

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: P199956

Luminaire Tested: **GAP-AF-02-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P199956  
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: GAP-AF-02-LED-U-SL2-7030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 7755.3 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

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



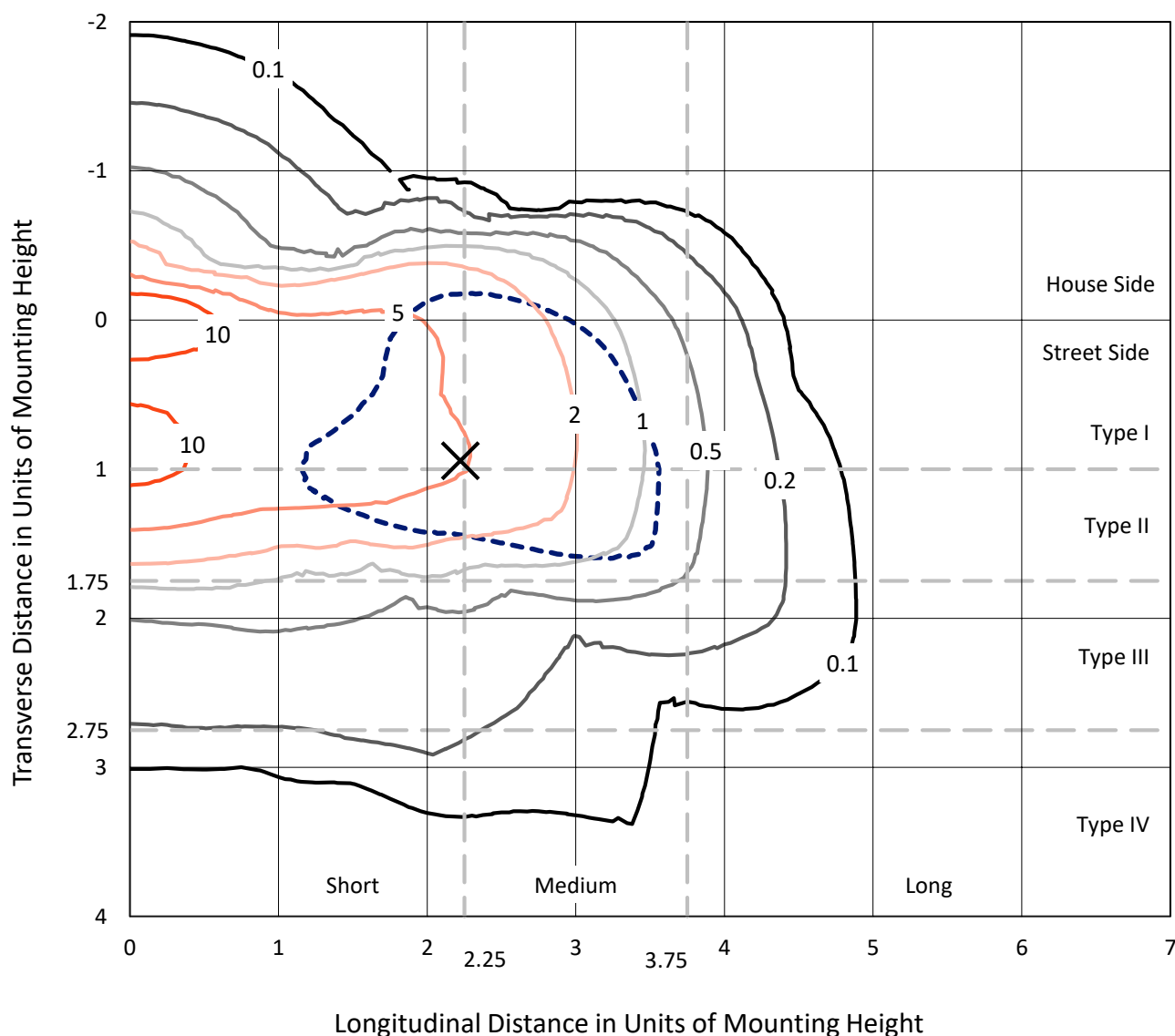
REPORT NUMBER: P199956

CATALOG NUMBER: GAP-AF-02-LED-U-SL2-7030-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

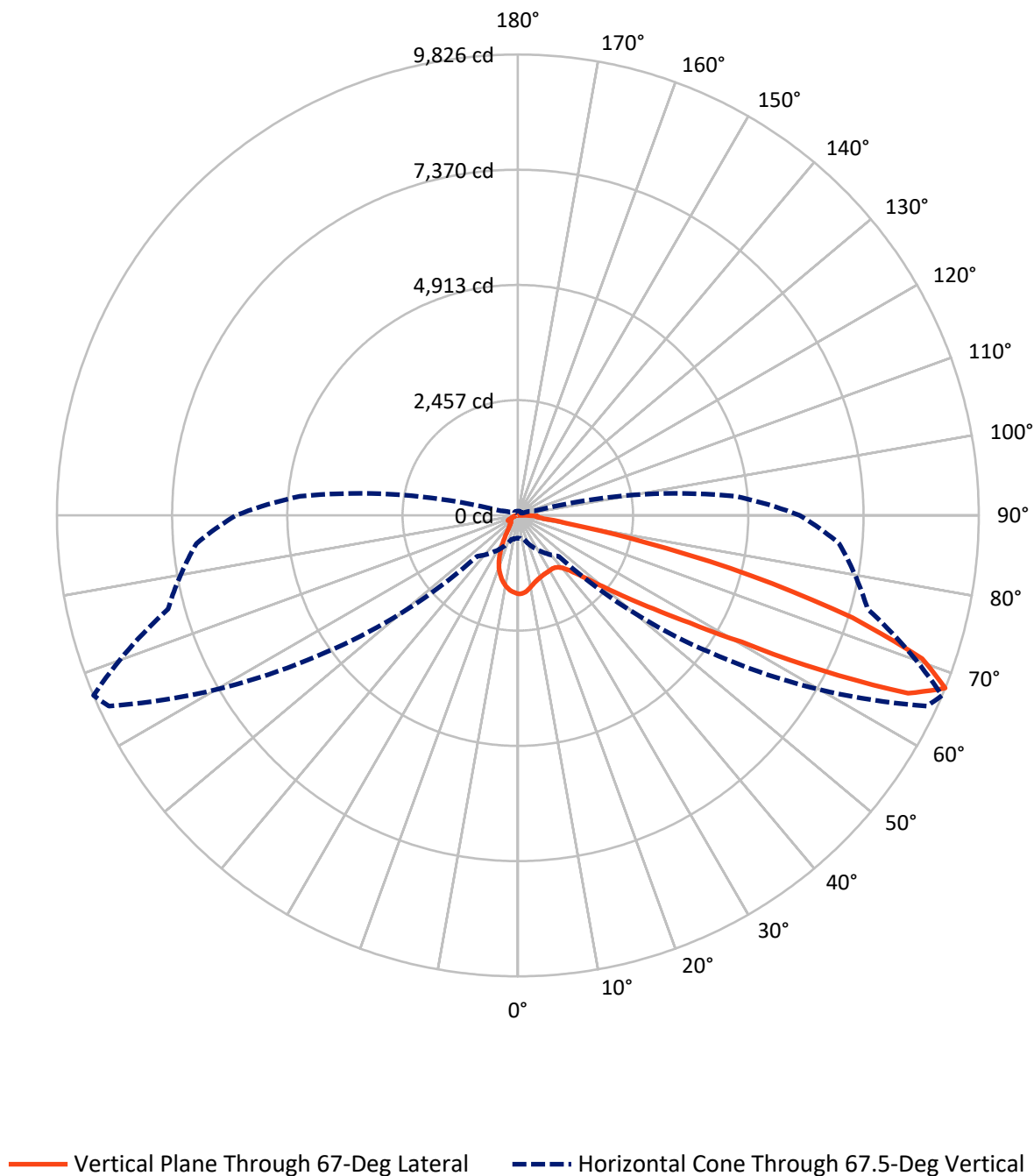


Based on 10 foot mounting height. Maximum calculated value = 16.7 fc  
Type II - Short - Semi-Cutoff

REPORT NUMBER: P199956

CATALOG NUMBER: GAP-AF-02-LED-U-SL2-7030-600

## Luminous Intensity Polar Plot



REPORT NUMBER: P199956

CATALOG NUMBER: GAP-AF-02-LED-U-SL2-7030-600

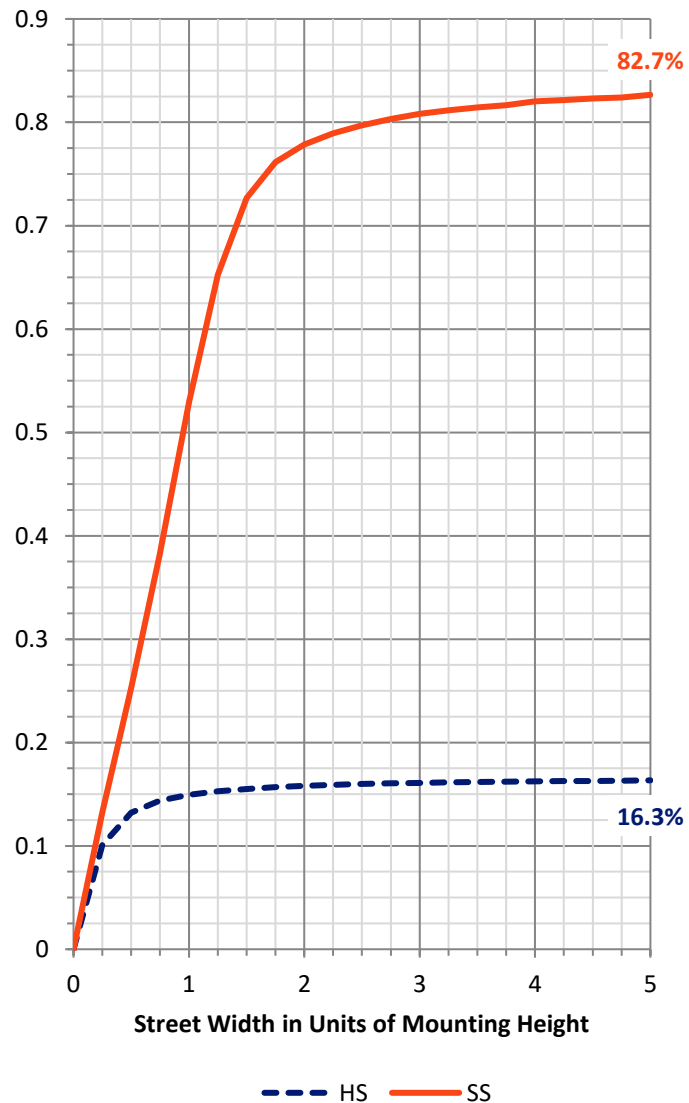
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1285.0   | 0.0    | 1285.0 |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 6470.3   | 0.0    | 6470.3 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 7755.3   | 0.0    | 7755.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.7  | 1.8       |
| 10°-20°   | 330.2  | 4.3       |
| 20°-30°   | 447.6  | 5.8       |
| 30°-40°   | 636.3  | 8.2       |
| 40°-50°   | 1064.6 | 13.7      |
| 50°-60°   | 1684.2 | 21.7      |
| 60°-70°   | 2145.5 | 27.7      |
| 70°-80°   | 1123.8 | 14.5      |
| 80°-90°   | 180.3  | 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°    | 7755.3 | 100.0     |
| 0°-180°   | 7755.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P199956

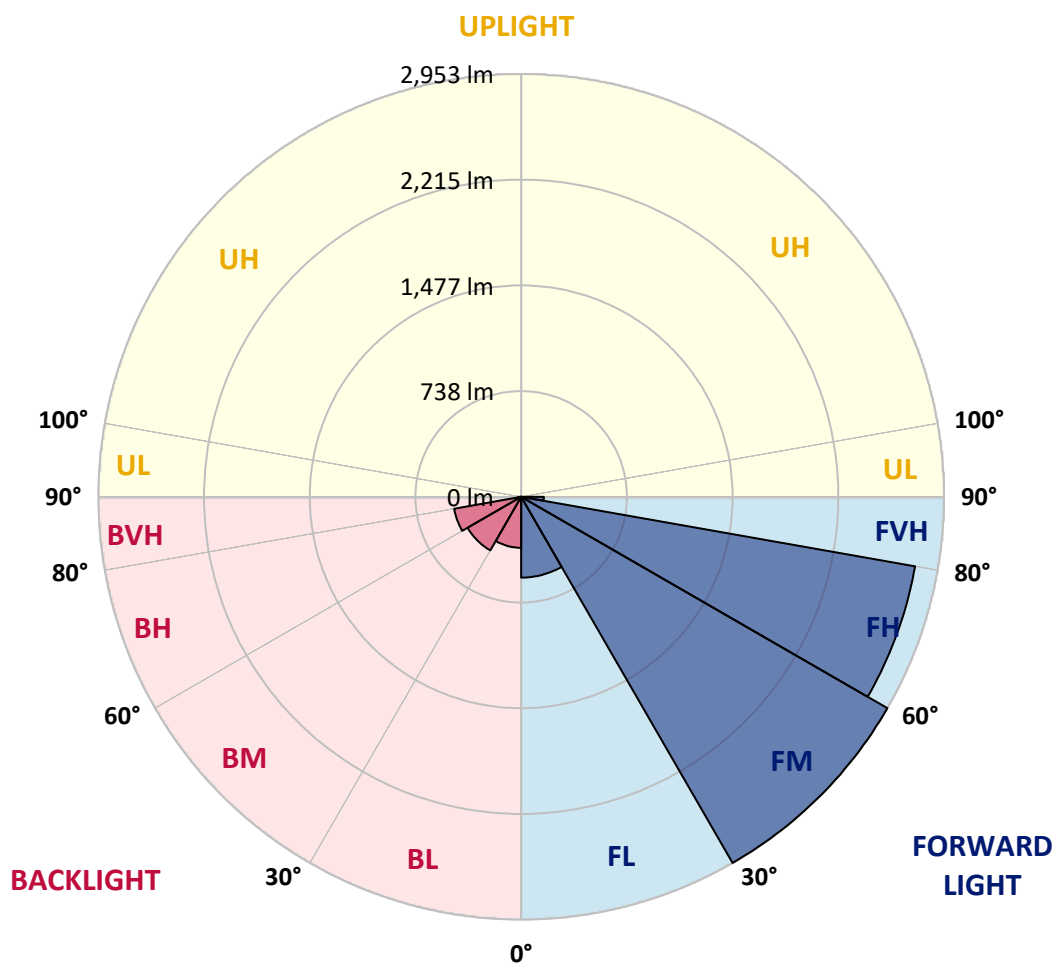
CATALOG NUMBER: GAP-AF-02-LED-U-SL2-7030-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 564.4  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2953.4 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 2794.0 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 158.5  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 356.2  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 431.8  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 475.3  | 6.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.8   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P199956

CATALOG NUMBER: GAP-AF-02-LED-U-SL2-7030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 |
| 2.5°  | 1603.9 | 1606.6 | 1615.1 | 1620.5 | 1644.5 | 1654.8 | 1662.1 | 1669.4 | 1670.5 | 1674.0 | 1670.5 |
| 5°    | 1435.6 | 1441.4 | 1457.1 | 1474.7 | 1521.3 | 1558.0 | 1596.8 | 1636.8 | 1644.2 | 1670.1 | 1677.3 |
| 7.5°  | 1305.2 | 1303.7 | 1316.7 | 1337.8 | 1385.6 | 1436.4 | 1504.2 | 1584.0 | 1599.8 | 1658.2 | 1686.5 |
| 10°   | 1210.0 | 1208.9 | 1222.6 | 1244.5 | 1290.0 | 1338.1 | 1414.7 | 1524.0 | 1546.2 | 1639.6 | 1695.3 |
| 12.5° | 1139.7 | 1140.0 | 1153.8 | 1178.0 | 1224.1 | 1272.8 | 1350.3 | 1465.9 | 1494.2 | 1617.7 | 1704.6 |
| 15°   | 1093.0 | 1096.1 | 1107.2 | 1132.8 | 1178.0 | 1226.4 | 1302.6 | 1422.3 | 1454.0 | 1600.5 | 1714.9 |
| 17.5° | 1077.3 | 1082.3 | 1086.1 | 1104.8 | 1143.5 | 1192.0 | 1266.7 | 1390.3 | 1423.8 | 1588.6 | 1724.0 |
| 20°   | 1091.8 | 1097.6 | 1090.3 | 1096.9 | 1121.3 | 1164.1 | 1238.4 | 1364.8 | 1399.4 | 1575.3 | 1725.2 |
| 22.5° | 1154.3 | 1159.6 | 1138.2 | 1119.4 | 1117.8 | 1143.8 | 1215.0 | 1345.0 | 1380.6 | 1565.3 | 1725.5 |
| 25°   | 1263.9 | 1267.4 | 1231.5 | 1187.8 | 1145.4 | 1136.7 | 1198.6 | 1331.3 | 1369.1 | 1556.5 | 1718.3 |
| 27.5° | 1398.6 | 1401.2 | 1360.0 | 1295.7 | 1210.4 | 1153.8 | 1192.8 | 1323.2 | 1362.6 | 1548.9 | 1706.1 |
| 30°   | 1562.3 | 1574.9 | 1519.5 | 1438.4 | 1314.1 | 1204.7 | 1204.2 | 1319.0 | 1355.4 | 1535.8 | 1681.9 |
| 32.5° | 1729.8 | 1735.1 | 1696.9 | 1614.7 | 1453.7 | 1294.1 | 1236.4 | 1322.0 | 1353.4 | 1520.3 | 1651.4 |
| 35°   | 1899.6 | 1906.5 | 1881.6 | 1815.5 | 1644.5 | 1425.4 | 1299.1 | 1340.1 | 1365.3 | 1514.9 | 1629.9 |
| 37.5° | 2119.5 | 2128.7 | 2094.3 | 2017.7 | 1876.6 | 1603.2 | 1403.6 | 1385.2 | 1401.7 | 1530.1 | 1623.5 |
| 40°   | 2467.1 | 2462.9 | 2362.3 | 2248.3 | 2130.5 | 1830.7 | 1552.7 | 1461.7 | 1471.2 | 1579.5 | 1643.4 |
| 42.5° | 2871.8 | 2861.4 | 2688.1 | 2509.1 | 2409.7 | 2106.1 | 1750.0 | 1594.4 | 1592.5 | 1676.6 | 1713.3 |
| 45°   | 3194.5 | 3186.1 | 3030.1 | 2809.4 | 2729.9 | 2419.6 | 2005.1 | 1792.1 | 1777.9 | 1830.7 | 1842.5 |
| 47.5° | 3369.2 | 3369.7 | 3279.8 | 3099.6 | 3097.7 | 2818.3 | 2332.9 | 2078.2 | 2053.6 | 2078.5 | 2065.9 |
| 50°   | 3308.1 | 3316.1 | 3306.5 | 3249.2 | 3433.5 | 3340.6 | 2760.9 | 2477.0 | 2427.7 | 2452.3 | 2403.6 |
| 52.5° | 3012.1 | 3022.4 | 3079.0 | 3167.0 | 3574.6 | 3972.0 | 3389.6 | 2972.7 | 2915.4 | 2906.6 | 2852.6 |
| 55°   | 2487.4 | 2500.0 | 2615.4 | 2854.5 | 3457.3 | 4396.1 | 4381.7 | 3604.5 | 3513.1 | 3430.0 | 3407.1 |
| 57.5° | 1714.5 | 1735.5 | 1921.4 | 2276.3 | 3077.5 | 4524.2 | 5562.9 | 4505.1 | 4319.2 | 4029.4 | 4034.7 |
| 60°   | 966.4  | 990.9  | 1210.0 | 1532.5 | 2311.1 | 4385.0 | 6461.7 | 5869.3 | 5476.8 | 4731.2 | 4771.0 |
| 62.5° | 614.6  | 641.0  | 807.3  | 1064.7 | 1386.7 | 3635.5 | 6829.9 | 7765.8 | 7267.5 | 5596.3 | 5635.3 |
| 65°   | 497.5  | 509.0  | 587.4  | 878.9  | 1007.0 | 2190.2 | 6550.4 | 9328.0 | 9142.2 | 6694.2 | 6512.2 |
| 67.5° | 485.6  | 489.5  | 530.0  | 737.7  | 965.7  | 1231.1 | 5224.9 | 9620.2 | 9826.3 | 7719.5 | 6877.4 |
| 70°   | 479.9  | 493.3  | 597.3  | 704.0  | 924.8  | 1038.3 | 3139.8 | 8819.4 | 9144.9 | 7987.6 | 6391.3 |
| 72.5° | 232.9  | 232.1  | 300.6  | 636.8  | 1041.8 | 1077.0 | 1613.1 | 7135.9 | 7462.5 | 6920.3 | 5252.0 |
| 75°   | 187.8  | 171.7  | 164.1  | 233.3  | 1001.6 | 1112.1 | 1028.0 | 4910.1 | 5146.4 | 4639.7 | 3228.5 |
| 77.5° | 178.2  | 159.1  | 145.8  | 146.1  | 423.4  | 1179.5 | 870.8  | 2717.6 | 2786.4 | 2095.8 | 884.6  |
| 80°   | 147.6  | 130.0  | 120.5  | 135.8  | 205.0  | 1123.1 | 941.6  | 1229.9 | 1128.5 | 514.7  | 294.5  |
| 82.5° | 102.4  | 93.3   | 90.6   | 113.9  | 164.1  | 800.5  | 1094.9 | 660.8  | 554.2  | 257.8  | 181.7  |
| 85°   | 65.4   | 55.8   | 62.0   | 83.0   | 127.8  | 369.4  | 1127.8 | 515.1  | 409.6  | 163.7  | 102.4  |
| 87.5° | 30.3   | 24.5   | 30.6   | 45.9   | 83.4   | 127.4  | 1073.2 | 578.6  | 421.8  | 86.5   | 64.7   |
| 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: P199956

CATALOG NUMBER: GAP-AF-02-LED-U-SL2-7030-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 |
| 2.5°  | 1673.6 | 1666.3 | 1660.5 | 1649.9 | 1638.1 | 1626.6 | 1616.2 | 1603.2 | 1599.3 | 1596.0 | 1601.3 |
| 5°    | 1678.9 | 1671.6 | 1650.6 | 1617.7 | 1581.4 | 1547.3 | 1513.4 | 1484.3 | 1466.3 | 1456.3 | 1462.1 |
| 7.5°  | 1687.0 | 1676.6 | 1633.0 | 1572.6 | 1507.2 | 1447.5 | 1386.0 | 1336.6 | 1300.3 | 1283.0 | 1288.0 |
| 10°   | 1694.2 | 1674.3 | 1603.2 | 1512.5 | 1417.0 | 1328.1 | 1231.1 | 1150.7 | 1091.1 | 1059.7 | 1067.4 |
| 12.5° | 1697.3 | 1665.5 | 1561.6 | 1437.7 | 1306.4 | 1176.4 | 1033.4 | 913.3  | 827.6  | 796.3  | 789.7  |
| 15°   | 1700.3 | 1655.6 | 1515.7 | 1352.3 | 1172.9 | 989.1  | 788.7  | 644.7  | 573.6  | 558.0  | 554.5  |
| 17.5° | 1701.0 | 1638.4 | 1463.6 | 1259.8 | 1016.5 | 766.0  | 539.2  | 447.9  | 448.2  | 473.4  | 476.5  |
| 20°   | 1693.1 | 1612.7 | 1400.4 | 1144.6 | 829.2  | 529.7  | 370.2  | 354.5  | 412.2  | 475.4  | 483.0  |
| 22.5° | 1674.7 | 1578.7 | 1328.9 | 1010.4 | 614.6  | 348.7  | 286.5  | 303.6  | 378.2  | 455.5  | 464.3  |
| 25°   | 1651.4 | 1537.4 | 1244.5 | 854.7  | 406.9  | 249.3  | 240.2  | 261.2  | 311.7  | 363.3  | 368.3  |
| 27.5° | 1619.7 | 1488.4 | 1149.6 | 676.6  | 264.3  | 205.4  | 211.5  | 225.6  | 246.3  | 269.3  | 271.5  |
| 30°   | 1578.7 | 1429.9 | 1048.3 | 493.3  | 199.6  | 184.7  | 193.5  | 201.1  | 210.0  | 223.0  | 224.1  |
| 32.5° | 1531.7 | 1373.7 | 944.2  | 340.8  | 177.1  | 174.0  | 181.0  | 184.7  | 191.6  | 199.6  | 200.4  |
| 35°   | 1492.3 | 1320.2 | 836.4  | 240.9  | 167.5  | 166.0  | 170.6  | 172.1  | 178.6  | 187.4  | 188.2  |
| 37.5° | 1469.7 | 1276.5 | 725.2  | 194.3  | 161.0  | 158.8  | 161.3  | 161.3  | 170.6  | 183.5  | 185.5  |
| 40°   | 1471.2 | 1252.4 | 613.8  | 175.6  | 155.7  | 152.6  | 153.0  | 153.0  | 164.9  | 178.9  | 180.2  |
| 42.5° | 1512.9 | 1258.5 | 515.1  | 168.3  | 151.5  | 148.0  | 146.1  | 147.3  | 157.3  | 166.4  | 167.1  |
| 45°   | 1610.8 | 1301.9 | 422.7  | 163.7  | 147.3  | 146.1  | 141.9  | 141.5  | 145.4  | 149.5  | 149.5  |
| 47.5° | 1771.4 | 1387.1 | 359.9  | 160.6  | 143.7  | 143.4  | 138.4  | 133.6  | 133.1  | 134.6  | 134.6  |
| 50°   | 2032.7 | 1534.0 | 317.8  | 157.3  | 141.5  | 138.4  | 132.8  | 125.1  | 122.4  | 123.6  | 123.6  |
| 52.5° | 2424.3 | 1795.9 | 301.8  | 152.6  | 136.6  | 131.5  | 125.1  | 117.5  | 115.2  | 115.5  | 115.5  |
| 55°   | 2937.9 | 2198.3 | 299.5  | 147.3  | 131.2  | 123.1  | 117.8  | 112.1  | 109.4  | 110.2  | 110.2  |
| 57.5° | 3565.4 | 2754.7 | 340.4  | 138.9  | 123.9  | 114.7  | 111.7  | 107.8  | 106.0  | 107.1  | 106.7  |
| 60°   | 4328.5 | 3482.8 | 504.8  | 130.0  | 116.7  | 107.1  | 107.1  | 104.1  | 102.4  | 103.7  | 103.2  |
| 62.5° | 5207.3 | 4319.2 | 709.8  | 123.6  | 109.0  | 100.9  | 102.4  | 100.9  | 99.4   | 100.2  | 99.9   |
| 65°   | 5986.7 | 4864.2 | 664.7  | 118.5  | 101.4  | 95.3   | 97.9   | 97.1   | 96.0   | 96.8   | 96.3   |
| 67.5° | 6009.3 | 4662.3 | 373.2  | 113.2  | 94.1   | 89.5   | 93.3   | 93.0   | 92.3   | 93.0   | 92.6   |
| 70°   | 5362.9 | 3936.8 | 210.4  | 103.2  | 86.5   | 82.6   | 88.0   | 87.6   | 86.9   | 88.4   | 88.0   |
| 72.5° | 4296.7 | 2856.8 | 153.7  | 91.0   | 78.7   | 75.4   | 81.5   | 81.1   | 81.1   | 83.4   | 82.3   |
| 75°   | 2472.4 | 1470.1 | 122.8  | 78.0   | 70.8   | 68.1   | 73.4   | 73.9   | 74.7   | 77.7   | 75.4   |
| 77.5° | 704.8  | 458.2  | 100.2  | 66.2   | 60.8   | 59.6   | 65.0   | 65.8   | 66.2   | 69.6   | 66.5   |
| 80°   | 262.0  | 211.1  | 82.6   | 55.5   | 49.7   | 50.1   | 55.0   | 56.3   | 56.6   | 60.1   | 56.3   |
| 82.5° | 167.1  | 139.2  | 66.9   | 42.8   | 39.0   | 38.7   | 44.8   | 46.3   | 46.3   | 46.7   | 44.4   |
| 85°   | 97.6   | 83.4   | 50.5   | 31.0   | 27.6   | 26.4   | 33.4   | 35.9   | 34.9   | 34.1   | 32.6   |
| 87.5° | 65.4   | 57.4   | 31.0   | 17.3   | 15.0   | 14.2   | 19.5   | 21.5   | 20.6   | 19.5   | 18.3   |
| 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)