

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1031077

Luminaire Tested: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1031077  
REPORT IS A COMBINATION OF REPORTS P993993 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K  
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

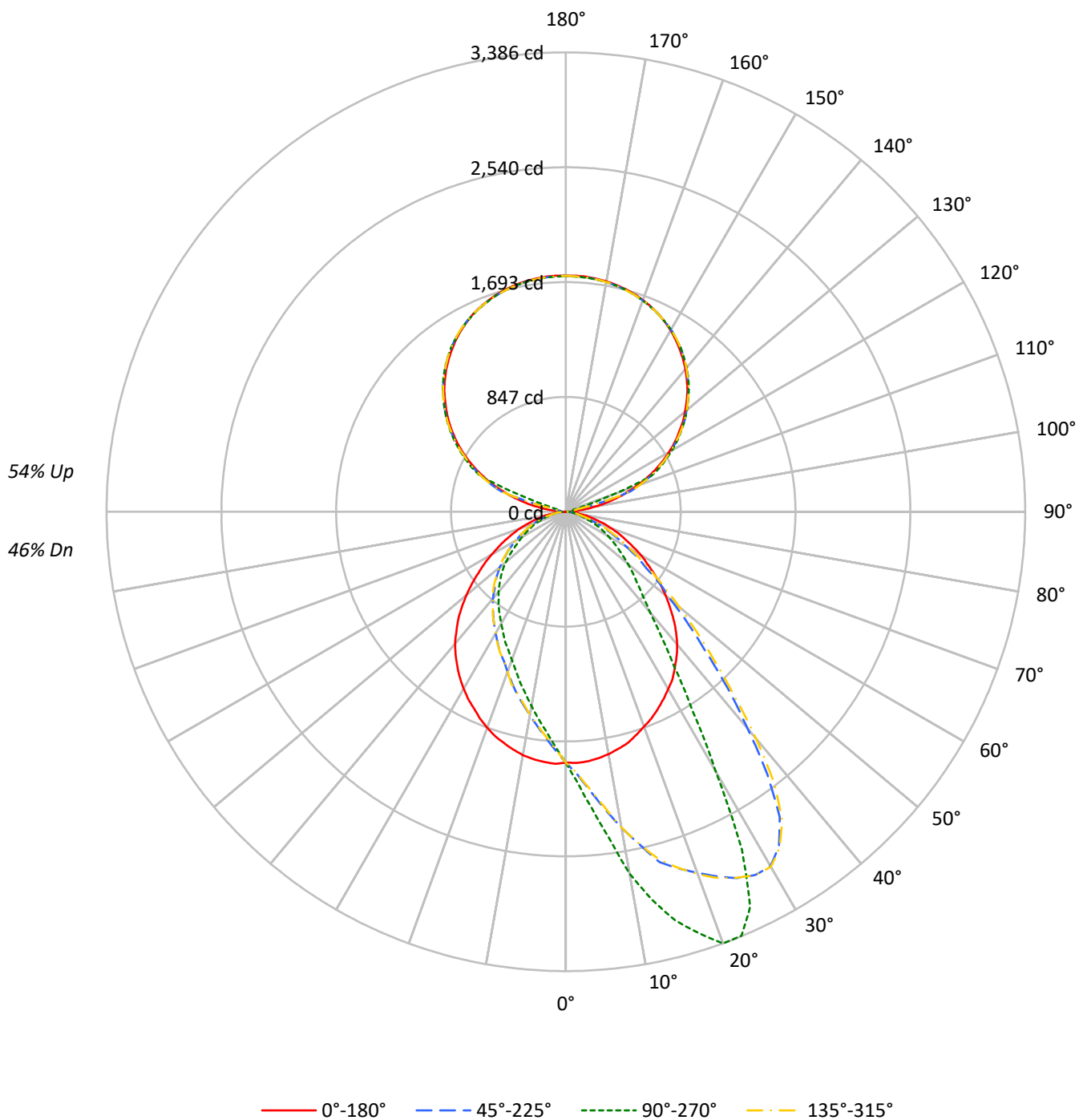
Lumens per Lamp: N/A  
Luminaire Lumens: 9907.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 103.4  
Input Voltage (V):  
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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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 67 | 67 | 67 | 53 | 53 | 53 |    |    | 46 |
| 1   | 98  | 93  | 90  | 86  | 89 | 86 | 83 | 80 | 72 | 70 | 68 | 59 | 58 | 56 | 48 | 47 | 46 |    |    | 40 |
| 2   | 89  | 82  | 76  | 72  | 82 | 76 | 71 | 67 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 39 |    |    | 35 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 57 | 52 | 49 | 47 | 44 | 41 | 38 | 36 | 34 |    |    | 30 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 42 | 39 | 36 | 34 | 32 | 30 |    |    | 26 |
| 5   | 69  | 58  | 50  | 44  | 63 | 54 | 47 | 42 | 46 | 40 | 36 | 38 | 34 | 31 | 31 | 29 | 26 |    |    | 23 |
| 6   | 64  | 52  | 44  | 39  | 58 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 23 |    |    | 20 |
| 7   | 59  | 47  | 39  | 34  | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 26 | 23 | 21 |    |    | 18 |
| 8   | 55  | 43  | 35  | 30  | 50 | 40 | 33 | 29 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 |    |    | 17 |
| 9   | 51  | 39  | 32  | 27  | 47 | 37 | 30 | 26 | 32 | 26 | 23 | 27 | 23 | 20 | 22 | 19 | 17 |    |    | 15 |
| 10  | 48  | 36  | 29  | 24  | 44 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 16 |    |    | 14 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 19894 | 19894 | 19894 | 19894 |
| 5°  | 19909 | 22912 | 19960 | 16998 |
| 10° | 19732 | 27657 | 19819 | 14847 |
| 15° | 19530 | 31390 | 19530 | 13091 |
| 20° | 19129 | 33859 | 19237 | 11613 |
| 25° | 18837 | 32168 | 18799 | 10596 |
| 30° | 18495 | 22288 | 18457 | 9602  |
| 35° | 18085 | 14310 | 18002 | 8853  |
| 40° | 17573 | 10105 | 17487 | 8107  |
| 45° | 16684 | 8086  | 16662 | 7381  |
| 50° | 15593 | 6764  | 15541 | 6532  |
| 55° | 14363 | 5575  | 14249 | 5537  |
| 60° | 13159 | 4609  | 13026 | 4709  |
| 65° | 11744 | 3688  | 11818 | 3991  |
| 70° | 10437 | 2562  | 10716 | 3227  |
| 75° | 8848  | 1900  | 9209  | 2481  |
| 80° | 7047  | 1261  | 7644  | 1860  |
| 85° | 5014  | 596   | 5475  | 1157  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 26558 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 181.5  | 1.8       |
| 10°-20°   | 568.1  | 5.7       |
| 20°-30°   | 894.8  | 9.0       |
| 30°-40°   | 930.5  | 9.4       |
| 40°-50°   | 796.0  | 8.0       |
| 50°-60°   | 606.9  | 6.1       |
| 60°-70°   | 388.8  | 3.9       |
| 70°-80°   | 186.3  | 1.9       |
| 80°-90°   | 52.5   | 0.5       |
| 90°-100°  | 61.3   | 0.6       |
| 100°-110° | 296.5  | 3.0       |
| 110°-120° | 726.6  | 7.3       |
| 120°-130° | 922.4  | 9.3       |
| 130°-140° | 985.3  | 9.9       |
| 140°-150° | 921.4  | 9.3       |
| 150°-160° | 743.2  | 7.5       |
| 160°-170° | 479.6  | 4.8       |
| 170°-180° | 165.3  | 1.7       |
| 0°-30°    | 1644.5 | 16.6      |
| 0°-40°    | 2574.9 | 26.0      |
| 0°-60°    | 3977.9 | 40.2      |
| 0°-90°    | 4605.5 | 46.5      |
| 90°-120°  | 1084.4 | 10.9      |
| 90°-150°  | 3913.4 | 39.5      |
| 90°-180°  | 5302.0 | 53.5      |
| 0°-180°   | 9907.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1848 | 1848 | 1848 | 1848 | 1848 |      |
| 5°   | 1847 | 2195 | 1851 | 1628 | 1847 | 175  |
| 15°  | 1764 | 3119 | 1764 | 1301 | 1764 | 496  |
| 25°  | 1604 | 3214 | 1601 | 1059 | 1604 | 739  |
| 35°  | 1400 | 1394 | 1394 | 862  | 1400 | 876  |
| 45°  | 1123 | 744  | 1122 | 679  | 1123 | 865  |
| 55°  | 793  | 467  | 786  | 464  | 793  | 710  |
| 65°  | 486  | 269  | 489  | 291  | 486  | 485  |
| 75°  | 233  | 114  | 242  | 149  | 233  | 251  |
| 85°  | 52   | 27   | 57   | 52   | 52   | 58   |
| 90°  | 1    | 39   | 1    | 39   | 1    | 7    |
| 95°  | 79   | 49   | 79   | 49   | 79   | 94   |
| 105° | 385  | 57   | 385  | 57   | 385  | 408  |
| 115° | 722  | 760  | 722  | 760  | 722  | 713  |
| 125° | 1018 | 1039 | 1018 | 1039 | 1018 | 910  |
| 135° | 1267 | 1280 | 1267 | 1280 | 1267 | 976  |
| 145° | 1462 | 1477 | 1462 | 1477 | 1462 | 916  |
| 155° | 1611 | 1608 | 1611 | 1608 | 1611 | 742  |
| 165° | 1699 | 1695 | 1699 | 1695 | 1699 | 480  |
| 175° | 1739 | 1733 | 1739 | 1733 | 1739 | 166  |
| 180° | 1739 | 1739 | 1739 | 1739 | 1739 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1852.9 | 1865.6 | 1875.1 | 1881.4 | 1897.2 | 1906.7 | 1914.6 | 1928.9 | 1928.9 | 1932.0 | 1938.3 |
| 5°     | 1846.6 | 1873.5 | 1892.5 | 1917.8 | 1951.0 | 1966.8 | 1989.0 | 2008.0 | 2034.9 | 2049.1 | 2063.3 |
| 7.5°   | 1832.3 | 1870.3 | 1909.9 | 1947.8 | 1996.9 | 2028.5 | 2050.7 | 2099.7 | 2134.6 | 2177.3 | 2210.5 |
| 10°    | 1813.3 | 1865.6 | 1916.2 | 1974.7 | 2041.2 | 2088.7 | 2121.9 | 2186.8 | 2253.2 | 2313.4 | 2364.0 |
| 12.5°  | 1789.6 | 1852.9 | 1925.7 | 1996.9 | 2090.2 | 2137.7 | 2191.5 | 2272.2 | 2367.2 | 2443.1 | 2511.1 |
| 15°    | 1764.3 | 1837.1 | 1919.4 | 2006.4 | 2123.5 | 2189.9 | 2267.5 | 2365.6 | 2471.6 | 2580.8 | 2674.1 |
| 17.5°  | 1724.7 | 1816.5 | 1908.3 | 2034.9 | 2172.5 | 2212.1 | 2278.5 | 2413.0 | 2544.4 | 2642.5 | 2756.4 |
| 20°    | 1685.2 | 1788.0 | 1903.5 | 2017.5 | 2166.2 | 2258.0 | 2319.7 | 2462.1 | 2602.9 | 2721.6 | 2830.8 |
| 22.5°  | 1648.8 | 1756.4 | 1876.6 | 2020.6 | 2159.9 | 2251.6 | 2329.2 | 2477.9 | 2640.9 | 2773.8 | 2908.3 |
| 25°    | 1604.5 | 1721.6 | 1854.5 | 1990.6 | 2159.9 | 2229.5 | 2314.9 | 2487.4 | 2659.9 | 2813.4 | 2979.5 |
| 27.5°  | 1557.0 | 1675.7 | 1807.0 | 1946.3 | 2101.3 | 2204.2 | 2288.0 | 2473.2 | 2683.6 | 2848.2 | 3019.1 |
| 30°    | 1509.5 | 1631.4 | 1758.0 | 1883.0 | 2057.0 | 2155.1 | 2251.6 | 2455.8 | 2696.3 | 2884.6 | 3015.9 |
| 32.5°  | 1463.6 | 1566.5 | 1691.5 | 1813.3 | 1985.8 | 2093.4 | 2202.6 | 2438.4 | 2701.0 | 2859.3 | 2922.5 |
| 35°    | 1400.4 | 1508.0 | 1609.2 | 1739.0 | 1913.0 | 2019.0 | 2147.2 | 2436.8 | 2680.5 | 2778.6 | 2746.9 |
| 37.5°  | 1341.8 | 1432.0 | 1528.5 | 1644.0 | 1822.8 | 1960.5 | 2093.4 | 2395.6 | 2612.4 | 2618.7 | 2439.9 |
| 40°    | 1276.9 | 1351.3 | 1432.0 | 1553.8 | 1746.9 | 1883.0 | 2027.0 | 2332.3 | 2489.0 | 2395.6 | 2080.8 |
| 42.5°  | 1202.6 | 1269.0 | 1332.3 | 1451.0 | 1661.4 | 1813.3 | 1968.4 | 2253.2 | 2310.2 | 2095.0 | 1767.5 |
| 45°    | 1123.4 | 1177.2 | 1235.8 | 1360.8 | 1571.2 | 1721.6 | 1876.6 | 2131.4 | 2072.8 | 1769.0 | 1457.3 |
| 47.5°  | 1041.2 | 1087.1 | 1144.0 | 1257.9 | 1474.7 | 1628.2 | 1775.4 | 1957.3 | 1808.6 | 1482.6 | 1221.6 |
| 50°    | 958.9  | 995.3  | 1050.7 | 1167.8 | 1376.6 | 1515.9 | 1651.9 | 1770.6 | 1561.8 | 1272.2 | 1009.5 |
| 52.5°  | 878.2  | 906.7  | 963.6  | 1063.3 | 1265.9 | 1398.8 | 1496.9 | 1542.8 | 1330.7 | 1050.7 | 876.6  |
| 55°    | 792.7  | 824.4  | 862.4  | 963.6  | 1164.6 | 1262.7 | 1327.6 | 1326.0 | 1107.6 | 890.8  | 724.7  |
| 57.5°  | 710.5  | 738.9  | 772.2  | 873.4  | 1036.4 | 1102.9 | 1158.3 | 1131.4 | 924.1  | 729.5  | 621.9  |
| 60°    | 637.7  | 653.5  | 689.9  | 775.3  | 898.8  | 955.7  | 987.4  | 941.5  | 754.8  | 615.5  | 514.3  |
| 62.5°  | 558.6  | 574.4  | 604.4  | 685.1  | 761.1  | 791.2  | 818.1  | 759.5  | 623.4  | 501.6  | 439.9  |
| 65°    | 485.8  | 506.3  | 525.3  | 590.2  | 631.3  | 667.7  | 664.6  | 615.5  | 487.4  | 408.2  | 357.6  |
| 67.5°  | 422.5  | 430.4  | 446.2  | 485.8  | 504.8  | 531.7  | 533.2  | 477.9  | 392.4  | 332.3  | 302.2  |
| 70°    | 354.4  | 362.4  | 373.4  | 392.4  | 405.1  | 411.4  | 408.2  | 359.2  | 295.9  | 259.5  | 232.6  |
| 72.5°  | 295.9  | 294.3  | 302.2  | 302.2  | 314.9  | 313.3  | 303.8  | 265.8  | 224.7  | 194.6  | 178.8  |
| 75°    | 232.6  | 234.2  | 235.8  | 232.6  | 227.9  | 221.5  | 213.6  | 185.1  | 158.2  | 144.0  | 129.8  |
| 77.5°  | 182.0  | 178.8  | 180.4  | 169.3  | 163.0  | 156.6  | 145.6  | 131.3  | 109.2  | 106.0  | 99.7   |
| 80°    | 129.8  | 128.2  | 126.6  | 121.8  | 107.6  | 101.3  | 93.4   | 85.4   | 80.7   | 77.5   | 76.0   |
| 82.5°  | 87.0   | 87.0   | 83.9   | 74.4   | 66.5   | 61.7   | 60.1   | 57.0   | 52.2   | 52.2   | 50.6   |
| 85°    | 52.2   | 50.6   | 47.5   | 38.0   | 33.2   | 33.2   | 33.2   | 33.2   | 30.1   | 30.1   | 28.5   |
| 87.5°  | 20.6   | 19.0   | 14.2   | 14.2   | 12.7   | 12.7   | 12.7   | 11.1   | 11.1   | 9.5    | 9.5    |
| 90°    | 1.3    | 4.2    | 7.0    | 9.9    | 12.8   | 14.2   | 16.1   | 19.8   | 23.5   | 27.3   | 31.0   |
| 92.5°  | 29.7   | 28.0   | 26.3   | 24.6   | 22.9   | 22.0   | 23.3   | 25.9   | 28.4   | 31.0   | 33.6   |
| 95°    | 78.8   | 67.0   | 55.2   | 43.5   | 31.7   | 25.8   | 27.4   | 30.6   | 33.7   | 36.9   | 40.1   |
| 97.5°  | 143.4  | 135.4  | 127.3  | 119.3  | 111.2  | 107.2  | 99.9   | 85.2   | 70.6   | 55.9   | 41.3   |
| 100°   | 218.3  | 224.1  | 229.8  | 235.6  | 241.3  | 244.2  | 221.8  | 177.0  | 132.2  | 87.4   | 42.6   |
| 102.5° | 303.6  | 307.3  | 311.1  | 314.8  | 318.5  | 320.4  | 295.4  | 245.5  | 195.5  | 145.6  | 95.6   |
| 105°   | 385.0  | 388.2  | 391.3  | 394.5  | 397.6  | 399.2  | 386.3  | 360.4  | 334.6  | 308.7  | 282.9  |
| 107.5° | 471.6  | 474.2  | 476.8  | 479.3  | 481.9  | 483.2  | 485.4  | 489.7  | 494.0  | 498.3  | 502.6  |
| 110°   | 558.1  | 560.4  | 562.7  | 565.0  | 567.3  | 568.5  | 570.1  | 573.2  | 576.4  | 579.5  | 582.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 640.8  | 642.8  | 644.8  | 646.9  | 648.9  | 649.9  | 651.5  | 654.6  | 657.8  | 660.9  | 664.1  |
| 115°   | 722.2  | 723.9  | 725.7  | 727.4  | 729.1  | 730.0  | 731.3  | 733.9  | 736.4  | 739.0  | 741.6  |
| 117.5° | 802.3  | 804.3  | 806.3  | 808.4  | 810.4  | 811.4  | 812.1  | 813.5  | 815.0  | 816.4  | 817.8  |
| 120°   | 876.0  | 878.6  | 881.2  | 883.7  | 886.3  | 887.6  | 888.0  | 888.9  | 889.8  | 890.6  | 891.5  |
| 122.5° | 950.9  | 952.9  | 954.9  | 956.9  | 958.9  | 959.9  | 960.5  | 961.6  | 962.8  | 963.9  | 965.1  |
| 125°   | 1018.1 | 1020.4 | 1022.7 | 1025.0 | 1027.3 | 1028.4 | 1029.0 | 1030.1 | 1031.3 | 1032.4 | 1033.6 |
| 127.5° | 1085.3 | 1087.6 | 1089.9 | 1092.2 | 1094.5 | 1095.6 | 1096.3 | 1097.8 | 1099.2 | 1100.7 | 1102.1 |
| 130°   | 1147.3 | 1149.6 | 1151.9 | 1154.2 | 1156.5 | 1157.6 | 1158.2 | 1159.3 | 1160.5 | 1161.6 | 1162.8 |
| 132.5° | 1206.7 | 1209.0 | 1211.3 | 1213.6 | 1215.9 | 1217.1 | 1217.5 | 1218.4 | 1219.2 | 1220.1 | 1220.9 |
| 135°   | 1267.4 | 1269.1 | 1270.9 | 1272.6 | 1274.3 | 1275.2 | 1275.8 | 1276.9 | 1278.1 | 1279.2 | 1280.4 |
| 137.5° | 1319.1 | 1321.4 | 1323.7 | 1326.0 | 1328.3 | 1329.5 | 1329.8 | 1330.3 | 1330.9 | 1331.4 | 1332.0 |
| 140°   | 1370.8 | 1372.5 | 1374.2 | 1375.9 | 1377.6 | 1378.5 | 1378.9 | 1379.8 | 1380.7 | 1381.5 | 1382.4 |
| 142.5° | 1418.6 | 1420.3 | 1422.1 | 1423.8 | 1425.5 | 1426.4 | 1426.8 | 1427.7 | 1428.5 | 1429.4 | 1430.2 |
| 145°   | 1462.5 | 1464.5 | 1466.5 | 1468.6 | 1470.6 | 1471.6 | 1471.9 | 1472.5 | 1473.0 | 1473.6 | 1474.2 |
| 147.5° | 1505.2 | 1506.6 | 1508.0 | 1509.5 | 1510.9 | 1511.6 | 1511.9 | 1512.5 | 1513.0 | 1513.6 | 1514.2 |
| 150°   | 1543.9 | 1544.8 | 1545.6 | 1546.5 | 1547.4 | 1547.8 | 1548.1 | 1548.7 | 1549.2 | 1549.8 | 1550.4 |
| 152.5° | 1578.8 | 1579.1 | 1579.4 | 1579.7 | 1580.0 | 1580.1 | 1580.2 | 1580.5 | 1580.8 | 1581.1 | 1581.4 |
| 155°   | 1611.1 | 1610.5 | 1609.9 | 1609.4 | 1608.8 | 1608.5 | 1608.6 | 1608.9 | 1609.2 | 1609.5 | 1609.8 |
| 157.5° | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.8 | 1636.5 | 1636.2 | 1636.0 | 1635.7 |
| 160°   | 1660.2 | 1659.9 | 1659.6 | 1659.3 | 1659.0 | 1658.9 | 1658.8 | 1658.5 | 1658.2 | 1657.9 | 1657.6 |
| 162.5° | 1682.2 | 1681.3 | 1680.5 | 1679.6 | 1678.7 | 1678.3 | 1678.2 | 1677.9 | 1677.6 | 1677.3 | 1677.0 |
| 165°   | 1699.0 | 1698.1 | 1697.3 | 1696.4 | 1695.5 | 1695.1 | 1695.0 | 1694.7 | 1694.4 | 1694.1 | 1693.8 |
| 167.5° | 1713.2 | 1712.0 | 1710.9 | 1709.7 | 1708.6 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.0 |
| 170°   | 1724.8 | 1723.6 | 1722.5 | 1721.3 | 1720.2 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1719.6 |
| 172.5° | 1732.6 | 1731.2 | 1729.7 | 1728.3 | 1726.8 | 1726.1 | 1726.2 | 1726.5 | 1726.8 | 1727.1 | 1727.4 |
| 175°   | 1739.0 | 1737.6 | 1736.2 | 1734.7 | 1733.3 | 1732.6 | 1732.7 | 1733.0 | 1733.3 | 1733.5 | 1733.8 |
| 177.5° | 1741.6 | 1740.2 | 1738.7 | 1737.3 | 1735.8 | 1735.1 | 1735.2 | 1735.5 | 1735.8 | 1736.1 | 1736.4 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1951.0 | 1951.0 | 1965.2 | 1979.5 | 1971.6 | 1976.3 | 1993.7 | 1987.4 | 2000.1 | 1998.5 | 2003.2 |
| 5°     | 2098.2 | 2115.6 | 2129.8 | 2159.9 | 2164.6 | 2159.9 | 2189.9 | 2197.8 | 2212.1 | 2194.7 | 2202.6 |
| 7.5°   | 2264.3 | 2300.7 | 2335.5 | 2379.8 | 2394.1 | 2397.2 | 2413.0 | 2435.2 | 2454.2 | 2419.4 | 2436.8 |
| 10°    | 2425.7 | 2481.1 | 2552.3 | 2591.8 | 2626.7 | 2639.3 | 2652.0 | 2666.2 | 2688.4 | 2708.9 | 2693.1 |
| 12.5°  | 2599.8 | 2680.5 | 2748.5 | 2819.7 | 2862.4 | 2857.7 | 2894.1 | 2903.6 | 2921.0 | 2925.7 | 2932.0 |
| 15°    | 2742.2 | 2856.1 | 2898.8 | 3004.8 | 3014.3 | 3046.0 | 3087.1 | 3123.5 | 3128.3 | 3118.8 | 3118.8 |
| 17.5°  | 2878.2 | 2976.3 | 3052.3 | 3137.7 | 3155.1 | 3182.0 | 3234.3 | 3251.7 | 3258.0 | 3256.4 | 3256.4 |
| 20°    | 2989.0 | 3053.9 | 3182.0 | 3253.3 | 3281.7 | 3316.5 | 3352.9 | 3375.1 | 3379.8 | 3386.2 | 3376.7 |
| 22.5°  | 3061.8 | 3159.9 | 3264.3 | 3322.9 | 3346.6 | 3359.3 | 3383.0 | 3389.3 | 3381.4 | 3383.0 | 3384.6 |
| 25°    | 3118.8 | 3215.3 | 3278.6 | 3294.4 | 3292.8 | 3277.0 | 3259.6 | 3229.5 | 3226.4 | 3213.7 | 3188.4 |
| 27.5°  | 3134.6 | 3171.0 | 3163.1 | 3098.2 | 3033.3 | 3027.0 | 2922.5 | 2865.6 | 2800.7 | 2810.2 | 2773.8 |
| 30°    | 3049.1 | 3001.7 | 2889.3 | 2724.8 | 2656.7 | 2546.0 | 2428.9 | 2307.0 | 2259.6 | 2207.3 | 2303.9 |
| 32.5°  | 2840.3 | 2671.0 | 2471.6 | 2258.0 | 2144.0 | 2045.9 | 1920.9 | 1832.3 | 1781.7 | 1739.0 | 1821.3 |
| 35°    | 2525.4 | 2261.1 | 1996.9 | 1794.4 | 1701.0 | 1612.4 | 1495.3 | 1451.0 | 1387.7 | 1394.0 | 1401.9 |
| 37.5°  | 2120.3 | 1829.2 | 1629.8 | 1430.4 | 1368.7 | 1332.3 | 1246.9 | 1178.8 | 1156.7 | 1150.3 | 1150.3 |
| 40°    | 1740.6 | 1501.6 | 1324.4 | 1167.8 | 1120.3 | 1090.2 | 1022.2 | 990.5  | 966.8  | 960.5  | 968.4  |
| 42.5°  | 1439.9 | 1235.8 | 1098.1 | 993.7  | 960.5  | 922.5  | 894.0  | 854.5  | 849.7  | 838.6  | 852.9  |
| 45°    | 1208.9 | 1031.7 | 928.8  | 852.9  | 824.4  | 810.1  | 778.5  | 754.8  | 745.3  | 743.7  | 754.8  |
| 47.5°  | 1025.3 | 887.7  | 797.5  | 750.0  | 727.9  | 713.6  | 686.7  | 677.2  | 667.7  | 670.9  | 666.2  |
| 50°    | 860.8  | 757.9  | 699.4  | 656.7  | 642.4  | 628.2  | 610.8  | 601.3  | 596.5  | 596.5  | 595.0  |
| 52.5°  | 738.9  | 653.5  | 615.5  | 576.0  | 569.6  | 561.7  | 542.7  | 536.4  | 528.5  | 526.9  | 533.2  |
| 55°    | 632.9  | 574.4  | 536.4  | 512.7  | 506.3  | 490.5  | 482.6  | 474.7  | 469.9  | 466.8  | 468.4  |
| 57.5°  | 541.2  | 496.8  | 471.5  | 451.0  | 439.9  | 433.6  | 419.3  | 417.7  | 414.6  | 414.6  | 413.0  |
| 60°    | 465.2  | 433.6  | 403.5  | 390.8  | 382.9  | 375.0  | 373.4  | 363.9  | 359.2  | 362.4  | 360.8  |
| 62.5°  | 394.0  | 368.7  | 351.3  | 337.0  | 332.3  | 326.0  | 321.2  | 318.0  | 313.3  | 314.9  | 314.9  |
| 65°    | 329.1  | 308.6  | 295.9  | 283.2  | 281.7  | 275.3  | 273.7  | 270.6  | 270.6  | 269.0  | 272.2  |
| 67.5°  | 270.6  | 256.3  | 245.3  | 237.3  | 232.6  | 234.2  | 227.9  | 223.1  | 223.1  | 221.5  | 226.3  |
| 70°    | 215.2  | 207.3  | 196.2  | 186.7  | 180.4  | 180.4  | 172.5  | 170.9  | 170.9  | 170.9  | 169.3  |
| 72.5°  | 166.1  | 151.9  | 147.2  | 144.0  | 144.0  | 144.0  | 140.8  | 140.8  | 139.2  | 140.8  | 139.2  |
| 75°    | 123.4  | 121.8  | 118.7  | 117.1  | 117.1  | 115.5  | 113.9  | 113.9  | 113.9  | 113.9  | 113.9  |
| 77.5°  | 96.5   | 96.5   | 93.4   | 91.8   | 91.8   | 91.8   | 90.2   | 90.2   | 88.6   | 88.6   | 88.6   |
| 80°    | 71.2   | 71.2   | 68.0   | 68.0   | 68.0   | 66.5   | 66.5   | 66.5   | 68.0   | 66.5   | 66.5   |
| 82.5°  | 49.1   | 49.1   | 47.5   | 49.1   | 47.5   | 45.9   | 45.9   | 45.9   | 44.3   | 45.9   | 45.9   |
| 85°    | 28.5   | 28.5   | 26.9   | 25.3   | 26.9   | 26.9   | 25.3   | 26.9   | 25.3   | 26.9   | 25.3   |
| 87.5°  | 11.1   | 9.5    | 9.5    | 9.5    | 7.9    | 9.5    | 7.9    | 7.9    | 9.5    | 7.9    | 9.5    |
| 90°    | 32.2   | 33.3   | 34.5   | 35.6   | 36.2   | 36.5   | 37.1   | 37.6   | 38.2   | 38.8   | 38.2   |
| 92.5°  | 35.6   | 37.6   | 39.6   | 41.6   | 42.6   | 42.7   | 43.0   | 43.3   | 43.6   | 43.9   | 43.6   |
| 95°    | 42.1   | 44.1   | 46.1   | 48.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   |
| 97.5°  | 43.6   | 45.9   | 48.2   | 50.5   | 51.7   | 51.8   | 52.1   | 52.4   | 52.7   | 53.0   | 52.7   |
| 100°   | 44.9   | 47.2   | 49.5   | 51.8   | 53.0   | 53.1   | 53.4   | 53.7   | 54.0   | 54.3   | 54.0   |
| 102.5° | 86.1   | 76.7   | 67.2   | 57.7   | 53.0   | 53.3   | 53.9   | 54.4   | 55.0   | 55.6   | 55.0   |
| 105°   | 232.1  | 181.3  | 130.5  | 79.7   | 54.3   | 54.6   | 55.1   | 55.7   | 56.2   | 56.8   | 56.2   |
| 107.5° | 458.4  | 414.2  | 369.9  | 325.7  | 303.6  | 284.8  | 247.2  | 209.6  | 172.0  | 134.4  | 172.0  |
| 110°   | 573.2  | 563.7  | 554.2  | 544.7  | 540.0  | 519.5  | 478.4  | 437.4  | 396.3  | 355.3  | 396.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 666.7  | 669.3  | 671.8  | 674.4  | 675.7  | 675.4  | 674.8  | 674.3  | 673.7  | 673.1  | 673.7  |
| 115°   | 744.5  | 747.3  | 750.2  | 753.1  | 754.5  | 755.1  | 756.2  | 757.4  | 758.5  | 759.7  | 758.5  |
| 117.5° | 820.1  | 822.4  | 824.7  | 827.0  | 828.2  | 828.3  | 828.6  | 828.9  | 829.2  | 829.5  | 829.2  |
| 120°   | 893.8  | 896.1  | 898.4  | 900.7  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  |
| 122.5° | 966.5  | 968.0  | 969.4  | 970.9  | 971.6  | 971.7  | 972.0  | 972.3  | 972.6  | 972.9  | 972.6  |
| 125°   | 1034.2 | 1034.8 | 1035.3 | 1035.9 | 1036.2 | 1036.5 | 1037.1 | 1037.6 | 1038.2 | 1038.8 | 1038.2 |
| 127.5° | 1102.9 | 1103.8 | 1104.6 | 1105.5 | 1105.9 | 1105.6 | 1105.1 | 1104.5 | 1104.0 | 1103.4 | 1104.0 |
| 130°   | 1164.0 | 1165.1 | 1166.3 | 1167.4 | 1168.0 | 1167.7 | 1167.1 | 1166.6 | 1166.0 | 1165.4 | 1166.0 |
| 132.5° | 1222.1 | 1223.2 | 1224.4 | 1225.5 | 1226.1 | 1225.7 | 1224.8 | 1223.9 | 1223.1 | 1222.2 | 1223.1 |
| 135°   | 1281.2 | 1282.1 | 1282.9 | 1283.8 | 1284.2 | 1283.8 | 1282.9 | 1282.1 | 1281.2 | 1280.4 | 1281.2 |
| 137.5° | 1333.4 | 1334.9 | 1336.3 | 1337.8 | 1338.5 | 1338.2 | 1337.6 | 1337.1 | 1336.5 | 1335.9 | 1336.5 |
| 140°   | 1383.6 | 1384.7 | 1385.9 | 1387.0 | 1387.6 | 1387.3 | 1386.7 | 1386.2 | 1385.6 | 1385.0 | 1385.6 |
| 142.5° | 1431.1 | 1431.9 | 1432.8 | 1433.7 | 1434.1 | 1433.7 | 1432.8 | 1431.9 | 1431.1 | 1430.2 | 1431.1 |
| 145°   | 1474.8 | 1475.3 | 1475.9 | 1476.4 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 |
| 147.5° | 1514.8 | 1515.4 | 1515.9 | 1516.5 | 1516.8 | 1516.1 | 1514.6 | 1513.2 | 1511.7 | 1510.3 | 1511.7 |
| 150°   | 1551.0 | 1551.6 | 1552.1 | 1552.7 | 1553.0 | 1552.6 | 1551.7 | 1550.8 | 1550.0 | 1549.1 | 1550.0 |
| 152.5° | 1582.6 | 1583.7 | 1584.9 | 1586.0 | 1586.6 | 1585.9 | 1584.4 | 1583.0 | 1581.5 | 1580.1 | 1581.5 |
| 155°   | 1611.2 | 1612.7 | 1614.1 | 1615.6 | 1616.3 | 1615.4 | 1613.7 | 1612.0 | 1610.2 | 1608.5 | 1610.2 |
| 157.5° | 1637.4 | 1639.1 | 1640.8 | 1642.5 | 1643.4 | 1642.3 | 1640.0 | 1637.7 | 1635.4 | 1633.1 | 1635.4 |
| 160°   | 1659.3 | 1661.1 | 1662.8 | 1664.5 | 1665.4 | 1664.4 | 1662.4 | 1660.3 | 1658.3 | 1656.3 | 1658.3 |
| 162.5° | 1679.0 | 1681.0 | 1683.0 | 1685.0 | 1686.0 | 1685.1 | 1683.4 | 1681.7 | 1680.0 | 1678.3 | 1680.0 |
| 165°   | 1696.1 | 1698.4 | 1700.7 | 1703.0 | 1704.1 | 1703.1 | 1701.1 | 1699.1 | 1697.1 | 1695.1 | 1697.1 |
| 167.5° | 1710.3 | 1712.6 | 1714.9 | 1717.2 | 1718.3 | 1717.2 | 1714.9 | 1712.6 | 1710.3 | 1708.0 | 1710.3 |
| 170°   | 1721.9 | 1724.2 | 1726.5 | 1728.8 | 1730.0 | 1728.8 | 1726.5 | 1724.2 | 1721.9 | 1719.6 | 1721.9 |
| 172.5° | 1729.7 | 1732.0 | 1734.3 | 1736.6 | 1737.7 | 1736.4 | 1733.8 | 1731.3 | 1728.7 | 1726.1 | 1728.7 |
| 175°   | 1735.8 | 1737.8 | 1739.9 | 1741.9 | 1742.9 | 1741.8 | 1739.5 | 1737.2 | 1734.9 | 1732.6 | 1734.9 |
| 177.5° | 1738.7 | 1741.0 | 1743.3 | 1745.6 | 1746.8 | 1745.4 | 1742.5 | 1739.6 | 1736.7 | 1733.8 | 1736.7 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1995.3 | 1985.8 | 1979.5 | 1974.7 | 1970.0 | 1984.2 | 1965.2 | 1944.7 | 1930.4 | 1920.9 | 1917.8 |
| 5°     | 2204.2 | 2183.6 | 2166.2 | 2152.0 | 2155.1 | 2155.1 | 2121.9 | 2085.5 | 2053.9 | 2036.4 | 2017.5 |
| 7.5°   | 2446.3 | 2424.1 | 2389.3 | 2381.4 | 2375.1 | 2335.5 | 2302.3 | 2235.8 | 2196.3 | 2156.7 | 2121.9 |
| 10°    | 2686.8 | 2658.3 | 2625.1 | 2614.0 | 2598.2 | 2549.1 | 2498.5 | 2413.0 | 2364.0 | 2291.2 | 2245.3 |
| 12.5°  | 2911.5 | 2876.7 | 2843.4 | 2835.5 | 2811.8 | 2769.1 | 2682.0 | 2593.4 | 2509.6 | 2432.0 | 2351.3 |
| 15°    | 3099.8 | 3090.3 | 3039.6 | 3008.0 | 2955.8 | 2897.2 | 2878.2 | 2758.0 | 2652.0 | 2571.3 | 2425.7 |
| 17.5°  | 3258.0 | 3213.7 | 3166.2 | 3145.7 | 3125.1 | 3057.0 | 2989.0 | 2865.6 | 2751.7 | 2633.0 | 2539.6 |
| 20°    | 3384.6 | 3335.5 | 3302.3 | 3272.2 | 3262.7 | 3185.2 | 3077.6 | 2968.4 | 2843.4 | 2710.5 | 2588.7 |
| 22.5°  | 3390.9 | 3384.6 | 3362.4 | 3345.0 | 3326.0 | 3275.4 | 3190.0 | 3053.9 | 2921.0 | 2775.4 | 2615.6 |
| 25°    | 3259.6 | 3250.1 | 3313.4 | 3297.6 | 3310.2 | 3291.2 | 3245.3 | 3131.4 | 2976.3 | 2805.5 | 2644.1 |
| 27.5°  | 2864.0 | 2960.5 | 3060.2 | 3095.0 | 3118.8 | 3186.8 | 3208.9 | 3145.7 | 3020.7 | 2838.7 | 2658.3 |
| 30°    | 2326.0 | 2454.2 | 2615.6 | 2702.6 | 2769.1 | 2895.6 | 3060.2 | 3080.8 | 3022.2 | 2876.7 | 2655.1 |
| 32.5°  | 1826.0 | 1943.1 | 2072.8 | 2175.7 | 2264.3 | 2523.8 | 2745.3 | 2905.1 | 2933.6 | 2857.7 | 2663.0 |
| 35°    | 1471.6 | 1522.2 | 1645.6 | 1743.7 | 1864.0 | 2085.5 | 2346.6 | 2604.5 | 2778.6 | 2788.1 | 2639.3 |
| 37.5°  | 1213.6 | 1240.5 | 1348.1 | 1403.5 | 1474.7 | 1669.3 | 1913.0 | 2250.1 | 2520.6 | 2648.8 | 2572.9 |
| 40°    | 1004.8 | 1066.5 | 1128.2 | 1159.8 | 1210.5 | 1345.0 | 1579.2 | 1843.4 | 2178.9 | 2416.2 | 2470.0 |
| 42.5°  | 871.9  | 898.8  | 938.3  | 982.6  | 1014.3 | 1131.4 | 1288.0 | 1530.1 | 1832.3 | 2163.0 | 2311.8 |
| 45°    | 769.0  | 778.5  | 819.6  | 848.1  | 881.4  | 963.6  | 1074.4 | 1276.9 | 1542.8 | 1868.7 | 2121.9 |
| 47.5°  | 683.6  | 702.6  | 724.7  | 742.1  | 764.3  | 827.6  | 922.5  | 1069.6 | 1303.8 | 1595.0 | 1867.1 |
| 50°    | 607.6  | 618.7  | 647.2  | 655.1  | 670.9  | 715.2  | 788.0  | 900.3  | 1093.4 | 1326.0 | 1607.6 |
| 52.5°  | 536.4  | 557.0  | 568.1  | 579.1  | 593.4  | 629.8  | 677.2  | 769.0  | 914.6  | 1132.9 | 1371.9 |
| 55°    | 481.0  | 487.4  | 503.2  | 512.7  | 523.7  | 549.1  | 590.2  | 658.2  | 772.2  | 946.2  | 1172.5 |
| 57.5°  | 427.2  | 427.2  | 443.1  | 451.0  | 462.0  | 481.0  | 517.4  | 569.6  | 651.9  | 781.7  | 989.0  |
| 60°    | 370.3  | 371.8  | 384.5  | 394.0  | 397.2  | 416.2  | 446.2  | 487.4  | 550.6  | 645.6  | 814.9  |
| 62.5°  | 319.6  | 327.5  | 333.9  | 337.0  | 348.1  | 359.2  | 384.5  | 413.0  | 457.3  | 541.2  | 661.4  |
| 65°    | 276.9  | 278.5  | 283.2  | 286.4  | 291.1  | 303.8  | 322.8  | 341.8  | 379.8  | 441.5  | 539.6  |
| 67.5°  | 227.9  | 234.2  | 240.5  | 240.5  | 245.3  | 251.6  | 270.6  | 286.4  | 314.9  | 351.3  | 417.7  |
| 70°    | 170.9  | 174.1  | 183.5  | 188.3  | 194.6  | 205.7  | 215.2  | 224.7  | 246.8  | 273.7  | 324.4  |
| 72.5°  | 142.4  | 142.4  | 145.6  | 147.2  | 147.2  | 155.1  | 169.3  | 178.8  | 189.9  | 208.9  | 243.7  |
| 75°    | 113.9  | 113.9  | 118.7  | 117.1  | 120.3  | 123.4  | 125.0  | 131.3  | 137.7  | 151.9  | 172.5  |
| 77.5°  | 90.2   | 91.8   | 91.8   | 93.4   | 93.4   | 94.9   | 96.5   | 99.7   | 102.9  | 110.8  | 120.3  |
| 80°    | 66.5   | 68.0   | 68.0   | 69.6   | 69.6   | 71.2   | 72.8   | 74.4   | 77.5   | 80.7   | 85.4   |
| 82.5°  | 45.9   | 47.5   | 47.5   | 49.1   | 47.5   | 49.1   | 50.6   | 50.6   | 52.2   | 55.4   | 57.0   |
| 85°    | 26.9   | 26.9   | 28.5   | 26.9   | 26.9   | 26.9   | 28.5   | 28.5   | 30.1   | 34.8   | 34.8   |
| 87.5°  | 7.9    | 9.5    | 7.9    | 9.5    | 9.5    | 9.5    | 9.5    | 11.1   | 11.1   | 12.7   | 14.2   |
| 90°    | 37.6   | 37.1   | 36.5   | 36.2   | 35.6   | 34.5   | 33.3   | 32.2   | 31.0   | 27.3   | 23.5   |
| 92.5°  | 43.3   | 43.0   | 42.7   | 42.6   | 41.6   | 39.6   | 37.6   | 35.6   | 33.6   | 31.0   | 28.4   |
| 95°    | 49.1   | 49.1   | 49.1   | 49.1   | 48.1   | 46.1   | 44.1   | 42.1   | 40.1   | 36.9   | 33.7   |
| 97.5°  | 52.4   | 52.1   | 51.8   | 51.7   | 50.5   | 48.2   | 45.9   | 43.6   | 41.3   | 55.9   | 70.6   |
| 100°   | 53.7   | 53.4   | 53.1   | 53.0   | 51.8   | 49.5   | 47.2   | 44.9   | 42.6   | 87.4   | 132.2  |
| 102.5° | 54.4   | 53.9   | 53.3   | 53.0   | 57.7   | 67.2   | 76.7   | 86.1   | 95.6   | 145.6  | 195.5  |
| 105°   | 55.7   | 55.1   | 54.6   | 54.3   | 79.7   | 130.5  | 181.3  | 232.1  | 282.9  | 308.7  | 334.6  |
| 107.5° | 209.6  | 247.2  | 284.8  | 303.6  | 325.7  | 369.9  | 414.2  | 458.4  | 502.6  | 498.3  | 494.0  |
| 110°   | 437.4  | 478.4  | 519.5  | 540.0  | 544.7  | 554.2  | 563.7  | 573.2  | 582.7  | 579.5  | 576.4  |

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 674.3  | 674.8  | 675.4  | 675.7  | 674.4  | 671.8  | 669.3  | 666.7  | 664.1  | 660.9  | 657.8  |
| 115°   | 757.4  | 756.2  | 755.1  | 754.5  | 753.1  | 750.2  | 747.3  | 744.5  | 741.6  | 739.0  | 736.4  |
| 117.5° | 828.9  | 828.6  | 828.3  | 828.2  | 827.0  | 824.7  | 822.4  | 820.1  | 817.8  | 816.4  | 815.0  |
| 120°   | 901.8  | 901.8  | 901.8  | 901.8  | 900.7  | 898.4  | 896.1  | 893.8  | 891.5  | 890.6  | 889.8  |
| 122.5° | 972.3  | 972.0  | 971.7  | 971.6  | 970.9  | 969.4  | 968.0  | 966.5  | 965.1  | 963.9  | 962.8  |
| 125°   | 1037.6 | 1037.1 | 1036.5 | 1036.2 | 1035.9 | 1035.3 | 1034.8 | 1034.2 | 1033.6 | 1032.4 | 1031.3 |
| 127.5° | 1104.5 | 1105.1 | 1105.6 | 1105.9 | 1105.5 | 1104.6 | 1103.8 | 1102.9 | 1102.1 | 1100.7 | 1099.2 |
| 130°   | 1166.6 | 1167.1 | 1167.7 | 1168.0 | 1167.4 | 1166.3 | 1165.1 | 1164.0 | 1162.8 | 1161.6 | 1160.5 |
| 132.5° | 1223.9 | 1224.8 | 1225.7 | 1226.1 | 1225.5 | 1224.4 | 1223.2 | 1222.1 | 1220.9 | 1220.1 | 1219.2 |
| 135°   | 1282.1 | 1282.9 | 1283.8 | 1284.2 | 1283.8 | 1282.9 | 1282.1 | 1281.2 | 1280.4 | 1279.2 | 1278.1 |
| 137.5° | 1337.1 | 1337.6 | 1338.2 | 1338.5 | 1337.8 | 1336.3 | 1334.9 | 1333.4 | 1332.0 | 1331.4 | 1330.9 |
| 140°   | 1386.2 | 1386.7 | 1387.3 | 1387.6 | 1387.0 | 1385.9 | 1384.7 | 1383.6 | 1382.4 | 1381.5 | 1380.7 |
| 142.5° | 1431.9 | 1432.8 | 1433.7 | 1434.1 | 1433.7 | 1432.8 | 1431.9 | 1431.1 | 1430.2 | 1429.4 | 1428.5 |
| 145°   | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.4 | 1475.9 | 1475.3 | 1474.8 | 1474.2 | 1473.6 | 1473.0 |
| 147.5° | 1513.2 | 1514.6 | 1516.1 | 1516.8 | 1516.5 | 1515.9 | 1515.4 | 1514.8 | 1514.2 | 1513.6 | 1513.0 |
| 150°   | 1550.8 | 1551.7 | 1552.6 | 1553.0 | 1552.7 | 1552.1 | 1551.6 | 1551.0 | 1550.4 | 1549.8 | 1549.2 |
| 152.5° | 1583.0 | 1584.4 | 1585.9 | 1586.6 | 1586.0 | 1584.9 | 1583.7 | 1582.6 | 1581.4 | 1581.1 | 1580.8 |
| 155°   | 1612.0 | 1613.7 | 1615.4 | 1616.3 | 1615.6 | 1614.1 | 1612.7 | 1611.2 | 1609.8 | 1609.5 | 1609.2 |
| 157.5° | 1637.7 | 1640.0 | 1642.3 | 1643.4 | 1642.5 | 1640.8 | 1639.1 | 1637.4 | 1635.7 | 1636.0 | 1636.2 |
| 160°   | 1660.3 | 1662.4 | 1664.4 | 1665.4 | 1664.5 | 1662.8 | 1661.1 | 1659.3 | 1657.6 | 1657.9 | 1658.2 |
| 162.5° | 1681.7 | 1683.4 | 1685.1 | 1686.0 | 1685.0 | 1683.0 | 1681.0 | 1679.0 | 1677.0 | 1677.3 | 1677.6 |
| 165°   | 1699.1 | 1701.1 | 1703.1 | 1704.1 | 1703.0 | 1700.7 | 1698.4 | 1696.1 | 1693.8 | 1694.1 | 1694.4 |
| 167.5° | 1712.6 | 1714.9 | 1717.2 | 1718.3 | 1717.2 | 1714.9 | 1712.6 | 1710.3 | 1708.0 | 1708.0 | 1708.0 |
| 170°   | 1724.2 | 1726.5 | 1728.8 | 1730.0 | 1728.8 | 1726.5 | 1724.2 | 1721.9 | 1719.6 | 1719.6 | 1719.6 |
| 172.5° | 1731.3 | 1733.8 | 1736.4 | 1737.7 | 1736.6 | 1734.3 | 1732.0 | 1729.7 | 1727.4 | 1727.1 | 1726.8 |
| 175°   | 1737.2 | 1739.5 | 1741.8 | 1742.9 | 1741.9 | 1739.9 | 1737.8 | 1735.8 | 1733.8 | 1733.5 | 1733.3 |
| 177.5° | 1739.6 | 1742.5 | 1745.4 | 1746.8 | 1745.6 | 1743.3 | 1741.0 | 1738.7 | 1736.4 | 1736.1 | 1735.8 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1913.0 | 1905.1 | 1897.2 | 1897.2 | 1879.8 | 1864.0 | 1856.1 | 1859.2 | 1849.7 | 1837.1 | 1824.4 |
| 5°     | 1996.9 | 1965.2 | 1958.9 | 1941.5 | 1917.8 | 1884.5 | 1867.1 | 1851.3 | 1832.3 | 1807.0 | 1783.3 |
| 7.5°   | 2074.4 | 2033.3 | 2011.1 | 1993.7 | 1947.8 | 1902.0 | 1864.0 | 1838.7 | 1805.4 | 1767.5 | 1739.0 |
| 10°    | 2175.7 | 2099.7 | 2076.0 | 2036.4 | 1971.6 | 1906.7 | 1862.4 | 1821.3 | 1775.4 | 1731.1 | 1693.1 |
| 12.5°  | 2256.4 | 2169.4 | 2125.1 | 2085.5 | 2001.6 | 1919.4 | 1845.0 | 1794.4 | 1739.0 | 1689.9 | 1640.9 |
| 15°    | 2348.2 | 2250.1 | 2172.5 | 2125.1 | 2019.0 | 1919.4 | 1835.5 | 1764.3 | 1702.6 | 1642.4 | 1599.7 |
| 17.5°  | 2392.5 | 2269.0 | 2234.2 | 2166.2 | 2012.7 | 1913.0 | 1810.2 | 1734.2 | 1659.9 | 1590.2 | 1539.6 |
| 20°    | 2462.1 | 2318.1 | 2231.1 | 2185.2 | 2049.1 | 1902.0 | 1781.7 | 1694.7 | 1617.1 | 1542.8 | 1489.0 |
| 22.5°  | 2466.8 | 2310.2 | 2253.2 | 2166.2 | 1998.5 | 1868.7 | 1756.4 | 1650.4 | 1560.2 | 1490.5 | 1435.2 |
| 25°    | 2455.8 | 2295.9 | 2216.8 | 2147.2 | 2008.0 | 1849.7 | 1705.7 | 1601.3 | 1512.7 | 1432.0 | 1367.1 |
| 27.5°  | 2451.0 | 2254.8 | 2180.4 | 2110.8 | 1954.2 | 1794.4 | 1675.7 | 1557.0 | 1455.7 | 1384.5 | 1318.1 |
| 30°    | 2444.7 | 2210.5 | 2120.3 | 2039.6 | 1895.6 | 1751.6 | 1609.2 | 1506.4 | 1409.8 | 1319.7 | 1253.2 |
| 32.5°  | 2403.5 | 2150.4 | 2058.6 | 1973.2 | 1818.1 | 1674.1 | 1561.8 | 1452.6 | 1348.1 | 1264.3 | 1204.1 |
| 35°    | 2390.9 | 2095.0 | 1974.7 | 1883.0 | 1731.1 | 1602.9 | 1484.2 | 1394.0 | 1295.9 | 1212.1 | 1140.9 |
| 37.5°  | 2354.5 | 2038.0 | 1908.3 | 1791.2 | 1633.0 | 1511.1 | 1424.1 | 1333.9 | 1239.0 | 1148.8 | 1091.8 |
| 40°    | 2291.2 | 1971.6 | 1824.4 | 1704.2 | 1541.2 | 1417.8 | 1337.1 | 1270.6 | 1177.2 | 1096.5 | 1026.9 |
| 42.5°  | 2197.8 | 1903.5 | 1745.3 | 1618.7 | 1438.3 | 1322.8 | 1256.4 | 1193.1 | 1114.0 | 1030.1 | 973.1  |
| 45°    | 2090.2 | 1813.3 | 1666.2 | 1525.4 | 1341.8 | 1229.5 | 1159.8 | 1121.9 | 1049.1 | 977.9  | 911.4  |
| 47.5°  | 1943.1 | 1720.0 | 1574.4 | 1428.8 | 1242.1 | 1132.9 | 1077.6 | 1039.6 | 989.0  | 911.4  | 857.6  |
| 50°    | 1758.0 | 1599.7 | 1462.1 | 1332.3 | 1144.0 | 1039.6 | 984.2  | 955.7  | 913.0  | 857.6  | 805.4  |
| 52.5°  | 1552.3 | 1460.5 | 1346.6 | 1226.3 | 1044.3 | 946.2  | 895.6  | 873.4  | 841.8  | 789.6  | 745.3  |
| 55°    | 1345.0 | 1305.4 | 1227.9 | 1109.2 | 939.9  | 859.2  | 814.9  | 786.4  | 762.7  | 724.7  | 686.7  |
| 57.5°  | 1159.8 | 1140.9 | 1087.1 | 995.3  | 852.9  | 769.0  | 731.0  | 712.0  | 693.1  | 664.6  | 626.6  |
| 60°    | 968.4  | 989.0  | 933.6  | 887.7  | 757.9  | 685.1  | 651.9  | 631.3  | 621.9  | 596.5  | 572.8  |
| 62.5°  | 802.2  | 821.2  | 789.6  | 754.8  | 663.0  | 598.1  | 577.5  | 558.6  | 552.2  | 530.1  | 506.3  |
| 65°    | 651.9  | 675.7  | 651.9  | 632.9  | 577.5  | 523.7  | 498.4  | 488.9  | 482.6  | 468.4  | 449.4  |
| 67.5°  | 519.0  | 542.7  | 531.7  | 507.9  | 490.5  | 446.2  | 432.0  | 422.5  | 419.3  | 408.2  | 392.4  |
| 70°    | 390.8  | 424.1  | 427.2  | 413.0  | 397.2  | 376.6  | 367.1  | 363.9  | 356.0  | 346.5  | 337.0  |
| 72.5°  | 281.7  | 319.6  | 321.2  | 321.2  | 311.7  | 311.7  | 302.2  | 297.5  | 297.5  | 288.0  | 276.9  |
| 75°    | 207.3  | 232.6  | 235.8  | 238.9  | 243.7  | 248.4  | 242.1  | 242.1  | 240.5  | 231.0  | 226.3  |
| 77.5°  | 137.7  | 159.8  | 167.7  | 178.8  | 185.1  | 185.1  | 188.3  | 191.5  | 188.3  | 183.5  | 180.4  |
| 80°    | 88.6   | 104.4  | 113.9  | 120.3  | 129.8  | 134.5  | 139.2  | 140.8  | 137.7  | 136.1  | 131.3  |
| 82.5°  | 58.5   | 63.3   | 68.0   | 76.0   | 87.0   | 94.9   | 94.9   | 93.4   | 96.5   | 94.9   | 93.4   |
| 85°    | 33.2   | 36.4   | 38.0   | 39.6   | 45.9   | 53.8   | 55.4   | 57.0   | 60.1   | 57.0   | 53.8   |
| 87.5°  | 12.7   | 14.2   | 14.2   | 14.2   | 17.4   | 19.0   | 23.7   | 30.1   | 28.5   | 25.3   | 25.3   |
| 90°    | 19.8   | 16.1   | 14.2   | 12.8   | 9.9    | 7.0    | 4.2    | 1.3    | 4.2    | 7.0    | 9.9    |
| 92.5°  | 25.9   | 23.3   | 22.0   | 22.9   | 24.6   | 26.3   | 28.0   | 29.7   | 28.0   | 26.3   | 24.6   |
| 95°    | 30.6   | 27.4   | 25.8   | 31.7   | 43.5   | 55.2   | 67.0   | 78.8   | 67.0   | 55.2   | 43.5   |
| 97.5°  | 85.2   | 99.9   | 107.2  | 111.2  | 119.3  | 127.3  | 135.4  | 143.4  | 135.4  | 127.3  | 119.3  |
| 100°   | 177.0  | 221.8  | 244.2  | 241.3  | 235.6  | 229.8  | 224.1  | 218.3  | 224.1  | 229.8  | 235.6  |
| 102.5° | 245.5  | 295.4  | 320.4  | 318.5  | 314.8  | 311.1  | 307.3  | 303.6  | 307.3  | 311.1  | 314.8  |
| 105°   | 360.4  | 386.3  | 399.2  | 397.6  | 394.5  | 391.3  | 388.2  | 385.0  | 388.2  | 391.3  | 394.5  |
| 107.5° | 489.7  | 485.4  | 483.2  | 481.9  | 479.3  | 476.8  | 474.2  | 471.6  | 474.2  | 476.8  | 479.3  |
| 110°   | 573.2  | 570.1  | 568.5  | 567.3  | 565.0  | 562.7  | 560.4  | 558.1  | 560.4  | 562.7  | 565.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 654.6  | 651.5  | 649.9  | 648.9  | 646.9  | 644.8  | 642.8  | 640.8  | 642.8  | 644.8  | 646.9  |
| 115°   | 733.9  | 731.3  | 730.0  | 729.1  | 727.4  | 725.7  | 723.9  | 722.2  | 723.9  | 725.7  | 727.4  |
| 117.5° | 813.5  | 812.1  | 811.4  | 810.4  | 808.4  | 806.3  | 804.3  | 802.3  | 804.3  | 806.3  | 808.4  |
| 120°   | 888.9  | 888.0  | 887.6  | 886.3  | 883.7  | 881.2  | 878.6  | 876.0  | 878.6  | 881.2  | 883.7  |
| 122.5° | 961.6  | 960.5  | 959.9  | 958.9  | 956.9  | 954.9  | 952.9  | 950.9  | 952.9  | 954.9  | 956.9  |
| 125°   | 1030.1 | 1029.0 | 1028.4 | 1027.3 | 1025.0 | 1022.7 | 1020.4 | 1018.1 | 1020.4 | 1022.7 | 1025.0 |
| 127.5° | 1097.8 | 1096.3 | 1095.6 | 1094.5 | 1092.2 | 1089.9 | 1087.6 | 1085.3 | 1087.6 | 1089.9 | 1092.2 |
| 130°   | 1159.3 | 1158.2 | 1157.6 | 1156.5 | 1154.2 | 1151.9 | 1149.6 | 1147.3 | 1149.6 | 1151.9 | 1154.2 |
| 132.5° | 1218.4 | 1217.5 | 1217.1 | 1215.9 | 1213.6 | 1211.3 | 1209.0 | 1206.7 | 1209.0 | 1211.3 | 1213.6 |
| 135°   | 1276.9 | 1275.8 | 1275.2 | 1274.3 | 1272.6 | 1270.9 | 1269.1 | 1267.4 | 1269.1 | 1270.9 | 1272.6 |
| 137.5° | 1330.3 | 1329.8 | 1329.5 | 1328.3 | 1326.0 | 1323.7 | 1321.4 | 1319.1 | 1321.4 | 1323.7 | 1326.0 |
| 140°   | 1379.8 | 1378.9 | 1378.5 | 1377.6 | 1375.9 | 1374.2 | 1372.5 | 1370.8 | 1372.5 | 1374.2 | 1375.9 |
| 142.5° | 1427.7 | 1426.8 | 1426.4 | 1425.5 | 1423.8 | 1422.1 | 1420.3 | 1418.6 | 1420.3 | 1422.1 | 1423.8 |
| 145°   | 1472.5 | 1471.9 | 1471.6 | 1470.6 | 1468.6 | 1466.5 | 1464.5 | 1462.5 | 1464.5 | 1466.5 | 1468.6 |
| 147.5° | 1512.5 | 1511.9 | 1511.6 | 1510.9 | 1509.5 | 1508.0 | 1506.6 | 1505.2 | 1506.6 | 1508.0 | 1509.5 |
| 150°   | 1548.7 | 1548.1 | 1547.8 | 1547.4 | 1546.5 | 1545.6 | 1544.8 | 1543.9 | 1544.8 | 1545.6 | 1546.5 |
| 152.5° | 1580.5 | 1580.2 | 1580.1 | 1580.0 | 1579.7 | 1579.4 | 1579.1 | 1578.8 | 1579.1 | 1579.4 | 1579.7 |
| 155°   | 1608.9 | 1608.6 | 1608.5 | 1608.8 | 1609.4 | 1609.9 | 1610.5 | 1611.1 | 1610.5 | 1609.9 | 1609.4 |
| 157.5° | 1636.5 | 1636.8 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 | 1636.9 |
| 160°   | 1658.5 | 1658.8 | 1658.9 | 1659.0 | 1659.3 | 1659.6 | 1659.9 | 1660.2 | 1659.9 | 1659.6 | 1659.3 |
| 162.5° | 1677.9 | 1678.2 | 1678.3 | 1678.7 | 1679.6 | 1680.5 | 1681.3 | 1682.2 | 1681.3 | 1680.5 | 1679.6 |
| 165°   | 1694.7 | 1695.0 | 1695.1 | 1695.5 | 1696.4 | 1697.3 | 1698.1 | 1699.0 | 1698.1 | 1697.3 | 1696.4 |
| 167.5° | 1708.0 | 1708.0 | 1708.0 | 1708.6 | 1709.7 | 1710.9 | 1712.0 | 1713.2 | 1712.0 | 1710.9 | 1709.7 |
| 170°   | 1719.6 | 1719.6 | 1719.6 | 1720.2 | 1721.3 | 1722.5 | 1723.6 | 1724.8 | 1723.6 | 1722.5 | 1721.3 |
| 172.5° | 1726.5 | 1726.2 | 1726.1 | 1726.8 | 1728.3 | 1729.7 | 1731.2 | 1732.6 | 1731.2 | 1729.7 | 1728.3 |
| 175°   | 1733.0 | 1732.7 | 1732.6 | 1733.3 | 1734.7 | 1736.2 | 1737.6 | 1739.0 | 1737.6 | 1736.2 | 1734.7 |
| 177.5° | 1735.5 | 1735.2 | 1735.1 | 1735.8 | 1737.3 | 1738.7 | 1740.2 | 1741.6 | 1740.2 | 1738.7 | 1737.3 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1824.4 | 1816.5 | 1813.3 | 1805.4 | 1786.4 | 1773.8 | 1759.5 | 1750.0 | 1751.6 | 1743.7 | 1748.5 |
| 5°     | 1767.5 | 1765.9 | 1754.8 | 1739.0 | 1712.1 | 1697.8 | 1672.5 | 1659.9 | 1653.5 | 1655.1 | 1645.6 |
| 7.5°   | 1720.0 | 1705.7 | 1697.8 | 1672.5 | 1647.2 | 1617.1 | 1596.6 | 1585.5 | 1576.0 | 1566.5 | 1560.2 |
| 10°    | 1666.2 | 1653.5 | 1640.9 | 1614.0 | 1579.2 | 1550.7 | 1522.2 | 1511.1 | 1496.9 | 1490.5 | 1485.8 |
| 12.5°  | 1609.2 | 1601.3 | 1585.5 | 1553.8 | 1514.3 | 1487.4 | 1454.2 | 1447.8 | 1428.8 | 1416.2 | 1413.0 |
| 15°    | 1557.0 | 1552.3 | 1523.8 | 1487.4 | 1447.8 | 1420.9 | 1392.4 | 1373.5 | 1341.8 | 1348.1 | 1337.1 |
| 17.5°  | 1501.6 | 1481.1 | 1463.6 | 1414.6 | 1395.6 | 1354.5 | 1321.2 | 1311.7 | 1289.6 | 1275.4 | 1261.1 |
| 20°    | 1439.9 | 1427.3 | 1405.1 | 1373.5 | 1327.6 | 1280.1 | 1254.8 | 1239.0 | 1226.3 | 1204.1 | 1197.8 |
| 22.5°  | 1381.4 | 1365.5 | 1346.6 | 1305.4 | 1265.9 | 1226.3 | 1191.5 | 1177.2 | 1161.4 | 1145.6 | 1136.1 |
| 25°    | 1335.5 | 1311.7 | 1291.2 | 1240.5 | 1201.0 | 1167.8 | 1145.6 | 1121.9 | 1099.7 | 1090.2 | 1087.1 |
| 27.5°  | 1264.3 | 1250.0 | 1229.5 | 1182.0 | 1145.6 | 1109.2 | 1088.6 | 1072.8 | 1049.1 | 1038.0 | 1028.5 |
| 30°    | 1218.4 | 1189.9 | 1166.2 | 1128.2 | 1091.8 | 1052.2 | 1033.3 | 1014.3 | 1000.0 | 985.8  | 974.7  |
| 32.5°  | 1156.7 | 1134.5 | 1115.5 | 1077.6 | 1041.2 | 1004.8 | 984.2  | 955.7  | 947.8  | 936.7  | 924.1  |
| 35°    | 1096.5 | 1082.3 | 1061.7 | 1020.6 | 981.0  | 955.7  | 933.6  | 906.7  | 897.2  | 889.3  | 878.2  |
| 37.5°  | 1039.6 | 1019.0 | 1004.8 | 965.2  | 930.4  | 900.3  | 882.9  | 860.8  | 854.5  | 845.0  | 837.0  |
| 40°    | 990.5  | 970.0  | 955.7  | 916.2  | 879.8  | 848.1  | 837.0  | 814.9  | 805.4  | 794.3  | 789.6  |
| 42.5°  | 935.2  | 917.7  | 898.8  | 870.3  | 832.3  | 800.7  | 778.5  | 765.8  | 753.2  | 748.4  | 738.9  |
| 45°    | 876.6  | 860.8  | 846.5  | 814.9  | 775.3  | 753.2  | 734.2  | 716.8  | 707.3  | 699.4  | 693.1  |
| 47.5°  | 826.0  | 811.7  | 792.7  | 757.9  | 726.3  | 705.7  | 686.7  | 669.3  | 659.8  | 650.3  | 642.4  |
| 50°    | 767.4  | 759.5  | 738.9  | 705.7  | 675.7  | 651.9  | 634.5  | 618.7  | 612.4  | 601.3  | 588.6  |
| 52.5°  | 715.2  | 701.0  | 683.6  | 656.7  | 629.8  | 601.3  | 577.5  | 568.1  | 557.0  | 550.6  | 539.6  |
| 55°    | 653.5  | 644.0  | 625.0  | 601.3  | 572.8  | 549.1  | 531.7  | 519.0  | 504.8  | 498.4  | 484.2  |
| 57.5°  | 601.3  | 583.9  | 574.4  | 544.3  | 517.4  | 493.7  | 481.0  | 468.4  | 452.5  | 443.1  | 436.7  |
| 60°    | 544.3  | 528.5  | 514.3  | 488.9  | 469.9  | 444.6  | 425.6  | 414.6  | 403.5  | 390.8  | 384.5  |
| 62.5°  | 488.9  | 476.3  | 458.9  | 438.3  | 414.6  | 394.0  | 379.8  | 363.9  | 357.6  | 344.9  | 340.2  |
| 65°    | 428.8  | 419.3  | 405.1  | 381.3  | 362.4  | 344.9  | 330.7  | 318.0  | 311.7  | 307.0  | 303.8  |
| 67.5°  | 375.0  | 362.4  | 352.9  | 332.3  | 311.7  | 297.5  | 289.6  | 281.7  | 273.7  | 269.0  | 264.2  |
| 70°    | 319.6  | 310.1  | 300.6  | 281.7  | 267.4  | 254.8  | 248.4  | 242.1  | 237.3  | 232.6  | 227.9  |
| 72.5°  | 262.7  | 257.9  | 248.4  | 235.8  | 224.7  | 215.2  | 210.4  | 202.5  | 197.8  | 189.9  | 186.7  |
| 75°    | 216.8  | 208.9  | 204.1  | 193.0  | 183.5  | 175.6  | 169.3  | 159.8  | 153.5  | 150.3  | 148.7  |
| 77.5°  | 170.9  | 167.7  | 161.4  | 151.9  | 147.2  | 139.2  | 129.8  | 126.6  | 123.4  | 123.4  | 121.8  |
| 80°    | 128.2  | 123.4  | 118.7  | 110.8  | 106.0  | 99.7   | 99.7   | 99.7   | 98.1   | 99.7   | 98.1   |
| 82.5°  | 87.0   | 83.9   | 80.7   | 76.0   | 74.4   | 74.4   | 76.0   | 76.0   | 76.0   | 76.0   | 76.0   |
| 85°    | 50.6   | 50.6   | 50.6   | 52.2   | 50.6   | 50.6   | 52.2   | 53.8   | 52.2   | 52.2   | 50.6   |
| 87.5°  | 23.7   | 23.7   | 25.3   | 25.3   | 26.9   | 26.9   | 26.9   | 26.9   | 26.9   | 26.9   | 28.5   |
| 90°    | 12.8   | 14.2   | 16.1   | 19.8   | 23.5   | 27.3   | 31.0   | 32.2   | 33.3   | 34.5   | 35.6   |
| 92.5°  | 22.9   | 22.0   | 23.3   | 25.9   | 28.4   | 31.0   | 33.6   | 35.6   | 37.6   | 39.6   | 41.6   |
| 95°    | 31.7   | 25.8   | 27.4   | 30.6   | 33.7   | 36.9   | 40.1   | 42.1   | 44.1   | 46.1   | 48.1   |
| 97.5°  | 111.2  | 107.2  | 99.9   | 85.2   | 70.6   | 55.9   | 41.3   | 43.6   | 45.9   | 48.2   | 50.5   |
| 100°   | 241.3  | 244.2  | 221.8  | 177.0  | 132.2  | 87.4   | 42.6   | 44.9   | 47.2   | 49.5   | 51.8   |
| 102.5° | 318.5  | 320.4  | 295.4  | 245.5  | 195.5  | 145.6  | 95.6   | 86.1   | 76.7   | 67.2   | 57.7   |
| 105°   | 397.6  | 399.2  | 386.3  | 360.4  | 334.6  | 308.7  | 282.9  | 232.1  | 181.3  | 130.5  | 79.7   |
| 107.5° | 481.9  | 483.2  | 485.4  | 489.7  | 494.0  | 498.3  | 502.6  | 458.4  | 414.2  | 369.9  | 325.7  |
| 110°   | 567.3  | 568.5  | 570.1  | 573.2  | 576.4  | 579.5  | 582.7  | 573.2  | 563.7  | 554.2  | 544.7  |

TEST NUMBER: P1031077

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 648.9  | 649.9  | 651.5  | 654.6  | 657.8  | 660.9  | 664.1  | 666.7  | 669.3  | 671.8  | 674.4  |
| 115°   | 729.1  | 730.0  | 731.3  | 733.9  | 736.4  | 739.0  | 741.6  | 744.5  | 747.3  | 750.2  | 753.1  |
| 117.5° | 810.4  | 811.4  | 812.1  | 813.5  | 815.0  | 816.4  | 817.8  | 820.1  | 822.4  | 824.7  | 827.0  |
| 120°   | 886.3  | 887.6  | 888.0  | 888.9  | 889.8  | 890.6  | 891.5  | 893.8  | 896.1  | 898.4  | 900.7  |
| 122.5° | 958.9  | 959.9  | 960.5  | 961.6  | 962.8  | 963.9  | 965.1  | 966.5  | 968.0  | 969.4  | 970.9  |
| 125°   | 1027.3 | 1028.4 | 1029.0 | 1030.1 | 1031.3 | 1032.4 | 1033.6 | 1034.2 | 1034.8 | 1035.3 | 1035.9 |
| 127.5° | 1094.5 | 1095.6 | 1096.3 | 1097.8 | 1099.2 | 1100.7 | 1102.1 | 1102.9 | 1103.8 | 1104.6 | 1105.5 |
| 130°   | 1156.5 | 1157.6 | 1158.2 | 1159.3 | 1160.5 | 1161.6 | 1162.8 | 1164.0 | 1165.1 | 1166.3 | 1167.4 |
| 132.5° | 1215.9 | 1217.1 | 1217.5 | 1218.4 | 1219.2 | 1220.1 | 1220.9 | 1222.1 | 1223.2 | 1224.4 | 1225.5 |
| 135°   | 1274.3 | 1275.2 | 1275.8 | 1276.9 | 1278.1 | 1279.2 | 1280.4 | 1281.2 | 1282.1 | 1282.9 | 1283.8 |
| 137.5° | 1328.3 | 1329.5 | 1329.8 | 1330.3 | 1330.9 | 1331.4 | 1332.0 | 1333.4 | 1334.9 | 1336.3 | 1337.8 |
| 140°   | 1377.6 | 1378.5 | 1378.9 | 1379.8 | 1380.7 | 1381.5 | 1382.4 | 1383.6 | 1384.7 | 1385.9 | 1387.0 |
| 142.5° | 1425.5 | 1426.4 | 1426.8 | 1427.7 | 1428.5 | 1429.4 | 1430.2 | 1431.1 | 1431.9 | 1432.8 | 1433.7 |
| 145°   | 1470.6 | 1471.6 | 1471.9 | 1472.5 | 1473.0 | 1473.6 | 1474.2 | 1474.8 | 1475.3 | 1475.9 | 1476.4 |
| 147.5° | 1510.9 | 1511.6 | 1511.9 | 1512.5 | 1513.0 | 1513.6 | 1514.2 | 1514.8 | 1515.4 | 1515.9 | 1516.5 |
| 150°   | 1547.4 | 1547.8 | 1548.1 | 1548.7 | 1549.2 | 1549.8 | 1550.4 | 1551.0 | 1551.6 | 1552.1 | 1552.7 |
| 152.5° | 1580.0 | 1580.1 | 1580.2 | 1580.5 | 1580.8 | 1581.1 | 1581.4 | 1582.6 | 1583.7 | 1584.9 | 1586.0 |
| 155°   | 1608.8 | 1608.5 | 1608.6 | 1608.9 | 1609.2 | 1609.5 | 1609.8 | 1611.2 | 1612.7 | 1614.1 | 1615.6 |
| 157.5° | 1636.9 | 1636.9 | 1636.8 | 1636.5 | 1636.2 | 1636.0 | 1635.7 | 1637.4 | 1639.1 | 1640.8 | 1642.5 |
| 160°   | 1659.0 | 1658.9 | 1658.8 | 1658.5 | 1658.2 | 1657.9 | 1657.6 | 1659.3 | 1661.1 | 1662.8 | 1664.5 |
| 162.5° | 1678.7 | 1678.3 | 1678.2 | 1677.9 | 1677.6 | 1677.3 | 1677.0 | 1679.0 | 1681.0 | 1683.0 | 1685.0 |
| 165°   | 1695.5 | 1695.1 | 1695.0 | 1694.7 | 1694.4 | 1694.1 | 1693.8 | 1696.1 | 1698.4 | 1700.7 | 1703.0 |
| 167.5° | 1708.6 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1710.3 | 1712.6 | 1714.9 | 1717.2 |
| 170°   | 1720.2 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1721.9 | 1724.2 | 1726.5 | 1728.8 |
| 172.5° | 1726.8 | 1726.1 | 1726.2 | 1726.5 | 1726.8 | 1727.1 | 1727.4 | 1729.7 | 1732.0 | 1734.3 | 1736.6 |
| 175°   | 1733.3 | 1732.6 | 1732.7 | 1733.0 | 1733.3 | 1733.5 | 1733.8 | 1735.8 | 1737.8 | 1739.9 | 1741.9 |
| 177.5° | 1735.8 | 1735.1 | 1735.2 | 1735.5 | 1735.8 | 1736.1 | 1736.4 | 1738.7 | 1741.0 | 1743.3 | 1745.6 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

TEST NUMBER: P1031077

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1746.9 | 1748.5 | 1743.7 | 1734.2 | 1732.6 | 1735.8 | 1745.3 | 1742.1 | 1734.2 | 1748.5 | 1735.8 |
| 5°     | 1650.4 | 1642.4 | 1639.3 | 1642.4 | 1633.0 | 1628.2 | 1637.7 | 1633.0 | 1637.7 | 1639.3 | 1644.0 |
| 7.5°   | 1557.0 | 1558.6 | 1549.1 | 1550.7 | 1538.0 | 1541.2 | 1541.2 | 1541.2 | 1545.9 | 1549.1 | 1555.4 |
| 10°    | 1476.3 | 1479.5 | 1468.4 | 1470.0 | 1460.5 | 1454.2 | 1458.9 | 1468.4 | 1468.4 | 1468.4 | 1471.6 |
| 12.5°  | 1411.4 | 1397.2 | 1389.3 | 1387.7 | 1376.6 | 1373.5 | 1382.9 | 1386.1 | 1394.0 | 1394.0 | 1398.8 |
| 15°    | 1330.7 | 1327.6 | 1321.2 | 1321.2 | 1294.3 | 1300.7 | 1303.8 | 1314.9 | 1330.7 | 1318.1 | 1321.2 |
| 17.5°  | 1257.9 | 1250.0 | 1242.1 | 1239.0 | 1235.8 | 1226.3 | 1239.0 | 1237.4 | 1246.9 | 1248.5 | 1253.2 |
| 20°    | 1193.1 | 1186.7 | 1170.9 | 1172.5 | 1175.7 | 1161.4 | 1169.3 | 1169.3 | 1178.8 | 1188.3 | 1199.4 |
| 22.5°  | 1129.8 | 1123.4 | 1115.5 | 1118.7 | 1109.2 | 1106.0 | 1106.0 | 1114.0 | 1125.0 | 1132.9 | 1131.4 |
| 25°    | 1080.7 | 1069.6 | 1064.9 | 1060.2 | 1055.4 | 1058.6 | 1053.8 | 1061.7 | 1069.6 | 1074.4 | 1069.6 |
| 27.5°  | 1025.3 | 1020.6 | 1011.1 | 1006.4 | 998.4  | 1001.6 | 1004.8 | 1011.1 | 1015.9 | 1015.9 | 1020.6 |
| 30°    | 971.5  | 965.2  | 962.1  | 957.3  | 957.3  | 951.0  | 952.6  | 958.9  | 963.6  | 968.4  | 974.7  |
| 32.5°  | 919.3  | 914.6  | 909.8  | 909.8  | 906.7  | 905.1  | 903.5  | 913.0  | 913.0  | 922.5  | 922.5  |
| 35°    | 876.6  | 868.7  | 868.7  | 860.8  | 863.9  | 862.4  | 859.2  | 865.5  | 867.1  | 873.4  | 871.9  |
| 37.5°  | 829.1  | 829.1  | 826.0  | 818.1  | 811.7  | 813.3  | 821.2  | 821.2  | 826.0  | 824.4  | 829.1  |
| 40°    | 781.7  | 778.5  | 778.5  | 773.8  | 772.2  | 770.6  | 772.2  | 773.8  | 781.7  | 780.1  | 781.7  |
| 42.5°  | 734.2  | 735.8  | 727.9  | 727.9  | 727.9  | 723.1  | 724.7  | 726.3  | 729.5  | 732.6  | 737.4  |
| 45°    | 688.3  | 685.1  | 683.6  | 680.4  | 677.2  | 678.8  | 677.2  | 683.6  | 682.0  | 685.1  | 689.9  |
| 47.5°  | 639.3  | 634.5  | 632.9  | 626.6  | 626.6  | 629.8  | 628.2  | 632.9  | 634.5  | 639.3  | 636.1  |
| 50°    | 591.8  | 585.5  | 580.7  | 582.3  | 572.8  | 576.0  | 576.0  | 580.7  | 585.5  | 587.0  | 590.2  |
| 52.5°  | 536.4  | 534.8  | 533.2  | 525.3  | 523.7  | 522.2  | 523.7  | 525.3  | 531.7  | 536.4  | 538.0  |
| 55°    | 482.6  | 481.0  | 471.5  | 468.4  | 463.6  | 463.6  | 466.8  | 468.4  | 479.4  | 481.0  | 487.4  |
| 57.5°  | 433.6  | 428.8  | 417.7  | 416.2  | 416.2  | 416.2  | 411.4  | 417.7  | 420.9  | 428.8  | 428.8  |
| 60°    | 379.8  | 379.8  | 370.3  | 370.3  | 371.8  | 370.3  | 370.3  | 371.8  | 371.8  | 378.2  | 381.3  |
| 62.5°  | 337.0  | 335.5  | 335.5  | 332.3  | 330.7  | 332.3  | 330.7  | 330.7  | 332.3  | 337.0  | 341.8  |
| 65°    | 299.1  | 297.5  | 295.9  | 294.3  | 291.1  | 291.1  | 292.7  | 295.9  | 295.9  | 299.1  | 300.6  |
| 67.5°  | 262.7  | 262.7  | 259.5  | 259.5  | 257.9  | 256.3  | 257.9  | 256.3  | 262.7  | 262.7  | 264.2  |
| 70°    | 226.3  | 224.7  | 219.9  | 218.4  | 213.6  | 215.2  | 215.2  | 219.9  | 221.5  | 224.7  | 227.9  |
| 72.5°  | 182.0  | 182.0  | 178.8  | 175.6  | 177.2  | 174.1  | 174.1  | 175.6  | 175.6  | 180.4  | 182.0  |
| 75°    | 150.3  | 147.2  | 145.6  | 147.2  | 145.6  | 148.7  | 145.6  | 145.6  | 148.7  | 148.7  | 148.7  |
| 77.5°  | 123.4  | 123.4  | 121.8  | 121.8  | 123.4  | 121.8  | 123.4  | 123.4  | 123.4  | 121.8  | 123.4  |
| 80°    | 101.3  | 99.7   | 99.7   | 99.7   | 98.1   | 98.1   | 98.1   | 98.1   | 98.1   | 98.1   | 98.1   |
| 82.5°  | 76.0   | 76.0   | 74.4   | 76.0   | 76.0   | 74.4   | 76.0   | 74.4   | 74.4   | 76.0   | 76.0   |
| 85°    | 50.6   | 53.8   | 50.6   | 50.6   | 52.2   | 52.2   | 53.8   | 52.2   | 53.8   | 50.6   | 52.2   |
| 87.5°  | 26.9   | 28.5   | 28.5   | 26.9   | 26.9   | 28.5   | 28.5   | 28.5   | 30.1   | 26.9   | 28.5   |
| 90°    | 36.2   | 36.5   | 37.1   | 37.6   | 38.2   | 38.8   | 38.2   | 37.6   | 37.1   | 36.5   | 36.2   |
| 92.5°  | 42.6   | 42.7   | 43.0   | 43.3   | 43.6   | 43.9   | 43.6   | 43.3   | 43.0   | 42.7   | 42.6   |
| 95°    | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   |
| 97.5°  | 51.7   | 51.8   | 52.1   | 52.4   | 52.7   | 53.0   | 52.7   | 52.4   | 52.1   | 51.8   | 51.7   |
| 100°   | 53.0   | 53.1   | 53.4   | 53.7   | 54.0   | 54.3   | 54.0   | 53.7   | 53.4   | 53.1   | 53.0   |
| 102.5° | 53.0   | 53.3   | 53.9   | 54.4   | 55.0   | 55.6   | 55.0   | 54.4   | 53.9   | 53.3   | 53.0   |
| 105°   | 54.3   | 54.6   | 55.1   | 55.7   | 56.2   | 56.8   | 56.2   | 55.7   | 55.1   | 54.6   | 54.3   |
| 107.5° | 303.6  | 284.8  | 247.2  | 209.6  | 172.0  | 134.4  | 172.0  | 209.6  | 247.2  | 284.8  | 303.6  |
| 110°   | 540.0  | 519.5  | 478.4  | 437.4  | 396.3  | 355.3  | 396.3  | 437.4  | 478.4  | 519.5  | 540.0  |

TEST NUMBER: P1031077

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 675.7  | 675.4  | 674.8  | 674.3  | 673.7  | 673.1  | 673.7  | 674.3  | 674.8  | 675.4  | 675.7  |
| 115°   | 754.5  | 755.1  | 756.2  | 757.4  | 758.5  | 759.7  | 758.5  | 757.4  | 756.2  | 755.1  | 754.5  |
| 117.5° | 828.2  | 828.3  | 828.6  | 828.9  | 829.2  | 829.5  | 829.2  | 828.9  | 828.6  | 828.3  | 828.2  |
| 120°   | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  | 901.8  |
| 122.5° | 971.6  | 971.7  | 972.0  | 972.3  | 972.6  | 972.9  | 972.6  | 972.3  | 972.0  | 971.7  | 971.6  |
| 125°   | 1036.2 | 1036.5 | 1037.1 | 1037.6 | 1038.2 | 1038.8 | 1038.2 | 1037.6 | 1037.1 | 1036.5 | 1036.2 |
| 127.5° | 1105.9 | 1105.6 | 1105.1 | 1104.5 | 1104.0 | 1103.4 | 1104.0 | 1104.5 | 1105.1 | 1105.6 | 1105.9 |
| 130°   | 1168.0 | 1167.7 | 1167.1 | 1166.6 | 1166.0 | 1165.4 | 1166.0 | 1166.6 | 1167.1 | 1167.7 | 1168.0 |
| 132.5° | 1226.1 | 1225.7 | 1224.8 | 1223.9 | 1223.1 | 1222.2 | 1223.1 | 1223.9 | 1224.8 | 1225.7 | 1226.1 |
| 135°   | 1284.2 | 1283.8 | 1282.9 | 1282.1 | 1281.2 | 1280.4 | 1281.2 | 1282.1 | 1282.9 | 1283.8 | 1284.2 |
| 137.5° | 1338.5 | 1338.2 | 1337.6 | 1337.1 | 1336.5 | 1335.9 | 1336.5 | 1337.1 | 1337.6 | 1338.2 | 1338.5 |
| 140°   | 1387.6 | 1387.3 | 1386.7 | 1386.2 | 1385.6 | 1385.0 | 1385.6 | 1386.2 | 1386.7 | 1387.3 | 1387.6 |
| 142.5° | 1434.1 | 1433.7 | 1432.8 | 1431.9 | 1431.1 | 1430.2 | 1431.1 | 1431.9 | 1432.8 | 1433.7 | 1434.1 |
| 145°   | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 | 1476.7 |
| 147.5° | 1516.8 | 1516.1 | 1514.6 | 1513.2 | 1511.7 | 1510.3 | 1511.7 | 1513.2 | 1514.6 | 1516.1 | 1516.8 |
| 150°   | 1553.0 | 1552.6 | 1551.7 | 1550.8 | 1550.0 | 1549.1 | 1550.0 | 1550.8 | 1551.7 | 1552.6 | 1553.0 |
| 152.5° | 1586.6 | 1585.9 | 1584.4 | 1583.0 | 1581.5 | 1580.1 | 1581.5 | 1583.0 | 1584.4 | 1585.9 | 1586.6 |
| 155°   | 1616.3 | 1615.4 | 1613.7 | 1612.0 | 1610.2 | 1608.5 | 1610.2 | 1612.0 | 1613.7 | 1615.4 | 1616.3 |
| 157.5° | 1643.4 | 1642.3 | 1640.0 | 1637.7 | 1635.4 | 1633.1 | 1635.4 | 1637.7 | 1640.0 | 1642.3 | 1643.4 |
| 160°   | 1665.4 | 1664.4 | 1662.4 | 1660.3 | 1658.3 | 1656.3 | 1658.3 | 1660.3 | 1662.4 | 1664.4 | 1665.4 |
| 162.5° | 1686.0 | 1685.1 | 1683.4 | 1681.7 | 1680.0 | 1678.3 | 1680.0 | 1681.7 | 1683.4 | 1685.1 | 1686.0 |
| 165°   | 1704.1 | 1703.1 | 1701.1 | 1699.1 | 1697.1 | 1695.1 | 1697.1 | 1699.1 | 1701.1 | 1703.1 | 1704.1 |
| 167.5° | 1718.3 | 1717.2 | 1714.9 | 1712.6 | 1710.3 | 1708.0 | 1710.3 | 1712.6 | 1714.9 | 1717.2 | 1718.3 |
| 170°   | 1730.0 | 1728.8 | 1726.5 | 1724.2 | 1721.9 | 1719.6 | 1721.9 | 1724.2 | 1726.5 | 1728.8 | 1730.0 |
| 172.5° | 1737.7 | 1736.4 | 1733.8 | 1731.3 | 1728.7 | 1726.1 | 1728.7 | 1731.3 | 1733.8 | 1736.4 | 1737.7 |
| 175°   | 1742.9 | 1741.8 | 1739.5 | 1737.2 | 1734.9 | 1732.6 | 1734.9 | 1737.2 | 1739.5 | 1741.8 | 1742.9 |
| 177.5° | 1746.8 | 1745.4 | 1742.5 | 1739.6 | 1736.7 | 1733.8 | 1736.7 | 1739.6 | 1742.5 | 1745.4 | 1746.8 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

TEST NUMBER: P1031077

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1748.5 | 1754.8 | 1748.5 | 1735.8 | 1748.5 | 1756.4 | 1764.3 | 1776.9 | 1783.3 | 1783.3 | 1792.8 |
| 5°     | 1648.8 | 1661.4 | 1656.7 | 1653.5 | 1666.2 | 1674.1 | 1686.8 | 1702.6 | 1720.0 | 1731.1 | 1743.7 |
| 7.5°   | 1560.2 | 1568.1 | 1576.0 | 1576.0 | 1588.7 | 1606.1 | 1625.0 | 1644.0 | 1666.2 | 1682.0 | 1691.5 |
| 10°    | 1482.6 | 1489.0 | 1493.7 | 1500.0 | 1519.0 | 1538.0 | 1563.3 | 1587.1 | 1606.1 | 1623.5 | 1639.3 |
| 12.5°  | 1408.3 | 1417.8 | 1428.8 | 1433.6 | 1447.8 | 1471.6 | 1495.3 | 1523.8 | 1553.8 | 1571.2 | 1587.1 |
| 15°    | 1337.1 | 1341.8 | 1354.5 | 1368.7 | 1381.4 | 1406.7 | 1436.7 | 1466.8 | 1492.1 | 1519.0 | 1533.3 |
| 17.5°  | 1264.3 | 1265.9 | 1299.1 | 1291.2 | 1332.3 | 1356.0 | 1371.9 | 1400.4 | 1441.5 | 1463.6 | 1485.8 |
| 20°    | 1193.1 | 1208.9 | 1223.1 | 1231.0 | 1253.2 | 1280.1 | 1326.0 | 1348.1 | 1381.4 | 1401.9 | 1420.9 |
| 22.5°  | 1137.7 | 1161.4 | 1161.4 | 1180.4 | 1191.5 | 1216.8 | 1250.0 | 1292.8 | 1329.2 | 1343.4 | 1370.3 |
| 25°    | 1088.6 | 1099.7 | 1118.7 | 1125.0 | 1145.6 | 1167.8 | 1189.9 | 1235.8 | 1275.4 | 1294.3 | 1313.3 |
| 27.5°  | 1025.3 | 1039.6 | 1064.9 | 1064.9 | 1091.8 | 1115.5 | 1142.4 | 1172.5 | 1212.1 | 1239.0 | 1259.5 |
| 30°    | 976.3  | 990.5  | 1001.6 | 1019.0 | 1030.1 | 1052.2 | 1099.7 | 1121.9 | 1156.7 | 1180.4 | 1205.7 |
| 32.5°  | 930.4  | 941.5  | 951.0  | 970.0  | 982.6  | 1007.9 | 1033.3 | 1072.8 | 1102.9 | 1125.0 | 1151.9 |
| 35°    | 879.8  | 890.8  | 903.5  | 917.7  | 936.7  | 960.5  | 984.2  | 1017.4 | 1047.5 | 1068.1 | 1090.2 |
| 37.5°  | 832.3  | 840.2  | 859.2  | 868.7  | 884.5  | 906.7  | 936.7  | 971.5  | 998.4  | 1014.3 | 1036.4 |
| 40°    | 786.4  | 792.7  | 807.0  | 824.4  | 835.5  | 852.9  | 884.5  | 914.6  | 947.8  | 966.8  | 984.2  |
| 42.5°  | 737.4  | 745.3  | 757.9  | 775.3  | 792.7  | 811.7  | 829.1  | 863.9  | 894.0  | 909.8  | 928.8  |
| 45°    | 694.6  | 699.4  | 708.9  | 726.3  | 743.7  | 757.9  | 784.8  | 816.5  | 845.0  | 857.6  | 878.2  |
| 47.5°  | 644.0  | 648.8  | 663.0  | 670.9  | 689.9  | 708.9  | 735.8  | 767.4  | 792.7  | 805.4  | 824.4  |
| 50°    | 591.8  | 596.5  | 606.0  | 623.4  | 636.1  | 656.7  | 680.4  | 707.3  | 738.9  | 756.3  | 767.4  |
| 52.5°  | 541.2  | 550.6  | 558.6  | 572.8  | 588.6  | 609.2  | 631.3  | 656.7  | 683.6  | 701.0  | 713.6  |
| 55°    | 490.5  | 498.4  | 507.9  | 515.8  | 534.8  | 553.8  | 579.1  | 602.9  | 626.6  | 642.4  | 656.7  |
| 57.5°  | 433.6  | 444.6  | 454.1  | 469.9  | 484.2  | 500.0  | 528.5  | 547.5  | 576.0  | 587.0  | 599.7  |
| 60°    | 384.5  | 395.6  | 403.5  | 416.2  | 428.8  | 449.4  | 468.4  | 492.1  | 515.8  | 530.1  | 545.9  |
| 62.5°  | 343.4  | 348.1  | 352.9  | 365.5  | 378.2  | 397.2  | 416.2  | 439.9  | 465.2  | 473.1  | 485.8  |
| 65°    | 302.2  | 307.0  | 314.9  | 326.0  | 335.5  | 346.5  | 367.1  | 386.1  | 409.8  | 422.5  | 427.2  |
| 67.5°  | 267.4  | 272.2  | 273.7  | 281.7  | 289.6  | 302.2  | 313.3  | 332.3  | 354.4  | 362.4  | 371.8  |
| 70°    | 227.9  | 235.8  | 237.3  | 243.7  | 246.8  | 254.8  | 267.4  | 281.7  | 299.1  | 313.3  | 321.2  |
| 72.5°  | 182.0  | 193.0  | 196.2  | 205.7  | 210.4  | 218.4  | 227.9  | 238.9  | 250.0  | 256.3  | 262.7  |
| 75°    | 148.7  | 151.9  | 153.5  | 161.4  | 169.3  | 180.4  | 185.1  | 191.5  | 201.0  | 208.9  | 215.2  |
| 77.5°  | 123.4  | 125.0  | 126.6  | 126.6  | 128.2  | 134.5  | 144.0  | 151.9  | 158.2  | 161.4  | 166.1  |
| 80°    | 99.7   | 98.1   | 98.1   | 99.7   | 99.7   | 99.7   | 102.9  | 113.9  | 117.1  | 125.0  | 123.4  |
| 82.5°  | 77.5   | 74.4   | 76.0   | 74.4   | 74.4   | 74.4   | 74.4   | 76.0   | 76.0   | 80.7   | 83.9   |
| 85°    | 50.6   | 52.2   | 50.6   | 50.6   | 49.1   | 50.6   | 49.1   | 49.1   | 47.5   | 47.5   | 45.9   |
| 87.5°  | 26.9   | 28.5   | 26.9   | 26.9   | 25.3   | 26.9   | 25.3   | 25.3   | 23.7   | 23.7   | 20.6   |
| 90°    | 35.6   | 34.5   | 33.3   | 32.2   | 31.0   | 27.3   | 23.5   | 19.8   | 16.1   | 14.2   | 12.8   |
| 92.5°  | 41.6   | 39.6   | 37.6   | 35.6   | 33.6   | 31.0   | 28.4   | 25.9   | 23.3   | 22.0   | 22.9   |
| 95°    | 48.1   | 46.1   | 44.1   | 42.1   | 40.1   | 36.9   | 33.7   | 30.6   | 27.4   | 25.8   | 31.7   |
| 97.5°  | 50.5   | 48.2   | 45.9   | 43.6   | 41.3   | 55.9   | 70.6   | 85.2   | 99.9   | 107.2  | 111.2  |
| 100°   | 51.8   | 49.5   | 47.2   | 44.9   | 42.6   | 87.4   | 132.2  | 177.0  | 221.8  | 244.2  | 241.3  |
| 102.5° | 57.7   | 67.2   | 76.7   | 86.1   | 95.6   | 145.6  | 195.5  | 245.5  | 295.4  | 320.4  | 318.5  |
| 105°   | 79.7   | 130.5  | 181.3  | 232.1  | 282.9  | 308.7  | 334.6  | 360.4  | 386.3  | 399.2  | 397.6  |
| 107.5° | 325.7  | 369.9  | 414.2  | 458.4  | 502.6  | 498.3  | 494.0  | 489.7  | 485.4  | 483.2  | 481.9  |
| 110°   | 544.7  | 554.2  | 563.7  | 573.2  | 582.7  | 579.5  | 576.4  | 573.2  | 570.1  | 568.5  | 567.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 674.4  | 671.8  | 669.3  | 666.7  | 664.1  | 660.9  | 657.8  | 654.6  | 651.5  | 649.9  | 648.9  |
| 115°   | 753.1  | 750.2  | 747.3  | 744.5  | 741.6  | 739.0  | 736.4  | 733.9  | 731.3  | 730.0  | 729.1  |
| 117.5° | 827.0  | 824.7  | 822.4  | 820.1  | 817.8  | 816.4  | 815.0  | 813.5  | 812.1  | 811.4  | 810.4  |
| 120°   | 900.7  | 898.4  | 896.1  | 893.8  | 891.5  | 890.6  | 889.8  | 888.9  | 888.0  | 887.6  | 886.3  |
| 122.5° | 970.9  | 969.4  | 968.0  | 966.5  | 965.1  | 963.9  | 962.8  | 961.6  | 960.5  | 959.9  | 958.9  |
| 125°   | 1035.9 | 1035.3 | 1034.8 | 1034.2 | 1033.6 | 1032.4 | 1031.3 | 1030.1 | 1029.0 | 1028.4 | 1027.3 |
| 127.5° | 1105.5 | 1104.6 | 1103.8 | 1102.9 | 1102.1 | 1100.7 | 1099.2 | 1097.8 | 1096.3 | 1095.6 | 1094.5 |
| 130°   | 1167.4 | 1166.3 | 1165.1 | 1164.0 | 1162.8 | 1161.6 | 1160.5 | 1159.3 | 1158.2 | 1157.6 | 1156.5 |
| 132.5° | 1225.5 | 1224.4 | 1223.2 | 1222.1 | 1220.9 | 1220.1 | 1219.2 | 1218.4 | 1217.5 | 1217.1 | 1215.9 |
| 135°   | 1283.8 | 1282.9 | 1282.1 | 1281.2 | 1280.4 | 1279.2 | 1278.1 | 1276.9 | 1275.8 | 1275.2 | 1274.3 |
| 137.5° | 1337.8 | 1336.3 | 1334.9 | 1333.4 | 1332.0 | 1331.4 | 1330.9 | 1330.3 | 1329.8 | 1329.5 | 1328.3 |
| 140°   | 1387.0 | 1385.9 | 1384.7 | 1383.6 | 1382.4 | 1381.5 | 1380.7 | 1379.8 | 1378.9 | 1378.5 | 1377.6 |
| 142.5° | 1433.7 | 1432.8 | 1431.9 | 1431.1 | 1430.2 | 1429.4 | 1428.5 | 1427.7 | 1426.8 | 1426.4 | 1425.5 |
| 145°   | 1476.4 | 1475.9 | 1475.3 | 1474.8 | 1474.2 | 1473.6 | 1473.0 | 1472.5 | 1471.9 | 1471.6 | 1470.6 |
| 147.5° | 1516.5 | 1515.9 | 1515.4 | 1514.8 | 1514.2 | 1513.6 | 1513.0 | 1512.5 | 1511.9 | 1511.6 | 1510.9 |
| 150°   | 1552.7 | 1552.1 | 1551.6 | 1551.0 | 1550.4 | 1549.8 | 1549.2 | 1548.7 | 1548.1 | 1547.8 | 1547.4 |
| 152.5° | 1586.0 | 1584.9 | 1583.7 | 1582.6 | 1581.4 | 1581.1 | 1580.8 | 1580.5 | 1580.2 | 1580.1 | 1580.0 |
| 155°   | 1615.6 | 1614.1 | 1612.7 | 1611.2 | 1609.8 | 1609.5 | 1609.2 | 1608.9 | 1608.6 | 1608.5 | 1608.8 |
| 157.5° | 1642.5 | 1640.8 | 1639.1 | 1637.4 | 1635.7 | 1636.0 | 1636.2 | 1636.5 | 1636.8 | 1636.9 | 1636.9 |
| 160°   | 1664.5 | 1662.8 | 1661.1 | 1659.3 | 1657.6 | 1657.9 | 1658.2 | 1658.5 | 1658.8 | 1658.9 | 1659.0 |
| 162.5° | 1685.0 | 1683.0 | 1681.0 | 1679.0 | 1677.0 | 1677.3 | 1677.6 | 1677.9 | 1678.2 | 1678.3 | 1678.7 |
| 165°   | 1703.0 | 1700.7 | 1698.4 | 1696.1 | 1693.8 | 1694.1 | 1694.4 | 1694.7 | 1695.0 | 1695.1 | 1695.5 |
| 167.5° | 1717.2 | 1714.9 | 1712.6 | 1710.3 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.0 | 1708.6 |
| 170°   | 1728.8 | 1726.5 | 1724.2 | 1721.9 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1719.6 | 1720.2 |
| 172.5° | 1736.6 | 1734.3 | 1732.0 | 1729.7 | 1727.4 | 1727.1 | 1726.8 | 1726.5 | 1726.2 | 1726.1 | 1726.8 |
| 175°   | 1741.9 | 1739.9 | 1737.8 | 1735.8 | 1733.8 | 1733.5 | 1733.3 | 1733.0 | 1732.7 | 1732.6 | 1733.3 |
| 177.5° | 1745.6 | 1743.3 | 1741.0 | 1738.7 | 1736.4 | 1736.1 | 1735.8 | 1735.5 | 1735.2 | 1735.1 | 1735.8 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

TEST NUMBER: P1031077

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1848.2 | 1848.2 | 1848.2 | 1848.2 |
| 2.5°   | 1800.7 | 1811.8 | 1833.9 | 1852.9 |
| 5°     | 1762.7 | 1780.1 | 1813.3 | 1846.6 |
| 7.5°   | 1716.8 | 1743.7 | 1786.4 | 1832.3 |
| 10°    | 1672.5 | 1707.3 | 1759.5 | 1813.3 |
| 12.5°  | 1628.2 | 1664.6 | 1720.0 | 1789.6 |
| 15°    | 1576.0 | 1614.0 | 1680.4 | 1764.3 |
| 17.5°  | 1530.1 | 1580.7 | 1640.9 | 1724.7 |
| 20°    | 1481.1 | 1519.0 | 1596.6 | 1685.2 |
| 22.5°  | 1419.3 | 1482.6 | 1555.4 | 1648.8 |
| 25°    | 1370.3 | 1425.7 | 1498.5 | 1604.5 |
| 27.5°  | 1310.2 | 1375.0 | 1463.6 | 1557.0 |
| 30°    | 1261.1 | 1314.9 | 1397.2 | 1509.5 |
| 32.5°  | 1204.1 | 1267.4 | 1352.9 | 1463.6 |
| 35°    | 1153.5 | 1207.3 | 1288.0 | 1400.4 |
| 37.5°  | 1093.4 | 1151.9 | 1242.1 | 1341.8 |
| 40°    | 1041.2 | 1098.1 | 1183.6 | 1276.9 |
| 42.5°  | 977.9  | 1038.0 | 1123.4 | 1202.6 |
| 45°    | 927.2  | 982.6  | 1050.7 | 1123.4 |
| 47.5°  | 865.5  | 924.1  | 990.5  | 1041.2 |
| 50°    | 810.1  | 863.9  | 916.2  | 958.9  |
| 52.5°  | 750.0  | 799.1  | 846.5  | 878.2  |
| 55°    | 694.6  | 732.6  | 770.6  | 792.7  |
| 57.5°  | 629.8  | 666.2  | 697.8  | 710.5  |
| 60°    | 572.8  | 602.9  | 623.4  | 637.7  |
| 62.5°  | 512.7  | 534.8  | 550.6  | 558.6  |
| 65°    | 454.1  | 469.9  | 477.9  | 485.8  |
| 67.5°  | 394.0  | 408.2  | 413.0  | 422.5  |
| 70°    | 330.7  | 346.5  | 349.7  | 354.4  |
| 72.5°  | 283.2  | 283.2  | 289.6  | 295.9  |
| 75°    | 226.3  | 229.4  | 232.6  | 232.6  |
| 77.5°  | 177.2  | 177.2  | 180.4  | 182.0  |
| 80°    | 129.8  | 131.3  | 131.3  | 129.8  |
| 82.5°  | 88.6   | 91.8   | 88.6   | 87.0   |
| 85°    | 49.1   | 55.4   | 52.2   | 52.2   |
| 87.5°  | 20.6   | 20.6   | 23.7   | 20.6   |
| 90°    | 9.9    | 7.0    | 4.2    | 1.3    |
| 92.5°  | 24.6   | 26.3   | 28.0   | 29.7   |
| 95°    | 43.5   | 55.2   | 67.0   | 78.8   |
| 97.5°  | 119.3  | 127.3  | 135.4  | 143.4  |
| 100°   | 235.6  | 229.8  | 224.1  | 218.3  |
| 102.5° | 314.8  | 311.1  | 307.3  | 303.6  |
| 105°   | 394.5  | 391.3  | 388.2  | 385.0  |
| 107.5° | 479.3  | 476.8  | 474.2  | 471.6  |
| 110°   | 565.0  | 562.7  | 560.4  | 558.1  |

TEST NUMBER: P1031077

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 646.9  | 644.8  | 642.8  | 640.8  |
| 115°   | 727.4  | 725.7  | 723.9  | 722.2  |
| 117.5° | 808.4  | 806.3  | 804.3  | 802.3  |
| 120°   | 883.7  | 881.2  | 878.6  | 876.0  |
| 122.5° | 956.9  | 954.9  | 952.9  | 950.9  |
| 125°   | 1025.0 | 1022.7 | 1020.4 | 1018.1 |
| 127.5° | 1092.2 | 1089.9 | 1087.6 | 1085.3 |
| 130°   | 1154.2 | 1151.9 | 1149.6 | 1147.3 |
| 132.5° | 1213.6 | 1211.3 | 1209.0 | 1206.7 |
| 135°   | 1272.6 | 1270.9 | 1269.1 | 1267.4 |
| 137.5° | 1326.0 | 1323.7 | 1321.4 | 1319.1 |
| 140°   | 1375.9 | 1374.2 | 1372.5 | 1370.8 |
| 142.5° | 1423.8 | 1422.1 | 1420.3 | 1418.6 |
| 145°   | 1468.6 | 1466.5 | 1464.5 | 1462.5 |
| 147.5° | 1509.5 | 1508.0 | 1506.6 | 1505.2 |
| 150°   | 1546.5 | 1545.6 | 1544.8 | 1543.9 |
| 152.5° | 1579.7 | 1579.4 | 1579.1 | 1578.8 |
| 155°   | 1609.4 | 1609.9 | 1610.5 | 1611.1 |
| 157.5° | 1636.9 | 1636.9 | 1636.9 | 1636.9 |
| 160°   | 1659.3 | 1659.6 | 1659.9 | 1660.2 |
| 162.5° | 1679.6 | 1680.5 | 1681.3 | 1682.2 |
| 165°   | 1696.4 | 1697.3 | 1698.1 | 1699.0 |
| 167.5° | 1709.7 | 1710.9 | 1712.0 | 1713.2 |
| 170°   | 1721.3 | 1722.5 | 1723.6 | 1724.8 |
| 172.5° | 1728.3 | 1729.7 | 1731.2 | 1732.6 |
| 175°   | 1734.7 | 1736.2 | 1737.6 | 1739.0 |
| 177.5° | 1737.3 | 1738.7 | 1740.2 | 1741.6 |
| 180°   | 1739.0 | 1739.0 | 1739.0 | 1739.0 |

(END OF REPORT)