 201.9  | 195.5  | 188.2  | 183.2  | 181.3  | 179.4  | 178.9  | 180.2  | 184.0  | 191.2  | 215.7  |
| 77.5° | 181.0  | 172.5  | 164.1  | 159.1  | 156.8  | 154.2  | 151.9  | 149.1  | 147.3  | 149.5  | 160.3  |
| 80°   | 155.7  | 146.1  | 139.7  | 136.6  | 134.3  | 130.4  | 125.4  | 120.8  | 116.7  | 116.0  | 122.4  |
| 82.5° | 125.4  | 114.4  | 114.7  | 116.0  | 111.7  | 106.3  | 100.9  | 96.0   | 88.7   | 84.9   | 88.7   |
| 85°   | 101.4  | 95.6   | 93.0   | 100.2  | 94.1   | 86.1   | 77.7   | 68.9   | 57.4   | 48.2   | 52.5   |
| 87.5° | 39.5   | 39.5   | 58.9   | 90.6   | 81.5   | 66.5   | 57.1   | 48.6   | 30.3   | 23.4   | 23.7   |
| 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: P199940

CATALOG NUMBER: GAP-AF-02-LED-U-RW-7030-600

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  | 897.6  |
| 2.5°  | 899.1  | 899.9  | 899.4  | 899.1  | 899.1  | 898.6  | 899.1  | 899.1  |
| 5°    | 906.0  | 907.8  | 907.8  | 908.6  | 908.6  | 909.0  | 909.4  | 909.0  |
| 7.5°  | 916.2  | 919.8  | 922.0  | 924.7  | 925.1  | 925.4  | 926.2  | 925.4  |
| 10°   | 926.6  | 933.5  | 938.5  | 943.5  | 945.7  | 946.5  | 947.3  | 947.3  |
| 12.5° | 939.6  | 949.3  | 957.9  | 966.8  | 971.0  | 973.3  | 973.3  | 974.8  |
| 15°   | 961.1  | 970.7  | 980.9  | 992.8  | 1000.0 | 1003.9 | 1005.0 | 1005.0 |
| 17.5° | 991.3  | 999.7  | 1008.5 | 1019.9 | 1029.1 | 1034.1 | 1035.2 | 1034.9 |
| 20°   | 1026.5 | 1034.4 | 1039.5 | 1046.7 | 1054.8 | 1060.5 | 1062.0 | 1062.0 |
| 22.5° | 1066.6 | 1071.2 | 1072.0 | 1074.2 | 1080.8 | 1088.4 | 1091.8 | 1092.6 |
| 25°   | 1110.9 | 1112.1 | 1109.1 | 1109.1 | 1113.3 | 1120.6 | 1124.0 | 1124.4 |
| 27.5° | 1168.3 | 1162.6 | 1155.0 | 1152.2 | 1155.0 | 1163.4 | 1167.6 | 1169.1 |
| 30°   | 1239.9 | 1226.1 | 1208.5 | 1198.9 | 1197.4 | 1208.5 | 1216.2 | 1217.2 |
| 32.5° | 1321.7 | 1301.9 | 1278.5 | 1259.0 | 1254.0 | 1260.9 | 1270.0 | 1269.7 |
| 35°   | 1418.8 | 1395.1 | 1366.9 | 1341.9 | 1330.4 | 1337.4 | 1350.3 | 1351.9 |
| 37.5° | 1530.8 | 1499.9 | 1467.4 | 1436.0 | 1418.0 | 1420.0 | 1433.7 | 1438.3 |
| 40°   | 1656.0 | 1615.7 | 1574.9 | 1532.8 | 1507.1 | 1502.2 | 1519.0 | 1521.7 |
| 42.5° | 1789.7 | 1738.1 | 1686.5 | 1634.5 | 1601.6 | 1594.0 | 1613.4 | 1612.3 |
| 45°   | 1932.5 | 1866.5 | 1806.2 | 1748.8 | 1709.8 | 1698.3 | 1714.4 | 1714.4 |
| 47.5° | 2085.8 | 2004.7 | 1932.8 | 1867.8 | 1825.2 | 1808.9 | 1824.2 | 1825.2 |
| 50°   | 2248.3 | 2162.2 | 2077.8 | 2005.5 | 1954.6 | 1933.6 | 1953.4 | 1956.5 |
| 52.5° | 2410.0 | 2326.3 | 2241.0 | 2158.4 | 2096.9 | 2071.2 | 2094.2 | 2104.2 |
| 55°   | 2574.1 | 2491.8 | 2410.5 | 2329.7 | 2256.8 | 2226.4 | 2251.0 | 2263.7 |
| 57.5° | 2747.4 | 2671.3 | 2593.6 | 2512.2 | 2441.8 | 2394.8 | 2420.7 | 2437.6 |
| 60°   | 2950.4 | 2885.4 | 2804.6 | 2714.9 | 2643.7 | 2595.9 | 2610.9 | 2625.7 |
| 62.5° | 3111.0 | 3136.3 | 3067.9 | 2963.8 | 2872.4 | 2811.2 | 2825.8 | 2841.5 |
| 65°   | 3033.5 | 3292.3 | 3353.1 | 3248.0 | 3121.4 | 3026.2 | 3020.0 | 3028.1 |
| 67.5° | 2535.5 | 3038.4 | 3405.2 | 3505.4 | 3399.4 | 3267.1 | 3242.6 | 3254.5 |
| 70°   | 1696.0 | 2322.6 | 2969.5 | 3451.4 | 3579.6 | 3528.3 | 3504.2 | 3511.5 |
| 72.5° | 814.5  | 1352.6 | 2014.6 | 2655.2 | 3045.3 | 3224.2 | 3281.6 | 3309.6 |
| 75°   | 297.9  | 536.9  | 971.0  | 1463.2 | 1766.4 | 2044.9 | 2226.4 | 2300.7 |
| 77.5° | 179.7  | 216.9  | 310.2  | 467.0  | 529.0  | 591.9  | 567.5  | 579.7  |
| 80°   | 133.1  | 150.3  | 170.2  | 191.2  | 198.1  | 198.1  | 190.4  | 184.3  |
| 82.5° | 93.3   | 104.5  | 113.9  | 125.4  | 128.5  | 122.8  | 100.9  | 80.3   |
| 85°   | 60.1   | 65.0   | 69.3   | 76.5   | 74.7   | 71.1   | 47.8   | 42.5   |
| 87.5° | 27.6   | 31.3   | 32.9   | 36.4   | 34.9   | 33.4   | 23.7   | 19.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)