

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: P507595

Luminaire Tested: **VERD-S-CA1-50-740-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-50-740-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 940mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7381 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

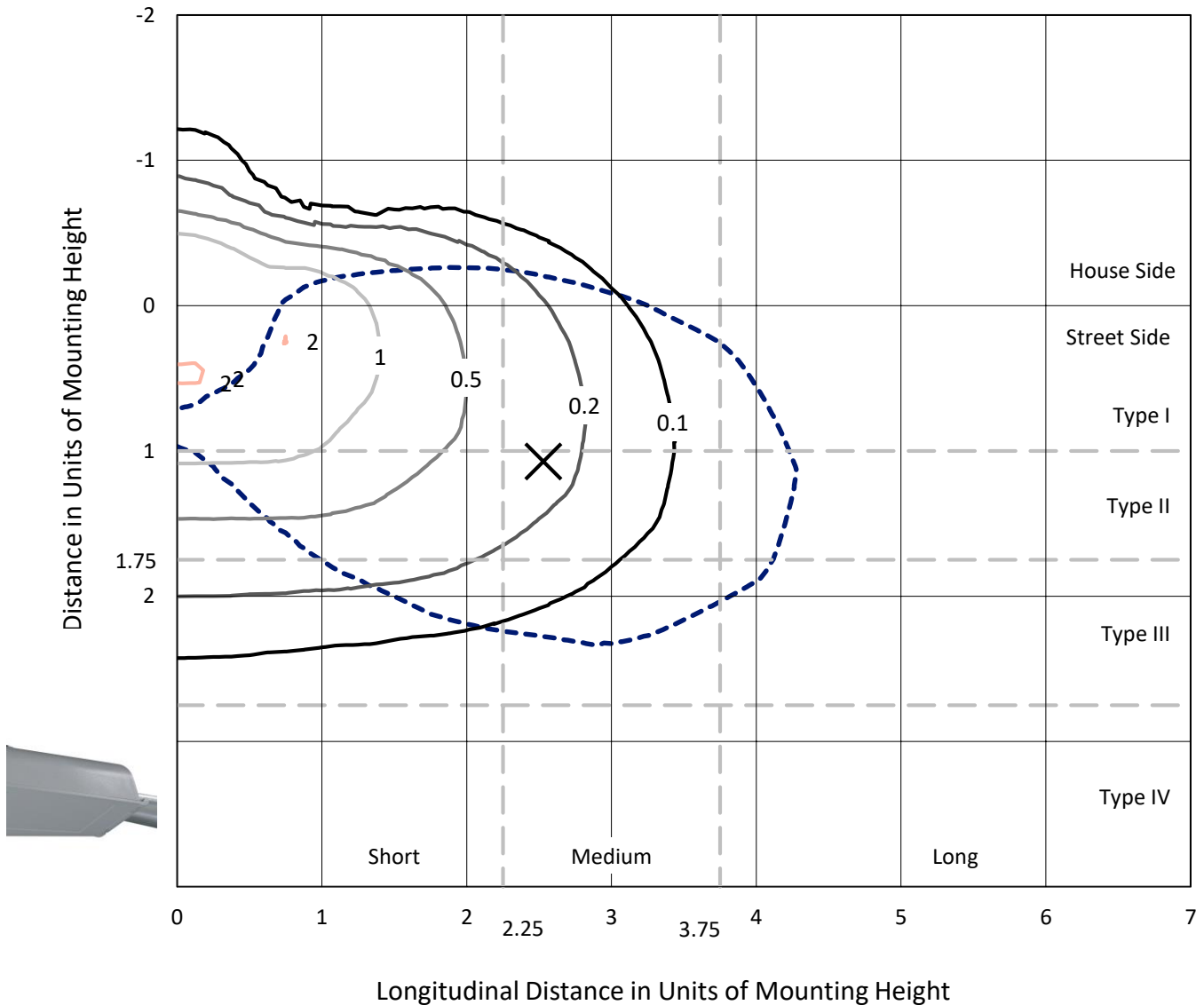
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

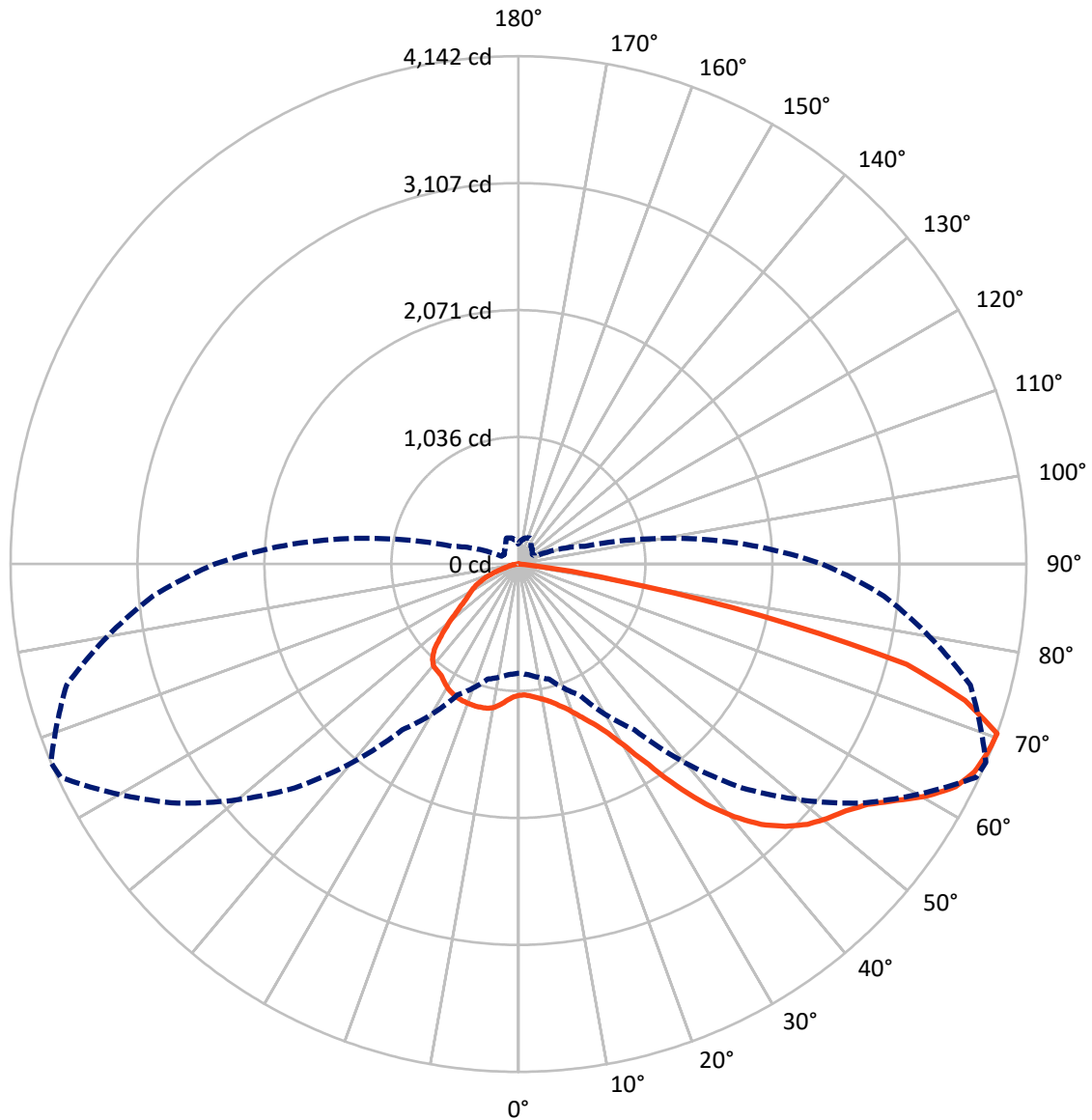
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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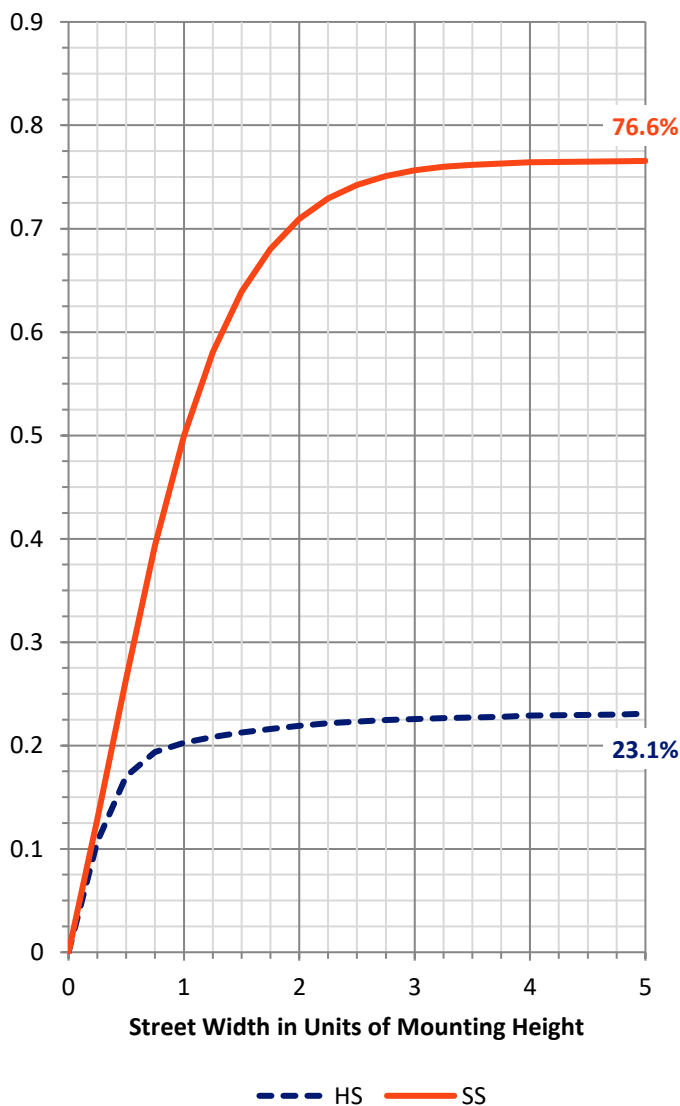
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1727.0   | 0.0    | 1727.0 |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 5654.1   | 0.0    | 5654.1 |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 7381.0   | 0.0    | 7381.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.7  | 1.5       |
| 10°-20°   | 349.9  | 4.7       |
| 20°-30°   | 617.1  | 8.4       |
| 30°-40°   | 945.9  | 12.8      |
| 40°-50°   | 1289.3 | 17.5      |
| 50°-60°   | 1525.6 | 20.7      |
| 60°-70°   | 1590.5 | 21.5      |
| 70°-80°   | 889.7  | 12.1      |
| 80°-90°   | 64.4   | 0.9       |
| 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°    | 7381.0 | 100.0     |
| 0°-180°   | 7381.0 | 100.0     |

**Coefficient of Utilization**



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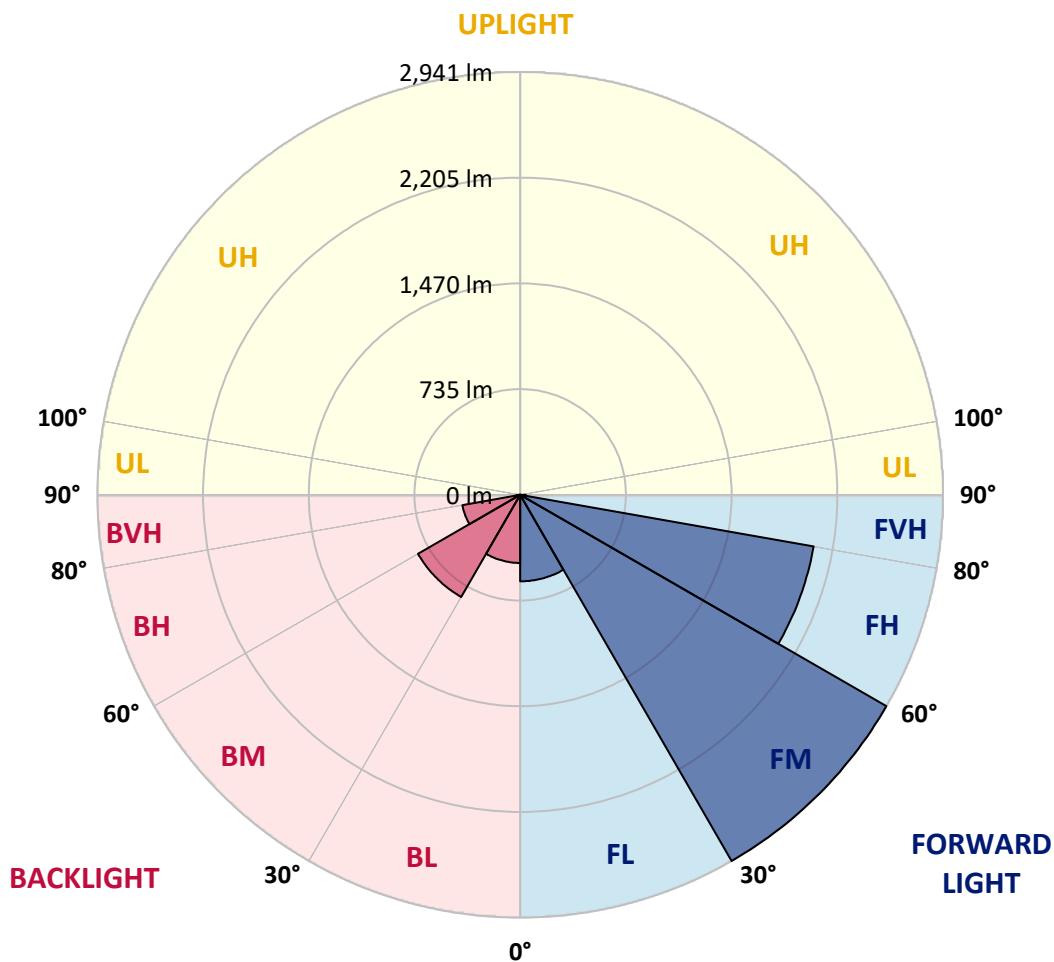
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 601.6  | 8.2       |                         |      |         |
| FM (30°-60°)   | 2940.6 | 39.8      |                         |      |         |
| FH (60°-80°)   | 2072.4 | 28.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 39.5   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 474.0  | 6.4       | B1/500                  |      |         |
| BM (30°-60°)   | 820.2  | 11.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 407.8  | 5.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.9   | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 |
| 2.5°  | 1074.8 | 1074.8 | 1074.8 | 1072.7 | 1072.7 | 1072.7 | 1070.6 | 1068.5 | 1068.5 | 1070.6 | 1070.6 |
| 5°    | 1102.1 | 1102.1 | 1100.0 | 1097.9 | 1093.7 | 1089.5 | 1085.3 | 1083.2 | 1083.2 | 1083.2 | 1085.3 |
| 7.5°  | 1139.8 | 1137.7 | 1133.5 | 1131.4 | 1125.1 | 1118.8 | 1110.4 | 1102.1 | 1102.1 | 1097.9 | 1102.1 |
| 10°   | 1185.9 | 1185.9 | 1179.6 | 1175.4 | 1167.0 | 1150.2 | 1137.7 | 1125.1 | 1123.0 | 1118.8 | 1125.1 |
| 12.5° | 1244.5 | 1244.5 | 1240.3 | 1229.9 | 1217.3 | 1196.3 | 1173.3 | 1152.3 | 1150.2 | 1144.0 | 1156.5 |
| 15°   | 1315.8 | 1309.5 | 1307.4 | 1299.0 | 1275.9 | 1248.7 | 1217.3 | 1190.0 | 1190.0 | 1179.6 | 1194.2 |
| 17.5° | 1395.4 | 1393.3 | 1391.2 | 1380.7 | 1353.5 | 1313.7 | 1271.8 | 1240.3 | 1234.0 | 1227.8 | 1236.1 |
| 20°   | 1491.8 | 1489.7 | 1487.6 | 1470.8 | 1439.4 | 1391.2 | 1340.9 | 1299.0 | 1294.8 | 1288.5 | 1282.2 |
| 22.5° | 1602.8 | 1602.8 | 1594.4 | 1581.8 | 1537.8 | 1481.3 | 1420.5 | 1368.1 | 1368.1 | 1361.9 | 1332.5 |
| 25°   | 1709.6 | 1705.5 | 1701.3 | 1686.6 | 1651.0 | 1590.2 | 1519.0 | 1458.2 | 1449.8 | 1449.8 | 1399.6 |
| 27.5° | 1808.1 | 1808.1 | 1814.4 | 1806.0 | 1770.4 | 1707.6 | 1636.3 | 1567.2 | 1563.0 | 1554.6 | 1477.1 |
| 30°   | 1910.8 | 1915.0 | 1917.1 | 1917.1 | 1900.3 | 1852.1 | 1774.6 | 1722.2 | 1730.6 | 1709.6 | 1592.3 |
| 32.5° | 1988.3 | 1992.5 | 2019.7 | 2044.9 | 2030.2 | 2003.0 | 1959.0 | 1942.2 | 1950.6 | 1967.4 | 1839.5 |
| 35°   | 2061.6 | 2067.9 | 2105.6 | 2158.0 | 2181.1 | 2168.5 | 2174.8 | 2204.1 | 2223.0 | 2290.0 | 2179.0 |
| 37.5° | 2116.1 | 2122.4 | 2155.9 | 2220.9 | 2290.0 | 2325.6 | 2384.3 | 2449.2 | 2484.9 | 2570.8 | 2411.5 |
| 40°   | 2130.8 | 2141.2 | 2210.4 | 2298.4 | 2403.1 | 2510.0 | 2581.2 | 2665.0 | 2709.0 | 2748.8 | 2568.7 |
| 42.5° | 2080.5 | 2091.0 | 2181.1 | 2365.4 | 2512.1 | 2675.5 | 2753.0 | 2868.3 | 2903.9 | 2880.8 | 2690.2 |
| 45°   | 2049.1 | 2055.3 | 2147.5 | 2359.1 | 2606.4 | 2834.7 | 2910.2 | 3031.7 | 3052.6 | 2996.1 | 2794.9 |
| 47.5° | 2005.1 | 2011.3 | 2109.8 | 2348.7 | 2681.8 | 2973.0 | 3025.4 | 3144.8 | 3172.1 | 3092.4 | 2874.6 |
| 50°   | 1940.1 | 1948.5 | 2061.6 | 2329.8 | 2732.1 | 3067.3 | 3123.9 | 3247.5 | 3262.2 | 3178.4 | 2958.4 |
| 52.5° | 1862.6 | 1875.2 | 1994.6 | 2290.0 | 2765.6 | 3128.1 | 3201.4 | 3329.2 | 3343.9 | 3289.4 | 3048.5 |
| 55°   | 1768.3 | 1780.9 | 1908.7 | 2231.3 | 2755.1 | 3146.9 | 3234.9 | 3434.0 | 3459.1 | 3415.1 | 3126.0 |
| 57.5° | 1676.1 | 1684.5 | 1816.5 | 2145.4 | 2696.5 | 3176.3 | 3335.5 | 3603.7 | 3637.2 | 3545.0 | 3188.8 |
| 60°   | 1565.1 | 1583.9 | 1711.7 | 2028.1 | 2606.4 | 3205.6 | 3465.4 | 3806.9 | 3838.3 | 3670.7 | 3237.0 |
| 62.5° | 1449.8 | 1466.6 | 1579.7 | 1881.4 | 2466.0 | 3178.4 | 3563.9 | 3982.9 | 4001.7 | 3771.3 | 3253.8 |
| 65°   | 1315.8 | 1317.9 | 1422.6 | 1695.0 | 2264.9 | 3067.3 | 3572.2 | 4068.8 | 4087.6 | 3834.1 | 3224.4 |
| 67.5° | 1137.7 | 1137.7 | 1225.7 | 1458.2 | 1994.6 | 2866.2 | 3496.8 | 4096.0 | 4123.3 | 3876.0 | 3153.2 |
| 70°   | 890.4  | 905.1  | 972.2  | 1179.6 | 1651.0 | 2581.2 | 3400.4 | 4117.0 | 4142.1 | 3815.3 | 2991.9 |
| 72.5° | 622.3  | 618.1  | 687.2  | 812.9  | 1194.2 | 2059.5 | 3033.8 | 3809.0 | 3809.0 | 3505.2 | 2696.5 |
| 75°   | 190.7  | 213.7  | 245.1  | 328.9  | 544.7  | 1380.7 | 2484.9 | 3228.6 | 3270.5 | 3035.9 | 2223.0 |
| 77.5° | 62.9   | 62.9   | 73.3   | 90.1   | 117.3  | 293.3  | 1242.4 | 1977.8 | 2011.3 | 1975.7 | 1376.5 |
| 80°   | 50.3   | 50.3   | 56.6   | 64.9   | 75.4   | 150.9  | 437.9  | 741.7  | 796.2  | 877.9  | 569.9  |
| 82.5° | 35.6   | 35.6   | 37.7   | 39.8   | 37.7   | 60.8   | 115.2  | 196.9  | 201.1  | 217.9  | 184.4  |
| 85°   | 23.0   | 21.0   | 21.0   | 18.9   | 16.8   | 16.8   | 14.7   | 14.7   | 16.8   | 16.8   | 21.0   |
| 87.5° | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 6.3    | 6.3    | 6.3    | 6.3    |
| 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°    | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 | 1070.6 |
| 2.5°  | 1072.7 | 1074.8 | 1081.1 | 1085.3 | 1089.5 | 1093.7 | 1095.8 | 1097.9 | 1097.9 | 1100.0 | 1100.0 |
| 5°    | 1087.4 | 1091.6 | 1102.1 | 1112.5 | 1129.3 | 1146.0 | 1160.7 | 1169.1 | 1171.2 | 1179.6 | 1179.6 |
| 7.5°  | 1106.2 | 1112.5 | 1137.7 | 1156.5 | 1181.7 | 1200.5 | 1217.3 | 1225.7 | 1234.0 | 1238.2 | 1238.2 |
| 10°   | 1135.6 | 1144.0 | 1169.1 | 1190.0 | 1211.0 | 1225.7 | 1236.1 | 1242.4 | 1244.5 | 1246.6 | 1246.6 |
| 12.5° | 1164.9 | 1175.4 | 1190.0 | 1206.8 | 1219.4 | 1227.8 | 1234.0 | 1236.1 | 1236.1 | 1236.1 | 1236.1 |
| 15°   | 1196.3 | 1200.5 | 1204.7 | 1208.9 | 1215.2 | 1217.3 | 1217.3 | 1215.2 | 1211.0 | 1208.9 | 1208.9 |
| 17.5° | 1227.8 | 1223.6 | 1217.3 | 1208.9 | 1200.5 | 1194.2 | 1185.9 | 1177.5 | 1171.2 | 1167.0 | 1169.1 |
| 20°   | 1265.5 | 1252.9 | 1225.7 | 1204.7 | 1181.7 | 1158.6 | 1139.8 | 1123.0 | 1110.4 | 1108.3 | 1110.4 |
| 22.5° | 1309.5 | 1284.3 | 1240.3 | 1196.3 | 1156.5 | 1114.6 | 1074.8 | 1051.8 | 1039.2 | 1028.7 | 1028.7 |
| 25°   | 1361.9 | 1322.0 | 1252.9 | 1183.8 | 1120.9 | 1053.9 | 999.4  | 963.8  | 942.8  | 930.2  | 934.4  |
| 27.5° | 1422.6 | 1372.3 | 1265.5 | 1164.9 | 1068.5 | 980.5  | 909.3  | 852.7  | 829.7  | 812.9  | 815.0  |
| 30°   | 1510.6 | 1431.0 | 1280.1 | 1137.7 | 1001.5 | 890.4  | 796.2  | 729.1  | 689.3  | 676.7  | 680.9  |
| 32.5° | 1707.6 | 1556.7 | 1296.9 | 1097.9 | 926.1  | 783.6  | 657.9  | 576.2  | 534.3  | 534.3  | 532.2  |
| 35°   | 2036.5 | 1818.6 | 1336.7 | 1049.7 | 842.3  | 664.2  | 502.8  | 427.4  | 425.3  | 433.7  | 435.8  |
| 37.5° | 2267.0 | 2059.5 | 1460.3 | 1003.6 | 750.1  | 519.6  | 372.9  | 352.0  | 372.9  | 381.3  | 379.2  |
| 40°   | 2415.7 | 2204.1 | 1602.8 | 955.4  | 620.2  | 372.9  | 295.4  | 280.8  | 301.7  | 318.5  | 331.0  |
| 42.5° | 2537.2 | 2304.7 | 1667.7 | 892.5  | 463.0  | 268.2  | 217.9  | 213.7  | 245.1  | 268.2  | 276.6  |
| 45°   | 2633.6 | 2396.9 | 1676.1 | 804.5  | 314.3  | 199.0  | 178.1  | 196.9  | 234.7  | 253.5  | 255.6  |
| 47.5° | 2711.1 | 2472.3 | 1653.1 | 664.2  | 209.5  | 173.9  | 173.9  | 199.0  | 234.7  | 253.5  | 253.5  |
| 50°   | 2786.6 | 2535.1 | 1594.4 | 540.5  | 188.6  | 169.7  | 176.0  | 201.1  | 232.6  | 247.2  | 247.2  |
| 52.5° | 2849.4 | 2577.0 | 1491.8 | 431.6  | 182.3  | 165.5  | 176.0  | 201.1  | 228.4  | 234.7  | 230.5  |
| 55°   | 2906.0 | 2593.8 | 1399.6 | 347.8  | 176.0  | 163.4  | 180.2  | 205.3  | 226.3  | 226.3  | 217.9  |
| 57.5° | 2937.4 | 2554.0 | 1330.4 | 287.0  | 169.7  | 163.4  | 182.3  | 209.5  | 232.6  | 236.8  | 230.5  |
| 60°   | 2937.4 | 2497.4 | 1255.0 | 253.5  | 165.5  | 163.4  | 182.3  | 224.2  | 276.6  | 255.6  | 253.5  |
| 62.5° | 2897.6 | 2436.7 | 1141.9 | 226.3  | 159.2  | 165.5  | 184.4  | 249.3  | 337.3  | 253.5  | 243.0  |
| 65°   | 2828.5 | 2319.3 | 993.1  | 201.1  | 152.9  | 167.6  | 182.3  | 287.0  | 402.3  | 245.1  | 215.8  |
| 67.5° | 2698.6 | 2132.9 | 808.7  | 176.0  | 144.6  | 163.4  | 178.1  | 264.0  | 247.2  | 203.2  | 182.3  |
| 70°   | 2474.4 | 1854.2 | 561.5  | 152.9  | 138.3  | 159.2  | 178.1  | 232.6  | 220.0  | 186.5  | 163.4  |
| 72.5° | 2141.2 | 1521.1 | 301.7  | 125.7  | 121.5  | 150.9  | 173.9  | 213.7  | 188.6  | 152.9  | 138.3  |
| 75°   | 1644.7 | 1081.1 | 184.4  | 98.5   | 100.6  | 134.1  | 161.3  | 203.2  | 180.2  | 146.7  | 127.8  |
| 77.5° | 949.1  | 500.7  | 132.0  | 73.3   | 71.2   | 106.9  | 144.6  | 188.6  | 176.0  | 142.5  | 123.6  |
| 80°   | 347.8  | 207.4  | 90.1   | 54.5   | 48.2   | 77.5   | 113.1  | 152.9  | 167.6  | 140.4  | 125.7  |
| 82.5° | 148.8  | 111.0  | 58.7   | 37.7   | 35.6   | 44.0   | 69.1   | 106.9  | 140.4  | 113.1  | 104.8  |
| 85°   | 21.0   | 21.0   | 21.0   | 18.9   | 21.0   | 27.2   | 29.3   | 52.4   | 77.5   | 41.9   | 41.9   |
| 87.5° | 8.4    | 8.4    | 8.4    | 8.4    | 10.5   | 10.5   | 8.4    | 8.4    | 6.3    | 6.3    | 6.3    |
| 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)