

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: P507640

Luminaire Tested: **VERD-S-CA1-60-740-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-60-740-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1150mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8058 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

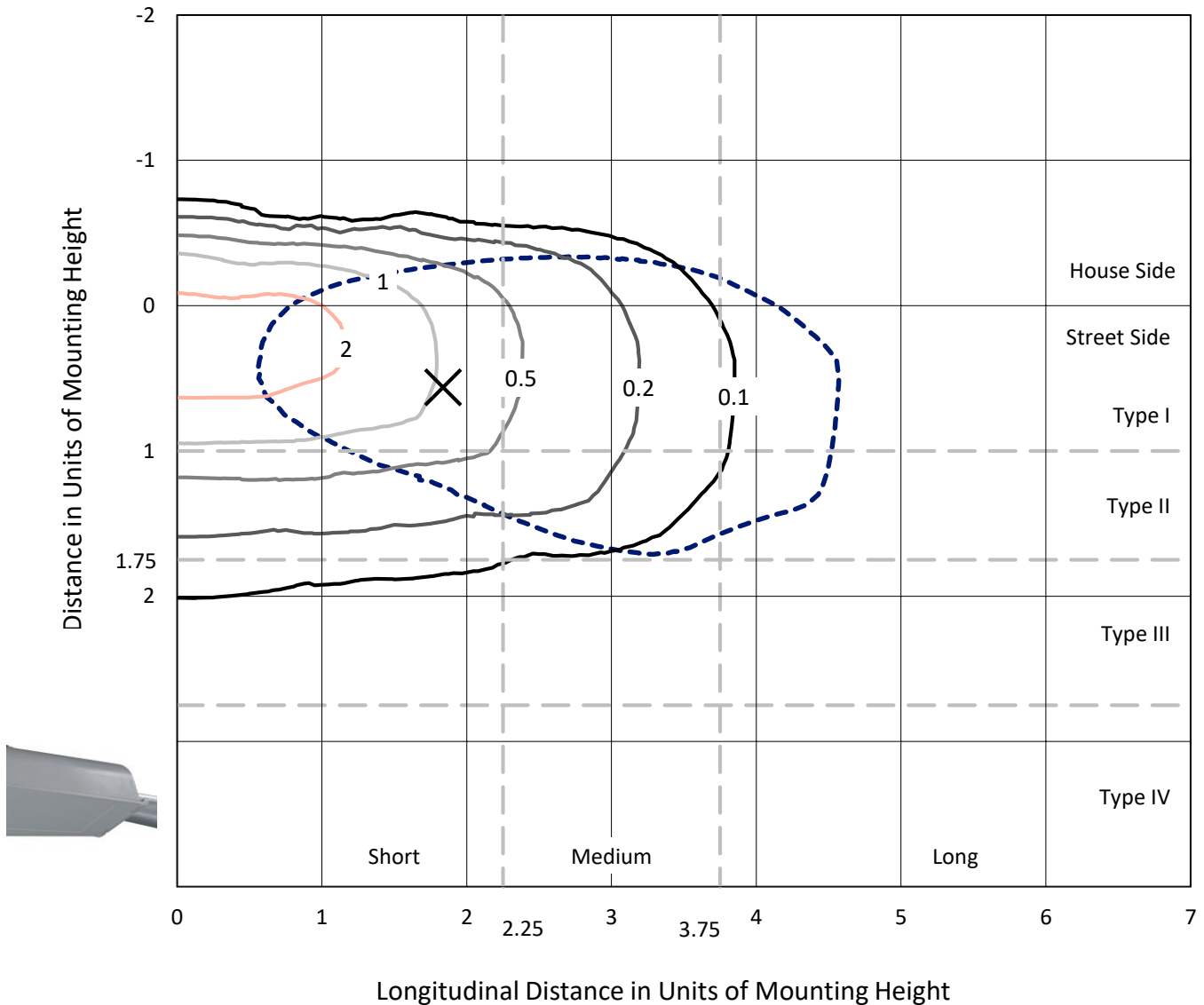
Input Watts (W): 63.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

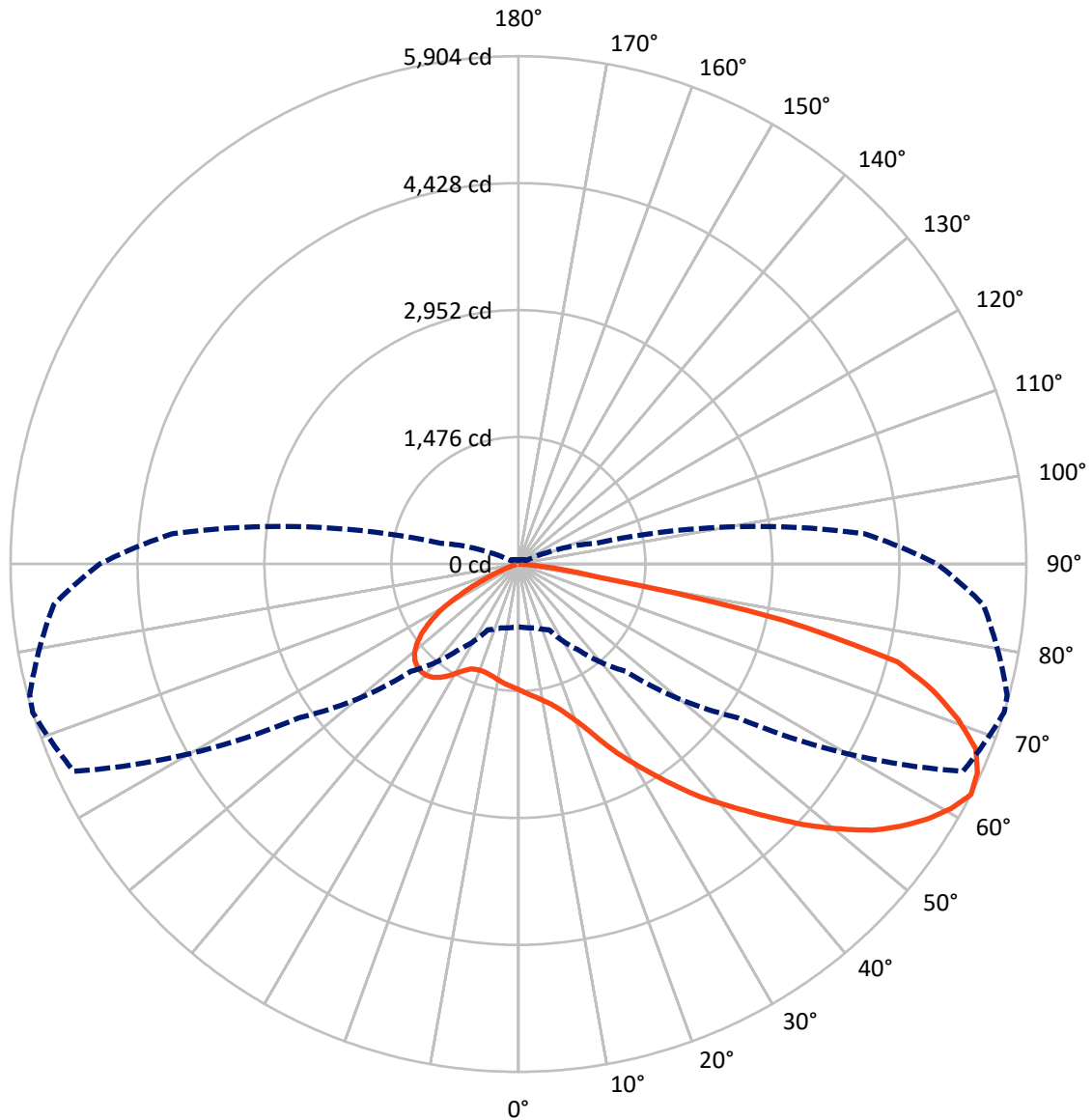
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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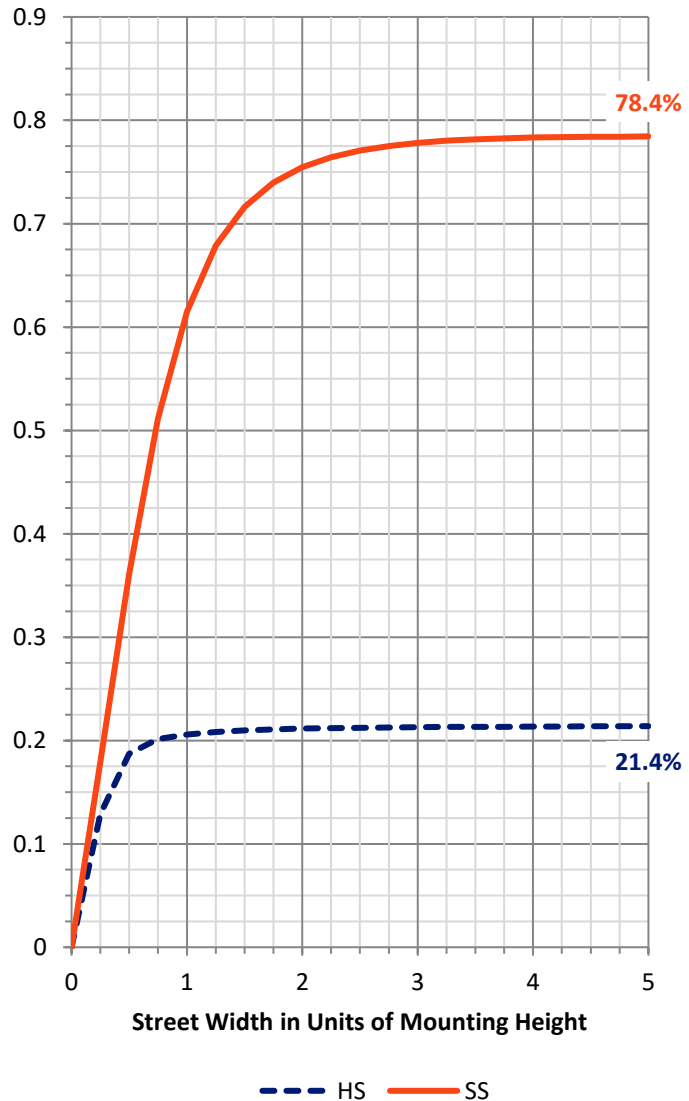
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1745.4   | 0.0    | 1745.4 |
|                    | % Fixture | 21.7     | 0.0    | 21.7   |
| <b>Street Side</b> | Lumens    | 6312.6   | 0.0    | 6312.6 |
|                    | % Fixture | 78.3     | 0.0    | 78.3   |
| <b>Total</b>       | Lumens    | 8058.0   | 0.0    | 8058.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.0  | 1.7       |
| 10°-20°   | 421.4  | 5.2       |
| 20°-30°   | 729.0  | 9.0       |
| 30°-40°   | 1070.6 | 13.3      |
| 40°-50°   | 1391.6 | 17.3      |
| 50°-60°   | 1613.4 | 20.0      |
| 60°-70°   | 1623.8 | 20.2      |
| 70°-80°   | 989.5  | 12.3      |
| 80°-90°   | 78.8   | 1.0       |
| 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°    | 8058.0 | 100.0     |
| 0°-180°   | 8058.0 | 100.0     |

**Coefficient of Utilization**



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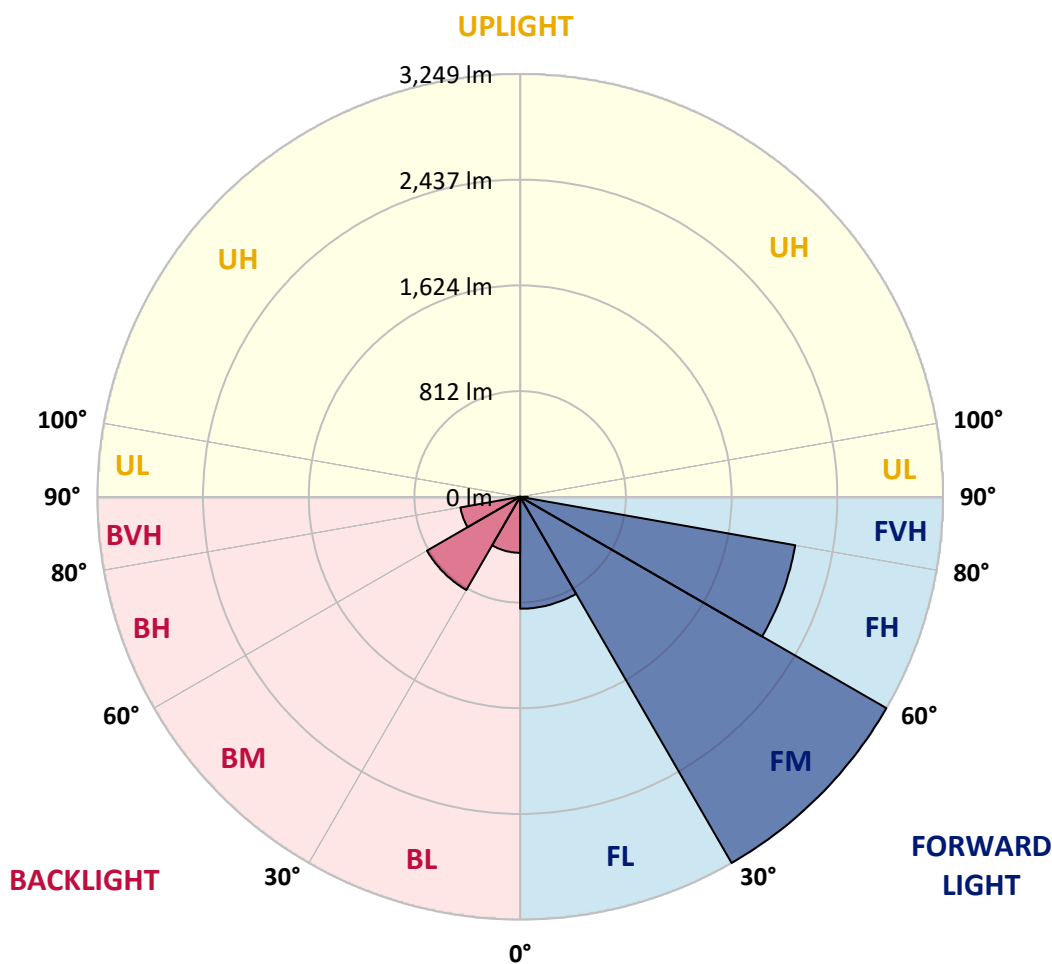
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 860.1  | 10.7      |                         |      |         |
| FM (30°-60°)   | 3248.8 | 40.3      |                         |      |         |
| FH (60°-80°)   | 2146.5 | 26.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 57.3   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 430.3  | 5.3       | B1/500                  |      |         |
| BM (30°-60°)   | 826.8  | 10.3      | B1/1000                 |      |         |
| BH (60°-80°)   | 466.8  | 5.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 21.6   | 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°    | 73°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 |
| 2.5°  | 1562.2 | 1562.2 | 1559.7 | 1557.3 | 1547.4 | 1537.6 | 1522.8 | 1510.5 | 1498.2 | 1493.3 | 1473.6 |
| 5°    | 1653.2 | 1653.2 | 1650.8 | 1640.9 | 1628.6 | 1611.4 | 1586.8 | 1554.8 | 1532.7 | 1530.2 | 1495.8 |
| 7.5°  | 1729.5 | 1727.0 | 1724.6 | 1719.7 | 1707.4 | 1685.2 | 1648.3 | 1606.5 | 1569.6 | 1559.7 | 1517.9 |
| 10°   | 1803.3 | 1805.8 | 1800.8 | 1788.5 | 1773.8 | 1746.7 | 1709.8 | 1660.6 | 1616.3 | 1601.6 | 1537.6 |
| 12.5° | 1882.0 | 1879.6 | 1872.2 | 1857.4 | 1837.7 | 1815.6 | 1776.2 | 1727.0 | 1668.0 | 1653.2 | 1569.6 |
| 15°   | 1948.5 | 1950.9 | 1938.6 | 1928.8 | 1909.1 | 1884.5 | 1850.0 | 1800.8 | 1741.8 | 1724.6 | 1616.3 |
| 17.5° | 2007.5 | 2007.5 | 2005.0 | 2000.1 | 1985.4 | 1968.1 | 1933.7 | 1899.3 | 1837.7 | 1810.7 | 1687.7 |
| 20°   | 2051.8 | 2054.2 | 2059.2 | 2069.0 | 2071.5 | 2056.7 | 2039.5 | 2014.9 | 1955.8 | 1928.8 | 1776.2 |
| 22.5° | 2091.1 | 2096.1 | 2115.7 | 2145.3 | 2169.9 | 2169.9 | 2167.4 | 2165.0 | 2105.9 | 2088.7 | 1906.6 |
| 25°   | 2101.0 | 2108.4 | 2152.7 | 2216.6 | 2256.0 | 2288.0 | 2332.2 | 2349.5 | 2305.2 | 2275.7 | 2076.4 |
| 27.5° | 2115.7 | 2123.1 | 2172.3 | 2248.6 | 2347.0 | 2418.3 | 2497.1 | 2541.4 | 2509.4 | 2479.9 | 2270.7 |
| 30°   | 2103.4 | 2113.3 | 2167.4 | 2275.7 | 2406.0 | 2556.1 | 2654.5 | 2721.0 | 2711.1 | 2693.9 | 2472.5 |
| 32.5° | 2071.5 | 2081.3 | 2145.3 | 2278.1 | 2477.4 | 2696.3 | 2807.1 | 2910.4 | 2937.4 | 2922.7 | 2684.0 |
| 35°   | 2007.5 | 2017.3 | 2096.1 | 2258.4 | 2511.8 | 2802.1 | 2959.6 | 3112.1 | 3173.6 | 3163.8 | 2915.3 |
| 37.5° | 1926.3 | 1926.3 | 2019.8 | 2199.4 | 2524.1 | 2883.3 | 3094.9 | 3313.9 | 3434.4 | 3419.6 | 3149.0 |
| 40°   | 1791.0 | 1815.6 | 1931.2 | 2135.4 | 2504.5 | 2942.4 | 3225.3 | 3523.0 | 3673.0 | 3665.7 | 3402.4 |
| 42.5° | 1655.7 | 1675.4 | 1786.1 | 2024.7 | 2457.7 | 2976.8 | 3333.5 | 3741.9 | 3936.3 | 3931.4 | 3646.0 |
| 45°   | 1535.1 | 1549.9 | 1640.9 | 1872.2 | 2359.3 | 2986.6 | 3436.9 | 3975.6 | 4226.6 | 4216.7 | 3894.5 |
| 47.5° | 1380.2 | 1409.7 | 1525.3 | 1729.5 | 2224.0 | 2957.1 | 3532.8 | 4268.4 | 4541.5 | 4531.6 | 4162.6 |
| 50°   | 1045.6 | 1065.3 | 1306.4 | 1613.9 | 2049.3 | 2883.3 | 3611.5 | 4556.2 | 4839.2 | 4819.5 | 4406.2 |
| 52.5° | 949.6  | 961.9  | 1038.2 | 1471.2 | 1887.0 | 2750.5 | 3660.7 | 4900.7 | 5141.8 | 5109.8 | 4657.1 |
| 55°   | 888.1  | 898.0  | 942.2  | 1178.4 | 1744.3 | 2526.6 | 3675.5 | 5225.4 | 5385.3 | 5353.3 | 4888.4 |
| 57.5° | 834.0  | 838.9  | 883.2  | 1003.8 | 1574.5 | 2243.7 | 3623.8 | 5466.5 | 5599.4 | 5564.9 | 5087.6 |
| 60°   | 777.4  | 784.8  | 826.6  | 915.2  | 1370.3 | 1982.9 | 3463.9 | 5658.4 | 5776.5 | 5747.0 | 5262.3 |
| 62.5° | 730.7  | 740.5  | 767.6  | 843.8  | 1222.7 | 1761.5 | 3114.6 | 5702.7 | 5904.4 | 5882.3 | 5424.7 |
| 65°   | 674.1  | 681.5  | 715.9  | 779.9  | 1070.2 | 1623.7 | 2760.3 | 5572.3 | 5862.6 | 5889.7 | 5515.7 |
| 67.5° | 607.7  | 615.0  | 644.6  | 693.8  | 898.0  | 1478.6 | 2450.3 | 5387.8 | 5734.7 | 5771.6 | 5449.3 |
| 70°   | 526.5  | 531.4  | 560.9  | 607.7  | 745.4  | 1289.1 | 2125.6 | 5117.2 | 5424.7 | 5451.7 | 5186.0 |
| 72.5° | 437.9  | 437.9  | 460.1  | 514.2  | 612.6  | 1067.7 | 1704.9 | 4546.4 | 5045.8 | 5112.2 | 4740.8 |
| 75°   | 184.5  | 194.4  | 233.7  | 282.9  | 391.2  | 779.9  | 1166.1 | 3500.8 | 4551.3 | 4607.9 | 4187.2 |
| 77.5° | 36.9   | 39.4   | 44.3   | 66.4   | 103.3  | 339.5  | 361.6  | 1527.8 | 3158.9 | 3195.8 | 3058.0 |
| 80°   | 29.5   | 29.5   | 32.0   | 49.2   | 68.9   | 157.5  | 118.1  | 499.4  | 984.1  | 1267.0 | 1633.6 |
| 82.5° | 9.8    | 12.3   | 17.2   | 27.1   | 34.4   | 34.4   | 39.4   | 250.9  | 487.1  | 524.0  | 659.3  |
| 85°   | 4.9    | 4.9    | 7.4    | 9.8    | 9.8    | 9.8    | 9.8    | 44.3   | 83.6   | 100.9  | 140.2  |
| 87.5° | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    | 4.9    | 7.4    | 7.4    | 9.8    |
| 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°    | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 | 1463.8 |
| 2.5°  | 1463.8 | 1456.4 | 1439.2 | 1426.9 | 1409.7 | 1394.9 | 1377.7 | 1367.9 | 1362.9 | 1360.5 | 1355.6 |
| 5°    | 1476.1 | 1456.4 | 1422.0 | 1385.1 | 1353.1 | 1328.5 | 1294.1 | 1276.8 | 1267.0 | 1262.1 | 1259.6 |
| 7.5°  | 1490.9 | 1466.3 | 1407.2 | 1350.6 | 1294.1 | 1252.2 | 1210.4 | 1183.3 | 1171.0 | 1168.6 | 1166.1 |
| 10°   | 1500.7 | 1461.3 | 1382.6 | 1321.1 | 1247.3 | 1180.9 | 1131.7 | 1099.7 | 1082.5 | 1080.0 | 1077.6 |
| 12.5° | 1520.4 | 1468.7 | 1362.9 | 1274.4 | 1198.1 | 1112.0 | 1060.3 | 1023.4 | 1006.2 | 991.4  | 991.4  |
| 15°   | 1552.4 | 1485.9 | 1353.1 | 1235.0 | 1134.1 | 1050.5 | 984.1  | 944.7  | 932.4  | 912.7  | 907.8  |
| 17.5° | 1606.5 | 1517.9 | 1345.7 | 1195.6 | 1075.1 | 991.4  | 912.7  | 870.9  | 863.5  | 846.3  | 836.5  |
| 20°   | 1672.9 | 1564.7 | 1350.6 | 1158.7 | 1013.6 | 917.6  | 838.9  | 797.1  | 772.5  | 757.7  | 752.8  |
| 22.5° | 1778.7 | 1633.6 | 1367.9 | 1131.7 | 959.5  | 851.2  | 767.6  | 701.1  | 647.0  | 627.3  | 627.3  |
| 25°   | 1928.8 | 1751.6 | 1397.4 | 1109.5 | 905.3  | 787.3  | 683.9  | 570.8  | 499.4  | 472.4  | 465.0  |
| 27.5° | 2098.5 | 1901.7 | 1466.3 | 1089.9 | 861.1  | 715.9  | 563.4  | 437.9  | 361.6  | 337.0  | 337.0  |
| 30°   | 2292.9 | 2059.2 | 1549.9 | 1077.6 | 806.9  | 607.7  | 425.6  | 319.8  | 258.3  | 231.3  | 228.8  |
| 32.5° | 2484.8 | 2221.5 | 1648.3 | 1067.7 | 750.4  | 474.8  | 307.5  | 233.7  | 182.1  | 162.4  | 164.8  |
| 35°   | 2676.7 | 2381.4 | 1732.0 | 1067.7 | 656.9  | 342.0  | 219.0  | 162.4  | 130.4  | 120.5  | 120.5  |
| 37.5° | 2893.2 | 2561.0 | 1798.4 | 1053.0 | 516.6  | 243.6  | 150.1  | 118.1  | 108.2  | 103.3  | 103.3  |
| 40°   | 3117.0 | 2728.3 | 1842.7 | 1021.0 | 369.0  | 167.3  | 105.8  | 103.3  | 98.4   | 91.0   | 88.6   |
| 42.5° | 3326.2 | 2920.2 | 1869.7 | 959.5  | 241.1  | 110.7  | 93.5   | 95.9   | 93.5   | 81.2   | 78.7   |
| 45°   | 3547.6 | 3075.2 | 1884.5 | 836.5  | 159.9  | 91.0   | 83.6   | 88.6   | 91.0   | 81.2   | 78.7   |
| 47.5° | 3769.0 | 3245.0 | 1894.3 | 651.9  | 105.8  | 88.6   | 78.7   | 86.1   | 88.6   | 78.7   | 76.3   |
| 50°   | 4002.7 | 3400.0 | 1879.6 | 418.2  | 93.5   | 83.6   | 76.3   | 78.7   | 83.6   | 78.7   | 76.3   |
| 52.5° | 4206.9 | 3540.2 | 1810.7 | 233.7  | 91.0   | 81.2   | 71.3   | 73.8   | 81.2   | 76.3   | 76.3   |
| 55°   | 4416.0 | 3678.0 | 1682.8 | 137.8  | 88.6   | 76.3   | 71.3   | 73.8   | 76.3   | 71.3   | 73.8   |
| 57.5° | 4605.4 | 3810.8 | 1490.9 | 113.2  | 88.6   | 73.8   | 73.8   | 68.9   | 68.9   | 64.0   | 64.0   |
| 60°   | 4750.6 | 3931.4 | 1262.1 | 105.8  | 83.6   | 76.3   | 68.9   | 64.0   | 59.0   | 54.1   | 54.1   |
| 62.5° | 4866.2 | 4034.7 | 937.3  | 98.4   | 81.2   | 73.8   | 64.0   | 56.6   | 49.2   | 44.3   | 44.3   |
| 65°   | 4930.2 | 4056.8 | 661.8  | 88.6   | 76.3   | 71.3   | 59.0   | 49.2   | 39.4   | 36.9   | 36.9   |
| 67.5° | 4856.4 | 3941.2 | 403.5  | 83.6   | 71.3   | 68.9   | 56.6   | 44.3   | 34.4   | 32.0   | 32.0   |
| 70°   | 4573.5 | 3631.2 | 226.3  | 76.3   | 64.0   | 61.5   | 51.7   | 39.4   | 32.0   | 27.1   | 27.1   |
| 72.5° | 4106.0 | 3176.1 | 113.2  | 64.0   | 54.1   | 54.1   | 46.7   | 34.4   | 29.5   | 24.6   | 24.6   |
| 75°   | 3468.8 | 2605.3 | 81.2   | 46.7   | 44.3   | 44.3   | 39.4   | 32.0   | 27.1   | 22.1   | 22.1   |
| 77.5° | 2541.4 | 1717.2 | 66.4   | 39.4   | 32.0   | 32.0   | 34.4   | 29.5   | 24.6   | 19.7   | 19.7   |
| 80°   | 1316.2 | 851.2  | 56.6   | 29.5   | 27.1   | 24.6   | 24.6   | 24.6   | 19.7   | 17.2   | 17.2   |
| 82.5° | 583.1  | 327.2  | 36.9   | 22.1   | 22.1   | 19.7   | 19.7   | 19.7   | 17.2   | 14.8   | 14.8   |
| 85°   | 113.2  | 61.5   | 19.7   | 17.2   | 14.8   | 14.8   | 14.8   | 12.3   | 12.3   | 12.3   | 12.3   |
| 87.5° | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    |
| 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)