

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: P200039

Luminaire Tested: **GAP-AF-01-LED-U-T3R-7030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6285.7 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 59  
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

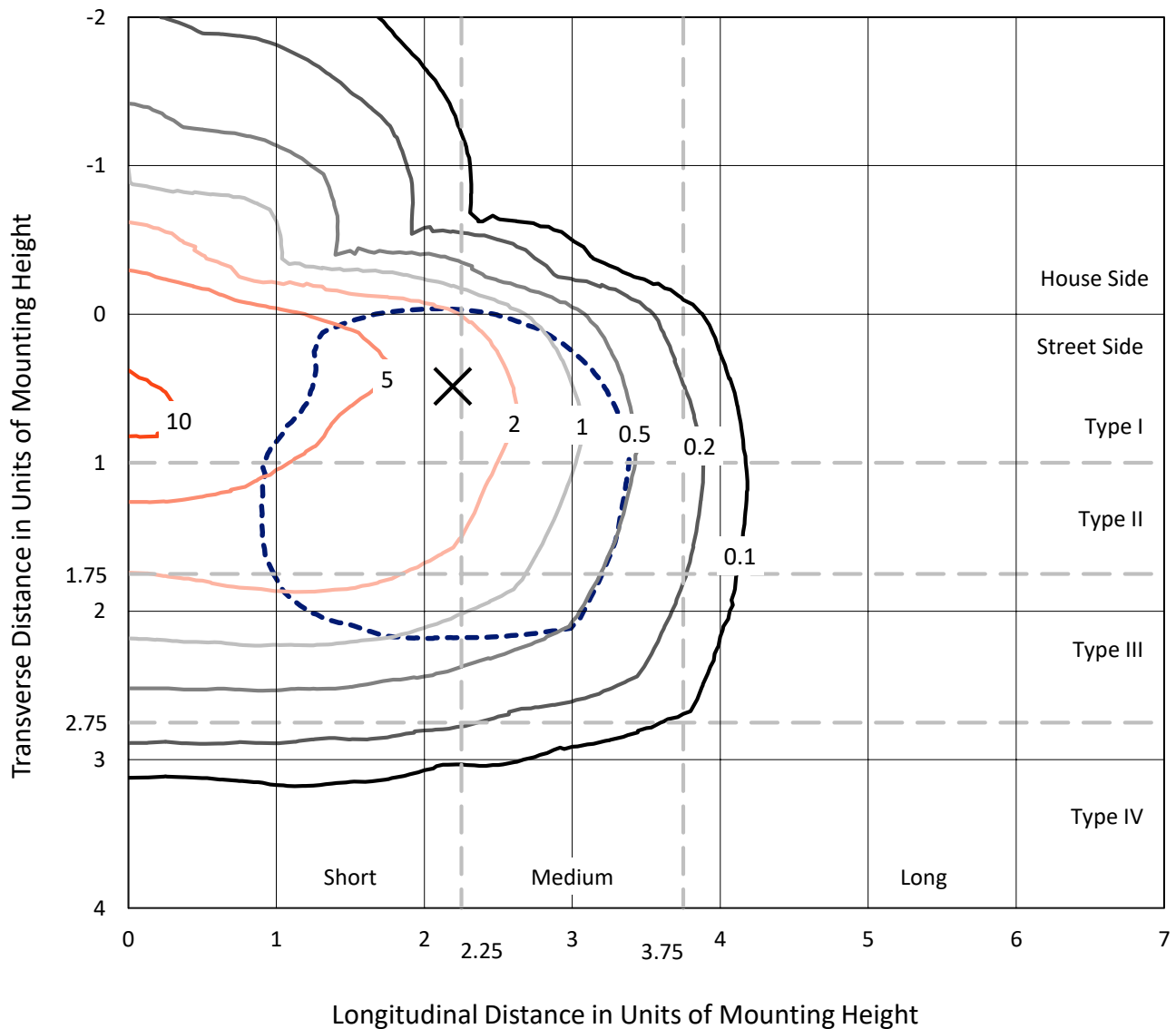


REPORT NUMBER: P200039

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

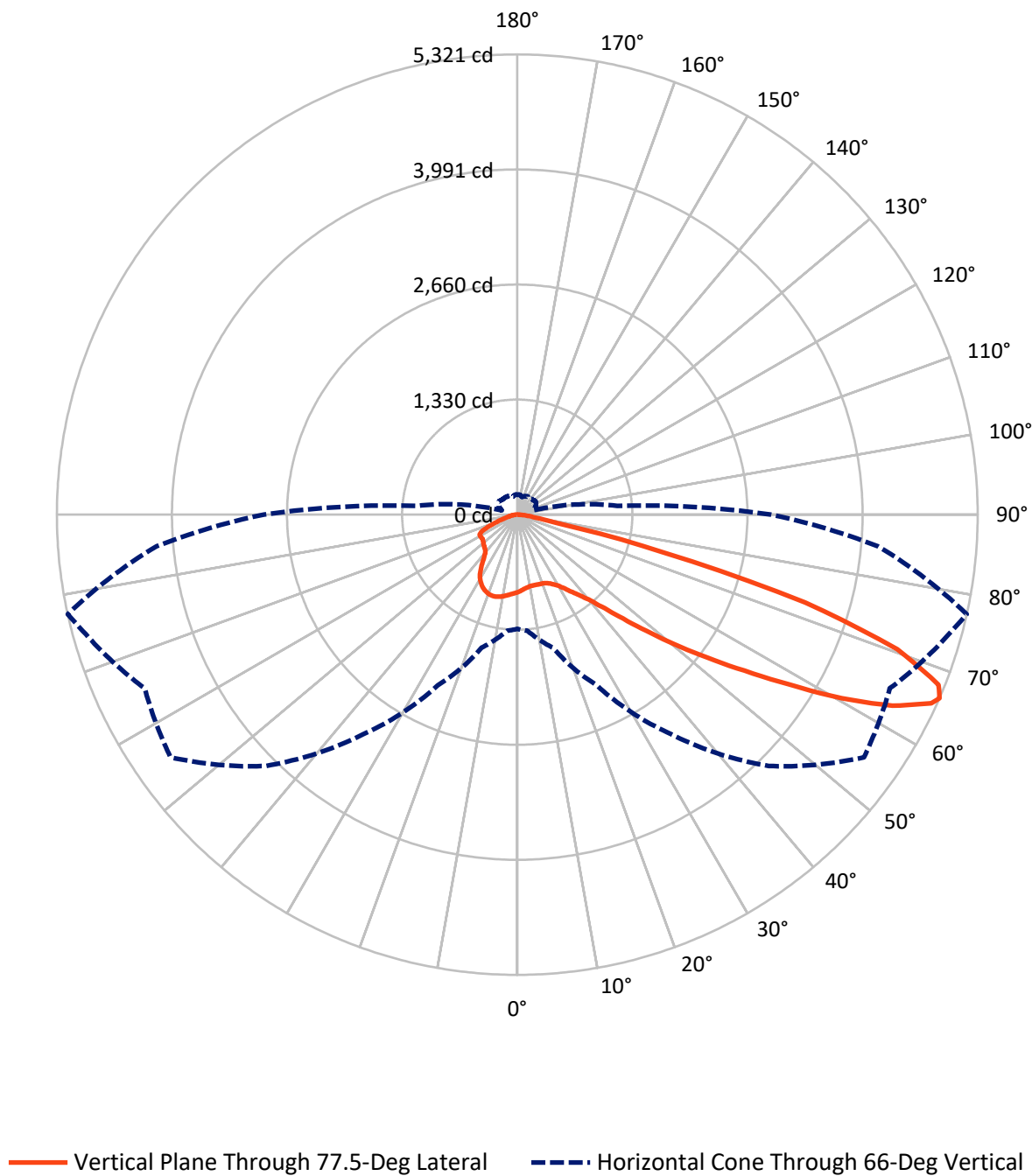


Based on 10 foot mounting height. Maximum calculated value = 11 fc  
Type III - Short - Full Cutoff

REPORT NUMBER: P200039

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P200039

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7030

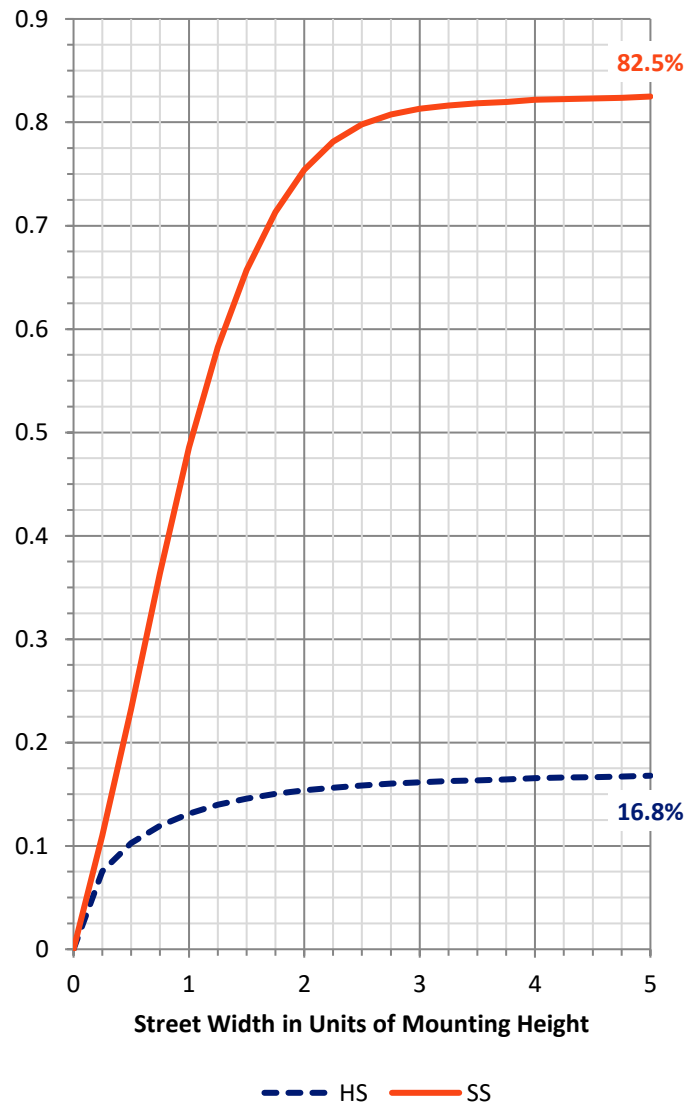
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1073.9   | 0.0    | 1073.9 |
|                    | % Fixture | 17.1     | 0.0    | 17.1   |
| <b>Street Side</b> | Lumens    | 5211.8   | 0.0    | 5211.8 |
|                    | % Fixture | 82.9     | 0.0    | 82.9   |
| <b>Total</b>       | Lumens    | 6285.7   | 0.0    | 6285.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.0   | 1.3       |
| 10°-20°   | 225.8  | 3.6       |
| 20°-30°   | 385.3  | 6.1       |
| 30°-40°   | 616.8  | 9.8       |
| 40°-50°   | 952.9  | 15.2      |
| 50°-60°   | 1351.6 | 21.5      |
| 60°-70°   | 1808.0 | 28.8      |
| 70°-80°   | 785.2  | 12.5      |
| 80°-90°   | 80.1   | 1.3       |
| 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°    | 6285.7 | 100.0     |
| 0°-180°   | 6285.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P200039

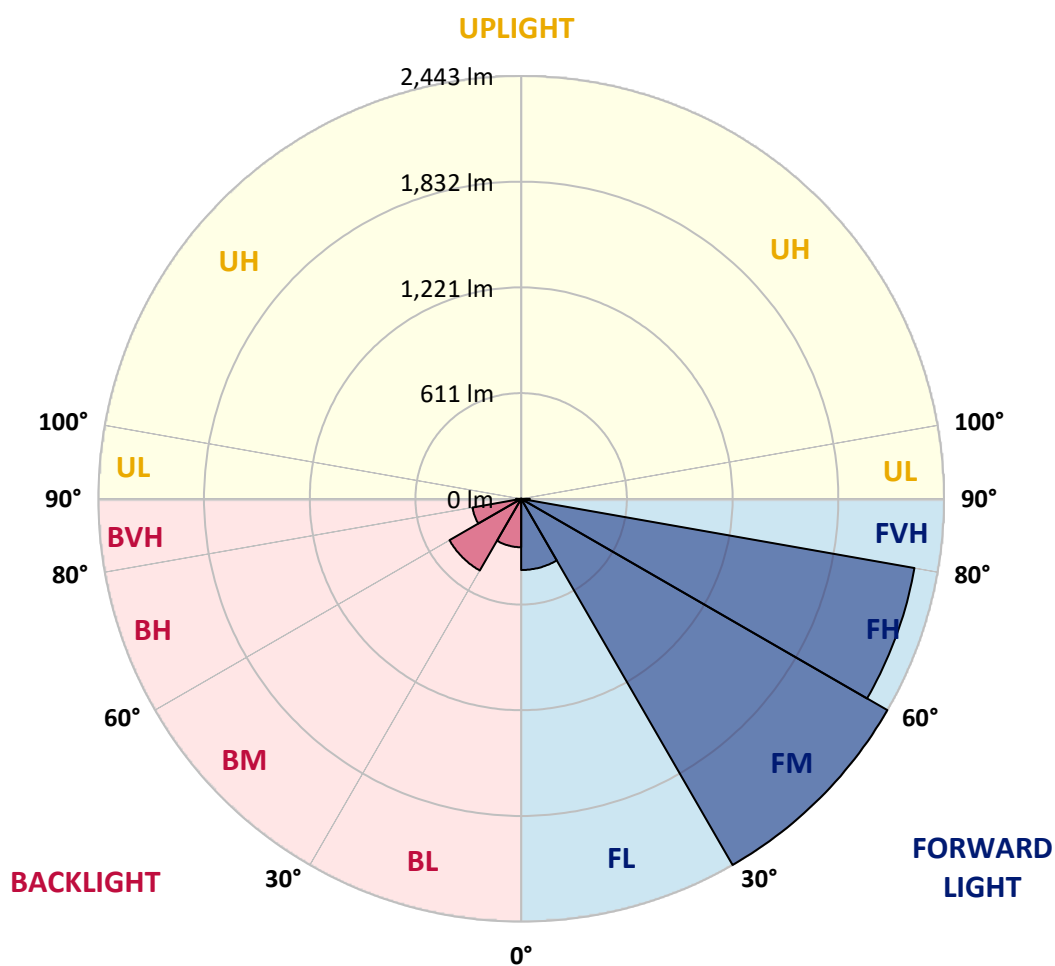
CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 411.4  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 2443.0 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 2307.2 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 50.2   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 279.7  | 4.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 478.3  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 286.0  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.9   | 0.5       |                         |      | 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 III Short





REPORT NUMBER: P200039

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77.5°  | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  | 895.7  |
| 2.5°  | 792.3  | 797.7  | 802.2  | 806.4  | 814.6  | 828.3  | 844.0  | 856.8  | 875.2  | 878.8  | 888.6  |
| 5°    | 719.6  | 719.6  | 723.2  | 729.5  | 740.7  | 761.2  | 782.7  | 811.1  | 851.2  | 860.8  | 886.8  |
| 7.5°  | 684.3  | 684.6  | 686.7  | 692.0  | 701.8  | 720.6  | 743.9  | 777.5  | 831.9  | 847.7  | 892.2  |
| 10°   | 697.3  | 694.4  | 690.0  | 687.2  | 688.8  | 699.7  | 721.9  | 759.5  | 820.0  | 840.2  | 904.0  |
| 12.5° | 770.4  | 764.9  | 749.3  | 728.9  | 709.2  | 701.2  | 714.2  | 750.8  | 815.0  | 838.4  | 919.8  |
| 15°   | 889.8  | 887.4  | 858.7  | 816.1  | 768.6  | 728.9  | 719.9  | 747.6  | 815.5  | 840.5  | 938.5  |
| 17.5° | 1039.5 | 1036.3 | 998.2  | 936.5  | 858.9  | 781.4  | 739.8  | 750.2  | 817.6  | 844.0  | 956.7  |
| 20°   | 1190.7 | 1180.5 | 1139.6 | 1066.0 | 966.4  | 853.0  | 772.8  | 757.0  | 820.3  | 848.0  | 975.6  |
| 22.5° | 1303.5 | 1295.2 | 1258.3 | 1186.8 | 1072.2 | 935.8  | 817.0  | 768.9  | 829.0  | 859.3  | 999.0  |
| 25°   | 1402.7 | 1403.3 | 1366.8 | 1297.6 | 1179.1 | 1023.8 | 874.1  | 800.7  | 850.9  | 882.4  | 1031.2 |
| 27.5° | 1525.4 | 1518.2 | 1484.1 | 1415.5 | 1284.8 | 1112.6 | 943.0  | 844.3  | 883.6  | 915.4  | 1073.4 |
| 30°   | 1672.1 | 1667.1 | 1627.5 | 1549.8 | 1402.2 | 1207.9 | 1021.7 | 895.2  | 925.8  | 958.7  | 1128.5 |
| 32.5° | 1844.7 | 1842.2 | 1801.2 | 1701.1 | 1537.5 | 1320.2 | 1114.0 | 962.2  | 988.7  | 1022.8 | 1207.9 |
| 35°   | 2047.2 | 2047.5 | 1999.1 | 1878.8 | 1685.8 | 1450.9 | 1218.9 | 1048.7 | 1065.3 | 1101.0 | 1302.4 |
| 37.5° | 2172.0 | 2187.1 | 2169.1 | 2046.3 | 1853.6 | 1597.0 | 1355.0 | 1163.3 | 1152.6 | 1188.6 | 1403.7 |
| 40°   | 2198.7 | 2217.1 | 2274.4 | 2212.1 | 2041.3 | 1757.9 | 1475.4 | 1273.5 | 1260.2 | 1304.1 | 1534.0 |
| 42.5° | 2161.2 | 2186.9 | 2308.0 | 2352.0 | 2240.6 | 1956.3 | 1637.7 | 1437.2 | 1420.3 | 1479.4 | 1696.1 |
| 45°   | 2139.0 | 2158.0 | 2298.2 | 2424.7 | 2413.4 | 2180.6 | 1844.1 | 1642.7 | 1636.4 | 1714.0 | 1883.3 |
| 47.5° | 2100.4 | 2117.6 | 2252.4 | 2441.6 | 2514.9 | 2386.1 | 2092.0 | 1893.9 | 1906.1 | 2007.6 | 2094.4 |
| 50°   | 2121.2 | 2128.3 | 2201.3 | 2398.6 | 2544.3 | 2536.7 | 2369.2 | 2184.9 | 2226.6 | 2353.5 | 2333.4 |
| 52.5° | 2118.2 | 2136.6 | 2195.3 | 2327.9 | 2548.3 | 2629.7 | 2642.1 | 2509.5 | 2597.2 | 2742.7 | 2598.7 |
| 55°   | 1712.5 | 1746.3 | 2125.6 | 2310.1 | 2561.9 | 2720.8 | 2885.0 | 2851.7 | 3015.1 | 3184.7 | 2898.1 |
| 57.5° | 1635.3 | 1656.7 | 1866.9 | 2347.4 | 2634.3 | 2894.9 | 3155.3 | 3228.4 | 3501.5 | 3698.5 | 3262.8 |
| 60°   | 1620.1 | 1646.5 | 1864.3 | 2393.3 | 2781.4 | 3178.5 | 3556.0 | 3684.2 | 4093.5 | 4309.0 | 3685.8 |
| 62.5° | 1572.9 | 1601.4 | 1846.7 | 2387.2 | 2990.2 | 3570.8 | 4068.9 | 4168.9 | 4654.8 | 4864.6 | 4039.5 |
| 65°   | 1423.2 | 1450.0 | 1703.9 | 2291.2 | 3131.0 | 3989.6 | 4675.9 | 4613.3 | 5097.9 | 5255.6 | 4215.9 |
| 66°   | 1320.7 | 1346.8 | 1591.3 | 2178.5 | 3098.3 | 4108.3 | 4890.9 | 4750.7 | 5197.1 | 5320.7 | 4181.5 |
| 67.5° | 1133.3 | 1153.8 | 1372.8 | 1925.7 | 2924.6 | 4141.6 | 5071.9 | 4854.1 | 5207.6 | 5251.2 | 3984.4 |
| 70°   | 716.0  | 721.9  | 892.2  | 1329.3 | 2213.8 | 3591.9 | 4796.5 | 4597.5 | 4778.1 | 4659.9 | 3340.3 |
| 72.5° | 310.7  | 308.5  | 428.3  | 676.2  | 1253.3 | 2410.2 | 3879.9 | 3793.5 | 3748.1 | 3478.4 | 2338.2 |
| 75°   | 172.8  | 175.3  | 222.5  | 313.9  | 509.3  | 1183.9 | 2538.1 | 2428.9 | 2050.8 | 1749.9 | 1060.3 |
| 77.5° | 138.6  | 141.9  | 184.4  | 222.8  | 228.7  | 412.8  | 1187.6 | 966.4  | 581.8  | 466.9  | 294.7  |
| 80°   | 109.6  | 115.5  | 160.9  | 173.4  | 154.2  | 170.2  | 383.7  | 306.8  | 230.2  | 211.2  | 152.6  |
| 82.5° | 86.8   | 90.9   | 138.1  | 131.2  | 107.8  | 114.6  | 183.9  | 179.0  | 149.6  | 136.3  | 88.2   |
| 85°   | 62.4   | 70.2   | 113.4  | 98.9   | 70.7   | 77.2   | 122.1  | 117.0  | 85.9   | 70.2   | 38.9   |
| 87.5° | 25.5   | 33.3   | 80.2   | 65.7   | 39.6   | 35.9   | 60.8   | 57.4   | 40.7   | 29.7   | 19.3   |
| 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: P200039

CATALOG NUMBER: GAP-AF-01-LED-U-T3R-7030

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 895.7  | 895.7  | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 |
| 2.5°  | 894.9  | 901.9  | 911.2 | 916.8 | 919.8 | 921.9 | 925.1 | 924.9 | 925.8 | 926.1 | 927.2 |
| 5°    | 900.9  | 912.7  | 926.1 | 929.6 | 929.6 | 926.3 | 923.0 | 917.7 | 915.6 | 915.0 | 915.6 |
| 7.5°  | 916.2  | 929.2  | 940.8 | 936.7 | 927.8 | 914.7 | 897.8 | 883.0 | 874.9 | 872.3 | 871.7 |
| 10°   | 935.8  | 951.5  | 956.3 | 940.6 | 914.5 | 883.0 | 849.4 | 825.0 | 811.1 | 807.2 | 806.0 |
| 12.5° | 959.7  | 974.5  | 967.9 | 934.6 | 886.2 | 835.4 | 789.1 | 750.2 | 721.1 | 712.0 | 711.3 |
| 15°   | 985.7  | 997.3  | 974.5 | 916.2 | 844.0 | 769.1 | 686.7 | 619.5 | 583.3 | 571.8 | 570.9 |
| 17.5° | 1010.1 | 1016.0 | 970.6 | 884.1 | 782.0 | 660.8 | 551.2 | 499.6 | 487.1 | 490.0 | 490.7 |
| 20°   | 1030.9 | 1030.9 | 957.5 | 838.1 | 684.3 | 518.0 | 448.7 | 447.9 | 456.8 | 465.7 | 467.5 |
| 22.5° | 1053.7 | 1040.0 | 934.6 | 773.1 | 545.9 | 423.8 | 413.8 | 422.1 | 432.1 | 442.0 | 443.4 |
| 25°   | 1082.0 | 1047.5 | 902.9 | 674.4 | 429.2 | 384.9 | 388.8 | 395.6 | 400.7 | 406.9 | 407.7 |
| 27.5° | 1113.5 | 1057.0 | 861.0 | 538.7 | 372.5 | 360.5 | 363.5 | 365.9 | 365.3 | 367.6 | 368.3 |
| 30°   | 1151.1 | 1068.0 | 803.7 | 421.2 | 349.0 | 339.8 | 334.5 | 332.3 | 332.3 | 336.2 | 337.7 |
| 32.5° | 1201.7 | 1084.3 | 721.4 | 360.9 | 337.7 | 324.9 | 307.7 | 299.9 | 302.9 | 316.0 | 318.9 |
| 35°   | 1257.1 | 1101.9 | 610.0 | 340.4 | 335.3 | 318.1 | 291.4 | 277.1 | 277.4 | 289.5 | 293.5 |
| 37.5° | 1317.7 | 1124.2 | 488.0 | 336.5 | 340.7 | 318.4 | 282.8 | 263.1 | 255.1 | 255.1 | 256.6 |
| 40°   | 1395.2 | 1147.0 | 395.0 | 339.1 | 352.0 | 322.0 | 278.3 | 252.2 | 229.6 | 230.2 | 231.4 |
| 42.5° | 1496.3 | 1166.6 | 345.2 | 344.8 | 365.6 | 326.6 | 277.9 | 237.6 | 218.0 | 231.4 | 243.5 |
| 45°   | 1608.6 | 1176.4 | 323.1 | 349.8 | 376.6 | 329.6 | 273.2 | 235.2 | 219.5 | 259.3 | 282.4 |
| 47.5° | 1737.8 | 1170.7 | 311.0 | 351.6 | 379.2 | 329.6 | 267.9 | 240.9 | 229.9 | 300.3 | 327.3 |
| 50°   | 1879.4 | 1154.5 | 299.1 | 348.1 | 378.4 | 329.1 | 272.9 | 246.5 | 233.7 | 307.3 | 326.1 |
| 52.5° | 2046.0 | 1140.7 | 286.6 | 340.4 | 372.1 | 325.8 | 278.8 | 244.0 | 221.6 | 279.4 | 292.5 |
| 55°   | 2236.1 | 1144.6 | 272.6 | 329.4 | 362.3 | 319.6 | 276.8 | 234.6 | 208.8 | 246.2 | 254.2 |
| 57.5° | 2479.0 | 1190.7 | 256.0 | 315.4 | 349.0 | 309.2 | 269.4 | 230.2 | 205.0 | 223.3 | 228.2 |
| 60°   | 2750.2 | 1270.8 | 235.2 | 301.4 | 332.3 | 292.5 | 263.8 | 232.2 | 206.7 | 221.6 | 224.0 |
| 62.5° | 2949.1 | 1317.4 | 217.4 | 280.9 | 309.8 | 274.1 | 256.6 | 234.9 | 211.4 | 227.8 | 227.2 |
| 65°   | 3003.2 | 1240.8 | 195.1 | 251.0 | 279.1 | 254.8 | 247.7 | 237.8 | 213.5 | 232.8 | 230.2 |
| 66°   | 2927.5 | 1158.2 | 185.3 | 237.0 | 263.8 | 245.3 | 243.2 | 237.6 | 212.6 | 233.5 | 229.0 |
| 67.5° | 2743.6 | 989.1  | 168.4 | 216.6 | 239.1 | 231.1 | 236.1 | 234.9 | 210.4 | 232.8 | 226.6 |
| 70°   | 2237.5 | 674.7  | 144.0 | 180.3 | 199.0 | 203.4 | 222.5 | 225.4 | 202.5 | 222.5 | 208.8 |
| 72.5° | 1563.4 | 411.1  | 127.4 | 139.9 | 160.9 | 173.4 | 203.8 | 212.4 | 192.2 | 194.3 | 181.2 |
| 75°   | 755.5  | 218.3  | 115.5 | 108.3 | 125.0 | 145.0 | 181.2 | 194.5 | 175.8 | 162.5 | 157.7 |
| 77.5° | 235.6  | 133.4  | 98.0  | 87.3  | 98.0  | 117.0 | 151.5 | 170.5 | 156.6 | 136.0 | 134.3 |
| 80°   | 126.5  | 98.0   | 75.4  | 70.2  | 77.5  | 91.8  | 119.1 | 142.2 | 134.5 | 122.1 | 109.0 |
| 82.5° | 83.5   | 63.6   | 55.8  | 54.3  | 59.1  | 70.2  | 88.5  | 117.9 | 117.9 | 104.6 | 76.1  |
| 85°   | 43.0   | 38.9   | 38.4  | 38.4  | 41.3  | 46.7  | 60.3  | 90.9  | 96.8  | 55.2  | 45.8  |
| 87.5° | 21.5   | 22.3   | 20.8  | 21.7  | 23.2  | 22.8  | 28.9  | 45.8  | 54.6  | 33.6  | 28.0  |
| 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)