

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: P200173

Luminaire Tested: **GAP-AF-01-LED-U-T2-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5155.7 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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



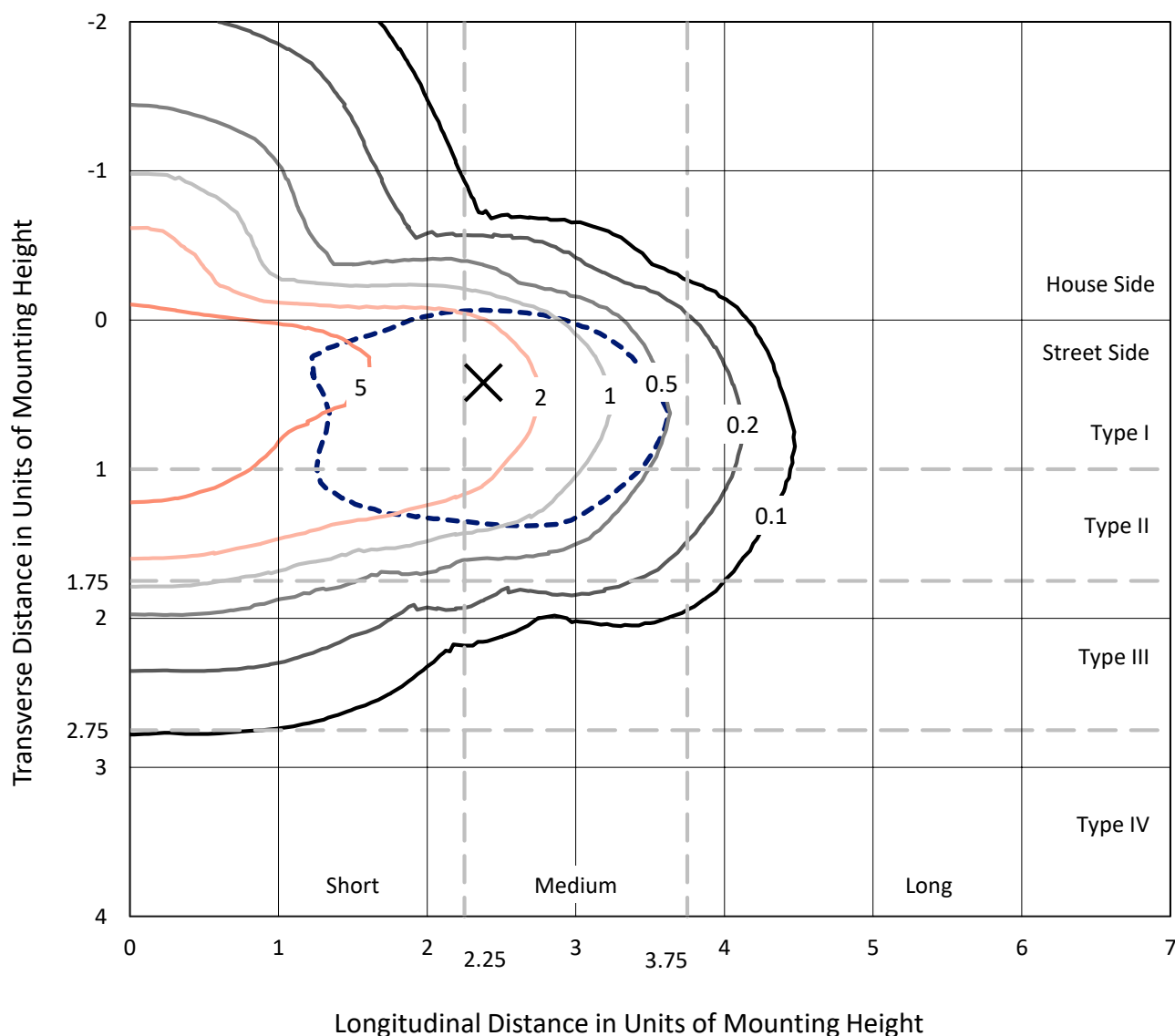
REPORT NUMBER: P200173

CATALOG NUMBER: GAP-AF-01-LED-U-T2-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

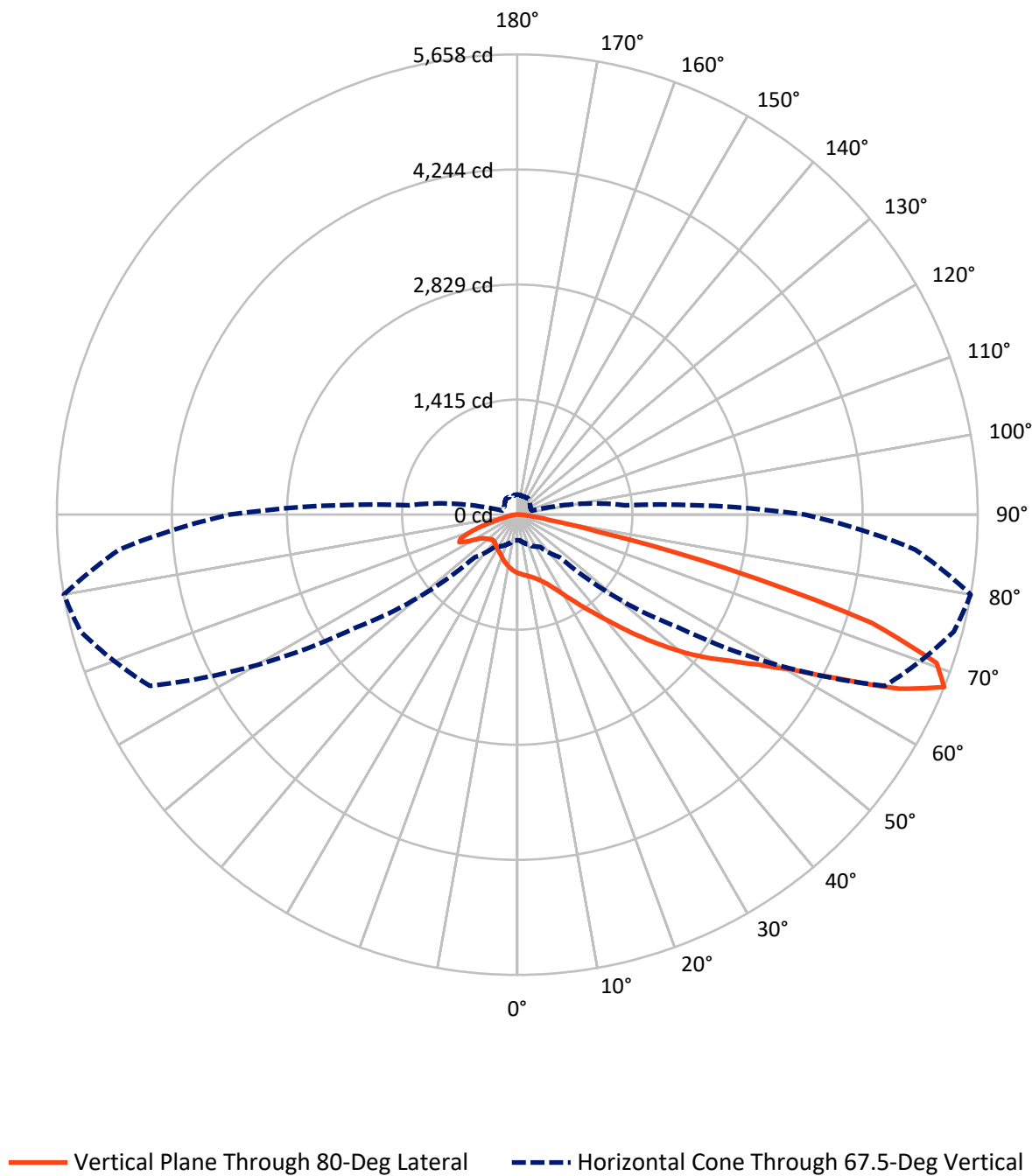


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
Type II - Medium - Full Cutoff

REPORT NUMBER: P200173

CATALOG NUMBER: GAP-AF-01-LED-U-T2-800

## Luminous Intensity Polar Plot



REPORT NUMBER: P200173

CATALOG NUMBER: GAP-AF-01-LED-U-T2-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 949.5    | 0.0    | 949.5  |
|                    | % Fixture | 18.4     | 0.0    | 18.4   |
| <b>Street Side</b> | Lumens    | 4206.2   | 0.0    | 4206.2 |
|                    | % Fixture | 81.6     | 0.0    | 81.6   |
| <b>Total</b>       | Lumens    | 5155.7   | 0.0    | 5155.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.1   | 1.3       |
| 10°-20°   | 190.3  | 3.7       |
| 20°-30°   | 315.0  | 6.1       |
| 30°-40°   | 515.3  | 10.0      |
| 40°-50°   | 832.1  | 16.1      |
| 50°-60°   | 1201.3 | 23.3      |
| 60°-70°   | 1325.7 | 25.7      |
| 70°-80°   | 611.0  | 11.9      |
| 80°-90°   | 98.8   | 1.9       |
| 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°    | 5155.7 | 100.0     |
| 0°-180°   | 5155.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P200173

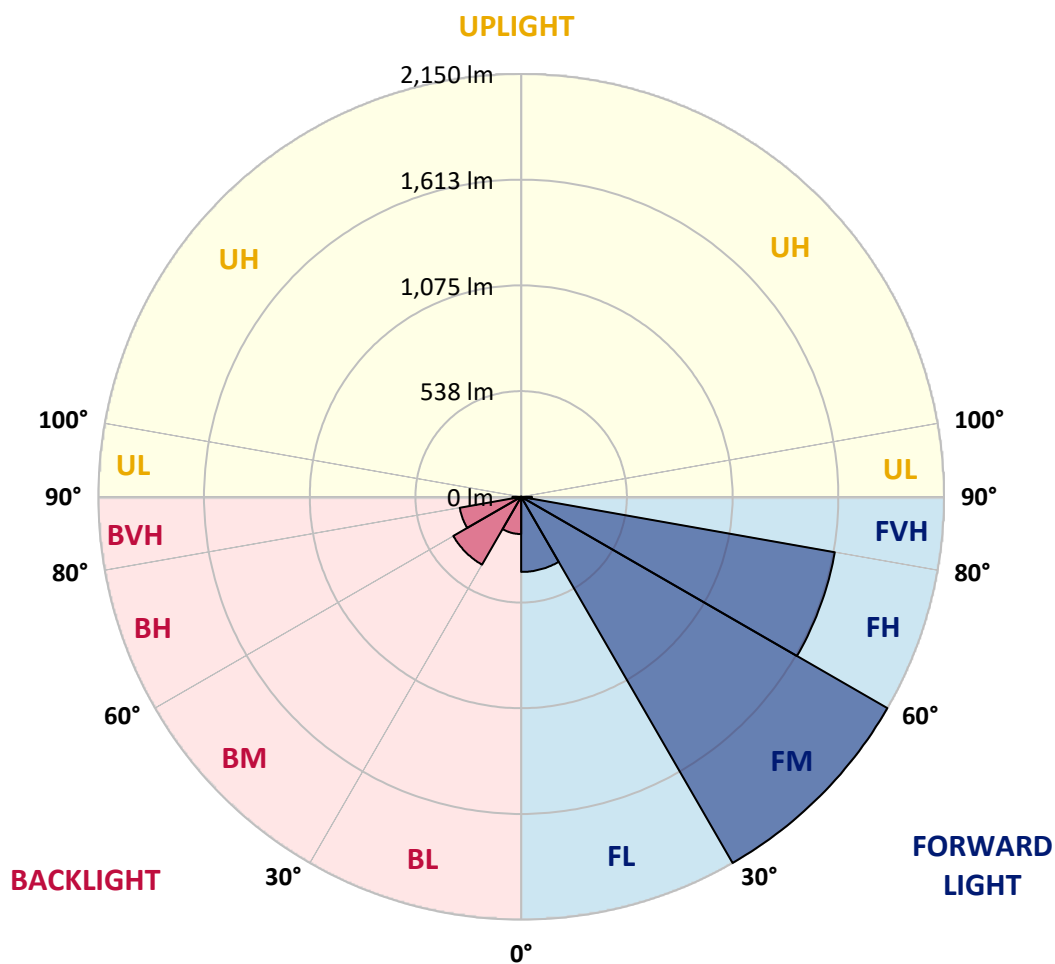
CATALOG NUMBER: GAP-AF-01-LED-U-T2-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 382.0  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 2150.3 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 1619.5 | 31.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 54.3   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 189.4  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 398.4  | 7.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 317.2  | 6.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 44.5   | 0.9       |                         |      | G1/100  |
| 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 Medium





REPORT NUMBER: P200173

CATALOG NUMBER: GAP-AF-01-LED-U-T2-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 80°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  | 716.3  |
| 2.5°  | 783.6  | 779.0  | 779.7  | 778.5  | 774.7  | 768.0  | 761.0  | 748.0  | 734.6  | 727.4  | 721.9  |
| 5°    | 849.0  | 847.7  | 846.0  | 841.9  | 832.3  | 818.6  | 801.6  | 778.7  | 754.1  | 741.1  | 728.8  |
| 7.5°  | 898.0  | 897.2  | 895.0  | 892.4  | 883.0  | 866.5  | 840.9  | 808.4  | 772.6  | 754.8  | 735.6  |
| 10°   | 902.0  | 903.4  | 905.1  | 912.0  | 913.2  | 904.4  | 878.2  | 838.8  | 791.9  | 769.1  | 744.4  |
| 12.5° | 867.6  | 870.3  | 877.2  | 894.7  | 913.2  | 924.1  | 910.7  | 870.8  | 814.5  | 786.9  | 755.7  |
| 15°   | 821.8  | 823.4  | 831.8  | 855.9  | 889.1  | 922.9  | 935.6  | 906.1  | 843.7  | 809.7  | 772.3  |
| 17.5° | 802.3  | 803.1  | 808.9  | 824.9  | 855.9  | 904.1  | 949.5  | 944.5  | 879.4  | 838.1  | 792.9  |
| 20°   | 792.4  | 794.2  | 802.6  | 818.3  | 837.9  | 879.9  | 951.5  | 985.8  | 922.1  | 873.6  | 818.8  |
| 22.5° | 820.6  | 819.8  | 822.9  | 830.7  | 847.2  | 872.6  | 950.0  | 1028.5 | 976.4  | 919.3  | 852.5  |
| 25°   | 886.3  | 889.1  | 883.8  | 874.9  | 880.2  | 898.0  | 958.2  | 1074.7 | 1044.4 | 977.9  | 896.7  |
| 27.5° | 980.0  | 977.2  | 969.3  | 948.5  | 937.6  | 945.2  | 985.1  | 1124.4 | 1129.0 | 1055.1 | 955.1  |
| 30°   | 1073.4 | 1071.1 | 1063.5 | 1038.1 | 1015.8 | 1009.4 | 1037.4 | 1181.5 | 1229.8 | 1147.8 | 1026.7 |
| 32.5° | 1170.4 | 1167.8 | 1160.7 | 1135.4 | 1108.5 | 1093.7 | 1111.7 | 1247.5 | 1348.6 | 1258.4 | 1110.9 |
| 35°   | 1289.9 | 1285.0 | 1270.1 | 1234.8 | 1208.4 | 1197.0 | 1205.3 | 1330.6 | 1485.6 | 1389.4 | 1213.2 |
| 37.5° | 1402.4 | 1409.7 | 1394.5 | 1345.7 | 1311.5 | 1307.4 | 1316.8 | 1431.8 | 1633.3 | 1535.9 | 1330.8 |
| 40°   | 1515.3 | 1516.5 | 1502.8 | 1463.0 | 1427.7 | 1421.1 | 1444.7 | 1554.7 | 1807.7 | 1711.0 | 1473.7 |
| 42.5° | 1632.0 | 1634.6 | 1611.5 | 1574.7 | 1548.7 | 1550.1 | 1577.0 | 1698.5 | 2007.7 | 1917.3 | 1638.2 |
| 45°   | 1770.4 | 1774.2 | 1748.8 | 1700.6 | 1676.9 | 1724.4 | 1713.2 | 1859.9 | 2227.0 | 2151.9 | 1827.0 |
| 47.5° | 1915.1 | 1920.9 | 1901.6 | 1856.5 | 1827.0 | 1892.3 | 1849.6 | 2038.9 | 2463.1 | 2403.4 | 2034.3 |
| 50°   | 1994.0 | 2002.3 | 2021.1 | 2017.9 | 2011.5 | 2000.6 | 2001.6 | 2230.9 | 2706.4 | 2665.3 | 2247.5 |
| 52.5° | 1951.6 | 1951.4 | 2019.9 | 2103.1 | 2192.0 | 2198.5 | 2186.9 | 2433.1 | 2933.9 | 2921.4 | 2448.3 |
| 55°   | 1757.7 | 1770.9 | 1874.7 | 2035.9 | 2278.5 | 2430.0 | 2464.6 | 2664.8 | 3157.2 | 3171.7 | 2652.1 |
| 57.5° | 1434.8 | 1445.7 | 1585.9 | 1810.5 | 2161.8 | 2567.6 | 2859.6 | 3001.6 | 3407.0 | 3474.6 | 2923.5 |
| 60°   | 973.1  | 986.3  | 1134.9 | 1404.6 | 1847.6 | 2491.0 | 3235.4 | 3602.7 | 3705.9 | 3859.6 | 3304.2 |
| 62.5° | 571.8  | 583.8  | 704.8  | 886.1  | 1300.8 | 2134.9 | 3400.4 | 4457.8 | 4180.9 | 4440.5 | 3885.0 |
| 65°   | 393.6  | 401.8  | 460.6  | 551.6  | 747.5  | 1437.9 | 3195.8 | 5048.2 | 4911.6 | 5160.4 | 4558.3 |
| 67.5° | 316.8  | 315.8  | 362.4  | 424.4  | 481.2  | 741.4  | 2416.6 | 4981.5 | 5554.3 | 5658.1 | 4907.8 |
| 70°   | 261.0  | 259.9  | 291.6  | 342.9  | 384.5  | 417.6  | 1316.3 | 4203.7 | 5423.3 | 5465.4 | 4586.0 |
| 72.5° | 218.3  | 219.3  | 239.6  | 277.6  | 315.5  | 314.5  | 578.5  | 2957.2 | 4266.4 | 4557.8 | 3655.7 |
| 75°   | 184.2  | 184.7  | 198.2  | 225.2  | 256.1  | 253.3  | 313.7  | 1602.1 | 2480.0 | 2682.9 | 2026.5 |
| 77.5° | 156.8  | 157.3  | 166.0  | 181.0  | 203.1  | 202.0  | 228.9  | 692.1  | 1034.5 | 1021.8 | 693.2  |
| 80°   | 139.8  | 139.8  | 143.9  | 146.7  | 158.9  | 154.4  | 169.8  | 332.5  | 437.3  | 403.9  | 276.7  |
| 82.5° | 109.7  | 110.2  | 135.0  | 134.0  | 125.1  | 119.3  | 119.3  | 196.0  | 231.7  | 214.2  | 161.9  |
| 85°   | 61.7   | 61.4   | 87.1   | 105.1  | 110.2  | 84.0   | 83.3   | 109.7  | 126.1  | 111.2  | 78.5   |
| 87.5° | 26.4   | 26.9   | 40.4   | 46.7   | 62.4   | 52.3   | 51.6   | 56.6   | 64.2   | 55.5   | 36.3   |
| 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: P200173

CATALOG NUMBER: GAP-AF-01-LED-U-T2-800

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 716.3  | 716.3  | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 |
| 2.5°  | 716.6  | 709.9  | 695.5 | 677.4 | 661.2 | 650.5 | 640.9 | 627.0 | 627.7 | 618.1 | 610.9 |
| 5°    | 716.1  | 702.4  | 668.8 | 628.9 | 590.7 | 562.9 | 542.2 | 523.3 | 518.8 | 509.9 | 504.6 |
| 7.5°  | 716.6  | 694.2  | 637.8 | 574.2 | 526.7 | 491.6 | 473.8 | 464.0 | 461.7 | 458.7 | 458.9 |
| 10°   | 718.3  | 686.8  | 603.8 | 522.8 | 473.1 | 450.0 | 445.7 | 448.8 | 452.3 | 453.3 | 453.6 |
| 12.5° | 722.4  | 680.3  | 566.5 | 477.2 | 439.6 | 432.5 | 439.9 | 450.3 | 457.2 | 460.4 | 460.1 |
| 15°   | 731.5  | 675.1  | 530.7 | 441.4 | 421.0 | 424.9 | 438.6 | 453.3 | 463.2 | 467.8 | 468.0 |
| 17.5° | 741.4  | 667.8  | 493.9 | 414.0 | 407.3 | 417.1 | 434.0 | 451.3 | 463.5 | 468.5 | 469.5 |
| 20°   | 754.3  | 658.7  | 455.3 | 393.4 | 394.4 | 405.4 | 421.4 | 438.6 | 452.0 | 456.3 | 458.4 |
| 22.5° | 771.3  | 648.8  | 421.6 | 376.7 | 379.7 | 388.1 | 400.5 | 415.5 | 427.2 | 429.2 | 431.0 |
| 25°   | 794.2  | 638.1  | 394.7 | 361.4 | 362.7 | 367.5 | 375.9 | 384.8 | 392.9 | 390.7 | 392.4 |
| 27.5° | 824.9  | 628.9  | 374.6 | 347.5 | 345.1 | 346.2 | 350.6 | 353.3 | 357.6 | 351.3 | 352.0 |
| 30°   | 860.9  | 619.1  | 359.2 | 335.3 | 329.0 | 327.1 | 328.2 | 329.7 | 333.0 | 324.4 | 323.2 |
| 32.5° | 902.9  | 607.1  | 344.7 | 324.6 | 315.8 | 312.2 | 312.7 | 316.8 | 329.5 | 324.2 | 321.3 |
| 35°   | 951.5  | 593.7  | 329.5 | 312.9 | 306.9 | 301.8 | 301.3 | 313.9 | 351.8 | 348.5 | 346.0 |
| 37.5° | 1008.6 | 580.2  | 314.3 | 299.7 | 300.2 | 294.7 | 292.9 | 307.4 | 356.1 | 343.2 | 341.4 |
| 40°   | 1081.3 | 573.2  | 301.3 | 285.8 | 292.2 | 291.3 | 287.9 | 295.2 | 327.7 | 304.1 | 301.1 |
| 42.5° | 1171.1 | 574.2  | 291.6 | 270.8 | 282.5 | 290.6 | 285.0 | 285.3 | 297.0 | 279.2 | 276.4 |
| 45°   | 1282.1 | 586.0  | 284.8 | 258.9 | 271.6 | 289.9 | 284.0 | 280.0 | 281.0 | 271.6 | 270.1 |
| 47.5° | 1411.5 | 610.7  | 280.0 | 249.0 | 261.2 | 287.0 | 283.8 | 278.4 | 276.2 | 271.1 | 269.9 |
| 50°   | 1555.4 | 646.5  | 276.4 | 239.6 | 251.7 | 282.5 | 284.0 | 276.9 | 274.4 | 272.3 | 271.6 |
| 52.5° | 1696.8 | 687.3  | 271.1 | 231.5 | 244.4 | 276.9 | 284.8 | 275.4 | 272.6 | 271.1 | 270.4 |
| 55°   | 1854.4 | 738.4  | 263.0 | 224.6 | 238.3 | 269.9 | 284.8 | 273.1 | 270.1 | 270.4 | 270.1 |
| 57.5° | 2067.4 | 820.8  | 253.3 | 218.8 | 231.0 | 261.2 | 280.0 | 270.6 | 266.8 | 267.0 | 267.3 |
| 60°   | 2400.0 | 966.3  | 241.6 | 213.0 | 221.9 | 251.0 | 273.3 | 264.9 | 261.2 | 262.2 | 262.5 |
| 62.5° | 2889.4 | 1179.8 | 226.4 | 204.3 | 212.2 | 240.1 | 264.2 | 257.9 | 254.1 | 256.7 | 256.7 |
| 65°   | 3398.1 | 1368.1 | 207.7 | 193.4 | 202.0 | 228.2 | 252.8 | 249.0 | 245.2 | 251.0 | 250.7 |
| 67.5° | 3534.9 | 1325.9 | 188.8 | 181.5 | 191.9 | 215.0 | 239.1 | 237.0 | 235.1 | 245.2 | 244.7 |
| 70°   | 3140.3 | 1064.5 | 171.5 | 169.3 | 180.8 | 200.8 | 224.3 | 224.3 | 223.1 | 230.7 | 228.9 |
| 72.5° | 2392.5 | 754.8  | 155.1 | 156.3 | 168.1 | 185.3 | 208.4 | 210.1 | 208.2 | 212.0 | 210.4 |
| 75°   | 1280.7 | 432.0  | 138.6 | 142.1 | 152.3 | 169.5 | 190.6 | 192.4 | 191.1 | 190.9 | 191.6 |
| 77.5° | 425.6  | 211.1  | 121.3 | 126.9 | 135.7 | 153.3 | 172.1 | 174.9 | 171.9 | 171.3 | 171.0 |
| 80°   | 189.6  | 132.8  | 102.3 | 109.7 | 117.5 | 134.8 | 152.5 | 154.9 | 151.5 | 156.1 | 150.3 |
| 82.5° | 121.8  | 87.4   | 81.9  | 90.1  | 97.7  | 116.2 | 133.0 | 133.5 | 130.4 | 151.5 | 129.2 |
| 85°   | 59.1   | 54.1   | 61.7  | 69.0  | 75.6  | 91.3  | 110.2 | 110.4 | 102.8 | 93.7  | 90.3  |
| 87.5° | 29.5   | 31.5   | 41.1  | 47.7  | 51.0  | 62.7  | 80.2  | 78.7  | 75.4  | 68.5  | 63.2  |
| 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)