

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: P1010819

Luminaire Tested: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010819  
REPORT IS A COMBINATION OF REPORTS P992925 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K  
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

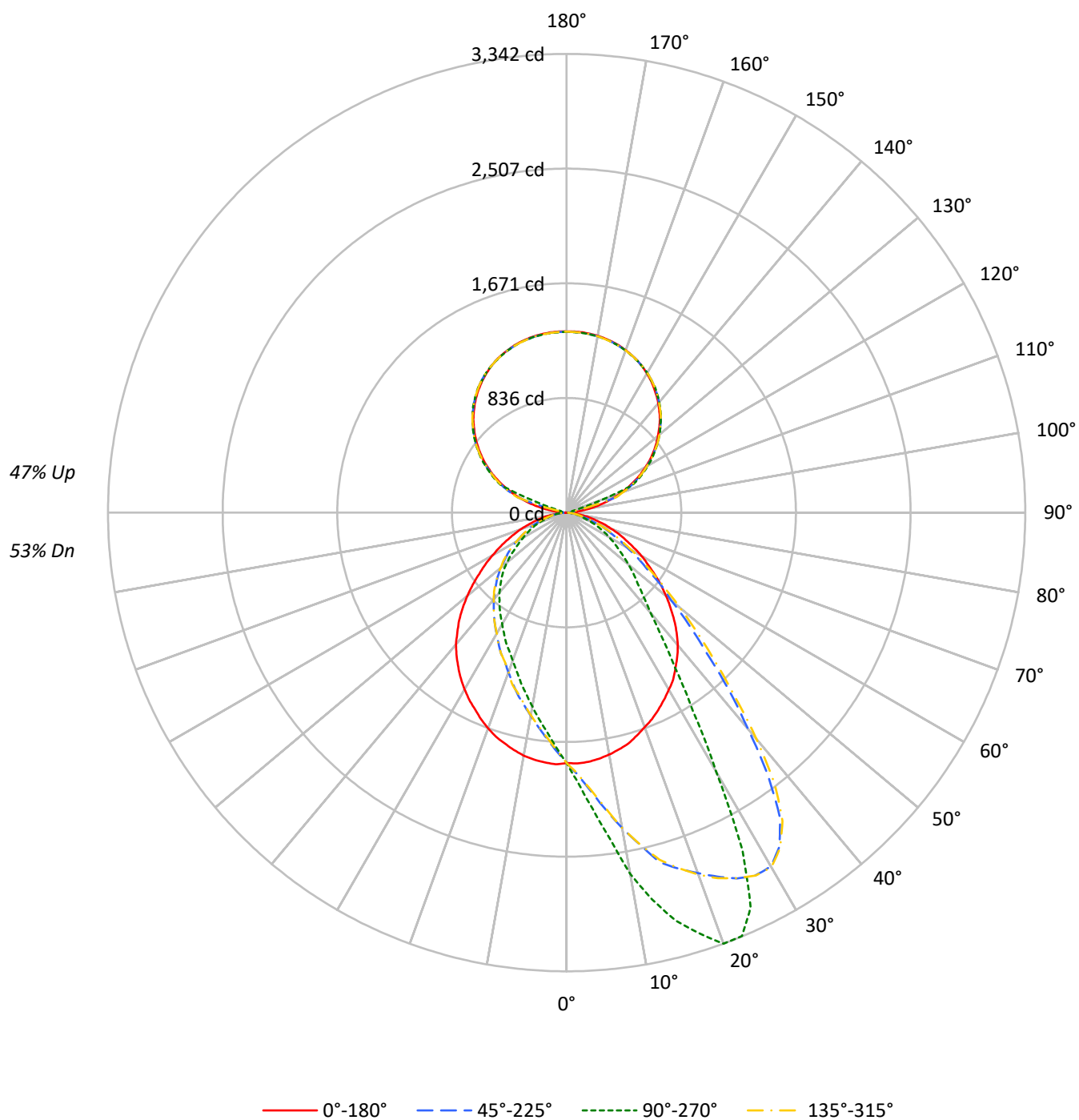
Lumens per Lamp: N/A  
Luminaire Lumens: 8565.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 89.8  
Input Voltage (V): 120  
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

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

### 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 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 |
| 1   | 99  | 95  | 91  | 88  | 92  | 88  | 85  | 82  | 75 | 73 | 71 | 64 | 62 | 61 | 53 | 52 | 51 |
| 2   | 91  | 84  | 78  | 73  | 84  | 78  | 73  | 68  | 67 | 63 | 60 | 57 | 54 | 52 | 47 | 46 | 44 |
| 3   | 83  | 74  | 67  | 61  | 77  | 69  | 63  | 58  | 60 | 55 | 51 | 51 | 47 | 44 | 43 | 40 | 38 |
| 4   | 76  | 66  | 58  | 53  | 71  | 62  | 55  | 50  | 53 | 48 | 44 | 46 | 42 | 39 | 38 | 36 | 33 |
| 5   | 70  | 59  | 51  | 45  | 65  | 55  | 48  | 43  | 48 | 43 | 38 | 41 | 37 | 34 | 35 | 32 | 29 |
| 6   | 65  | 53  | 45  | 40  | 60  | 50  | 43  | 38  | 43 | 38 | 34 | 37 | 33 | 30 | 32 | 29 | 26 |
| 7   | 60  | 48  | 40  | 35  | 56  | 45  | 38  | 33  | 40 | 34 | 30 | 34 | 30 | 27 | 29 | 26 | 23 |
| 8   | 56  | 44  | 36  | 31  | 52  | 41  | 34  | 30  | 36 | 31 | 27 | 31 | 27 | 24 | 27 | 24 | 21 |
| 9   | 52  | 40  | 33  | 28  | 48  | 38  | 31  | 27  | 33 | 28 | 24 | 29 | 25 | 22 | 25 | 22 | 19 |
| 10  | 49  | 37  | 30  | 25  | 45  | 35  | 28  | 24  | 31 | 25 | 22 | 27 | 23 | 20 | 23 | 20 | 18 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 19634 | 19634 | 19634 | 19634 |
| 5°  | 19649 | 22613 | 19700 | 16777 |
| 10° | 19476 | 27297 | 19560 | 14653 |
| 15° | 19275 | 30981 | 19275 | 12920 |
| 20° | 18880 | 33417 | 18986 | 11462 |
| 25° | 18591 | 31749 | 18554 | 10458 |
| 30° | 18255 | 21998 | 18215 | 9477  |
| 35° | 17849 | 14124 | 17769 | 8737  |
| 40° | 17345 | 9972  | 17258 | 8001  |
| 45° | 16467 | 7981  | 16443 | 7285  |
| 50° | 15390 | 6677  | 15339 | 6447  |
| 55° | 14177 | 5502  | 14064 | 5465  |
| 60° | 12987 | 4548  | 12857 | 4647  |
| 65° | 11589 | 3640  | 11666 | 3940  |
| 70° | 10301 | 2529  | 10578 | 3185  |
| 75° | 8734  | 1875  | 9088  | 2449  |
| 80° | 6955  | 1244  | 7546  | 1836  |
| 85° | 4947  | 587   | 5398  | 1141  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 26212 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.1  | 2.1       |
| 10°-20°   | 560.7  | 6.5       |
| 20°-30°   | 883.2  | 10.3      |
| 30°-40°   | 918.3  | 10.7      |
| 40°-50°   | 785.7  | 9.2       |
| 50°-60°   | 599.0  | 7.0       |
| 60°-70°   | 383.8  | 4.5       |
| 70°-80°   | 183.9  | 2.1       |
| 80°-90°   | 51.0   | 0.6       |
| 90°-100°  | 46.5   | 0.5       |
| 100°-110° | 224.8  | 2.6       |
| 110°-120° | 551.0  | 6.4       |
| 120°-130° | 699.5  | 8.2       |
| 130°-140° | 747.2  | 8.7       |
| 140°-150° | 698.7  | 8.2       |
| 150°-160° | 563.6  | 6.6       |
| 160°-170° | 363.7  | 4.2       |
| 170°-180° | 125.3  | 1.5       |
| 0°-30°    | 1623.0 | 18.9      |
| 0°-40°    | 2541.4 | 29.7      |
| 0°-60°    | 3926.0 | 45.8      |
| 0°-90°    | 4544.6 | 53.1      |
| 90°-120°  | 822.3  | 9.6       |
| 90°-150°  | 2967.7 | 34.6      |
| 90°-180°  | 4020.0 | 46.9      |
| 0°-180°   | 8565.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1824 | 1824 | 1824 | 1824 | 1824 |      |
| 5°   | 1822 | 2166 | 1827 | 1607 | 1822 | 173  |
| 15°  | 1741 | 3078 | 1741 | 1284 | 1741 | 490  |
| 25°  | 1584 | 3172 | 1580 | 1045 | 1584 | 729  |
| 35°  | 1382 | 1376 | 1376 | 851  | 1382 | 865  |
| 45°  | 1109 | 734  | 1107 | 670  | 1109 | 854  |
| 55°  | 782  | 461  | 776  | 458  | 782  | 701  |
| 65°  | 479  | 266  | 483  | 287  | 479  | 479  |
| 75°  | 230  | 112  | 239  | 147  | 230  | 248  |
| 85°  | 52   | 26   | 56   | 52   | 52   | 58   |
| 90°  | 1    | 29   | 1    | 29   | 1    | 6    |
| 95°  | 60   | 37   | 60   | 37   | 60   | 71   |
| 105° | 292  | 43   | 292  | 43   | 292  | 310  |
| 115° | 548  | 576  | 548  | 576  | 548  | 541  |
| 125° | 772  | 788  | 772  | 788  | 772  | 690  |
| 135° | 961  | 971  | 961  | 971  | 961  | 740  |
| 145° | 1109 | 1120 | 1109 | 1120 | 1109 | 694  |
| 155° | 1222 | 1220 | 1222 | 1220 | 1222 | 563  |
| 165° | 1288 | 1286 | 1288 | 1286 | 1288 | 364  |
| 175° | 1319 | 1314 | 1319 | 1314 | 1319 | 126  |
| 180° | 1319 | 1319 | 1319 | 1319 | 1319 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1828.7 | 1841.2 | 1850.6 | 1856.9 | 1872.5 | 1881.8 | 1889.6 | 1903.7 | 1903.7 | 1906.8 | 1913.1 |
| 5°     | 1822.5 | 1849.0 | 1867.8 | 1892.8 | 1925.6 | 1941.2 | 1963.0 | 1981.8 | 2008.3 | 2022.4 | 2036.4 |
| 7.5°   | 1808.4 | 1845.9 | 1885.0 | 1922.4 | 1970.9 | 2002.1 | 2024.0 | 2072.4 | 2106.7 | 2148.9 | 2181.7 |
| 10°    | 1789.7 | 1841.2 | 1891.2 | 1949.0 | 2014.6 | 2061.4 | 2094.2 | 2158.3 | 2223.8 | 2283.2 | 2333.2 |
| 12.5°  | 1766.3 | 1828.7 | 1900.6 | 1970.9 | 2063.0 | 2109.8 | 2162.9 | 2242.6 | 2336.3 | 2411.3 | 2478.4 |
| 15°    | 1741.3 | 1813.1 | 1894.3 | 1980.2 | 2095.8 | 2161.4 | 2237.9 | 2334.7 | 2439.4 | 2547.1 | 2639.3 |
| 17.5°  | 1702.2 | 1792.8 | 1883.4 | 2008.3 | 2144.2 | 2183.2 | 2248.8 | 2381.6 | 2511.2 | 2608.0 | 2720.5 |
| 20°    | 1663.2 | 1764.7 | 1878.7 | 1991.2 | 2138.0 | 2228.5 | 2289.4 | 2430.0 | 2569.0 | 2686.1 | 2793.9 |
| 22.5°  | 1627.3 | 1733.5 | 1852.2 | 1994.3 | 2131.7 | 2222.3 | 2298.8 | 2445.6 | 2606.5 | 2737.6 | 2870.4 |
| 25°    | 1583.6 | 1699.1 | 1830.3 | 1964.6 | 2131.7 | 2200.4 | 2284.8 | 2455.0 | 2625.2 | 2776.7 | 2940.7 |
| 27.5°  | 1536.7 | 1653.8 | 1783.5 | 1920.9 | 2073.9 | 2175.4 | 2258.2 | 2440.9 | 2648.6 | 2811.0 | 2979.7 |
| 30°    | 1489.9 | 1610.1 | 1735.0 | 1858.4 | 2030.2 | 2127.0 | 2222.3 | 2423.7 | 2661.1 | 2847.0 | 2976.6 |
| 32.5°  | 1444.6 | 1546.1 | 1669.4 | 1789.7 | 1959.9 | 2066.1 | 2173.9 | 2406.6 | 2665.8 | 2822.0 | 2884.4 |
| 35°    | 1382.1 | 1488.3 | 1588.2 | 1716.3 | 1888.1 | 1992.7 | 2119.2 | 2405.0 | 2645.5 | 2742.3 | 2711.1 |
| 37.5°  | 1324.3 | 1413.3 | 1508.6 | 1622.6 | 1799.1 | 1934.9 | 2066.1 | 2364.4 | 2578.4 | 2584.6 | 2408.1 |
| 40°    | 1260.3 | 1333.7 | 1413.3 | 1533.6 | 1724.1 | 1858.4 | 2000.5 | 2301.9 | 2456.5 | 2364.4 | 2053.6 |
| 42.5°  | 1186.9 | 1252.5 | 1314.9 | 1432.1 | 1639.8 | 1789.7 | 1942.7 | 2223.8 | 2280.1 | 2067.7 | 1744.4 |
| 45°    | 1108.8 | 1161.9 | 1219.7 | 1343.1 | 1550.8 | 1699.1 | 1852.2 | 2103.6 | 2045.8 | 1746.0 | 1438.3 |
| 47.5°  | 1027.6 | 1072.9 | 1129.1 | 1241.5 | 1455.5 | 1607.0 | 1752.2 | 1931.8 | 1785.0 | 1463.3 | 1205.6 |
| 50°    | 946.4  | 982.3  | 1037.0 | 1152.5 | 1358.7 | 1496.1 | 1630.4 | 1747.5 | 1541.4 | 1255.6 | 996.4  |
| 52.5°  | 866.7  | 894.8  | 951.1  | 1049.5 | 1249.4 | 1380.5 | 1477.4 | 1522.6 | 1313.4 | 1037.0 | 865.2  |
| 55°    | 782.4  | 813.6  | 851.1  | 951.1  | 1149.4 | 1246.2 | 1310.3 | 1308.7 | 1093.2 | 879.2  | 715.3  |
| 57.5°  | 701.2  | 729.3  | 762.1  | 862.1  | 1022.9 | 1088.5 | 1143.2 | 1116.6 | 912.0  | 719.9  | 613.7  |
| 60°    | 629.4  | 645.0  | 680.9  | 765.2  | 887.0  | 943.3  | 974.5  | 929.2  | 744.9  | 607.5  | 507.5  |
| 62.5°  | 551.3  | 566.9  | 596.6  | 676.2  | 751.2  | 780.8  | 807.4  | 749.6  | 615.3  | 495.1  | 434.2  |
| 65°    | 479.4  | 499.7  | 518.5  | 582.5  | 623.1  | 659.0  | 655.9  | 607.5  | 481.0  | 402.9  | 352.9  |
| 67.5°  | 417.0  | 424.8  | 440.4  | 479.4  | 498.2  | 524.7  | 526.3  | 471.6  | 387.3  | 328.0  | 298.3  |
| 70°    | 349.8  | 357.6  | 368.6  | 387.3  | 399.8  | 406.0  | 402.9  | 354.5  | 292.0  | 256.1  | 229.6  |
| 72.5°  | 292.0  | 290.5  | 298.3  | 298.3  | 310.8  | 309.2  | 299.8  | 262.4  | 221.8  | 192.1  | 176.5  |
| 75°    | 229.6  | 231.1  | 232.7  | 229.6  | 224.9  | 218.6  | 210.8  | 182.7  | 156.2  | 142.1  | 128.1  |
| 77.5°  | 179.6  | 176.5  | 178.0  | 167.1  | 160.9  | 154.6  | 143.7  | 129.6  | 107.8  | 104.6  | 98.4   |
| 80°    | 128.1  | 126.5  | 124.9  | 120.3  | 106.2  | 99.9   | 92.1   | 84.3   | 79.6   | 76.5   | 75.0   |
| 82.5°  | 85.9   | 85.9   | 82.8   | 73.4   | 65.6   | 60.9   | 59.3   | 56.2   | 51.5   | 51.5   | 50.0   |
| 85°    | 51.5   | 50.0   | 46.9   | 37.5   | 32.8   | 32.8   | 32.8   | 32.8   | 29.7   | 29.7   | 28.1   |
| 87.5°  | 20.3   | 18.7   | 14.1   | 14.1   | 12.5   | 12.5   | 12.5   | 10.9   | 10.9   | 9.4    | 9.4    |
| 90°    | 1.0    | 3.2    | 5.4    | 7.5    | 9.7    | 10.8   | 12.2   | 15.0   | 17.9   | 20.7   | 23.5   |
| 92.5°  | 22.5   | 21.2   | 19.9   | 18.6   | 17.3   | 16.7   | 17.7   | 19.6   | 21.6   | 23.5   | 25.5   |
| 95°    | 59.8   | 50.9   | 41.9   | 33.0   | 24.1   | 19.6   | 20.8   | 23.2   | 25.6   | 28.0   | 30.4   |
| 97.5°  | 108.8  | 102.7  | 96.6   | 90.5   | 84.4   | 81.3   | 75.8   | 64.7   | 53.6   | 42.5   | 31.4   |
| 100°   | 165.6  | 170.0  | 174.3  | 178.7  | 183.0  | 185.2  | 168.2  | 134.2  | 100.3  | 66.3   | 32.3   |
| 102.5° | 230.2  | 233.0  | 235.9  | 238.7  | 241.6  | 243.0  | 224.1  | 186.2  | 148.3  | 110.4  | 72.5   |
| 105°   | 292.0  | 294.4  | 296.8  | 299.1  | 301.5  | 302.7  | 292.9  | 273.3  | 253.8  | 234.2  | 214.6  |
| 107.5° | 357.6  | 359.6  | 361.5  | 363.5  | 365.4  | 366.4  | 368.0  | 371.3  | 374.6  | 377.8  | 381.1  |
| 110°   | 423.3  | 425.0  | 426.8  | 428.5  | 430.2  | 431.1  | 432.3  | 434.7  | 437.1  | 439.5  | 441.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 486.0  | 487.5  | 489.0  | 490.5  | 492.0  | 492.8  | 494.0  | 496.4  | 498.8  | 501.2  | 503.6  |
| 115°   | 547.7  | 549.0  | 550.3  | 551.6  | 552.9  | 553.6  | 554.6  | 556.5  | 558.5  | 560.4  | 562.4  |
| 117.5° | 608.4  | 609.9  | 611.5  | 613.0  | 614.5  | 615.3  | 615.8  | 616.9  | 618.0  | 619.1  | 620.2  |
| 120°   | 664.3  | 666.3  | 668.2  | 670.2  | 672.1  | 673.1  | 673.4  | 674.1  | 674.7  | 675.4  | 676.0  |
| 122.5° | 721.1  | 722.6  | 724.2  | 725.7  | 727.2  | 728.0  | 728.4  | 729.3  | 730.2  | 731.0  | 731.9  |
| 125°   | 772.1  | 773.8  | 775.6  | 777.3  | 779.0  | 779.9  | 780.3  | 781.2  | 782.1  | 782.9  | 783.8  |
| 127.5° | 823.0  | 824.7  | 826.5  | 828.2  | 829.9  | 830.8  | 831.3  | 832.4  | 833.5  | 834.6  | 835.7  |
| 130°   | 870.0  | 871.8  | 873.5  | 875.3  | 877.0  | 877.9  | 878.3  | 879.2  | 880.1  | 880.9  | 881.8  |
| 132.5° | 915.1  | 916.8  | 918.6  | 920.3  | 922.0  | 922.9  | 923.2  | 923.9  | 924.6  | 925.2  | 925.9  |
| 135°   | 961.2  | 962.5  | 963.8  | 965.1  | 966.4  | 967.0  | 967.4  | 968.3  | 969.2  | 970.0  | 970.9  |
| 137.5° | 1000.3 | 1002.1 | 1003.8 | 1005.6 | 1007.3 | 1008.2 | 1008.4 | 1008.8 | 1009.3 | 1009.7 | 1010.1 |
| 140°   | 1039.5 | 1040.8 | 1042.1 | 1043.4 | 1044.7 | 1045.4 | 1045.7 | 1046.4 | 1047.0 | 1047.7 | 1048.3 |
| 142.5° | 1075.8 | 1077.1 | 1078.4 | 1079.7 | 1081.0 | 1081.7 | 1082.0 | 1082.7 | 1083.3 | 1084.0 | 1084.6 |
| 145°   | 1109.1 | 1110.6 | 1112.2 | 1113.7 | 1115.2 | 1116.0 | 1116.2 | 1116.6 | 1117.1 | 1117.5 | 1117.9 |
| 147.5° | 1141.4 | 1142.5 | 1143.6 | 1144.7 | 1145.8 | 1146.3 | 1146.5 | 1147.0 | 1147.4 | 1147.9 | 1148.3 |
| 150°   | 1170.8 | 1171.5 | 1172.1 | 1172.8 | 1173.5 | 1173.8 | 1174.0 | 1174.4 | 1174.9 | 1175.3 | 1175.7 |
| 152.5° | 1197.3 | 1197.5 | 1197.7 | 1198.0 | 1198.2 | 1198.3 | 1198.4 | 1198.6 | 1198.8 | 1199.0 | 1199.2 |
| 155°   | 1221.8 | 1221.4 | 1220.9 | 1220.5 | 1220.0 | 1219.8 | 1219.9 | 1220.1 | 1220.4 | 1220.6 | 1220.8 |
| 157.5° | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.3 | 1241.1 | 1240.8 | 1240.6 | 1240.4 |
| 160°   | 1259.0 | 1258.8 | 1258.6 | 1258.3 | 1258.1 | 1258.0 | 1257.9 | 1257.7 | 1257.4 | 1257.2 | 1257.0 |
| 162.5° | 1275.7 | 1275.0 | 1274.4 | 1273.7 | 1273.0 | 1272.7 | 1272.6 | 1272.4 | 1272.1 | 1271.9 | 1271.7 |
| 165°   | 1288.4 | 1287.8 | 1287.1 | 1286.5 | 1285.8 | 1285.5 | 1285.4 | 1285.2 | 1284.9 | 1284.7 | 1284.5 |
| 167.5° | 1299.2 | 1298.3 | 1297.5 | 1296.6 | 1295.7 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 |
| 170°   | 1308.0 | 1307.1 | 1306.3 | 1305.4 | 1304.5 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.1 |
| 172.5° | 1313.9 | 1312.8 | 1311.7 | 1310.6 | 1309.5 | 1309.0 | 1309.1 | 1309.3 | 1309.5 | 1309.7 | 1309.9 |
| 175°   | 1318.8 | 1317.7 | 1316.6 | 1315.5 | 1314.4 | 1313.9 | 1314.0 | 1314.2 | 1314.4 | 1314.6 | 1314.8 |
| 177.5° | 1320.7 | 1319.6 | 1318.5 | 1317.4 | 1316.3 | 1315.8 | 1315.9 | 1316.1 | 1316.4 | 1316.6 | 1316.8 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

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CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1925.6 | 1925.6 | 1939.6 | 1953.7 | 1945.9 | 1950.6 | 1967.7 | 1961.5 | 1974.0 | 1972.4 | 1977.1 |
| 5°     | 2070.8 | 2088.0 | 2102.0 | 2131.7 | 2136.4 | 2131.7 | 2161.4 | 2169.2 | 2183.2 | 2166.1 | 2173.9 |
| 7.5°   | 2234.8 | 2270.7 | 2305.1 | 2348.8 | 2362.8 | 2366.0 | 2381.6 | 2403.4 | 2422.2 | 2387.8 | 2405.0 |
| 10°    | 2394.1 | 2448.7 | 2519.0 | 2558.1 | 2592.4 | 2604.9 | 2617.4 | 2631.5 | 2653.3 | 2673.6 | 2658.0 |
| 12.5°  | 2565.9 | 2645.5 | 2712.7 | 2782.9 | 2825.1 | 2820.4 | 2856.3 | 2865.7 | 2882.9 | 2887.6 | 2893.8 |
| 15°    | 2706.4 | 2818.9 | 2861.0 | 2965.7 | 2975.0 | 3006.3 | 3046.9 | 3082.8 | 3087.5 | 3078.1 | 3078.1 |
| 17.5°  | 2840.7 | 2937.5 | 3012.5 | 3096.8 | 3114.0 | 3140.6 | 3192.1 | 3209.3 | 3215.5 | 3214.0 | 3214.0 |
| 20°    | 2950.0 | 3014.1 | 3140.6 | 3210.8 | 3238.9 | 3273.3 | 3309.2 | 3331.1 | 3335.8 | 3342.0 | 3332.7 |
| 22.5°  | 3021.9 | 3118.7 | 3221.8 | 3279.6 | 3303.0 | 3315.5 | 3338.9 | 3345.1 | 3337.3 | 3338.9 | 3340.5 |
| 25°    | 3078.1 | 3173.4 | 3235.8 | 3251.4 | 3249.9 | 3234.3 | 3217.1 | 3187.4 | 3184.3 | 3171.8 | 3146.8 |
| 27.5°  | 3093.7 | 3129.6 | 3121.8 | 3057.8 | 2993.8 | 2987.5 | 2884.4 | 2828.2 | 2764.2 | 2773.6 | 2737.6 |
| 30°    | 3009.4 | 2962.5 | 2851.6 | 2689.2 | 2622.1 | 2512.8 | 2397.2 | 2276.9 | 2230.1 | 2178.6 | 2273.8 |
| 32.5°  | 2803.2 | 2636.1 | 2439.4 | 2228.5 | 2116.1 | 2019.3 | 1895.9 | 1808.4 | 1758.5 | 1716.3 | 1797.5 |
| 35°    | 2492.5 | 2231.7 | 1970.9 | 1771.0 | 1678.8 | 1591.4 | 1475.8 | 1432.1 | 1369.6 | 1375.9 | 1383.7 |
| 37.5°  | 2092.7 | 1805.3 | 1608.5 | 1411.8 | 1350.9 | 1314.9 | 1230.6 | 1163.5 | 1141.6 | 1135.3 | 1135.3 |
| 40°    | 1717.9 | 1482.0 | 1307.1 | 1152.5 | 1105.7 | 1076.0 | 1008.9 | 977.6  | 954.2  | 947.9  | 955.8  |
| 42.5°  | 1421.1 | 1219.7 | 1083.8 | 980.7  | 947.9  | 910.5  | 882.4  | 843.3  | 838.6  | 827.7  | 841.8  |
| 45°    | 1193.1 | 1018.2 | 916.7  | 841.8  | 813.6  | 799.6  | 768.4  | 744.9  | 735.6  | 734.0  | 744.9  |
| 47.5°  | 1012.0 | 876.1  | 787.1  | 740.2  | 718.4  | 704.3  | 677.8  | 668.4  | 659.0  | 662.2  | 657.5  |
| 50°    | 849.6  | 748.1  | 690.3  | 648.1  | 634.0  | 620.0  | 602.8  | 593.4  | 588.8  | 588.8  | 587.2  |
| 52.5°  | 729.3  | 645.0  | 607.5  | 568.5  | 562.2  | 554.4  | 535.7  | 529.4  | 521.6  | 520.0  | 526.3  |
| 55°    | 624.7  | 566.9  | 529.4  | 506.0  | 499.7  | 484.1  | 476.3  | 468.5  | 463.8  | 460.7  | 462.3  |
| 57.5°  | 534.1  | 490.4  | 465.4  | 445.1  | 434.2  | 427.9  | 413.8  | 412.3  | 409.2  | 409.2  | 407.6  |
| 60°    | 459.1  | 427.9  | 398.2  | 385.7  | 377.9  | 370.1  | 368.6  | 359.2  | 354.5  | 357.6  | 356.1  |
| 62.5°  | 388.9  | 363.9  | 346.7  | 332.6  | 328.0  | 321.7  | 317.0  | 313.9  | 309.2  | 310.8  | 310.8  |
| 65°    | 324.8  | 304.5  | 292.0  | 279.5  | 278.0  | 271.7  | 270.2  | 267.0  | 267.0  | 265.5  | 268.6  |
| 67.5°  | 267.0  | 253.0  | 242.1  | 234.3  | 229.6  | 231.1  | 224.9  | 220.2  | 220.2  | 218.6  | 223.3  |
| 70°    | 212.4  | 204.6  | 193.6  | 184.3  | 178.0  | 178.0  | 170.2  | 168.7  | 168.7  | 168.7  | 167.1  |
| 72.5°  | 164.0  | 149.9  | 145.2  | 142.1  | 142.1  | 142.1  | 139.0  | 139.0  | 137.4  | 139.0  | 137.4  |
| 75°    | 121.8  | 120.3  | 117.1  | 115.6  | 115.6  | 114.0  | 112.4  | 112.4  | 112.4  | 112.4  | 112.4  |
| 77.5°  | 95.3   | 95.3   | 92.1   | 90.6   | 90.6   | 90.6   | 89.0   | 89.0   | 87.5   | 87.5   | 87.5   |
| 80°    | 70.3   | 70.3   | 67.2   | 67.2   | 67.2   | 65.6   | 65.6   | 65.6   | 67.2   | 65.6   | 65.6   |
| 82.5°  | 48.4   | 48.4   | 46.9   | 48.4   | 46.9   | 45.3   | 45.3   | 45.3   | 43.7   | 45.3   | 45.3   |
| 85°    | 28.1   | 28.1   | 26.5   | 25.0   | 26.5   | 26.5   | 25.0   | 26.5   | 25.0   | 26.5   | 25.0   |
| 87.5°  | 10.9   | 9.4    | 9.4    | 9.4    | 7.8    | 9.4    | 7.8    | 7.8    | 9.4    | 7.8    | 9.4    |
| 90°    | 24.4   | 25.2   | 26.1   | 27.0   | 27.4   | 27.6   | 28.1   | 28.5   | 29.0   | 29.4   | 29.0   |
| 92.5°  | 27.0   | 28.5   | 30.0   | 31.5   | 32.3   | 32.4   | 32.6   | 32.9   | 33.1   | 33.3   | 33.1   |
| 95°    | 31.9   | 33.4   | 34.9   | 36.4   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   |
| 97.5°  | 33.1   | 34.9   | 36.6   | 38.3   | 39.2   | 39.3   | 39.5   | 39.8   | 40.0   | 40.2   | 40.0   |
| 100°   | 34.1   | 35.8   | 37.6   | 39.3   | 40.2   | 40.3   | 40.5   | 40.8   | 41.0   | 41.2   | 41.0   |
| 102.5° | 65.3   | 58.1   | 51.0   | 43.8   | 40.2   | 40.4   | 40.8   | 41.3   | 41.7   | 42.1   | 41.7   |
| 105°   | 176.1  | 137.5  | 99.0   | 60.5   | 41.2   | 41.4   | 41.8   | 42.3   | 42.7   | 43.1   | 42.7   |
| 107.5° | 347.6  | 314.0  | 280.5  | 247.0  | 230.2  | 215.9  | 187.4  | 158.9  | 130.4  | 101.9  | 130.4  |
| 110°   | 434.7  | 427.5  | 420.3  | 413.1  | 409.5  | 393.9  | 362.8  | 331.7  | 300.5  | 269.4  | 300.5  |

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CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 505.6  | 507.5  | 509.5  | 511.4  | 512.4  | 512.2  | 511.8  | 511.3  | 510.9  | 510.5  | 510.9  |
| 115°   | 564.6  | 566.8  | 568.9  | 571.1  | 572.2  | 572.6  | 573.5  | 574.4  | 575.2  | 576.1  | 575.2  |
| 117.5° | 621.9  | 623.7  | 625.4  | 627.1  | 628.0  | 628.1  | 628.3  | 628.6  | 628.8  | 629.0  | 628.8  |
| 120°   | 677.8  | 679.5  | 681.3  | 683.0  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  |
| 122.5° | 733.0  | 734.1  | 735.2  | 736.3  | 736.8  | 736.9  | 737.1  | 737.4  | 737.6  | 737.8  | 737.6  |
| 125°   | 784.2  | 784.7  | 785.1  | 785.6  | 785.8  | 786.0  | 786.4  | 786.9  | 787.3  | 787.7  | 787.3  |
| 127.5° | 836.4  | 837.0  | 837.7  | 838.4  | 838.7  | 838.5  | 838.0  | 837.6  | 837.1  | 836.7  | 837.1  |
| 130°   | 882.7  | 883.5  | 884.4  | 885.3  | 885.7  | 885.5  | 885.0  | 884.6  | 884.1  | 883.7  | 884.1  |
| 132.5° | 926.8  | 927.6  | 928.5  | 929.4  | 929.8  | 929.5  | 928.8  | 928.2  | 927.5  | 926.9  | 927.5  |
| 135°   | 971.6  | 972.2  | 972.9  | 973.6  | 973.9  | 973.6  | 972.9  | 972.2  | 971.6  | 970.9  | 971.6  |
| 137.5° | 1011.2 | 1012.3 | 1013.4 | 1014.5 | 1015.0 | 1014.8 | 1014.4 | 1013.9 | 1013.5 | 1013.1 | 1013.5 |
| 140°   | 1049.2 | 1050.1 | 1051.0 | 1051.9 | 1052.3 | 1052.1 | 1051.6 | 1051.2 | 1050.7 | 1050.3 | 1050.7 |
| 142.5° | 1085.2 | 1085.9 | 1086.5 | 1087.2 | 1087.5 | 1087.2 | 1086.5 | 1085.9 | 1085.2 | 1084.6 | 1085.2 |
| 145°   | 1118.3 | 1118.8 | 1119.2 | 1119.7 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 |
| 147.5° | 1148.7 | 1149.1 | 1149.6 | 1150.0 | 1150.2 | 1149.7 | 1148.6 | 1147.5 | 1146.4 | 1145.3 | 1146.4 |
| 150°   | 1176.1 | 1176.6 | 1177.0 | 1177.5 | 1177.7 | 1177.4 | 1176.7 | 1176.0 | 1175.4 | 1174.7 | 1175.4 |
| 152.5° | 1200.1 | 1201.0 | 1201.9 | 1202.8 | 1203.2 | 1202.7 | 1201.6 | 1200.5 | 1199.4 | 1198.3 | 1199.4 |
| 155°   | 1221.9 | 1223.0 | 1224.1 | 1225.2 | 1225.7 | 1225.0 | 1223.7 | 1222.4 | 1221.1 | 1219.8 | 1221.1 |
| 157.5° | 1241.7 | 1243.0 | 1244.3 | 1245.6 | 1246.3 | 1245.4 | 1243.7 | 1241.9 | 1240.2 | 1238.4 | 1240.2 |
| 160°   | 1258.3 | 1259.6 | 1260.9 | 1262.2 | 1262.9 | 1262.1 | 1260.6 | 1259.1 | 1257.6 | 1256.1 | 1257.6 |
| 162.5° | 1273.2 | 1274.8 | 1276.3 | 1277.8 | 1278.6 | 1277.9 | 1276.6 | 1275.3 | 1274.0 | 1272.7 | 1274.0 |
| 165°   | 1286.2 | 1288.0 | 1289.7 | 1291.4 | 1292.3 | 1291.5 | 1290.0 | 1288.5 | 1287.0 | 1285.5 | 1287.0 |
| 167.5° | 1297.0 | 1298.8 | 1300.5 | 1302.2 | 1303.1 | 1302.2 | 1300.5 | 1298.8 | 1297.0 | 1295.3 | 1297.0 |
| 170°   | 1305.8 | 1307.6 | 1309.3 | 1311.0 | 1311.9 | 1311.0 | 1309.3 | 1307.6 | 1305.8 | 1304.1 | 1305.8 |
| 172.5° | 1311.7 | 1313.4 | 1315.2 | 1316.9 | 1317.8 | 1316.8 | 1314.9 | 1312.9 | 1311.0 | 1309.0 | 1311.0 |
| 175°   | 1316.3 | 1317.9 | 1319.4 | 1320.9 | 1321.7 | 1320.8 | 1319.1 | 1317.4 | 1315.6 | 1313.9 | 1315.6 |
| 177.5° | 1318.5 | 1320.3 | 1322.0 | 1323.7 | 1324.6 | 1323.5 | 1321.3 | 1319.2 | 1317.0 | 1314.8 | 1317.0 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1969.3 | 1959.9 | 1953.7 | 1949.0 | 1944.3 | 1958.4 | 1939.6 | 1919.3 | 1905.3 | 1895.9 | 1892.8 |
| 5°     | 2175.4 | 2155.1 | 2138.0 | 2123.9 | 2127.0 | 2127.0 | 2094.2 | 2058.3 | 2027.1 | 2009.9 | 1991.2 |
| 7.5°   | 2414.4 | 2392.5 | 2358.2 | 2350.3 | 2344.1 | 2305.1 | 2272.3 | 2206.7 | 2167.6 | 2128.6 | 2094.2 |
| 10°    | 2651.8 | 2623.6 | 2590.8 | 2579.9 | 2564.3 | 2515.9 | 2465.9 | 2381.6 | 2333.2 | 2261.3 | 2216.0 |
| 12.5°  | 2873.5 | 2839.2 | 2806.4 | 2798.6 | 2775.1 | 2733.0 | 2647.1 | 2559.6 | 2476.8 | 2400.3 | 2320.7 |
| 15°    | 3059.4 | 3050.0 | 3000.0 | 2968.8 | 2917.2 | 2859.5 | 2840.7 | 2722.0 | 2617.4 | 2537.7 | 2394.1 |
| 17.5°  | 3215.5 | 3171.8 | 3124.9 | 3104.6 | 3084.3 | 3017.2 | 2950.0 | 2828.2 | 2715.8 | 2598.7 | 2506.5 |
| 20°    | 3340.5 | 3292.0 | 3259.3 | 3229.6 | 3220.2 | 3143.7 | 3037.5 | 2929.7 | 2806.4 | 2675.2 | 2554.9 |
| 22.5°  | 3346.7 | 3340.5 | 3318.6 | 3301.4 | 3282.7 | 3232.7 | 3148.4 | 3014.1 | 2882.9 | 2739.2 | 2581.5 |
| 25°    | 3217.1 | 3207.7 | 3270.2 | 3254.6 | 3267.1 | 3248.3 | 3203.0 | 3090.6 | 2937.5 | 2768.9 | 2609.6 |
| 27.5°  | 2826.7 | 2921.9 | 3020.3 | 3054.7 | 3078.1 | 3145.2 | 3167.1 | 3104.6 | 2981.3 | 2801.7 | 2623.6 |
| 30°    | 2295.7 | 2422.2 | 2581.5 | 2667.4 | 2733.0 | 2857.9 | 3020.3 | 3040.6 | 2982.8 | 2839.2 | 2620.5 |
| 32.5°  | 1802.2 | 1917.8 | 2045.8 | 2147.3 | 2234.8 | 2490.9 | 2709.5 | 2867.3 | 2895.4 | 2820.4 | 2628.3 |
| 35°    | 1452.4 | 1502.3 | 1624.2 | 1721.0 | 1839.7 | 2058.3 | 2316.0 | 2570.5 | 2742.3 | 2751.7 | 2604.9 |
| 37.5°  | 1197.8 | 1224.4 | 1330.6 | 1385.2 | 1455.5 | 1647.6 | 1888.1 | 2220.7 | 2487.8 | 2614.3 | 2539.3 |
| 40°    | 991.7  | 1052.6 | 1113.5 | 1144.7 | 1194.7 | 1327.4 | 1558.6 | 1819.4 | 2150.4 | 2384.7 | 2437.8 |
| 42.5°  | 860.5  | 887.0  | 926.1  | 969.8  | 1001.0 | 1116.6 | 1271.2 | 1510.2 | 1808.4 | 2134.8 | 2281.6 |
| 45°    | 759.0  | 768.4  | 809.0  | 837.1  | 869.9  | 951.1  | 1060.4 | 1260.3 | 1522.6 | 1844.4 | 2094.2 |
| 47.5°  | 674.7  | 693.4  | 715.3  | 732.4  | 754.3  | 816.8  | 910.5  | 1055.7 | 1286.8 | 1574.2 | 1842.8 |
| 50°    | 599.7  | 610.6  | 638.7  | 646.5  | 662.2  | 705.9  | 777.7  | 888.6  | 1079.1 | 1308.7 | 1586.7 |
| 52.5°  | 529.4  | 549.7  | 560.6  | 571.6  | 585.6  | 621.6  | 668.4  | 759.0  | 902.7  | 1118.2 | 1354.0 |
| 55°    | 474.8  | 481.0  | 496.6  | 506.0  | 516.9  | 541.9  | 582.5  | 649.7  | 762.1  | 933.9  | 1157.2 |
| 57.5°  | 421.7  | 421.7  | 437.3  | 445.1  | 456.0  | 474.8  | 510.7  | 562.2  | 643.4  | 771.5  | 976.1  |
| 60°    | 365.4  | 367.0  | 379.5  | 388.9  | 392.0  | 410.7  | 440.4  | 481.0  | 543.5  | 637.2  | 804.3  |
| 62.5°  | 315.5  | 323.3  | 329.5  | 332.6  | 343.6  | 354.5  | 379.5  | 407.6  | 451.3  | 534.1  | 652.8  |
| 65°    | 273.3  | 274.9  | 279.5  | 282.7  | 287.4  | 299.8  | 318.6  | 337.3  | 374.8  | 435.7  | 532.5  |
| 67.5°  | 224.9  | 231.1  | 237.4  | 237.4  | 242.1  | 248.3  | 267.0  | 282.7  | 310.8  | 346.7  | 412.3  |
| 70°    | 168.7  | 171.8  | 181.2  | 185.8  | 192.1  | 203.0  | 212.4  | 221.8  | 243.6  | 270.2  | 320.1  |
| 72.5°  | 140.6  | 140.6  | 143.7  | 145.2  | 145.2  | 153.0  | 167.1  | 176.5  | 187.4  | 206.1  | 240.5  |
| 75°    | 112.4  | 112.4  | 117.1  | 115.6  | 118.7  | 121.8  | 123.4  | 129.6  | 135.9  | 149.9  | 170.2  |
| 77.5°  | 89.0   | 90.6   | 90.6   | 92.1   | 92.1   | 93.7   | 95.3   | 98.4   | 101.5  | 109.3  | 118.7  |
| 80°    | 65.6   | 67.2   | 67.2   | 68.7   | 68.7   | 70.3   | 71.8   | 73.4   | 76.5   | 79.6   | 84.3   |
| 82.5°  | 45.3   | 46.9   | 46.9   | 48.4   | 46.9   | 48.4   | 50.0   | 50.0   | 51.5   | 54.7   | 56.2   |
| 85°    | 26.5   | 26.5   | 28.1   | 26.5   | 26.5   | 26.5   | 28.1   | 28.1   | 29.7   | 34.4   | 34.4   |
| 87.5°  | 7.8    | 9.4    | 7.8    | 9.4    | 9.4    | 9.4    | 9.4    | 10.9   | 10.9   | 12.5   | 14.1   |
| 90°    | 28.5   | 28.1   | 27.6   | 27.4   | 27.0   | 26.1   | 25.2   | 24.4   | 23.5   | 20.7   | 17.9   |
| 92.5°  | 32.9   | 32.6   | 32.4   | 32.3   | 31.5   | 30.0   | 28.5   | 27.0   | 25.5   | 23.5   | 21.6   |
| 95°    | 37.2   | 37.2   | 37.2   | 37.2   | 36.4   | 34.9   | 33.4   | 31.9   | 30.4   | 28.0   | 25.6   |
| 97.5°  | 39.8   | 39.5   | 39.3   | 39.2   | 38.3   | 36.6   | 34.9   | 33.1   | 31.4   | 42.5   | 53.6   |
| 100°   | 40.8   | 40.5   | 40.3   | 40.2   | 39.3   | 37.6   | 35.8   | 34.1   | 32.3   | 66.3   | 100.3  |
| 102.5° | 41.3   | 40.8   | 40.4   | 40.2   | 43.8   | 51.0   | 58.1   | 65.3   | 72.5   | 110.4  | 148.3  |
| 105°   | 42.3   | 41.8   | 41.4   | 41.2   | 60.5   | 99.0   | 137.5  | 176.1  | 214.6  | 234.2  | 253.8  |
| 107.5° | 158.9  | 187.4  | 215.9  | 230.2  | 247.0  | 280.5  | 314.0  | 347.6  | 381.1  | 377.8  | 374.6  |
| 110°   | 331.7  | 362.8  | 393.9  | 409.5  | 413.1  | 420.3  | 427.5  | 434.7  | 441.9  | 439.5  | 437.1  |

TEST NUMBER: P1010819

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 511.3  | 511.8  | 512.2  | 512.4  | 511.4  | 509.5  | 507.5  | 505.6  | 503.6  | 501.2  | 498.8  |
| 115°   | 574.4  | 573.5  | 572.6  | 572.2  | 571.1  | 568.9  | 566.8  | 564.6  | 562.4  | 560.4  | 558.5  |
| 117.5° | 628.6  | 628.3  | 628.1  | 628.0  | 627.1  | 625.4  | 623.7  | 621.9  | 620.2  | 619.1  | 618.0  |
| 120°   | 683.9  | 683.9  | 683.9  | 683.9  | 683.0  | 681.3  | 679.5  | 677.8  | 676.0  | 675.4  | 674.7  |
| 122.5° | 737.4  | 737.1  | 736.9  | 736.8  | 736.3  | 735.2  | 734.1  | 733.0  | 731.9  | 731.0  | 730.2  |
| 125°   | 786.9  | 786.4  | 786.0  | 785.8  | 785.6  | 785.1  | 784.7  | 784.2  | 783.8  | 782.9  | 782.1  |
| 127.5° | 837.6  | 838.0  | 838.5  | 838.7  | 838.4  | 837.7  | 837.0  | 836.4  | 835.7  | 834.6  | 833.5  |
| 130°   | 884.6  | 885.0  | 885.5  | 885.7  | 885.3  | 884.4  | 883.5  | 882.7  | 881.8  | 880.9  | 880.1  |
| 132.5° | 928.2  | 928.8  | 929.5  | 929.8  | 929.4  | 928.5  | 927.6  | 926.8  | 925.9  | 925.2  | 924.6  |
| 135°   | 972.2  | 972.9  | 973.6  | 973.9  | 973.6  | 972.9  | 972.2  | 971.6  | 970.9  | 970.0  | 969.2  |
| 137.5° | 1013.9 | 1014.4 | 1014.8 | 1015.0 | 1014.5 | 1013.4 | 1012.3 | 1011.2 | 1010.1 | 1009.7 | 1009.3 |
| 140°   | 1051.2 | 1051.6 | 1052.1 | 1052.3 | 1051.9 | 1051.0 | 1050.1 | 1049.2 | 1048.3 | 1047.7 | 1047.0 |
| 142.5° | 1085.9 | 1086.5 | 1087.2 | 1087.5 | 1087.2 | 1086.5 | 1085.9 | 1085.2 | 1084.6 | 1084.0 | 1083.3 |
| 145°   | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.7 | 1119.2 | 1118.8 | 1118.3 | 1117.9 | 1117.5 | 1117.1 |
| 147.5° | 1147.5 | 1148.6 | 1149.7 | 1150.2 | 1150.0 | 1149.6 | 1149.1 | 1148.7 | 1148.3 | 1147.9 | 1147.4 |
| 150°   | 1176.0 | 1176.7 | 1177.4 | 1177.7 | 1177.5 | 1177.0 | 1176.6 | 1176.1 | 1175.7 | 1175.3 | 1174.9 |
| 152.5° | 1200.5 | 1201.6 | 1202.7 | 1203.2 | 1202.8 | 1201.9 | 1201.0 | 1200.1 | 1199.2 | 1199.0 | 1198.8 |
| 155°   | 1222.4 | 1223.7 | 1225.0 | 1225.7 | 1225.2 | 1224.1 | 1223.0 | 1221.9 | 1220.8 | 1220.6 | 1220.4 |
| 157.5° | 1241.9 | 1243.7 | 1245.4 | 1246.3 | 1245.6 | 1244.3 | 1243.0 | 1241.7 | 1240.4 | 1240.6 | 1240.8 |
| 160°   | 1259.1 | 1260.6 | 1262.1 | 1262.9 | 1262.2 | 1260.9 | 1259.6 | 1258.3 | 1257.0 | 1257.2 | 1257.4 |
| 162.5° | 1275.3 | 1276.6 | 1277.9 | 1278.6 | 1277.8 | 1276.3 | 1274.8 | 1273.2 | 1271.7 | 1271.9 | 1272.1 |
| 165°   | 1288.5 | 1290.0 | 1291.5 | 1292.3 | 1291.4 | 1289.7 | 1288.0 | 1286.2 | 1284.5 | 1284.7 | 1284.9 |
| 167.5° | 1298.8 | 1300.5 | 1302.2 | 1303.1 | 1302.2 | 1300.5 | 1298.8 | 1297.0 | 1295.3 | 1295.3 | 1295.3 |
| 170°   | 1307.6 | 1309.3 | 1311.0 | 1311.9 | 1311.0 | 1309.3 | 1307.6 | 1305.8 | 1304.1 | 1304.1 | 1304.1 |
| 172.5° | 1312.9 | 1314.9 | 1316.8 | 1317.8 | 1316.9 | 1315.2 | 1313.4 | 1311.7 | 1309.9 | 1309.7 | 1309.5 |
| 175°   | 1317.4 | 1319.1 | 1320.8 | 1321.7 | 1320.9 | 1319.4 | 1317.9 | 1316.3 | 1314.8 | 1314.6 | 1314.4 |
| 177.5° | 1319.2 | 1321.3 | 1323.5 | 1324.6 | 1323.7 | 1322.0 | 1320.3 | 1318.5 | 1316.8 | 1316.6 | 1316.4 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1888.1 | 1880.3 | 1872.5 | 1872.5 | 1855.3 | 1839.7 | 1831.9 | 1835.0 | 1825.6 | 1813.1 | 1800.6 |
| 5°     | 1970.9 | 1939.6 | 1933.4 | 1916.2 | 1892.8 | 1860.0 | 1842.8 | 1827.2 | 1808.4 | 1783.5 | 1760.0 |
| 7.5°   | 2047.4 | 2006.8 | 1984.9 | 1967.7 | 1922.4 | 1877.2 | 1839.7 | 1814.7 | 1781.9 | 1744.4 | 1716.3 |
| 10°    | 2147.3 | 2072.4 | 2048.9 | 2009.9 | 1945.9 | 1881.8 | 1838.1 | 1797.5 | 1752.2 | 1708.5 | 1671.0 |
| 12.5°  | 2227.0 | 2141.1 | 2097.4 | 2058.3 | 1975.5 | 1894.3 | 1820.9 | 1771.0 | 1716.3 | 1667.9 | 1619.5 |
| 15°    | 2317.6 | 2220.7 | 2144.2 | 2097.4 | 1992.7 | 1894.3 | 1811.6 | 1741.3 | 1680.4 | 1621.0 | 1578.9 |
| 17.5°  | 2361.3 | 2239.5 | 2205.1 | 2138.0 | 1986.5 | 1888.1 | 1786.6 | 1711.6 | 1638.2 | 1569.5 | 1519.5 |
| 20°    | 2430.0 | 2287.9 | 2202.0 | 2156.7 | 2022.4 | 1877.2 | 1758.5 | 1672.6 | 1596.0 | 1522.6 | 1469.6 |
| 22.5°  | 2434.7 | 2280.1 | 2223.8 | 2138.0 | 1972.4 | 1844.4 | 1733.5 | 1628.8 | 1539.8 | 1471.1 | 1416.5 |
| 25°    | 2423.7 | 2266.0 | 2187.9 | 2119.2 | 1981.8 | 1825.6 | 1683.5 | 1580.4 | 1493.0 | 1413.3 | 1349.3 |
| 27.5°  | 2419.1 | 2225.4 | 2152.0 | 2083.3 | 1928.7 | 1771.0 | 1653.8 | 1536.7 | 1436.8 | 1366.5 | 1300.9 |
| 30°    | 2412.8 | 2181.7 | 2092.7 | 2013.0 | 1870.9 | 1728.8 | 1588.2 | 1486.7 | 1391.5 | 1302.5 | 1236.9 |
| 32.5°  | 2372.2 | 2122.3 | 2031.8 | 1947.4 | 1794.4 | 1652.3 | 1541.4 | 1433.6 | 1330.6 | 1247.8 | 1188.4 |
| 35°    | 2359.7 | 2067.7 | 1949.0 | 1858.4 | 1708.5 | 1582.0 | 1464.9 | 1375.9 | 1279.0 | 1196.3 | 1126.0 |
| 37.5°  | 2323.8 | 2011.5 | 1883.4 | 1767.8 | 1611.7 | 1491.4 | 1405.5 | 1316.5 | 1222.8 | 1133.8 | 1077.6 |
| 40°    | 2261.3 | 1945.9 | 1800.6 | 1681.9 | 1521.1 | 1399.3 | 1319.6 | 1254.0 | 1161.9 | 1082.3 | 1013.5 |
| 42.5°  | 2169.2 | 1878.7 | 1722.5 | 1597.6 | 1419.6 | 1305.6 | 1240.0 | 1177.5 | 1099.4 | 1016.7 | 960.4  |
| 45°    | 2063.0 | 1789.7 | 1644.5 | 1505.5 | 1324.3 | 1213.4 | 1144.7 | 1107.2 | 1035.4 | 965.1  | 899.5  |
| 47.5°  | 1917.8 | 1697.6 | 1553.9 | 1410.2 | 1225.9 | 1118.2 | 1063.5 | 1026.0 | 976.1  | 899.5  | 846.4  |
| 50°    | 1735.0 | 1578.9 | 1443.0 | 1314.9 | 1129.1 | 1026.0 | 971.4  | 943.3  | 901.1  | 846.4  | 794.9  |
| 52.5°  | 1532.0 | 1441.4 | 1329.0 | 1210.3 | 1030.7 | 933.9  | 883.9  | 862.1  | 830.8  | 779.3  | 735.6  |
| 55°    | 1327.4 | 1288.4 | 1211.9 | 1094.7 | 927.6  | 848.0  | 804.3  | 776.2  | 752.7  | 715.3  | 677.8  |
| 57.5°  | 1144.7 | 1126.0 | 1072.9 | 982.3  | 841.8  | 759.0  | 721.5  | 702.8  | 684.0  | 655.9  | 618.4  |
| 60°    | 955.8  | 976.1  | 921.4  | 876.1  | 748.1  | 676.2  | 643.4  | 623.1  | 613.7  | 588.8  | 565.3  |
| 62.5°  | 791.8  | 810.5  | 779.3  | 744.9  | 654.3  | 590.3  | 570.0  | 551.3  | 545.0  | 523.2  | 499.7  |
| 65°    | 643.4  | 666.8  | 643.4  | 624.7  | 570.0  | 516.9  | 491.9  | 482.6  | 476.3  | 462.3  | 443.5  |
| 67.5°  | 512.2  | 535.7  | 524.7  | 501.3  | 484.1  | 440.4  | 426.3  | 417.0  | 413.8  | 402.9  | 387.3  |
| 70°    | 385.7  | 418.5  | 421.7  | 407.6  | 392.0  | 371.7  | 362.3  | 359.2  | 351.4  | 342.0  | 332.6  |
| 72.5°  | 278.0  | 315.5  | 317.0  | 317.0  | 307.7  | 307.7  | 298.3  | 293.6  | 293.6  | 284.2  | 273.3  |
| 75°    | 204.6  | 229.6  | 232.7  | 235.8  | 240.5  | 245.2  | 238.9  | 238.9  | 237.4  | 228.0  | 223.3  |
| 77.5°  | 135.9  | 157.7  | 165.5  | 176.5  | 182.7  | 182.7  | 185.8  | 189.0  | 185.8  | 181.2  | 178.0  |
| 80°    | 87.5   | 103.1  | 112.4  | 118.7  | 128.1  | 132.7  | 137.4  | 139.0  | 135.9  | 134.3  | 129.6  |
| 82.5°  | 57.8   | 62.5   | 67.2   | 75.0   | 85.9   | 93.7   | 93.7   | 92.1   | 95.3   | 93.7   | 92.1   |
| 85°    | 32.8   | 35.9   | 37.5   | 39.0   | 45.3   | 53.1   | 54.7   | 56.2   | 59.3   | 56.2   | 53.1   |
| 87.5°  | 12.5   | 14.1   | 14.1   | 14.1   | 17.2   | 18.7   | 23.4   | 29.7   | 28.1   | 25.0   | 25.0   |
| 90°    | 15.0   | 12.2   | 10.8   | 9.7    | 7.5    | 5.4    | 3.2    | 1.0    | 3.2    | 5.4    | 7.5    |
| 92.5°  | 19.6   | 17.7   | 16.7   | 17.3   | 18.6   | 19.9   | 21.2   | 22.5   | 21.2   | 19.9   | 18.6   |
| 95°    | 23.2   | 20.8   | 19.6   | 24.1   | 33.0   | 41.9   | 50.9   | 59.8   | 50.9   | 41.9   | 33.0   |
| 97.5°  | 64.7   | 75.8   | 81.3   | 84.4   | 90.5   | 96.6   | 102.7  | 108.8  | 102.7  | 96.6   | 90.5   |
| 100°   | 134.2  | 168.2  | 185.2  | 183.0  | 178.7  | 174.3  | 170.0  | 165.6  | 170.0  | 174.3  | 178.7  |
| 102.5° | 186.2  | 224.1  | 243.0  | 241.6  | 238.7  | 235.9  | 233.0  | 230.2  | 233.0  | 235.9  | 238.7  |
| 105°   | 273.3  | 292.9  | 302.7  | 301.5  | 299.1  | 296.8  | 294.4  | 292.0  | 294.4  | 296.8  | 299.1  |
| 107.5° | 371.3  | 368.0  | 366.4  | 365.4  | 363.5  | 361.5  | 359.6  | 357.6  | 359.6  | 361.5  | 363.5  |
| 110°   | 434.7  | 432.3  | 431.1  | 430.2  | 428.5  | 426.8  | 425.0  | 423.3  | 425.0  | 426.8  | 428.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 496.4  | 494.0  | 492.8  | 492.0  | 490.5  | 489.0  | 487.5  | 486.0  | 487.5  | 489.0  | 490.5  |
| 115°   | 556.5  | 554.6  | 553.6  | 552.9  | 551.6  | 550.3  | 549.0  | 547.7  | 549.0  | 550.3  | 551.6  |
| 117.5° | 616.9  | 615.8  | 615.3  | 614.5  | 613.0  | 611.5  | 609.9  | 608.4  | 609.9  | 611.5  | 613.0  |
| 120°   | 674.1  | 673.4  | 673.1  | 672.1  | 670.2  | 668.2  | 666.3  | 664.3  | 666.3  | 668.2  | 670.2  |
| 122.5° | 729.3  | 728.4  | 728.0  | 727.2  | 725.7  | 724.2  | 722.6  | 721.1  | 722.6  | 724.2  | 725.7  |
| 125°   | 781.2  | 780.3  | 779.9  | 779.0  | 777.3  | 775.6  | 773.8  | 772.1  | 773.8  | 775.6  | 777.3  |
| 127.5° | 832.4  | 831.3  | 830.8  | 829.9  | 828.2  | 826.5  | 824.7  | 823.0  | 824.7  | 826.5  | 828.2  |
| 130°   | 879.2  | 878.3  | 877.9  | 877.0  | 875.3  | 873.5  | 871.8  | 870.0  | 871.8  | 873.5  | 875.3  |
| 132.5° | 923.9  | 923.2  | 922.9  | 922.0  | 920.3  | 918.6  | 916.8  | 915.1  | 916.8  | 918.6  | 920.3  |
| 135°   | 968.3  | 967.4  | 967.0  | 966.4  | 965.1  | 963.8  | 962.5  | 961.2  | 962.5  | 963.8  | 965.1  |
| 137.5° | 1008.8 | 1008.4 | 1008.2 | 1007.3 | 1005.6 | 1003.8 | 1002.1 | 1000.3 | 1002.1 | 1003.8 | 1005.6 |
| 140°   | 1046.4 | 1045.7 | 1045.4 | 1044.7 | 1043.4 | 1042.1 | 1040.8 | 1039.5 | 1040.8 | 1042.1 | 1043.4 |
| 142.5° | 1082.7 | 1082.0 | 1081.7 | 1081.0 | 1079.7 | 1078.4 | 1077.1 | 1075.8 | 1077.1 | 1078.4 | 1079.7 |
| 145°   | 1116.6 | 1116.2 | 1116.0 | 1115.2 | 1113.7 | 1112.2 | 1110.6 | 1109.1 | 1110.6 | 1112.2 | 1113.7 |
| 147.5° | 1147.0 | 1146.5 | 1146.3 | 1145.8 | 1144.7 | 1143.6 | 1142.5 | 1141.4 | 1142.5 | 1143.6 | 1144.7 |
| 150°   | 1174.4 | 1174.0 | 1173.8 | 1173.5 | 1172.8 | 1172.1 | 1171.5 | 1170.8 | 1171.5 | 1172.1 | 1172.8 |
| 152.5° | 1198.6 | 1198.4 | 1198.3 | 1198.2 | 1198.0 | 1197.7 | 1197.5 | 1197.3 | 1197.5 | 1197.7 | 1198.0 |
| 155°   | 1220.1 | 1219.9 | 1219.8 | 1220.0 | 1220.5 | 1220.9 | 1221.4 | 1221.8 | 1221.4 | 1220.9 | 1220.5 |
| 157.5° | 1241.1 | 1241.3 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 | 1241.4 |
| 160°   | 1257.7 | 1257.9 | 1258.0 | 1258.1 | 1258.3 | 1258.6 | 1258.8 | 1259.0 | 1258.8 | 1258.6 | 1258.3 |
| 162.5° | 1272.4 | 1272.6 | 1272.7 | 1273.0 | 1273.7 | 1274.4 | 1275.0 | 1275.7 | 1275.0 | 1274.4 | 1273.7 |
| 165°   | 1285.2 | 1285.4 | 1285.5 | 1285.8 | 1286.5 | 1287.1 | 1287.8 | 1288.4 | 1287.8 | 1287.1 | 1286.5 |
| 167.5° | 1295.3 | 1295.3 | 1295.3 | 1295.7 | 1296.6 | 1297.5 | 1298.3 | 1299.2 | 1298.3 | 1297.5 | 1296.6 |
| 170°   | 1304.1 | 1304.1 | 1304.1 | 1304.5 | 1305.4 | 1306.3 | 1307.1 | 1308.0 | 1307.1 | 1306.3 | 1305.4 |
| 172.5° | 1309.3 | 1309.1 | 1309.0 | 1309.5 | 1310.6 | 1311.7 | 1312.8 | 1313.9 | 1312.8 | 1311.7 | 1310.6 |
| 175°   | 1314.2 | 1314.0 | 1313.9 | 1314.4 | 1315.5 | 1316.6 | 1317.7 | 1318.8 | 1317.7 | 1316.6 | 1315.5 |
| 177.5° | 1316.1 | 1315.9 | 1315.8 | 1316.3 | 1317.4 | 1318.5 | 1319.6 | 1320.7 | 1319.6 | 1318.5 | 1317.4 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1800.6 | 1792.8 | 1789.7 | 1781.9 | 1763.1 | 1750.7 | 1736.6 | 1727.2 | 1728.8 | 1721.0 | 1725.7 |
| 5°     | 1744.4 | 1742.8 | 1731.9 | 1716.3 | 1689.8 | 1675.7 | 1650.7 | 1638.2 | 1632.0 | 1633.5 | 1624.2 |
| 7.5°   | 1697.6 | 1683.5 | 1675.7 | 1650.7 | 1625.7 | 1596.0 | 1575.7 | 1564.8 | 1555.4 | 1546.1 | 1539.8 |
| 10°    | 1644.5 | 1632.0 | 1619.5 | 1592.9 | 1558.6 | 1530.5 | 1502.3 | 1491.4 | 1477.4 | 1471.1 | 1466.4 |
| 12.5°  | 1588.2 | 1580.4 | 1564.8 | 1533.6 | 1494.5 | 1468.0 | 1435.2 | 1428.9 | 1410.2 | 1397.7 | 1394.6 |
| 15°    | 1536.7 | 1532.0 | 1503.9 | 1468.0 | 1428.9 | 1402.4 | 1374.3 | 1355.5 | 1324.3 | 1330.6 | 1319.6 |
| 17.5°  | 1482.0 | 1461.7 | 1444.6 | 1396.2 | 1377.4 | 1336.8 | 1304.0 | 1294.6 | 1272.8 | 1258.7 | 1244.7 |
| 20°    | 1421.1 | 1408.6 | 1386.8 | 1355.5 | 1310.3 | 1263.4 | 1238.4 | 1222.8 | 1210.3 | 1188.4 | 1182.2 |
| 22.5°  | 1363.4 | 1347.7 | 1329.0 | 1288.4 | 1249.4 | 1210.3 | 1176.0 | 1161.9 | 1146.3 | 1130.7 | 1121.3 |
| 25°    | 1318.1 | 1294.6 | 1274.3 | 1224.4 | 1185.3 | 1152.5 | 1130.7 | 1107.2 | 1085.4 | 1076.0 | 1072.9 |
| 27.5°  | 1247.8 | 1233.7 | 1213.4 | 1166.6 | 1130.7 | 1094.7 | 1074.4 | 1058.8 | 1035.4 | 1024.5 | 1015.1 |
| 30°    | 1202.5 | 1174.4 | 1151.0 | 1113.5 | 1077.6 | 1038.5 | 1019.8 | 1001.0 | 987.0  | 972.9  | 962.0  |
| 32.5°  | 1141.6 | 1119.7 | 1101.0 | 1063.5 | 1027.6 | 991.7  | 971.4  | 943.3  | 935.5  | 924.5  | 912.0  |
| 35°    | 1082.3 | 1068.2 | 1047.9 | 1007.3 | 968.2  | 943.3  | 921.4  | 894.8  | 885.5  | 877.7  | 866.7  |
| 37.5°  | 1026.0 | 1005.7 | 991.7  | 952.6  | 918.3  | 888.6  | 871.4  | 849.6  | 843.3  | 833.9  | 826.1  |
| 40°    | 977.6  | 957.3  | 943.3  | 904.2  | 868.3  | 837.1  | 826.1  | 804.3  | 794.9  | 784.0  | 779.3  |
| 42.5°  | 923.0  | 905.8  | 887.0  | 858.9  | 821.4  | 790.2  | 768.4  | 755.9  | 743.4  | 738.7  | 729.3  |
| 45°    | 865.2  | 849.6  | 835.5  | 804.3  | 765.2  | 743.4  | 724.6  | 707.4  | 698.1  | 690.3  | 684.0  |
| 47.5°  | 815.2  | 801.1  | 782.4  | 748.1  | 716.8  | 696.5  | 677.8  | 660.6  | 651.2  | 641.9  | 634.0  |
| 50°    | 757.4  | 749.6  | 729.3  | 696.5  | 666.8  | 643.4  | 626.2  | 610.6  | 604.4  | 593.4  | 580.9  |
| 52.5°  | 705.9  | 691.8  | 674.7  | 648.1  | 621.6  | 593.4  | 570.0  | 560.6  | 549.7  | 543.5  | 532.5  |
| 55°    | 645.0  | 635.6  | 616.9  | 593.4  | 565.3  | 541.9  | 524.7  | 512.2  | 498.2  | 491.9  | 477.9  |
| 57.5°  | 593.4  | 576.3  | 566.9  | 537.2  | 510.7  | 487.2  | 474.8  | 462.3  | 446.6  | 437.3  | 431.0  |
| 60°    | 537.2  | 521.6  | 507.5  | 482.6  | 463.8  | 438.8  | 420.1  | 409.2  | 398.2  | 385.7  | 379.5  |
| 62.5°  | 482.6  | 470.1  | 452.9  | 432.6  | 409.2  | 388.9  | 374.8  | 359.2  | 352.9  | 340.4  | 335.8  |
| 65°    | 423.2  | 413.8  | 399.8  | 376.4  | 357.6  | 340.4  | 326.4  | 313.9  | 307.7  | 303.0  | 299.8  |
| 67.5°  | 370.1  | 357.6  | 348.3  | 328.0  | 307.7  | 293.6  | 285.8  | 278.0  | 270.2  | 265.5  | 260.8  |
| 70°    | 315.5  | 306.1  | 296.7  | 278.0  | 263.9  | 251.4  | 245.2  | 238.9  | 234.3  | 229.6  | 224.9  |
| 72.5°  | 259.2  | 254.6  | 245.2  | 232.7  | 221.8  | 212.4  | 207.7  | 199.9  | 195.2  | 187.4  | 184.3  |
| 75°    | 214.0  | 206.1  | 201.5  | 190.5  | 181.2  | 173.3  | 167.1  | 157.7  | 151.5  | 148.4  | 146.8  |
| 77.5°  | 168.7  | 165.5  | 159.3  | 149.9  | 145.2  | 137.4  | 128.1  | 124.9  | 121.8  | 121.8  | 120.3  |
| 80°    | 126.5  | 121.8  | 117.1  | 109.3  | 104.6  | 98.4   | 98.4   | 98.4   | 96.8   | 98.4   | 96.8   |
| 82.5°  | 85.9   | 82.8   | 79.6   | 75.0   | 73.4   | 73.4   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   |
| 85°    | 50.0   | 50.0   | 50.0   | 51.5   | 50.0   | 50.0   | 51.5   | 53.1   | 51.5   | 51.5   | 50.0   |
| 87.5°  | 23.4   | 23.4   | 25.0   | 25.0   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 28.1   |
| 90°    | 9.7    | 10.8   | 12.2   | 15.0   | 17.9   | 20.7   | 23.5   | 24.4   | 25.2   | 26.1   | 27.0   |
| 92.5°  | 17.3   | 16.7   | 17.7   | 19.6   | 21.6   | 23.5   | 25.5   | 27.0   | 28.5   | 30.0   | 31.5   |
| 95°    | 24.1   | 19.6   | 20.8   | 23.2   | 25.6   | 28.0   | 30.4   | 31.9   | 33.4   | 34.9   | 36.4   |
| 97.5°  | 84.4   | 81.3   | 75.8   | 64.7   | 53.6   | 42.5   | 31.4   | 33.1   | 34.9   | 36.6   | 38.3   |
| 100°   | 183.0  | 185.2  | 168.2  | 134.2  | 100.3  | 66.3   | 32.3   | 34.1   | 35.8   | 37.6   | 39.3   |
| 102.5° | 241.6  | 243.0  | 224.1  | 186.2  | 148.3  | 110.4  | 72.5   | 65.3   | 58.1   | 51.0   | 43.8   |
| 105°   | 301.5  | 302.7  | 292.9  | 273.3  | 253.8  | 234.2  | 214.6  | 176.1  | 137.5  | 99.0   | 60.5   |
| 107.5° | 365.4  | 366.4  | 368.0  | 371.3  | 374.6  | 377.8  | 381.1  | 347.6  | 314.0  | 280.5  | 247.0  |
| 110°   | 430.2  | 431.1  | 432.3  | 434.7  | 437.1  | 439.5  | 441.9  | 434.7  | 427.5  | 420.3  | 413.1  |

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.0  | 492.8  | 494.0  | 496.4  | 498.8  | 501.2  | 503.6  | 505.6  | 507.5  | 509.5  | 511.4  |
| 115°   | 552.9  | 553.6  | 554.6  | 556.5  | 558.5  | 560.4  | 562.4  | 564.6  | 566.8  | 568.9  | 571.1  |
| 117.5° | 614.5  | 615.3  | 615.8  | 616.9  | 618.0  | 619.1  | 620.2  | 621.9  | 623.7  | 625.4  | 627.1  |
| 120°   | 672.1  | 673.1  | 673.4  | 674.1  | 674.7  | 675.4  | 676.0  | 677.8  | 679.5  | 681.3  | 683.0  |
| 122.5° | 727.2  | 728.0  | 728.4  | 729.3  | 730.2  | 731.0  | 731.9  | 733.0  | 734.1  | 735.2  | 736.3  |
| 125°   | 779.0  | 779.9  | 780.3  | 781.2  | 782.1  | 782.9  | 783.8  | 784.2  | 784.7  | 785.1  | 785.6  |
| 127.5° | 829.9  | 830.8  | 831.3  | 832.4  | 833.5  | 834.6  | 835.7  | 836.4  | 837.0  | 837.7  | 838.4  |
| 130°   | 877.0  | 877.9  | 878.3  | 879.2  | 880.1  | 880.9  | 881.8  | 882.7  | 883.5  | 884.4  | 885.3  |
| 132.5° | 922.0  | 922.9  | 923.2  | 923.9  | 924.6  | 925.2  | 925.9  | 926.8  | 927.6  | 928.5  | 929.4  |
| 135°   | 966.4  | 967.0  | 967.4  | 968.3  | 969.2  | 970.0  | 970.9  | 971.6  | 972.2  | 972.9  | 973.6  |
| 137.5° | 1007.3 | 1008.2 | 1008.4 | 1008.8 | 1009.3 | 1009.7 | 1010.1 | 1011.2 | 1012.3 | 1013.4 | 1014.5 |
| 140°   | 1044.7 | 1045.4 | 1045.7 | 1046.4 | 1047.0 | 1047.7 | 1048.3 | 1049.2 | 1050.1 | 1051.0 | 1051.9 |
| 142.5° | 1081.0 | 1081.7 | 1082.0 | 1082.7 | 1083.3 | 1084.0 | 1084.6 | 1085.2 | 1085.9 | 1086.5 | 1087.2 |
| 145°   | 1115.2 | 1116.0 | 1116.2 | 1116.6 | 1117.1 | 1117.5 | 1117.9 | 1118.3 | 1118.8 | 1119.2 | 1119.7 |
| 147.5° | 1145.8 | 1146.3 | 1146.5 | 1147.0 | 1147.4 | 1147.9 | 1148.3 | 1148.7 | 1149.1 | 1149.6 | 1150.0 |
| 150°   | 1173.5 | 1173.8 | 1174.0 | 1174.4 | 1174.9 | 1175.3 | 1175.7 | 1176.1 | 1176.6 | 1177.0 | 1177.5 |
| 152.5° | 1198.2 | 1198.3 | 1198.4 | 1198.6 | 1198.8 | 1199.0 | 1199.2 | 1200.1 | 1201.0 | 1201.9 | 1202.8 |
| 155°   | 1220.0 | 1219.8 | 1219.9 | 1220.1 | 1220.4 | 1220.6 | 1220.8 | 1221.9 | 1223.0 | 1224.1 | 1225.2 |
| 157.5° | 1241.4 | 1241.4 | 1241.3 | 1241.1 | 1240.8 | 1240.6 | 1240.4 | 1241.7 | 1243.0 | 1244.3 | 1245.6 |
| 160°   | 1258.1 | 1258.0 | 1257.9 | 1257.7 | 1257.4 | 1257.2 | 1257.0 | 1258.3 | 1259.6 | 1260.9 | 1262.2 |
| 162.5° | 1273.0 | 1272.7 | 1272.6 | 1272.4 | 1272.1 | 1271.9 | 1271.7 | 1273.2 | 1274.8 | 1276.3 | 1277.8 |
| 165°   | 1285.8 | 1285.5 | 1285.4 | 1285.2 | 1284.9 | 1284.7 | 1284.5 | 1286.2 | 1288.0 | 1289.7 | 1291.4 |
| 167.5° | 1295.7 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1297.0 | 1298.8 | 1300.5 | 1302.2 |
| 170°   | 1304.5 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1305.8 | 1307.6 | 1309.3 | 1311.0 |
| 172.5° | 1309.5 | 1309.0 | 1309.1 | 1309.3 | 1309.5 | 1309.7 | 1309.9 | 1311.7 | 1313.4 | 1315.2 | 1316.9 |
| 175°   | 1314.4 | 1313.9 | 1314.0 | 1314.2 | 1314.4 | 1314.6 | 1314.8 | 1316.3 | 1317.9 | 1319.4 | 1320.9 |
| 177.5° | 1316.3 | 1315.8 | 1315.9 | 1316.1 | 1316.4 | 1316.6 | 1316.8 | 1318.5 | 1320.3 | 1322.0 | 1323.7 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1724.1 | 1725.7 | 1721.0 | 1711.6 | 1710.1 | 1713.2 | 1722.5 | 1719.4 | 1711.6 | 1725.7 | 1713.2 |
| 5°     | 1628.8 | 1621.0 | 1617.9 | 1621.0 | 1611.7 | 1607.0 | 1616.4 | 1611.7 | 1616.4 | 1617.9 | 1622.6 |
| 7.5°   | 1536.7 | 1538.3 | 1528.9 | 1530.5 | 1518.0 | 1521.1 | 1521.1 | 1521.1 | 1525.8 | 1528.9 | 1535.1 |
| 10°    | 1457.1 | 1460.2 | 1449.2 | 1450.8 | 1441.4 | 1435.2 | 1439.9 | 1449.2 | 1449.2 | 1449.2 | 1452.4 |
| 12.5°  | 1393.0 | 1379.0 | 1371.2 | 1369.6 | 1358.7 | 1355.5 | 1364.9 | 1368.0 | 1375.9 | 1375.9 | 1380.5 |
| 15°    | 1313.4 | 1310.3 | 1304.0 | 1304.0 | 1277.5 | 1283.7 | 1286.8 | 1297.8 | 1313.4 | 1300.9 | 1304.0 |
| 17.5°  | 1241.5 | 1233.7 | 1225.9 | 1222.8 | 1219.7 | 1210.3 | 1222.8 | 1221.2 | 1230.6 | 1232.2 | 1236.9 |
| 20°    | 1177.5 | 1171.3 | 1155.7 | 1157.2 | 1160.3 | 1146.3 | 1154.1 | 1154.1 | 1163.5 | 1172.8 | 1183.8 |
| 22.5°  | 1115.0 | 1108.8 | 1101.0 | 1104.1 | 1094.7 | 1091.6 | 1091.6 | 1099.4 | 1110.4 | 1118.2 | 1116.6 |
| 25°    | 1066.6 | 1055.7 | 1051.0 | 1046.3 | 1041.6 | 1044.8 | 1040.1 | 1047.9 | 1055.7 | 1060.4 | 1055.7 |
| 27.5°  | 1012.0 | 1007.3 | 997.9  | 993.2  | 985.4  | 988.6  | 991.7  | 997.9  | 1002.6 | 1002.6 | 1007.3 |
| 30°    | 958.9  | 952.6  | 949.5  | 944.8  | 944.8  | 938.6  | 940.1  | 946.4  | 951.1  | 955.8  | 962.0  |
| 32.5°  | 907.3  | 902.7  | 898.0  | 898.0  | 894.8  | 893.3  | 891.7  | 901.1  | 901.1  | 910.5  | 910.5  |
| 35°    | 865.2  | 857.4  | 857.4  | 849.6  | 852.7  | 851.1  | 848.0  | 854.2  | 855.8  | 862.1  | 860.5  |
| 37.5°  | 818.3  | 818.3  | 815.2  | 807.4  | 801.1  | 802.7  | 810.5  | 810.5  | 815.2  | 813.6  | 818.3  |
| 40°    | 771.5  | 768.4  | 768.4  | 763.7  | 762.1  | 760.5  | 762.1  | 763.7  | 771.5  | 769.9  | 771.5  |
| 42.5°  | 724.6  | 726.2  | 718.4  | 718.4  | 718.4  | 713.7  | 715.3  | 716.8  | 719.9  | 723.1  | 727.7  |
| 45°    | 679.3  | 676.2  | 674.7  | 671.5  | 668.4  | 670.0  | 668.4  | 674.7  | 673.1  | 676.2  | 680.9  |
| 47.5°  | 630.9  | 626.2  | 624.7  | 618.4  | 618.4  | 621.6  | 620.0  | 624.7  | 626.2  | 630.9  | 627.8  |
| 50°    | 584.1  | 577.8  | 573.1  | 574.7  | 565.3  | 568.5  | 568.5  | 573.1  | 577.8  | 579.4  | 582.5  |
| 52.5°  | 529.4  | 527.9  | 526.3  | 518.5  | 516.9  | 515.4  | 516.9  | 518.5  | 524.7  | 529.4  | 531.0  |
| 55°    | 476.3  | 474.8  | 465.4  | 462.3  | 457.6  | 457.6  | 460.7  | 462.3  | 473.2  | 474.8  | 481.0  |
| 57.5°  | 427.9  | 423.2  | 412.3  | 410.7  | 410.7  | 410.7  | 406.0  | 412.3  | 415.4  | 423.2  | 423.2  |
| 60°    | 374.8  | 374.8  | 365.4  | 365.4  | 367.0  | 365.4  | 365.4  | 367.0  | 367.0  | 373.2  | 376.4  |
| 62.5°  | 332.6  | 331.1  | 331.1  | 328.0  | 326.4  | 328.0  | 326.4  | 326.4  | 328.0  | 332.6  | 337.3  |
| 65°    | 295.2  | 293.6  | 292.0  | 290.5  | 287.4  | 287.4  | 288.9  | 292.0  | 292.0  | 295.2  | 296.7  |
| 67.5°  | 259.2  | 259.2  | 256.1  | 256.1  | 254.6  | 253.0  | 254.6  | 253.0  | 259.2  | 259.2  | 260.8  |
| 70°    | 223.3  | 221.8  | 217.1  | 215.5  | 210.8  | 212.4  | 212.4  | 217.1  | 218.6  | 221.8  | 224.9  |
| 72.5°  | 179.6  | 179.6  | 176.5  | 173.3  | 174.9  | 171.8  | 171.8  | 173.3  | 173.3  | 178.0  | 179.6  |
| 75°    | 148.4  | 145.2  | 143.7  | 145.2  | 143.7  | 146.8  | 143.7  | 143.7  | 146.8  | 146.8  | 146.8  |
| 77.5°  | 121.8  | 121.8  | 120.3  | 120.3  | 121.8  | 120.3  | 121.8  | 121.8  | 121.8  | 120.3  | 121.8  |
| 80°    | 99.9   | 98.4   | 98.4   | 98.4   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   |
| 82.5°  | 75.0   | 75.0   | 73.4   | 75.0   | 75.0   | 73.4   | 75.0   | 73.4   | 73.4   | 75.0   | 75.0   |
| 85°    | 50.0   | 53.1   | 50.0   | 50.0   | 51.5   | 51.5   | 53.1   | 51.5   | 53.1   | 50.0   | 51.5   |
| 87.5°  | 26.5   | 28.1   | 28.1   | 26.5   | 26.5   | 28.1   | 28.1   | 28.1   | 29.7   | 26.5   | 28.1   |
| 90°    | 27.4   | 27.6   | 28.1   | 28.5   | 29.0   | 29.4   | 29.0   | 28.5   | 28.1   | 27.6   | 27.4   |
| 92.5°  | 32.3   | 32.4   | 32.6   | 32.9   | 33.1   | 33.3   | 33.1   | 32.9   | 32.6   | 32.4   | 32.3   |
| 95°    | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   |
| 97.5°  | 39.2   | 39.3   | 39.5   | 39.8   | 40.0   | 40.2   | 40.0   | 39.8   | 39.5   | 39.3   | 39.2   |
| 100°   | 40.2   | 40.3   | 40.5   | 40.8   | 41.0   | 41.2   | 41.0   | 40.8   | 40.5   | 40.3   | 40.2   |
| 102.5° | 40.2   | 40.4   | 40.8   | 41.3   | 41.7   | 42.1   | 41.7   | 41.3   | 40.8   | 40.4   | 40.2   |
| 105°   | 41.2   | 41.4   | 41.8   | 42.3   | 42.7   | 43.1   | 42.7   | 42.3   | 41.8   | 41.4   | 41.2   |
| 107.5° | 230.2  | 215.9  | 187.4  | 158.9  | 130.4  | 101.9  | 130.4  | 158.9  | 187.4  | 215.9  | 230.2  |
| 110°   | 409.5  | 393.9  | 362.8  | 331.7  | 300.5  | 269.4  | 300.5  | 331.7  | 362.8  | 393.9  | 409.5  |

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 512.4  | 512.2  | 511.8  | 511.3  | 510.9  | 510.5  | 510.9  | 511.3  | 511.8  | 512.2  | 512.4  |
| 115°   | 572.2  | 572.6  | 573.5  | 574.4  | 575.2  | 576.1  | 575.2  | 574.4  | 573.5  | 572.6  | 572.2  |
| 117.5° | 628.0  | 628.1  | 628.3  | 628.6  | 628.8  | 629.0  | 628.8  | 628.6  | 628.3  | 628.1  | 628.0  |
| 120°   | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  | 683.9  |
| 122.5° | 736.8  | 736.9  | 737.1  | 737.4  | 737.6  | 737.8  | 737.6  | 737.4  | 737.1  | 736.9  | 736.8  |
| 125°   | 785.8  | 786.0  | 786.4  | 786.9  | 787.3  | 787.7  | 787.3  | 786.9  | 786.4  | 786.0  | 785.8  |
| 127.5° | 838.7  | 838.5  | 838.0  | 837.6  | 837.1  | 836.7  | 837.1  | 837.6  | 838.0  | 838.5  | 838.7  |
| 130°   | 885.7  | 885.5  | 885.0  | 884.6  | 884.1  | 883.7  | 884.1  | 884.6  | 885.0  | 885.5  | 885.7  |
| 132.5° | 929.8  | 929.5  | 928.8  | 928.2  | 927.5  | 926.9  | 927.5  | 928.2  | 928.8  | 929.5  | 929.8  |
| 135°   | 973.9  | 973.6  | 972.9  | 972.2  | 971.6  | 970.9  | 971.6  | 972.2  | 972.9  | 973.6  | 973.9  |
| 137.5° | 1015.0 | 1014.8 | 1014.4 | 1013.9 | 1013.5 | 1013.1 | 1013.5 | 1013.9 | 1014.4 | 1014.8 | 1015.0 |
| 140°   | 1052.3 | 1052.1 | 1051.6 | 1051.2 | 1050.7 | 1050.3 | 1050.7 | 1051.2 | 1051.6 | 1052.1 | 1052.3 |
| 142.5° | 1087.5 | 1087.2 | 1086.5 | 1085.9 | 1085.2 | 1084.6 | 1085.2 | 1085.9 | 1086.5 | 1087.2 | 1087.5 |
| 145°   | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 | 1119.9 |
| 147.5° | 1150.2 | 1149.7 | 1148.6 | 1147.5 | 1146.4 | 1145.3 | 1146.4 | 1147.5 | 1148.6 | 1149.7 | 1150.2 |
| 150°   | 1177.7 | 1177.4 | 1176.7 | 1176.0 | 1175.4 | 1174.7 | 1175.4 | 1176.0 | 1176.7 | 1177.4 | 1177.7 |
| 152.5° | 1203.2 | 1202.7 | 1201.6 | 1200.5 | 1199.4 | 1198.3 | 1199.4 | 1200.5 | 1201.6 | 1202.7 | 1203.2 |
| 155°   | 1225.7 | 1225.0 | 1223.7 | 1222.4 | 1221.1 | 1219.8 | 1221.1 | 1222.4 | 1223.7 | 1225.0 | 1225.7 |
| 157.5° | 1246.3 | 1245.4 | 1243.7 | 1241.9 | 1240.2 | 1238.4 | 1240.2 | 1241.9 | 1243.7 | 1245.4 | 1246.3 |
| 160°   | 1262.9 | 1262.1 | 1260.6 | 1259.1 | 1257.6 | 1256.1 | 1257.6 | 1259.1 | 1260.6 | 1262.1 | 1262.9 |
| 162.5° | 1278.6 | 1277.9 | 1276.6 | 1275.3 | 1274.0 | 1272.7 | 1274.0 | 1275.3 | 1276.6 | 1277.9 | 1278.6 |
| 165°   | 1292.3 | 1291.5 | 1290.0 | 1288.5 | 1287.0 | 1285.5 | 1287.0 | 1288.5 | 1290.0 | 1291.5 | 1292.3 |
| 167.5° | 1303.1 | 1302.2 | 1300.5 | 1298.8 | 1297.0 | 1295.3 | 1297.0 | 1298.8 | 1300.5 | 1302.2 | 1303.1 |
| 170°   | 1311.9 | 1311.0 | 1309.3 | 1307.6 | 1305.8 | 1304.1 | 1305.8 | 1307.6 | 1309.3 | 1311.0 | 1311.9 |
| 172.5° | 1317.8 | 1316.8 | 1314.9 | 1312.9 | 1311.0 | 1309.0 | 1311.0 | 1312.9 | 1314.9 | 1316.8 | 1317.8 |
| 175°   | 1321.7 | 1320.8 | 1319.1 | 1317.4 | 1315.6 | 1313.9 | 1315.6 | 1317.4 | 1319.1 | 1320.8 | 1321.7 |
| 177.5° | 1324.6 | 1323.5 | 1321.3 | 1319.2 | 1317.0 | 1314.8 | 1317.0 | 1319.2 | 1321.3 | 1323.5 | 1324.6 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1725.7 | 1731.9 | 1725.7 | 1713.2 | 1725.7 | 1733.5 | 1741.3 | 1753.8 | 1760.0 | 1760.0 | 1769.4 |
| 5°     | 1627.3 | 1639.8 | 1635.1 | 1632.0 | 1644.5 | 1652.3 | 1664.8 | 1680.4 | 1697.6 | 1708.5 | 1721.0 |
| 7.5°   | 1539.8 | 1547.6 | 1555.4 | 1555.4 | 1567.9 | 1585.1 | 1603.9 | 1622.6 | 1644.5 | 1660.1 | 1669.4 |
| 10°    | 1463.3 | 1469.6 | 1474.2 | 1480.5 | 1499.2 | 1518.0 | 1543.0 | 1566.4 | 1585.1 | 1602.3 | 1617.9 |
| 12.5°  | 1389.9 | 1399.3 | 1410.2 | 1414.9 | 1428.9 | 1452.4 | 1475.8 | 1503.9 | 1533.6 | 1550.8 | 1566.4 |
| 15°    | 1319.6 | 1324.3 | 1336.8 | 1350.9 | 1363.4 | 1388.3 | 1418.0 | 1447.7 | 1472.7 | 1499.2 | 1513.3 |
| 17.5°  | 1247.8 | 1249.4 | 1282.1 | 1274.3 | 1314.9 | 1338.4 | 1354.0 | 1382.1 | 1422.7 | 1444.6 | 1466.4 |
| 20°    | 1177.5 | 1193.1 | 1207.2 | 1215.0 | 1236.9 | 1263.4 | 1308.7 | 1330.6 | 1363.4 | 1383.7 | 1402.4 |
| 22.5°  | 1122.9 | 1146.3 | 1146.3 | 1165.0 | 1176.0 | 1200.9 | 1233.7 | 1275.9 | 1311.8 | 1325.9 | 1352.4 |
| 25°    | 1074.4 | 1085.4 | 1104.1 | 1110.4 | 1130.7 | 1152.5 | 1174.4 | 1219.7 | 1258.7 | 1277.5 | 1296.2 |
| 27.5°  | 1012.0 | 1026.0 | 1051.0 | 1051.0 | 1077.6 | 1101.0 | 1127.5 | 1157.2 | 1196.3 | 1222.8 | 1243.1 |
| 30°    | 963.6  | 977.6  | 988.6  | 1005.7 | 1016.7 | 1038.5 | 1085.4 | 1107.2 | 1141.6 | 1165.0 | 1190.0 |
| 32.5°  | 918.3  | 929.2  | 938.6  | 957.3  | 969.8  | 994.8  | 1019.8 | 1058.8 | 1088.5 | 1110.4 | 1136.9 |
| 35°    | 868.3  | 879.2  | 891.7  | 905.8  | 924.5  | 947.9  | 971.4  | 1004.2 | 1033.8 | 1054.1 | 1076.0 |
| 37.5°  | 821.4  | 829.3  | 848.0  | 857.4  | 873.0  | 894.8  | 924.5  | 958.9  | 985.4  | 1001.0 | 1022.9 |
| 40°    | 776.2  | 782.4  | 796.5  | 813.6  | 824.6  | 841.8  | 873.0  | 902.7  | 935.5  | 954.2  | 971.4  |
| 42.5°  | 727.7  | 735.6  | 748.1  | 765.2  | 782.4  | 801.1  | 818.3  | 852.7  | 882.4  | 898.0  | 916.7  |
| 45°    | 685.6  | 690.3  | 699.6  | 716.8  | 734.0  | 748.1  | 774.6  | 805.8  | 833.9  | 846.4  | 866.7  |
| 47.5°  | 635.6  | 640.3  | 654.3  | 662.2  | 680.9  | 699.6  | 726.2  | 757.4  | 782.4  | 794.9  | 813.6  |
| 50°    | 584.1  | 588.8  | 598.1  | 615.3  | 627.8  | 648.1  | 671.5  | 698.1  | 729.3  | 746.5  | 757.4  |
| 52.5°  | 534.1  | 543.5  | 551.3  | 565.3  | 580.9  | 601.3  | 623.1  | 648.1  | 674.7  | 691.8  | 704.3  |
| 55°    | 484.1  | 491.9  | 501.3  | 509.1  | 527.9  | 546.6  | 571.6  | 595.0  | 618.4  | 634.0  | 648.1  |
| 57.5°  | 427.9  | 438.8  | 448.2  | 463.8  | 477.9  | 493.5  | 521.6  | 540.3  | 568.5  | 579.4  | 591.9  |
| 60°    | 379.5  | 390.4  | 398.2  | 410.7  | 423.2  | 443.5  | 462.3  | 485.7  | 509.1  | 523.2  | 538.8  |
| 62.5°  | 338.9  | 343.6  | 348.3  | 360.8  | 373.2  | 392.0  | 410.7  | 434.2  | 459.1  | 466.9  | 479.4  |
| 65°    | 298.3  | 303.0  | 310.8  | 321.7  | 331.1  | 342.0  | 362.3  | 381.1  | 404.5  | 417.0  | 421.7  |
| 67.5°  | 263.9  | 268.6  | 270.2  | 278.0  | 285.8  | 298.3  | 309.2  | 328.0  | 349.8  | 357.6  | 367.0  |
| 70°    | 224.9  | 232.7  | 234.3  | 240.5  | 243.6  | 251.4  | 263.9  | 278.0  | 295.2  | 309.2  | 317.0  |
| 72.5°  | 179.6  | 190.5  | 193.6  | 203.0  | 207.7  | 215.5  | 224.9  | 235.8  | 246.7  | 253.0  | 259.2  |
| 75°    | 146.8  | 149.9  | 151.5  | 159.3  | 167.1  | 178.0  | 182.7  | 189.0  | 198.3  | 206.1  | 212.4  |
| 77.5°  | 121.8  | 123.4  | 124.9  | 124.9  | 126.5  | 132.7  | 142.1  | 149.9  | 156.2  | 159.3  | 164.0  |
| 80°    | 98.4   | 96.8   | 96.8   | 98.4   | 98.4   | 98.4   | 101.5  | 112.4  | 115.6  | 123.4  | 121.8  |
| 82.5°  | 76.5   | 73.4   | 75.0   | 73.4   | 73.4   | 73.4   | 73.4   | 75.0   | 75.0   | 79.6   | 82.8   |
| 85°    | 50.0   | 51.5   | 50.0   | 50.0   | 48.4   | 50.0   | 48.4   | 48.4   | 46.9   | 46.9   | 45.3   |
| 87.5°  | 26.5   | 28.1   | 26.5   | 26.5   | 25.0   | 26.5   | 25.0   | 25.0   | 23.4   | 23.4   | 20.3   |
| 90°    | 27.0   | 26.1   | 25.2   | 24.4   | 23.5   | 20.7   | 17.9   | 15.0   | 12.2   | 10.8   | 9.7    |
| 92.5°  | 31.5   | 30.0   | 28.5   | 27.0   | 25.5   | 23.5   | 21.6   | 19.6   | 17.7   | 16.7   | 17.3   |
| 95°    | 36.4   | 34.9   | 33.4   | 31.9   | 30.4   | 28.0   | 25.6   | 23.2   | 20.8   | 19.6   | 24.1   |
| 97.5°  | 38.3   | 36.6   | 34.9   | 33.1   | 31.4   | 42.5   | 53.6   | 64.7   | 75.8   | 81.3   | 84.4   |
| 100°   | 39.3   | 37.6   | 35.8   | 34.1   | 32.3   | 66.3   | 100.3  | 134.2  | 168.2  | 185.2  | 183.0  |
| 102.5° | 43.8   | 51.0   | 58.1   | 65.3   | 72.5   | 110.4  | 148.3  | 186.2  | 224.1  | 243.0  | 241.6  |
| 105°   | 60.5   | 99.0   | 137.5  | 176.1  | 214.6  | 234.2  | 253.8  | 273.3  | 292.9  | 302.7  | 301.5  |
| 107.5° | 247.0  | 280.5  | 314.0  | 347.6  | 381.1  | 377.8  | 374.6  | 371.3  | 368.0  | 366.4  | 365.4  |
| 110°   | 413.1  | 420.3  | 427.5  | 434.7  | 441.9  | 439.5  | 437.1  | 434.7  | 432.3  | 431.1  | 430.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 511.4  | 509.5  | 507.5  | 505.6  | 503.6  | 501.2  | 498.8  | 496.4  | 494.0  | 492.8  | 492.0  |
| 115°   | 571.1  | 568.9  | 566.8  | 564.6  | 562.4  | 560.4  | 558.5  | 556.5  | 554.6  | 553.6  | 552.9  |
| 117.5° | 627.1  | 625.4  | 623.7  | 621.9  | 620.2  | 619.1  | 618.0  | 616.9  | 615.8  | 615.3  | 614.5  |
| 120°   | 683.0  | 681.3  | 679.5  | 677.8  | 676.0  | 675.4  | 674.7  | 674.1  | 673.4  | 673.1  | 672.1  |
| 122.5° | 736.3  | 735.2  | 734.1  | 733.0  | 731.9  | 731.0  | 730.2  | 729.3  | 728.4  | 728.0  | 727.2  |
| 125°   | 785.6  | 785.1  | 784.7  | 784.2  | 783.8  | 782.9  | 782.1  | 781.2  | 780.3  | 779.9  | 779.0  |
| 127.5° | 838.4  | 837.7  | 837.0  | 836.4  | 835.7  | 834.6  | 833.5  | 832.4  | 831.3  | 830.8  | 829.9  |
| 130°   | 885.3  | 884.4  | 883.5  | 882.7  | 881.8  | 880.9  | 880.1  | 879.2  | 878.3  | 877.9  | 877.0  |
| 132.5° | 929.4  | 928.5  | 927.6  | 926.8  | 925.9  | 925.2  | 924.6  | 923.9  | 923.2  | 922.9  | 922.0  |
| 135°   | 973.6  | 972.9  | 972.2  | 971.6  | 970.9  | 970.0  | 969.2  | 968.3  | 967.4  | 967.0  | 966.4  |
| 137.5° | 1014.5 | 1013.4 | 1012.3 | 1011.2 | 1010.1 | 1009.7 | 1009.3 | 1008.8 | 1008.4 | 1008.2 | 1007.3 |
| 140°   | 1051.9 | 1051.0 | 1050.1 | 1049.2 | 1048.3 | 1047.7 | 1047.0 | 1046.4 | 1045.7 | 1045.4 | 1044.7 |
| 142.5° | 1087.2 | 1086.5 | 1085.9 | 1085.2 | 1084.6 | 1084.0 | 1083.3 | 1082.7 | 1082.0 | 1081.7 | 1081.0 |
| 145°   | 1119.7 | 1119.2 | 1118.8 | 1118.3 | 1117.9 | 1117.5 | 1117.1 | 1116.6 | 1116.2 | 1116.0 | 1115.2 |
| 147.5° | 1150.0 | 1149.6 | 1149.1 | 1148.7 | 1148.3 | 1147.9 | 1147.4 | 1147.0 | 1146.5 | 1146.3 | 1145.8 |
| 150°   | 1177.5 | 1177.0 | 1176.6 | 1176.1 | 1175.7 | 1175.3 | 1174.9 | 1174.4 | 1174.0 | 1173.8 | 1173.5 |
| 152.5° | 1202.8 | 1201.9 | 1201.0 | 1200.1 | 1199.2 | 1199.0 | 1198.8 | 1198.6 | 1198.4 | 1198.3 | 1198.2 |
| 155°   | 1225.2 | 1224.1 | 1223.0 | 1221.9 | 1220.8 | 1220.6 | 1220.4 | 1220.1 | 1219.9 | 1219.8 | 1220.0 |
| 157.5° | 1245.6 | 1244.3 | 1243.0 | 1241.7 | 1240.4 | 1240.6 | 1240.8 | 1241.1 | 1241.3 | 1241.4 | 1241.4 |
| 160°   | 1262.2 | 1260.9 | 1259.6 | 1258.3 | 1257.0 | 1257.2 | 1257.4 | 1257.7 | 1257.9 | 1258.0 | 1258.1 |
| 162.5° | 1277.8 | 1276.3 | 1274.8 | 1273.2 | 1271.7 | 1271.9 | 1272.1 | 1272.4 | 1272.6 | 1272.7 | 1273.0 |
| 165°   | 1291.4 | 1289.7 | 1288.0 | 1286.2 | 1284.5 | 1284.7 | 1284.9 | 1285.2 | 1285.4 | 1285.5 | 1285.8 |
| 167.5° | 1302.2 | 1300.5 | 1298.8 | 1297.0 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.7 |
| 170°   | 1311.0 | 1309.3 | 1307.6 | 1305.8 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.1 | 1304.5 |
| 172.5° | 1316.9 | 1315.2 | 1313.4 | 1311.7 | 1309.9 | 1309.7 | 1309.5 | 1309.3 | 1309.1 | 1309.0 | 1309.5 |
| 175°   | 1320.9 | 1319.4 | 1317.9 | 1316.3 | 1314.8 | 1314.6 | 1314.4 | 1314.2 | 1314.0 | 1313.9 | 1314.4 |
| 177.5° | 1323.7 | 1322.0 | 1320.3 | 1318.5 | 1316.8 | 1316.6 | 1316.4 | 1316.1 | 1315.9 | 1315.8 | 1316.3 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1824.1 | 1824.1 | 1824.1 | 1824.1 |
| 2.5°   | 1777.2 | 1788.1 | 1810.0 | 1828.7 |
| 5°     | 1739.7 | 1756.9 | 1789.7 | 1822.5 |
| 7.5°   | 1694.4 | 1721.0 | 1763.1 | 1808.4 |
| 10°    | 1650.7 | 1685.1 | 1736.6 | 1789.7 |
| 12.5°  | 1607.0 | 1642.9 | 1697.6 | 1766.3 |
| 15°    | 1555.4 | 1592.9 | 1658.5 | 1741.3 |
| 17.5°  | 1510.2 | 1560.1 | 1619.5 | 1702.2 |
| 20°    | 1461.7 | 1499.2 | 1575.7 | 1663.2 |
| 22.5°  | 1400.8 | 1463.3 | 1535.1 | 1627.3 |
| 25°    | 1352.4 | 1407.1 | 1478.9 | 1583.6 |
| 27.5°  | 1293.1 | 1357.1 | 1444.6 | 1536.7 |
| 30°    | 1244.7 | 1297.8 | 1379.0 | 1489.9 |
| 32.5°  | 1188.4 | 1250.9 | 1335.2 | 1444.6 |
| 35°    | 1138.5 | 1191.6 | 1271.2 | 1382.1 |
| 37.5°  | 1079.1 | 1136.9 | 1225.9 | 1324.3 |
| 40°    | 1027.6 | 1083.8 | 1168.1 | 1260.3 |
| 42.5°  | 965.1  | 1024.5 | 1108.8 | 1186.9 |
| 45°    | 915.2  | 969.8  | 1037.0 | 1108.8 |
| 47.5°  | 854.2  | 912.0  | 977.6  | 1027.6 |
| 50°    | 799.6  | 852.7  | 904.2  | 946.4  |
| 52.5°  | 740.2  | 788.7  | 835.5  | 866.7  |
| 55°    | 685.6  | 723.1  | 760.5  | 782.4  |
| 57.5°  | 621.6  | 657.5  | 688.7  | 701.2  |
| 60°    | 565.3  | 595.0  | 615.3  | 629.4  |
| 62.5°  | 506.0  | 527.9  | 543.5  | 551.3  |
| 65°    | 448.2  | 463.8  | 471.6  | 479.4  |
| 67.5°  | 388.9  | 402.9  | 407.6  | 417.0  |
| 70°    | 326.4  | 342.0  | 345.1  | 349.8  |
| 72.5°  | 279.5  | 279.5  | 285.8  | 292.0  |
| 75°    | 223.3  | 226.4  | 229.6  | 229.6  |
| 77.5°  | 174.9  | 174.9  | 178.0  | 179.6  |
| 80°    | 128.1  | 129.6  | 129.6  | 128.1  |
| 82.5°  | 87.5   | 90.6   | 87.5   | 85.9   |
| 85°    | 48.4   | 54.7   | 51.5   | 51.5   |
| 87.5°  | 20.3   | 20.3   | 23.4   | 20.3   |
| 90°    | 7.5    | 5.4    | 3.2    | 1.0    |
| 92.5°  | 18.6   | 19.9   | 21.2   | 22.5   |
| 95°    | 33.0   | 41.9   | 50.9   | 59.8   |
| 97.5°  | 90.5   | 96.6   | 102.7  | 108.8  |
| 100°   | 178.7  | 174.3  | 170.0  | 165.6  |
| 102.5° | 238.7  | 235.9  | 233.0  | 230.2  |
| 105°   | 299.1  | 296.8  | 294.4  | 292.0  |
| 107.5° | 363.5  | 361.5  | 359.6  | 357.6  |
| 110°   | 428.5  | 426.8  | 425.0  | 423.3  |

TEST NUMBER: P1010819

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 490.5  | 489.0  | 487.5  | 486.0  |
| 115°   | 551.6  | 550.3  | 549.0  | 547.7  |
| 117.5° | 613.0  | 611.5  | 609.9  | 608.4  |
| 120°   | 670.2  | 668.2  | 666.3  | 664.3  |
| 122.5° | 725.7  | 724.2  | 722.6  | 721.1  |
| 125°   | 777.3  | 775.6  | 773.8  | 772.1  |
| 127.5° | 828.2  | 826.5  | 824.7  | 823.0  |
| 130°   | 875.3  | 873.5  | 871.8  | 870.0  |
| 132.5° | 920.3  | 918.6  | 916.8  | 915.1  |
| 135°   | 965.1  | 963.8  | 962.5  | 961.2  |
| 137.5° | 1005.6 | 1003.8 | 1002.1 | 1000.3 |
| 140°   | 1043.4 | 1042.1 | 1040.8 | 1039.5 |
| 142.5° | 1079.7 | 1078.4 | 1077.1 | 1075.8 |
| 145°   | 1113.7 | 1112.2 | 1110.6 | 1109.1 |
| 147.5° | 1144.7 | 1143.6 | 1142.5 | 1141.4 |
| 150°   | 1172.8 | 1172.1 | 1171.5 | 1170.8 |
| 152.5° | 1198.0 | 1197.7 | 1197.5 | 1197.3 |
| 155°   | 1220.5 | 1220.9 | 1221.4 | 1221.8 |
| 157.5° | 1241.4 | 1241.4 | 1241.4 | 1241.4 |
| 160°   | 1258.3 | 1258.6 | 1258.8 | 1259.0 |
| 162.5° | 1273.7 | 1274.4 | 1275.0 | 1275.7 |
| 165°   | 1286.5 | 1287.1 | 1287.8 | 1288.4 |
| 167.5° | 1296.6 | 1297.5 | 1298.3 | 1299.2 |
| 170°   | 1305.4 | 1306.3 | 1307.1 | 1308.0 |
| 172.5° | 1310.6 | 1311.7 | 1312.8 | 1313.9 |
| 175°   | 1315.5 | 1316.6 | 1317.7 | 1318.8 |
| 177.5° | 1317.4 | 1318.5 | 1319.6 | 1320.7 |
| 180°   | 1318.8 | 1318.8 | 1318.8 | 1318.8 |

(END OF REPORT)