

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: P200637

Luminaire Tested: **GAP-AF-01-LED-U-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

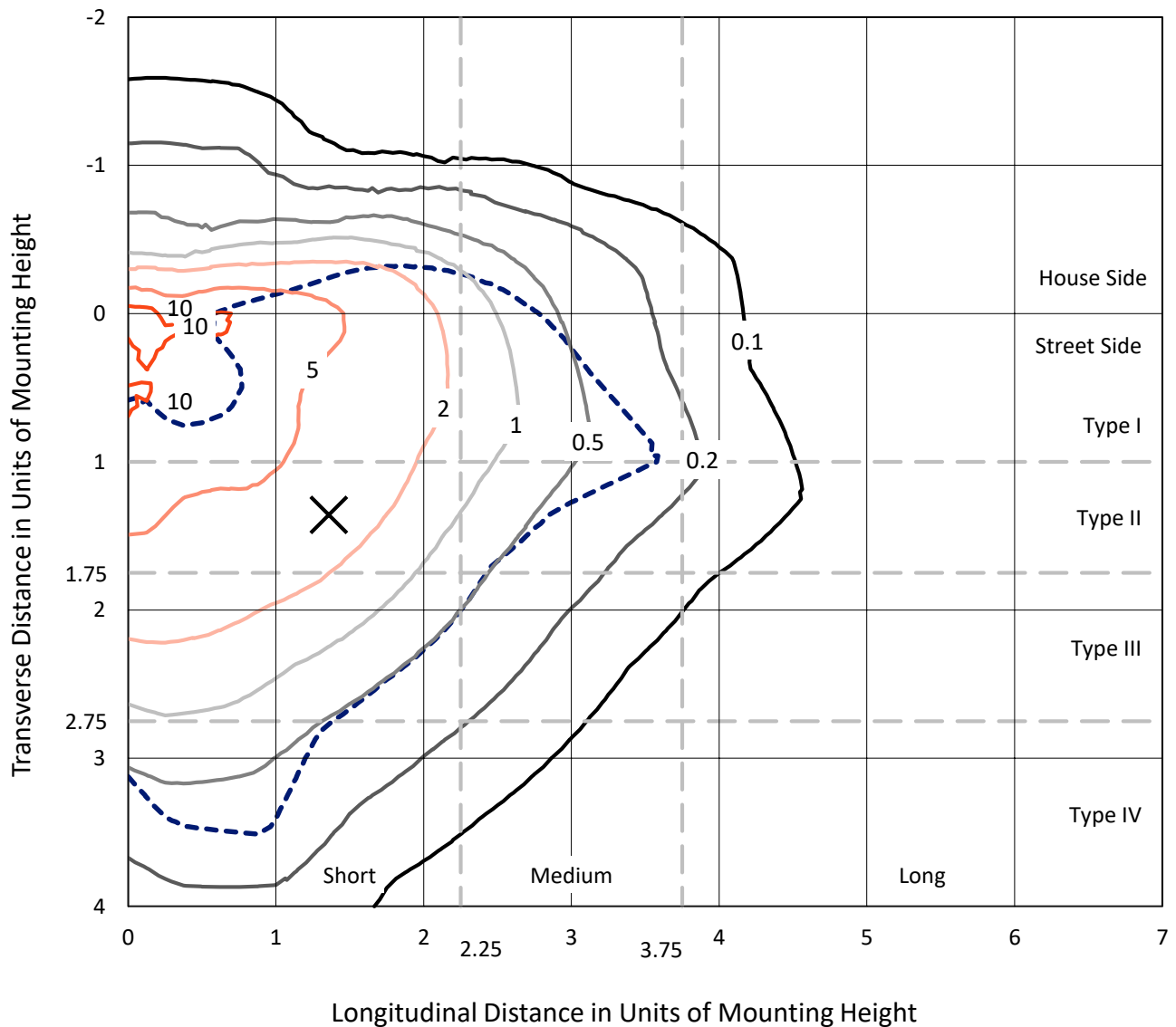
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

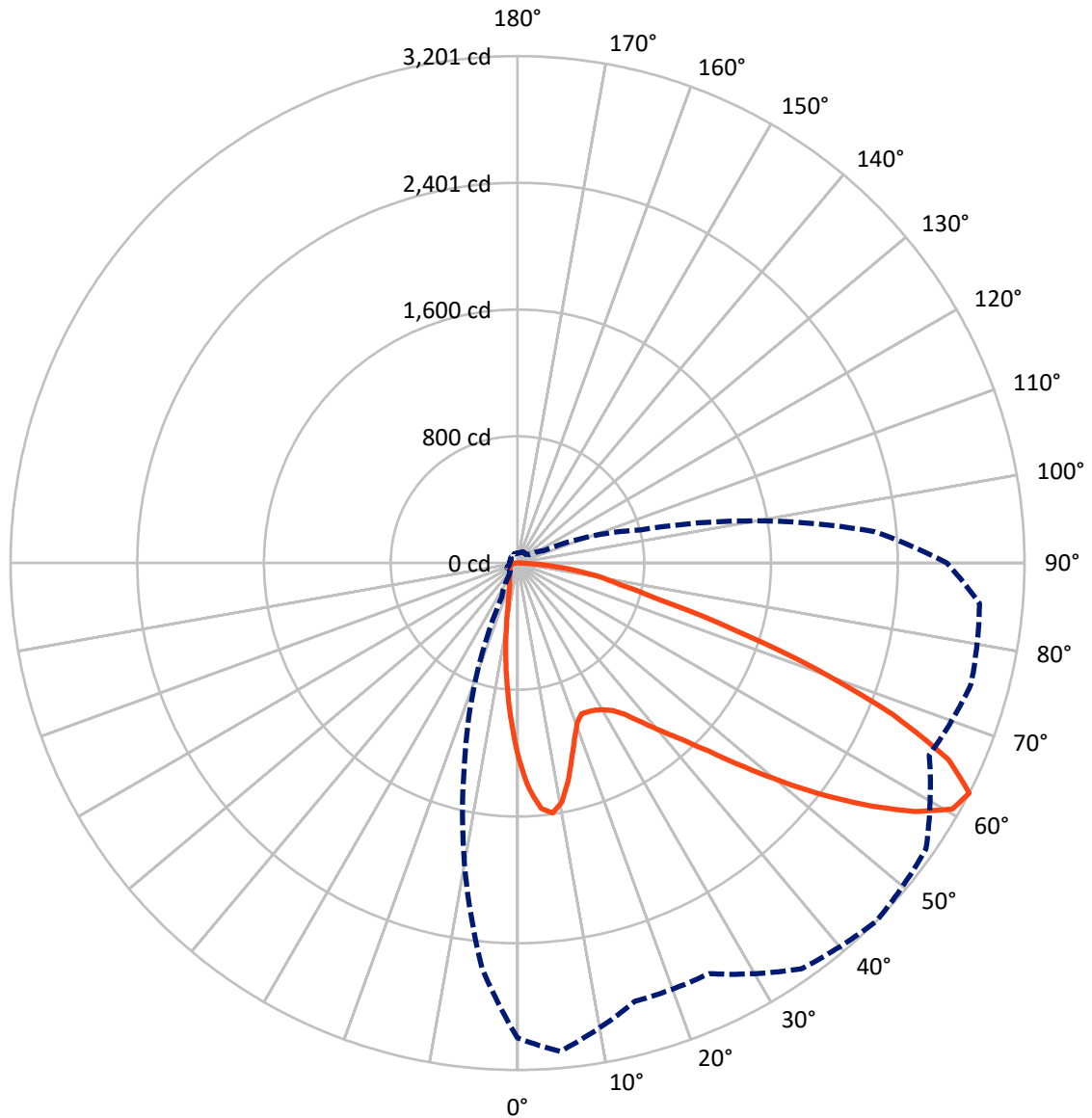
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 609.7 | 0.0 | 609.7 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 3074.3 | 0.0 | 3074.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 3684.0 | 0.0 | 3684.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.6 | 2.5 |
| 10°-20° | 166.1 | 4.5 |
| 20°-30° | 242.2 | 6.6 |
| 30°-40° | 373.1 | 10.1 |
| 40°-50° | 549.1 | 14.9 |
| 50°-60° | 805.4 | 21.9 |
| 60°-70° | 900.3 | 24.4 |
| 70°-80° | 440.8 | 12.0 |
| 80°-90° | 116.4 | 3.2 |
| 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° | 3684.0 | 100.0 |
| 0°-180° | 3684.0 | 100.0 |



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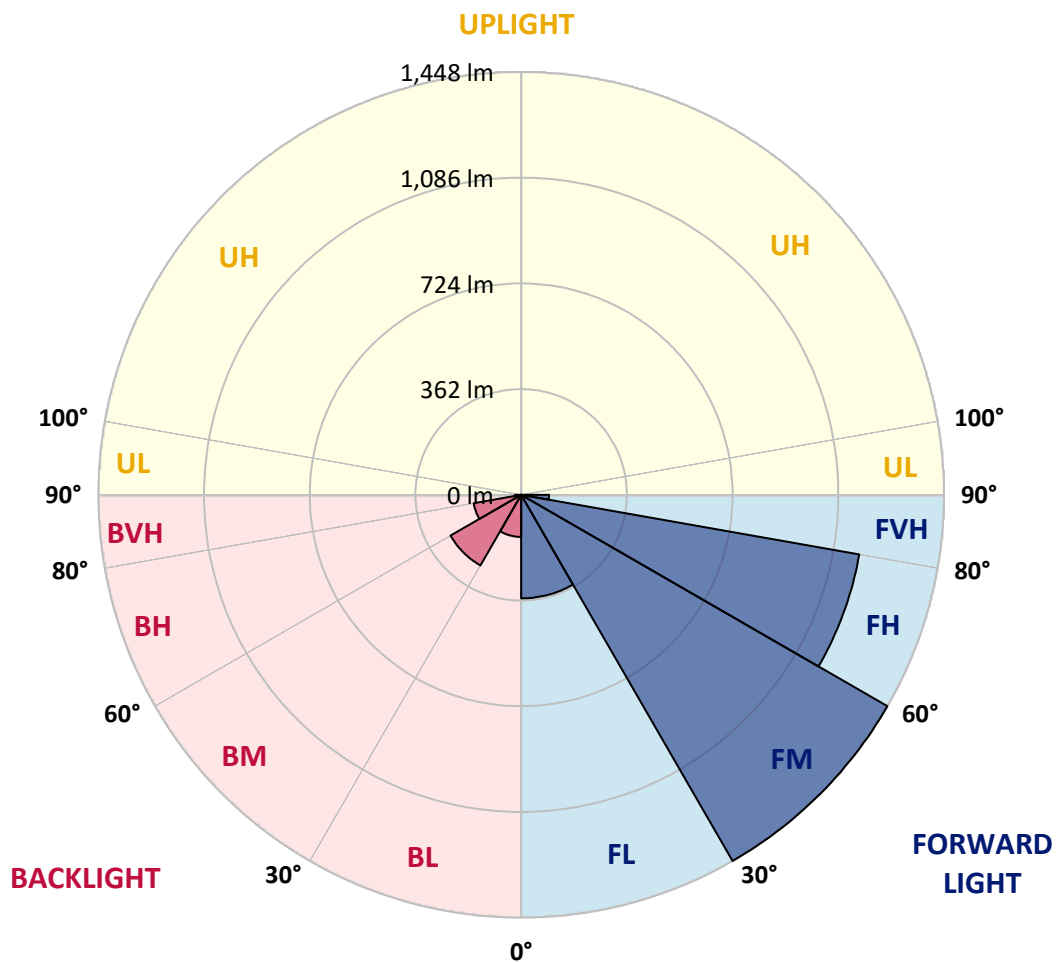
CATALOG NUMBER: GAP-AF-01-LED-U-SLL-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 354.8 | 9.6 | | | |
| FM | (30°-60°) | 1448.2 | 39.3 | | | |
| FH | (60°-80°) | 1175.8 | 31.9 | | | G1/1800 |
| FVH | (80°-90°) | 95.6 | 2.6 | | | G1/100 |
| BL | (0°-30°) | 144.2 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 279.3 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 165.3 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.8 | 0.6 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 |
| 2.5° | 1293.3 | 1313.9 | 1354.2 | 1384.4 | 1421.0 | 1429.5 | 1441.3 | 1429.8 | 1409.3 | 1382.2 | 1373.3 |
| 5° | 1216.1 | 1260.2 | 1358.1 | 1444.1 | 1520.7 | 1556.3 | 1566.2 | 1536.9 | 1477.5 | 1399.6 | 1352.0 |
| 7.5° | 1092.4 | 1155.1 | 1287.6 | 1414.4 | 1527.2 | 1593.8 | 1592.2 | 1523.9 | 1414.8 | 1287.8 | 1211.4 |
| 10° | 985.6 | 1057.3 | 1209.2 | 1351.0 | 1470.7 | 1535.3 | 1510.4 | 1423.1 | 1292.9 | 1146.6 | 1063.8 |
| 12.5° | 925.9 | 996.2 | 1150.3 | 1292.6 | 1392.7 | 1415.0 | 1395.9 | 1310.5 | 1187.7 | 1039.9 | 967.4 |
| 15° | 915.6 | 992.7 | 1126.8 | 1242.6 | 1298.7 | 1279.3 | 1256.6 | 1218.3 | 1131.7 | 1005.5 | 929.9 |
| 17.5° | 960.3 | 1045.4 | 1153.7 | 1207.8 | 1198.3 | 1164.5 | 1158.0 | 1162.2 | 1141.4 | 1043.8 | 956.7 |
| 20° | 1046.2 | 1148.3 | 1217.9 | 1191.4 | 1121.9 | 1075.4 | 1077.0 | 1142.0 | 1203.7 | 1140.8 | 1041.3 |
| 22.5° | 1166.7 | 1283.1 | 1310.5 | 1200.1 | 1089.7 | 1034.4 | 1047.8 | 1153.1 | 1303.2 | 1282.5 | 1155.5 |
| 25° | 1322.6 | 1428.7 | 1409.1 | 1231.7 | 1093.0 | 1039.5 | 1050.2 | 1191.6 | 1420.6 | 1424.3 | 1296.9 |
| 27.5° | 1473.7 | 1572.1 | 1491.9 | 1273.6 | 1106.3 | 1051.5 | 1065.6 | 1252.1 | 1532.8 | 1578.2 | 1458.5 |
| 30° | 1591.6 | 1660.0 | 1524.7 | 1311.9 | 1132.7 | 1074.7 | 1092.4 | 1309.7 | 1583.9 | 1682.1 | 1582.9 |
| 32.5° | 1689.2 | 1738.4 | 1577.0 | 1359.3 | 1181.1 | 1111.4 | 1142.4 | 1379.5 | 1657.4 | 1780.9 | 1704.6 |
| 35° | 1813.9 | 1827.9 | 1642.0 | 1412.1 | 1255.8 | 1175.2 | 1213.7 | 1448.0 | 1727.4 | 1880.8 | 1824.5 |
| 37.5° | 1960.1 | 1942.1 | 1703.3 | 1484.4 | 1352.4 | 1275.0 | 1306.8 | 1523.1 | 1785.2 | 1994.0 | 1947.0 |
| 40° | 2104.7 | 2061.4 | 1780.3 | 1596.6 | 1493.3 | 1392.7 | 1430.4 | 1603.3 | 1839.0 | 2107.4 | 2066.7 |
| 42.5° | 2227.7 | 2163.5 | 1856.2 | 1720.0 | 1624.6 | 1522.5 | 1567.5 | 1684.1 | 1890.5 | 2204.2 | 2170.5 |
| 45° | 2318.6 | 2238.8 | 1928.5 | 1838.4 | 1805.4 | 1695.0 | 1716.3 | 1776.7 | 1946.2 | 2285.0 | 2256.0 |
| 47.5° | 2399.8 | 2314.5 | 2010.4 | 1957.9 | 1963.6 | 1919.4 | 1885.2 | 1884.4 | 2011.8 | 2351.0 | 2336.8 |
| 50° | 2508.5 | 2419.6 | 2098.3 | 2081.0 | 2200.9 | 2171.6 | 2096.0 | 2010.2 | 2094.8 | 2425.9 | 2424.3 |
| 52.5° | 2658.4 | 2586.1 | 2205.6 | 2213.7 | 2422.5 | 2441.7 | 2348.2 | 2161.2 | 2224.8 | 2563.4 | 2553.7 |
| 55° | 2835.6 | 2793.5 | 2351.8 | 2366.2 | 2694.3 | 2708.0 | 2615.1 | 2350.2 | 2416.0 | 2762.5 | 2735.6 |
| 57.5° | 2973.9 | 2965.0 | 2512.2 | 2549.3 | 2897.2 | 2959.1 | 2873.7 | 2568.9 | 2631.5 | 2930.2 | 2862.5 |
| 60° | 3029.0 | 3072.1 | 2682.9 | 2733.9 | 3084.9 | 3153.6 | 3078.6 | 2761.1 | 2822.4 | 2999.6 | 2853.8 |
| 62.5° | 2999.2 | 3095.6 | 2864.8 | 2860.5 | 3126.8 | 3200.7 | 3148.1 | 2868.0 | 2964.0 | 2928.0 | 2709.4 |
| 65° | 2861.7 | 3011.2 | 2970.3 | 2827.9 | 2983.4 | 2989.5 | 2972.5 | 2820.2 | 2997.4 | 2701.3 | 2430.4 |
| 67.5° | 2562.2 | 2777.3 | 2831.4 | 2548.4 | 2596.6 | 2557.1 | 2528.6 | 2558.6 | 2823.3 | 2361.7 | 2042.6 |
| 70° | 2086.9 | 2410.5 | 2436.5 | 2038.3 | 2016.4 | 1989.9 | 1933.0 | 2097.6 | 2479.6 | 1935.6 | 1620.7 |
| 72.5° | 1534.5 | 1874.7 | 1954.3 | 1495.0 | 1393.7 | 1399.2 | 1354.2 | 1580.8 | 2016.0 | 1437.9 | 1210.0 |
| 75° | 1049.8 | 1357.5 | 1529.0 | 1043.2 | 921.6 | 923.9 | 918.2 | 1120.1 | 1605.7 | 1000.2 | 905.4 |
| 77.5° | 766.9 | 969.8 | 1153.1 | 701.3 | 680.9 | 668.3 | 665.3 | 783.7 | 1231.1 | 726.2 | 703.1 |
| 80° | 615.4 | 716.5 | 774.6 | 486.0 | 522.7 | 521.7 | 504.9 | 538.9 | 804.0 | 531.2 | 525.9 |
| 82.5° | 426.9 | 550.6 | 627.6 | 380.9 | 352.8 | 346.9 | 351.0 | 401.4 | 568.3 | 363.1 | 345.3 |
| 85° | 225.2 | 365.7 | 621.5 | 337.6 | 209.4 | 167.1 | 207.8 | 328.7 | 492.3 | 192.4 | 168.5 |
| 87.5° | 28.8 | 105.7 | 411.5 | 134.7 | 82.6 | 44.6 | 98.6 | 185.1 | 316.1 | 39.3 | 34.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 |
| 2.5° | 1350.4 | 1323.4 | 1288.2 | 1255.6 | 1221.8 | 1188.2 | 1144.2 | 1116.7 | 1097.6 | 1094.0 | 1085.9 |
| 5° | 1317.6 | 1228.0 | 1160.4 | 1101.9 | 1048.8 | 973.9 | 932.4 | 897.9 | 879.5 | 877.7 | 873.2 |
| 7.5° | 1166.3 | 1042.7 | 951.4 | 868.6 | 793.5 | 732.9 | 666.1 | 634.9 | 622.1 | 625.2 | 628.2 |
| 10° | 1008.9 | 870.8 | 765.9 | 681.3 | 615.0 | 564.0 | 510.3 | 474.1 | 449.0 | 443.9 | 442.9 |
| 12.5° | 893.9 | 742.4 | 640.6 | 580.8 | 529.6 | 481.6 | 424.7 | 381.9 | 349.3 | 338.2 | 330.7 |
| 15° | 845.3 | 679.6 | 572.9 | 508.5 | 452.0 | 391.1 | 338.2 | 293.4 | 263.5 | 253.8 | 248.3 |
| 17.5° | 855.6 | 662.2 | 526.3 | 443.9 | 371.6 | 308.0 | 241.4 | 203.1 | 185.1 | 180.4 | 180.4 |
| 20° | 909.9 | 659.0 | 487.9 | 384.4 | 294.3 | 220.5 | 165.9 | 144.0 | 138.1 | 137.5 | 139.1 |
| 22.5° | 986.0 | 670.3 | 459.1 | 332.7 | 228.6 | 161.0 | 129.2 | 121.1 | 118.5 | 119.1 | 120.9 |
| 25° | 1099.5 | 708.6 | 438.2 | 286.8 | 179.4 | 131.8 | 115.2 | 110.4 | 109.2 | 110.8 | 113.0 |
| 27.5° | 1233.9 | 746.9 | 425.3 | 252.1 | 151.5 | 120.5 | 109.6 | 104.5 | 105.3 | 107.3 | 109.4 |
| 30° | 1352.0 | 778.3 | 404.8 | 227.4 | 142.8 | 121.1 | 109.6 | 102.7 | 101.9 | 102.3 | 102.9 |
| 32.5° | 1457.9 | 799.5 | 380.9 | 203.9 | 123.1 | 107.5 | 102.3 | 101.3 | 96.8 | 95.2 | 95.4 |
| 35° | 1549.2 | 799.5 | 366.6 | 190.2 | 110.4 | 95.4 | 86.9 | 81.8 | 79.6 | 79.8 | 82.0 |
| 37.5° | 1637.3 | 783.5 | 359.5 | 182.5 | 103.5 | 90.7 | 83.2 | 78.8 | 75.7 | 75.1 | 75.5 |
| 40° | 1715.1 | 760.2 | 351.4 | 179.2 | 98.2 | 87.9 | 80.8 | 77.2 | 73.9 | 72.9 | 73.1 |
| 42.5° | 1777.5 | 741.4 | 342.5 | 175.0 | 95.0 | 85.9 | 79.2 | 75.9 | 72.3 | 71.3 | 71.1 |
| 45° | 1844.9 | 735.1 | 330.7 | 166.5 | 96.6 | 86.1 | 78.8 | 75.3 | 71.7 | 70.5 | 70.1 |
| 47.5° | 1933.8 | 754.8 | 318.6 | 156.3 | 100.0 | 87.1 | 79.4 | 75.3 | 71.5 | 70.5 | 70.1 |
| 50° | 2045.8 | 800.9 | 303.2 | 141.6 | 96.6 | 89.9 | 79.2 | 74.7 | 71.5 | 70.5 | 69.7 |
| 52.5° | 2189.6 | 863.3 | 282.9 | 124.5 | 94.6 | 96.8 | 78.8 | 73.5 | 70.5 | 69.1 | 67.6 |
| 55° | 2364.4 | 914.4 | 258.8 | 110.6 | 89.9 | 95.0 | 78.2 | 72.1 | 68.9 | 66.8 | 65.6 |
| 57.5° | 2492.3 | 932.8 | 227.8 | 101.5 | 83.4 | 91.9 | 77.4 | 70.3 | 66.8 | 65.2 | 63.6 |
| 60° | 2467.0 | 897.1 | 201.7 | 95.8 | 79.6 | 83.0 | 76.8 | 68.7 | 65.0 | 63.8 | 62.4 |
| 62.5° | 2264.3 | 804.0 | 184.9 | 93.2 | 77.2 | 75.7 | 77.4 | 67.0 | 63.4 | 62.2 | 61.8 |
| 65° | 1960.3 | 666.5 | 178.2 | 92.5 | 75.1 | 71.5 | 71.9 | 65.2 | 61.6 | 60.6 | 60.1 |
| 67.5° | 1617.1 | 537.9 | 172.3 | 94.6 | 72.5 | 68.4 | 66.4 | 62.8 | 59.7 | 58.7 | 57.9 |
| 70° | 1275.2 | 447.4 | 169.7 | 93.4 | 69.3 | 65.4 | 63.2 | 60.1 | 57.5 | 56.5 | 55.9 |
| 72.5° | 1027.0 | 377.9 | 168.3 | 92.1 | 65.0 | 61.4 | 59.3 | 56.7 | 53.9 | 53.5 | 52.9 |
| 75° | 869.0 | 297.1 | 154.1 | 88.3 | 60.1 | 56.5 | 55.1 | 52.7 | 49.8 | 49.8 | 49.4 |
| 77.5° | 670.3 | 214.9 | 128.2 | 78.2 | 55.1 | 51.0 | 49.8 | 48.0 | 44.8 | 45.4 | 45.2 |
| 80° | 495.1 | 140.1 | 100.2 | 64.8 | 48.8 | 45.0 | 44.4 | 42.5 | 39.1 | 39.9 | 39.9 |
| 82.5° | 339.2 | 91.9 | 72.1 | 53.1 | 41.7 | 38.1 | 38.1 | 36.3 | 32.4 | 32.8 | 34.0 |
| 85° | 170.3 | 63.2 | 53.9 | 41.1 | 32.4 | 30.6 | 30.6 | 29.2 | 25.3 | 25.5 | 27.1 |
| 87.5° | 51.8 | 38.1 | 35.6 | 29.4 | 23.3 | 22.9 | 21.9 | 20.9 | 18.4 | 18.2 | 19.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GAP-AF-01-LED-U-SLL-8030-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 | 1244.7 |
| 2.5° | 1073.5 | 1062.0 | 1048.0 | 1017.2 | 1006.9 | 1006.3 | 1015.6 | 1005.9 | 1024.5 | 1016.6 | 1025.3 |
| 5° | 865.7 | 854.4 | 838.8 | 799.5 | 775.6 | 759.4 | 751.7 | 729.1 | 745.5 | 733.5 | 743.4 |
| 7.5° | 636.7 | 639.3 | 629.0 | 605.9 | 553.9 | 527.8 | 512.4 | 498.6 | 510.5 | 509.3 | 528.4 |
| 10° | 447.6 | 454.6 | 447.4 | 424.1 | 381.9 | 367.6 | 370.4 | 375.9 | 391.5 | 399.6 | 428.9 |
| 12.5° | 322.2 | 321.8 | 317.1 | 296.3 | 268.5 | 270.2 | 281.7 | 291.2 | 305.6 | 314.1 | 344.1 |
| 15° | 240.6 | 236.9 | 234.9 | 217.9 | 202.1 | 205.6 | 211.2 | 212.2 | 221.3 | 226.4 | 250.7 |
| 17.5° | 181.9 | 183.7 | 185.9 | 173.8 | 161.8 | 159.6 | 155.1 | 149.7 | 152.3 | 153.3 | 165.5 |
| 20° | 144.4 | 151.7 | 157.2 | 148.6 | 136.5 | 130.0 | 124.3 | 120.7 | 120.7 | 120.5 | 123.9 |
| 22.5° | 126.2 | 131.4 | 137.3 | 131.4 | 120.5 | 114.8 | 111.6 | 108.8 | 108.3 | 108.3 | 111.6 |
| 25° | 116.2 | 120.1 | 125.8 | 121.7 | 113.6 | 109.4 | 106.3 | 102.7 | 101.3 | 100.9 | 103.1 |
| 27.5° | 111.4 | 113.0 | 115.8 | 112.2 | 105.3 | 103.3 | 102.5 | 99.2 | 97.4 | 96.4 | 98.6 |
| 30° | 103.1 | 102.7 | 102.9 | 99.2 | 93.8 | 93.6 | 95.0 | 95.6 | 95.0 | 94.8 | 98.2 |
| 32.5° | 95.4 | 94.6 | 94.4 | 91.1 | 86.1 | 84.9 | 86.1 | 87.3 | 88.7 | 90.7 | 94.8 |
| 35° | 85.7 | 87.7 | 88.9 | 86.1 | 80.0 | 76.3 | 74.9 | 72.7 | 71.5 | 71.5 | 76.1 |
| 37.5° | 78.0 | 82.6 | 84.4 | 81.8 | 75.1 | 70.1 | 67.6 | 67.2 | 67.4 | 68.2 | 72.7 |
| 40° | 75.3 | 78.8 | 80.4 | 77.8 | 71.1 | 66.4 | 65.0 | 64.6 | 65.0 | 66.2 | 70.7 |
| 42.5° | 73.7 | 76.1 | 75.9 | 72.7 | 67.2 | 64.0 | 63.2 | 62.8 | 63.2 | 64.4 | 69.3 |
| 45° | 72.3 | 73.9 | 72.3 | 68.4 | 63.4 | 61.8 | 62.0 | 61.8 | 62.2 | 63.4 | 68.0 |
| 47.5° | 71.1 | 71.7 | 69.7 | 65.8 | 60.6 | 60.1 | 61.0 | 61.6 | 62.0 | 63.0 | 67.8 |
| 50° | 69.3 | 69.3 | 67.4 | 63.4 | 58.1 | 58.3 | 59.3 | 60.8 | 61.0 | 62.2 | 66.0 |
| 52.5° | 67.0 | 66.8 | 65.6 | 61.8 | 56.1 | 56.7 | 56.7 | 58.3 | 58.7 | 60.1 | 64.2 |
| 55° | 65.2 | 64.8 | 64.2 | 60.6 | 54.3 | 55.3 | 54.7 | 55.3 | 56.3 | 57.7 | 62.2 |
| 57.5° | 63.6 | 62.8 | 62.8 | 59.5 | 52.9 | 53.3 | 51.8 | 52.7 | 53.9 | 55.1 | 59.7 |
| 60° | 62.0 | 61.2 | 61.6 | 58.1 | 50.6 | 50.2 | 49.6 | 51.2 | 51.6 | 53.1 | 57.7 |
| 62.5° | 60.1 | 59.5 | 59.7 | 56.5 | 49.0 | 48.0 | 48.0 | 49.4 | 49.6 | 51.6 | 56.1 |
| 65° | 58.7 | 57.9 | 57.7 | 54.9 | 47.2 | 46.0 | 46.6 | 47.2 | 47.6 | 49.6 | 53.9 |
| 67.5° | 57.3 | 55.7 | 55.7 | 53.5 | 45.2 | 43.9 | 45.2 | 45.0 | 45.6 | 47.4 | 50.8 |
| 70° | 55.5 | 53.3 | 53.5 | 52.5 | 43.1 | 41.7 | 42.7 | 42.5 | 42.9 | 44.1 | 47.6 |
| 72.5° | 52.7 | 50.8 | 51.2 | 50.8 | 41.1 | 39.1 | 39.5 | 39.5 | 39.5 | 40.5 | 44.1 |
| 75° | 49.0 | 47.6 | 48.8 | 49.8 | 38.7 | 35.8 | 36.3 | 36.3 | 35.6 | 36.3 | 40.7 |
| 77.5° | 44.6 | 43.7 | 47.8 | 46.4 | 35.8 | 32.4 | 32.4 | 32.0 | 30.8 | 31.6 | 36.5 |
| 80° | 39.7 | 39.1 | 44.1 | 38.9 | 32.6 | 28.1 | 27.7 | 26.7 | 25.5 | 26.1 | 31.0 |
| 82.5° | 34.6 | 34.0 | 37.1 | 29.8 | 28.1 | 23.3 | 22.3 | 20.5 | 19.2 | 19.8 | 24.3 |
| 85° | 28.4 | 28.4 | 28.6 | 22.5 | 21.5 | 17.8 | 16.6 | 14.2 | 12.8 | 13.2 | 17.4 |
| 87.5° | 20.3 | 20.9 | 19.2 | 15.4 | 12.8 | 9.9 | 9.1 | 7.7 | 6.5 | 7.5 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 27.5° | 104.3 | 113.8 | 135.7 | 212.6 | 384.4 | 753.4 | 1263.1 | 1473.7 |
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| 32.5° | 95.8 | 100.0 | 113.0 | 182.5 | 342.2 | 824.8 | 1470.5 | 1689.2 |
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| 37.5° | 77.8 | 85.3 | 93.8 | 173.4 | 347.3 | 870.0 | 1697.1 | 1960.1 |
| 40° | 75.3 | 82.2 | 89.5 | 171.9 | 351.8 | 891.3 | 1815.7 | 2104.7 |
| 42.5° | 73.7 | 80.0 | 89.1 | 167.1 | 354.0 | 910.3 | 1913.4 | 2227.7 |
| 45° | 73.5 | 80.0 | 90.7 | 162.2 | 357.4 | 930.8 | 1995.2 | 2318.6 |
| 47.5° | 73.7 | 82.6 | 87.7 | 156.3 | 357.4 | 965.0 | 2091.2 | 2399.8 |
| 50° | 72.9 | 87.1 | 84.4 | 148.0 | 349.1 | 1029.8 | 2222.8 | 2508.5 |
| 52.5° | 72.5 | 86.5 | 78.2 | 135.3 | 334.8 | 1132.7 | 2391.5 | 2658.4 |
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| 57.5° | 70.5 | 73.9 | 71.3 | 99.6 | 292.0 | 1323.8 | 2696.5 | 2973.9 |
| 60° | 79.0 | 64.6 | 69.3 | 91.5 | 257.4 | 1345.5 | 2691.6 | 3029.0 |
| 62.5° | 73.1 | 60.6 | 66.6 | 89.7 | 233.1 | 1284.8 | 2567.3 | 2999.2 |
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| 67.5° | 52.5 | 55.3 | 61.4 | 101.7 | 227.2 | 899.8 | 2017.7 | 2562.2 |
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| 72.5° | 46.0 | 48.6 | 54.9 | 105.7 | 218.3 | 487.2 | 1229.5 | 1534.5 |
| 75° | 41.9 | 44.4 | 50.0 | 92.1 | 180.8 | 338.0 | 940.5 | 1049.8 |
| 77.5° | 37.3 | 39.1 | 43.9 | 71.1 | 134.3 | 216.3 | 706.0 | 766.9 |
| 80° | 31.8 | 32.8 | 36.9 | 52.0 | 91.9 | 135.3 | 558.5 | 615.4 |
| 82.5° | 25.5 | 25.9 | 28.6 | 39.1 | 59.7 | 86.9 | 374.0 | 426.9 |
| 85° | 18.0 | 18.0 | 19.6 | 28.4 | 40.7 | 55.1 | 203.1 | 225.2 |
| 87.5° | 8.5 | 8.7 | 8.7 | 15.6 | 21.3 | 27.9 | 46.8 | 28.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)