

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: P1010852

Luminaire Tested: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010852  
REPORT IS A COMBINATION OF REPORTS P993048 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K  
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}  
{m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

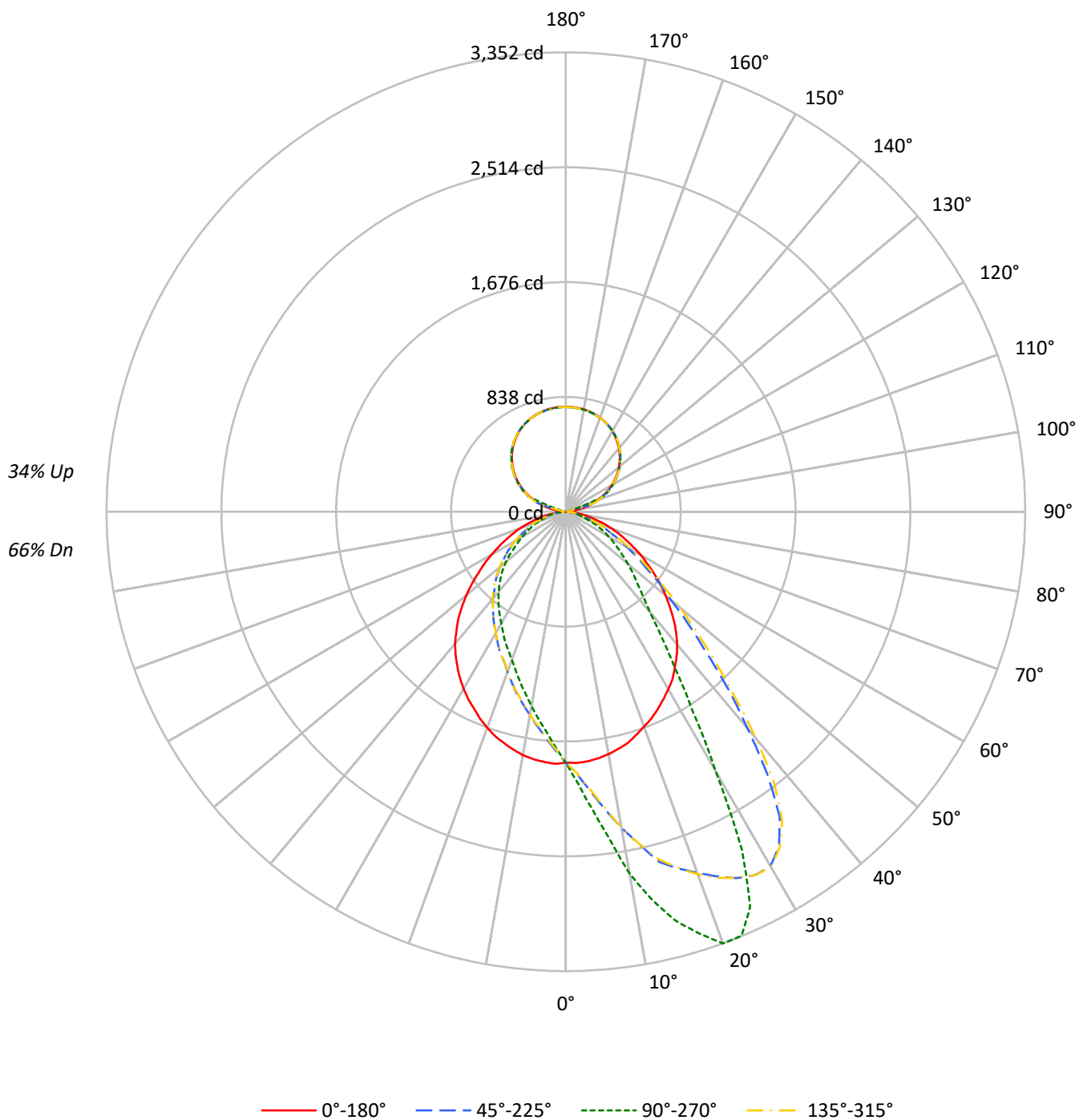
Lumens per Lamp: N/A  
Luminaire Lumens: 6889.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 76.7  
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

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1010852

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |    | 50 |    |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 | 66 | 66 |
| 1   | 102 | 98  | 94  | 91  | 96  | 93  | 89  | 86  | 82 | 80 | 78 | 73 | 71 | 69 | 64 | 63 | 62 | 57 | 57 |
| 2   | 94  | 87  | 81  | 76  | 88  | 82  | 77  | 72  | 73 | 69 | 66 | 65 | 62 | 59 | 57 | 55 | 53 | 49 | 49 |
| 3   | 86  | 77  | 70  | 64  | 81  | 73  | 66  | 61  | 65 | 60 | 56 | 58 | 54 | 51 | 51 | 49 | 46 | 43 | 43 |
| 4   | 79  | 69  | 61  | 55  | 74  | 65  | 58  | 53  | 58 | 53 | 48 | 52 | 48 | 44 | 46 | 43 | 40 | 37 | 37 |
| 5   | 73  | 62  | 54  | 48  | 69  | 58  | 51  | 46  | 53 | 47 | 42 | 47 | 43 | 39 | 42 | 39 | 36 | 33 | 33 |
| 6   | 68  | 56  | 48  | 42  | 64  | 53  | 46  | 40  | 48 | 42 | 37 | 43 | 38 | 35 | 39 | 35 | 32 | 29 | 29 |
| 7   | 63  | 50  | 43  | 37  | 59  | 48  | 41  | 36  | 44 | 38 | 33 | 39 | 34 | 31 | 35 | 31 | 28 | 26 | 26 |
| 8   | 58  | 46  | 38  | 33  | 55  | 44  | 37  | 32  | 40 | 34 | 30 | 36 | 31 | 28 | 33 | 29 | 26 | 24 | 24 |
| 9   | 54  | 42  | 35  | 30  | 51  | 40  | 34  | 29  | 37 | 31 | 27 | 33 | 29 | 25 | 30 | 26 | 23 | 21 | 21 |
| 10  | 51  | 39  | 32  | 27  | 48  | 37  | 31  | 26  | 34 | 28 | 25 | 31 | 26 | 23 | 28 | 24 | 21 | 19 | 19 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 19695 | 19695 | 19695 | 19695 |
| 5°  | 19710 | 22682 | 19760 | 16828 |
| 10° | 19535 | 27382 | 19620 | 14698 |
| 15° | 19335 | 31076 | 19335 | 12961 |
| 20° | 18938 | 33520 | 19044 | 11497 |
| 25° | 18648 | 31847 | 18611 | 10490 |
| 30° | 18310 | 22066 | 18272 | 9507  |
| 35° | 17904 | 14167 | 17823 | 8763  |
| 40° | 17399 | 10004 | 17312 | 8026  |
| 45° | 16517 | 8006  | 16495 | 7307  |
| 50° | 15437 | 6697  | 15386 | 6466  |
| 55° | 14220 | 5519  | 14108 | 5482  |
| 60° | 13026 | 4562  | 12896 | 4662  |
| 65° | 11625 | 3651  | 11702 | 3951  |
| 70° | 10334 | 2537  | 10610 | 3194  |
| 75° | 8760  | 1882  | 9118  | 2457  |
| 80° | 6976  | 1248  | 7568  | 1841  |
| 85° | 4966  | 590   | 5417  | 1146  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 26293 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.7  | 2.6       |
| 10°-20°   | 562.5  | 8.2       |
| 20°-30°   | 885.9  | 12.9      |
| 30°-40°   | 921.2  | 13.4      |
| 40°-50°   | 788.1  | 11.4      |
| 50°-60°   | 600.8  | 8.7       |
| 60°-70°   | 384.9  | 5.6       |
| 70°-80°   | 184.4  | 2.7       |
| 80°-90°   | 50.0   | 0.7       |
| 90°-100°  | 27.0   | 0.4       |
| 100°-110° | 130.4  | 1.9       |
| 110°-120° | 319.5  | 4.6       |
| 120°-130° | 405.6  | 5.9       |
| 130°-140° | 433.3  | 6.3       |
| 140°-150° | 405.2  | 5.9       |
| 150°-160° | 326.8  | 4.7       |
| 160°-170° | 210.9  | 3.1       |
| 170°-180° | 72.7   | 1.1       |
| 0°-30°    | 1628.0 | 23.6      |
| 0°-40°    | 2549.2 | 37.0      |
| 0°-60°    | 3938.1 | 57.2      |
| 0°-90°    | 4557.5 | 66.2      |
| 90°-120°  | 476.9  | 6.9       |
| 90°-150°  | 1721.0 | 25.0      |
| 90°-180°  | 2331.0 | 33.8      |
| 0°-180°   | 6889.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1830 | 1830 | 1830 | 1830 | 1830 |      |
| 5°   | 1828 | 2173 | 1833 | 1612 | 1828 | 173  |
| 15°  | 1747 | 3088 | 1747 | 1288 | 1747 | 491  |
| 25°  | 1588 | 3182 | 1585 | 1048 | 1588 | 732  |
| 35°  | 1386 | 1380 | 1380 | 854  | 1386 | 868  |
| 45°  | 1112 | 736  | 1111 | 672  | 1112 | 856  |
| 55°  | 785  | 462  | 779  | 459  | 785  | 703  |
| 65°  | 481  | 266  | 484  | 288  | 481  | 480  |
| 75°  | 230  | 113  | 240  | 147  | 230  | 249  |
| 85°  | 52   | 27   | 56   | 52   | 52   | 58   |
| 90°  | 1    | 17   | 1    | 17   | 1    | 5    |
| 95°  | 35   | 22   | 35   | 22   | 35   | 41   |
| 105° | 169  | 25   | 169  | 25   | 169  | 180  |
| 115° | 318  | 334  | 318  | 334  | 318  | 314  |
| 125° | 448  | 457  | 448  | 457  | 448  | 400  |
| 135° | 557  | 563  | 557  | 563  | 557  | 429  |
| 145° | 643  | 649  | 643  | 649  | 643  | 403  |
| 155° | 708  | 707  | 708  | 707  | 708  | 326  |
| 165° | 747  | 746  | 747  | 746  | 747  | 211  |
| 175° | 765  | 762  | 765  | 762  | 765  | 73   |
| 180° | 765  | 765  | 765  | 765  | 765  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1834.4 | 1846.9 | 1856.3 | 1862.6 | 1878.2 | 1887.6 | 1895.5 | 1909.6 | 1909.6 | 1912.7 | 1919.0 |
| 5°     | 1828.1 | 1854.7 | 1873.5 | 1898.6 | 1931.5 | 1947.2 | 1969.1 | 1987.9 | 2014.5 | 2028.6 | 2042.7 |
| 7.5°   | 1814.0 | 1851.6 | 1890.8 | 1928.4 | 1976.9 | 2008.3 | 2030.2 | 2078.8 | 2113.2 | 2155.5 | 2188.4 |
| 10°    | 1795.2 | 1846.9 | 1897.0 | 1955.0 | 2020.8 | 2067.8 | 2100.7 | 2164.9 | 2230.7 | 2290.2 | 2340.4 |
| 12.5°  | 1771.7 | 1834.4 | 1906.4 | 1976.9 | 2069.4 | 2116.3 | 2169.6 | 2249.5 | 2343.5 | 2418.7 | 2486.0 |
| 15°    | 1746.7 | 1818.7 | 1900.2 | 1986.3 | 2102.3 | 2168.0 | 2244.8 | 2341.9 | 2446.9 | 2555.0 | 2647.4 |
| 17.5°  | 1707.5 | 1798.3 | 1889.2 | 2014.5 | 2150.8 | 2190.0 | 2255.8 | 2388.9 | 2518.9 | 2616.1 | 2728.9 |
| 20°    | 1668.3 | 1770.2 | 1884.5 | 1997.3 | 2144.5 | 2235.4 | 2296.5 | 2437.5 | 2576.9 | 2694.4 | 2802.5 |
| 22.5°  | 1632.3 | 1738.8 | 1857.9 | 2000.4 | 2138.3 | 2229.1 | 2305.9 | 2453.1 | 2614.5 | 2746.1 | 2879.2 |
| 25°    | 1588.4 | 1704.4 | 1835.9 | 1970.7 | 2138.3 | 2207.2 | 2291.8 | 2462.5 | 2633.3 | 2785.2 | 2949.7 |
| 27.5°  | 1541.4 | 1658.9 | 1788.9 | 1926.8 | 2080.3 | 2182.1 | 2265.2 | 2448.4 | 2656.8 | 2819.7 | 2988.9 |
| 30°    | 1494.4 | 1615.1 | 1740.4 | 1864.1 | 2036.5 | 2133.6 | 2229.1 | 2431.2 | 2669.3 | 2855.7 | 2985.8 |
| 32.5°  | 1449.0 | 1550.8 | 1674.6 | 1795.2 | 1966.0 | 2072.5 | 2180.6 | 2414.0 | 2674.0 | 2830.7 | 2893.3 |
| 35°    | 1386.4 | 1492.9 | 1593.1 | 1721.6 | 1893.9 | 1998.9 | 2125.7 | 2412.4 | 2653.7 | 2750.8 | 2719.5 |
| 37.5°  | 1328.4 | 1417.7 | 1513.2 | 1627.6 | 1804.6 | 1940.9 | 2072.5 | 2371.7 | 2586.3 | 2592.6 | 2415.6 |
| 40°    | 1264.2 | 1337.8 | 1417.7 | 1538.3 | 1729.4 | 1864.1 | 2006.7 | 2309.0 | 2464.1 | 2371.7 | 2060.0 |
| 42.5°  | 1190.5 | 1256.3 | 1319.0 | 1436.5 | 1644.8 | 1795.2 | 1948.7 | 2230.7 | 2287.1 | 2074.1 | 1749.8 |
| 45°    | 1112.2 | 1165.5 | 1223.4 | 1347.2 | 1555.5 | 1704.4 | 1857.9 | 2110.1 | 2052.1 | 1751.4 | 1442.8 |
| 47.5°  | 1030.8 | 1076.2 | 1132.6 | 1245.4 | 1460.0 | 1611.9 | 1757.6 | 1937.8 | 1790.5 | 1467.8 | 1209.3 |
| 50°    | 949.3  | 985.3  | 1040.2 | 1156.1 | 1362.9 | 1500.7 | 1635.4 | 1752.9 | 1546.1 | 1259.5 | 999.4  |
| 52.5°  | 869.4  | 897.6  | 954.0  | 1052.7 | 1253.2 | 1384.8 | 1481.9 | 1527.3 | 1317.4 | 1040.2 | 867.8  |
| 55°    | 784.8  | 816.1  | 853.7  | 954.0  | 1152.9 | 1250.1 | 1314.3 | 1312.7 | 1096.6 | 881.9  | 717.5  |
| 57.5°  | 703.4  | 731.6  | 764.5  | 864.7  | 1026.1 | 1091.9 | 1146.7 | 1120.1 | 914.8  | 722.2  | 615.6  |
| 60°    | 631.3  | 647.0  | 683.0  | 767.6  | 889.8  | 946.2  | 977.5  | 932.1  | 747.2  | 609.4  | 509.1  |
| 62.5°  | 553.0  | 568.6  | 598.4  | 678.3  | 753.5  | 783.3  | 809.9  | 751.9  | 617.2  | 496.6  | 435.5  |
| 65°    | 480.9  | 501.3  | 520.1  | 584.3  | 625.0  | 661.1  | 657.9  | 609.4  | 482.5  | 404.2  | 354.0  |
| 67.5°  | 418.3  | 426.1  | 441.8  | 480.9  | 499.7  | 526.3  | 527.9  | 473.1  | 388.5  | 329.0  | 299.2  |
| 70°    | 350.9  | 358.7  | 369.7  | 388.5  | 401.0  | 407.3  | 404.2  | 355.6  | 292.9  | 256.9  | 230.3  |
| 72.5°  | 292.9  | 291.4  | 299.2  | 299.2  | 311.7  | 310.2  | 300.8  | 263.2  | 222.4  | 192.7  | 177.0  |
| 75°    | 230.3  | 231.8  | 233.4  | 230.3  | 225.6  | 219.3  | 211.5  | 183.3  | 156.7  | 142.6  | 128.5  |
| 77.5°  | 180.1  | 177.0  | 178.6  | 167.6  | 161.4  | 155.1  | 144.1  | 130.0  | 108.1  | 105.0  | 98.7   |
| 80°    | 128.5  | 126.9  | 125.3  | 120.6  | 106.5  | 100.3  | 92.4   | 84.6   | 79.9   | 76.8   | 75.2   |
| 82.5°  | 86.2   | 86.2   | 83.0   | 73.6   | 65.8   | 61.1   | 59.5   | 56.4   | 51.7   | 51.7   | 50.1   |
| 85°    | 51.7   | 50.1   | 47.0   | 37.6   | 32.9   | 32.9   | 32.9   | 32.9   | 29.8   | 29.8   | 28.2   |
| 87.5°  | 20.4   | 18.8   | 14.1   | 14.1   | 12.5   | 12.5   | 12.5   | 11.0   | 11.0   | 9.4    | 9.4    |
| 90°    | 0.6    | 1.8    | 3.1    | 4.3    | 5.6    | 6.2    | 7.0    | 8.7    | 10.3   | 12.0   | 13.6   |
| 92.5°  | 13.1   | 12.3   | 11.6   | 10.8   | 10.1   | 9.7    | 10.3   | 11.4   | 12.5   | 13.7   | 14.8   |
| 95°    | 34.7   | 29.5   | 24.3   | 19.2   | 14.0   | 11.4   | 12.1   | 13.5   | 14.8   | 16.2   | 17.6   |
| 97.5°  | 63.1   | 59.6   | 56.0   | 52.5   | 49.0   | 47.2   | 44.0   | 37.5   | 31.1   | 24.6   | 18.2   |
| 100°   | 96.0   | 98.5   | 101.1  | 103.6  | 106.1  | 107.4  | 97.5   | 77.8   | 58.1   | 38.4   | 18.7   |
| 102.5° | 133.5  | 135.1  | 136.8  | 138.4  | 140.1  | 140.9  | 129.9  | 107.9  | 86.0   | 64.0   | 42.0   |
| 105°   | 169.3  | 170.7  | 172.1  | 173.5  | 174.9  | 175.6  | 169.9  | 158.5  | 147.2  | 135.8  | 124.4  |
| 107.5° | 207.4  | 208.5  | 209.7  | 210.8  | 211.9  | 212.5  | 213.4  | 215.3  | 217.2  | 219.1  | 221.0  |
| 110°   | 245.5  | 246.5  | 247.5  | 248.5  | 249.5  | 250.0  | 250.7  | 252.1  | 253.4  | 254.8  | 256.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 281.8 | 282.7 | 283.6 | 284.5 | 285.4 | 285.8 | 286.5 | 287.9 | 289.2 | 290.6 | 292.0 |
| 115°   | 317.6 | 318.4 | 319.1 | 319.9 | 320.6 | 321.0 | 321.6 | 322.7 | 323.8 | 325.0 | 326.1 |
| 117.5° | 352.8 | 353.7 | 354.6 | 355.5 | 356.4 | 356.8 | 357.1 | 357.8 | 358.4 | 359.1 | 359.7 |
| 120°   | 385.2 | 386.3 | 387.5 | 388.6 | 389.7 | 390.3 | 390.5 | 390.9 | 391.2 | 391.6 | 392.0 |
| 122.5° | 418.2 | 419.1 | 420.0 | 420.9 | 421.8 | 422.2 | 422.4 | 422.9 | 423.4 | 423.9 | 424.4 |
| 125°   | 447.7 | 448.7 | 449.7 | 450.8 | 451.8 | 452.3 | 452.5 | 453.0 | 453.5 | 454.0 | 454.5 |
| 127.5° | 477.3 | 478.3 | 479.3 | 480.3 | 481.3 | 481.8 | 482.1 | 482.8 | 483.4 | 484.1 | 484.7 |
| 130°   | 504.5 | 505.5 | 506.5 | 507.6 | 508.6 | 509.1 | 509.4 | 509.9 | 510.4 | 510.9 | 511.4 |
| 132.5° | 530.7 | 531.7 | 532.7 | 533.7 | 534.7 | 535.2 | 535.4 | 535.8 | 536.1 | 536.5 | 536.9 |
| 135°   | 557.4 | 558.2 | 558.9 | 559.7 | 560.4 | 560.8 | 561.1 | 561.6 | 562.1 | 562.6 | 563.1 |
| 137.5° | 580.1 | 581.1 | 582.1 | 583.2 | 584.2 | 584.7 | 584.8 | 585.1 | 585.3 | 585.6 | 585.8 |
| 140°   | 602.8 | 603.6 | 604.3 | 605.1 | 605.8 | 606.2 | 606.4 | 606.8 | 607.2 | 607.6 | 608.0 |
| 142.5° | 623.9 | 624.7 | 625.4 | 626.2 | 626.9 | 627.3 | 627.5 | 627.9 | 628.2 | 628.6 | 629.0 |
| 145°   | 643.2 | 644.1 | 645.0 | 645.9 | 646.8 | 647.2 | 647.3 | 647.6 | 647.8 | 648.1 | 648.3 |
| 147.5° | 661.9 | 662.5 | 663.2 | 663.8 | 664.5 | 664.8 | 664.9 | 665.2 | 665.4 | 665.7 | 665.9 |
| 150°   | 679.0 | 679.4 | 679.8 | 680.1 | 680.5 | 680.7 | 680.8 | 681.1 | 681.3 | 681.6 | 681.8 |
| 152.5° | 694.3 | 694.4 | 694.6 | 694.7 | 694.8 | 694.9 | 695.0 | 695.1 | 695.2 | 695.4 | 695.5 |
| 155°   | 708.5 | 708.3 | 708.0 | 707.8 | 707.5 | 707.4 | 707.5 | 707.6 | 707.7 | 707.9 | 708.0 |
| 157.5° | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 | 719.8 | 719.7 | 719.6 | 719.4 | 719.3 |
| 160°   | 730.1 | 730.0 | 729.8 | 729.7 | 729.6 | 729.5 | 729.4 | 729.3 | 729.2 | 729.1 | 729.0 |
| 162.5° | 739.8 | 739.4 | 739.0 | 738.7 | 738.3 | 738.1 | 738.0 | 737.9 | 737.8 | 737.6 | 737.5 |
| 165°   | 747.2 | 746.8 | 746.4 | 746.1 | 745.7 | 745.5 | 745.4 | 745.3 | 745.2 | 745.0 | 744.9 |
| 167.5° | 753.4 | 752.9 | 752.4 | 751.9 | 751.4 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 |
| 170°   | 758.5 | 758.0 | 757.5 | 757.0 | 756.5 | 756.2 | 756.2 | 756.2 | 756.2 | 756.2 | 756.2 |
| 172.5° | 761.9 | 761.3 | 760.7 | 760.0 | 759.4 | 759.1 | 759.2 | 759.3 | 759.4 | 759.6 | 759.7 |
| 175°   | 764.8 | 764.2 | 763.5 | 762.9 | 762.2 | 761.9 | 762.0 | 762.1 | 762.2 | 762.4 | 762.5 |
| 177.5° | 765.9 | 765.3 | 764.7 | 764.0 | 763.4 | 763.1 | 763.2 | 763.3 | 763.4 | 763.5 | 763.6 |
| 180°   | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1931.5 | 1931.5 | 1945.6 | 1959.7 | 1951.9 | 1956.6 | 1973.8 | 1967.5 | 1980.1 | 1978.5 | 1983.2 |
| 5°     | 2077.2 | 2094.4 | 2108.5 | 2138.3 | 2143.0 | 2138.3 | 2168.0 | 2175.9 | 2190.0 | 2172.7 | 2180.6 |
| 7.5°   | 2241.7 | 2277.7 | 2312.2 | 2356.0 | 2370.1 | 2373.3 | 2388.9 | 2410.9 | 2429.6 | 2395.2 | 2412.4 |
| 10°    | 2401.5 | 2456.3 | 2526.8 | 2565.9 | 2600.4 | 2612.9 | 2625.5 | 2639.6 | 2661.5 | 2681.9 | 2666.2 |
| 12.5°  | 2573.8 | 2653.7 | 2721.0 | 2791.5 | 2833.8 | 2829.1 | 2865.1 | 2874.5 | 2891.8 | 2896.5 | 2902.7 |
| 15°    | 2714.8 | 2827.5 | 2869.8 | 2974.8 | 2984.2 | 3015.5 | 3056.3 | 3092.3 | 3097.0 | 3087.6 | 3087.6 |
| 17.5°  | 2849.5 | 2946.6 | 3021.8 | 3106.4 | 3123.6 | 3150.2 | 3201.9 | 3219.2 | 3225.4 | 3223.9 | 3223.9 |
| 20°    | 2959.1 | 3023.4 | 3150.2 | 3220.7 | 3248.9 | 3283.4 | 3319.4 | 3341.4 | 3346.1 | 3352.3 | 3342.9 |
| 22.5°  | 3031.2 | 3128.3 | 3231.7 | 3289.7 | 3313.2 | 3325.7 | 3349.2 | 3355.5 | 3347.6 | 3349.2 | 3350.8 |
| 25°    | 3087.6 | 3183.1 | 3245.8 | 3261.5 | 3259.9 | 3244.2 | 3227.0 | 3197.2 | 3194.1 | 3181.6 | 3156.5 |
| 27.5°  | 3103.2 | 3139.3 | 3131.4 | 3067.2 | 3003.0 | 2996.7 | 2893.3 | 2836.9 | 2772.7 | 2782.1 | 2746.1 |
| 30°    | 3018.7 | 2971.7 | 2860.4 | 2697.5 | 2630.2 | 2520.5 | 2404.6 | 2284.0 | 2237.0 | 2185.3 | 2280.8 |
| 32.5°  | 2811.9 | 2644.3 | 2446.9 | 2235.4 | 2122.6 | 2025.5 | 1901.7 | 1814.0 | 1763.9 | 1721.6 | 1803.0 |
| 35°    | 2500.1 | 2238.5 | 1976.9 | 1776.4 | 1684.0 | 1596.3 | 1480.3 | 1436.5 | 1373.8 | 1380.1 | 1387.9 |
| 37.5°  | 2099.1 | 1810.9 | 1613.5 | 1416.1 | 1355.0 | 1319.0 | 1234.4 | 1167.0 | 1145.1 | 1138.8 | 1138.8 |
| 40°    | 1723.2 | 1486.6 | 1311.2 | 1156.1 | 1109.1 | 1079.3 | 1012.0 | 980.6  | 957.1  | 950.9  | 958.7  |
| 42.5°  | 1425.5 | 1223.4 | 1087.2 | 983.8  | 950.9  | 913.3  | 885.1  | 845.9  | 841.2  | 830.2  | 844.3  |
| 45°    | 1196.8 | 1021.4 | 919.5  | 844.3  | 816.1  | 802.1  | 770.7  | 747.2  | 737.8  | 736.3  | 747.2  |
| 47.5°  | 1015.1 | 878.8  | 789.5  | 742.5  | 720.6  | 706.5  | 679.9  | 670.5  | 661.1  | 664.2  | 659.5  |
| 50°    | 852.2  | 750.4  | 692.4  | 650.1  | 636.0  | 621.9  | 604.7  | 595.3  | 590.6  | 590.6  | 589.0  |
| 52.5°  | 731.6  | 647.0  | 609.4  | 570.2  | 563.9  | 556.1  | 537.3  | 531.0  | 523.2  | 521.6  | 527.9  |
| 55°    | 626.6  | 568.6  | 531.0  | 507.5  | 501.3  | 485.6  | 477.8  | 470.0  | 465.3  | 462.1  | 463.7  |
| 57.5°  | 535.7  | 491.9  | 466.8  | 446.5  | 435.5  | 429.2  | 415.1  | 413.6  | 410.4  | 410.4  | 408.9  |
| 60°    | 460.6  | 429.2  | 399.5  | 386.9  | 379.1  | 371.3  | 369.7  | 360.3  | 355.6  | 358.7  | 357.2  |
| 62.5°  | 390.1  | 365.0  | 347.8  | 333.7  | 329.0  | 322.7  | 318.0  | 314.9  | 310.2  | 311.7  | 311.7  |
| 65°    | 325.8  | 305.5  | 292.9  | 280.4  | 278.8  | 272.6  | 271.0  | 267.9  | 267.9  | 266.3  | 269.4  |
| 67.5°  | 267.9  | 253.8  | 242.8  | 235.0  | 230.3  | 231.8  | 225.6  | 220.9  | 220.9  | 219.3  | 224.0  |
| 70°    | 213.0  | 205.2  | 194.2  | 184.8  | 178.6  | 178.6  | 170.7  | 169.2  | 169.2  | 169.2  | 167.6  |
| 72.5°  | 164.5  | 150.4  | 145.7  | 142.6  | 142.6  | 142.6  | 139.4  | 139.4  | 137.9  | 139.4  | 137.9  |
| 75°    | 122.2  | 120.6  | 117.5  | 115.9  | 115.9  | 114.4  | 112.8  | 112.8  | 112.8  | 112.8  | 112.8  |
| 77.5°  | 95.6   | 95.6   | 92.4   | 90.9   | 90.9   | 90.9   | 89.3   | 89.3   | 87.7   | 87.7   | 87.7   |
| 80°    | 70.5   | 70.5   | 67.4   | 67.4   | 67.4   | 65.8   | 65.8   | 65.8   | 67.4   | 65.8   | 65.8   |
| 82.5°  | 48.6   | 48.6   | 47.0   | 48.6   | 47.0   | 45.4   | 45.4   | 45.4   | 43.9   | 45.4   | 45.4   |
| 85°    | 28.2   | 28.2   | 26.6   | 25.1   | 26.6   | 26.6   | 25.1   | 26.6   | 25.1   | 26.6   | 25.1   |
| 87.5°  | 11.0   | 9.4    | 9.4    | 9.4    | 7.8    | 9.4    | 7.8    | 7.8    | 9.4    | 7.8    | 9.4    |
| 90°    | 14.1   | 14.6   | 15.1   | 15.6   | 15.9   | 16.0   | 16.3   | 16.5   | 16.8   | 17.0   | 16.8   |
| 92.5°  | 15.7   | 16.5   | 17.4   | 18.3   | 18.7   | 18.8   | 18.9   | 19.0   | 19.2   | 19.3   | 19.2   |
| 95°    | 18.5   | 19.4   | 20.3   | 21.2   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   |
| 97.5°  | 19.2   | 20.2   | 21.2   | 22.2   | 22.7   | 22.8   | 22.9   | 23.0   | 23.2   | 23.3   | 23.2   |
| 100°   | 19.7   | 20.7   | 21.8   | 22.8   | 23.3   | 23.4   | 23.5   | 23.6   | 23.8   | 23.9   | 23.8   |
| 102.5° | 37.8   | 33.7   | 29.5   | 25.4   | 23.3   | 23.4   | 23.7   | 23.9   | 24.2   | 24.4   | 24.2   |
| 105°   | 102.1  | 79.7   | 57.4   | 35.1   | 23.9   | 24.0   | 24.3   | 24.5   | 24.8   | 25.0   | 24.8   |
| 107.5° | 201.6  | 182.1  | 162.7  | 143.2  | 133.5  | 125.2  | 108.7  | 92.2   | 75.6   | 59.1   | 75.6   |
| 110°   | 252.0  | 247.9  | 243.7  | 239.6  | 237.5  | 228.5  | 210.4  | 192.3  | 174.3  | 156.2  | 174.3  |



TEST NUMBER: P1010852

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 293.2 | 294.3 | 295.5 | 296.6 | 297.2 | 297.1 | 296.8 | 296.5 | 296.3 | 296.0 | 296.3 |
| 115°   | 327.4 | 328.6 | 329.9 | 331.2 | 331.8 | 332.1 | 332.6 | 333.1 | 333.6 | 334.1 | 333.6 |
| 117.5° | 360.7 | 361.7 | 362.7 | 363.7 | 364.2 | 364.3 | 364.4 | 364.5 | 364.7 | 364.8 | 364.7 |
| 120°   | 393.0 | 394.0 | 395.1 | 396.1 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 |
| 122.5° | 425.0 | 425.7 | 426.3 | 427.0 | 427.3 | 427.4 | 427.5 | 427.6 | 427.7 | 427.8 | 427.7 |
| 125°   | 454.8 | 455.0 | 455.3 | 455.6 | 455.7 | 455.8 | 456.1 | 456.3 | 456.6 | 456.8 | 456.6 |
| 127.5° | 485.1 | 485.5 | 485.8 | 486.2 | 486.4 | 486.3 | 486.0 | 485.7 | 485.5 | 485.2 | 485.5 |
| 130°   | 511.9 | 512.4 | 512.9 | 513.4 | 513.6 | 513.5 | 513.2 | 513.0 | 512.7 | 512.5 | 512.7 |
| 132.5° | 537.4 | 537.9 | 538.4 | 538.9 | 539.2 | 539.0 | 538.6 | 538.3 | 537.9 | 537.5 | 537.9 |
| 135°   | 563.5 | 563.9 | 564.2 | 564.6 | 564.8 | 564.6 | 564.2 | 563.9 | 563.5 | 563.1 | 563.5 |
| 137.5° | 586.4 | 587.0 | 587.7 | 588.3 | 588.6 | 588.5 | 588.2 | 588.0 | 587.7 | 587.5 | 587.7 |
| 140°   | 608.5 | 609.0 | 609.5 | 610.0 | 610.2 | 610.1 | 609.8 | 609.6 | 609.3 | 609.1 | 609.3 |
| 142.5° | 629.4 | 629.8 | 630.1 | 630.5 | 630.7 | 630.5 | 630.1 | 629.8 | 629.4 | 629.0 | 629.4 |
| 145°   | 648.5 | 648.8 | 649.0 | 649.3 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 |
| 147.5° | 666.1 | 666.4 | 666.6 | 666.9 | 667.0 | 666.7 | 666.1 | 665.4 | 664.8 | 664.2 | 664.8 |
| 150°   | 682.1 | 682.3 | 682.6 | 682.9 | 683.0 | 682.8 | 682.4 | 682.0 | 681.6 | 681.2 | 681.6 |
| 152.5° | 696.0 | 696.5 | 697.0 | 697.5 | 697.7 | 697.4 | 696.8 | 696.1 | 695.5 | 694.9 | 695.5 |
| 155°   | 708.6 | 709.2 | 709.9 | 710.5 | 710.8 | 710.4 | 709.7 | 708.9 | 708.2 | 707.4 | 708.2 |
| 157.5° | 720.1 | 720.8 | 721.6 | 722.3 | 722.7 | 722.2 | 721.2 | 720.2 | 719.2 | 718.2 | 719.2 |
| 160°   | 729.8 | 730.5 | 731.3 | 732.0 | 732.4 | 732.0 | 731.1 | 730.2 | 729.3 | 728.4 | 729.3 |
| 162.5° | 738.4 | 739.3 | 740.2 | 741.1 | 741.5 | 741.1 | 740.4 | 739.6 | 738.9 | 738.1 | 738.9 |
| 165°   | 745.9 | 746.9 | 747.9 | 748.9 | 749.4 | 749.0 | 748.1 | 747.2 | 746.4 | 745.5 | 746.4 |
| 167.5° | 752.1 | 753.1 | 754.2 | 755.2 | 755.7 | 755.2 | 754.2 | 753.1 | 752.1 | 751.1 | 752.1 |
| 170°   | 757.2 | 758.2 | 759.3 | 760.3 | 760.8 | 760.3 | 759.3 | 758.2 | 757.2 | 756.2 | 757.2 |
| 172.5° | 760.7 | 761.7 | 762.7 | 763.7 | 764.2 | 763.6 | 762.5 | 761.4 | 760.2 | 759.1 | 760.2 |
| 175°   | 763.4 | 764.3 | 765.2 | 766.1 | 766.5 | 766.0 | 765.0 | 763.9 | 762.9 | 761.9 | 762.9 |
| 177.5° | 764.6 | 765.6 | 766.7 | 767.7 | 768.2 | 767.6 | 766.3 | 765.0 | 763.8 | 762.5 | 763.8 |
| 180°   | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1975.4 | 1966.0 | 1959.7 | 1955.0 | 1950.3 | 1964.4 | 1945.6 | 1925.2 | 1911.1 | 1901.7 | 1898.6 |
| 5°     | 2182.1 | 2161.8 | 2144.5 | 2130.4 | 2133.6 | 2133.6 | 2100.7 | 2064.7 | 2033.3 | 2016.1 | 1997.3 |
| 7.5°   | 2421.8 | 2399.9 | 2365.4 | 2357.6 | 2351.3 | 2312.2 | 2279.3 | 2213.5 | 2174.3 | 2135.1 | 2100.7 |
| 10°    | 2659.9 | 2631.7 | 2598.8 | 2587.9 | 2572.2 | 2523.6 | 2473.5 | 2388.9 | 2340.4 | 2268.3 | 2222.9 |
| 12.5°  | 2882.4 | 2847.9 | 2815.0 | 2807.2 | 2783.7 | 2741.4 | 2655.2 | 2567.5 | 2484.5 | 2407.7 | 2327.8 |
| 15°    | 3068.8 | 3059.4 | 3009.3 | 2977.9 | 2926.2 | 2868.3 | 2849.5 | 2730.4 | 2625.5 | 2545.6 | 2401.5 |
| 17.5°  | 3225.4 | 3181.6 | 3134.6 | 3114.2 | 3093.8 | 3026.5 | 2959.1 | 2836.9 | 2724.2 | 2606.7 | 2514.2 |
| 20°    | 3350.8 | 3302.2 | 3269.3 | 3239.5 | 3230.1 | 3153.4 | 3046.9 | 2938.8 | 2815.0 | 2683.4 | 2562.8 |
| 22.5°  | 3357.0 | 3350.8 | 3328.8 | 3311.6 | 3292.8 | 3242.7 | 3158.1 | 3023.4 | 2891.8 | 2747.7 | 2589.4 |
| 25°    | 3227.0 | 3217.6 | 3280.3 | 3264.6 | 3277.1 | 3258.3 | 3212.9 | 3100.1 | 2946.6 | 2777.4 | 2617.6 |
| 27.5°  | 2835.4 | 2930.9 | 3029.6 | 3064.1 | 3087.6 | 3154.9 | 3176.9 | 3114.2 | 2990.5 | 2810.3 | 2631.7 |
| 30°    | 2302.8 | 2429.6 | 2589.4 | 2675.6 | 2741.4 | 2866.7 | 3029.6 | 3050.0 | 2992.0 | 2847.9 | 2628.6 |
| 32.5°  | 1807.7 | 1923.7 | 2052.1 | 2153.9 | 2241.7 | 2498.6 | 2717.9 | 2876.1 | 2904.3 | 2829.1 | 2636.4 |
| 35°    | 1456.8 | 1507.0 | 1629.2 | 1726.3 | 1845.3 | 2064.7 | 2323.1 | 2578.5 | 2750.8 | 2760.2 | 2612.9 |
| 37.5°  | 1201.5 | 1228.1 | 1334.7 | 1389.5 | 1460.0 | 1652.7 | 1893.9 | 2227.6 | 2495.4 | 2622.3 | 2547.1 |
| 40°    | 994.7  | 1055.8 | 1116.9 | 1148.2 | 1198.4 | 1331.5 | 1563.4 | 1825.0 | 2157.1 | 2392.1 | 2445.3 |
| 42.5°  | 863.1  | 889.8  | 928.9  | 972.8  | 1004.1 | 1120.1 | 1275.1 | 1514.8 | 1814.0 | 2141.4 | 2288.7 |
| 45°    | 761.3  | 770.7  | 811.4  | 839.6  | 872.5  | 954.0  | 1063.7 | 1264.2 | 1527.3 | 1850.0 | 2100.7 |
| 47.5°  | 676.7  | 695.5  | 717.5  | 734.7  | 756.6  | 819.3  | 913.3  | 1059.0 | 1290.8 | 1579.0 | 1848.5 |
| 50°    | 601.5  | 612.5  | 640.7  | 648.5  | 664.2  | 708.1  | 780.1  | 891.3  | 1082.5 | 1312.7 | 1591.6 |
| 52.5°  | 531.0  | 551.4  | 562.4  | 573.3  | 587.4  | 623.5  | 670.5  | 761.3  | 905.4  | 1121.6 | 1358.2 |
| 55°    | 476.2  | 482.5  | 498.1  | 507.5  | 518.5  | 543.6  | 584.3  | 651.7  | 764.5  | 936.8  | 1160.8 |
| 57.5°  | 423.0  | 423.0  | 438.6  | 446.5  | 457.4  | 476.2  | 512.2  | 563.9  | 645.4  | 773.9  | 979.1  |
| 60°    | 366.6  | 368.1  | 380.7  | 390.1  | 393.2  | 412.0  | 441.8  | 482.5  | 545.1  | 639.1  | 806.8  |
| 62.5°  | 316.4  | 324.3  | 330.5  | 333.7  | 344.6  | 355.6  | 380.7  | 408.9  | 452.7  | 535.7  | 654.8  |
| 65°    | 274.1  | 275.7  | 280.4  | 283.5  | 288.2  | 300.8  | 319.6  | 338.4  | 376.0  | 437.1  | 534.2  |
| 67.5°  | 225.6  | 231.8  | 238.1  | 238.1  | 242.8  | 249.1  | 267.9  | 283.5  | 311.7  | 347.8  | 413.6  |
| 70°    | 169.2  | 172.3  | 181.7  | 186.4  | 192.7  | 203.6  | 213.0  | 222.4  | 244.4  | 271.0  | 321.1  |
| 72.5°  | 141.0  | 141.0  | 144.1  | 145.7  | 145.7  | 153.5  | 167.6  | 177.0  | 188.0  | 206.8  | 241.2  |
| 75°    | 112.8  | 112.8  | 117.5  | 115.9  | 119.1  | 122.2  | 123.8  | 130.0  | 136.3  | 150.4  | 170.7  |
| 77.5°  | 89.3   | 90.9   | 90.9   | 92.4   | 92.4   | 94.0   | 95.6   | 98.7   | 101.8  | 109.7  | 119.1  |
| 80°    | 65.8   | 67.4   | 67.4   | 68.9   | 68.9   | 70.5   | 72.1   | 73.6   | 76.8   | 79.9   | 84.6   |
| 82.5°  | 45.4   | 47.0   | 47.0   | 48.6   | 47.0   | 48.6   | 50.1   | 50.1   | 51.7   | 54.8   | 56.4   |
| 85°    | 26.6   | 26.6   | 28.2   | 26.6   | 26.6   | 26.6   | 28.2   | 28.2   | 29.8   | 34.5   | 34.5   |
| 87.5°  | 7.8    | 9.4    | 7.8    | 9.4    | 9.4    | 9.4    | 9.4    | 11.0   | 11.0   | 12.5   | 14.1   |
| 90°    | 16.5   | 16.3   | 16.0   | 15.9   | 15.6   | 15.1   | 14.6   | 14.1   | 13.6   | 12.0   | 10.3   |
| 92.5°  | 19.0   | 18.9   | 18.8   | 18.7   | 18.3   | 17.4   | 16.5   | 15.7   | 14.8   | 13.7   | 12.5   |
| 95°    | 21.6   | 21.6   | 21.6   | 21.6   | 21.2   | 20.3   | 19.4   | 18.5   | 17.6   | 16.2   | 14.8   |
| 97.5°  | 23.0   | 22.9   | 22.8   | 22.7   | 22.2   | 21.2   | 20.2   | 19.2   | 18.2   | 24.6   | 31.1   |
| 100°   | 23.6   | 23.5   | 23.4   | 23.3   | 22.8   | 21.8   | 20.7   | 19.7   | 18.7   | 38.4   | 58.1   |
| 102.5° | 23.9   | 23.7   | 23.4   | 23.3   | 25.4   | 29.5   | 33.7   | 37.8   | 42.0   | 64.0   | 86.0   |
| 105°   | 24.5   | 24.3   | 24.0   | 23.9   | 35.1   | 57.4   | 79.7   | 102.1  | 124.4  | 135.8  | 147.2  |
| 107.5° | 92.2   | 108.7  | 125.2  | 133.5  | 143.2  | 162.7  | 182.1  | 201.6  | 221.0  | 219.1  | 217.2  |
| 110°   | 192.3  | 210.4  | 228.5  | 237.5  | 239.6  | 243.7  | 247.9  | 252.0  | 256.2  | 254.8  | 253.4  |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 296.5 | 296.8 | 297.1 | 297.2  | 296.6 | 295.5 | 294.3 | 293.2 | 292.0 | 290.6 | 289.2 |
| 115°   | 333.1 | 332.6 | 332.1 | 331.8  | 331.2 | 329.9 | 328.6 | 327.4 | 326.1 | 325.0 | 323.8 |
| 117.5° | 364.5 | 364.4 | 364.3 | 364.2  | 363.7 | 362.7 | 361.7 | 360.7 | 359.7 | 359.1 | 358.4 |
| 120°   | 396.6 | 396.6 | 396.6 | 396.6  | 396.1 | 395.1 | 394.0 | 393.0 | 392.0 | 391.6 | 391.2 |
| 122.5° | 427.6 | 427.5 | 427.4 | 427.3  | 427.0 | 426.3 | 425.7 | 425.0 | 424.4 | 423.9 | 423.4 |
| 125°   | 456.3 | 456.1 | 455.8 | 455.7  | 455.6 | 455.3 | 455.0 | 454.8 | 454.5 | 454.0 | 453.5 |
| 127.5° | 485.7 | 486.0 | 486.3 | 486.4  | 486.2 | 485.8 | 485.5 | 485.1 | 484.7 | 484.1 | 483.4 |
| 130°   | 513.0 | 513.2 | 513.5 | 513.6  | 513.4 | 512.9 | 512.4 | 511.9 | 511.4 | 510.9 | 510.4 |
| 132.5° | 538.3 | 538.6 | 539.0 | 539.2  | 538.9 | 538.4 | 537.9 | 537.4 | 536.9 | 536.5 | 536.1 |
| 135°   | 563.9 | 564.2 | 564.6 | 564.8  | 564.6 | 564.2 | 563.9 | 563.5 | 563.1 | 562.6 | 562.1 |
| 137.5° | 588.0 | 588.2 | 588.5 | 588.6  | 588.3 | 587.7 | 587.0 | 586.4 | 585.8 | 585.6 | 585.3 |
| 140°   | 609.6 | 609.8 | 610.1 | 610.2  | 610.0 | 609.5 | 609.0 | 608.5 | 608.0 | 607.6 | 607.2 |
| 142.5° | 629.8 | 630.1 | 630.5 | 630.7  | 630.5 | 630.1 | 629.8 | 629.4 | 629.0 | 628.6 | 628.2 |
| 145°   | 649.4 | 649.4 | 649.4 | 649.4  | 649.3 | 649.0 | 648.8 | 648.5 | 648.3 | 648.1 | 647.8 |
| 147.5° | 665.4 | 666.1 | 666.7 | 667.0  | 666.9 | 666.6 | 666.4 | 666.1 | 665.9 | 665.7 | 665.4 |
| 150°   | 682.0 | 682.4 | 682.8 | 683.0  | 682.9 | 682.6 | 682.3 | 682.1 | 681.8 | 681.6 | 681.3 |
| 152.5° | 696.1 | 696.8 | 697.4 | 697.7  | 697.5 | 697.0 | 696.5 | 696.0 | 695.5 | 695.4 | 695.2 |
| 155°   | 708.9 | 709.7 | 710.4 | 710.8  | 710.5 | 709.9 | 709.2 | 708.6 | 708.0 | 707.9 | 707.7 |
| 157.5° | 720.2 | 721.2 | 722.2 | 722.7  | 722.3 | 721.6 | 720.8 | 720.1 | 719.3 | 719.4 | 719.6 |
| 160°   | 730.2 | 731.1 | 732.0 | 732.4  | 732.0 | 731.3 | 730.5 | 729.8 | 729.0 | 729.1 | 729.2 |
| 162.5° | 739.6 | 740.4 | 741.1 | 741.5  | 741.1 | 740.2 | 739.3 | 738.4 | 737.5 | 737.6 | 737.8 |
| 165°   | 747.2 | 748.1 | 749.0 | 749.4  | 748.9 | 747.9 | 746.9 | 745.9 | 744.9 | 745.0 | 745.2 |
| 167.5° | 753.1 | 754.2 | 755.2 | 755.7  | 755.2 | 754.2 | 753.1 | 752.1 | 751.1 | 751.1 | 751.1 |
| 170°   | 758.2 | 759.3 | 760.3 | 760.8  | 760.3 | 759.3 | 758.2 | 757.2 | 756.2 | 756.2 | 756.2 |
| 172.5° | 761.4 | 762.5 | 763.6 | 764.2  | 763.7 | 762.7 | 761.7 | 760.7 | 759.7 | 759.6 | 759.4 |
| 175°   | 763.9 | 765.0 | 766.0 | 766.5  | 766.1 | 765.2 | 764.3 | 763.4 | 762.5 | 762.4 | 762.2 |
| 177.5° | 765.0 | 766.3 | 767.6 | 768.2  | 767.7 | 766.7 | 765.6 | 764.6 | 763.6 | 763.5 | 763.4 |
| 180°   | 764.8 | 764.8 | 764.8 | 764.8  | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1893.9 | 1886.1 | 1878.2 | 1878.2 | 1861.0 | 1845.3 | 1837.5 | 1840.6 | 1831.2 | 1818.7 | 1806.2 |
| 5°     | 1976.9 | 1945.6 | 1939.3 | 1922.1 | 1898.6 | 1865.7 | 1848.5 | 1832.8 | 1814.0 | 1788.9 | 1765.5 |
| 7.5°   | 2053.7 | 2013.0 | 1991.0 | 1973.8 | 1928.4 | 1882.9 | 1845.3 | 1820.3 | 1787.4 | 1749.8 | 1721.6 |
| 10°    | 2153.9 | 2078.8 | 2055.3 | 2016.1 | 1951.9 | 1887.6 | 1843.8 | 1803.0 | 1757.6 | 1713.8 | 1676.2 |
| 12.5°  | 2233.8 | 2147.7 | 2103.8 | 2064.7 | 1981.6 | 1900.2 | 1826.5 | 1776.4 | 1721.6 | 1673.0 | 1624.5 |
| 15°    | 2324.7 | 2227.6 | 2150.8 | 2103.8 | 1998.9 | 1900.2 | 1817.1 | 1746.7 | 1685.6 | 1626.0 | 1583.7 |
| 17.5°  | 2368.6 | 2246.4 | 2211.9 | 2144.5 | 1992.6 | 1893.9 | 1792.1 | 1716.9 | 1643.3 | 1574.3 | 1524.2 |
| 20°    | 2437.5 | 2294.9 | 2208.8 | 2163.3 | 2028.6 | 1882.9 | 1763.9 | 1677.7 | 1601.0 | 1527.3 | 1474.1 |
| 22.5°  | 2442.2 | 2287.1 | 2230.7 | 2144.5 | 1978.5 | 1850.0 | 1738.8 | 1633.9 | 1544.6 | 1475.6 | 1420.8 |
| 25°    | 2431.2 | 2273.0 | 2194.7 | 2125.7 | 1987.9 | 1831.2 | 1688.7 | 1585.3 | 1497.6 | 1417.7 | 1353.5 |
| 27.5°  | 2426.5 | 2232.3 | 2158.6 | 2089.7 | 1934.6 | 1776.4 | 1658.9 | 1541.4 | 1441.2 | 1370.7 | 1304.9 |
| 30°    | 2420.3 | 2188.4 | 2099.1 | 2019.2 | 1876.7 | 1734.1 | 1593.1 | 1491.3 | 1395.8 | 1306.5 | 1240.7 |
| 32.5°  | 2379.5 | 2128.9 | 2038.0 | 1953.4 | 1799.9 | 1657.4 | 1546.1 | 1438.1 | 1334.7 | 1251.6 | 1192.1 |
| 35°    | 2367.0 | 2074.1 | 1955.0 | 1864.1 | 1713.8 | 1586.9 | 1469.4 | 1380.1 | 1283.0 | 1199.9 | 1129.5 |
| 37.5°  | 2331.0 | 2017.7 | 1889.2 | 1773.3 | 1616.6 | 1496.0 | 1409.9 | 1320.6 | 1226.6 | 1137.3 | 1080.9 |
| 40°    | 2268.3 | 1951.9 | 1806.2 | 1687.1 | 1525.8 | 1403.6 | 1323.7 | 1257.9 | 1165.5 | 1085.6 | 1016.7 |
| 42.5°  | 2175.9 | 1884.5 | 1727.9 | 1602.5 | 1424.0 | 1309.6 | 1243.8 | 1181.1 | 1102.8 | 1019.8 | 963.4  |
| 45°    | 2069.4 | 1795.2 | 1649.5 | 1510.1 | 1328.4 | 1217.2 | 1148.2 | 1110.7 | 1038.6 | 968.1  | 902.3  |
| 47.5°  | 1923.7 | 1702.8 | 1558.7 | 1414.6 | 1229.7 | 1121.6 | 1066.8 | 1029.2 | 979.1  | 902.3  | 849.0  |
| 50°    | 1740.4 | 1583.7 | 1447.5 | 1319.0 | 1132.6 | 1029.2 | 974.4  | 946.2  | 903.9  | 849.0  | 797.4  |
| 52.5°  | 1536.7 | 1445.9 | 1333.1 | 1214.0 | 1033.9 | 936.8  | 886.6  | 864.7  | 833.4  | 781.7  | 737.8  |
| 55°    | 1331.5 | 1292.4 | 1215.6 | 1098.1 | 930.5  | 850.6  | 806.8  | 778.6  | 755.1  | 717.5  | 679.9  |
| 57.5°  | 1148.2 | 1129.5 | 1076.2 | 985.3  | 844.3  | 761.3  | 723.7  | 704.9  | 686.1  | 657.9  | 620.3  |
| 60°    | 958.7  | 979.1  | 924.2  | 878.8  | 750.4  | 678.3  | 645.4  | 625.0  | 615.6  | 590.6  | 567.1  |
| 62.5°  | 794.2  | 813.0  | 781.7  | 747.2  | 656.4  | 592.1  | 571.8  | 553.0  | 546.7  | 524.8  | 501.3  |
| 65°    | 645.4  | 668.9  | 645.4  | 626.6  | 571.8  | 518.5  | 493.4  | 484.1  | 477.8  | 463.7  | 444.9  |
| 67.5°  | 513.8  | 537.3  | 526.3  | 502.8  | 485.6  | 441.8  | 427.7  | 418.3  | 415.1  | 404.2  | 388.5  |
| 70°    | 386.9  | 419.8  | 423.0  | 408.9  | 393.2  | 372.8  | 363.4  | 360.3  | 352.5  | 343.1  | 333.7  |
| 72.5°  | 278.8  | 316.4  | 318.0  | 318.0  | 308.6  | 308.6  | 299.2  | 294.5  | 294.5  | 285.1  | 274.1  |
| 75°    | 205.2  | 230.3  | 233.4  | 236.5  | 241.2  | 245.9  | 239.7  | 239.7  | 238.1  | 228.7  | 224.0  |
| 77.5°  | 136.3  | 158.2  | 166.0  | 177.0  | 183.3  | 183.3  | 186.4  | 189.5  | 186.4  | 181.7  | 178.6  |
| 80°    | 87.7   | 103.4  | 112.8  | 119.1  | 128.5  | 133.2  | 137.9  | 139.4  | 136.3  | 134.7  | 130.0  |
| 82.5°  | 58.0   | 62.7   | 67.4   | 75.2   | 86.2   | 94.0   | 94.0   | 92.4   | 95.6   | 94.0   | 92.4   |
| 85°    | 32.9   | 36.0   | 37.6   | 39.2   | 45.4   | 53.3   | 54.8   | 56.4   | 59.5   | 56.4   | 53.3   |
| 87.5°  | 12.5   | 14.1   | 14.1   | 14.1   | 17.2   | 18.8   | 23.5   | 29.8   | 28.2   | 25.1   | 25.1   |
| 90°    | 8.7    | 7.0    | 6.2    | 5.6    | 4.3    | 3.1    | 1.8    | 0.6    | 1.8    | 3.1    | 4.3    |
| 92.5°  | 11.4   | 10.3   | 9.7    | 10.1   | 10.8   | 11.6   | 12.3   | 13.1   | 12.3   | 11.6   | 10.8   |
| 95°    | 13.5   | 12.1   | 11.4   | 14.0   | 19.2   | 24.3   | 29.5   | 34.7   | 29.5   | 24.3   | 19.2   |
| 97.5°  | 37.5   | 44.0   | 47.2   | 49.0   | 52.5   | 56.0   | 59.6   | 63.1   | 59.6   | 56.0   | 52.5   |
| 100°   | 77.8   | 97.5   | 107.4  | 106.1  | 103.6  | 101.1  | 98.5   | 96.0   | 98.5   | 101.1  | 103.6  |
| 102.5° | 107.9  | 129.9  | 140.9  | 140.1  | 138.4  | 136.8  | 135.1  | 133.5  | 135.1  | 136.8  | 138.4  |
| 105°   | 158.5  | 169.9  | 175.6  | 174.9  | 173.5  | 172.1  | 170.7  | 169.3  | 170.7  | 172.1  | 173.5  |
| 107.5° | 215.3  | 213.4  | 212.5  | 211.9  | 210.8  | 209.7  | 208.5  | 207.4  | 208.5  | 209.7  | 210.8  |
| 110°   | 252.1  | 250.7  | 250.0  | 249.5  | 248.5  | 247.5  | 246.5  | 245.5  | 246.5  | 247.5  | 248.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 287.9 | 286.5 | 285.8  | 285.4 | 284.5 | 283.6 | 282.7 | 281.8 | 282.7 | 283.6 | 284.5 |
| 115°   | 322.7 | 321.6 | 321.0  | 320.6 | 319.9 | 319.1 | 318.4 | 317.6 | 318.4 | 319.1 | 319.9 |
| 117.5° | 357.8 | 357.1 | 356.8  | 356.4 | 355.5 | 354.6 | 353.7 | 352.8 | 353.7 | 354.6 | 355.5 |
| 120°   | 390.9 | 390.5 | 390.3  | 389.7 | 388.6 | 387.5 | 386.3 | 385.2 | 386.3 | 387.5 | 388.6 |
| 122.5° | 422.9 | 422.4 | 422.2  | 421.8 | 420.9 | 420.0 | 419.1 | 418.2 | 419.1 | 420.0 | 420.9 |
| 125°   | 453.0 | 452.5 | 452.3  | 451.8 | 450.8 | 449.7 | 448.7 | 447.7 | 448.7 | 449.7 | 450.8 |
| 127.5° | 482.8 | 482.1 | 481.8  | 481.3 | 480.3 | 479.3 | 478.3 | 477.3 | 478.3 | 479.3 | 480.3 |
| 130°   | 509.9 | 509.4 | 509.1  | 508.6 | 507.6 | 506.5 | 505.5 | 504.5 | 505.5 | 506.5 | 507.6 |
| 132.5° | 535.8 | 535.4 | 535.2  | 534.7 | 533.7 | 532.7 | 531.7 | 530.7 | 531.7 | 532.7 | 533.7 |
| 135°   | 561.6 | 561.1 | 560.8  | 560.4 | 559.7 | 558.9 | 558.2 | 557.4 | 558.2 | 558.9 | 559.7 |
| 137.5° | 585.1 | 584.8 | 584.7  | 584.2 | 583.2 | 582.1 | 581.1 | 580.1 | 581.1 | 582.1 | 583.2 |
| 140°   | 606.8 | 606.4 | 606.2  | 605.8 | 605.1 | 604.3 | 603.6 | 602.8 | 603.6 | 604.3 | 605.1 |
| 142.5° | 627.9 | 627.5 | 627.3  | 626.9 | 626.2 | 625.4 | 624.7 | 623.9 | 624.7 | 625.4 | 626.2 |
| 145°   | 647.6 | 647.3 | 647.2  | 646.8 | 645.9 | 645.0 | 644.1 | 643.2 | 644.1 | 645.0 | 645.9 |
| 147.5° | 665.2 | 664.9 | 664.8  | 664.5 | 663.8 | 663.2 | 662.5 | 661.9 | 662.5 | 663.2 | 663.8 |
| 150°   | 681.1 | 680.8 | 680.7  | 680.5 | 680.1 | 679.8 | 679.4 | 679.0 | 679.4 | 679.8 | 680.1 |
| 152.5° | 695.1 | 695.0 | 694.9  | 694.8 | 694.7 | 694.6 | 694.4 | 694.3 | 694.4 | 694.6 | 694.7 |
| 155°   | 707.6 | 707.5 | 707.4  | 707.5 | 707.8 | 708.0 | 708.3 | 708.5 | 708.3 | 708.0 | 707.8 |
| 157.5° | 719.7 | 719.8 | 719.9  | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 |
| 160°   | 729.3 | 729.4 | 729.5  | 729.6 | 729.7 | 729.8 | 730.0 | 730.1 | 730.0 | 729.8 | 729.7 |
| 162.5° | 737.9 | 738.0 | 738.1  | 738.3 | 738.7 | 739.0 | 739.4 | 739.8 | 739.4 | 739.0 | 738.7 |
| 165°   | 745.3 | 745.4 | 745.5  | 745.7 | 746.1 | 746.4 | 746.8 | 747.2 | 746.8 | 746.4 | 746.1 |
| 167.5° | 751.1 | 751.1 | 751.1  | 751.4 | 751.9 | 752.4 | 752.9 | 753.4 | 752.9 | 752.4 | 751.9 |
| 170°   | 756.2 | 756.2 | 756.2  | 756.5 | 757.0 | 757.5 | 758.0 | 758.5 | 758.0 | 757.5 | 757.0 |
| 172.5° | 759.3 | 759.2 | 759.1  | 759.4 | 760.0 | 760.7 | 761.3 | 761.9 | 761.3 | 760.7 | 760.0 |
| 175°   | 762.1 | 762.0 | 761.9  | 762.2 | 762.9 | 763.5 | 764.2 | 764.8 | 764.2 | 763.5 | 762.9 |
| 177.5° | 763.3 | 763.2 | 763.1  | 763.4 | 764.0 | 764.7 | 765.3 | 765.9 | 765.3 | 764.7 | 764.0 |
| 180°   | 764.8 | 764.8 | 764.8  | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1806.2 | 1798.3 | 1795.2 | 1787.4 | 1768.6 | 1756.1 | 1742.0 | 1732.6 | 1734.1 | 1726.3 | 1731.0 |
| 5°     | 1749.8 | 1748.2 | 1737.3 | 1721.6 | 1695.0 | 1680.9 | 1655.8 | 1643.3 | 1637.0 | 1638.6 | 1629.2 |
| 7.5°   | 1702.8 | 1688.7 | 1680.9 | 1655.8 | 1630.7 | 1601.0 | 1580.6 | 1569.6 | 1560.2 | 1550.8 | 1544.6 |
| 10°    | 1649.5 | 1637.0 | 1624.5 | 1597.8 | 1563.4 | 1535.2 | 1507.0 | 1496.0 | 1481.9 | 1475.6 | 1470.9 |
| 12.5°  | 1593.1 | 1585.3 | 1569.6 | 1538.3 | 1499.1 | 1472.5 | 1439.6 | 1433.4 | 1414.6 | 1402.0 | 1398.9 |
| 15°    | 1541.4 | 1536.7 | 1508.5 | 1472.5 | 1433.4 | 1406.7 | 1378.5 | 1359.7 | 1328.4 | 1334.7 | 1323.7 |
| 17.5°  | 1486.6 | 1466.2 | 1449.0 | 1400.5 | 1381.7 | 1340.9 | 1308.0 | 1298.6 | 1276.7 | 1262.6 | 1248.5 |
| 20°    | 1425.5 | 1413.0 | 1391.1 | 1359.7 | 1314.3 | 1267.3 | 1242.2 | 1226.6 | 1214.0 | 1192.1 | 1185.8 |
| 22.5°  | 1367.6 | 1351.9 | 1333.1 | 1292.4 | 1253.2 | 1214.0 | 1179.6 | 1165.5 | 1149.8 | 1134.1 | 1124.8 |
| 25°    | 1322.1 | 1298.6 | 1278.3 | 1228.1 | 1189.0 | 1156.1 | 1134.1 | 1110.7 | 1088.7 | 1079.3 | 1076.2 |
| 27.5°  | 1251.6 | 1237.5 | 1217.2 | 1170.2 | 1134.1 | 1098.1 | 1077.8 | 1062.1 | 1038.6 | 1027.6 | 1018.2 |
| 30°    | 1206.2 | 1178.0 | 1154.5 | 1116.9 | 1080.9 | 1041.7 | 1022.9 | 1004.1 | 990.0  | 975.9  | 965.0  |
| 32.5°  | 1145.1 | 1123.2 | 1104.4 | 1066.8 | 1030.8 | 994.7  | 974.4  | 946.2  | 938.3  | 927.4  | 914.8  |
| 35°    | 1085.6 | 1071.5 | 1051.1 | 1010.4 | 971.2  | 946.2  | 924.2  | 897.6  | 888.2  | 880.4  | 869.4  |
| 37.5°  | 1029.2 | 1008.8 | 994.7  | 955.6  | 921.1  | 891.3  | 874.1  | 852.2  | 845.9  | 836.5  | 828.7  |
| 40°    | 980.6  | 960.3  | 946.2  | 907.0  | 871.0  | 839.6  | 828.7  | 806.8  | 797.4  | 786.4  | 781.7  |
| 42.5°  | 925.8  | 908.6  | 889.8  | 861.6  | 824.0  | 792.7  | 770.7  | 758.2  | 745.7  | 741.0  | 731.6  |
| 45°    | 867.8  | 852.2  | 838.1  | 806.8  | 767.6  | 745.7  | 726.9  | 709.6  | 700.2  | 692.4  | 686.1  |
| 47.5°  | 817.7  | 803.6  | 784.8  | 750.4  | 719.0  | 698.7  | 679.9  | 662.6  | 653.2  | 643.8  | 636.0  |
| 50°    | 759.8  | 751.9  | 731.6  | 698.7  | 668.9  | 645.4  | 628.2  | 612.5  | 606.2  | 595.3  | 582.7  |
| 52.5°  | 708.1  | 694.0  | 676.7  | 650.1  | 623.5  | 595.3  | 571.8  | 562.4  | 551.4  | 545.1  | 534.2  |
| 55°    | 647.0  | 637.6  | 618.8  | 595.3  | 567.1  | 543.6  | 526.3  | 513.8  | 499.7  | 493.4  | 479.4  |
| 57.5°  | 595.3  | 578.0  | 568.6  | 538.9  | 512.2  | 488.7  | 476.2  | 463.7  | 448.0  | 438.6  | 432.4  |
| 60°    | 538.9  | 523.2  | 509.1  | 484.1  | 465.3  | 440.2  | 421.4  | 410.4  | 399.5  | 386.9  | 380.7  |
| 62.5°  | 484.1  | 471.5  | 454.3  | 433.9  | 410.4  | 390.1  | 376.0  | 360.3  | 354.0  | 341.5  | 336.8  |
| 65°    | 424.5  | 415.1  | 401.0  | 377.5  | 358.7  | 341.5  | 327.4  | 314.9  | 308.6  | 303.9  | 300.8  |
| 67.5°  | 371.3  | 358.7  | 349.3  | 329.0  | 308.6  | 294.5  | 286.7  | 278.8  | 271.0  | 266.3  | 261.6  |
| 70°    | 316.4  | 307.0  | 297.6  | 278.8  | 264.7  | 252.2  | 245.9  | 239.7  | 235.0  | 230.3  | 225.6  |
| 72.5°  | 260.0  | 255.3  | 245.9  | 233.4  | 222.4  | 213.0  | 208.3  | 200.5  | 195.8  | 188.0  | 184.8  |
| 75°    | 214.6  | 206.8  | 202.1  | 191.1  | 181.7  | 173.9  | 167.6  | 158.2  | 152.0  | 148.8  | 147.3  |
| 77.5°  | 169.2  | 166.0  | 159.8  | 150.4  | 145.7  | 137.9  | 128.5  | 125.3  | 122.2  | 122.2  | 120.6  |
| 80°    | 126.9  | 122.2  | 117.5  | 109.7  | 105.0  | 98.7   | 98.7   | 98.7   | 97.1   | 98.7   | 97.1   |
| 82.5°  | 86.2   | 83.0   | 79.9   | 75.2   | 73.6   | 73.6   | 75.2   | 75.2   | 75.2   | 75.2   | 75.2   |
| 85°    | 50.1   | 50.1   | 50.1   | 51.7   | 50.1   | 50.1   | 51.7   | 53.3   | 51.7   | 51.7   | 50.1   |
| 87.5°  | 23.5   | 23.5   | 25.1   | 25.1   | 26.6   | 26.6   | 26.6   | 26.6   | 26.6   | 26.6   | 28.2   |
| 90°    | 5.6    | 6.2    | 7.0    | 8.7    | 10.3   | 12.0   | 13.6   | 14.1   | 14.6   | 15.1   | 15.6   |
| 92.5°  | 10.1   | 9.7    | 10.3   | 11.4   | 12.5   | 13.7   | 14.8   | 15.7   | 16.5   | 17.4   | 18.3   |
| 95°    | 14.0   | 11.4   | 12.1   | 13.5   | 14.8   | 16.2   | 17.6   | 18.5   | 19.4   | 20.3   | 21.2   |
| 97.5°  | 49.0   | 47.2   | 44.0   | 37.5   | 31.1   | 24.6   | 18.2   | 19.2   | 20.2   | 21.2   | 22.2   |
| 100°   | 106.1  | 107.4  | 97.5   | 77.8   | 58.1   | 38.4   | 18.7   | 19.7   | 20.7   | 21.8   | 22.8   |
| 102.5° | 140.1  | 140.9  | 129.9  | 107.9  | 86.0   | 64.0   | 42.0   | 37.8   | 33.7   | 29.5   | 25.4   |
| 105°   | 174.9  | 175.6  | 169.9  | 158.5  | 147.2  | 135.8  | 124.4  | 102.1  | 79.7   | 57.4   | 35.1   |
| 107.5° | 211.9  | 212.5  | 213.4  | 215.3  | 217.2  | 219.1  | 221.0  | 201.6  | 182.1  | 162.7  | 143.2  |
| 110°   | 249.5  | 250.0  | 250.7  | 252.1  | 253.4  | 254.8  | 256.2  | 252.0  | 247.9  | 243.7  | 239.6  |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 285.4 | 285.8  | 286.5 | 287.9 | 289.2 | 290.6 | 292.0 | 293.2 | 294.3 | 295.5 | 296.6 |
| 115°   | 320.6 | 321.0  | 321.6 | 322.7 | 323.8 | 325.0 | 326.1 | 327.4 | 328.6 | 329.9 | 331.2 |
| 117.5° | 356.4 | 356.8  | 357.1 | 357.8 | 358.4 | 359.1 | 359.7 | 360.7 | 361.7 | 362.7 | 363.7 |
| 120°   | 389.7 | 390.3  | 390.5 | 390.9 | 391.2 | 391.6 | 392.0 | 393.0 | 394.0 | 395.1 | 396.1 |
| 122.5° | 421.8 | 422.2  | 422.4 | 422.9 | 423.4 | 423.9 | 424.4 | 425.0 | 425.7 | 426.3 | 427.0 |
| 125°   | 451.8 | 452.3  | 452.5 | 453.0 | 453.5 | 454.0 | 454.5 | 454.8 | 455.0 | 455.3 | 455.6 |
| 127.5° | 481.3 | 481.8  | 482.1 | 482.8 | 483.4 | 484.1 | 484.7 | 485.1 | 485.5 | 485.8 | 486.2 |
| 130°   | 508.6 | 509.1  | 509.4 | 509.9 | 510.4 | 510.9 | 511.4 | 511.9 | 512.4 | 512.9 | 513.4 |
| 132.5° | 534.7 | 535.2  | 535.4 | 535.8 | 536.1 | 536.5 | 536.9 | 537.4 | 537.9 | 538.4 | 538.9 |
| 135°   | 560.4 | 560.8  | 561.1 | 561.6 | 562.1 | 562.6 | 563.1 | 563.5 | 563.9 | 564.2 | 564.6 |
| 137.5° | 584.2 | 584.7  | 584.8 | 585.1 | 585.3 | 585.6 | 585.8 | 586.4 | 587.0 | 587.7 | 588.3 |
| 140°   | 605.8 | 606.2  | 606.4 | 606.8 | 607.2 | 607.6 | 608.0 | 608.5 | 609.0 | 609.5 | 610.0 |
| 142.5° | 626.9 | 627.3  | 627.5 | 627.9 | 628.2 | 628.6 | 629.0 | 629.4 | 629.8 | 630.1 | 630.5 |
| 145°   | 646.8 | 647.2  | 647.3 | 647.6 | 647.8 | 648.1 | 648.3 | 648.5 | 648.8 | 649.0 | 649.3 |
| 147.5° | 664.5 | 664.8  | 664.9 | 665.2 | 665.4 | 665.7 | 665.9 | 666.1 | 666.4 | 666.6 | 666.9 |
| 150°   | 680.5 | 680.7  | 680.8 | 681.1 | 681.3 | 681.6 | 681.8 | 682.1 | 682.3 | 682.6 | 682.9 |
| 152.5° | 694.8 | 694.9  | 695.0 | 695.1 | 695.2 | 695.4 | 695.5 | 696.0 | 696.5 | 697.0 | 697.5 |
| 155°   | 707.5 | 707.4  | 707.5 | 707.6 | 707.7 | 707.9 | 708.0 | 708.6 | 709.2 | 709.9 | 710.5 |
| 157.5° | 719.9 | 719.9  | 719.8 | 719.7 | 719.6 | 719.4 | 719.3 | 720.1 | 720.8 | 721.6 | 722.3 |
| 160°   | 729.6 | 729.5  | 729.4 | 729.3 | 729.2 | 729.1 | 729.0 | 729.8 | 730.5 | 731.3 | 732.0 |
| 162.5° | 738.3 | 738.1  | 738.0 | 737.9 | 737.8 | 737.6 | 737.5 | 738.4 | 739.3 | 740.2 | 741.1 |
| 165°   | 745.7 | 745.5  | 745.4 | 745.3 | 745.2 | 745.0 | 744.9 | 745.9 | 746.9 | 747.9 | 748.9 |
| 167.5° | 751.4 | 751.1  | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 752.1 | 753.1 | 754.2 | 755.2 |
| 170°   | 756.5 | 756.2  | 756.2 | 756.2 | 756.2 | 756.2 | 756.2 | 757.2 | 758.2 | 759.3 | 760.3 |
| 172.5° | 759.4 | 759.1  | 759.2 | 759.3 | 759.4 | 759.6 | 759.7 | 760.7 | 761.7 | 762.7 | 763.7 |
| 175°   | 762.2 | 761.9  | 762.0 | 762.1 | 762.2 | 762.4 | 762.5 | 763.4 | 764.3 | 765.2 | 766.1 |
| 177.5° | 763.4 | 763.1  | 763.2 | 763.3 | 763.4 | 763.5 | 763.6 | 764.6 | 765.6 | 766.7 | 767.7 |
| 180°   | 764.8 | 764.8  | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1729.4 | 1731.0 | 1726.3 | 1716.9 | 1715.3 | 1718.5 | 1727.9 | 1724.7 | 1716.9 | 1731.0 | 1718.5 |
| 5°     | 1633.9 | 1626.0 | 1622.9 | 1626.0 | 1616.6 | 1611.9 | 1621.3 | 1616.6 | 1621.3 | 1622.9 | 1627.6 |
| 7.5°   | 1541.4 | 1543.0 | 1533.6 | 1535.2 | 1522.6 | 1525.8 | 1525.8 | 1525.8 | 1530.5 | 1533.6 | 1539.9 |
| 10°    | 1461.5 | 1464.7 | 1453.7 | 1455.3 | 1445.9 | 1439.6 | 1444.3 | 1453.7 | 1453.7 | 1453.7 | 1456.8 |
| 12.5°  | 1397.3 | 1383.2 | 1375.4 | 1373.8 | 1362.9 | 1359.7 | 1369.1 | 1372.3 | 1380.1 | 1380.1 | 1384.8 |
| 15°    | 1317.4 | 1314.3 | 1308.0 | 1308.0 | 1281.4 | 1287.7 | 1290.8 | 1301.8 | 1317.4 | 1304.9 | 1308.0 |
| 17.5°  | 1245.4 | 1237.5 | 1229.7 | 1226.6 | 1223.4 | 1214.0 | 1226.6 | 1225.0 | 1234.4 | 1236.0 | 1240.7 |
| 20°    | 1181.1 | 1174.9 | 1159.2 | 1160.8 | 1163.9 | 1149.8 | 1157.6 | 1157.6 | 1167.0 | 1176.4 | 1187.4 |
| 22.5°  | 1118.5 | 1112.2 | 1104.4 | 1107.5 | 1098.1 | 1095.0 | 1095.0 | 1102.8 | 1113.8 | 1121.6 | 1120.1 |
| 25°    | 1069.9 | 1059.0 | 1054.3 | 1049.6 | 1044.9 | 1048.0 | 1043.3 | 1051.1 | 1059.0 | 1063.7 | 1059.0 |
| 27.5°  | 1015.1 | 1010.4 | 1001.0 | 996.3  | 988.5  | 991.6  | 994.7  | 1001.0 | 1005.7 | 1005.7 | 1010.4 |
| 30°    | 961.8  | 955.6  | 952.4  | 947.7  | 947.7  | 941.5  | 943.0  | 949.3  | 954.0  | 958.7  | 965.0  |
| 32.5°  | 910.1  | 905.4  | 900.7  | 900.7  | 897.6  | 896.0  | 894.5  | 903.9  | 903.9  | 913.3  | 913.3  |
| 35°    | 867.8  | 860.0  | 860.0  | 852.2  | 855.3  | 853.7  | 850.6  | 856.9  | 858.4  | 864.7  | 863.1  |
| 37.5°  | 820.8  | 820.8  | 817.7  | 809.9  | 803.6  | 805.2  | 813.0  | 813.0  | 817.7  | 816.1  | 820.8  |
| 40°    | 773.9  | 770.7  | 770.7  | 766.0  | 764.5  | 762.9  | 764.5  | 766.0  | 773.9  | 772.3  | 773.9  |
| 42.5°  | 726.9  | 728.4  | 720.6  | 720.6  | 720.6  | 715.9  | 717.5  | 719.0  | 722.2  | 725.3  | 730.0  |
| 45°    | 681.4  | 678.3  | 676.7  | 673.6  | 670.5  | 672.0  | 670.5  | 676.7  | 675.2  | 678.3  | 683.0  |
| 47.5°  | 632.9  | 628.2  | 626.6  | 620.3  | 620.3  | 623.5  | 621.9  | 626.6  | 628.2  | 632.9  | 629.7  |
| 50°    | 585.9  | 579.6  | 574.9  | 576.5  | 567.1  | 570.2  | 570.2  | 574.9  | 579.6  | 581.2  | 584.3  |
| 52.5°  | 531.0  | 529.5  | 527.9  | 520.1  | 518.5  | 516.9  | 518.5  | 520.1  | 526.3  | 531.0  | 532.6  |
| 55°    | 477.8  | 476.2  | 466.8  | 463.7  | 459.0  | 459.0  | 462.1  | 463.7  | 474.7  | 476.2  | 482.5  |
| 57.5°  | 429.2  | 424.5  | 413.6  | 412.0  | 412.0  | 412.0  | 407.3  | 413.6  | 416.7  | 424.5  | 424.5  |
| 60°    | 376.0  | 376.0  | 366.6  | 366.6  | 368.1  | 366.6  | 366.6  | 368.1  | 368.1  | 374.4  | 377.5  |
| 62.5°  | 333.7  | 332.1  | 332.1  | 329.0  | 327.4  | 329.0  | 327.4  | 327.4  | 329.0  | 333.7  | 338.4  |
| 65°    | 296.1  | 294.5  | 292.9  | 291.4  | 288.2  | 288.2  | 289.8  | 292.9  | 292.9  | 296.1  | 297.6  |
| 67.5°  | 260.0  | 260.0  | 256.9  | 256.9  | 255.3  | 253.8  | 255.3  | 253.8  | 260.0  | 260.0  | 261.6  |
| 70°    | 224.0  | 222.4  | 217.7  | 216.2  | 211.5  | 213.0  | 213.0  | 217.7  | 219.3  | 222.4  | 225.6  |
| 72.5°  | 180.1  | 180.1  | 177.0  | 173.9  | 175.4  | 172.3  | 172.3  | 173.9  | 173.9  | 178.6  | 180.1  |
| 75°    | 148.8  | 145.7  | 144.1  | 145.7  | 144.1  | 147.3  | 144.1  | 144.1  | 147.3  | 147.3  | 147.3  |
| 77.5°  | 122.2  | 122.2  | 120.6  | 120.6  | 122.2  | 120.6  | 122.2  | 122.2  | 122.2  | 120.6  | 122.2  |
| 80°    | 100.3  | 98.7   | 98.7   | 98.7   | 97.1   | 97.1   | 97.1   | 97.1   | 97.1   | 97.1   | 97.1   |
| 82.5°  | 75.2   | 75.2   | 73.6   | 75.2   | 75.2   | 73.6   | 75.2   | 73.6   | 73.6   | 75.2   | 75.2   |
| 85°    | 50.1   | 53.3   | 50.1   | 50.1   | 51.7   | 51.7   | 53.3   | 51.7   | 53.3   | 50.1   | 51.7   |
| 87.5°  | 26.6   | 28.2   | 28.2   | 26.6   | 26.6   | 28.2   | 28.2   | 28.2   | 29.8   | 26.6   | 28.2   |
| 90°    | 15.9   | 16.0   | 16.3   | 16.5   | 16.8   | 17.0   | 16.8   | 16.5   | 16.3   | 16.0   | 15.9   |
| 92.5°  | 18.7   | 18.8   | 18.9   | 19.0   | 19.2   | 19.3   | 19.2   | 19.0   | 18.9   | 18.8   | 18.7   |
| 95°    | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   |
| 97.5°  | 22.7   | 22.8   | 22.9   | 23.0   | 23.2   | 23.3   | 23.2   | 23.0   | 22.9   | 22.8   | 22.7   |
| 100°   | 23.3   | 23.4   | 23.5   | 23.6   | 23.8   | 23.9   | 23.8   | 23.6   | 23.5   | 23.4   | 23.3   |
| 102.5° | 23.3   | 23.4   | 23.7   | 23.9   | 24.2   | 24.4   | 24.2   | 23.9   | 23.7   | 23.4   | 23.3   |
| 105°   | 23.9   | 24.0   | 24.3   | 24.5   | 24.8   | 25.0   | 24.8   | 24.5   | 24.3   | 24.0   | 23.9   |
| 107.5° | 133.5  | 125.2  | 108.7  | 92.2   | 75.6   | 59.1   | 75.6   | 92.2   | 108.7  | 125.2  | 133.5  |
| 110°   | 237.5  | 228.5  | 210.4  | 192.3  | 174.3  | 156.2  | 174.3  | 192.3  | 210.4  | 228.5  | 237.5  |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 297.2  | 297.1 | 296.8 | 296.5 | 296.3 | 296.0 | 296.3 | 296.5 | 296.8 | 297.1 | 297.2  |
| 115°   | 331.8  | 332.1 | 332.6 | 333.1 | 333.6 | 334.1 | 333.6 | 333.1 | 332.6 | 332.1 | 331.8  |
| 117.5° | 364.2  | 364.3 | 364.4 | 364.5 | 364.7 | 364.8 | 364.7 | 364.5 | 364.4 | 364.3 | 364.2  |
| 120°   | 396.6  | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6 | 396.6  |
| 122.5° | 427.3  | 427.4 | 427.5 | 427.6 | 427.7 | 427.8 | 427.7 | 427.6 | 427.5 | 427.4 | 427.3  |
| 125°   | 455.7  | 455.8 | 456.1 | 456.3 | 456.6 | 456.8 | 456.6 | 456.3 | 456.1 | 455.8 | 455.7  |
| 127.5° | 486.4  | 486.3 | 486.0 | 485.7 | 485.5 | 485.2 | 485.5 | 485.7 | 486.0 | 486.3 | 486.4  |
| 130°   | 513.6  | 513.5 | 513.2 | 513.0 | 512.7 | 512.5 | 512.7 | 513.0 | 513.2 | 513.5 | 513.6  |
| 132.5° | 539.2  | 539.0 | 538.6 | 538.3 | 537.9 | 537.5 | 537.9 | 538.3 | 538.6 | 539.0 | 539.2  |
| 135°   | 564.8  | 564.6 | 564.2 | 563.9 | 563.5 | 563.1 | 563.5 | 563.9 | 564.2 | 564.6 | 564.8  |
| 137.5° | 588.6  | 588.5 | 588.2 | 588.0 | 587.7 | 587.5 | 587.7 | 588.0 | 588.2 | 588.5 | 588.6  |
| 140°   | 610.2  | 610.1 | 609.8 | 609.6 | 609.3 | 609.1 | 609.3 | 609.6 | 609.8 | 610.1 | 610.2  |
| 142.5° | 630.7  | 630.5 | 630.1 | 629.8 | 629.4 | 629.0 | 629.4 | 629.8 | 630.1 | 630.5 | 630.7  |
| 145°   | 649.4  | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4  |
| 147.5° | 667.0  | 666.7 | 666.1 | 665.4 | 664.8 | 664.2 | 664.8 | 665.4 | 666.1 | 666.7 | 667.0  |
| 150°   | 683.0  | 682.8 | 682.4 | 682.0 | 681.6 | 681.2 | 681.6 | 682.0 | 682.4 | 682.8 | 683.0  |
| 152.5° | 697.7  | 697.4 | 696.8 | 696.1 | 695.5 | 694.9 | 695.5 | 696.1 | 696.8 | 697.4 | 697.7  |
| 155°   | 710.8  | 710.4 | 709.7 | 708.9 | 708.2 | 707.4 | 708.2 | 708.9 | 709.7 | 710.4 | 710.8  |
| 157.5° | 722.7  | 722.2 | 721.2 | 720.2 | 719.2 | 718.2 | 719.2 | 720.2 | 721.2 | 722.2 | 722.7  |
| 160°   | 732.4  | 732.0 | 731.1 | 730.2 | 729.3 | 728.4 | 729.3 | 730.2 | 731.1 | 732.0 | 732.4  |
| 162.5° | 741.5  | 741.1 | 740.4 | 739.6 | 738.9 | 738.1 | 738.9 | 739.6 | 740.4 | 741.1 | 741.5  |
| 165°   | 749.4  | 749.0 | 748.1 | 747.2 | 746.4 | 745.5 | 746.4 | 747.2 | 748.1 | 749.0 | 749.4  |
| 167.5° | 755.7  | 755.2 | 754.2 | 753.1 | 752.1 | 751.1 | 752.1 | 753.1 | 754.2 | 755.2 | 755.7  |
| 170°   | 760.8  | 760.3 | 759.3 | 758.2 | 757.2 | 756.2 | 757.2 | 758.2 | 759.3 | 760.3 | 760.8  |
| 172.5° | 764.2  | 763.6 | 762.5 | 761.4 | 760.2 | 759.1 | 760.2 | 761.4 | 762.5 | 763.6 | 764.2  |
| 175°   | 766.5  | 766.0 | 765.0 | 763.9 | 762.9 | 761.9 | 762.9 | 763.9 | 765.0 | 766.0 | 766.5  |
| 177.5° | 768.2  | 767.6 | 766.3 | 765.0 | 763.8 | 762.5 | 763.8 | 765.0 | 766.3 | 767.6 | 768.2  |
| 180°   | 764.8  | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8  |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1731.0 | 1737.3 | 1731.0 | 1718.5 | 1731.0 | 1738.8 | 1746.7 | 1759.2 | 1765.5 | 1765.5 | 1774.9 |
| 5°     | 1632.3 | 1644.8 | 1640.1 | 1637.0 | 1649.5 | 1657.4 | 1669.9 | 1685.6 | 1702.8 | 1713.8 | 1726.3 |
| 7.5°   | 1544.6 | 1552.4 | 1560.2 | 1560.2 | 1572.8 | 1590.0 | 1608.8 | 1627.6 | 1649.5 | 1665.2 | 1674.6 |
| 10°    | 1467.8 | 1474.1 | 1478.8 | 1485.0 | 1503.8 | 1522.6 | 1547.7 | 1571.2 | 1590.0 | 1607.2 | 1622.9 |
| 12.5°  | 1394.2 | 1403.6 | 1414.6 | 1419.3 | 1433.4 | 1456.8 | 1480.3 | 1508.5 | 1538.3 | 1555.5 | 1571.2 |
| 15°    | 1323.7 | 1328.4 | 1340.9 | 1355.0 | 1367.6 | 1392.6 | 1422.4 | 1452.2 | 1477.2 | 1503.8 | 1517.9 |
| 17.5°  | 1251.6 | 1253.2 | 1286.1 | 1278.3 | 1319.0 | 1342.5 | 1358.2 | 1386.4 | 1427.1 | 1449.0 | 1470.9 |
| 20°    | 1181.1 | 1196.8 | 1210.9 | 1218.7 | 1240.7 | 1267.3 | 1312.7 | 1334.7 | 1367.6 | 1387.9 | 1406.7 |
| 22.5°  | 1126.3 | 1149.8 | 1149.8 | 1168.6 | 1179.6 | 1204.6 | 1237.5 | 1279.8 | 1315.9 | 1330.0 | 1356.6 |
| 25°    | 1077.8 | 1088.7 | 1107.5 | 1113.8 | 1134.1 | 1156.1 | 1178.0 | 1223.4 | 1262.6 | 1281.4 | 1300.2 |
| 27.5°  | 1015.1 | 1029.2 | 1054.3 | 1054.3 | 1080.9 | 1104.4 | 1131.0 | 1160.8 | 1199.9 | 1226.6 | 1246.9 |
| 30°    | 966.5  | 980.6  | 991.6  | 1008.8 | 1019.8 | 1041.7 | 1088.7 | 1110.7 | 1145.1 | 1168.6 | 1193.7 |
| 32.5°  | 921.1  | 932.1  | 941.5  | 960.3  | 972.8  | 997.9  | 1022.9 | 1062.1 | 1091.9 | 1113.8 | 1140.4 |
| 35°    | 871.0  | 881.9  | 894.5  | 908.6  | 927.4  | 950.9  | 974.4  | 1007.3 | 1037.0 | 1057.4 | 1079.3 |
| 37.5°  | 824.0  | 831.8  | 850.6  | 860.0  | 875.7  | 897.6  | 927.4  | 961.8  | 988.5  | 1004.1 | 1026.1 |
| 40°    | 778.6  | 784.8  | 798.9  | 816.1  | 827.1  | 844.3  | 875.7  | 905.4  | 938.3  | 957.1  | 974.4  |
| 42.5°  | 730.0  | 737.8  | 750.4  | 767.6  | 784.8  | 803.6  | 820.8  | 855.3  | 885.1  | 900.7  | 919.5  |
| 45°    | 687.7  | 692.4  | 701.8  | 719.0  | 736.3  | 750.4  | 777.0  | 808.3  | 836.5  | 849.0  | 869.4  |
| 47.5°  | 637.6  | 642.3  | 656.4  | 664.2  | 683.0  | 701.8  | 728.4  | 759.8  | 784.8  | 797.4  | 816.1  |
| 50°    | 585.9  | 590.6  | 600.0  | 617.2  | 629.7  | 650.1  | 673.6  | 700.2  | 731.6  | 748.8  | 759.8  |
| 52.5°  | 535.7  | 545.1  | 553.0  | 567.1  | 582.7  | 603.1  | 625.0  | 650.1  | 676.7  | 694.0  | 706.5  |
| 55°    | 485.6  | 493.4  | 502.8  | 510.7  | 529.5  | 548.3  | 573.3  | 596.8  | 620.3  | 636.0  | 650.1  |
| 57.5°  | 429.2  | 440.2  | 449.6  | 465.3  | 479.4  | 495.0  | 523.2  | 542.0  | 570.2  | 581.2  | 593.7  |
| 60°    | 380.7  | 391.6  | 399.5  | 412.0  | 424.5  | 444.9  | 463.7  | 487.2  | 510.7  | 524.8  | 540.4  |
| 62.5°  | 339.9  | 344.6  | 349.3  | 361.9  | 374.4  | 393.2  | 412.0  | 435.5  | 460.6  | 468.4  | 480.9  |
| 65°    | 299.2  | 303.9  | 311.7  | 322.7  | 332.1  | 343.1  | 363.4  | 382.2  | 405.7  | 418.3  | 423.0  |
| 67.5°  | 264.7  | 269.4  | 271.0  | 278.8  | 286.7  | 299.2  | 310.2  | 329.0  | 350.9  | 358.7  | 368.1  |
| 70°    | 225.6  | 233.4  | 235.0  | 241.2  | 244.4  | 252.2  | 264.7  | 278.8  | 296.1  | 310.2  | 318.0  |
| 72.5°  | 180.1  | 191.1  | 194.2  | 203.6  | 208.3  | 216.2  | 225.6  | 236.5  | 247.5  | 253.8  | 260.0  |
| 75°    | 147.3  | 150.4  | 152.0  | 159.8  | 167.6  | 178.6  | 183.3  | 189.5  | 198.9  | 206.8  | 213.0  |
| 77.5°  | 122.2  | 123.8  | 125.3  | 125.3  | 126.9  | 133.2  | 142.6  | 150.4  | 156.7  | 159.8  | 164.5  |
| 80°    | 98.7   | 97.1   | 97.1   | 98.7   | 98.7   | 98.7   | 101.8  | 112.8  | 115.9  | 123.8  | 122.2  |
| 82.5°  | 76.8   | 73.6   | 75.2   | 73.6   | 73.6   | 73.6   | 73.6   | 75.2   | 75.2   | 79.9   | 83.0   |
| 85°    | 50.1   | 51.7   | 50.1   | 50.1   | 48.6   | 50.1   | 48.6   | 48.6   | 47.0   | 47.0   | 45.4   |
| 87.5°  | 26.6   | 28.2   | 26.6   | 26.6   | 25.1   | 26.6   | 25.1   | 25.1   | 23.5   | 23.5   | 20.4   |
| 90°    | 15.6   | 15.1   | 14.6   | 14.1   | 13.6   | 12.0   | 10.3   | 8.7    | 7.0    | 6.2    | 5.6    |
| 92.5°  | 18.3   | 17.4   | 16.5   | 15.7   | 14.8   | 13.7   | 12.5   | 11.4   | 10.3   | 9.7    | 10.1   |
| 95°    | 21.2   | 20.3   | 19.4   | 18.5   | 17.6   | 16.2   | 14.8   | 13.5   | 12.1   | 11.4   | 14.0   |
| 97.5°  | 22.2   | 21.2   | 20.2   | 19.2   | 18.2   | 24.6   | 31.1   | 37.5   | 44.0   | 47.2   | 49.0   |
| 100°   | 22.8   | 21.8   | 20.7   | 19.7   | 18.7   | 38.4   | 58.1   | 77.8   | 97.5   | 107.4  | 106.1  |
| 102.5° | 25.4   | 29.5   | 33.7   | 37.8   | 42.0   | 64.0   | 86.0   | 107.9  | 129.9  | 140.9  | 140.1  |
| 105°   | 35.1   | 57.4   | 79.7   | 102.1  | 124.4  | 135.8  | 147.2  | 158.5  | 169.9  | 175.6  | 174.9  |
| 107.5° | 143.2  | 162.7  | 182.1  | 201.6  | 221.0  | 219.1  | 217.2  | 215.3  | 213.4  | 212.5  | 211.9  |
| 110°   | 239.6  | 243.7  | 247.9  | 252.0  | 256.2  | 254.8  | 253.4  | 252.1  | 250.7  | 250.0  | 249.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 296.6 | 295.5 | 294.3 | 293.2 | 292.0 | 290.6 | 289.2 | 287.9 | 286.5 | 285.8  | 285.4 |
| 115°   | 331.2 | 329.9 | 328.6 | 327.4 | 326.1 | 325.0 | 323.8 | 322.7 | 321.6 | 321.0  | 320.6 |
| 117.5° | 363.7 | 362.7 | 361.7 | 360.7 | 359.7 | 359.1 | 358.4 | 357.8 | 357.1 | 356.8  | 356.4 |
| 120°   | 396.1 | 395.1 | 394.0 | 393.0 | 392.0 | 391.6 | 391.2 | 390.9 | 390.5 | 390.3  | 389.7 |
| 122.5° | 427.0 | 426.3 | 425.7 | 425.0 | 424.4 | 423.9 | 423.4 | 422.9 | 422.4 | 422.2  | 421.8 |
| 125°   | 455.6 | 455.3 | 455.0 | 454.8 | 454.5 | 454.0 | 453.5 | 453.0 | 452.5 | 452.3  | 451.8 |
| 127.5° | 486.2 | 485.8 | 485.5 | 485.1 | 484.7 | 484.1 | 483.4 | 482.8 | 482.1 | 481.8  | 481.3 |
| 130°   | 513.4 | 512.9 | 512.4 | 511.9 | 511.4 | 510.9 | 510.4 | 509.9 | 509.4 | 509.1  | 508.6 |
| 132.5° | 538.9 | 538.4 | 537.9 | 537.4 | 536.9 | 536.5 | 536.1 | 535.8 | 535.4 | 535.2  | 534.7 |
| 135°   | 564.6 | 564.2 | 563.9 | 563.5 | 563.1 | 562.6 | 562.1 | 561.6 | 561.1 | 560.8  | 560.4 |
| 137.5° | 588.3 | 587.7 | 587.0 | 586.4 | 585.8 | 585.6 | 585.3 | 585.1 | 584.8 | 584.7  | 584.2 |
| 140°   | 610.0 | 609.5 | 609.0 | 608.5 | 608.0 | 607.6 | 607.2 | 606.8 | 606.4 | 606.2  | 605.8 |
| 142.5° | 630.5 | 630.1 | 629.8 | 629.4 | 629.0 | 628.6 | 628.2 | 627.9 | 627.5 | 627.3  | 626.9 |
| 145°   | 649.3 | 649.0 | 648.8 | 648.5 | 648.3 | 648.1 | 647.8 | 647.6 | 647.3 | 647.2  | 646.8 |
| 147.5° | 666.9 | 666.6 | 666.4 | 666.1 | 665.9 | 665.7 | 665.4 | 665.2 | 664.9 | 664.8  | 664.5 |
| 150°   | 682.9 | 682.6 | 682.3 | 682.1 | 681.8 | 681.6 | 681.3 | 681.1 | 680.8 | 680.7  | 680.5 |
| 152.5° | 697.5 | 697.0 | 696.5 | 696.0 | 695.5 | 695.4 | 695.2 | 695.1 | 695.0 | 694.9  | 694.8 |
| 155°   | 710.5 | 709.9 | 709.2 | 708.6 | 708.0 | 707.9 | 707.7 | 707.6 | 707.5 | 707.4  | 707.5 |
| 157.5° | 722.3 | 721.6 | 720.8 | 720.1 | 719.3 | 719.4 | 719.6 | 719.7 | 719.8 | 719.9  | 719.9 |
| 160°   | 732.0 | 731.3 | 730.5 | 729.8 | 729.0 | 729.1 | 729.2 | 729.3 | 729.4 | 729.5  | 729.6 |
| 162.5° | 741.1 | 740.2 | 739.3 | 738.4 | 737.5 | 737.6 | 737.8 | 737.9 | 738.0 | 738.1  | 738.3 |
| 165°   | 748.9 | 747.9 | 746.9 | 745.9 | 744.9 | 745.0 | 745.2 | 745.3 | 745.4 | 745.5  | 745.7 |
| 167.5° | 755.2 | 754.2 | 753.1 | 752.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1  | 751.4 |
| 170°   | 760.3 | 759.3 | 758.2 | 757.2 | 756.2 | 756.2 | 756.2 | 756.2 | 756.2 | 756.2  | 756.5 |
| 172.5° | 763.7 | 762.7 | 761.7 | 760.7 | 759.7 | 759.6 | 759.4 | 759.3 | 759.2 | 759.1  | 759.4 |
| 175°   | 766.1 | 765.2 | 764.3 | 763.4 | 762.5 | 762.4 | 762.2 | 762.1 | 762.0 | 761.9  | 762.2 |
| 177.5° | 767.7 | 766.7 | 765.6 | 764.6 | 763.6 | 763.5 | 763.4 | 763.3 | 763.2 | 763.1  | 763.4 |
| 180°   | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8 | 764.8  | 764.8 |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1829.7 | 1829.7 | 1829.7 | 1829.7 |
| 2.5°   | 1782.7 | 1793.6 | 1815.6 | 1834.4 |
| 5°     | 1745.1 | 1762.3 | 1795.2 | 1828.1 |
| 7.5°   | 1699.7 | 1726.3 | 1768.6 | 1814.0 |
| 10°    | 1655.8 | 1690.3 | 1742.0 | 1795.2 |
| 12.5°  | 1611.9 | 1648.0 | 1702.8 | 1771.7 |
| 15°    | 1560.2 | 1597.8 | 1663.6 | 1746.7 |
| 17.5°  | 1514.8 | 1564.9 | 1624.5 | 1707.5 |
| 20°    | 1466.2 | 1503.8 | 1580.6 | 1668.3 |
| 22.5°  | 1405.2 | 1467.8 | 1539.9 | 1632.3 |
| 25°    | 1356.6 | 1411.4 | 1483.5 | 1588.4 |
| 27.5°  | 1297.1 | 1361.3 | 1449.0 | 1541.4 |
| 30°    | 1248.5 | 1301.8 | 1383.2 | 1494.4 |
| 32.5°  | 1192.1 | 1254.8 | 1339.4 | 1449.0 |
| 35°    | 1142.0 | 1195.2 | 1275.1 | 1386.4 |
| 37.5°  | 1082.5 | 1140.4 | 1229.7 | 1328.4 |
| 40°    | 1030.8 | 1087.2 | 1171.7 | 1264.2 |
| 42.5°  | 968.1  | 1027.6 | 1112.2 | 1190.5 |
| 45°    | 918.0  | 972.8  | 1040.2 | 1112.2 |
| 47.5°  | 856.9  | 914.8  | 980.6  | 1030.8 |
| 50°    | 802.1  | 855.3  | 907.0  | 949.3  |
| 52.5°  | 742.5  | 791.1  | 838.1  | 869.4  |
| 55°    | 687.7  | 725.3  | 762.9  | 784.8  |
| 57.5°  | 623.5  | 659.5  | 690.8  | 703.4  |
| 60°    | 567.1  | 596.8  | 617.2  | 631.3  |
| 62.5°  | 507.5  | 529.5  | 545.1  | 553.0  |
| 65°    | 449.6  | 465.3  | 473.1  | 480.9  |
| 67.5°  | 390.1  | 404.2  | 408.9  | 418.3  |
| 70°    | 327.4  | 343.1  | 346.2  | 350.9  |
| 72.5°  | 280.4  | 280.4  | 286.7  | 292.9  |
| 75°    | 224.0  | 227.1  | 230.3  | 230.3  |
| 77.5°  | 175.4  | 175.4  | 178.6  | 180.1  |
| 80°    | 128.5  | 130.0  | 130.0  | 128.5  |
| 82.5°  | 87.7   | 90.9   | 87.7   | 86.2   |
| 85°    | 48.6   | 54.8   | 51.7   | 51.7   |
| 87.5°  | 20.4   | 20.4   | 23.5   | 20.4   |
| 90°    | 4.3    | 3.1    | 1.8    | 0.6    |
| 92.5°  | 10.8   | 11.6   | 12.3   | 13.1   |
| 95°    | 19.2   | 24.3   | 29.5   | 34.7   |
| 97.5°  | 52.5   | 56.0   | 59.6   | 63.1   |
| 100°   | 103.6  | 101.1  | 98.5   | 96.0   |
| 102.5° | 138.4  | 136.8  | 135.1  | 133.5  |
| 105°   | 173.5  | 172.1  | 170.7  | 169.3  |
| 107.5° | 210.8  | 209.7  | 208.5  | 207.4  |
| 110°   | 248.5  | 247.5  | 246.5  | 245.5  |

TEST NUMBER: P1010852

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 284.5 | 283.6 | 282.7 | 281.8 |
| 115°   | 319.9 | 319.1 | 318.4 | 317.6 |
| 117.5° | 355.5 | 354.6 | 353.7 | 352.8 |
| 120°   | 388.6 | 387.5 | 386.3 | 385.2 |
| 122.5° | 420.9 | 420.0 | 419.1 | 418.2 |
| 125°   | 450.8 | 449.7 | 448.7 | 447.7 |
| 127.5° | 480.3 | 479.3 | 478.3 | 477.3 |
| 130°   | 507.6 | 506.5 | 505.5 | 504.5 |
| 132.5° | 533.7 | 532.7 | 531.7 | 530.7 |
| 135°   | 559.7 | 558.9 | 558.2 | 557.4 |
| 137.5° | 583.2 | 582.1 | 581.1 | 580.1 |
| 140°   | 605.1 | 604.3 | 603.6 | 602.8 |
| 142.5° | 626.2 | 625.4 | 624.7 | 623.9 |
| 145°   | 645.9 | 645.0 | 644.1 | 643.2 |
| 147.5° | 663.8 | 663.2 | 662.5 | 661.9 |
| 150°   | 680.1 | 679.8 | 679.4 | 679.0 |
| 152.5° | 694.7 | 694.6 | 694.4 | 694.3 |
| 155°   | 707.8 | 708.0 | 708.3 | 708.5 |
| 157.5° | 719.9 | 719.9 | 719.9 | 719.9 |
| 160°   | 729.7 | 729.8 | 730.0 | 730.1 |
| 162.5° | 738.7 | 739.0 | 739.4 | 739.8 |
| 165°   | 746.1 | 746.4 | 746.8 | 747.2 |
| 167.5° | 751.9 | 752.4 | 752.9 | 753.4 |
| 170°   | 757.0 | 757.5 | 758.0 | 758.5 |
| 172.5° | 760.0 | 760.7 | 761.3 | 761.9 |
| 175°   | 762.9 | 763.5 | 764.2 | 764.8 |
| 177.5° | 764.0 | 764.7 | 765.3 | 765.9 |
| 180°   | 764.8 | 764.8 | 764.8 | 764.8 |

(END OF REPORT)