

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: P200119

Luminaire Tested: **GAP-AF-01-LED-U-SL2**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200119  
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-01-LED-U-SL2  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE 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: 6369.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-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

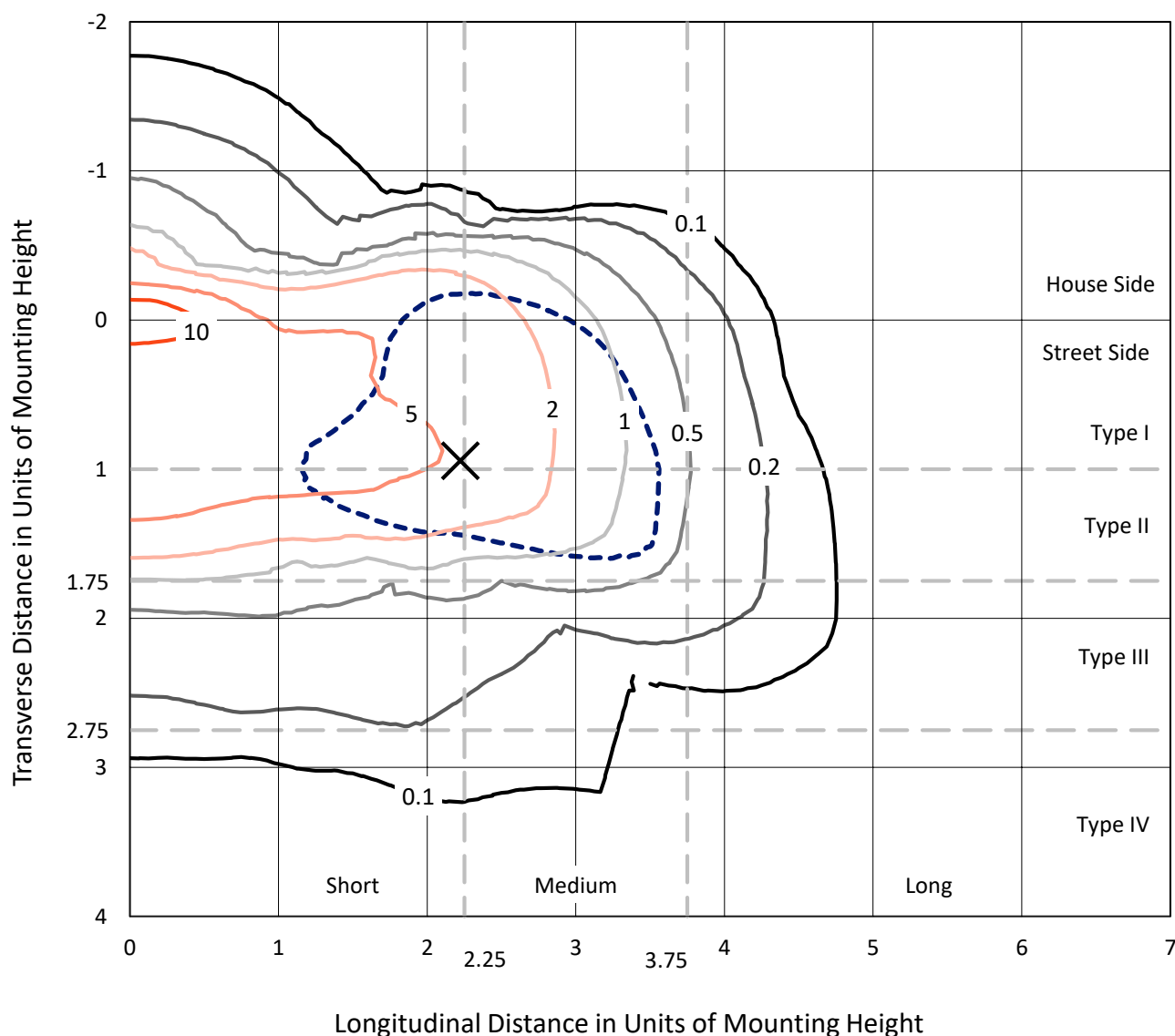


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

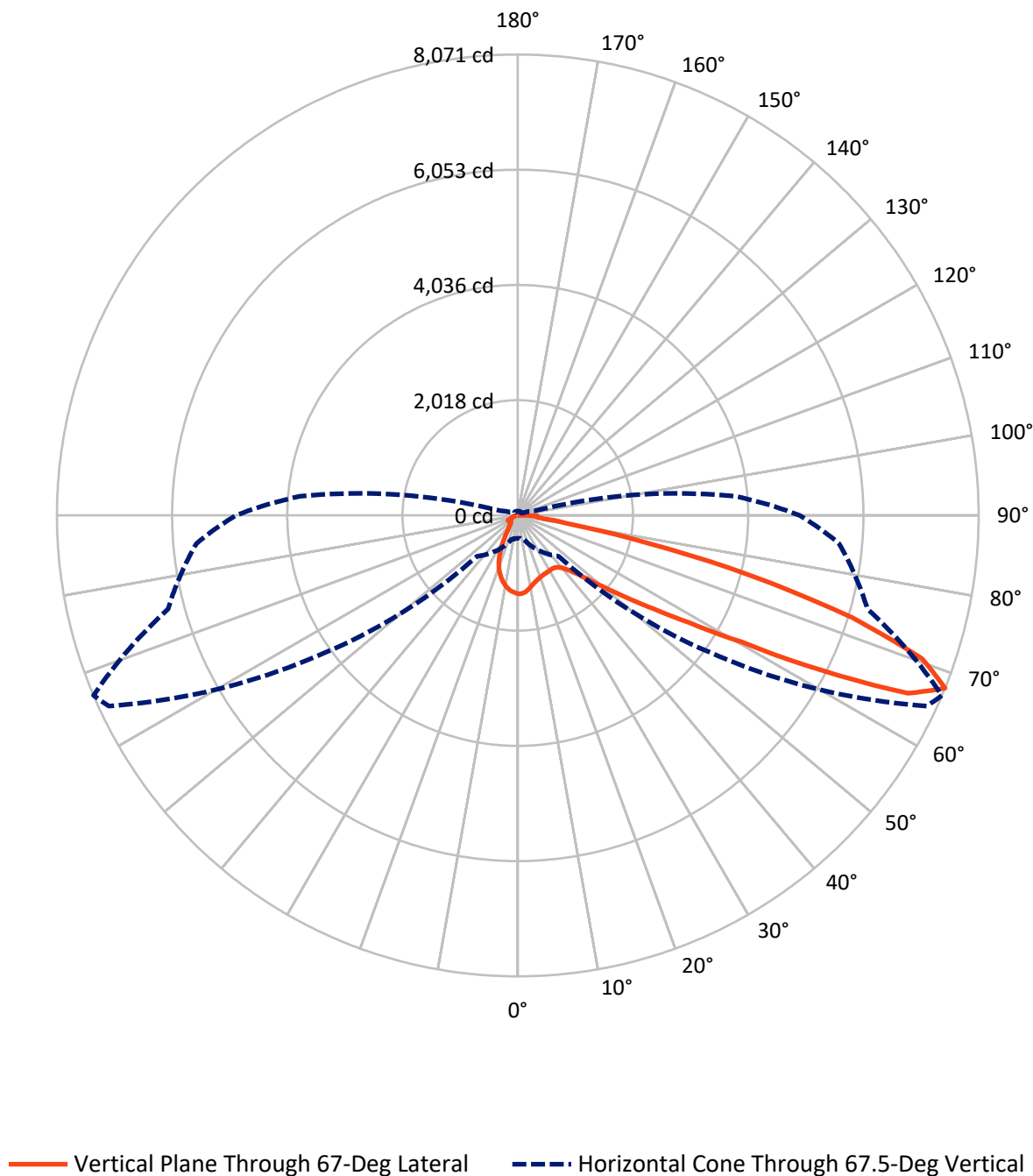


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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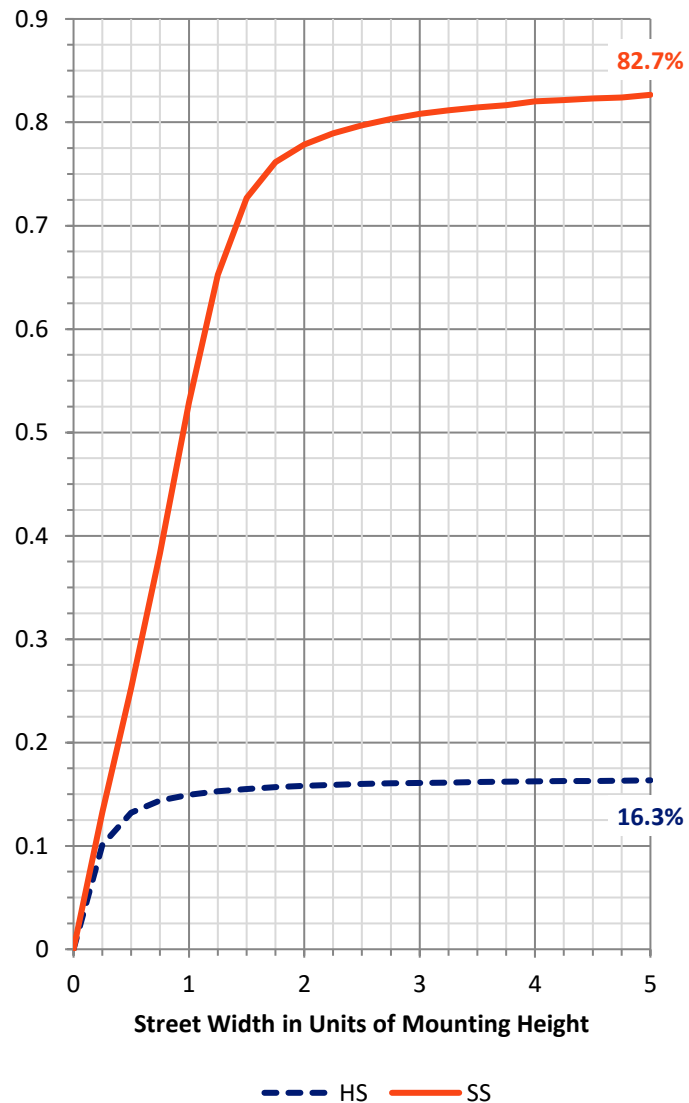
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1055.4   | 0.0    | 1055.4 |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 5314.5   | 0.0    | 5314.5 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 6369.9   | 0.0    | 6369.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.2  | 1.8       |
| 10°-20°   | 271.2  | 4.3       |
| 20°-30°   | 367.7  | 5.8       |
| 30°-40°   | 522.7  | 8.2       |
| 40°-50°   | 874.4  | 13.7      |
| 50°-60°   | 1383.4 | 21.7      |
| 60°-70°   | 1762.3 | 27.7      |
| 70°-80°   | 923.1  | 14.5      |
| 80°-90°   | 148.0  | 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°    | 6369.9 | 100.0     |
| 0°-180°   | 6369.9 | 100.0     |

**Coefficient of Utilization**



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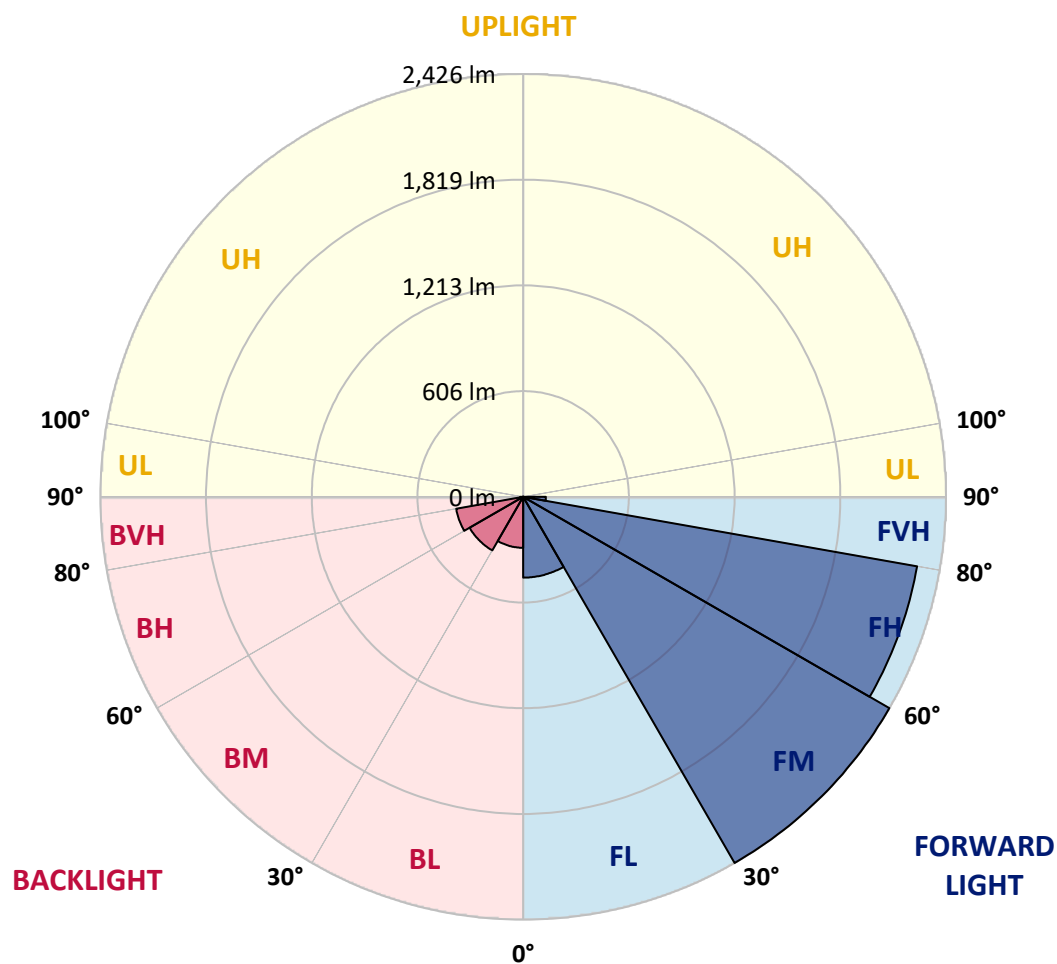
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 463.6  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2425.8 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 2294.9 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 130.2  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 292.5  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 354.7  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 390.4  | 6.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 17.9   | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 |
| 2.5°  | 1317.5 | 1319.6 | 1326.6 | 1331.0 | 1350.7 | 1359.2 | 1365.2 | 1371.2 | 1372.1 | 1374.9 | 1372.1 |
| 5°    | 1179.3 | 1184.0 | 1196.9 | 1211.3 | 1249.5 | 1279.7 | 1311.4 | 1344.5 | 1350.4 | 1371.8 | 1377.7 |
| 7.5°  | 1072.1 | 1070.8 | 1081.6 | 1098.9 | 1138.0 | 1179.9 | 1235.4 | 1301.1 | 1314.0 | 1362.1 | 1385.3 |
| 10°   | 993.9  | 993.0  | 1004.2 | 1022.1 | 1059.6 | 1099.2 | 1162.0 | 1251.8 | 1270.0 | 1346.6 | 1392.5 |
| 12.5° | 936.1  | 936.4  | 947.7  | 967.5  | 1005.5 | 1045.4 | 1109.2 | 1204.0 | 1227.2 | 1328.7 | 1400.0 |
| 15°   | 897.7  | 900.3  | 909.4  | 930.5  | 967.5  | 1007.4 | 1069.9 | 1168.2 | 1194.3 | 1314.6 | 1408.5 |
| 17.5° | 884.9  | 888.9  | 892.1  | 907.5  | 939.3  | 979.2  | 1040.3 | 1141.8 | 1169.4 | 1304.9 | 1416.1 |
| 20°   | 896.8  | 901.5  | 895.6  | 900.9  | 921.0  | 956.2  | 1017.1 | 1121.2 | 1149.4 | 1293.8 | 1417.0 |
| 22.5° | 948.1  | 952.5  | 934.9  | 919.4  | 918.2  | 939.6  | 998.0  | 1104.8 | 1133.9 | 1285.7 | 1417.3 |
| 25°   | 1038.2 | 1041.0 | 1011.5 | 975.7  | 940.8  | 933.5  | 984.5  | 1093.4 | 1124.5 | 1278.5 | 1411.4 |
| 27.5° | 1148.8 | 1150.9 | 1117.1 | 1064.3 | 994.2  | 947.7  | 979.8  | 1086.9 | 1119.2 | 1272.2 | 1401.3 |
| 30°   | 1283.2 | 1293.5 | 1248.0 | 1181.4 | 1079.3 | 989.5  | 989.2  | 1083.4 | 1113.3 | 1261.5 | 1381.5 |
| 32.5° | 1420.8 | 1425.2 | 1393.8 | 1326.3 | 1194.0 | 1062.9 | 1015.6 | 1086.0 | 1111.6 | 1248.6 | 1356.4 |
| 35°   | 1560.2 | 1565.9 | 1545.5 | 1491.2 | 1350.7 | 1170.8 | 1067.0 | 1100.7 | 1121.5 | 1244.2 | 1338.8 |
| 37.5° | 1740.9 | 1748.4 | 1720.1 | 1657.3 | 1541.4 | 1316.8 | 1152.9 | 1137.7 | 1151.2 | 1256.8 | 1333.4 |
| 40°   | 2026.4 | 2023.0 | 1940.3 | 1846.7 | 1750.0 | 1503.7 | 1275.3 | 1200.5 | 1208.4 | 1297.3 | 1349.8 |
| 42.5° | 2358.7 | 2350.2 | 2207.9 | 2060.9 | 1979.3 | 1729.9 | 1437.5 | 1309.6 | 1308.0 | 1377.1 | 1407.3 |
| 45°   | 2623.9 | 2616.9 | 2488.8 | 2307.6 | 2242.2 | 1987.5 | 1647.0 | 1472.0 | 1460.4 | 1503.7 | 1513.5 |
| 47.5° | 2767.4 | 2767.7 | 2693.9 | 2545.9 | 2544.4 | 2314.7 | 1916.2 | 1706.9 | 1686.8 | 1707.3 | 1696.9 |
| 50°   | 2717.2 | 2723.8 | 2715.9 | 2668.8 | 2820.2 | 2743.9 | 2267.7 | 2034.5 | 1994.0 | 2014.2 | 1974.3 |
| 52.5° | 2474.0 | 2482.5 | 2529.0 | 2601.3 | 2936.1 | 3262.5 | 2784.1 | 2441.7 | 2394.5 | 2387.4 | 2343.1 |
| 55°   | 2043.0 | 2053.5 | 2148.3 | 2344.6 | 2839.7 | 3610.8 | 3598.9 | 2960.6 | 2885.5 | 2817.4 | 2798.5 |
| 57.5° | 1408.2 | 1425.5 | 1578.1 | 1869.6 | 2527.7 | 3716.1 | 4569.2 | 3700.4 | 3547.7 | 3309.6 | 3314.0 |
| 60°   | 793.8  | 813.9  | 993.9  | 1258.7 | 1898.3 | 3601.7 | 5307.4 | 4820.9 | 4498.5 | 3886.0 | 3918.7 |
| 62.5° | 504.8  | 526.5  | 663.1  | 874.5  | 1139.1 | 2986.1 | 5610.0 | 6378.6 | 5969.3 | 4596.5 | 4628.6 |
| 65°   | 408.7  | 418.1  | 482.5  | 721.9  | 827.1  | 1799.0 | 5380.3 | 7661.8 | 7509.1 | 5498.5 | 5348.9 |
| 67.5° | 399.0  | 402.1  | 435.4  | 605.9  | 793.2  | 1011.2 | 4291.6 | 7901.8 | 8071.1 | 6340.6 | 5648.8 |
| 70°   | 394.2  | 405.2  | 490.7  | 578.3  | 759.5  | 852.8  | 2579.0 | 7244.0 | 7511.3 | 6560.8 | 5249.6 |
| 72.5° | 191.3  | 190.7  | 246.9  | 523.0  | 855.7  | 884.5  | 1324.9 | 5861.2 | 6129.5 | 5684.0 | 4313.9 |
| 75°   | 154.3  | 141.1  | 134.7  | 191.6  | 822.7  | 913.5  | 844.3  | 4033.0 | 4227.1 | 3810.9 | 2651.8 |
| 77.5° | 146.4  | 130.6  | 119.7  | 120.0  | 347.7  | 968.7  | 715.2  | 2232.2 | 2288.8 | 1721.4 | 726.6  |
| 80°   | 121.2  | 106.8  | 98.9   | 111.5  | 168.4  | 922.6  | 773.4  | 1010.3 | 927.0  | 422.8  | 241.8  |
| 82.5° | 84.2   | 76.6   | 74.5   | 93.6   | 134.7  | 657.5  | 899.4  | 542.8  | 455.2  | 211.8  | 149.2  |
| 85°   | 53.7   | 45.8   | 50.8   | 68.1   | 105.0  | 303.4  | 926.4  | 423.1  | 336.4  | 134.4  | 84.2   |
| 87.5° | 24.9   | 20.2   | 25.2   | 37.6   | 68.4   | 104.6  | 881.5  | 475.3  | 346.5  | 71.0   | 53.1   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 | 1373.9 |
| 2.5°  | 1374.6 | 1368.6 | 1363.9 | 1355.1 | 1345.4 | 1336.0 | 1327.5 | 1316.8 | 1313.7 | 1310.8 | 1315.2 |
| 5°    | 1379.0 | 1373.0 | 1355.7 | 1328.7 | 1298.9 | 1270.9 | 1243.0 | 1219.2 | 1204.3 | 1196.1 | 1200.8 |
| 7.5°  | 1385.6 | 1377.1 | 1341.3 | 1291.7 | 1238.0 | 1189.0 | 1138.3 | 1097.8 | 1068.1 | 1053.8 | 1057.9 |
| 10°   | 1391.5 | 1375.3 | 1316.8 | 1242.4 | 1163.8 | 1091.0 | 1011.2 | 945.2  | 896.2  | 870.4  | 876.7  |
| 12.5° | 1394.1 | 1368.0 | 1282.6 | 1180.8 | 1073.1 | 966.3  | 848.7  | 750.1  | 679.8  | 654.0  | 648.7  |
| 15°   | 1396.6 | 1359.8 | 1244.8 | 1110.7 | 963.4  | 812.3  | 647.7  | 529.6  | 471.2  | 458.3  | 455.5  |
| 17.5° | 1397.2 | 1345.7 | 1202.2 | 1034.7 | 834.9  | 629.2  | 442.9  | 367.9  | 368.2  | 388.9  | 391.4  |
| 20°   | 1390.6 | 1324.6 | 1150.3 | 940.2  | 681.0  | 435.1  | 304.0  | 291.2  | 338.6  | 390.5  | 396.7  |
| 22.5° | 1375.6 | 1296.7 | 1091.6 | 829.9  | 504.8  | 286.5  | 235.3  | 249.4  | 310.7  | 374.1  | 381.4  |
| 25°   | 1356.4 | 1262.7 | 1022.1 | 702.1  | 334.2  | 204.8  | 197.2  | 214.5  | 256.0  | 298.4  | 302.5  |
| 27.5° | 1330.3 | 1222.5 | 944.3  | 555.7  | 217.1  | 168.7  | 173.7  | 185.4  | 202.3  | 221.2  | 223.0  |
| 30°   | 1296.7 | 1174.6 | 861.0  | 405.2  | 164.0  | 151.7  | 159.0  | 165.2  | 172.5  | 183.1  | 184.0  |
| 32.5° | 1258.0 | 1128.3 | 775.6  | 279.9  | 145.5  | 142.9  | 148.5  | 151.7  | 157.3  | 164.0  | 164.6  |
| 35°   | 1225.7 | 1084.3 | 687.0  | 197.9  | 137.6  | 136.4  | 140.1  | 141.4  | 146.7  | 154.0  | 154.6  |
| 37.5° | 1207.2 | 1048.5 | 595.6  | 159.6  | 132.3  | 130.3  | 132.6  | 132.6  | 140.1  | 150.8  | 152.3  |
| 40°   | 1208.4 | 1028.8 | 504.2  | 144.1  | 127.9  | 125.3  | 125.6  | 125.6  | 135.3  | 147.0  | 147.9  |
| 42.5° | 1242.7 | 1033.8 | 423.1  | 138.2  | 124.4  | 121.5  | 120.0  | 120.9  | 129.1  | 136.7  | 137.3  |
| 45°   | 1323.1 | 1069.3 | 347.1  | 134.4  | 120.9  | 120.0  | 116.5  | 116.2  | 119.4  | 122.9  | 122.9  |
| 47.5° | 1455.0 | 1139.4 | 295.6  | 132.0  | 118.2  | 117.8  | 113.8  | 109.7  | 109.4  | 110.6  | 110.6  |
| 50°   | 1669.6 | 1260.0 | 261.1  | 129.1  | 116.2  | 113.8  | 109.0  | 102.7  | 100.6  | 101.5  | 101.5  |
| 52.5° | 1991.3 | 1475.1 | 247.9  | 125.3  | 112.1  | 108.0  | 102.7  | 96.5   | 94.5   | 94.8   | 94.8   |
| 55°   | 2413.1 | 1805.6 | 245.9  | 120.9  | 107.7  | 101.2  | 96.8   | 92.1   | 89.8   | 90.4   | 90.4   |
| 57.5° | 2928.6 | 2262.7 | 279.6  | 114.1  | 101.8  | 94.2   | 91.8   | 88.6   | 87.1   | 88.0   | 87.7   |
| 60°   | 3555.3 | 2860.7 | 414.6  | 106.8  | 95.9   | 88.0   | 88.0   | 85.4   | 84.2   | 85.1   | 84.8   |
| 62.5° | 4277.1 | 3547.7 | 583.0  | 101.5  | 89.5   | 83.0   | 84.2   | 83.0   | 81.6   | 82.3   | 81.9   |
| 65°   | 4917.3 | 3995.3 | 545.9  | 97.4   | 83.3   | 78.3   | 80.4   | 79.8   | 78.9   | 79.5   | 79.2   |
| 67.5° | 4935.8 | 3829.5 | 306.6  | 93.0   | 77.2   | 73.6   | 76.6   | 76.3   | 75.7   | 76.3   | 76.0   |
| 70°   | 4404.9 | 3233.5 | 172.8  | 84.8   | 71.0   | 67.8   | 72.2   | 71.9   | 71.3   | 72.5   | 72.2   |
| 72.5° | 3529.2 | 2346.5 | 126.2  | 74.8   | 64.8   | 61.9   | 66.9   | 66.6   | 66.6   | 68.4   | 67.5   |
| 75°   | 2030.8 | 1207.5 | 100.9  | 64.0   | 58.1   | 56.0   | 60.4   | 60.7   | 61.3   | 63.7   | 61.9   |
| 77.5° | 578.9  | 376.3  | 82.3   | 54.3   | 49.9   | 49.0   | 53.4   | 54.0   | 54.3   | 57.2   | 54.6   |
| 80°   | 215.1  | 173.4  | 67.8   | 45.5   | 40.8   | 41.1   | 45.2   | 46.1   | 46.4   | 49.3   | 46.1   |
| 82.5° | 137.3  | 114.4  | 54.9   | 35.2   | 32.0   | 31.7   | 36.7   | 38.1   | 38.1   | 38.4   | 36.4   |
| 85°   | 80.1   | 68.4   | 41.4   | 25.5   | 22.6   | 21.7   | 27.3   | 29.6   | 28.5   | 27.9   | 26.7   |
| 87.5° | 53.7   | 47.2   | 25.5   | 14.1   | 12.3   | 11.7   | 16.1   | 17.6   | 17.0   | 16.1   | 15.0   |
| 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)