

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: INVUE

Report Number: P149893

Luminaire Tested: **VXS-F04-LED-E1-SL2-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149893  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F04-LED-E1-SL2-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8514.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2  
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: 25 FT

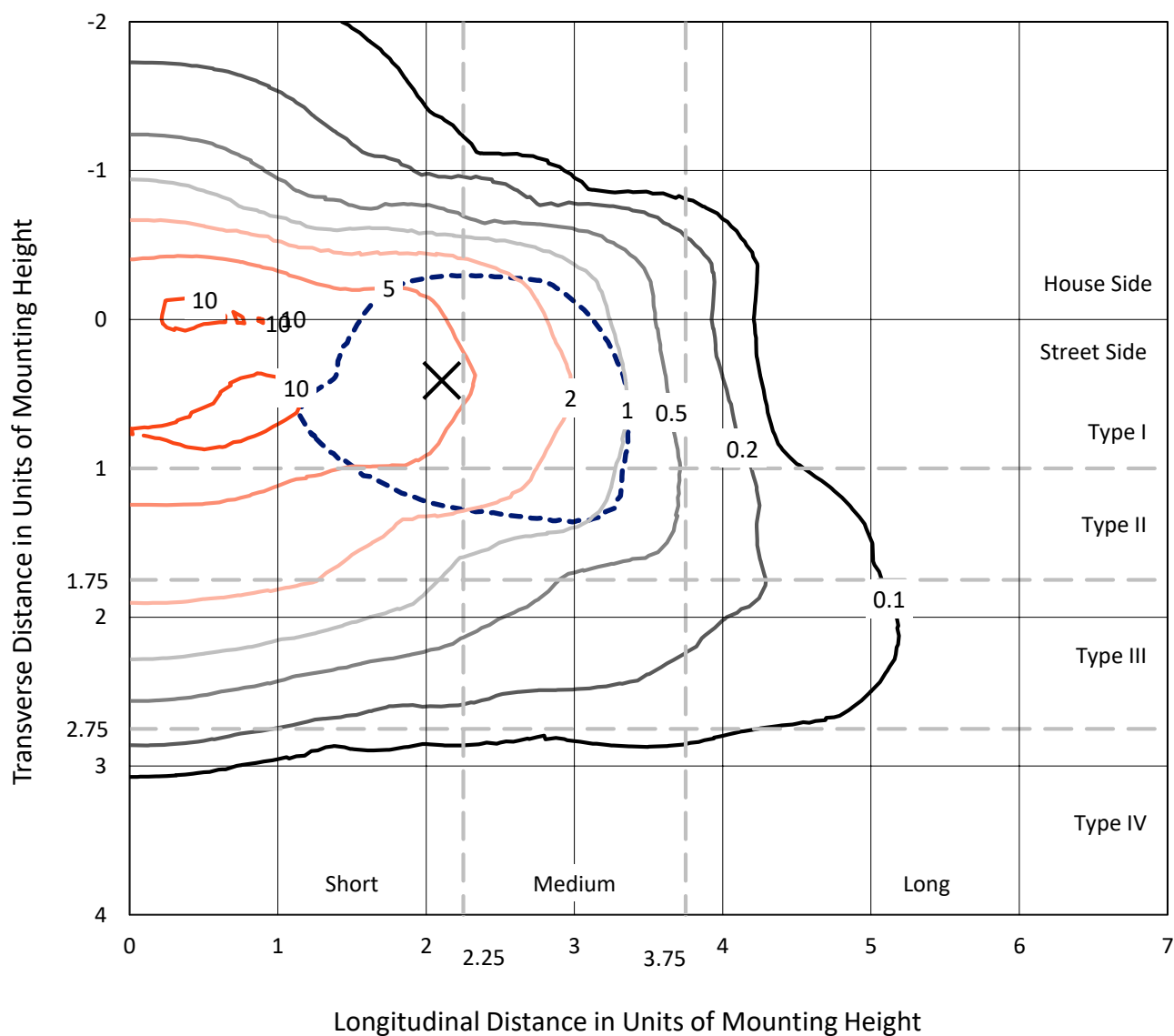


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

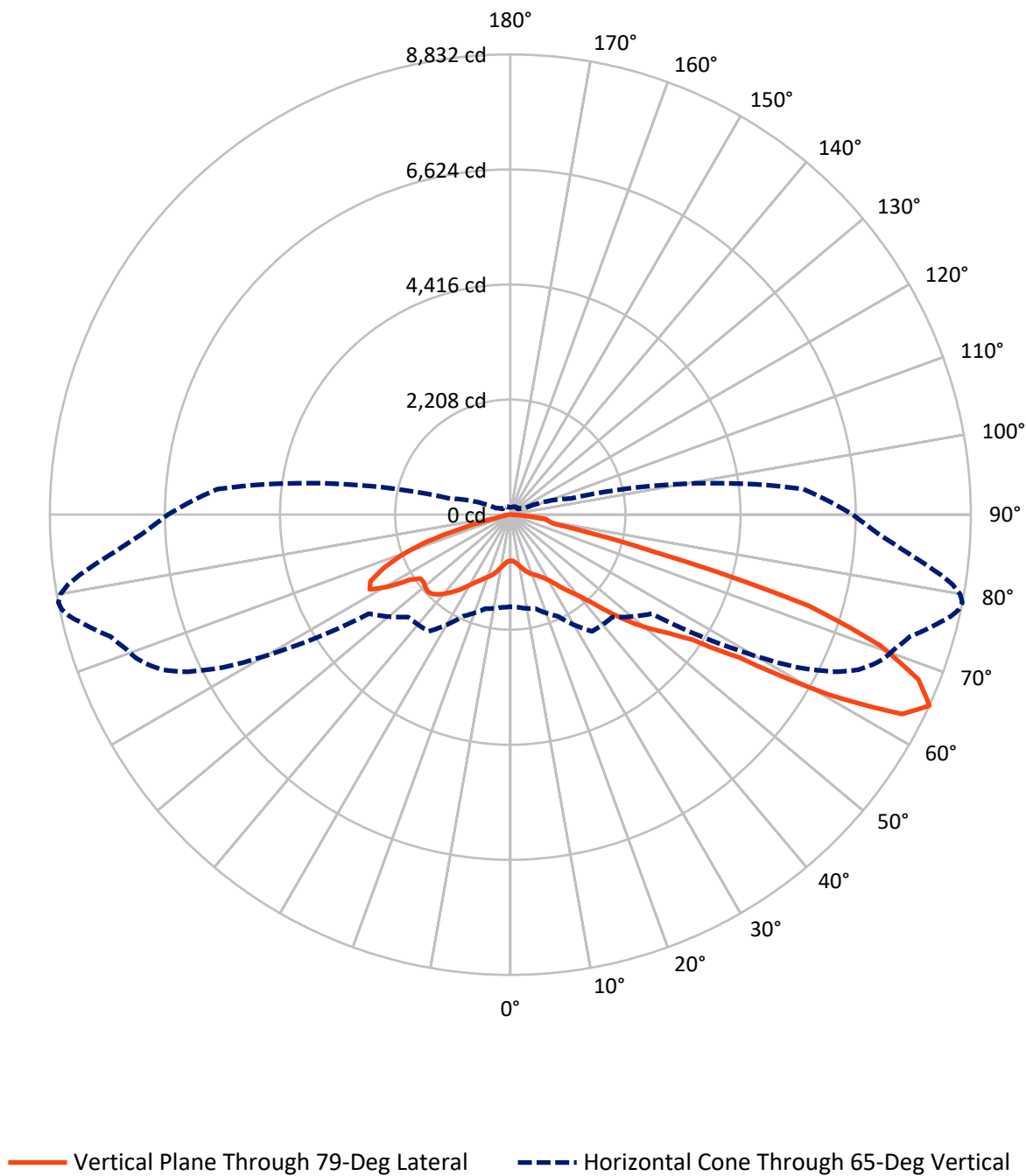


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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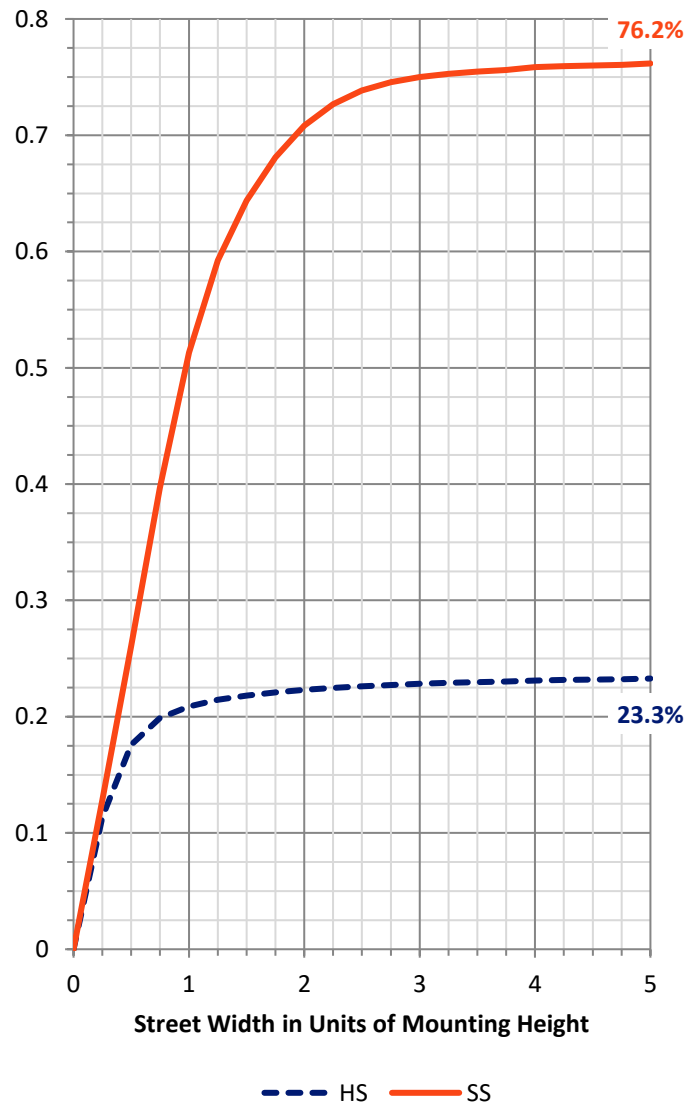
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2012.8   | 0.0    | 2012.8 |
|                    | % Fixture | 23.6     | 0.0    | 23.6   |
| <b>Street Side</b> | Lumens    | 6501.6   | 0.0    | 6501.6 |
|                    | % Fixture | 76.4     | 0.0    | 76.4   |
| <b>Total</b>       | Lumens    | 8514.4   | 0.0    | 8514.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.1   | 1.0       |
| 10°-20°   | 288.1  | 3.4       |
| 20°-30°   | 497.6  | 5.8       |
| 30°-40°   | 823.6  | 9.7       |
| 40°-50°   | 1396.8 | 16.4      |
| 50°-60°   | 1855.9 | 21.8      |
| 60°-70°   | 2397.4 | 28.2      |
| 70°-80°   | 1005.5 | 11.8      |
| 80°-90°   | 161.5  | 1.9       |
| 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°    | 8514.4 | 100.0     |
| 0°-180°   | 8514.4 | 100.0     |

**Coefficient of Utilization**



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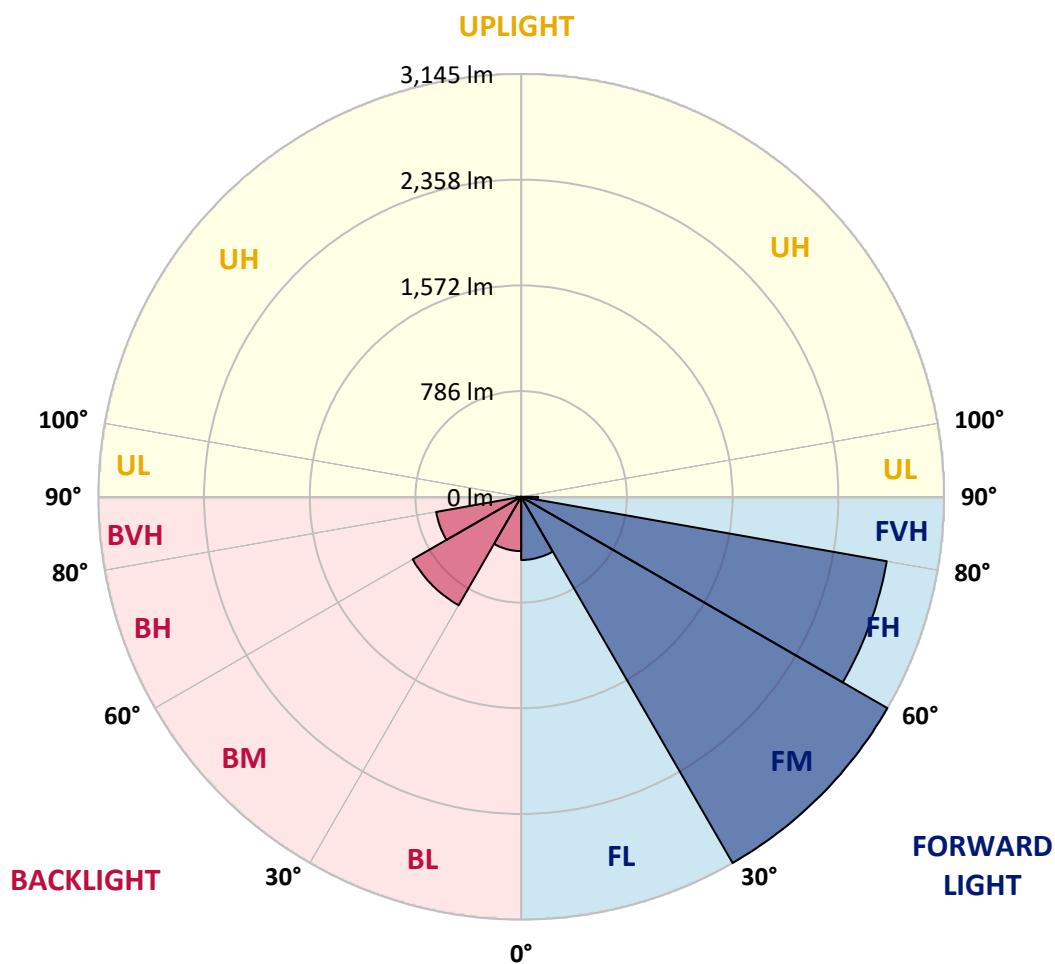
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 469.8  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 3144.6 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 2760.9 | 32.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 126.3  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 403.9  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 931.7  | 10.9      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 641.9  | 7.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 35.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  |
| 2.5°  | 883.4  | 886.2  | 884.4  | 886.2  | 888.1  | 889.0  | 890.9  | 889.9  | 889.9  | 890.9  | 889.0  |
| 5°    | 883.4  | 883.4  | 886.2  | 890.9  | 892.7  | 898.3  | 904.9  | 903.9  | 904.9  | 903.9  | 905.8  |
| 7.5°  | 902.1  | 901.1  | 903.9  | 909.4  | 911.3  | 919.7  | 930.9  | 932.7  | 934.5  | 934.5  | 937.3  |
| 10°   | 934.5  | 933.6  | 936.4  | 939.2  | 942.0  | 948.5  | 964.2  | 970.8  | 971.7  | 972.6  | 976.4  |
| 12.5° | 975.4  | 974.5  | 970.8  | 970.8  | 969.8  | 982.0  | 1003.3 | 1015.3 | 1017.2 | 1020.9 | 1023.7 |
| 15°   | 1004.2 | 1001.5 | 995.9  | 992.1  | 996.8  | 1016.3 | 1047.9 | 1061.9 | 1063.7 | 1066.4 | 1073.9 |
| 17.5° | 1032.1 | 1029.3 | 1017.2 | 1008.0 | 1014.4 | 1046.0 | 1088.8 | 1103.6 | 1107.4 | 1110.2 | 1118.4 |
| 20°   | 1071.1 | 1069.2 | 1051.6 | 1029.3 | 1027.5 | 1068.3 | 1120.3 | 1139.9 | 1142.7 | 1146.3 | 1154.7 |
| 22.5° | 1130.6 | 1122.2 | 1101.8 | 1060.0 | 1039.5 | 1081.3 | 1142.7 | 1169.6 | 1173.3 | 1177.0 | 1188.2 |
| 25°   | 1204.9 | 1201.1 | 1165.9 | 1101.8 | 1059.1 | 1094.3 | 1166.8 | 1200.2 | 1205.8 | 1210.5 | 1225.3 |
| 27.5° | 1282.0 | 1276.4 | 1238.3 | 1154.7 | 1093.4 | 1120.3 | 1204.9 | 1243.0 | 1250.4 | 1257.8 | 1271.8 |
| 30°   | 1350.8 | 1348.9 | 1317.3 | 1226.2 | 1149.1 | 1169.6 | 1266.2 | 1312.6 | 1321.0 | 1330.3 | 1343.3 |
| 32.5° | 1512.3 | 1513.3 | 1480.8 | 1387.9 | 1283.8 | 1258.8 | 1354.4 | 1424.1 | 1427.9 | 1439.0 | 1462.2 |
| 35°   | 1821.8 | 1825.5 | 1813.4 | 1740.0 | 1622.9 | 1519.8 | 1529.1 | 1597.8 | 1601.6 | 1610.9 | 1633.2 |
| 37.5° | 2028.9 | 2036.4 | 2073.5 | 2096.7 | 2037.3 | 1989.8 | 1871.9 | 1845.0 | 1847.8 | 1842.2 | 1837.5 |
| 40°   | 2143.1 | 2154.3 | 2251.8 | 2372.6 | 2437.6 | 2438.5 | 2387.5 | 2268.6 | 2223.0 | 2210.1 | 2154.3 |
| 42.5° | 2208.2 | 2226.7 | 2365.2 | 2571.4 | 2758.1 | 2886.3 | 2917.9 | 2786.0 | 2752.5 | 2693.2 | 2586.3 |
| 45°   | 2250.9 | 2273.3 | 2436.7 | 2719.2 | 2994.1 | 3212.4 | 3376.9 | 3318.3 | 3296.1 | 3259.8 | 3161.3 |
| 47.5° | 2243.5 | 2261.1 | 2431.2 | 2769.3 | 3117.6 | 3428.0 | 3719.7 | 3780.0 | 3753.1 | 3743.8 | 3676.9 |
| 50°   | 2107.9 | 2123.6 | 2296.5 | 2644.8 | 3049.8 | 3509.7 | 3937.0 | 4108.0 | 4108.0 | 4125.6 | 4105.2 |
| 52.5° | 1962.9 | 1976.0 | 2133.0 | 2446.0 | 2830.6 | 3429.8 | 4057.8 | 4341.1 | 4378.2 | 4408.9 | 4457.2 |
| 55°   | 1908.1 | 1923.9 | 2042.8 | 2310.4 | 2643.8 | 3201.2 | 4098.7 | 4515.8 | 4584.6 | 4636.6 | 4746.1 |
| 57.5° | 1934.1 | 1949.9 | 2034.5 | 2237.0 | 2534.3 | 2968.1 | 4100.5 | 4750.8 | 4883.6 | 4990.5 | 5212.5 |
| 60°   | 2046.5 | 2061.5 | 2132.0 | 2304.8 | 2505.5 | 2833.4 | 4021.6 | 5125.2 | 5337.0 | 5537.6 | 5907.4 |
| 62.5° | 1994.5 | 2013.1 | 2116.3 | 2417.2 | 2720.1 | 2731.2 | 3736.4 | 5415.0 | 5756.0 | 6052.3 | 6640.3 |
| 65°   | 1766.9 | 1786.4 | 1867.3 | 2148.7 | 2733.1 | 2775.8 | 3313.7 | 5420.6 | 5844.2 | 6244.6 | 6879.1 |
| 67.5° | 1341.5 | 1348.9 | 1413.0 | 1638.8 | 2185.9 | 2825.1 | 2878.9 | 4778.7 | 5181.9 | 5628.7 | 6283.6 |
| 70°   | 685.6  | 698.5  | 717.2  | 904.9  | 1407.4 | 2334.5 | 2473.9 | 3521.8 | 4035.5 | 4497.2 | 5284.0 |
| 72.5° | 237.8  | 242.5  | 261.0  | 345.6  | 685.6  | 1531.9 | 2165.5 | 2413.5 | 2723.7 | 3155.8 | 4067.0 |
| 75°   | 143.1  | 143.1  | 149.5  | 174.6  | 313.1  | 798.0  | 1926.7 | 1971.3 | 2013.1 | 2158.0 | 2754.4 |
| 77.5° | 113.4  | 115.2  | 115.2  | 119.8  | 173.7  | 409.6  | 1463.1 | 1832.8 | 1838.4 | 1852.4 | 1952.7 |
| 80°   | 80.8   | 84.6   | 92.0   | 95.6   | 112.4  | 224.8  | 821.2  | 1609.0 | 1718.7 | 1771.6 | 1845.0 |
| 82.5° | 60.4   | 64.1   | 78.0   | 82.7   | 87.4   | 125.4  | 368.8  | 1110.2 | 1309.8 | 1415.8 | 1674.0 |
| 85°   | 26.9   | 31.6   | 53.0   | 58.5   | 61.3   | 66.8   | 172.7  | 315.9  | 363.2  | 407.8  | 537.9  |
| 87.5° | 4.7    | 4.7    | 8.4    | 12.1   | 17.6   | 16.7   | 38.1   | 53.9   | 54.8   | 64.1   | 71.5   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  |
| 2.5°  | 889.0  | 889.0  | 889.0  | 888.1  | 889.0  | 889.0  | 889.0  | 889.0  | 889.9  | 889.9  | 889.9  |
| 5°    | 908.5  | 906.7  | 907.6  | 907.6  | 907.6  | 906.7  | 908.5  | 907.6  | 908.5  | 911.3  | 910.4  |
| 7.5°  | 937.3  | 939.2  | 940.1  | 941.0  | 941.0  | 941.0  | 942.0  | 943.8  | 943.8  | 946.6  | 945.7  |
| 10°   | 980.1  | 979.2  | 980.1  | 982.9  | 985.7  | 986.5  | 989.3  | 988.4  | 990.3  | 994.0  | 997.7  |
| 12.5° | 1025.6 | 1027.5 | 1030.3 | 1033.1 | 1037.7 | 1038.5 | 1041.3 | 1042.3 | 1047.9 | 1047.9 | 1051.6 |
| 15°   | 1076.7 | 1077.6 | 1083.2 | 1084.1 | 1089.7 | 1091.5 | 1096.2 | 1098.0 | 1104.6 | 1105.5 | 1109.2 |
| 17.5° | 1123.1 | 1125.0 | 1127.8 | 1130.6 | 1137.1 | 1139.9 | 1143.6 | 1147.3 | 1152.8 | 1154.7 | 1161.2 |
| 20°   | 1160.3 | 1164.0 | 1165.0 | 1170.5 | 1176.1 | 1179.8 | 1183.5 | 1187.3 | 1192.8 | 1195.6 | 1202.1 |
| 22.5° | 1193.8 | 1197.4 | 1200.2 | 1204.9 | 1208.6 | 1214.2 | 1216.1 | 1222.5 | 1228.1 | 1232.7 | 1238.3 |
| 25°   | 1229.9 | 1235.5 | 1238.3 | 1246.7 | 1249.4 | 1255.0 | 1259.7 | 1266.2 | 1273.7 | 1279.2 | 1286.6 |
| 27.5° | 1281.0 | 1289.4 | 1293.2 | 1302.4 | 1308.9 | 1311.7 | 1319.2 | 1328.4 | 1334.9 | 1341.5 | 1348.9 |
| 30°   | 1351.7 | 1367.5 | 1370.3 | 1376.8 | 1388.8 | 1390.7 | 1400.0 | 1407.4 | 1417.6 | 1424.1 | 1430.7 |
| 32.5° | 1461.2 | 1480.8 | 1482.7 | 1490.1 | 1500.3 | 1504.0 | 1511.5 | 1519.8 | 1535.6 | 1538.3 | 1548.6 |
| 35°   | 1629.4 | 1637.8 | 1645.2 | 1648.0 | 1656.4 | 1661.0 | 1666.6 | 1675.9 | 1691.7 | 1689.8 | 1700.9 |
| 37.5° | 1831.0 | 1833.8 | 1834.7 | 1825.5 | 1827.3 | 1819.0 | 1829.1 | 1831.0 | 1836.6 | 1841.2 | 1852.4 |
| 40°   | 2119.0 | 2090.2 | 2086.5 | 2064.1 | 2041.9 | 2029.8 | 2025.2 | 2006.6 | 2011.2 | 2013.1 | 2022.4 |
| 42.5° | 2539.8 | 2484.1 | 2437.6 | 2406.0 | 2351.3 | 2324.4 | 2288.1 | 2259.3 | 2237.0 | 2245.4 | 2249.0 |
| 45°   | 3073.1 | 2993.2 | 2918.9 | 2822.3 | 2750.7 | 2699.6 | 2635.5 | 2577.9 | 2551.9 | 2539.8 | 2554.7 |
| 47.5° | 3605.4 | 3534.8 | 3447.5 | 3348.1 | 3234.7 | 3150.2 | 3043.3 | 2949.5 | 2884.5 | 2860.3 | 2873.4 |
| 50°   | 4065.2 | 4000.2 | 3934.2 | 3875.8 | 3743.8 | 3651.8 | 3506.0 | 3384.2 | 3282.1 | 3230.1 | 3216.2 |
| 52.5° | 4447.0 | 4412.6 | 4377.3 | 4328.1 | 4222.2 | 4130.3 | 4014.1 | 3894.3 | 3758.7 | 3652.7 | 3616.5 |
| 55°   | 4788.0 | 4808.4 | 4790.8 | 4791.7 | 4749.8 | 4691.4 | 4592.8 | 4503.7 | 4408.9 | 4289.1 | 4239.0 |
| 57.5° | 5285.0 | 5405.7 | 5429.8 | 5490.3 | 5520.0 | 5551.6 | 5579.5 | 5526.5 | 5502.4 | 5413.2 | 5414.1 |
| 60°   | 6068.1 | 6244.6 | 6397.9 | 6537.2 | 6651.5 | 6763.0 | 6880.0 | 6932.0 | 6989.6 | 7016.6 | 7108.6 |
| 62.5° | 6901.3 | 7069.5 | 7298.0 | 7484.8 | 7589.7 | 7734.7 | 7862.0 | 7944.7 | 8045.9 | 8153.7 | 8294.0 |
| 65°   | 7107.7 | 7310.2 | 7454.1 | 7578.7 | 7682.7 | 7759.8 | 7829.4 | 7927.9 | 8012.4 | 8183.4 | 8348.7 |
| 67.5° | 6579.1 | 6740.7 | 6872.6 | 6995.2 | 7076.1 | 7141.0 | 7203.3 | 7268.4 | 7413.3 | 7568.4 | 7734.7 |
| 70°   | 5647.3 | 5842.4 | 6060.6 | 6219.5 | 6259.5 | 6315.2 | 6374.7 | 6459.2 | 6531.7 | 6694.2 | 6820.6 |
| 72.5° | 4537.1 | 4817.7 | 5002.6 | 5222.7 | 5270.2 | 5354.6 | 5388.1 | 5454.1 | 5467.0 | 5555.3 | 5588.7 |
| 75°   | 3162.3 | 3483.6 | 3669.4 | 3831.1 | 3862.7 | 3816.3 | 3834.8 | 3601.7 | 3542.2 | 3493.9 | 3454.9 |
| 77.5° | 2087.5 | 2173.8 | 2203.5 | 2177.5 | 2053.1 | 1955.5 | 1851.5 | 1749.2 | 1760.4 | 1677.7 | 1532.8 |
| 80°   | 1856.1 | 1875.6 | 1848.7 | 1822.7 | 1751.1 | 1648.9 | 1555.1 | 1459.4 | 1412.0 | 1361.9 | 1287.6 |
| 82.5° | 1805.9 | 1881.1 | 1889.5 | 1857.9 | 1801.2 | 1689.8 | 1576.5 | 1434.3 | 1313.6 | 1202.1 | 1088.8 |
| 85°   | 603.8  | 734.8  | 793.4  | 848.2  | 864.9  | 884.4  | 817.5  | 726.4  | 616.9  | 543.4  | 425.5  |
| 87.5° | 77.1   | 95.6   | 110.6  | 94.7   | 110.6  | 130.1  | 93.8   | 105.0  | 105.9  | 65.9   | 49.2   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  |
| 2.5°  | 890.9  | 889.9  | 889.9  | 889.9  | 889.0  | 889.9  | 889.9  | 889.9  | 889.9  | 889.9  | 889.0  |
| 5°    | 911.3  | 911.3  | 914.1  | 915.0  | 913.2  | 912.2  | 913.2  | 914.1  | 914.1  | 913.2  | 914.1  |
| 7.5°  | 949.4  | 950.4  | 952.2  | 955.0  | 953.2  | 954.1  | 955.0  | 954.1  | 956.9  | 957.8  | 956.9  |
| 10°   | 997.7  | 999.6  | 1004.2 | 1005.2 | 1004.2 | 1008.0 | 1008.9 | 1007.0 | 1008.9 | 1008.9 | 1012.5 |
| 12.5° | 1053.5 | 1055.3 | 1060.9 | 1062.8 | 1064.7 | 1065.5 | 1068.3 | 1069.2 | 1072.0 | 1073.9 | 1076.7 |
| 15°   | 1113.9 | 1115.8 | 1119.4 | 1125.9 | 1127.8 | 1129.6 | 1131.5 | 1137.1 | 1138.0 | 1141.8 | 1144.5 |
| 17.5° | 1165.0 | 1167.8 | 1173.3 | 1177.9 | 1180.7 | 1185.4 | 1187.3 | 1193.8 | 1195.6 | 1201.1 | 1205.8 |
| 20°   | 1205.8 | 1210.5 | 1215.1 | 1220.7 | 1225.3 | 1230.9 | 1232.7 | 1239.3 | 1243.0 | 1245.8 | 1251.3 |
| 22.5° | 1243.0 | 1248.6 | 1255.0 | 1261.6 | 1265.3 | 1272.7 | 1275.4 | 1278.2 | 1286.6 | 1290.4 | 1296.0 |
| 25°   | 1291.3 | 1296.9 | 1304.2 | 1312.6 | 1316.4 | 1325.7 | 1328.4 | 1333.1 | 1342.4 | 1346.1 | 1354.4 |
| 27.5° | 1357.2 | 1364.7 | 1370.3 | 1378.7 | 1383.2 | 1389.7 | 1396.3 | 1401.9 | 1410.2 | 1415.8 | 1425.1 |
| 30°   | 1439.9 | 1445.5 | 1454.8 | 1461.2 | 1468.7 | 1478.0 | 1485.4 | 1491.0 | 1495.6 | 1504.0 | 1514.2 |
| 32.5° | 1561.7 | 1562.6 | 1565.3 | 1581.1 | 1588.6 | 1596.0 | 1606.2 | 1610.9 | 1618.2 | 1626.6 | 1637.8 |
| 35°   | 1713.1 | 1721.5 | 1727.9 | 1735.3 | 1743.7 | 1752.0 | 1755.8 | 1769.7 | 1776.2 | 1787.4 | 1798.5 |
| 37.5° | 1863.5 | 1864.5 | 1879.4 | 1883.9 | 1891.4 | 1899.8 | 1912.7 | 1926.7 | 1943.4 | 1954.6 | 1972.2 |
| 40°   | 2025.2 | 2032.6 | 2051.2 | 2060.5 | 2069.7 | 2090.2 | 2100.4 | 2122.7 | 2150.6 | 2166.4 | 2196.1 |
| 42.5° | 2259.3 | 2270.5 | 2303.8 | 2318.8 | 2341.0 | 2374.5 | 2395.9 | 2426.5 | 2437.6 | 2475.8 | 2489.6 |
| 45°   | 2565.8 | 2600.2 | 2648.5 | 2680.1 | 2720.1 | 2756.3 | 2774.8 | 2788.8 | 2805.5 | 2835.2 | 2831.5 |
| 47.5° | 2897.5 | 2942.1 | 2996.0 | 3061.0 | 3087.0 | 3129.7 | 3153.9 | 3180.8 | 3166.0 | 3158.5 | 3151.1 |
| 50°   | 3237.5 | 3289.5 | 3361.0 | 3419.6 | 3459.5 | 3485.5 | 3506.0 | 3502.3 | 3470.7 | 3454.0 | 3407.5 |
| 52.5° | 3615.5 | 3646.2 | 3714.1 | 3764.2 | 3788.4 | 3794.0 | 3789.3 | 3761.5 | 3731.7 | 3678.8 | 3623.9 |
| 55°   | 4195.2 | 4181.3 | 4208.3 | 4231.5 | 4224.0 | 4250.1 | 4183.2 | 4157.2 | 4083.8 | 4015.0 | 3941.7 |
| 57.5° | 5373.3 | 5391.8 | 5241.3 | 5173.5 | 5161.5 | 5185.6 | 5067.6 | 5052.7 | 4875.3 | 4853.0 | 4729.4 |
| 60°   | 7095.5 | 7186.6 | 7068.6 | 7002.7 | 6824.2 | 6765.8 | 6633.9 | 6579.1 | 6409.0 | 6271.5 | 6097.8 |
| 62.5° | 8390.6 | 8473.3 | 8522.5 | 8428.6 | 8324.6 | 8171.3 | 7971.6 | 7750.5 | 7570.3 | 7359.4 | 7175.4 |
| 65°   | 8507.6 | 8674.8 | 8788.2 | 8831.8 | 8758.4 | 8590.3 | 8344.1 | 8065.4 | 7789.5 | 7524.8 | 7292.5 |
| 67.5° | 7960.4 | 8110.1 | 8285.6 | 8442.6 | 8451.9 | 8342.3 | 8132.3 | 7848.9 | 7530.4 | 7203.3 | 6931.1 |
| 70°   | 7020.3 | 7208.0 | 7361.2 | 7526.6 | 7641.8 | 7578.7 | 7473.7 | 7213.6 | 6882.8 | 6628.3 | 6315.2 |
| 72.5° | 5709.5 | 5788.5 | 5825.6 | 5988.2 | 5990.1 | 5874.9 | 5800.5 | 5656.6 | 5389.9 | 5209.7 | 4971.0 |
| 75°   | 3334.1 | 3160.4 | 2975.5 | 2814.8 | 2683.8 | 2629.0 | 2385.6 | 2344.8 | 2181.2 | 2080.0 | 1931.4 |
| 77.5° | 1374.9 | 1219.8 | 1020.0 | 853.8  | 689.3  | 615.0  | 507.3  | 459.9  | 398.5  | 371.6  | 354.0  |
| 80°   | 1178.9 | 1032.1 | 881.6  | 737.6  | 609.4  | 481.2  | 374.4  | 290.8  | 228.5  | 194.2  | 180.2  |
| 82.5° | 962.4  | 874.2  | 769.2  | 691.2  | 590.9  | 495.1  | 418.0  | 324.2  | 242.5  | 178.3  | 136.6  |
| 85°   | 347.5  | 285.2  | 229.4  | 210.9  | 168.2  | 138.4  | 116.2  | 99.4   | 81.8   | 65.1   | 57.6   |
| 87.5° | 39.1   | 37.2   | 21.3   | 20.4   | 23.2   | 16.7   | 19.5   | 17.6   | 14.8   | 13.1   | 13.9   |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2  | 886.2 | 886.2 |
| 2.5°  | 889.0  | 889.0  | 889.9  | 889.9  | 890.9  | 891.8  | 893.7  | 892.7  | 892.7  | 893.7 | 893.7 |
| 5°    | 914.1  | 916.9  | 916.0  | 916.0  | 916.0  | 916.9  | 917.8  | 914.1  | 910.4  | 906.7 | 904.9 |
| 7.5°  | 957.8  | 959.6  | 961.5  | 959.6  | 961.5  | 960.5  | 958.8  | 948.5  | 936.4  | 921.6 | 911.3 |
| 10°   | 1014.4 | 1014.4 | 1016.3 | 1015.3 | 1019.1 | 1016.3 | 1010.8 | 987.5  | 961.5  | 929.9 | 906.7 |
| 12.5° | 1075.8 | 1082.3 | 1079.5 | 1080.4 | 1087.9 | 1080.4 | 1067.4 | 1033.1 | 986.5  | 935.4 | 894.6 |
| 15°   | 1148.2 | 1151.0 | 1152.8 | 1150.1 | 1154.7 | 1148.2 | 1125.0 | 1070.2 | 1002.4 | 930.9 | 870.5 |
| 17.5° | 1207.7 | 1208.6 | 1209.5 | 1211.4 | 1217.9 | 1210.5 | 1170.5 | 1096.2 | 1006.1 | 909.4 | 829.5 |
| 20°   | 1254.1 | 1258.8 | 1262.5 | 1262.5 | 1271.8 | 1260.6 | 1207.7 | 1109.2 | 994.0  | 874.2 | 777.5 |
| 22.5° | 1302.4 | 1306.1 | 1310.8 | 1311.7 | 1323.8 | 1312.6 | 1238.3 | 1106.4 | 962.4  | 824.0 | 717.2 |
| 25°   | 1361.9 | 1365.6 | 1369.3 | 1374.0 | 1390.7 | 1374.9 | 1269.0 | 1095.2 | 918.8  | 764.6 | 652.1 |
| 27.5° | 1430.7 | 1439.0 | 1441.8 | 1449.2 | 1468.7 | 1444.6 | 1295.0 | 1078.5 | 870.5  | 695.9 | 583.4 |
| 30°   | 1522.6 | 1532.8 | 1536.6 | 1546.7 | 1573.7 | 1520.7 | 1309.8 | 1049.7 | 809.1  | 626.1 | 510.1 |
| 32.5° | 1646.1 | 1660.1 | 1671.2 | 1682.4 | 1713.1 | 1596.9 | 1311.7 | 1008.0 | 737.6  | 548.1 | 439.4 |
| 35°   | 1807.8 | 1829.1 | 1837.5 | 1845.0 | 1873.8 | 1679.6 | 1303.3 | 945.7  | 650.3  | 468.2 | 383.6 |
| 37.5° | 1988.9 | 2010.4 | 2015.9 | 2019.6 | 2025.2 | 1750.2 | 1282.9 | 851.0  | 551.8  | 398.5 | 339.1 |
| 40°   | 2211.9 | 2230.5 | 2237.9 | 2232.3 | 2202.6 | 1805.0 | 1237.4 | 740.4  | 456.2  | 351.2 | 311.2 |
| 42.5° | 2484.1 | 2511.9 | 2514.7 | 2489.6 | 2391.2 | 1835.6 | 1146.3 | 610.4  | 380.9  | 316.8 | 289.8 |
| 45°   | 2821.3 | 2819.5 | 2803.6 | 2786.0 | 2596.5 | 1823.6 | 1019.1 | 497.0  | 333.5  | 289.8 | 270.4 |
| 47.5° | 3124.1 | 3092.5 | 3068.4 | 3016.4 | 2777.6 | 1753.0 | 854.6  | 411.5  | 304.7  | 269.4 | 253.6 |
| 50°   | 3372.2 | 3314.6 | 3263.5 | 3206.8 | 2912.3 | 1627.6 | 691.2  | 349.3  | 277.7  | 251.7 | 237.8 |
| 52.5° | 3568.2 | 3498.5 | 3439.1 | 3383.3 | 3042.4 | 1488.2 | 566.6  | 303.7  | 251.7  | 234.1 | 220.2 |
| 55°   | 3874.8 | 3805.1 | 3710.4 | 3649.0 | 3241.2 | 1360.0 | 485.9  | 267.6  | 226.6  | 215.5 | 201.6 |
| 57.5° | 4650.5 | 4589.1 | 4475.9 | 4317.0 | 3752.1 | 1311.7 | 440.3  | 239.7  | 206.2  | 199.7 | 188.6 |
| 60°   | 6005.0 | 5905.5 | 5757.8 | 5596.2 | 4790.8 | 1344.2 | 404.1  | 220.2  | 192.3  | 186.7 | 178.3 |
| 62.5° | 7026.8 | 6852.1 | 6685.0 | 6535.3 | 5621.2 | 1343.3 | 356.7  | 205.3  | 182.1  | 179.3 | 170.9 |
| 65°   | 7068.6 | 6891.2 | 6723.0 | 6566.0 | 5639.8 | 1195.6 | 301.0  | 192.3  | 180.2  | 179.3 | 165.4 |
| 67.5° | 6693.3 | 6501.0 | 6338.4 | 6140.5 | 5220.8 | 934.5  | 241.6  | 183.9  | 187.7  | 185.8 | 163.5 |
| 70°   | 6080.2 | 5829.3 | 5695.5 | 5500.5 | 4594.7 | 654.0  | 198.8  | 186.7  | 203.4  | 197.8 | 166.3 |
| 72.5° | 4772.1 | 4582.7 | 4379.2 | 4243.6 | 3597.0 | 413.4  | 167.3  | 188.6  | 209.9  | 200.6 | 173.7 |
| 75°   | 1776.2 | 1827.3 | 1743.7 | 1714.0 | 1827.3 | 242.5  | 148.6  | 175.5  | 187.7  | 173.7 | 157.9 |
| 77.5° | 358.5  | 342.8  | 325.2  | 321.5  | 415.2  | 149.5  | 136.6  | 152.3  | 144.0  | 127.3 | 128.2 |
| 80°   | 171.8  | 167.3  | 161.7  | 160.7  | 154.2  | 124.5  | 126.3  | 130.1  | 108.7  | 98.4  | 105.0 |
| 82.5° | 114.3  | 107.8  | 105.9  | 102.2  | 104.0  | 111.5  | 119.8  | 111.5  | 83.6   | 78.0  | 94.7  |
| 85°   | 53.0   | 51.1   | 50.2   | 50.2   | 55.8   | 100.3  | 99.4   | 81.8   | 57.6   | 55.8  | 94.7  |
| 87.5° | 13.1   | 13.1   | 13.9   | 13.1   | 14.8   | 29.7   | 26.0   | 25.1   | 21.3   | 24.1  | 44.6  |
| 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):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 886.2 | 886.2 | 886.2 |
| 2.5°  | 892.7 | 893.7 | 892.7 |
| 5°    | 901.1 | 901.1 | 901.1 |
| 7.5°  | 901.1 | 898.3 | 897.4 |
| 10°   | 888.1 | 879.8 | 879.8 |
| 12.5° | 865.8 | 851.9 | 850.1 |
| 15°   | 824.0 | 805.4 | 802.6 |
| 17.5° | 771.1 | 746.0 | 741.3 |
| 20°   | 711.6 | 680.0 | 674.4 |
| 22.5° | 646.5 | 610.4 | 607.6 |
| 25°   | 582.5 | 545.3 | 537.9 |
| 27.5° | 511.0 | 474.7 | 471.0 |
| 30°   | 439.4 | 407.8 | 406.0 |
| 32.5° | 379.1 | 359.5 | 355.8 |
| 35°   | 336.3 | 325.2 | 320.5 |
| 37.5° | 308.4 | 300.1 | 299.2 |
| 40°   | 287.0 | 279.6 | 278.7 |
| 42.5° | 269.4 | 262.9 | 262.0 |
| 45°   | 251.7 | 246.2 | 244.4 |
| 47.5° | 234.1 | 228.5 | 227.6 |
| 50°   | 218.3 | 210.9 | 209.9 |
| 52.5° | 203.4 | 196.1 | 194.2 |
| 55°   | 189.5 | 182.1 | 182.1 |
| 57.5° | 177.4 | 170.1 | 169.1 |
| 60°   | 166.3 | 158.9 | 157.9 |
| 62.5° | 157.9 | 148.6 | 147.7 |
| 65°   | 151.4 | 142.2 | 140.3 |
| 67.5° | 147.7 | 136.6 | 133.8 |
| 70°   | 154.2 | 133.8 | 129.1 |
| 72.5° | 155.1 | 131.0 | 124.5 |
| 75°   | 149.5 | 123.5 | 118.9 |
| 77.5° | 131.0 | 110.6 | 105.9 |
| 80°   | 113.4 | 85.5  | 79.0  |
| 82.5° | 107.8 | 69.6  | 60.4  |
| 85°   | 83.6  | 45.5  | 42.7  |
| 87.5° | 47.4  | 25.1  | 20.4  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)