

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: P1031048

Luminaire Tested: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1031048  
REPORT IS A COMBINATION OF REPORTS P993863 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K  
Description: Define 3 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

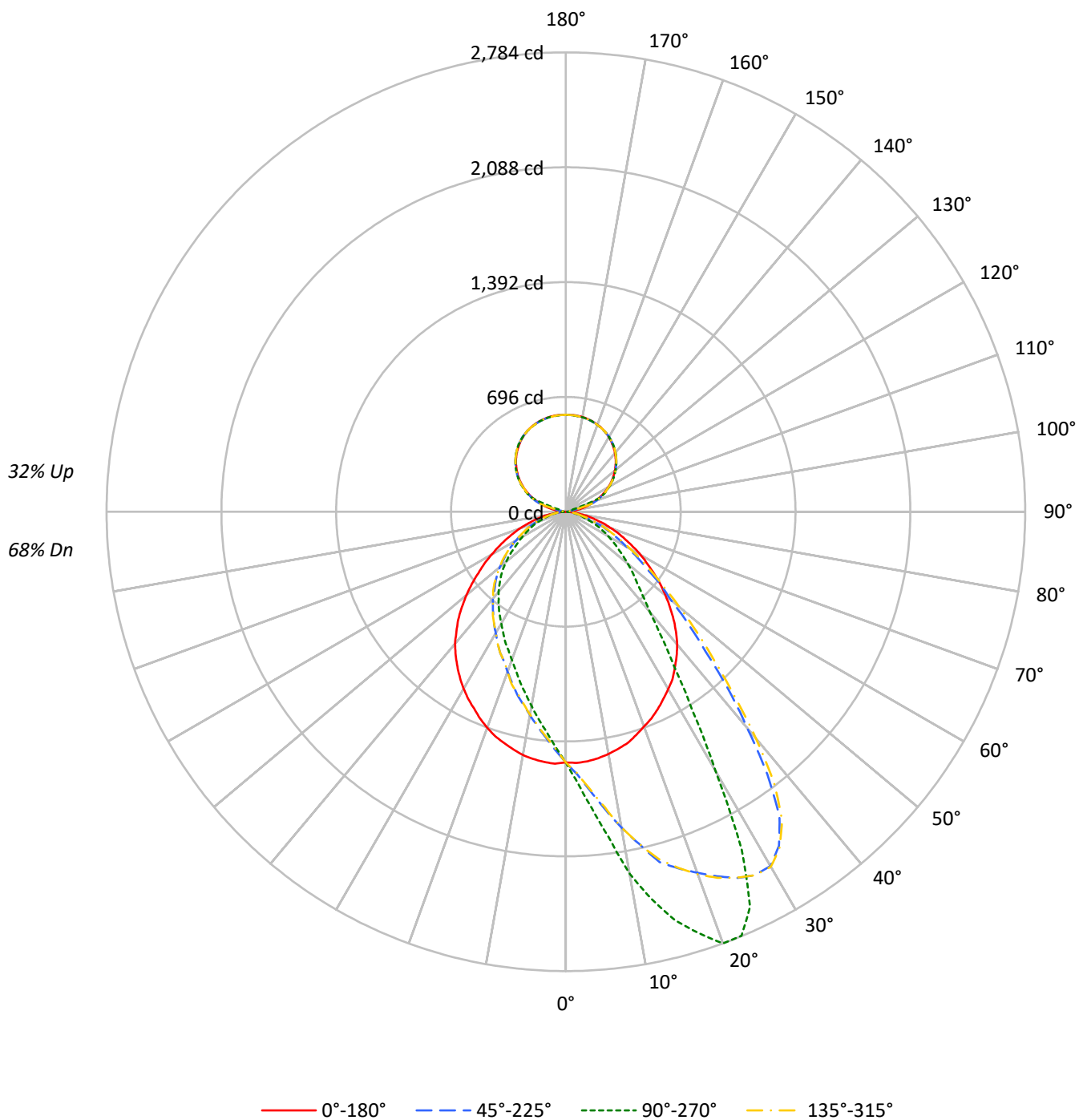
Lumens per Lamp: N/A  
Luminaire Lumens: 5576.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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

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CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1031048

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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 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 73 | 73 | 73 |    |    | 68 |
| 1   | 103 | 98  | 95  | 91  | 97  | 93  | 90  | 87  | 83 | 81 | 78 | 74 | 72 | 70 | 65 | 64 | 63 |    |    | 59 |
| 2   | 94  | 87  | 81  | 76  | 89  | 82  | 77  | 73  | 74 | 70 | 66 | 66 | 63 | 60 | 59 | 56 | 54 |    |    | 51 |
| 3   | 86  | 77  | 70  | 64  | 81  | 73  | 67  | 62  | 66 | 61 | 57 | 59 | 55 | 52 | 53 | 50 | 47 |    |    | 44 |
| 4   | 79  | 69  | 61  | 55  | 75  | 65  | 59  | 53  | 59 | 53 | 49 | 53 | 49 | 45 | 48 | 44 | 41 |    |    | 38 |
| 5   | 73  | 62  | 54  | 48  | 69  | 59  | 52  | 46  | 53 | 47 | 43 | 48 | 43 | 40 | 43 | 39 | 36 |    |    | 34 |
| 6   | 68  | 56  | 48  | 42  | 64  | 53  | 46  | 41  | 48 | 42 | 38 | 44 | 39 | 35 | 39 | 35 | 32 |    |    | 30 |
| 7   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 36  | 44 | 38 | 34 | 40 | 35 | 31 | 36 | 32 | 29 |    |    | 27 |
| 8   | 59  | 46  | 39  | 33  | 55  | 44  | 37  | 32  | 40 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 26 |    |    | 24 |
| 9   | 55  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 27 | 34 | 29 | 26 | 31 | 27 | 24 |    |    | 22 |
| 10  | 51  | 39  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 |    |    | 20 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 16353 | 16353 | 16353 | 16353 |
| 5°  | 16365 | 18834 | 16407 | 13972 |
| 10° | 16221 | 22735 | 16291 | 12205 |
| 15° | 16054 | 25803 | 16054 | 10761 |
| 20° | 15725 | 27832 | 15814 | 9546  |
| 25° | 15484 | 26443 | 15453 | 8710  |
| 30° | 15204 | 18321 | 15172 | 7893  |
| 35° | 14866 | 11763 | 14798 | 7277  |
| 40° | 14447 | 8306  | 14375 | 6665  |
| 45° | 13715 | 6647  | 13696 | 6067  |
| 50° | 12817 | 5561  | 12775 | 5369  |
| 55° | 11808 | 4583  | 11714 | 4552  |
| 60° | 10817 | 3788  | 10709 | 3871  |
| 65° | 9653  | 3031  | 9715  | 3281  |
| 70° | 8581  | 2107  | 8811  | 2652  |
| 75° | 7273  | 1563  | 7570  | 2040  |
| 80° | 5793  | 1035  | 6287  | 1529  |
| 85° | 4121  | 490   | 4495  | 951   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 21832 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.2  | 2.7       |
| 10°-20°   | 467.0  | 8.4       |
| 20°-30°   | 735.6  | 13.2      |
| 30°-40°   | 764.9  | 13.7      |
| 40°-50°   | 654.4  | 11.7      |
| 50°-60°   | 498.9  | 8.9       |
| 60°-70°   | 319.6  | 5.7       |
| 70°-80°   | 153.1  | 2.7       |
| 80°-90°   | 41.4   | 0.7       |
| 90°-100°  | 20.7   | 0.4       |
| 100°-110° | 100.2  | 1.8       |
| 110°-120° | 245.6  | 4.4       |
| 120°-130° | 311.7  | 5.6       |
| 130°-140° | 333.0  | 6.0       |
| 140°-150° | 311.4  | 5.6       |
| 150°-160° | 251.2  | 4.5       |
| 160°-170° | 162.1  | 2.9       |
| 170°-180° | 55.9   | 1.0       |
| 0°-30°    | 1351.8 | 24.2      |
| 0°-40°    | 2116.7 | 38.0      |
| 0°-60°    | 3270.0 | 58.6      |
| 0°-90°    | 3784.2 | 67.9      |
| 90°-120°  | 366.5  | 6.6       |
| 90°-150°  | 1322.6 | 23.7      |
| 90°-180°  | 1792.0 | 32.1      |
| 0°-180°   | 5576.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1519 | 1519 | 1519 | 1519 | 1519 |      |
| 5°   | 1518 | 1804 | 1522 | 1338 | 1518 | 144  |
| 15°  | 1450 | 2564 | 1450 | 1069 | 1450 | 408  |
| 25°  | 1319 | 2642 | 1316 | 870  | 1319 | 608  |
| 35°  | 1151 | 1146 | 1146 | 709  | 1151 | 720  |
| 45°  | 924  | 611  | 922  | 558  | 924  | 711  |
| 55°  | 652  | 384  | 646  | 381  | 652  | 584  |
| 65°  | 399  | 221  | 402  | 239  | 399  | 399  |
| 75°  | 191  | 94   | 199  | 122  | 191  | 206  |
| 85°  | 43   | 22   | 47   | 43   | 43   | 48   |
| 90°  | 0    | 13   | 0    | 13   | 0    | 4    |
| 95°  | 27   | 17   | 27   | 17   | 27   | 32   |
| 105° | 130  | 19   | 130  | 19   | 130  | 138  |
| 115° | 244  | 257  | 244  | 257  | 244  | 241  |
| 125° | 344  | 351  | 344  | 351  | 344  | 307  |
| 135° | 428  | 433  | 428  | 433  | 428  | 330  |
| 145° | 494  | 499  | 494  | 499  | 494  | 309  |
| 155° | 544  | 544  | 544  | 544  | 544  | 251  |
| 165° | 574  | 573  | 574  | 573  | 574  | 162  |
| 175° | 588  | 586  | 588  | 586  | 588  | 56   |
| 180° | 588  | 588  | 588  | 588  | 588  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1523.1 | 1533.6 | 1541.4 | 1546.6 | 1559.6 | 1567.4 | 1573.9 | 1585.6 | 1585.6 | 1588.2 | 1593.4 |
| 5°     | 1517.9 | 1540.1 | 1555.7 | 1576.5 | 1603.8 | 1616.8 | 1635.0 | 1650.6 | 1672.7 | 1684.4 | 1696.1 |
| 7.5°   | 1506.2 | 1537.5 | 1570.0 | 1601.2 | 1641.5 | 1667.5 | 1685.7 | 1726.1 | 1754.7 | 1789.8 | 1817.1 |
| 10°    | 1490.6 | 1533.6 | 1575.2 | 1623.3 | 1677.9 | 1717.0 | 1744.3 | 1797.6 | 1852.2 | 1901.7 | 1943.3 |
| 12.5°  | 1471.1 | 1523.1 | 1583.0 | 1641.5 | 1718.3 | 1757.3 | 1801.5 | 1867.8 | 1945.9 | 2008.3 | 2064.2 |
| 15°    | 1450.3 | 1510.1 | 1577.8 | 1649.3 | 1745.6 | 1800.2 | 1863.9 | 1944.6 | 2031.7 | 2121.5 | 2198.2 |
| 17.5°  | 1417.8 | 1493.2 | 1568.7 | 1672.7 | 1785.9 | 1818.4 | 1873.0 | 1983.6 | 2091.6 | 2172.2 | 2265.9 |
| 20°    | 1385.3 | 1469.8 | 1564.8 | 1658.4 | 1780.7 | 1856.1 | 1906.9 | 2023.9 | 2139.7 | 2237.2 | 2327.0 |
| 22.5°  | 1355.4 | 1443.8 | 1542.7 | 1661.0 | 1775.5 | 1850.9 | 1914.7 | 2036.9 | 2170.9 | 2280.2 | 2390.7 |
| 25°    | 1318.9 | 1415.2 | 1524.4 | 1636.3 | 1775.5 | 1832.7 | 1903.0 | 2044.7 | 2186.5 | 2312.7 | 2449.3 |
| 27.5°  | 1279.9 | 1377.5 | 1485.4 | 1599.9 | 1727.4 | 1811.9 | 1880.8 | 2033.0 | 2206.0 | 2341.3 | 2481.8 |
| 30°    | 1240.9 | 1341.0 | 1445.1 | 1547.9 | 1690.9 | 1771.6 | 1850.9 | 2018.7 | 2216.4 | 2371.2 | 2479.2 |
| 32.5°  | 1203.2 | 1287.7 | 1390.5 | 1490.6 | 1632.4 | 1720.9 | 1810.6 | 2004.4 | 2220.3 | 2350.4 | 2402.4 |
| 35°    | 1151.1 | 1239.6 | 1322.8 | 1429.5 | 1572.6 | 1659.7 | 1765.1 | 2003.1 | 2203.4 | 2284.1 | 2258.1 |
| 37.5°  | 1103.0 | 1177.2 | 1256.5 | 1351.5 | 1498.4 | 1611.6 | 1720.9 | 1969.3 | 2147.5 | 2152.7 | 2005.7 |
| 40°    | 1049.7 | 1110.8 | 1177.2 | 1277.3 | 1436.0 | 1547.9 | 1666.2 | 1917.3 | 2046.0 | 1969.3 | 1710.4 |
| 42.5°  | 988.5  | 1043.2 | 1095.2 | 1192.8 | 1365.8 | 1490.6 | 1618.1 | 1852.2 | 1899.1 | 1722.2 | 1452.9 |
| 45°    | 923.5  | 967.7  | 1015.9 | 1118.6 | 1291.6 | 1415.2 | 1542.7 | 1752.1 | 1703.9 | 1454.2 | 1198.0 |
| 47.5°  | 855.9  | 893.6  | 940.4  | 1034.1 | 1212.3 | 1338.4 | 1459.4 | 1609.0 | 1486.7 | 1218.8 | 1004.2 |
| 50°    | 788.2  | 818.2  | 863.7  | 959.9  | 1131.6 | 1246.1 | 1358.0 | 1455.5 | 1283.8 | 1045.8 | 829.9  |
| 52.5°  | 721.9  | 745.3  | 792.1  | 874.1  | 1040.6 | 1149.8 | 1230.5 | 1268.2 | 1093.9 | 863.7  | 720.6  |
| 55°    | 651.7  | 677.7  | 708.9  | 792.1  | 957.3  | 1038.0 | 1091.3 | 1090.0 | 910.5  | 732.3  | 595.7  |
| 57.5°  | 584.0  | 607.4  | 634.8  | 718.0  | 852.0  | 906.6  | 952.1  | 930.0  | 759.6  | 599.6  | 511.2  |
| 60°    | 524.2  | 537.2  | 567.1  | 637.4  | 738.8  | 785.6  | 811.7  | 773.9  | 620.4  | 506.0  | 422.7  |
| 62.5°  | 459.2  | 472.2  | 496.9  | 563.2  | 625.6  | 650.4  | 672.5  | 624.3  | 512.5  | 412.3  | 361.6  |
| 65°    | 399.3  | 416.2  | 431.8  | 485.2  | 519.0  | 548.9  | 546.3  | 506.0  | 400.6  | 335.6  | 294.0  |
| 67.5°  | 347.3  | 353.8  | 366.8  | 399.3  | 414.9  | 437.0  | 438.3  | 392.8  | 322.6  | 273.2  | 248.4  |
| 70°    | 291.4  | 297.9  | 307.0  | 322.6  | 333.0  | 338.2  | 335.6  | 295.3  | 243.2  | 213.3  | 191.2  |
| 72.5°  | 243.2  | 241.9  | 248.4  | 248.4  | 258.8  | 257.5  | 249.7  | 218.5  | 184.7  | 160.0  | 147.0  |
| 75°    | 191.2  | 192.5  | 193.8  | 191.2  | 187.3  | 182.1  | 175.6  | 152.2  | 130.1  | 118.4  | 106.7  |
| 77.5°  | 149.6  | 147.0  | 148.3  | 139.2  | 134.0  | 128.8  | 119.7  | 108.0  | 89.7   | 87.1   | 81.9   |
| 80°    | 106.7  | 105.4  | 104.1  | 100.2  | 88.4   | 83.2   | 76.7   | 70.2   | 66.3   | 63.7   | 62.4   |
| 82.5°  | 71.5   | 71.5   | 68.9   | 61.1   | 54.6   | 50.7   | 49.4   | 46.8   | 42.9   | 42.9   | 41.6   |
| 85°    | 42.9   | 41.6   | 39.0   | 31.2   | 27.3   | 27.3   | 27.3   | 27.3   | 24.7   | 24.7   | 23.4   |
| 87.5°  | 16.9   | 15.6   | 11.7   | 11.7   | 10.4   | 10.4   | 10.4   | 9.1    | 9.1    | 7.8    | 7.8    |
| 90°    | 0.4    | 1.4    | 2.4    | 3.3    | 4.3    | 4.8    | 5.4    | 6.7    | 8.0    | 9.2    | 10.5   |
| 92.5°  | 10.0   | 9.4    | 8.8    | 8.3    | 7.7    | 7.4    | 7.8    | 8.7    | 9.6    | 10.5   | 11.4   |
| 95°    | 26.6   | 22.6   | 18.6   | 14.7   | 10.7   | 8.7    | 9.2    | 10.3   | 11.4   | 12.4   | 13.5   |
| 97.5°  | 48.5   | 45.8   | 43.0   | 40.3   | 37.6   | 36.2   | 33.7   | 28.8   | 23.9   | 18.9   | 14.0   |
| 100°   | 73.8   | 75.7   | 77.7   | 79.6   | 81.5   | 82.5   | 74.9   | 59.8   | 44.7   | 29.5   | 14.4   |
| 102.5° | 102.6  | 103.9  | 105.1  | 106.4  | 107.7  | 108.3  | 99.9   | 83.0   | 66.1   | 49.2   | 32.3   |
| 105°   | 130.1  | 131.2  | 132.2  | 133.3  | 134.4  | 134.9  | 130.5  | 121.8  | 113.1  | 104.3  | 95.6   |
| 107.5° | 159.4  | 160.3  | 161.1  | 162.0  | 162.9  | 163.3  | 164.0  | 165.5  | 167.0  | 168.4  | 169.9  |
| 110°   | 188.6  | 189.4  | 190.2  | 190.9  | 191.7  | 192.1  | 192.6  | 193.7  | 194.8  | 195.8  | 196.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 216.6 | 217.3 | 217.9 | 218.6 | 219.3 | 219.6 | 220.1 | 221.2 | 222.3 | 223.3 | 224.4 |
| 115°   | 244.1 | 244.7 | 245.3 | 245.8 | 246.4 | 246.7 | 247.1 | 248.0 | 248.9 | 249.7 | 250.6 |
| 117.5° | 271.2 | 271.9 | 272.5 | 273.2 | 273.9 | 274.2 | 274.4 | 274.9 | 275.4 | 275.9 | 276.4 |
| 120°   | 296.1 | 297.0 | 297.8 | 298.7 | 299.6 | 300.0 | 300.1 | 300.4 | 300.7 | 301.0 | 301.3 |
| 122.5° | 321.4 | 322.1 | 322.7 | 323.4 | 324.1 | 324.4 | 324.6 | 325.0 | 325.4 | 325.8 | 326.2 |
| 125°   | 344.1 | 344.9 | 345.7 | 346.4 | 347.2 | 347.6 | 347.8 | 348.2 | 348.5 | 348.9 | 349.3 |
| 127.5° | 366.8 | 367.6 | 368.4 | 369.1 | 369.9 | 370.3 | 370.5 | 371.0 | 371.5 | 372.0 | 372.5 |
| 130°   | 387.8 | 388.6 | 389.4 | 390.1 | 390.9 | 391.3 | 391.5 | 391.9 | 392.2 | 392.6 | 393.0 |
| 132.5° | 407.8 | 408.6 | 409.4 | 410.1 | 410.9 | 411.3 | 411.5 | 411.8 | 412.1 | 412.4 | 412.7 |
| 135°   | 428.4 | 429.0 | 429.6 | 430.1 | 430.7 | 431.0 | 431.2 | 431.6 | 431.9 | 432.3 | 432.7 |
| 137.5° | 445.8 | 446.6 | 447.4 | 448.1 | 448.9 | 449.3 | 449.4 | 449.6 | 449.8 | 450.0 | 450.2 |
| 140°   | 463.3 | 463.9 | 464.5 | 465.0 | 465.6 | 465.9 | 466.0 | 466.3 | 466.6 | 466.9 | 467.2 |
| 142.5° | 479.5 | 480.1 | 480.7 | 481.2 | 481.8 | 482.1 | 482.2 | 482.5 | 482.8 | 483.1 | 483.4 |
| 145°   | 494.3 | 495.0 | 495.7 | 496.4 | 497.1 | 497.4 | 497.5 | 497.7 | 497.8 | 498.0 | 498.2 |
| 147.5° | 508.7 | 509.2 | 509.7 | 510.2 | 510.7 | 510.9 | 511.0 | 511.2 | 511.4 | 511.6 | 511.8 |
| 150°   | 521.8 | 522.1 | 522.4 | 522.7 | 523.0 | 523.1 | 523.2 | 523.4 | 523.6 | 523.8 | 524.0 |
| 152.5° | 533.6 | 533.7 | 533.8 | 533.9 | 534.0 | 534.0 | 534.1 | 534.2 | 534.3 | 534.4 | 534.5 |
| 155°   | 544.5 | 544.3 | 544.1 | 544.0 | 543.8 | 543.7 | 543.7 | 543.8 | 543.9 | 544.0 | 544.1 |
| 157.5° | 553.3 | 553.3 | 553.3 | 553.3 | 553.3 | 553.3 | 553.2 | 553.1 | 553.0 | 552.9 | 552.8 |
| 160°   | 561.1 | 561.0 | 560.9 | 560.8 | 560.7 | 560.7 | 560.6 | 560.5 | 560.4 | 560.3 | 560.2 |
| 162.5° | 568.5 | 568.2 | 567.9 | 567.6 | 567.3 | 567.2 | 567.2 | 567.1 | 567.0 | 566.9 | 566.8 |
| 165°   | 574.2 | 573.9 | 573.6 | 573.3 | 573.0 | 572.9 | 572.9 | 572.8 | 572.7 | 572.6 | 572.5 |
| 167.5° | 579.0 | 578.6 | 578.2 | 577.9 | 577.5 | 577.3 | 577.3 | 577.3 | 577.3 | 577.3 | 577.3 |
| 170°   | 583.0 | 582.6 | 582.2 | 581.8 | 581.4 | 581.2 | 581.2 | 581.2 | 581.2 | 581.2 | 581.2 |
| 172.5° | 585.6 | 585.1 | 584.6 | 584.1 | 583.6 | 583.4 | 583.4 | 583.5 | 583.6 | 583.7 | 583.8 |
| 175°   | 587.8 | 587.3 | 586.8 | 586.3 | 585.8 | 585.6 | 585.6 | 585.7 | 585.8 | 585.9 | 586.0 |
| 177.5° | 588.6 | 588.1 | 587.6 | 587.1 | 586.6 | 586.4 | 586.5 | 586.6 | 586.7 | 586.8 | 586.9 |
| 180°   | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1603.8 | 1603.8 | 1615.5 | 1627.2 | 1620.7 | 1624.6 | 1638.9 | 1633.7 | 1644.1 | 1642.8 | 1646.7 |
| 5°     | 1724.8 | 1739.1 | 1750.8 | 1775.5 | 1779.4 | 1775.5 | 1800.2 | 1806.7 | 1818.4 | 1804.1 | 1810.6 |
| 7.5°   | 1861.3 | 1891.2 | 1919.9 | 1956.3 | 1968.0 | 1970.6 | 1983.6 | 2001.8 | 2017.4 | 1988.8 | 2003.1 |
| 10°    | 1994.0 | 2039.5 | 2098.1 | 2130.6 | 2159.2 | 2169.6 | 2180.0 | 2191.7 | 2209.9 | 2226.8 | 2213.8 |
| 12.5°  | 2137.1 | 2203.4 | 2259.4 | 2317.9 | 2353.0 | 2349.1 | 2379.0 | 2386.8 | 2401.1 | 2405.0 | 2410.2 |
| 15°    | 2254.2 | 2347.8 | 2382.9 | 2470.1 | 2477.9 | 2503.9 | 2537.7 | 2567.6 | 2571.5 | 2563.7 | 2563.7 |
| 17.5°  | 2366.0 | 2446.7 | 2509.1 | 2579.3 | 2593.6 | 2615.8 | 2658.7 | 2673.0 | 2678.2 | 2676.9 | 2676.9 |
| 20°    | 2457.1 | 2510.4 | 2615.8 | 2674.3 | 2697.7 | 2726.3 | 2756.2 | 2774.4 | 2778.3 | 2783.5 | 2775.7 |
| 22.5°  | 2516.9 | 2597.5 | 2683.4 | 2731.5 | 2751.0 | 2761.4 | 2780.9 | 2786.1 | 2779.6 | 2780.9 | 2782.2 |
| 25°    | 2563.7 | 2643.1 | 2695.1 | 2708.1 | 2706.8 | 2693.8 | 2679.5 | 2654.8 | 2652.2 | 2641.8 | 2621.0 |
| 27.5°  | 2576.7 | 2606.6 | 2600.1 | 2546.8 | 2493.5 | 2488.3 | 2402.4 | 2355.6 | 2302.3 | 2310.1 | 2280.2 |
| 30°    | 2506.5 | 2467.5 | 2375.1 | 2239.8 | 2183.9 | 2092.9 | 1996.6 | 1896.5 | 1857.4 | 1814.5 | 1893.9 |
| 32.5°  | 2334.8 | 2195.6 | 2031.7 | 1856.1 | 1762.5 | 1681.8 | 1579.1 | 1506.2 | 1464.6 | 1429.5 | 1497.1 |
| 35°    | 2076.0 | 1858.7 | 1641.5 | 1475.0 | 1398.3 | 1325.4 | 1229.2 | 1192.8 | 1140.7 | 1145.9 | 1152.4 |
| 37.5°  | 1743.0 | 1503.6 | 1339.7 | 1175.9 | 1125.1 | 1095.2 | 1025.0 | 969.0  | 950.8  | 945.6  | 945.6  |
| 40°    | 1430.8 | 1234.4 | 1088.7 | 959.9  | 920.9  | 896.2  | 840.3  | 814.3  | 794.7  | 789.5  | 796.0  |
| 42.5°  | 1183.7 | 1015.9 | 902.7  | 816.9  | 789.5  | 758.3  | 734.9  | 702.4  | 698.5  | 689.4  | 701.1  |
| 45°    | 993.8  | 848.1  | 763.5  | 701.1  | 677.7  | 666.0  | 640.0  | 620.4  | 612.6  | 611.3  | 620.4  |
| 47.5°  | 842.9  | 729.7  | 655.6  | 616.5  | 598.3  | 586.6  | 564.5  | 556.7  | 548.9  | 551.5  | 547.6  |
| 50°    | 707.6  | 623.0  | 574.9  | 539.8  | 528.1  | 516.4  | 502.1  | 494.3  | 490.4  | 490.4  | 489.1  |
| 52.5°  | 607.4  | 537.2  | 506.0  | 473.5  | 468.3  | 461.8  | 446.1  | 440.9  | 434.4  | 433.1  | 438.3  |
| 55°    | 520.3  | 472.2  | 440.9  | 421.4  | 416.2  | 403.2  | 396.7  | 390.2  | 386.3  | 383.7  | 385.0  |
| 57.5°  | 444.8  | 408.4  | 387.6  | 370.7  | 361.6  | 356.4  | 344.7  | 343.4  | 340.8  | 340.8  | 339.5  |
| 60°    | 382.4  | 356.4  | 331.7  | 321.3  | 314.8  | 308.3  | 307.0  | 299.2  | 295.3  | 297.9  | 296.6  |
| 62.5°  | 323.9  | 303.1  | 288.8  | 277.1  | 273.2  | 267.9  | 264.0  | 261.4  | 257.5  | 258.8  | 258.8  |
| 65°    | 270.6  | 253.6  | 243.2  | 232.8  | 231.5  | 226.3  | 225.0  | 222.4  | 222.4  | 221.1  | 223.7  |
| 67.5°  | 222.4  | 210.7  | 201.6  | 195.1  | 191.2  | 192.5  | 187.3  | 183.4  | 183.4  | 182.1  | 186.0  |
| 70°    | 176.9  | 170.4  | 161.3  | 153.5  | 148.3  | 148.3  | 141.8  | 140.5  | 140.5  | 140.5  | 139.2  |
| 72.5°  | 136.6  | 124.9  | 121.0  | 118.4  | 118.4  | 118.4  | 115.8  | 115.8  | 114.5  | 115.8  | 114.5  |
| 75°    | 101.5  | 100.2  | 97.6   | 96.3   | 96.3   | 95.0   | 93.7   | 93.7   | 93.7   | 93.7   | 93.7   |
| 77.5°  | 79.3   | 79.3   | 76.7   | 75.4   | 75.4   | 75.4   | 74.1   | 74.1   | 72.8   | 72.8   | 72.8   |
| 80°    | 58.5   | 58.5   | 55.9   | 55.9   | 55.9   | 54.6   | 54.6   | 54.6   | 55.9   | 54.6   | 54.6   |
| 82.5°  | 40.3   | 40.3   | 39.0   | 40.3   | 39.0   | 37.7   | 37.7   | 37.7   | 36.4   | 37.7   | 37.7   |
| 85°    | 23.4   | 23.4   | 22.1   | 20.8   | 22.1   | 22.1   | 20.8   | 22.1   | 20.8   | 22.1   | 20.8   |
| 87.5°  | 9.1    | 7.8    | 7.8    | 7.8    | 6.5    | 7.8    | 6.5    | 6.5    | 7.8    | 6.5    | 7.8    |
| 90°    | 10.9   | 11.3   | 11.6   | 12.0   | 12.2   | 12.3   | 12.5   | 12.7   | 12.9   | 13.1   | 12.9   |
| 92.5°  | 12.1   | 12.7   | 13.4   | 14.1   | 14.4   | 14.4   | 14.5   | 14.6   | 14.7   | 14.8   | 14.7   |
| 95°    | 14.2   | 14.9   | 15.6   | 16.3   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 97.5°  | 14.8   | 15.6   | 16.3   | 17.1   | 17.5   | 17.5   | 17.6   | 17.7   | 17.8   | 17.9   | 17.8   |
| 100°   | 15.2   | 16.0   | 16.7   | 17.5   | 17.9   | 17.9   | 18.0   | 18.1   | 18.2   | 18.3   | 18.2   |
| 102.5° | 29.1   | 25.9   | 22.7   | 19.5   | 17.9   | 18.0   | 18.2   | 18.4   | 18.6   | 18.8   | 18.6   |
| 105°   | 78.4   | 61.2   | 44.1   | 26.9   | 18.3   | 18.4   | 18.6   | 18.8   | 19.0   | 19.2   | 19.0   |
| 107.5° | 154.9  | 140.0  | 125.0  | 110.1  | 102.6  | 96.2   | 83.5   | 70.8   | 58.1   | 45.4   | 58.1   |
| 110°   | 193.7  | 190.5  | 187.3  | 184.1  | 182.5  | 175.6  | 161.7  | 147.8  | 134.0  | 120.1  | 134.0  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 225.3 | 226.2 | 227.1 | 228.0 | 228.4 | 228.3 | 228.1 | 227.9 | 227.7 | 227.5 | 227.7 |
| 115°   | 251.6 | 252.6 | 253.5 | 254.5 | 255.0 | 255.2 | 255.6 | 256.0 | 256.4 | 256.8 | 256.4 |
| 117.5° | 277.2 | 278.0 | 278.7 | 279.5 | 279.9 | 279.9 | 280.0 | 280.1 | 280.2 | 280.3 | 280.2 |
| 120°   | 302.1 | 302.9 | 303.6 | 304.4 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 |
| 122.5° | 326.7 | 327.2 | 327.7 | 328.2 | 328.4 | 328.4 | 328.5 | 328.6 | 328.7 | 328.8 | 328.7 |
| 125°   | 349.5 | 349.7 | 349.9 | 350.1 | 350.2 | 350.3 | 350.5 | 350.7 | 350.9 | 351.1 | 350.9 |
| 127.5° | 372.8 | 373.1 | 373.4 | 373.7 | 373.8 | 373.7 | 373.5 | 373.3 | 373.1 | 372.9 | 373.1 |
| 130°   | 393.4 | 393.8 | 394.1 | 394.5 | 394.7 | 394.6 | 394.4 | 394.3 | 394.1 | 393.9 | 394.1 |
| 132.5° | 413.1 | 413.5 | 413.8 | 414.2 | 414.4 | 414.3 | 414.0 | 413.7 | 413.4 | 413.1 | 413.4 |
| 135°   | 433.0 | 433.3 | 433.6 | 433.9 | 434.0 | 433.9 | 433.6 | 433.3 | 433.0 | 432.7 | 433.0 |
| 137.5° | 450.7 | 451.2 | 451.7 | 452.2 | 452.4 | 452.3 | 452.1 | 451.9 | 451.7 | 451.5 | 451.7 |
| 140°   | 467.6 | 468.0 | 468.4 | 468.8 | 469.0 | 468.9 | 468.7 | 468.5 | 468.3 | 468.1 | 468.3 |
| 142.5° | 483.7 | 484.0 | 484.3 | 484.6 | 484.7 | 484.6 | 484.3 | 484.0 | 483.7 | 483.4 | 483.7 |
| 145°   | 498.4 | 498.6 | 498.8 | 499.0 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 |
| 147.5° | 512.0 | 512.2 | 512.3 | 512.5 | 512.6 | 512.4 | 511.9 | 511.4 | 511.0 | 510.5 | 511.0 |
| 150°   | 524.2 | 524.4 | 524.6 | 524.8 | 524.9 | 524.8 | 524.5 | 524.2 | 523.9 | 523.6 | 523.9 |
| 152.5° | 534.9 | 535.3 | 535.6 | 536.0 | 536.2 | 536.0 | 535.5 | 535.0 | 534.5 | 534.0 | 534.5 |
| 155°   | 544.6 | 545.1 | 545.6 | 546.1 | 546.3 | 546.0 | 545.4 | 544.9 | 544.3 | 543.7 | 544.3 |
| 157.5° | 553.4 | 554.0 | 554.5 | 555.1 | 555.4 | 555.0 | 554.2 | 553.5 | 552.7 | 551.9 | 552.7 |
| 160°   | 560.8 | 561.4 | 562.0 | 562.6 | 562.9 | 562.6 | 561.9 | 561.2 | 560.5 | 559.8 | 560.5 |
| 162.5° | 567.5 | 568.2 | 568.9 | 569.6 | 569.9 | 569.6 | 569.0 | 568.4 | 567.8 | 567.2 | 567.8 |
| 165°   | 573.3 | 574.1 | 574.8 | 575.6 | 576.0 | 575.7 | 575.0 | 574.3 | 573.6 | 572.9 | 573.6 |
| 167.5° | 578.1 | 578.9 | 579.6 | 580.4 | 580.8 | 580.4 | 579.6 | 578.9 | 578.1 | 577.3 | 578.1 |
| 170°   | 582.0 | 582.8 | 583.5 | 584.3 | 584.7 | 584.3 | 583.5 | 582.8 | 582.0 | 581.2 | 582.0 |
| 172.5° | 584.6 | 585.4 | 586.1 | 586.9 | 587.3 | 586.9 | 586.0 | 585.1 | 584.3 | 583.4 | 584.3 |
| 175°   | 586.7 | 587.4 | 588.1 | 588.8 | 589.1 | 588.7 | 587.9 | 587.2 | 586.4 | 585.6 | 586.4 |
| 177.5° | 587.7 | 588.5 | 589.2 | 590.0 | 590.4 | 589.9 | 588.9 | 588.0 | 587.0 | 586.0 | 587.0 |
| 180°   | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4FO-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1640.2 | 1632.4 | 1627.2 | 1623.3 | 1619.4 | 1631.1 | 1615.5 | 1598.6 | 1586.9 | 1579.1 | 1576.5 |
| 5°     | 1811.9 | 1795.0 | 1780.7 | 1769.0 | 1771.6 | 1771.6 | 1744.3 | 1714.4 | 1688.3 | 1674.0 | 1658.4 |
| 7.5°   | 2010.9 | 1992.7 | 1964.1 | 1957.6 | 1952.4 | 1919.9 | 1892.6 | 1837.9 | 1805.4 | 1772.9 | 1744.3 |
| 10°    | 2208.6 | 2185.2 | 2157.9 | 2148.8 | 2135.8 | 2095.5 | 2053.8 | 1983.6 | 1943.3 | 1883.4 | 1845.7 |
| 12.5°  | 2393.3 | 2364.7 | 2337.4 | 2330.9 | 2311.4 | 2276.3 | 2204.7 | 2131.9 | 2062.9 | 1999.2 | 1932.9 |
| 15°    | 2548.1 | 2540.3 | 2498.7 | 2472.7 | 2429.7 | 2381.6 | 2366.0 | 2267.2 | 2180.0 | 2113.7 | 1994.0 |
| 17.5°  | 2678.2 | 2641.8 | 2602.7 | 2585.8 | 2568.9 | 2513.0 | 2457.1 | 2355.6 | 2262.0 | 2164.4 | 2087.7 |
| 20°    | 2782.2 | 2741.9 | 2714.6 | 2689.9 | 2682.1 | 2618.4 | 2529.9 | 2440.2 | 2337.4 | 2228.1 | 2128.0 |
| 22.5°  | 2787.4 | 2782.2 | 2764.0 | 2749.7 | 2734.1 | 2692.5 | 2622.3 | 2510.4 | 2401.1 | 2281.5 | 2150.1 |
| 25°    | 2679.5 | 2671.7 | 2723.7 | 2710.7 | 2721.1 | 2705.5 | 2667.8 | 2574.1 | 2446.7 | 2306.2 | 2173.5 |
| 27.5°  | 2354.3 | 2433.7 | 2515.6 | 2544.2 | 2563.7 | 2619.7 | 2637.9 | 2585.8 | 2483.1 | 2333.5 | 2185.2 |
| 30°    | 1912.1 | 2017.4 | 2150.1 | 2221.6 | 2276.3 | 2380.3 | 2515.6 | 2532.5 | 2484.4 | 2364.7 | 2182.6 |
| 32.5°  | 1501.0 | 1597.3 | 1703.9 | 1788.5 | 1861.3 | 2074.7 | 2256.8 | 2388.1 | 2411.5 | 2349.1 | 2189.1 |
| 35°    | 1209.7 | 1251.3 | 1352.8 | 1433.4 | 1532.3 | 1714.4 | 1929.0 | 2141.0 | 2284.1 | 2291.9 | 2169.6 |
| 37.5°  | 997.7  | 1019.8 | 1108.2 | 1153.7 | 1212.3 | 1372.3 | 1572.6 | 1849.6 | 2072.1 | 2177.4 | 2115.0 |
| 40°    | 826.0  | 876.7  | 927.4  | 953.4  | 995.1  | 1105.6 | 1298.1 | 1515.3 | 1791.1 | 1986.2 | 2030.4 |
| 42.5°  | 716.7  | 738.8  | 771.3  | 807.7  | 833.8  | 930.0  | 1058.8 | 1257.8 | 1506.2 | 1778.1 | 1900.4 |
| 45°    | 632.2  | 640.0  | 673.8  | 697.2  | 724.5  | 792.1  | 883.2  | 1049.7 | 1268.2 | 1536.2 | 1744.3 |
| 47.5°  | 561.9  | 577.5  | 595.7  | 610.0  | 628.2  | 680.3  | 758.3  | 879.3  | 1071.8 | 1311.1 | 1534.9 |
| 50°    | 499.5  | 508.6  | 532.0  | 538.5  | 551.5  | 587.9  | 647.8  | 740.1  | 898.8  | 1090.0 | 1321.5 |
| 52.5°  | 440.9  | 457.9  | 467.0  | 476.1  | 487.8  | 517.7  | 556.7  | 632.2  | 751.8  | 931.3  | 1127.7 |
| 55°    | 395.4  | 400.6  | 413.6  | 421.4  | 430.5  | 451.4  | 485.2  | 541.1  | 634.8  | 777.8  | 963.8  |
| 57.5°  | 351.2  | 351.2  | 364.2  | 370.7  | 379.8  | 395.4  | 425.3  | 468.3  | 535.9  | 642.6  | 813.0  |
| 60°    | 304.4  | 305.7  | 316.1  | 323.9  | 326.5  | 342.1  | 366.8  | 400.6  | 452.7  | 530.7  | 669.9  |
| 62.5°  | 262.7  | 269.2  | 274.5  | 277.1  | 286.2  | 295.3  | 316.1  | 339.5  | 375.9  | 444.8  | 543.7  |
| 65°    | 227.6  | 228.9  | 232.8  | 235.4  | 239.3  | 249.7  | 265.3  | 281.0  | 312.2  | 362.9  | 443.5  |
| 67.5°  | 187.3  | 192.5  | 197.7  | 197.7  | 201.6  | 206.8  | 222.4  | 235.4  | 258.8  | 288.8  | 343.4  |
| 70°    | 140.5  | 143.1  | 150.9  | 154.8  | 160.0  | 169.1  | 176.9  | 184.7  | 202.9  | 225.0  | 266.6  |
| 72.5°  | 117.1  | 117.1  | 119.7  | 121.0  | 121.0  | 127.5  | 139.2  | 147.0  | 156.1  | 171.7  | 200.3  |
| 75°    | 93.7   | 93.7   | 97.6   | 96.3   | 98.9   | 101.5  | 102.8  | 108.0  | 113.2  | 124.9  | 141.8  |
| 77.5°  | 74.1   | 75.4   | 75.4   | 76.7   | 76.7   | 78.0   | 79.3   | 81.9   | 84.5   | 91.1   | 98.9   |
| 80°    | 54.6   | 55.9   | 55.9   | 57.2   | 57.2   | 58.5   | 59.8   | 61.1   | 63.7   | 66.3   | 70.2   |
| 82.5°  | 37.7   | 39.0   | 39.0   | 40.3   | 39.0   | 40.3   | 41.6   | 41.6   | 42.9   | 45.5   | 46.8   |
| 85°    | 22.1   | 22.1   | 23.4   | 22.1   | 22.1   | 22.1   | 23.4   | 23.4   | 24.7   | 28.6   | 28.6   |
| 87.5°  | 6.5    | 7.8    | 6.5    | 7.8    | 7.8    | 7.8    | 7.8    | 9.1    | 9.1    | 10.4   | 11.7   |
| 90°    | 12.7   | 12.5   | 12.3   | 12.2   | 12.0   | 11.6   | 11.3   | 10.9   | 10.5   | 9.2    | 8.0    |
| 92.5°  | 14.6   | 14.5   | 14.4   | 14.4   | 14.1   | 13.4   | 12.7   | 12.1   | 11.4   | 10.5   | 9.6    |
| 95°    | 16.6   | 16.6   | 16.6   | 16.6   | 16.3   | 15.6   | 14.9   | 14.2   | 13.5   | 12.4   | 11.4   |
| 97.5°  | 17.7   | 17.6   | 17.5   | 17.5   | 17.1   | 16.3   | 15.6   | 14.8   | 14.0   | 18.9   | 23.9   |
| 100°   | 18.1   | 18.0   | 17.9   | 17.9   | 17.5   | 16.7   | 16.0   | 15.2   | 14.4   | 29.5   | 44.7   |
| 102.5° | 18.4   | 18.2   | 18.0   | 17.9   | 19.5   | 22.7   | 25.9   | 29.1   | 32.3   | 49.2   | 66.1   |
| 105°   | 18.8   | 18.6   | 18.4   | 18.3   | 26.9   | 44.1   | 61.2   | 78.4   | 95.6   | 104.3  | 113.1  |
| 107.5° | 70.8   | 83.5   | 96.2   | 102.6  | 110.1  | 125.0  | 140.0  | 154.9  | 169.9  | 168.4  | 167.0  |
| 110°   | 147.8  | 161.7  | 175.6  | 182.5  | 184.1  | 187.3  | 190.5  | 193.7  | 196.9  | 195.8  | 194.8  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 227.9 | 228.1 | 228.3 | 228.4  | 228.0 | 227.1 | 226.2 | 225.3 | 224.4 | 223.3 | 222.3 |
| 115°   | 256.0 | 255.6 | 255.2 | 255.0  | 254.5 | 253.5 | 252.6 | 251.6 | 250.6 | 249.7 | 248.9 |
| 117.5° | 280.1 | 280.0 | 279.9 | 279.9  | 279.5 | 278.7 | 278.0 | 277.2 | 276.4 | 275.9 | 275.4 |
| 120°   | 304.8 | 304.8 | 304.8 | 304.8  | 304.4 | 303.6 | 302.9 | 302.1 | 301.3 | 301.0 | 300.7 |
| 122.5° | 328.6 | 328.5 | 328.4 | 328.4  | 328.2 | 327.7 | 327.2 | 326.7 | 326.2 | 325.8 | 325.4 |
| 125°   | 350.7 | 350.5 | 350.3 | 350.2  | 350.1 | 349.9 | 349.7 | 349.5 | 349.3 | 348.9 | 348.5 |
| 127.5° | 373.3 | 373.5 | 373.7 | 373.8  | 373.7 | 373.4 | 373.1 | 372.8 | 372.5 | 372.0 | 371.5 |
| 130°   | 394.3 | 394.4 | 394.6 | 394.7  | 394.5 | 394.1 | 393.8 | 393.4 | 393.0 | 392.6 | 392.2 |
| 132.5° | 413.7 | 414.0 | 414.3 | 414.4  | 414.2 | 413.8 | 413.5 | 413.1 | 412.7 | 412.4 | 412.1 |
| 135°   | 433.3 | 433.6 | 433.9 | 434.0  | 433.9 | 433.6 | 433.3 | 433.0 | 432.7 | 432.3 | 431.9 |
| 137.5° | 451.9 | 452.1 | 452.3 | 452.4  | 452.2 | 451.7 | 451.2 | 450.7 | 450.2 | 450.0 | 449.8 |
| 140°   | 468.5 | 468.7 | 468.9 | 469.0  | 468.8 | 468.4 | 468.0 | 467.6 | 467.2 | 466.9 | 466.6 |
| 142.5° | 484.0 | 484.3 | 484.6 | 484.7  | 484.6 | 484.3 | 484.0 | 483.7 | 483.4 | 483.1 | 482.8 |
| 145°   | 499.1 | 499.1 | 499.1 | 499.1  | 499.0 | 498.8 | 498.6 | 498.4 | 498.2 | 498.0 | 497.8 |
| 147.5° | 511.4 | 511.9 | 512.4 | 512.6  | 512.5 | 512.3 | 512.2 | 512.0 | 511.8 | 511.6 | 511.4 |
| 150°   | 524.2 | 524.5 | 524.8 | 524.9  | 524.8 | 524.6 | 524.4 | 524.2 | 524.0 | 523.8 | 523.6 |
| 152.5° | 535.0 | 535.5 | 536.0 | 536.2  | 536.0 | 535.6 | 535.3 | 534.9 | 534.5 | 534.4 | 534.3 |
| 155°   | 544.9 | 545.4 | 546.0 | 546.3  | 546.1 | 545.6 | 545.1 | 544.6 | 544.1 | 544.0 | 543.9 |
| 157.5° | 553.5 | 554.2 | 555.0 | 555.4  | 555.1 | 554.5 | 554.0 | 553.4 | 552.8 | 552.9 | 553.0 |
| 160°   | 561.2 | 561.9 | 562.6 | 562.9  | 562.6 | 562.0 | 561.4 | 560.8 | 560.2 | 560.3 | 560.4 |
| 162.5° | 568.4 | 569.0 | 569.6 | 569.9  | 569.6 | 568.9 | 568.2 | 567.5 | 566.8 | 566.9 | 567.0 |
| 165°   | 574.3 | 575.0 | 575.7 | 576.0  | 575.6 | 574.8 | 574.1 | 573.3 | 572.5 | 572.6 | 572.7 |
| 167.5° | 578.9 | 579.6 | 580.4 | 580.8  | 580.4 | 579.6 | 578.9 | 578.1 | 577.3 | 577.3 | 577.3 |
| 170°   | 582.8 | 583.5 | 584.3 | 584.7  | 584.3 | 583.5 | 582.8 | 582.0 | 581.2 | 581.2 | 581.2 |
| 172.5° | 585.1 | 586.0 | 586.9 | 587.3  | 586.9 | 586.1 | 585.4 | 584.6 | 583.8 | 583.7 | 583.6 |
| 175°   | 587.2 | 587.9 | 588.7 | 589.1  | 588.8 | 588.1 | 587.4 | 586.7 | 586.0 | 585.9 | 585.8 |
| 177.5° | 588.0 | 588.9 | 589.9 | 590.4  | 590.0 | 589.2 | 588.5 | 587.7 | 586.9 | 586.8 | 586.7 |
| 180°   | 587.8 | 587.8 | 587.8 | 587.8  | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1572.6 | 1566.1 | 1559.6 | 1559.6 | 1545.3 | 1532.3 | 1525.7 | 1528.3 | 1520.5 | 1510.1 | 1499.7 |
| 5°     | 1641.5 | 1615.5 | 1610.3 | 1596.0 | 1576.5 | 1549.2 | 1534.9 | 1521.8 | 1506.2 | 1485.4 | 1465.9 |
| 7.5°   | 1705.2 | 1671.4 | 1653.2 | 1638.9 | 1601.2 | 1563.5 | 1532.3 | 1511.4 | 1484.1 | 1452.9 | 1429.5 |
| 10°    | 1788.5 | 1726.1 | 1706.5 | 1674.0 | 1620.7 | 1567.4 | 1530.9 | 1497.1 | 1459.4 | 1423.0 | 1391.8 |
| 12.5°  | 1854.8 | 1783.3 | 1746.9 | 1714.4 | 1645.4 | 1577.8 | 1516.6 | 1475.0 | 1429.5 | 1389.2 | 1348.8 |
| 15°    | 1930.3 | 1849.6 | 1785.9 | 1746.9 | 1659.7 | 1577.8 | 1508.8 | 1450.3 | 1399.6 | 1350.1 | 1315.0 |
| 17.5°  | 1966.7 | 1865.2 | 1836.6 | 1780.7 | 1654.5 | 1572.6 | 1488.0 | 1425.6 | 1364.5 | 1307.2 | 1265.6 |
| 20°    | 2023.9 | 1905.6 | 1834.0 | 1796.3 | 1684.4 | 1563.5 | 1464.6 | 1393.1 | 1329.3 | 1268.2 | 1224.0 |
| 22.5°  | 2027.8 | 1899.1 | 1852.2 | 1780.7 | 1642.8 | 1536.2 | 1443.8 | 1356.7 | 1282.5 | 1225.3 | 1179.8 |
| 25°    | 2018.7 | 1887.3 | 1822.3 | 1765.1 | 1650.6 | 1520.5 | 1402.2 | 1316.3 | 1243.5 | 1177.2 | 1123.8 |
| 27.5°  | 2014.8 | 1853.5 | 1792.4 | 1735.2 | 1606.4 | 1475.0 | 1377.5 | 1279.9 | 1196.7 | 1138.1 | 1083.5 |
| 30°    | 2009.6 | 1817.1 | 1743.0 | 1676.6 | 1558.3 | 1439.9 | 1322.8 | 1238.3 | 1158.9 | 1084.8 | 1030.2 |
| 32.5°  | 1975.8 | 1767.7 | 1692.2 | 1622.0 | 1494.5 | 1376.2 | 1283.8 | 1194.1 | 1108.2 | 1039.3 | 989.8  |
| 35°    | 1965.4 | 1722.2 | 1623.3 | 1547.9 | 1423.0 | 1317.6 | 1220.1 | 1145.9 | 1065.3 | 996.4  | 937.8  |
| 37.5°  | 1935.5 | 1675.3 | 1568.7 | 1472.4 | 1342.3 | 1242.2 | 1170.6 | 1096.5 | 1018.5 | 944.3  | 897.5  |
| 40°    | 1883.4 | 1620.7 | 1499.7 | 1400.9 | 1266.9 | 1165.4 | 1099.1 | 1044.5 | 967.7  | 901.4  | 844.2  |
| 42.5°  | 1806.7 | 1564.8 | 1434.7 | 1330.6 | 1182.4 | 1087.4 | 1032.8 | 980.7  | 915.7  | 846.8  | 799.9  |
| 45°    | 1718.3 | 1490.6 | 1369.7 | 1253.9 | 1103.0 | 1010.7 | 953.4  | 922.2  | 862.4  | 803.8  | 749.2  |
| 47.5°  | 1597.3 | 1413.9 | 1294.2 | 1174.6 | 1021.1 | 931.3  | 885.8  | 854.6  | 813.0  | 749.2  | 705.0  |
| 50°    | 1445.1 | 1315.0 | 1201.9 | 1095.2 | 940.4  | 854.6  | 809.0  | 785.6  | 750.5  | 705.0  | 662.1  |
| 52.5°  | 1276.0 | 1200.6 | 1106.9 | 1008.1 | 858.5  | 777.8  | 736.2  | 718.0  | 692.0  | 649.1  | 612.6  |
| 55°    | 1105.6 | 1073.1 | 1009.4 | 911.8  | 772.6  | 706.3  | 669.9  | 646.5  | 626.9  | 595.7  | 564.5  |
| 57.5°  | 953.4  | 937.8  | 893.6  | 818.2  | 701.1  | 632.2  | 600.9  | 585.3  | 569.7  | 546.3  | 515.1  |
| 60°    | 796.0  | 813.0  | 767.4  | 729.7  | 623.0  | 563.2  | 535.9  | 519.0  | 511.2  | 490.4  | 470.9  |
| 62.5°  | 659.5  | 675.1  | 649.1  | 620.4  | 545.0  | 491.7  | 474.8  | 459.2  | 454.0  | 435.7  | 416.2  |
| 65°    | 535.9  | 555.4  | 535.9  | 520.3  | 474.8  | 430.5  | 409.7  | 401.9  | 396.7  | 385.0  | 369.4  |
| 67.5°  | 426.6  | 446.1  | 437.0  | 417.5  | 403.2  | 366.8  | 355.1  | 347.3  | 344.7  | 335.6  | 322.6  |
| 70°    | 321.3  | 348.6  | 351.2  | 339.5  | 326.5  | 309.6  | 301.8  | 299.2  | 292.7  | 284.9  | 277.1  |
| 72.5°  | 231.5  | 262.7  | 264.0  | 264.0  | 256.2  | 256.2  | 248.4  | 244.5  | 244.5  | 236.7  | 227.6  |
| 75°    | 170.4  | 191.2  | 193.8  | 196.4  | 200.3  | 204.2  | 199.0  | 199.0  | 197.7  | 189.9  | 186.0  |
| 77.5°  | 113.2  | 131.4  | 137.9  | 147.0  | 152.2  | 152.2  | 154.8  | 157.4  | 154.8  | 150.9  | 148.3  |
| 80°    | 72.8   | 85.8   | 93.7   | 98.9   | 106.7  | 110.6  | 114.5  | 115.8  | 113.2  | 111.9  | 108.0  |
| 82.5°  | 48.1   | 52.0   | 55.9   | 62.4   | 71.5   | 78.0   | 78.0   | 76.7   | 79.3   | 78.0   | 76.7   |
| 85°    | 27.3   | 29.9   | 31.2   | 32.5   | 37.7   | 44.2   | 45.5   | 46.8   | 49.4   | 46.8   | 44.2   |
| 87.5°  | 10.4   | 11.7   | 11.7   | 11.7   | 14.3   | 15.6   | 19.5   | 24.7   | 23.4   | 20.8   | 20.8   |
| 90°    | 6.7    | 5.4    | 4.8    | 4.3    | 3.3    | 2.4    | 1.4    | 0.4    | 1.4    | 2.4    | 3.3    |
| 92.5°  | 8.7    | 7.8    | 7.4    | 7.7    | 8.3    | 8.8    | 9.4    | 10.0   | 9.4    | 8.8    | 8.3    |
| 95°    | 10.3   | 9.2    | 8.7    | 10.7   | 14.7   | 18.6   | 22.6   | 26.6   | 22.6   | 18.6   | 14.7   |
| 97.5°  | 28.8   | 33.7   | 36.2   | 37.6   | 40.3   | 43.0   | 45.8   | 48.5   | 45.8   | 43.0   | 40.3   |
| 100°   | 59.8   | 74.9   | 82.5   | 81.5   | 79.6   | 77.7   | 75.7   | 73.8   | 75.7   | 77.7   | 79.6   |
| 102.5° | 83.0   | 99.9   | 108.3  | 107.7  | 106.4  | 105.1  | 103.9  | 102.6  | 103.9  | 105.1  | 106.4  |
| 105°   | 121.8  | 130.5  | 134.9  | 134.4  | 133.3  | 132.2  | 131.2  | 130.1  | 131.2  | 132.2  | 133.3  |
| 107.5° | 165.5  | 164.0  | 163.3  | 162.9  | 162.0  | 161.1  | 160.3  | 159.4  | 160.3  | 161.1  | 162.0  |
| 110°   | 193.7  | 192.6  | 192.1  | 191.7  | 190.9  | 190.2  | 189.4  | 188.6  | 189.4  | 190.2  | 190.9  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 221.2 | 220.1 | 219.6  | 219.3 | 218.6 | 217.9 | 217.3 | 216.6 | 217.3 | 217.9 | 218.6 |
| 115°   | 248.0 | 247.1 | 246.7  | 246.4 | 245.8 | 245.3 | 244.7 | 244.1 | 244.7 | 245.3 | 245.8 |
| 117.5° | 274.9 | 274.4 | 274.2  | 273.9 | 273.2 | 272.5 | 271.9 | 271.2 | 271.9 | 272.5 | 273.2 |
| 120°   | 300.4 | 300.1 | 300.0  | 299.6 | 298.7 | 297.8 | 297.0 | 296.1 | 297.0 | 297.8 | 298.7 |
| 122.5° | 325.0 | 324.6 | 324.4  | 324.1 | 323.4 | 322.7 | 322.1 | 321.4 | 322.1 | 322.7 | 323.4 |
| 125°   | 348.2 | 347.8 | 347.6  | 347.2 | 346.4 | 345.7 | 344.9 | 344.1 | 344.9 | 345.7 | 346.4 |
| 127.5° | 371.0 | 370.5 | 370.3  | 369.9 | 369.1 | 368.4 | 367.6 | 366.8 | 367.6 | 368.4 | 369.1 |
| 130°   | 391.9 | 391.5 | 391.3  | 390.9 | 390.1 | 389.4 | 388.6 | 387.8 | 388.6 | 389.4 | 390.1 |
| 132.5° | 411.8 | 411.5 | 411.3  | 410.9 | 410.1 | 409.4 | 408.6 | 407.8 | 408.6 | 409.4 | 410.1 |
| 135°   | 431.6 | 431.2 | 431.0  | 430.7 | 430.1 | 429.6 | 429.0 | 428.4 | 429.0 | 429.6 | 430.1 |
| 137.5° | 449.6 | 449.4 | 449.3  | 448.9 | 448.1 | 447.4 | 446.6 | 445.8 | 446.6 | 447.4 | 448.1 |
| 140°   | 466.3 | 466.0 | 465.9  | 465.6 | 465.0 | 464.5 | 463.9 | 463.3 | 463.9 | 464.5 | 465.0 |
| 142.5° | 482.5 | 482.2 | 482.1  | 481.8 | 481.2 | 480.7 | 480.1 | 479.5 | 480.1 | 480.7 | 481.2 |
| 145°   | 497.7 | 497.5 | 497.4  | 497.1 | 496.4 | 495.7 | 495.0 | 494.3 | 495.0 | 495.7 | 496.4 |
| 147.5° | 511.2 | 511.0 | 510.9  | 510.7 | 510.2 | 509.7 | 509.2 | 508.7 | 509.2 | 509.7 | 510.2 |
| 150°   | 523.4 | 523.2 | 523.1  | 523.0 | 522.7 | 522.4 | 522.1 | 521.8 | 522.1 | 522.4 | 522.7 |
| 152.5° | 534.2 | 534.1 | 534.0  | 534.0 | 533.9 | 533.8 | 533.7 | 533.6 | 533.7 | 533.8 | 533.9 |
| 155°   | 543.8 | 543.7 | 543.7  | 543.8 | 544.0 | 544.1 | 544.3 | 544.5 | 544.3 | 544.1 | 544.0 |
| 157.5° | 553.1 | 553.2 | 553.3  | 553.3 | 553.3 | 553.3 | 553.3 | 553.3 | 553.3 | 553.3 | 553.3 |
| 160°   | 560.5 | 560.6 | 560.7  | 560.7 | 560.8 | 560.9 | 561.0 | 561.1 | 561.0 | 560.9 | 560.8 |
| 162.5° | 567.1 | 567.2 | 567.2  | 567.3 | 567.6 | 567.9 | 568.2 | 568.5 | 568.2 | 567.9 | 567.6 |
| 165°   | 572.8 | 572.9 | 572.9  | 573.0 | 573.3 | 573.6 | 573.9 | 574.2 | 573.9 | 573.6 | 573.3 |
| 167.5° | 577.3 | 577.3 | 577.3  | 577.5 | 577.9 | 578.2 | 578.6 | 579.0 | 578.6 | 578.2 | 577.9 |
| 170°   | 581.2 | 581.2 | 581.2  | 581.4 | 581.8 | 582.2 | 582.6 | 583.0 | 582.6 | 582.2 | 581.8 |
| 172.5° | 583.5 | 583.4 | 583.4  | 583.6 | 584.1 | 584.6 | 585.1 | 585.6 | 585.1 | 584.6 | 584.1 |
| 175°   | 585.7 | 585.6 | 585.6  | 585.8 | 586.3 | 586.8 | 587.3 | 587.8 | 587.3 | 586.8 | 586.3 |
| 177.5° | 586.6 | 586.5 | 586.4  | 586.6 | 587.1 | 587.6 | 588.1 | 588.6 | 588.1 | 587.6 | 587.1 |
| 180°   | 587.8 | 587.8 | 587.8  | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4FO-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1499.7 | 1493.2 | 1490.6 | 1484.1 | 1468.5 | 1458.1 | 1446.4 | 1438.6 | 1439.9 | 1433.4 | 1437.3 |
| 5°     | 1452.9 | 1451.6 | 1442.5 | 1429.5 | 1407.4 | 1395.7 | 1374.9 | 1364.5 | 1359.3 | 1360.6 | 1352.8 |
| 7.5°   | 1413.9 | 1402.2 | 1395.7 | 1374.9 | 1354.1 | 1329.3 | 1312.4 | 1303.3 | 1295.5 | 1287.7 | 1282.5 |
| 10°    | 1369.7 | 1359.3 | 1348.8 | 1326.7 | 1298.1 | 1274.7 | 1251.3 | 1242.2 | 1230.5 | 1225.3 | 1221.4 |
| 12.5°  | 1322.8 | 1316.3 | 1303.3 | 1277.3 | 1244.8 | 1222.7 | 1195.4 | 1190.2 | 1174.6 | 1164.1 | 1161.5 |
| 15°    | 1279.9 | 1276.0 | 1252.6 | 1222.7 | 1190.2 | 1168.0 | 1144.6 | 1129.0 | 1103.0 | 1108.2 | 1099.1 |
| 17.5°  | 1234.4 | 1217.5 | 1203.2 | 1162.8 | 1147.2 | 1113.4 | 1086.1 | 1078.3 | 1060.1 | 1048.4 | 1036.7 |
| 20°    | 1183.7 | 1173.3 | 1155.0 | 1129.0 | 1091.3 | 1052.3 | 1031.5 | 1018.5 | 1008.1 | 989.8  | 984.6  |
| 22.5°  | 1135.5 | 1122.5 | 1106.9 | 1073.1 | 1040.6 | 1008.1 | 979.4  | 967.7  | 954.7  | 941.7  | 933.9  |
| 25°    | 1097.8 | 1078.3 | 1061.4 | 1019.8 | 987.2  | 959.9  | 941.7  | 922.2  | 904.0  | 896.2  | 893.6  |
| 27.5°  | 1039.3 | 1027.6 | 1010.7 | 971.6  | 941.7  | 911.8  | 894.9  | 881.9  | 862.4  | 853.3  | 845.5  |
| 30°    | 1001.6 | 978.1  | 958.6  | 927.4  | 897.5  | 865.0  | 849.4  | 833.8  | 822.1  | 810.3  | 801.2  |
| 32.5°  | 950.8  | 932.6  | 917.0  | 885.8  | 855.9  | 826.0  | 809.0  | 785.6  | 779.1  | 770.0  | 759.6  |
| 35°    | 901.4  | 889.7  | 872.8  | 839.0  | 806.4  | 785.6  | 767.4  | 745.3  | 737.5  | 731.0  | 721.9  |
| 37.5°  | 854.6  | 837.7  | 826.0  | 793.4  | 764.8  | 740.1  | 725.8  | 707.6  | 702.4  | 694.6  | 688.1  |
| 40°    | 814.3  | 797.3  | 785.6  | 753.1  | 723.2  | 697.2  | 688.1  | 669.9  | 662.1  | 653.0  | 649.1  |
| 42.5°  | 768.7  | 754.4  | 738.8  | 715.4  | 684.2  | 658.2  | 640.0  | 629.5  | 619.1  | 615.2  | 607.4  |
| 45°    | 720.6  | 707.6  | 695.9  | 669.9  | 637.4  | 619.1  | 603.5  | 589.2  | 581.4  | 574.9  | 569.7  |
| 47.5°  | 679.0  | 667.3  | 651.7  | 623.0  | 597.0  | 580.1  | 564.5  | 550.2  | 542.4  | 534.6  | 528.1  |
| 50°    | 630.9  | 624.3  | 607.4  | 580.1  | 555.4  | 535.9  | 521.6  | 508.6  | 503.4  | 494.3  | 483.9  |
| 52.5°  | 587.9  | 576.2  | 561.9  | 539.8  | 517.7  | 494.3  | 474.8  | 467.0  | 457.9  | 452.7  | 443.5  |
| 55°    | 537.2  | 529.4  | 513.8  | 494.3  | 470.9  | 451.4  | 437.0  | 426.6  | 414.9  | 409.7  | 398.0  |
| 57.5°  | 494.3  | 480.0  | 472.2  | 447.4  | 425.3  | 405.8  | 395.4  | 385.0  | 372.0  | 364.2  | 359.0  |
| 60°    | 447.4  | 434.4  | 422.7  | 401.9  | 386.3  | 365.5  | 349.9  | 340.8  | 331.7  | 321.3  | 316.1  |
| 62.5°  | 401.9  | 391.5  | 377.2  | 360.3  | 340.8  | 323.9  | 312.2  | 299.2  | 294.0  | 283.6  | 279.7  |
| 65°    | 352.5  | 344.7  | 333.0  | 313.5  | 297.9  | 283.6  | 271.9  | 261.4  | 256.2  | 252.3  | 249.7  |
| 67.5°  | 308.3  | 297.9  | 290.1  | 273.2  | 256.2  | 244.5  | 238.0  | 231.5  | 225.0  | 221.1  | 217.2  |
| 70°    | 262.7  | 254.9  | 247.1  | 231.5  | 219.8  | 209.4  | 204.2  | 199.0  | 195.1  | 191.2  | 187.3  |
| 72.5°  | 215.9  | 212.0  | 204.2  | 193.8  | 184.7  | 176.9  | 173.0  | 166.5  | 162.6  | 156.1  | 153.5  |
| 75°    | 178.2  | 171.7  | 167.8  | 158.7  | 150.9  | 144.4  | 139.2  | 131.4  | 126.2  | 123.6  | 122.3  |
| 77.5°  | 140.5  | 137.9  | 132.7  | 124.9  | 121.0  | 114.5  | 106.7  | 104.1  | 101.5  | 101.5  | 100.2  |
| 80°    | 105.4  | 101.5  | 97.6   | 91.1   | 87.1   | 81.9   | 81.9   | 81.9   | 80.6   | 81.9   | 80.6   |
| 82.5°  | 71.5   | 68.9   | 66.3   | 62.4   | 61.1   | 61.1   | 62.4   | 62.4   | 62.4   | 62.4   | 62.4   |
| 85°    | 41.6   | 41.6   | 41.6   | 42.9   | 41.6   | 41.6   | 42.9   | 44.2   | 42.9   | 42.9   | 41.6   |
| 87.5°  | 19.5   | 19.5   | 20.8   | 20.8   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 23.4   |
| 90°    | 4.3    | 4.8    | 5.4    | 6.7    | 8.0    | 9.2    | 10.5   | 10.9   | 11.3   | 11.6   | 12.0   |
| 92.5°  | 7.7    | 7.4    | 7.8    | 8.7    | 9.6    | 10.5   | 11.4   | 12.1   | 12.7   | 13.4   | 14.1   |
| 95°    | 10.7   | 8.7    | 9.2    | 10.3   | 11.4   | 12.4   | 13.5   | 14.2   | 14.9   | 15.6   | 16.3   |
| 97.5°  | 37.6   | 36.2   | 33.7   | 28.8   | 23.9   | 18.9   | 14.0   | 14.8   | 15.6   | 16.3   | 17.1   |
| 100°   | 81.5   | 82.5   | 74.9   | 59.8   | 44.7   | 29.5   | 14.4   | 15.2   | 16.0   | 16.7   | 17.5   |
| 102.5° | 107.7  | 108.3  | 99.9   | 83.0   | 66.1   | 49.2   | 32.3   | 29.1   | 25.9   | 22.7   | 19.5   |
| 105°   | 134.4  | 134.9  | 130.5  | 121.8  | 113.1  | 104.3  | 95.6   | 78.4   | 61.2   | 44.1   | 26.9   |
| 107.5° | 162.9  | 163.3  | 164.0  | 165.5  | 167.0  | 168.4  | 169.9  | 154.9  | 140.0  | 125.0  | 110.1  |
| 110°   | 191.7  | 192.1  | 192.6  | 193.7  | 194.8  | 195.8  | 196.9  | 193.7  | 190.5  | 187.3  | 184.1  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 219.3 | 219.6  | 220.1 | 221.2 | 222.3 | 223.3 | 224.4 | 225.3 | 226.2 | 227.1 | 228.0 |
| 115°   | 246.4 | 246.7  | 247.1 | 248.0 | 248.9 | 249.7 | 250.6 | 251.6 | 252.6 | 253.5 | 254.5 |
| 117.5° | 273.9 | 274.2  | 274.4 | 274.9 | 275.4 | 275.9 | 276.4 | 277.2 | 278.0 | 278.7 | 279.5 |
| 120°   | 299.6 | 300.0  | 300.1 | 300.4 | 300.7 | 301.0 | 301.3 | 302.1 | 302.9 | 303.6 | 304.4 |
| 122.5° | 324.1 | 324.4  | 324.6 | 325.0 | 325.4 | 325.8 | 326.2 | 326.7 | 327.2 | 327.7 | 328.2 |
| 125°   | 347.2 | 347.6  | 347.8 | 348.2 | 348.5 | 348.9 | 349.3 | 349.5 | 349.7 | 349.9 | 350.1 |
| 127.5° | 369.9 | 370.3  | 370.5 | 371.0 | 371.5 | 372.0 | 372.5 | 372.8 | 373.1 | 373.4 | 373.7 |
| 130°   | 390.9 | 391.3  | 391.5 | 391.9 | 392.2 | 392.6 | 393.0 | 393.4 | 393.8 | 394.1 | 394.5 |
| 132.5° | 410.9 | 411.3  | 411.5 | 411.8 | 412.1 | 412.4 | 412.7 | 413.1 | 413.5 | 413.8 | 414.2 |
| 135°   | 430.7 | 431.0  | 431.2 | 431.6 | 431.9 | 432.3 | 432.7 | 433.0 | 433.3 | 433.6 | 433.9 |
| 137.5° | 448.9 | 449.3  | 449.4 | 449.6 | 449.8 | 450.0 | 450.2 | 450.7 | 451.2 | 451.7 | 452.2 |
| 140°   | 465.6 | 465.9  | 466.0 | 466.3 | 466.6 | 466.9 | 467.2 | 467.6 | 468.0 | 468.4 | 468.8 |
| 142.5° | 481.8 | 482.1  | 482.2 | 482.5 | 482.8 | 483.1 | 483.4 | 483.7 | 484.0 | 484.3 | 484.6 |
| 145°   | 497.1 | 497.4  | 497.5 | 497.7 | 497.8 | 498.0 | 498.2 | 498.4 | 498.6 | 498.8 | 499.0 |
| 147.5° | 510.7 | 510.9  | 511.0 | 511.2 | 511.4 | 511.6 | 511.8 | 512.0 | 512.2 | 512.3 | 512.5 |
| 150°   | 523.0 | 523.1  | 523.2 | 523.4 | 523.6 | 523.8 | 524.0 | 524.2 | 524.4 | 524.6 | 524.8 |
| 152.5° | 534.0 | 534.0  | 534.1 | 534.2 | 534.3 | 534.4 | 534.5 | 534.9 | 535.3 | 535.6 | 536.0 |
| 155°   | 543.8 | 543.7  | 543.7 | 543.8 | 543.9 | 544.0 | 544.1 | 544.6 | 545.1 | 545.6 | 546.1 |
| 157.5° | 553.3 | 553.3  | 553.2 | 553.1 | 553.0 | 552.9 | 552.8 | 553.4 | 554.0 | 554.5 | 555.1 |
| 160°   | 560.7 | 560.7  | 560.6 | 560.5 | 560.4 | 560.3 | 560.2 | 560.8 | 561.4 | 562.0 | 562.6 |
| 162.5° | 567.3 | 567.2  | 567.2 | 567.1 | 567.0 | 566.9 | 566.8 | 567.5 | 568.2 | 568.9 | 569.6 |
| 165°   | 573.0 | 572.9  | 572.9 | 572.8 | 572.7 | 572.6 | 572.5 | 573.3 | 574.1 | 574.8 | 575.6 |
| 167.5° | 577.5 | 577.3  | 577.3 | 577.3 | 577.3 | 577.3 | 577.3 | 578.1 | 578.9 | 579.6 | 580.4 |
| 170°   | 581.4 | 581.2  | 581.2 | 581.2 | 581.2 | 581.2 | 581.2 | 582.0 | 582.8 | 583.5 | 584.3 |
| 172.5° | 583.6 | 583.4  | 583.4 | 583.5 | 583.6 | 583.7 | 583.8 | 584.6 | 585.4 | 586.1 | 586.9 |
| 175°   | 585.8 | 585.6  | 585.6 | 585.7 | 585.8 | 585.9 | 586.0 | 586.7 | 587.4 | 588.1 | 588.8 |
| 177.5° | 586.6 | 586.4  | 586.5 | 586.6 | 586.7 | 586.8 | 586.9 | 587.7 | 588.5 | 589.2 | 590.0 |
| 180°   | 587.8 | 587.8  | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1436.0 | 1437.3 | 1433.4 | 1425.6 | 1424.3 | 1426.9 | 1434.7 | 1432.1 | 1425.6 | 1437.3 | 1426.9 |
| 5°     | 1356.7 | 1350.1 | 1347.5 | 1350.1 | 1342.3 | 1338.4 | 1346.2 | 1342.3 | 1346.2 | 1347.5 | 1351.5 |
| 7.5°   | 1279.9 | 1281.2 | 1273.4 | 1274.7 | 1264.3 | 1266.9 | 1266.9 | 1266.9 | 1270.8 | 1273.4 | 1278.6 |
| 10°    | 1213.6 | 1216.2 | 1207.1 | 1208.4 | 1200.6 | 1195.4 | 1199.3 | 1207.1 | 1207.1 | 1207.1 | 1209.7 |
| 12.5°  | 1160.2 | 1148.5 | 1142.0 | 1140.7 | 1131.6 | 1129.0 | 1136.8 | 1139.4 | 1145.9 | 1145.9 | 1149.8 |
| 15°    | 1093.9 | 1091.3 | 1086.1 | 1086.1 | 1064.0 | 1069.2 | 1071.8 | 1080.9 | 1093.9 | 1083.5 | 1086.1 |
| 17.5°  | 1034.1 | 1027.6 | 1021.1 | 1018.5 | 1015.9 | 1008.1 | 1018.5 | 1017.2 | 1025.0 | 1026.3 | 1030.2 |
| 20°    | 980.7  | 975.5  | 962.5  | 963.8  | 966.4  | 954.7  | 961.2  | 961.2  | 969.0  | 976.8  | 985.9  |
| 22.5°  | 928.7  | 923.5  | 917.0  | 919.6  | 911.8  | 909.2  | 909.2  | 915.7  | 924.8  | 931.3  | 930.0  |
| 25°    | 888.4  | 879.3  | 875.4  | 871.5  | 867.6  | 870.2  | 866.3  | 872.8  | 879.3  | 883.2  | 879.3  |
| 27.5°  | 842.9  | 839.0  | 831.2  | 827.3  | 820.8  | 823.4  | 826.0  | 831.2  | 835.1  | 835.1  | 839.0  |
| 30°    | 798.6  | 793.4  | 790.8  | 786.9  | 786.9  | 781.7  | 783.0  | 788.2  | 792.1  | 796.0  | 801.2  |
| 32.5°  | 755.7  | 751.8  | 747.9  | 747.9  | 745.3  | 744.0  | 742.7  | 750.5  | 750.5  | 758.3  | 758.3  |
| 35°    | 720.6  | 714.1  | 714.1  | 707.6  | 710.2  | 708.9  | 706.3  | 711.5  | 712.8  | 718.0  | 716.7  |
| 37.5°  | 681.6  | 681.6  | 679.0  | 672.5  | 667.3  | 668.6  | 675.1  | 675.1  | 679.0  | 677.7  | 681.6  |
| 40°    | 642.6  | 640.0  | 640.0  | 636.1  | 634.8  | 633.5  | 634.8  | 636.1  | 642.6  | 641.3  | 642.6  |
| 42.5°  | 603.5  | 604.8  | 598.3  | 598.3  | 598.3  | 594.4  | 595.7  | 597.0  | 599.6  | 602.2  | 606.1  |
| 45°    | 565.8  | 563.2  | 561.9  | 559.3  | 556.7  | 558.0  | 556.7  | 561.9  | 560.6  | 563.2  | 567.1  |
| 47.5°  | 525.5  | 521.6  | 520.3  | 515.1  | 515.1  | 517.7  | 516.4  | 520.3  | 521.6  | 525.5  | 522.9  |
| 50°    | 486.5  | 481.3  | 477.4  | 478.7  | 470.9  | 473.5  | 473.5  | 477.4  | 481.3  | 482.6  | 485.2  |
| 52.5°  | 440.9  | 439.6  | 438.3  | 431.8  | 430.5  | 429.2  | 430.5  | 431.8  | 437.0  | 440.9  | 442.2  |
| 55°    | 396.7  | 395.4  | 387.6  | 385.0  | 381.1  | 381.1  | 383.7  | 385.0  | 394.1  | 395.4  | 400.6  |
| 57.5°  | 356.4  | 352.5  | 343.4  | 342.1  | 342.1  | 342.1  | 338.2  | 343.4  | 346.0  | 352.5  | 352.5  |
| 60°    | 312.2  | 312.2  | 304.4  | 304.4  | 305.7  | 304.4  | 304.4  | 305.7  | 305.7  | 310.9  | 313.5  |
| 62.5°  | 277.1  | 275.8  | 275.8  | 273.2  | 271.9  | 273.2  | 271.9  | 271.9  | 273.2  | 277.1  | 281.0  |
| 65°    | 245.8  | 244.5  | 243.2  | 241.9  | 239.3  | 239.3  | 240.6  | 243.2  | 243.2  | 245.8  | 247.1  |
| 67.5°  | 215.9  | 215.9  | 213.3  | 213.3  | 212.0  | 210.7  | 212.0  | 210.7  | 215.9  | 215.9  | 217.2  |
| 70°    | 186.0  | 184.7  | 180.8  | 179.5  | 175.6  | 176.9  | 176.9  | 180.8  | 182.1  | 184.7  | 187.3  |
| 72.5°  | 149.6  | 149.6  | 147.0  | 144.4  | 145.7  | 143.1  | 143.1  | 144.4  | 144.4  | 148.3  | 149.6  |
| 75°    | 123.6  | 121.0  | 119.7  | 121.0  | 119.7  | 122.3  | 119.7  | 119.7  | 122.3  | 122.3  | 122.3  |
| 77.5°  | 101.5  | 101.5  | 100.2  | 100.2  | 101.5  | 100.2  | 101.5  | 101.5  | 101.5  | 100.2  | 101.5  |
| 80°    | 83.2   | 81.9   | 81.9   | 81.9   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   |
| 82.5°  | 62.4   | 62.4   | 61.1   | 62.4   | 62.4   | 61.1   | 62.4   | 61.1   | 61.1   | 62.4   | 62.4   |
| 85°    | 41.6   | 44.2   | 41.6   | 41.6   | 42.9   | 42.9   | 44.2   | 42.9   | 44.2   | 41.6   | 42.9   |
| 87.5°  | 22.1   | 23.4   | 23.4   | 22.1   | 22.1   | 23.4   | 23.4   | 23.4   | 24.7   | 22.1   | 23.4   |
| 90°    | 12.2   | 12.3   | 12.5   | 12.7   | 12.9   | 13.1   | 12.9   | 12.7   | 12.5   | 12.3   | 12.2   |
| 92.5°  | 14.4   | 14.4   | 14.5   | 14.6   | 14.7   | 14.8   | 14.7   | 14.6   | 14.5   | 14.4   | 14.4   |
| 95°    | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 97.5°  | 17.5   | 17.5   | 17.6   | 17.7   | 17.8   | 17.9   | 17.8   | 17.7   | 17.6   | 17.5   | 17.5   |
| 100°   | 17.9   | 17.9   | 18.0   | 18.1   | 18.2   | 18.3   | 18.2   | 18.1   | 18.0   | 17.9   | 17.9   |
| 102.5° | 17.9   | 18.0   | 18.2   | 18.4   | 18.6   | 18.8   | 18.6   | 18.4   | 18.2   | 18.0   | 17.9   |
| 105°   | 18.3   | 18.4   | 18.6   | 18.8   | 19.0   | 19.2   | 19.0   | 18.8   | 18.6   | 18.4   | 18.3   |
| 107.5° | 102.6  | 96.2   | 83.5   | 70.8   | 58.1   | 45.4   | 58.1   | 70.8   | 83.5   | 96.2   | 102.6  |
| 110°   | 182.5  | 175.6  | 161.7  | 147.8  | 134.0  | 120.1  | 134.0  | 147.8  | 161.7  | 175.6  | 182.5  |



TEST NUMBER: P1031048

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 228.4  | 228.3 | 228.1 | 227.9 | 227.7 | 227.5 | 227.7 | 227.9 | 228.1 | 228.3 | 228.4  |
| 115°   | 255.0  | 255.2 | 255.6 | 256.0 | 256.4 | 256.8 | 256.4 | 256.0 | 255.6 | 255.2 | 255.0  |
| 117.5° | 279.9  | 279.9 | 280.0 | 280.1 | 280.2 | 280.3 | 280.2 | 280.1 | 280.0 | 279.9 | 279.9  |
| 120°   | 304.8  | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8  |
| 122.5° | 328.4  | 328.4 | 328.5 | 328.6 | 328.7 | 328.8 | 328.7 | 328.6 | 328.5 | 328.4 | 328.4  |
| 125°   | 350.2  | 350.3 | 350.5 | 350.7 | 350.9 | 351.1 | 350.9 | 350.7 | 350.5 | 350.3 | 350.2  |
| 127.5° | 373.8  | 373.7 | 373.5 | 373.3 | 373.1 | 372.9 | 373.1 | 373.3 | 373.5 | 373.7 | 373.8  |
| 130°   | 394.7  | 394.6 | 394.4 | 394.3 | 394.1 | 393.9 | 394.1 | 394.3 | 394.4 | 394.6 | 394.7  |
| 132.5° | 414.4  | 414.3 | 414.0 | 413.7 | 413.4 | 413.1 | 413.4 | 413.7 | 414.0 | 414.3 | 414.4  |
| 135°   | 434.0  | 433.9 | 433.6 | 433.3 | 433.0 | 432.7 | 433.0 | 433.3 | 433.6 | 433.9 | 434.0  |
| 137.5° | 452.4  | 452.3 | 452.1 | 451.9 | 451.7 | 451.5 | 451.7 | 451.9 | 452.1 | 452.3 | 452.4  |
| 140°   | 469.0  | 468.9 | 468.7 | 468.5 | 468.3 | 468.1 | 468.3 | 468.5 | 468.7 | 468.9 | 469.0  |
| 142.5° | 484.7  | 484.6 | 484.3 | 484.0 | 483.7 | 483.4 | 483.7 | 484.0 | 484.3 | 484.6 | 484.7  |
| 145°   | 499.1  | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1 | 499.1  |
| 147.5° | 512.6  | 512.4 | 511.9 | 511.4 | 511.0 | 510.5 | 511.0 | 511.4 | 511.9 | 512.4 | 512.6  |
| 150°   | 524.9  | 524.8 | 524.5 | 524.2 | 523.9 | 523.6 | 523.9 | 524.2 | 524.5 | 524.8 | 524.9  |
| 152.5° | 536.2  | 536.0 | 535.5 | 535.0 | 534.5 | 534.0 | 534.5 | 535.0 | 535.5 | 536.0 | 536.2  |
| 155°   | 546.3  | 546.0 | 545.4 | 544.9 | 544.3 | 543.7 | 544.3 | 544.9 | 545.4 | 546.0 | 546.3  |
| 157.5° | 555.4  | 555.0 | 554.2 | 553.5 | 552.7 | 551.9 | 552.7 | 553.5 | 554.2 | 555.0 | 555.4  |
| 160°   | 562.9  | 562.6 | 561.9 | 561.2 | 560.5 | 559.8 | 560.5 | 561.2 | 561.9 | 562.6 | 562.9  |
| 162.5° | 569.9  | 569.6 | 569.0 | 568.4 | 567.8 | 567.2 | 567.8 | 568.4 | 569.0 | 569.6 | 569.9  |
| 165°   | 576.0  | 575.7 | 575.0 | 574.3 | 573.6 | 572.9 | 573.6 | 574.3 | 575.0 | 575.7 | 576.0  |
| 167.5° | 580.8  | 580.4 | 579.6 | 578.9 | 578.1 | 577.3 | 578.1 | 578.9 | 579.6 | 580.4 | 580.8  |
| 170°   | 584.7  | 584.3 | 583.5 | 582.8 | 582.0 | 581.2 | 582.0 | 582.8 | 583.5 | 584.3 | 584.7  |
| 172.5° | 587.3  | 586.9 | 586.0 | 585.1 | 584.3 | 583.4 | 584.3 | 585.1 | 586.0 | 586.9 | 587.3  |
| 175°   | 589.1  | 588.7 | 587.9 | 587.2 | 586.4 | 585.6 | 586.4 | 587.2 | 587.9 | 588.7 | 589.1  |
| 177.5° | 590.4  | 589.9 | 588.9 | 588.0 | 587.0 | 586.0 | 587.0 | 588.0 | 588.9 | 589.9 | 590.4  |
| 180°   | 587.8  | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1437.3 | 1442.5 | 1437.3 | 1426.9 | 1437.3 | 1443.8 | 1450.3 | 1460.7 | 1465.9 | 1465.9 | 1473.7 |
| 5°     | 1355.4 | 1365.8 | 1361.9 | 1359.3 | 1369.7 | 1376.2 | 1386.6 | 1399.6 | 1413.9 | 1423.0 | 1433.4 |
| 7.5°   | 1282.5 | 1289.0 | 1295.5 | 1295.5 | 1305.9 | 1320.2 | 1335.8 | 1351.5 | 1369.7 | 1382.7 | 1390.5 |
| 10°    | 1218.8 | 1224.0 | 1227.9 | 1233.1 | 1248.7 | 1264.3 | 1285.1 | 1304.6 | 1320.2 | 1334.5 | 1347.5 |
| 12.5°  | 1157.6 | 1165.4 | 1174.6 | 1178.5 | 1190.2 | 1209.7 | 1229.2 | 1252.6 | 1277.3 | 1291.6 | 1304.6 |
| 15°    | 1099.1 | 1103.0 | 1113.4 | 1125.1 | 1135.5 | 1156.3 | 1181.1 | 1205.8 | 1226.6 | 1248.7 | 1260.4 |
| 17.5°  | 1039.3 | 1040.6 | 1067.9 | 1061.4 | 1095.2 | 1114.7 | 1127.7 | 1151.1 | 1185.0 | 1203.2 | 1221.4 |
| 20°    | 980.7  | 993.8  | 1005.5 | 1012.0 | 1030.2 | 1052.3 | 1090.0 | 1108.2 | 1135.5 | 1152.4 | 1168.0 |
| 22.5°  | 935.2  | 954.7  | 954.7  | 970.3  | 979.4  | 1000.3 | 1027.6 | 1062.7 | 1092.6 | 1104.3 | 1126.4 |
| 25°    | 894.9  | 904.0  | 919.6  | 924.8  | 941.7  | 959.9  | 978.1  | 1015.9 | 1048.4 | 1064.0 | 1079.6 |
| 27.5°  | 842.9  | 854.6  | 875.4  | 875.4  | 897.5  | 917.0  | 939.1  | 963.8  | 996.4  | 1018.5 | 1035.4 |
| 30°    | 802.5  | 814.3  | 823.4  | 837.7  | 846.8  | 865.0  | 904.0  | 922.2  | 950.8  | 970.3  | 991.2  |
| 32.5°  | 764.8  | 773.9  | 781.7  | 797.3  | 807.7  | 828.6  | 849.4  | 881.9  | 906.6  | 924.8  | 946.9  |
| 35°    | 723.2  | 732.3  | 742.7  | 754.4  | 770.0  | 789.5  | 809.0  | 836.4  | 861.1  | 878.0  | 896.2  |
| 37.5°  | 684.2  | 690.7  | 706.3  | 714.1  | 727.1  | 745.3  | 770.0  | 798.6  | 820.8  | 833.8  | 852.0  |
| 40°    | 646.5  | 651.7  | 663.4  | 677.7  | 686.8  | 701.1  | 727.1  | 751.8  | 779.1  | 794.7  | 809.0  |
| 42.5°  | 606.1  | 612.6  | 623.0  | 637.4  | 651.7  | 667.3  | 681.6  | 710.2  | 734.9  | 747.9  | 763.5  |
| 45°    | 571.0  | 574.9  | 582.7  | 597.0  | 611.3  | 623.0  | 645.2  | 671.2  | 694.6  | 705.0  | 721.9  |
| 47.5°  | 529.4  | 533.3  | 545.0  | 551.5  | 567.1  | 582.7  | 604.8  | 630.9  | 651.7  | 662.1  | 677.7  |
| 50°    | 486.5  | 490.4  | 498.2  | 512.5  | 522.9  | 539.8  | 559.3  | 581.4  | 607.4  | 621.7  | 630.9  |
| 52.5°  | 444.8  | 452.7  | 459.2  | 470.9  | 483.9  | 500.8  | 519.0  | 539.8  | 561.9  | 576.2  | 586.6  |
| 55°    | 403.2  | 409.7  | 417.5  | 424.0  | 439.6  | 455.3  | 476.1  | 495.6  | 515.1  | 528.1  | 539.8  |
| 57.5°  | 356.4  | 365.5  | 373.3  | 386.3  | 398.0  | 411.0  | 434.4  | 450.0  | 473.5  | 482.6  | 493.0  |
| 60°    | 316.1  | 325.2  | 331.7  | 342.1  | 352.5  | 369.4  | 385.0  | 404.5  | 424.0  | 435.7  | 448.7  |
| 62.5°  | 282.3  | 286.2  | 290.1  | 300.5  | 310.9  | 326.5  | 342.1  | 361.6  | 382.4  | 388.9  | 399.3  |
| 65°    | 248.4  | 252.3  | 258.8  | 267.9  | 275.8  | 284.9  | 301.8  | 317.4  | 336.9  | 347.3  | 351.2  |
| 67.5°  | 219.8  | 223.7  | 225.0  | 231.5  | 238.0  | 248.4  | 257.5  | 273.2  | 291.4  | 297.9  | 305.7  |
| 70°    | 187.3  | 193.8  | 195.1  | 200.3  | 202.9  | 209.4  | 219.8  | 231.5  | 245.8  | 257.5  | 264.0  |
| 72.5°  | 149.6  | 158.7  | 161.3  | 169.1  | 173.0  | 179.5  | 187.3  | 196.4  | 205.5  | 210.7  | 215.9  |
| 75°    | 122.3  | 124.9  | 126.2  | 132.7  | 139.2  | 148.3  | 152.2  | 157.4  | 165.2  | 171.7  | 176.9  |
| 77.5°  | 101.5  | 102.8  | 104.1  | 104.1  | 105.4  | 110.6  | 118.4  | 124.9  | 130.1  | 132.7  | 136.6  |
| 80°    | 81.9   | 80.6   | 80.6   | 81.9   | 81.9   | 81.9   | 84.5   | 93.7   | 96.3   | 102.8  | 101.5  |
| 82.5°  | 63.7   | 61.1   | 62.4   | 61.1   | 61.1   | 61.1   | 61.1   | 62.4   | 62.4   | 66.3   | 68.9   |
| 85°    | 41.6   | 42.9   | 41.6   | 41.6   | 40.3   | 41.6   | 40.3   | 40.3   | 39.0   | 39.0   | 37.7   |
| 87.5°  | 22.1   | 23.4   | 22.1   | 22.1   | 20.8   | 22.1   | 20.8   | 20.8   | 19.5   | 19.5   | 16.9   |
| 90°    | 12.0   | 11.6   | 11.3   | 10.9   | 10.5   | 9.2    | 8.0    | 6.7    | 5.4    | 4.8    | 4.3    |
| 92.5°  | 14.1   | 13.4   | 12.7   | 12.1   | 11.4   | 10.5   | 9.6    | 8.7    | 7.8    | 7.4    | 7.7    |
| 95°    | 16.3   | 15.6   | 14.9   | 14.2   | 13.5   | 12.4   | 11.4   | 10.3   | 9.2    | 8.7    | 10.7   |
| 97.5°  | 17.1   | 16.3   | 15.6   | 14.8   | 14.0   | 18.9   | 23.9   | 28.8   | 33.7   | 36.2   | 37.6   |
| 100°   | 17.5   | 16.7   | 16.0   | 15.2   | 14.4   | 29.5   | 44.7   | 59.8   | 74.9   | 82.5   | 81.5   |
| 102.5° | 19.5   | 22.7   | 25.9   | 29.1   | 32.3   | 49.2   | 66.1   | 83.0   | 99.9   | 108.3  | 107.7  |
| 105°   | 26.9   | 44.1   | 61.2   | 78.4   | 95.6   | 104.3  | 113.1  | 121.8  | 130.5  | 134.9  | 134.4  |
| 107.5° | 110.1  | 125.0  | 140.0  | 154.9  | 169.9  | 168.4  | 167.0  | 165.5  | 164.0  | 163.3  | 162.9  |
| 110°   | 184.1  | 187.3  | 190.5  | 193.7  | 196.9  | 195.8  | 194.8  | 193.7  | 192.6  | 192.1  | 191.7  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 228.0 | 227.1 | 226.2 | 225.3 | 224.4 | 223.3 | 222.3 | 221.2 | 220.1 | 219.6  | 219.3 |
| 115°   | 254.5 | 253.5 | 252.6 | 251.6 | 250.6 | 249.7 | 248.9 | 248.0 | 247.1 | 246.7  | 246.4 |
| 117.5° | 279.5 | 278.7 | 278.0 | 277.2 | 276.4 | 275.9 | 275.4 | 274.9 | 274.4 | 274.2  | 273.9 |
| 120°   | 304.4 | 303.6 | 302.9 | 302.1 | 301.3 | 301.0 | 300.7 | 300.4 | 300.1 | 300.0  | 299.6 |
| 122.5° | 328.2 | 327.7 | 327.2 | 326.7 | 326.2 | 325.8 | 325.4 | 325.0 | 324.6 | 324.4  | 324.1 |
| 125°   | 350.1 | 349.9 | 349.7 | 349.5 | 349.3 | 348.9 | 348.5 | 348.2 | 347.8 | 347.6  | 347.2 |
| 127.5° | 373.7 | 373.4 | 373.1 | 372.8 | 372.5 | 372.0 | 371.5 | 371.0 | 370.5 | 370.3  | 369.9 |
| 130°   | 394.5 | 394.1 | 393.8 | 393.4 | 393.0 | 392.6 | 392.2 | 391.9 | 391.5 | 391.3  | 390.9 |
| 132.5° | 414.2 | 413.8 | 413.5 | 413.1 | 412.7 | 412.4 | 412.1 | 411.8 | 411.5 | 411.3  | 410.9 |
| 135°   | 433.9 | 433.6 | 433.3 | 433.0 | 432.7 | 432.3 | 431.9 | 431.6 | 431.2 | 431.0  | 430.7 |
| 137.5° | 452.2 | 451.7 | 451.2 | 450.7 | 450.2 | 450.0 | 449.8 | 449.6 | 449.4 | 449.3  | 448.9 |
| 140°   | 468.8 | 468.4 | 468.0 | 467.6 | 467.2 | 466.9 | 466.6 | 466.3 | 466.0 | 465.9  | 465.6 |
| 142.5° | 484.6 | 484.3 | 484.0 | 483.7 | 483.4 | 483.1 | 482.8 | 482.5 | 482.2 | 482.1  | 481.8 |
| 145°   | 499.0 | 498.8 | 498.6 | 498.4 | 498.2 | 498.0 | 497.8 | 497.7 | 497.5 | 497.4  | 497.1 |
| 147.5° | 512.5 | 512.3 | 512.2 | 512.0 | 511.8 | 511.6 | 511.4 | 511.2 | 511.0 | 510.9  | 510.7 |
| 150°   | 524.8 | 524.6 | 524.4 | 524.2 | 524.0 | 523.8 | 523.6 | 523.4 | 523.2 | 523.1  | 523.0 |
| 152.5° | 536.0 | 535.6 | 535.3 | 534.9 | 534.5 | 534.4 | 534.3 | 534.2 | 534.1 | 534.0  | 534.0 |
| 155°   | 546.1 | 545.6 | 545.1 | 544.6 | 544.1 | 544.0 | 543.9 | 543.8 | 543.7 | 543.7  | 543.8 |
| 157.5° | 555.1 | 554.5 | 554.0 | 553.4 | 552.8 | 552.9 | 553.0 | 553.1 | 553.2 | 553.3  | 553.3 |
| 160°   | 562.6 | 562.0 | 561.4 | 560.8 | 560.2 | 560.3 | 560.4 | 560.5 | 560.6 | 560.7  | 560.7 |
| 162.5° | 569.6 | 568.9 | 568.2 | 567.5 | 566.8 | 566.9 | 567.0 | 567.1 | 567.2 | 567.2  | 567.3 |
| 165°   | 575.6 | 574.8 | 574.1 | 573.3 | 572.5 | 572.6 | 572.7 | 572.8 | 572.9 | 572.9  | 573.0 |
| 167.5° | 580.4 | 579.6 | 578.9 | 578.1 | 577.3 | 577.3 | 577.3 | 577.3 | 577.3 | 577.3  | 577.5 |
| 170°   | 584.3 | 583.5 | 582.8 | 582.0 | 581.2 | 581.2 | 581.2 | 581.2 | 581.2 | 581.2  | 581.4 |
| 172.5° | 586.9 | 586.1 | 585.4 | 584.6 | 583.8 | 583.7 | 583.6 | 583.5 | 583.4 | 583.4  | 583.6 |
| 175°   | 588.8 | 588.1 | 587.4 | 586.7 | 586.0 | 585.9 | 585.8 | 585.7 | 585.6 | 585.6  | 585.8 |
| 177.5° | 590.0 | 589.2 | 588.5 | 587.7 | 586.9 | 586.8 | 586.7 | 586.6 | 586.5 | 586.4  | 586.6 |
| 180°   | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8 | 587.8  | 587.8 |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1519.2 | 1519.2 | 1519.2 | 1519.2 |
| 2.5°   | 1480.2 | 1489.3 | 1507.5 | 1523.1 |
| 5°     | 1449.0 | 1463.3 | 1490.6 | 1517.9 |
| 7.5°   | 1411.3 | 1433.4 | 1468.5 | 1506.2 |
| 10°    | 1374.9 | 1403.5 | 1446.4 | 1490.6 |
| 12.5°  | 1338.4 | 1368.4 | 1413.9 | 1471.1 |
| 15°    | 1295.5 | 1326.7 | 1381.4 | 1450.3 |
| 17.5°  | 1257.8 | 1299.4 | 1348.8 | 1417.8 |
| 20°    | 1217.5 | 1248.7 | 1312.4 | 1385.3 |
| 22.5°  | 1166.7 | 1218.8 | 1278.6 | 1355.4 |
| 25°    | 1126.4 | 1172.0 | 1231.8 | 1318.9 |
| 27.5°  | 1077.0 | 1130.3 | 1203.2 | 1279.9 |
| 30°    | 1036.7 | 1080.9 | 1148.5 | 1240.9 |
| 32.5°  | 989.8  | 1041.9 | 1112.1 | 1203.2 |
| 35°    | 948.2  | 992.5  | 1058.8 | 1151.1 |
| 37.5°  | 898.8  | 946.9  | 1021.1 | 1103.0 |
| 40°    | 855.9  | 902.7  | 972.9  | 1049.7 |
| 42.5°  | 803.8  | 853.3  | 923.5  | 988.5  |
| 45°    | 762.2  | 807.7  | 863.7  | 923.5  |
| 47.5°  | 711.5  | 759.6  | 814.3  | 855.9  |
| 50°    | 666.0  | 710.2  | 753.1  | 788.2  |
| 52.5°  | 616.5  | 656.9  | 695.9  | 721.9  |
| 55°    | 571.0  | 602.2  | 633.5  | 651.7  |
| 57.5°  | 517.7  | 547.6  | 573.6  | 584.0  |
| 60°    | 470.9  | 495.6  | 512.5  | 524.2  |
| 62.5°  | 421.4  | 439.6  | 452.7  | 459.2  |
| 65°    | 373.3  | 386.3  | 392.8  | 399.3  |
| 67.5°  | 323.9  | 335.6  | 339.5  | 347.3  |
| 70°    | 271.9  | 284.9  | 287.5  | 291.4  |
| 72.5°  | 232.8  | 232.8  | 238.0  | 243.2  |
| 75°    | 186.0  | 188.6  | 191.2  | 191.2  |
| 77.5°  | 145.7  | 145.7  | 148.3  | 149.6  |
| 80°    | 106.7  | 108.0  | 108.0  | 106.7  |
| 82.5°  | 72.8   | 75.4   | 72.8   | 71.5   |
| 85°    | 40.3   | 45.5   | 42.9   | 42.9   |
| 87.5°  | 16.9   | 16.9   | 19.5   | 16.9   |
| 90°    | 3.3    | 2.4    | 1.4    | 0.4    |
| 92.5°  | 8.3    | 8.8    | 9.4    | 10.0   |
| 95°    | 14.7   | 18.6   | 22.6   | 26.6   |
| 97.5°  | 40.3   | 43.0   | 45.8   | 48.5   |
| 100°   | 79.6   | 77.7   | 75.7   | 73.8   |
| 102.5° | 106.4  | 105.1  | 103.9  | 102.6  |
| 105°   | 133.3  | 132.2  | 131.2  | 130.1  |
| 107.5° | 162.0  | 161.1  | 160.3  | 159.4  |
| 110°   | 190.9  | 190.2  | 189.4  | 188.6  |

TEST NUMBER: P1031048

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 218.6 | 217.9 | 217.3 | 216.6 |
| 115°   | 245.8 | 245.3 | 244.7 | 244.1 |
| 117.5° | 273.2 | 272.5 | 271.9 | 271.2 |
| 120°   | 298.7 | 297.8 | 297.0 | 296.1 |
| 122.5° | 323.4 | 322.7 | 322.1 | 321.4 |
| 125°   | 346.4 | 345.7 | 344.9 | 344.1 |
| 127.5° | 369.1 | 368.4 | 367.6 | 366.8 |
| 130°   | 390.1 | 389.4 | 388.6 | 387.8 |
| 132.5° | 410.1 | 409.4 | 408.6 | 407.8 |
| 135°   | 430.1 | 429.6 | 429.0 | 428.4 |
| 137.5° | 448.1 | 447.4 | 446.6 | 445.8 |
| 140°   | 465.0 | 464.5 | 463.9 | 463.3 |
| 142.5° | 481.2 | 480.7 | 480.1 | 479.5 |
| 145°   | 496.4 | 495.7 | 495.0 | 494.3 |
| 147.5° | 510.2 | 509.7 | 509.2 | 508.7 |
| 150°   | 522.7 | 522.4 | 522.1 | 521.8 |
| 152.5° | 533.9 | 533.8 | 533.7 | 533.6 |
| 155°   | 544.0 | 544.1 | 544.3 | 544.5 |
| 157.5° | 553.3 | 553.3 | 553.3 | 553.3 |
| 160°   | 560.8 | 560.9 | 561.0 | 561.1 |
| 162.5° | 567.6 | 567.9 | 568.2 | 568.5 |
| 165°   | 573.3 | 573.6 | 573.9 | 574.2 |
| 167.5° | 577.9 | 578.2 | 578.6 | 579.0 |
| 170°   | 581.8 | 582.2 | 582.6 | 583.0 |
| 172.5° | 584.1 | 584.6 | 585.1 | 585.6 |
| 175°   | 586.3 | 586.8 | 587.3 | 587.8 |
| 177.5° | 587.1 | 587.6 | 588.1 | 588.6 |
| 180°   | 587.8 | 587.8 | 587.8 | 587.8 |

(END OF REPORT)