

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: P200117

Luminaire Tested: **GAP-AF-01-LED-U-SL2-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200117  
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-SL2-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 5147.5 lumens  
Efficiency: N/A  
Efficacy: 117.0 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): 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



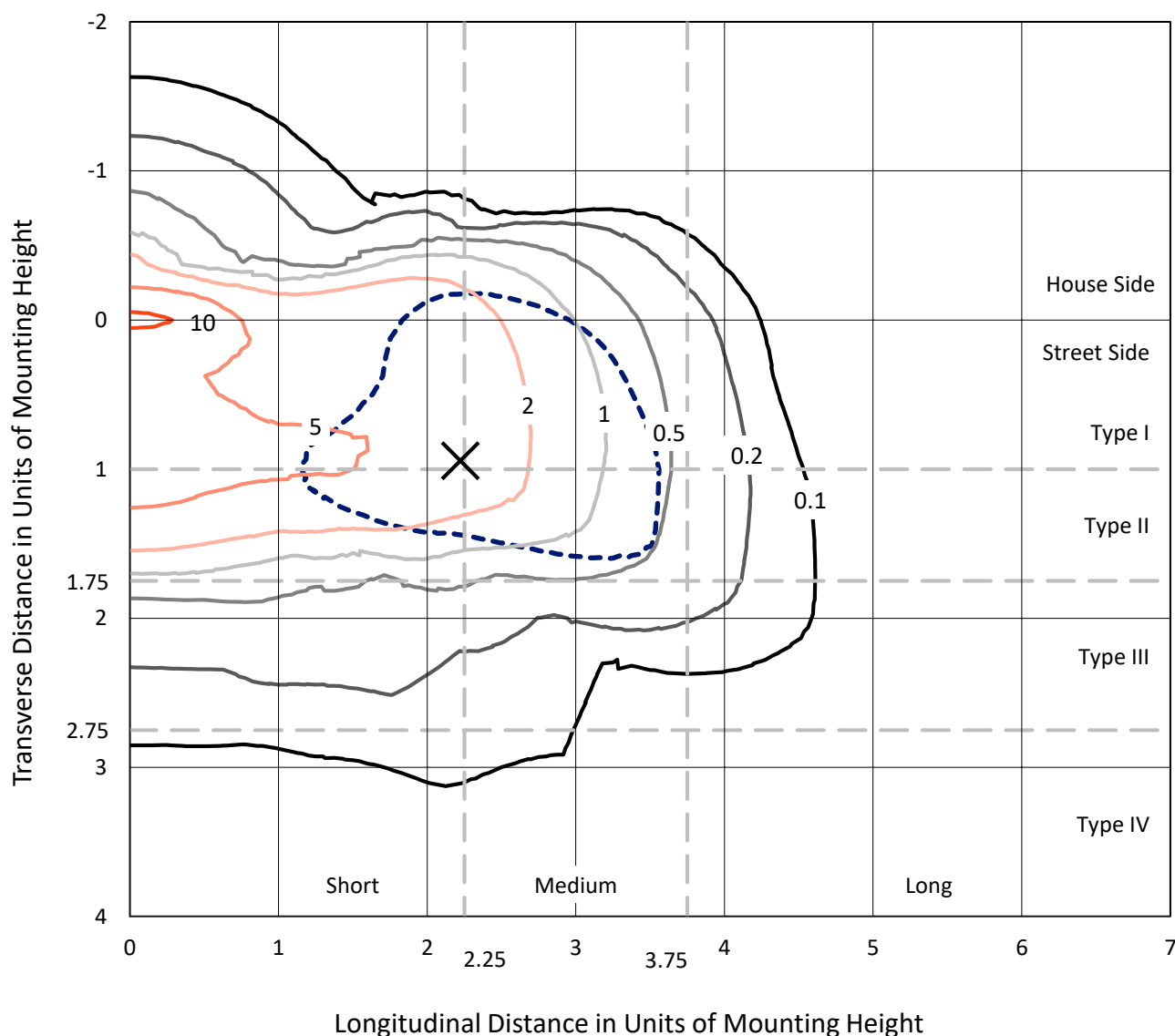
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

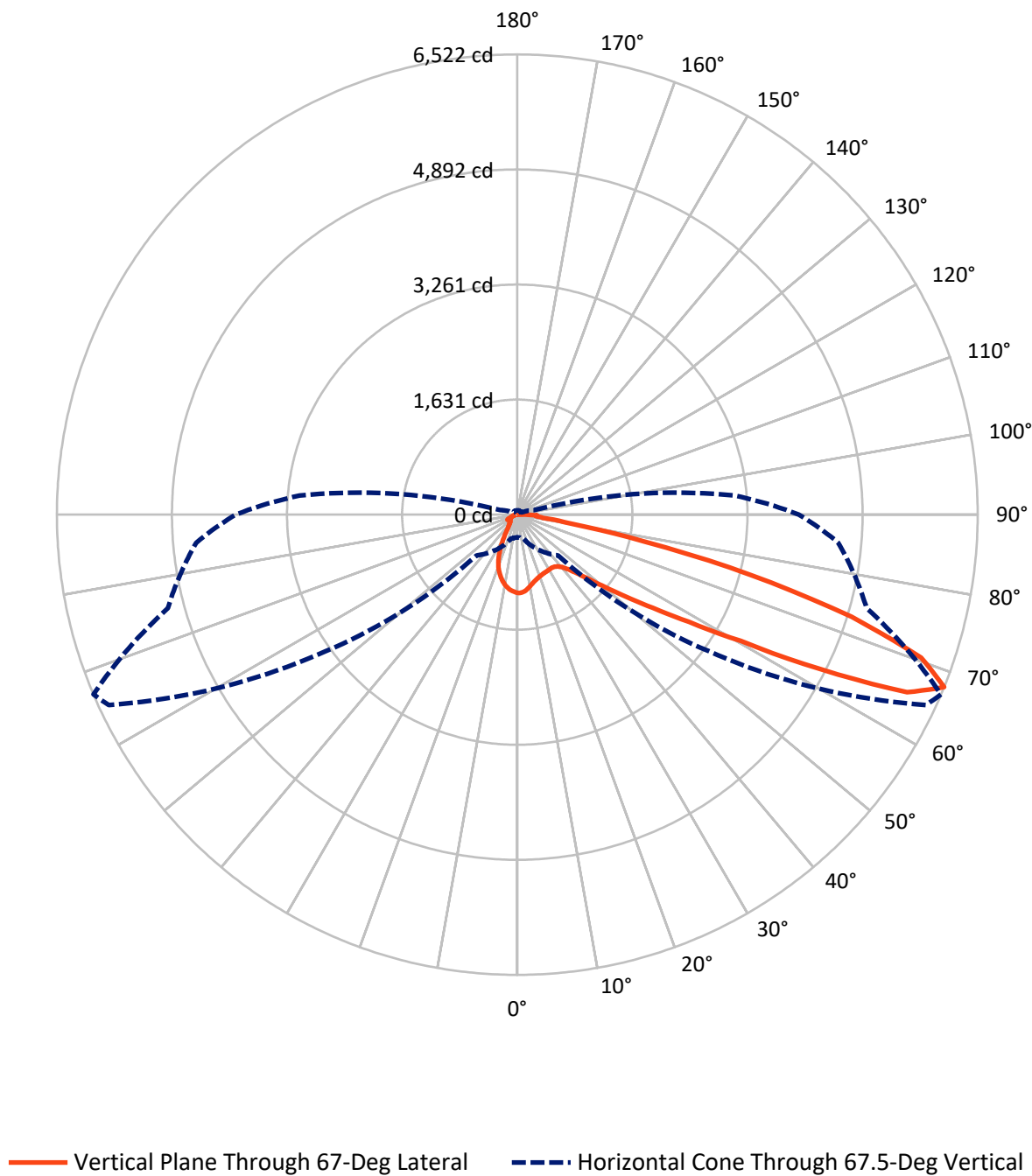


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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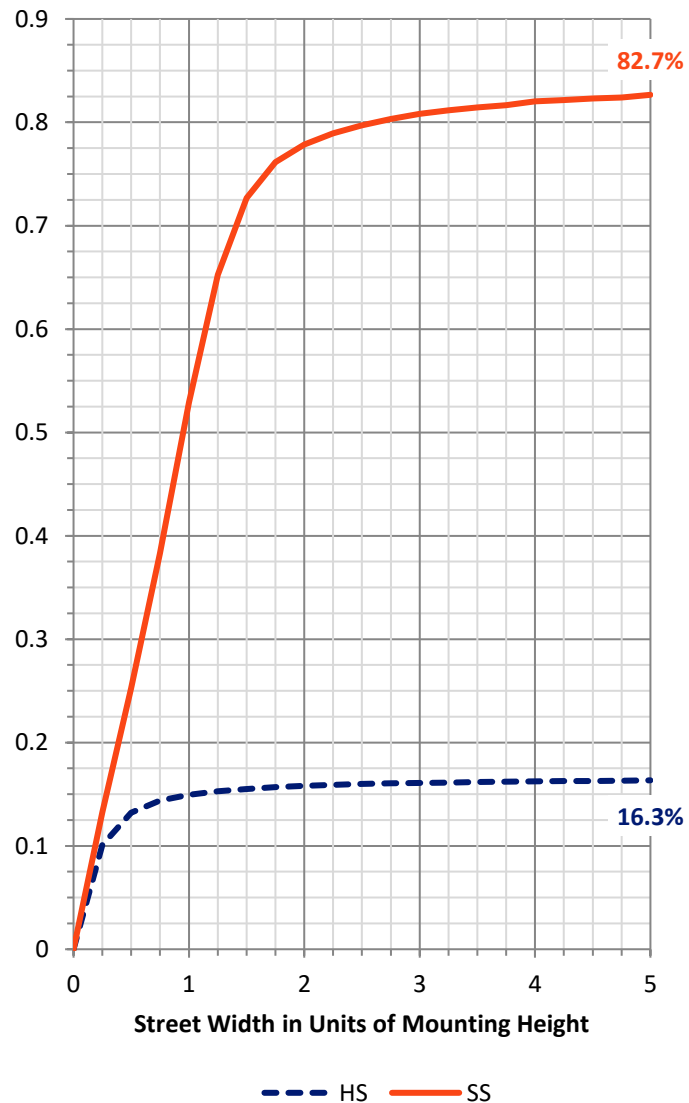
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 852.9    | 0.0    | 852.9  |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 4294.6   | 0.0    | 4294.6 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 5147.5   | 0.0    | 5147.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.7   | 1.8       |
| 10°-20°   | 219.2  | 4.3       |
| 20°-30°   | 297.1  | 5.8       |
| 30°-40°   | 422.4  | 8.2       |
| 40°-50°   | 706.6  | 13.7      |
| 50°-60°   | 1117.9 | 21.7      |
| 60°-70°   | 1424.1 | 27.7      |
| 70°-80°   | 745.9  | 14.5      |
| 80°-90°   | 119.6  | 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°    | 5147.5 | 100.0     |
| 0°-180°   | 5147.5 | 100.0     |

**Coefficient of Utilization**



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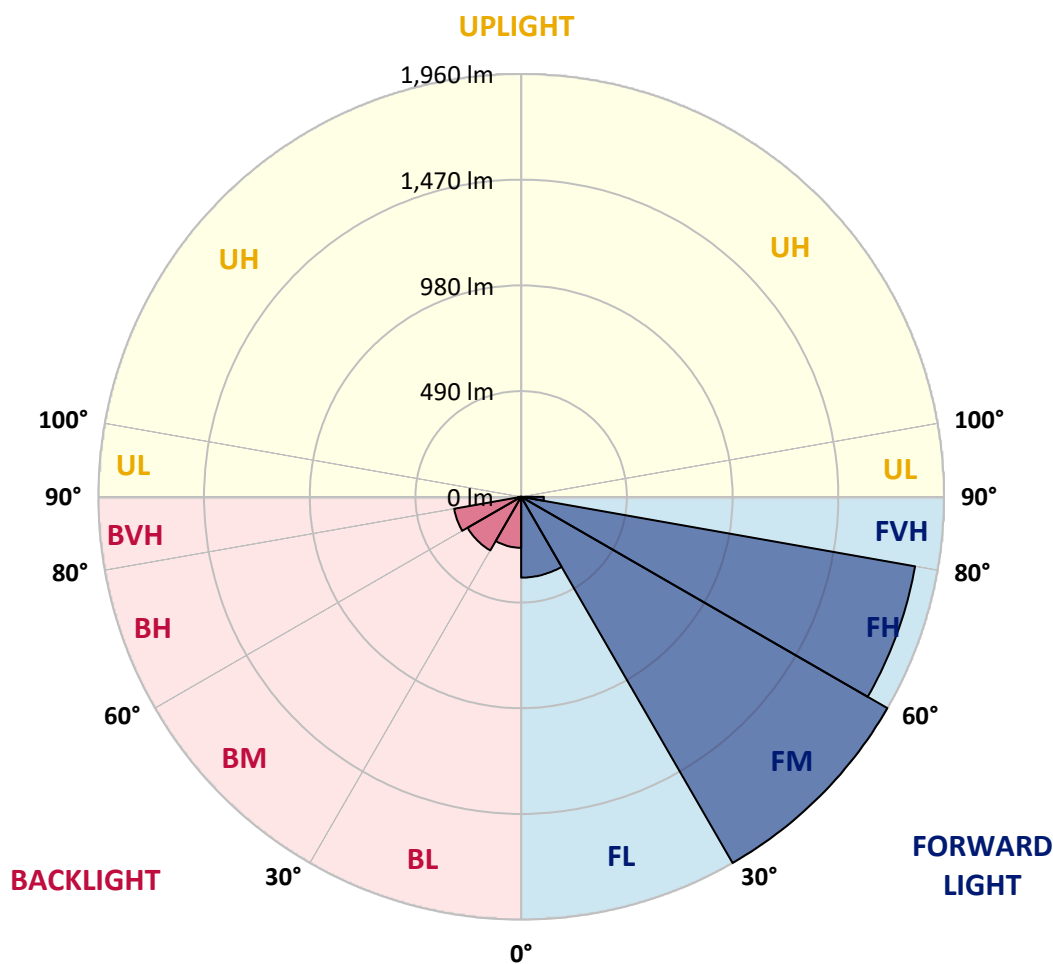
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 374.6  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 1960.3 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 1854.5 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 105.2  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 236.4  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 286.6  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 315.5  | 6.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 14.4   | 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°    | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 |
| 2.5°  | 1064.6 | 1066.4 | 1072.0 | 1075.5 | 1091.5 | 1098.3 | 1103.2 | 1108.1 | 1108.8 | 1111.0 | 1108.8 |
| 5°    | 952.9  | 956.8  | 967.1  | 978.9  | 1009.8 | 1034.1 | 1059.8 | 1086.5 | 1091.3 | 1108.6 | 1113.4 |
| 7.5°  | 866.3  | 865.3  | 874.0  | 887.9  | 919.6  | 953.4  | 998.4  | 1051.4 | 1061.8 | 1100.7 | 1119.4 |
| 10°   | 803.1  | 802.4  | 811.5  | 826.0  | 856.2  | 888.2  | 939.0  | 1011.6 | 1026.3 | 1088.2 | 1125.2 |
| 12.5° | 756.5  | 756.7  | 765.9  | 781.8  | 812.5  | 844.8  | 896.3  | 972.9  | 991.8  | 1073.8 | 1131.4 |
| 15°   | 725.5  | 727.5  | 734.9  | 751.9  | 781.8  | 814.1  | 864.6  | 944.1  | 965.2  | 1062.3 | 1138.2 |
| 17.5° | 715.0  | 718.4  | 720.9  | 733.4  | 759.0  | 791.3  | 840.8  | 922.7  | 945.0  | 1054.5 | 1144.3 |
| 20°   | 724.8  | 728.5  | 723.7  | 728.0  | 744.3  | 772.7  | 821.9  | 905.9  | 928.8  | 1045.6 | 1145.1 |
| 22.5° | 766.1  | 769.7  | 755.4  | 743.0  | 741.9  | 759.2  | 806.5  | 892.7  | 916.4  | 1039.0 | 1145.3 |
| 25°   | 838.9  | 841.3  | 817.3  | 788.4  | 760.3  | 754.4  | 795.5  | 883.6  | 908.8  | 1033.2 | 1140.5 |
| 27.5° | 928.3  | 930.1  | 902.7  | 860.0  | 803.4  | 765.9  | 791.8  | 878.3  | 904.4  | 1028.1 | 1132.4 |
| 30°   | 1037.0 | 1045.4 | 1008.5 | 954.7  | 872.2  | 799.6  | 799.3  | 875.5  | 899.6  | 1019.5 | 1116.3 |
| 32.5° | 1148.2 | 1151.6 | 1126.3 | 1071.7 | 964.8  | 859.0  | 820.7  | 877.5  | 898.4  | 1009.0 | 1096.1 |
| 35°   | 1260.8 | 1265.4 | 1248.9 | 1204.9 | 1091.5 | 946.0  | 862.3  | 889.5  | 906.2  | 1005.5 | 1081.9 |
| 37.5° | 1406.8 | 1412.9 | 1390.0 | 1339.2 | 1245.6 | 1064.1 | 931.6  | 919.4  | 930.4  | 1015.6 | 1077.6 |
| 40°   | 1637.5 | 1634.8 | 1568.0 | 1492.3 | 1414.1 | 1215.2 | 1030.6 | 970.2  | 976.5  | 1048.3 | 1090.8 |
| 42.5° | 1906.1 | 1899.2 | 1784.2 | 1665.5 | 1599.5 | 1397.9 | 1161.6 | 1058.2 | 1057.0 | 1112.9 | 1137.2 |
| 45°   | 2120.4 | 2114.7 | 2011.2 | 1864.7 | 1812.0 | 1606.0 | 1330.9 | 1189.5 | 1180.1 | 1215.2 | 1223.0 |
| 47.5° | 2236.4 | 2236.6 | 2176.9 | 2057.4 | 2056.1 | 1870.6 | 1548.4 | 1379.3 | 1363.1 | 1379.7 | 1371.3 |
| 50°   | 2195.8 | 2201.1 | 2194.7 | 2156.6 | 2279.0 | 2217.3 | 1832.5 | 1644.1 | 1611.4 | 1627.6 | 1595.4 |
| 52.5° | 1999.3 | 2006.1 | 2043.7 | 2102.1 | 2372.6 | 2636.3 | 2249.8 | 1973.1 | 1935.0 | 1929.2 | 1893.4 |
| 55°   | 1650.9 | 1659.3 | 1736.0 | 1894.7 | 2294.7 | 2917.9 | 2908.2 | 2392.5 | 2331.8 | 2276.7 | 2261.4 |
| 57.5° | 1137.9 | 1151.9 | 1275.3 | 1510.9 | 2042.6 | 3003.0 | 3692.3 | 2990.3 | 2866.9 | 2674.5 | 2678.0 |
| 60°   | 641.5  | 657.7  | 803.1  | 1017.1 | 1533.9 | 2910.5 | 4288.9 | 3895.7 | 3635.3 | 3140.3 | 3166.6 |
| 62.5° | 408.0  | 425.4  | 535.8  | 706.7  | 920.5  | 2413.0 | 4533.3 | 5154.5 | 4823.7 | 3714.4 | 3740.3 |
| 65°   | 330.2  | 337.9  | 389.9  | 583.3  | 668.4  | 1453.7 | 4347.7 | 6191.4 | 6068.0 | 4443.2 | 4322.4 |
| 67.5° | 322.3  | 324.9  | 351.8  | 489.7  | 641.0  | 817.1  | 3468.0 | 6385.4 | 6522.2 | 5123.8 | 4564.8 |
| 70°   | 318.5  | 327.4  | 396.5  | 467.3  | 613.8  | 689.2  | 2084.1 | 5853.8 | 6069.9 | 5301.7 | 4242.2 |
| 72.5° | 154.6  | 154.1  | 199.5  | 422.7  | 691.4  | 714.8  | 1070.7 | 4736.5 | 4953.2 | 4593.3 | 3486.0 |
| 75°   | 124.6  | 114.0  | 108.9  | 154.9  | 664.8  | 738.2  | 682.3  | 3259.0 | 3415.9 | 3079.6 | 2142.9 |
| 77.5° | 118.3  | 105.6  | 96.7   | 97.0   | 281.0  | 782.9  | 578.0  | 1803.8 | 1849.5 | 1391.0 | 587.2  |
| 80°   | 98.0   | 86.3   | 80.0   | 90.1   | 136.1  | 745.5  | 624.9  | 816.3  | 749.1  | 341.7  | 195.5  |
| 82.5° | 68.0   | 61.9   | 60.1   | 75.6   | 108.9  | 531.3  | 726.7  | 438.6  | 367.9  | 171.1  | 120.6  |
| 85°   | 43.4   | 37.0   | 41.1   | 55.0   | 84.8   | 245.2  | 748.6  | 342.0  | 271.9  | 108.6  | 68.0   |
| 87.5° | 20.0   | 16.3   | 20.4   | 30.5   | 55.3   | 84.5   | 712.3  | 384.0  | 280.0  | 57.4   | 42.9   |
| 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°    | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 | 1110.3 |
| 2.5°  | 1110.8 | 1106.0 | 1102.1 | 1095.1 | 1087.2 | 1079.6 | 1072.8 | 1064.1 | 1061.5 | 1059.3 | 1062.8 |
| 5°    | 1114.4 | 1109.5 | 1095.6 | 1073.8 | 1049.6 | 1027.0 | 1004.4 | 985.2  | 973.2  | 966.6  | 970.5  |
| 7.5°  | 1119.7 | 1112.9 | 1083.9 | 1043.8 | 1000.3 | 960.8  | 919.9  | 887.2  | 863.1  | 851.6  | 855.0  |
| 10°   | 1124.5 | 1111.3 | 1064.1 | 1003.9 | 940.5  | 881.6  | 817.1  | 763.8  | 724.2  | 703.4  | 708.5  |
| 12.5° | 1126.6 | 1105.5 | 1036.5 | 954.2  | 867.2  | 780.8  | 685.9  | 606.2  | 549.3  | 528.5  | 524.2  |
| 15°   | 1128.6 | 1098.9 | 1006.0 | 897.5  | 778.6  | 656.4  | 523.4  | 428.0  | 380.7  | 370.3  | 368.1  |
| 17.5° | 1129.1 | 1087.5 | 971.5  | 836.2  | 674.7  | 508.4  | 357.9  | 297.3  | 297.5  | 314.3  | 316.3  |
| 20°   | 1123.7 | 1070.4 | 929.6  | 759.7  | 550.3  | 351.6  | 245.7  | 235.3  | 273.6  | 315.5  | 320.6  |
| 22.5° | 1111.5 | 1047.8 | 882.1  | 670.6  | 408.0  | 231.5  | 190.2  | 201.5  | 251.0  | 302.3  | 308.1  |
| 25°   | 1096.1 | 1020.4 | 826.0  | 567.3  | 270.1  | 165.5  | 159.4  | 173.4  | 206.8  | 241.1  | 244.5  |
| 27.5° | 1075.0 | 988.0  | 763.0  | 449.1  | 175.4  | 136.4  | 140.3  | 149.8  | 163.5  | 178.7  | 180.2  |
| 30°   | 1047.8 | 949.1  | 695.8  | 327.4  | 132.5  | 122.7  | 128.5  | 133.5  | 139.3  | 148.0  | 148.7  |
| 32.5° | 1016.6 | 911.8  | 626.8  | 226.2  | 117.5  | 115.5  | 120.1  | 122.7  | 127.2  | 132.5  | 133.0  |
| 35°   | 990.5  | 876.3  | 555.2  | 159.9  | 111.2  | 110.2  | 113.2  | 114.3  | 118.6  | 124.4  | 124.9  |
| 37.5° | 975.5  | 847.3  | 481.3  | 129.0  | 106.9  | 105.4  | 107.1  | 107.1  | 113.2  | 121.8  | 123.2  |
| 40°   | 976.5  | 831.4  | 407.4  | 116.5  | 103.3  | 101.3  | 101.6  | 101.6  | 109.5  | 118.8  | 119.6  |
| 42.5° | 1004.2 | 835.3  | 342.0  | 111.7  | 100.6  | 98.2   | 97.0   | 97.7   | 104.3  | 110.4  | 110.9  |
| 45°   | 1069.2 | 864.1  | 280.5  | 108.6  | 97.7   | 97.0   | 94.2   | 93.9   | 96.5   | 99.2   | 99.2   |
| 47.5° | 1175.8 | 920.7  | 238.9  | 106.6  | 95.4   | 95.2   | 91.9   | 88.6   | 88.4   | 89.3   | 89.3   |
| 50°   | 1349.2 | 1018.1 | 210.9  | 104.3  | 93.9   | 91.9   | 88.1   | 83.0   | 81.2   | 82.0   | 82.0   |
| 52.5° | 1609.1 | 1192.0 | 200.3  | 101.3  | 90.6   | 87.4   | 83.0   | 77.9   | 76.4   | 76.6   | 76.6   |
| 55°   | 1950.1 | 1459.0 | 198.8  | 97.7   | 87.1   | 81.7   | 78.2   | 74.4   | 72.6   | 73.1   | 73.1   |
| 57.5° | 2366.6 | 1828.4 | 225.9  | 92.2   | 82.2   | 76.1   | 74.2   | 71.6   | 70.3   | 71.1   | 70.8   |
| 60°   | 2873.0 | 2311.8 | 335.1  | 86.3   | 77.4   | 71.1   | 71.1   | 69.0   | 68.0   | 68.7   | 68.5   |
| 62.5° | 3456.3 | 2866.9 | 471.2  | 82.0   | 72.3   | 67.0   | 68.0   | 67.0   | 66.0   | 66.5   | 66.3   |
| 65°   | 3973.7 | 3228.6 | 441.2  | 78.7   | 67.3   | 63.2   | 65.0   | 64.4   | 63.7   | 64.2   | 63.9   |
| 67.5° | 3988.6 | 3094.5 | 247.8  | 75.2   | 62.4   | 59.4   | 61.9   | 61.7   | 61.2   | 61.7   | 61.5   |
| 70°   | 3559.6 | 2613.0 | 139.6  | 68.5   | 57.4   | 54.8   | 58.4   | 58.1   | 57.6   | 58.6   | 58.4   |
| 72.5° | 2851.9 | 1896.1 | 102.1  | 60.5   | 52.3   | 50.0   | 54.1   | 53.8   | 53.8   | 55.3   | 54.6   |
| 75°   | 1641.1 | 975.8  | 81.5   | 51.8   | 47.0   | 45.2   | 48.7   | 49.0   | 49.5   | 51.6   | 50.0   |
| 77.5° | 467.8  | 304.1  | 66.5   | 43.9   | 40.4   | 39.6   | 43.2   | 43.7   | 43.9   | 46.2   | 44.2   |
| 80°   | 173.9  | 140.1  | 54.8   | 36.8   | 33.0   | 33.2   | 36.5   | 37.3   | 37.5   | 39.9   | 37.3   |
| 82.5° | 110.9  | 92.4   | 44.4   | 28.4   | 25.9   | 25.7   | 29.7   | 30.7   | 30.7   | 31.0   | 29.5   |
| 85°   | 64.8   | 55.3   | 33.6   | 20.6   | 18.3   | 17.5   | 22.1   | 23.8   | 23.1   | 22.6   | 21.6   |
| 87.5° | 43.4   | 38.1   | 20.6   | 11.5   | 9.9    | 9.4    | 13.0   | 14.2   | 13.7   | 13.0   | 12.2   |
| 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)