

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: P200268

Luminaire Tested: **GAP-AF-02-LED-U-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7050-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6779 lumens
Efficiency: N/A
Efficacy: 102.7 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

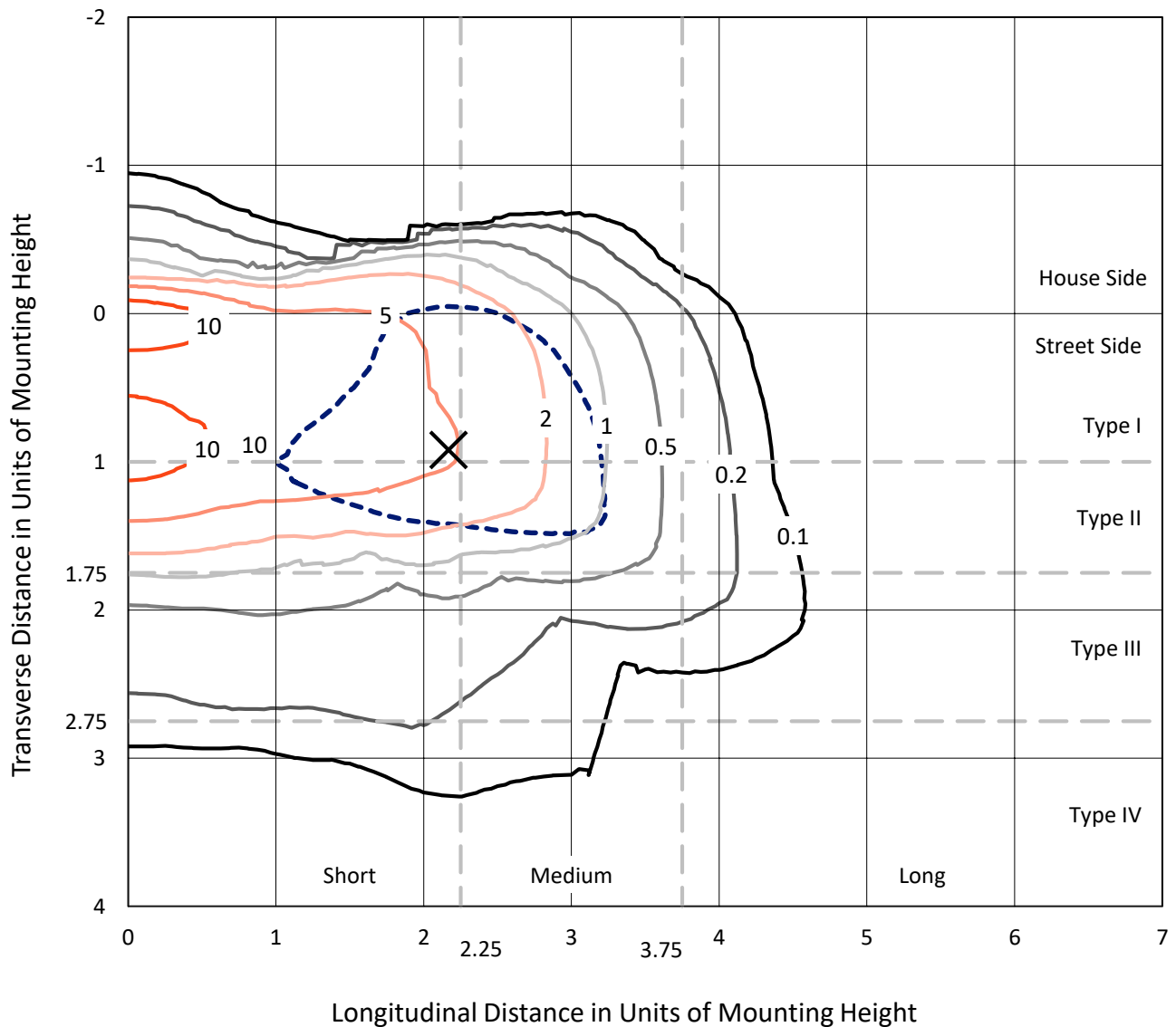


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

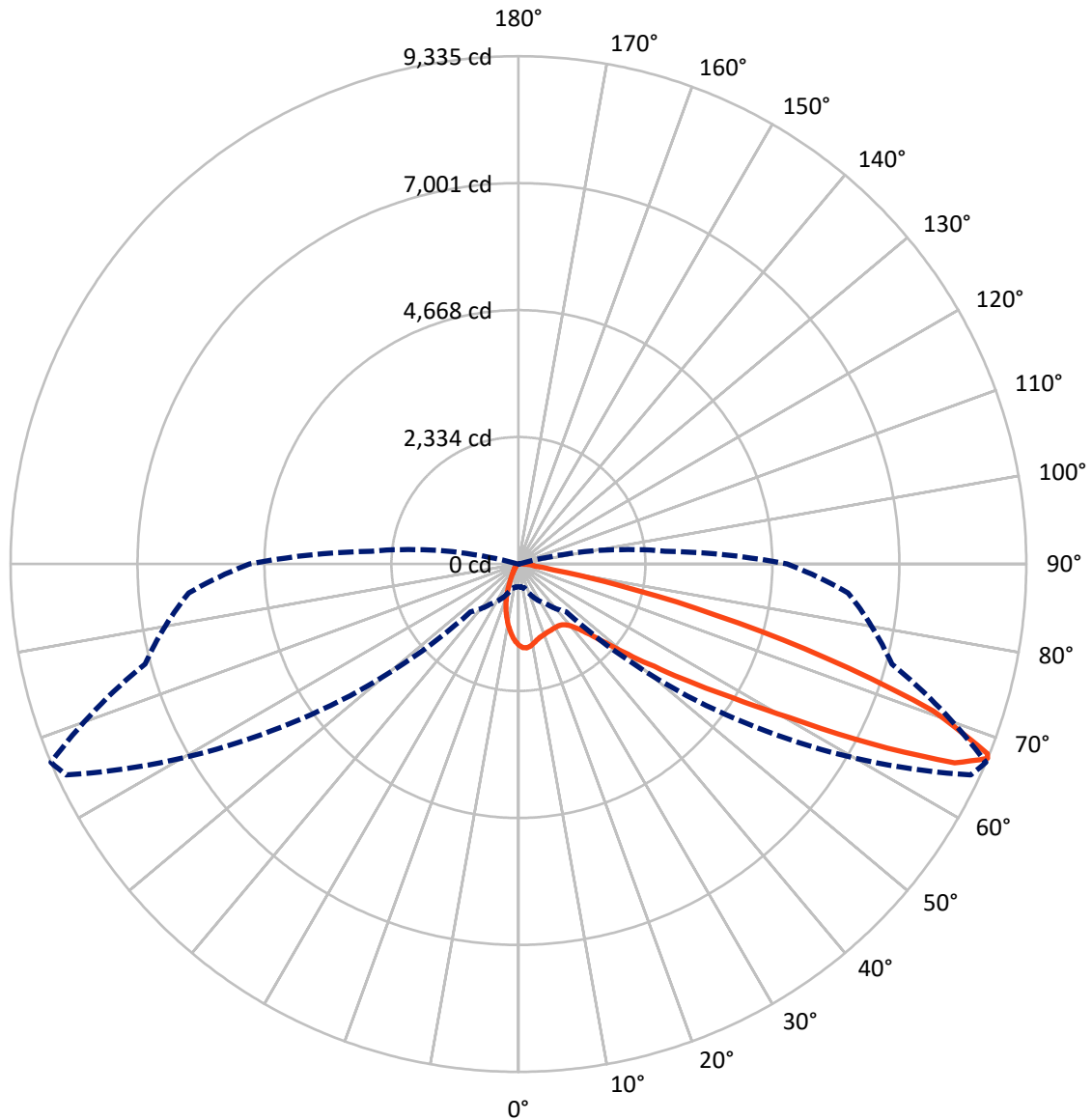


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 703.9 | 0.0 | 703.9 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 6075.1 | 0.0 | 6075.1 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 6779.0 | 0.0 | 6779.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.6 | 1.8 |
| 10°-20° | 258.9 | 3.8 |
| 20°-30° | 376.4 | 5.6 |
| 30°-40° | 587.3 | 8.7 |
| 40°-50° | 1040.3 | 15.3 |
| 50°-60° | 1646.2 | 24.3 |
| 60°-70° | 1885.4 | 27.8 |
| 70°-80° | 782.1 | 11.5 |
| 80°-90° | 80.8 | 1.2 |
| 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° | 6779.0 | 100.0 |
| 0°-180° | 6779.0 | 100.0 |

Coefficient of Utilization



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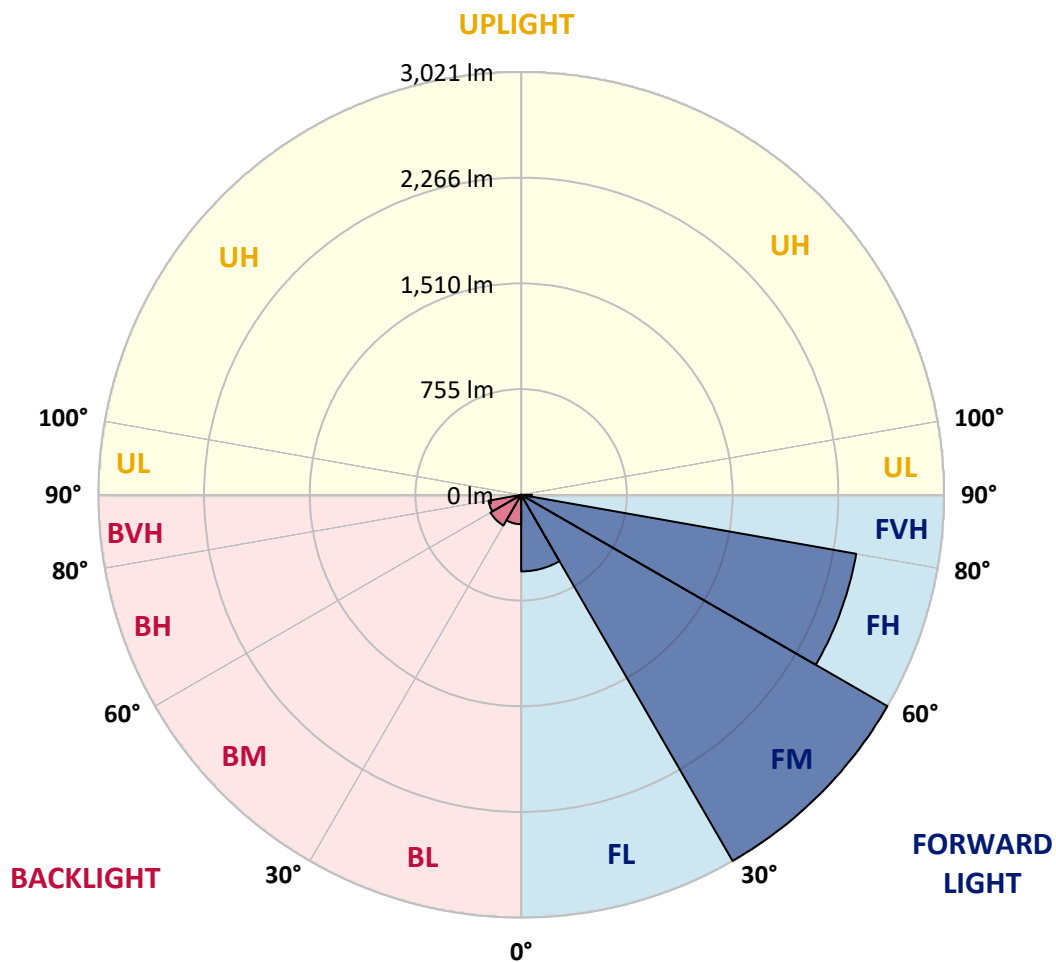
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 547.0 | 8.1 | | | |
| FM (30°-60°) | 3020.7 | 44.6 | | | |
| FH (60°-80°) | 2430.3 | 35.9 | | | G2/5000 |
| FVH (80°-90°) | 77.1 | 1.1 | | | G1/100 |
| BL (0°-30°) | 210.0 | 3.1 | B1/500 | | |
| BM (30°-60°) | 253.0 | 3.7 | B1/1000 | | |
| BH (60°-80°) | 237.2 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.6 | 0.1 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 |
| 2.5° | 1545.6 | 1548.8 | 1548.4 | 1550.8 | 1556.3 | 1556.7 | 1551.2 | 1540.5 | 1538.1 | 1524.3 | 1500.2 |
| 5° | 1425.4 | 1434.5 | 1440.1 | 1462.6 | 1487.9 | 1518.3 | 1541.3 | 1549.6 | 1548.4 | 1538.5 | 1502.1 |
| 7.5° | 1288.2 | 1297.3 | 1303.6 | 1330.1 | 1363.7 | 1415.9 | 1475.6 | 1524.7 | 1529.0 | 1539.7 | 1500.6 |
| 10° | 1196.9 | 1198.5 | 1207.2 | 1232.5 | 1267.7 | 1321.0 | 1392.2 | 1478.0 | 1491.1 | 1530.2 | 1496.6 |
| 12.5° | 1121.8 | 1122.9 | 1134.4 | 1161.7 | 1199.3 | 1253.0 | 1327.8 | 1427.0 | 1447.2 | 1518.3 | 1495.8 |
| 15° | 1068.4 | 1072.7 | 1083.0 | 1111.5 | 1151.4 | 1204.8 | 1281.5 | 1389.4 | 1413.6 | 1514.0 | 1502.9 |
| 17.5° | 1050.6 | 1055.3 | 1058.5 | 1079.1 | 1115.4 | 1167.6 | 1246.3 | 1364.9 | 1392.2 | 1516.4 | 1516.8 |
| 20° | 1069.2 | 1072.7 | 1065.6 | 1070.8 | 1093.3 | 1139.9 | 1216.7 | 1344.0 | 1376.4 | 1519.1 | 1534.6 |
| 22.5° | 1138.4 | 1139.9 | 1120.6 | 1098.0 | 1094.1 | 1119.8 | 1193.3 | 1327.4 | 1362.2 | 1526.7 | 1555.5 |
| 25° | 1257.0 | 1254.2 | 1222.6 | 1174.0 | 1128.1 | 1116.2 | 1179.5 | 1317.1 | 1355.0 | 1534.6 | 1577.3 |
| 27.5° | 1400.1 | 1404.1 | 1360.6 | 1289.8 | 1202.4 | 1139.9 | 1177.5 | 1312.7 | 1351.9 | 1540.1 | 1596.2 |
| 30° | 1574.1 | 1579.6 | 1529.8 | 1440.8 | 1315.5 | 1198.5 | 1195.7 | 1311.9 | 1349.9 | 1536.5 | 1597.8 |
| 32.5° | 1751.6 | 1758.4 | 1719.2 | 1627.5 | 1466.6 | 1296.5 | 1236.8 | 1320.6 | 1353.9 | 1524.3 | 1588.7 |
| 35° | 1937.5 | 1947.0 | 1920.9 | 1842.2 | 1671.4 | 1438.1 | 1309.2 | 1347.1 | 1372.4 | 1523.1 | 1579.6 |
| 37.5° | 2194.1 | 2202.8 | 2153.8 | 2070.3 | 1919.3 | 1627.9 | 1425.4 | 1397.0 | 1416.3 | 1542.1 | 1582.0 |
| 40° | 2577.2 | 2576.1 | 2449.5 | 2321.8 | 2191.7 | 1869.1 | 1588.7 | 1487.1 | 1497.0 | 1599.4 | 1611.3 |
| 42.5° | 2994.8 | 2992.8 | 2805.8 | 2611.6 | 2494.2 | 2166.0 | 1803.4 | 1642.9 | 1636.2 | 1705.0 | 1687.2 |
| 45° | 3316.6 | 3316.2 | 3163.6 | 2945.0 | 2858.4 | 2506.9 | 2081.0 | 1859.6 | 1849.3 | 1876.6 | 1827.2 |
| 47.5° | 3453.8 | 3456.2 | 3379.5 | 3225.7 | 3262.1 | 2967.9 | 2430.9 | 2173.5 | 2158.1 | 2147.0 | 2071.9 |
| 50° | 3347.1 | 3351.8 | 3358.2 | 3328.1 | 3558.2 | 3587.5 | 2900.3 | 2616.0 | 2608.5 | 2559.1 | 2441.6 |
| 52.5° | 2998.3 | 3022.5 | 3096.8 | 3192.1 | 3661.0 | 4182.2 | 3636.1 | 3165.6 | 3125.3 | 3072.7 | 2943.4 |
| 55° | 2410.8 | 2437.3 | 2578.4 | 2809.7 | 3508.0 | 4572.8 | 4667.3 | 3874.2 | 3806.9 | 3650.0 | 3463.3 |
| 57.5° | 1595.5 | 1636.6 | 1841.4 | 2135.6 | 3063.6 | 4635.7 | 5696.2 | 4857.5 | 4623.5 | 4193.6 | 3983.3 |
| 60° | 879.0 | 918.5 | 1140.7 | 1407.2 | 2212.7 | 4324.9 | 6388.1 | 6137.8 | 5724.3 | 4801.4 | 4614.8 |
| 62.5° | 541.3 | 562.7 | 726.8 | 974.7 | 1327.0 | 3413.5 | 6531.3 | 7746.7 | 7267.9 | 5583.9 | 5377.5 |
| 65° | 431.0 | 440.1 | 520.4 | 796.7 | 951.3 | 2030.4 | 6069.0 | 8973.3 | 8813.5 | 6531.3 | 6060.3 |
| 67° | 418.3 | 421.9 | 459.9 | 684.0 | 896.8 | 1244.7 | 5084.5 | 9173.0 | 9335.1 | 7104.6 | 6081.7 |
| 67.5° | 421.1 | 425.1 | 461.0 | 652.8 | 895.2 | 1143.9 | 4745.2 | 9094.3 | 9299.1 | 7150.1 | 5987.2 |
| 70° | 406.1 | 418.3 | 527.9 | 652.4 | 851.3 | 950.5 | 2841.8 | 7879.6 | 8092.7 | 6643.6 | 5080.1 |
| 72.5° | 143.9 | 144.7 | 228.1 | 527.9 | 925.6 | 960.8 | 1427.0 | 5776.4 | 5934.2 | 5082.1 | 3662.6 |
| 75° | 85.4 | 72.8 | 75.9 | 150.3 | 884.5 | 933.2 | 823.2 | 3691.1 | 3750.0 | 2912.1 | 1854.8 |
| 77.5° | 58.9 | 51.4 | 53.0 | 66.4 | 336.9 | 920.1 | 654.0 | 1924.8 | 1862.0 | 1021.3 | 395.0 |
| 80° | 33.6 | 29.7 | 31.6 | 58.1 | 122.6 | 858.4 | 616.8 | 780.5 | 665.5 | 173.2 | 109.1 |
| 82.5° | 17.8 | 15.0 | 18.2 | 47.8 | 85.4 | 535.0 | 618.0 | 377.2 | 298.9 | 58.5 | 74.3 |
| 85° | 6.3 | 5.1 | 8.7 | 32.8 | 56.9 | 164.1 | 572.9 | 317.1 | 249.1 | 28.5 | 56.5 |
| 87.5° | 1.2 | 1.2 | 3.6 | 13.4 | 22.9 | 50.2 | 338.9 | 188.2 | 126.1 | 17.0 | 38.7 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 | 1495.0 |
| 2.5° | 1490.3 | 1473.3 | 1450.3 | 1422.3 | 1389.1 | 1359.8 | 1338.0 | 1315.5 | 1310.8 | 1302.9 | 1301.7 |
| 5° | 1480.4 | 1451.1 | 1394.2 | 1329.0 | 1259.4 | 1196.5 | 1145.5 | 1100.0 | 1079.8 | 1062.4 | 1060.5 |
| 7.5° | 1465.8 | 1421.9 | 1325.0 | 1219.8 | 1111.1 | 1012.2 | 928.4 | 869.1 | 814.5 | 788.4 | 784.5 |
| 10° | 1448.8 | 1385.9 | 1247.1 | 1101.2 | 950.9 | 811.4 | 686.8 | 582.4 | 519.2 | 481.6 | 476.9 |
| 12.5° | 1432.9 | 1350.7 | 1167.6 | 978.2 | 778.5 | 591.9 | 431.8 | 332.1 | 265.7 | 238.8 | 235.7 |
| 15° | 1425.4 | 1322.2 | 1093.3 | 852.5 | 598.2 | 376.8 | 236.1 | 182.7 | 160.9 | 154.6 | 154.2 |
| 17.5° | 1424.6 | 1298.1 | 1020.5 | 722.4 | 419.1 | 219.1 | 153.8 | 140.4 | 136.0 | 134.4 | 134.4 |
| 20° | 1424.2 | 1275.2 | 947.8 | 587.6 | 266.1 | 145.9 | 128.1 | 124.9 | 121.8 | 119.8 | 119.8 |
| 22.5° | 1428.6 | 1254.6 | 871.9 | 450.0 | 167.7 | 118.2 | 112.7 | 109.5 | 105.6 | 102.8 | 102.4 |
| 25° | 1432.9 | 1238.8 | 794.4 | 320.3 | 121.4 | 102.8 | 97.3 | 92.9 | 87.4 | 83.8 | 83.4 |
| 27.5° | 1433.7 | 1219.0 | 711.3 | 214.3 | 101.6 | 89.8 | 82.6 | 75.9 | 69.6 | 66.0 | 65.6 |
| 30° | 1421.9 | 1185.8 | 619.2 | 144.7 | 89.8 | 77.9 | 68.4 | 61.3 | 55.4 | 52.6 | 52.6 |
| 32.5° | 1398.5 | 1144.7 | 518.0 | 109.1 | 79.9 | 66.8 | 56.5 | 49.8 | 45.9 | 44.7 | 44.3 |
| 35° | 1377.6 | 1100.4 | 414.0 | 92.5 | 71.6 | 56.5 | 46.3 | 41.9 | 39.5 | 39.1 | 38.7 |
| 37.5° | 1365.3 | 1064.8 | 316.3 | 83.8 | 63.7 | 47.4 | 39.1 | 36.0 | 34.8 | 34.0 | 34.4 |
| 40° | 1374.8 | 1035.2 | 233.7 | 76.7 | 55.8 | 39.5 | 33.2 | 31.6 | 30.4 | 30.1 | 30.1 |
| 42.5° | 1416.3 | 1030.0 | 173.6 | 70.4 | 48.2 | 32.8 | 28.9 | 27.7 | 26.9 | 26.5 | 26.9 |
| 45° | 1525.5 | 1061.7 | 134.8 | 64.5 | 40.7 | 27.7 | 24.5 | 24.1 | 23.7 | 23.7 | 23.7 |
| 47.5° | 1689.6 | 1126.9 | 112.3 | 57.7 | 34.0 | 23.7 | 21.4 | 21.0 | 20.6 | 21.0 | 21.0 |
| 50° | 1967.5 | 1246.3 | 100.4 | 51.0 | 28.1 | 20.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.6 |
| 52.5° | 2390.2 | 1481.2 | 92.5 | 44.3 | 22.9 | 17.0 | 15.4 | 15.4 | 15.8 | 15.8 | 16.2 |
| 55° | 2861.1 | 1792.8 | 85.4 | 37.6 | 19.4 | 14.2 | 12.7 | 13.0 | 13.4 | 13.8 | 13.8 |
| 57.5° | 3372.0 | 2137.9 | 79.5 | 30.8 | 16.6 | 11.5 | 10.7 | 11.1 | 11.5 | 12.3 | 12.3 |
| 60° | 3988.4 | 2511.6 | 70.8 | 24.1 | 13.8 | 9.1 | 8.3 | 9.1 | 10.3 | 11.1 | 11.5 |
| 62.5° | 4665.4 | 2873.0 | 59.7 | 19.0 | 11.5 | 7.1 | 6.7 | 8.3 | 9.9 | 10.7 | 11.1 |
| 65° | 5128.0 | 2986.5 | 45.9 | 15.4 | 8.7 | 5.1 | 5.5 | 7.5 | 9.5 | 10.7 | 10.7 |
| 67° | 4940.6 | 2707.7 | 37.6 | 13.0 | 7.1 | 4.0 | 5.1 | 7.5 | 9.5 | 10.3 | 10.7 |
| 67.5° | 4810.5 | 2598.6 | 36.0 | 12.7 | 6.7 | 4.0 | 5.1 | 7.5 | 9.5 | 10.7 | 10.7 |
| 70° | 3914.1 | 1952.1 | 30.1 | 9.5 | 5.5 | 3.6 | 4.3 | 7.1 | 9.1 | 10.3 | 10.3 |
| 72.5° | 2719.6 | 1203.6 | 26.9 | 6.7 | 4.7 | 3.2 | 4.0 | 6.7 | 8.7 | 9.9 | 10.3 |
| 75° | 1293.0 | 435.7 | 22.9 | 5.1 | 4.3 | 2.8 | 3.6 | 6.7 | 8.7 | 9.9 | 9.9 |
| 77.5° | 263.7 | 101.2 | 18.6 | 4.3 | 3.6 | 2.8 | 3.2 | 6.3 | 8.3 | 9.5 | 9.5 |
| 80° | 86.6 | 39.1 | 13.8 | 4.0 | 3.6 | 2.8 | 3.2 | 5.9 | 8.3 | 9.1 | 9.5 |
| 82.5° | 62.5 | 19.8 | 9.1 | 4.0 | 3.6 | 2.8 | 2.8 | 5.9 | 7.9 | 9.1 | 9.1 |
| 85° | 47.8 | 13.8 | 5.9 | 4.0 | 3.6 | 2.8 | 2.8 | 5.5 | 7.5 | 8.7 | 8.7 |
| 87.5° | 31.6 | 5.5 | 4.7 | 4.0 | 3.6 | 2.8 | 2.8 | 5.5 | 7.1 | 8.3 | 8.7 |
| 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)