

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: P1031114

Luminaire Tested: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1031114  
REPORT IS A COMBINATION OF REPORTS P994165 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_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**

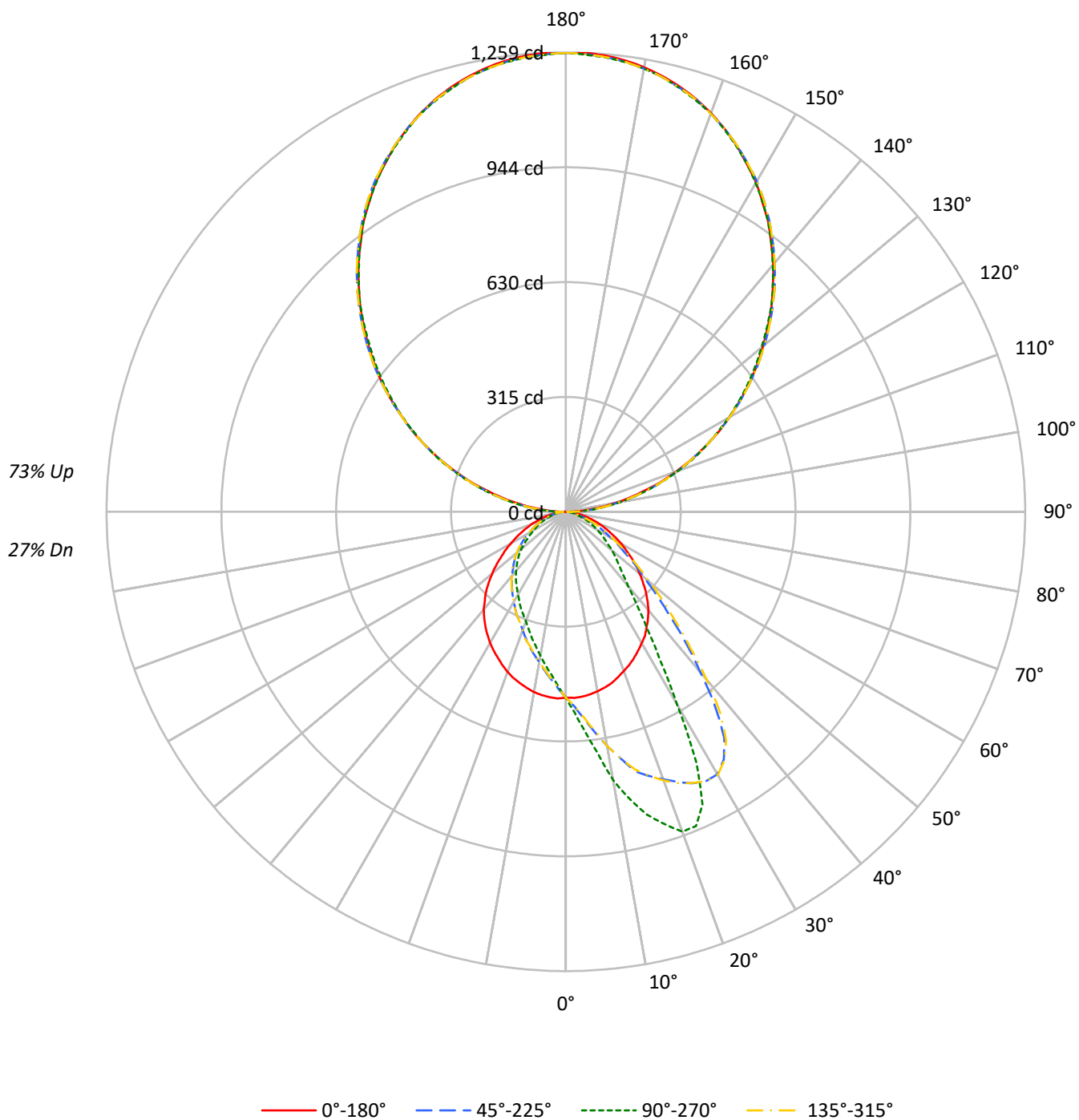
Lumens per Lamp: N/A  
Luminaire Lumens: 4756.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 44.5  
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: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 |
| 1   | 93  | 89  | 85  | 82  | 83 | 79 | 76 | 74 | 62 | 60 | 58 | 46 | 45 | 44 | 31 | 30 | 30 |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 55 | 51 | 49 | 41 | 39 | 37 | 28 | 27 | 26 |
| 3   | 77  | 69  | 62  | 56  | 69 | 62 | 56 | 51 | 48 | 44 | 41 | 36 | 34 | 31 | 25 | 23 | 22 |
| 4   | 71  | 61  | 53  | 48  | 63 | 55 | 48 | 44 | 43 | 39 | 35 | 32 | 29 | 27 | 22 | 21 | 19 |
| 5   | 65  | 54  | 47  | 41  | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 29 | 26 | 24 | 20 | 18 | 17 |
| 6   | 60  | 49  | 41  | 35  | 53 | 44 | 37 | 32 | 35 | 30 | 27 | 26 | 23 | 21 | 18 | 17 | 15 |
| 7   | 55  | 44  | 36  | 31  | 49 | 40 | 33 | 28 | 31 | 27 | 23 | 24 | 21 | 18 | 17 | 15 | 13 |
| 8   | 51  | 40  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 22 | 19 | 16 | 16 | 14 | 12 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 20 | 17 | 15 | 14 | 12 | 11 |
| 10  | 44  | 33  | 26  | 22  | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 15 | 13 | 13 | 11 | 10 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 5481 | 5481 | 5481 | 5481 |
| 5°  | 5486 | 6313 | 5500 | 4683 |
| 10° | 5437 | 7621 | 5461 | 4091 |
| 15° | 5381 | 8649 | 5381 | 3607 |
| 20° | 5270 | 9329 | 5300 | 3200 |
| 25° | 5190 | 8864 | 5180 | 2920 |
| 30° | 5096 | 6141 | 5086 | 2645 |
| 35° | 4982 | 3943 | 4960 | 2439 |
| 40° | 4842 | 2784 | 4818 | 2233 |
| 45° | 4596 | 2228 | 4591 | 2033 |
| 50° | 4296 | 1864 | 4282 | 1800 |
| 55° | 3957 | 1536 | 3926 | 1525 |
| 60° | 3625 | 1269 | 3590 | 1297 |
| 65° | 3234 | 1016 | 3256 | 1100 |
| 70° | 2877 | 706  | 2954 | 889  |
| 75° | 2438 | 524  | 2537 | 684  |
| 80° | 1944 | 347  | 2106 | 512  |
| 85° | 1383 | 164  | 1508 | 319  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 7318 cd/sqm

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.0   | 1.1       |
| 10°-20°   | 156.5  | 3.3       |
| 20°-30°   | 246.6  | 5.2       |
| 30°-40°   | 256.4  | 5.4       |
| 40°-50°   | 219.3  | 4.6       |
| 50°-60°   | 167.2  | 3.5       |
| 60°-70°   | 107.1  | 2.3       |
| 70°-80°   | 51.3   | 1.1       |
| 80°-90°   | 16.2   | 0.3       |
| 90°-100°  | 81.0   | 1.7       |
| 100°-110° | 245.1  | 5.2       |
| 110°-120° | 417.2  | 8.8       |
| 120°-130° | 548.9  | 11.5      |
| 130°-140° | 617.0  | 13.0      |
| 140°-150° | 606.5  | 12.8      |
| 150°-160° | 510.7  | 10.7      |
| 160°-170° | 340.0  | 7.1       |
| 170°-180° | 119.0  | 2.5       |
| 0°-30°    | 453.1  | 9.5       |
| 0°-40°    | 709.5  | 14.9      |
| 0°-60°    | 1096.0 | 23.0      |
| 0°-90°    | 1270.7 | 26.7      |
| 90°-120°  | 743.3  | 15.6      |
| 90°-150°  | 2515.7 | 52.9      |
| 90°-180°  | 3485.0 | 73.3      |
| 0°-180°   | 4756.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 509  | 509  | 509  | 509  | 509  |      |
| 5°   | 509  | 605  | 510  | 449  | 509  | 48   |
| 15°  | 486  | 859  | 486  | 358  | 486  | 137  |
| 25°  | 442  | 886  | 441  | 292  | 442  | 204  |
| 35°  | 386  | 384  | 384  | 238  | 386  | 241  |
| 45°  | 310  | 205  | 309  | 187  | 310  | 238  |
| 55°  | 218  | 129  | 217  | 128  | 218  | 196  |
| 65°  | 134  | 74   | 135  | 80   | 134  | 134  |
| 75°  | 64   | 31   | 67   | 41   | 64   | 69   |
| 85°  | 14   | 7    | 16   | 14   | 14   | 16   |
| 90°  | 1    | 30   | 1    | 30   | 1    | 5    |
| 95°  | 58   | 77   | 58   | 77   | 58   | 64   |
| 105° | 222  | 235  | 222  | 235  | 222  | 238  |
| 115° | 420  | 421  | 420  | 421  | 420  | 416  |
| 125° | 615  | 608  | 615  | 608  | 615  | 548  |
| 135° | 797  | 796  | 797  | 796  | 797  | 614  |
| 145° | 967  | 967  | 967  | 967  | 967  | 604  |
| 155° | 1108 | 1106 | 1108 | 1106 | 1108 | 510  |
| 165° | 1206 | 1202 | 1206 | 1202 | 1206 | 340  |
| 175° | 1255 | 1250 | 1255 | 1250 | 1255 | 119  |
| 180° | 1258 | 1258 | 1258 | 1258 | 1258 |      |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4FO-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 |
| 2.5°   | 510.5 | 514.0 | 516.6 | 518.4 | 522.7 | 525.4 | 527.5 | 531.5 | 531.5 | 532.3 | 534.1 |
| 5°     | 508.8 | 516.2 | 521.4 | 528.4 | 537.6 | 541.9 | 548.0 | 553.3 | 560.7 | 564.6 | 568.5 |
| 7.5°   | 504.9 | 515.3 | 526.2 | 536.7 | 550.2 | 558.9 | 565.0 | 578.5 | 588.1 | 599.9 | 609.1 |
| 10°    | 499.6 | 514.0 | 528.0 | 544.1 | 562.4 | 575.5 | 584.7 | 602.5 | 620.8 | 637.4 | 651.4 |
| 12.5°  | 493.1 | 510.5 | 530.6 | 550.2 | 575.9 | 589.0 | 603.8 | 626.1 | 652.2 | 673.2 | 691.9 |
| 15°    | 486.1 | 506.2 | 528.8 | 552.8 | 585.1 | 603.4 | 624.8 | 651.8 | 681.0 | 711.1 | 736.8 |
| 17.5°  | 475.2 | 500.5 | 525.8 | 560.7 | 598.6 | 609.5 | 627.8 | 664.9 | 701.1 | 728.1 | 759.5 |
| 20°    | 464.3 | 492.7 | 524.5 | 555.9 | 596.9 | 622.1 | 639.1 | 678.4 | 717.2 | 749.9 | 780.0 |
| 22.5°  | 454.3 | 483.9 | 517.1 | 556.7 | 595.1 | 620.4 | 641.8 | 682.7 | 727.7 | 764.3 | 801.3 |
| 25°    | 442.1 | 474.3 | 511.0 | 548.5 | 595.1 | 614.3 | 637.8 | 685.4 | 732.9 | 775.2 | 821.0 |
| 27.5°  | 429.0 | 461.7 | 497.9 | 536.3 | 579.0 | 607.3 | 630.4 | 681.4 | 739.4 | 784.8 | 831.9 |
| 30°    | 415.9 | 449.5 | 484.4 | 518.8 | 566.8 | 593.8 | 620.4 | 676.6 | 742.9 | 794.8 | 831.0 |
| 32.5°  | 403.3 | 431.6 | 466.1 | 499.6 | 547.2 | 576.8 | 606.9 | 671.8 | 744.2 | 787.8 | 805.3 |
| 35°    | 385.8 | 415.5 | 443.4 | 479.1 | 527.1 | 556.3 | 591.6 | 671.4 | 738.6 | 765.6 | 756.9 |
| 37.5°  | 369.7 | 394.6 | 421.2 | 453.0 | 502.2 | 540.2 | 576.8 | 660.1 | 719.8 | 721.5 | 672.3 |
| 40°    | 351.8 | 372.3 | 394.6 | 428.1 | 481.3 | 518.8 | 558.5 | 642.6 | 685.8 | 660.1 | 573.3 |
| 42.5°  | 331.3 | 349.7 | 367.1 | 399.8 | 457.8 | 499.6 | 542.4 | 620.8 | 636.5 | 577.2 | 487.0 |
| 45°    | 309.5 | 324.4 | 340.5 | 374.9 | 432.9 | 474.3 | 517.1 | 587.3 | 571.1 | 487.4 | 401.5 |
| 47.5°  | 286.9 | 299.5 | 315.2 | 346.6 | 406.3 | 448.6 | 489.2 | 539.3 | 498.3 | 408.5 | 336.6 |
| 50°    | 264.2 | 274.2 | 289.5 | 321.8 | 379.3 | 417.7 | 455.2 | 487.9 | 430.3 | 350.5 | 278.2 |
| 52.5°  | 242.0 | 249.8 | 265.5 | 293.0 | 348.8 | 385.4 | 412.4 | 425.1 | 366.7 | 289.5 | 241.5 |
| 55°    | 218.4 | 227.1 | 237.6 | 265.5 | 320.9 | 347.9 | 365.8 | 365.4 | 305.2 | 245.5 | 199.7 |
| 57.5°  | 195.8 | 203.6 | 212.8 | 240.7 | 285.6 | 303.9 | 319.1 | 311.7 | 254.6 | 201.0 | 171.3 |
| 60°    | 175.7 | 180.1 | 190.1 | 213.6 | 247.6 | 263.3 | 272.1 | 259.4 | 208.0 | 169.6 | 141.7 |
| 62.5°  | 153.9 | 158.3 | 166.5 | 188.8 | 209.7 | 218.0 | 225.4 | 209.3 | 171.8 | 138.2 | 121.2 |
| 65°    | 133.8 | 139.5 | 144.7 | 162.6 | 174.0 | 184.0 | 183.1 | 169.6 | 134.3 | 112.5 | 98.5  |
| 67.5°  | 116.4 | 118.6 | 122.9 | 133.8 | 139.1 | 146.5 | 146.9 | 131.7 | 108.1 | 91.6  | 83.3  |
| 70°    | 97.7  | 99.8  | 102.9 | 108.1 | 111.6 | 113.4 | 112.5 | 99.0  | 81.5  | 71.5  | 64.1  |
| 72.5°  | 81.5  | 81.1  | 83.3  | 83.3  | 86.8  | 86.3  | 83.7  | 73.2  | 61.9  | 53.6  | 49.3  |
| 75°    | 64.1  | 64.5  | 65.0  | 64.1  | 62.8  | 61.0  | 58.9  | 51.0  | 43.6  | 39.7  | 35.8  |
| 77.5°  | 50.1  | 49.3  | 49.7  | 46.6  | 44.9  | 43.2  | 40.1  | 36.2  | 30.1  | 29.2  | 27.5  |
| 80°    | 35.8  | 35.3  | 34.9  | 33.6  | 29.6  | 27.9  | 25.7  | 23.5  | 22.2  | 21.4  | 20.9  |
| 82.5°  | 24.0  | 24.0  | 23.1  | 20.5  | 18.3  | 17.0  | 16.6  | 15.7  | 14.4  | 14.4  | 14.0  |
| 85°    | 14.4  | 14.0  | 13.1  | 10.5  | 9.2   | 9.2   | 9.2   | 9.2   | 8.3   | 8.3   | 7.8   |
| 87.5°  | 5.7   | 5.2   | 3.9   | 3.9   | 3.5   | 3.5   | 3.5   | 3.1   | 3.1   | 2.6   | 2.6   |
| 90°    | 1.0   | 3.2   | 5.4   | 7.6   | 9.8   | 10.9  | 12.3  | 15.2  | 18.0  | 20.9  | 23.7  |
| 92.5°  | 29.6  | 30.9  | 32.3  | 33.6  | 34.9  | 35.6  | 36.3  | 37.6  | 38.9  | 40.2  | 41.5  |
| 95°    | 58.3  | 59.8  | 61.4  | 62.9  | 64.4  | 65.2  | 66.1  | 67.8  | 69.6  | 71.3  | 73.1  |
| 97.5°  | 95.8  | 96.9  | 98.0  | 99.1  | 100.2 | 100.8 | 101.5 | 102.8 | 104.1 | 105.4 | 106.7 |
| 100°   | 134.4 | 135.7 | 137.0 | 138.3 | 139.6 | 140.3 | 140.9 | 142.0 | 143.1 | 144.2 | 145.3 |
| 102.5° | 178.8 | 179.5 | 180.1 | 180.8 | 181.5 | 181.8 | 182.6 | 184.1 | 185.6 | 187.2 | 188.7 |
| 105°   | 222.3 | 222.7 | 223.2 | 223.6 | 224.1 | 224.3 | 225.3 | 227.3 | 229.2 | 231.2 | 233.2 |
| 107.5° | 273.7 | 273.9 | 274.1 | 274.4 | 274.6 | 274.7 | 275.1 | 276.0 | 276.9 | 277.7 | 278.6 |
| 110°   | 321.1 | 321.5 | 322.0 | 322.4 | 322.9 | 323.1 | 323.3 | 323.8 | 324.2 | 324.7 | 325.1 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 370.5  | 370.7  | 370.9  | 371.2  | 371.4  | 371.5  | 371.5  | 371.5  | 371.5  | 371.5  | 371.5  |
| 115°   | 420.0  | 420.6  | 421.3  | 421.9  | 422.6  | 422.9  | 422.7  | 422.2  | 421.8  | 421.3  | 420.9  |
| 117.5° | 470.3  | 470.5  | 470.7  | 471.0  | 471.2  | 471.3  | 471.1  | 470.7  | 470.2  | 469.8  | 469.4  |
| 120°   | 516.8  | 518.1  | 519.4  | 520.7  | 522.0  | 522.7  | 522.2  | 521.1  | 520.0  | 518.9  | 517.8  |
| 122.5° | 565.2  | 566.1  | 567.0  | 567.9  | 568.8  | 569.2  | 569.0  | 568.5  | 568.1  | 567.6  | 567.2  |
| 125°   | 614.6  | 615.3  | 615.9  | 616.6  | 617.3  | 617.6  | 617.4  | 616.9  | 616.5  | 616.0  | 615.6  |
| 127.5° | 660.1  | 661.4  | 662.7  | 664.0  | 665.3  | 666.0  | 665.8  | 665.3  | 664.9  | 664.4  | 664.0  |
| 130°   | 705.5  | 707.3  | 709.0  | 710.8  | 712.5  | 713.4  | 713.1  | 712.4  | 711.8  | 711.1  | 710.5  |
| 132.5° | 751.0  | 752.8  | 754.5  | 756.3  | 758.0  | 758.9  | 758.7  | 758.2  | 757.8  | 757.3  | 756.9  |
| 135°   | 797.4  | 798.7  | 800.0  | 801.3  | 802.6  | 803.3  | 803.2  | 803.0  | 802.8  | 802.6  | 802.4  |
| 137.5° | 839.9  | 841.0  | 842.1  | 843.2  | 844.3  | 844.8  | 845.1  | 845.8  | 846.5  | 847.1  | 847.8  |
| 140°   | 884.4  | 885.5  | 886.6  | 887.7  | 888.8  | 889.3  | 889.4  | 889.6  | 889.9  | 890.1  | 890.3  |
| 142.5° | 924.9  | 926.0  | 927.1  | 928.2  | 929.3  | 929.8  | 930.0  | 930.5  | 930.9  | 931.4  | 931.8  |
| 145°   | 967.4  | 967.8  | 968.2  | 968.7  | 969.1  | 969.3  | 969.6  | 970.3  | 971.0  | 971.6  | 972.3  |
| 147.5° | 1003.9 | 1004.8 | 1005.7 | 1006.6 | 1007.5 | 1007.9 | 1008.2 | 1008.9 | 1009.5 | 1010.2 | 1010.8 |
| 150°   | 1042.5 | 1042.9 | 1043.3 | 1043.8 | 1044.2 | 1044.4 | 1044.6 | 1045.1 | 1045.5 | 1046.0 | 1046.4 |
| 152.5° | 1074.1 | 1074.7 | 1075.4 | 1076.0 | 1076.7 | 1077.0 | 1077.1 | 1077.3 | 1077.6 | 1077.8 | 1078.0 |
| 155°   | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.8 | 1108.0 | 1108.3 | 1108.5 | 1108.7 |
| 157.5° | 1136.3 | 1136.1 | 1135.9 | 1135.6 | 1135.4 | 1135.3 | 1135.4 | 1135.6 | 1135.9 | 1136.1 | 1136.3 |
| 160°   | 1163.0 | 1162.6 | 1162.1 | 1161.7 | 1161.2 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 |
| 162.5° | 1186.7 | 1186.1 | 1185.4 | 1184.8 | 1184.1 | 1183.8 | 1183.9 | 1184.1 | 1184.4 | 1184.6 | 1184.8 |
| 165°   | 1206.5 | 1205.8 | 1205.2 | 1204.5 | 1203.8 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.5 |
| 167.5° | 1223.3 | 1222.4 | 1221.5 | 1220.6 | 1219.7 | 1219.3 | 1219.4 | 1219.6 | 1219.9 | 1220.1 | 1220.3 |
| 170°   | 1237.1 | 1236.2 | 1235.4 | 1234.5 | 1233.6 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 |
| 172.5° | 1248.0 | 1247.1 | 1246.2 | 1245.3 | 1244.4 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 |
| 175°   | 1254.9 | 1254.0 | 1253.2 | 1252.3 | 1251.4 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.0 |
| 177.5° | 1258.9 | 1258.0 | 1257.1 | 1256.2 | 1255.3 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 |
| 2.5°   | 537.6 | 537.6 | 541.5 | 545.4 | 543.2 | 544.5 | 549.3 | 547.6 | 551.1 | 550.6 | 552.0 |
| 5°     | 578.1 | 582.9 | 586.8 | 595.1 | 596.4 | 595.1 | 603.4 | 605.6 | 609.5 | 604.7 | 606.9 |
| 7.5°   | 623.9 | 633.9 | 643.5 | 655.7 | 659.6 | 660.5 | 664.9 | 671.0 | 676.2 | 666.6 | 671.4 |
| 10°    | 668.4 | 683.6 | 703.2 | 714.1 | 723.7 | 727.2 | 730.7 | 734.6 | 740.7 | 746.4 | 742.0 |
| 12.5°  | 716.3 | 738.6 | 757.3 | 776.9 | 788.7 | 787.4 | 797.4 | 800.0 | 804.8 | 806.1 | 807.9 |
| 15°    | 755.6 | 786.9 | 798.7 | 827.9 | 830.5 | 839.3 | 850.6 | 860.6 | 861.9 | 859.3 | 859.3 |
| 17.5°  | 793.0 | 820.1 | 841.0 | 864.6 | 869.3 | 876.8 | 891.1 | 895.9 | 897.7 | 897.2 | 897.2 |
| 20°    | 823.6 | 841.4 | 876.8 | 896.4 | 904.2 | 913.8 | 923.8 | 929.9 | 931.3 | 933.0 | 930.4 |
| 22.5°  | 843.6 | 870.7 | 899.4 | 915.6 | 922.1 | 925.6 | 932.1 | 933.9 | 931.7 | 932.1 | 932.6 |
| 25°    | 859.3 | 885.9 | 903.4 | 907.7 | 907.3 | 902.9 | 898.1 | 889.8 | 889.0 | 885.5 | 878.5 |
| 27.5°  | 863.7 | 873.7 | 871.5 | 853.7 | 835.8 | 834.0 | 805.3 | 789.6 | 771.7 | 774.3 | 764.3 |
| 30°    | 840.1 | 827.1 | 796.1 | 750.8 | 732.0 | 701.5 | 669.2 | 635.7 | 622.6 | 608.2 | 634.8 |
| 32.5°  | 782.6 | 735.9 | 681.0 | 622.1 | 590.8 | 563.7 | 529.3 | 504.9 | 490.9 | 479.1 | 501.8 |
| 35°    | 695.8 | 623.0 | 550.2 | 494.4 | 468.7 | 444.3 | 412.0 | 399.8 | 382.4 | 384.1 | 386.3 |
| 37.5°  | 584.2 | 504.0 | 449.1 | 394.1 | 377.1 | 367.1 | 343.6 | 324.8 | 318.7 | 317.0 | 317.0 |
| 40°    | 479.6 | 413.7 | 364.9 | 321.8 | 308.7 | 300.4 | 281.6 | 272.9 | 266.4 | 264.6 | 266.8 |
| 42.5°  | 396.7 | 340.5 | 302.6 | 273.8 | 264.6 | 254.2 | 246.3 | 235.4 | 234.1 | 231.1 | 235.0 |
| 45°    | 333.1 | 284.3 | 255.9 | 235.0 | 227.1 | 223.2 | 214.5 | 208.0 | 205.3 | 204.9 | 208.0 |
| 47.5°  | 282.5 | 244.6 | 219.7 | 206.7 | 200.6 | 196.6 | 189.2 | 186.6 | 184.0 | 184.9 | 183.5 |
| 50°    | 237.2 | 208.8 | 192.7 | 180.9 | 177.0 | 173.1 | 168.3 | 165.7 | 164.4 | 164.4 | 163.9 |
| 52.5°  | 203.6 | 180.1 | 169.6 | 158.7 | 157.0 | 154.8 | 149.5 | 147.8 | 145.6 | 145.2 | 146.9 |
| 55°    | 174.4 | 158.3 | 147.8 | 141.3 | 139.5 | 135.2 | 133.0 | 130.8 | 129.5 | 128.6 | 129.1 |
| 57.5°  | 149.1 | 136.9 | 129.9 | 124.3 | 121.2 | 119.5 | 115.5 | 115.1 | 114.2 | 114.2 | 113.8 |
| 60°    | 128.2 | 119.5 | 111.2 | 107.7 | 105.5 | 103.3 | 102.9 | 100.3 | 99.0  | 99.8  | 99.4  |
| 62.5°  | 108.6 | 101.6 | 96.8  | 92.9  | 91.6  | 89.8  | 88.5  | 87.6  | 86.3  | 86.8  | 86.8  |
| 65°    | 90.7  | 85.0  | 81.5  | 78.0  | 77.6  | 75.9  | 75.4  | 74.6  | 74.6  | 74.1  | 75.0  |
| 67.5°  | 74.6  | 70.6  | 67.6  | 65.4  | 64.1  | 64.5  | 62.8  | 61.5  | 61.5  | 61.0  | 62.3  |
| 70°    | 59.3  | 57.1  | 54.1  | 51.4  | 49.7  | 49.7  | 47.5  | 47.1  | 47.1  | 47.1  | 46.6  |
| 72.5°  | 45.8  | 41.9  | 40.5  | 39.7  | 39.7  | 39.7  | 38.8  | 38.8  | 38.4  | 38.8  | 38.4  |
| 75°    | 34.0  | 33.6  | 32.7  | 32.3  | 32.3  | 31.8  | 31.4  | 31.4  | 31.4  | 31.4  | 31.4  |
| 77.5°  | 26.6  | 26.6  | 25.7  | 25.3  | 25.3  | 25.3  | 24.9  | 24.9  | 24.4  | 24.4  | 24.4  |
| 80°    | 19.6  | 19.6  | 18.7  | 18.7  | 18.7  | 18.3  | 18.3  | 18.3  | 18.7  | 18.3  | 18.3  |
| 82.5°  | 13.5  | 13.5  | 13.1  | 13.5  | 13.1  | 12.6  | 12.6  | 12.6  | 12.2  | 12.6  | 12.6  |
| 85°    | 7.8   | 7.8   | 7.4   | 7.0   | 7.4   | 7.4   | 7.0   | 7.4   | 7.0   | 7.4   | 7.0   |
| 87.5°  | 3.1   | 2.6   | 2.6   | 2.6   | 2.2   | 2.6   | 2.2   | 2.2   | 2.6   | 2.2   | 2.6   |
| 90°    | 24.6  | 25.5  | 26.4  | 27.3  | 27.7  | 27.9  | 28.3  | 28.8  | 29.2  | 29.6  | 29.2  |
| 92.5°  | 42.2  | 42.8  | 43.5  | 44.2  | 44.5  | 44.3  | 43.8  | 43.4  | 42.9  | 42.5  | 42.9  |
| 95°    | 74.0  | 74.9  | 75.8  | 76.7  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  |
| 97.5°  | 107.8 | 108.9 | 110.0 | 111.1 | 111.7 | 111.6 | 111.4 | 111.1 | 110.9 | 110.7 | 110.9 |
| 100°   | 145.9 | 146.6 | 147.2 | 147.9 | 148.2 | 148.4 | 148.9 | 149.3 | 149.8 | 150.2 | 149.8 |
| 102.5° | 189.4 | 190.0 | 190.7 | 191.4 | 191.7 | 191.6 | 191.4 | 191.1 | 190.9 | 190.7 | 190.9 |
| 105°   | 233.2 | 233.2 | 233.2 | 233.2 | 233.2 | 233.4 | 233.9 | 234.3 | 234.8 | 235.2 | 234.8 |
| 107.5° | 279.3 | 279.9 | 280.6 | 281.3 | 281.6 | 281.5 | 281.3 | 281.0 | 280.8 | 280.6 | 280.8 |
| 110°   | 326.0 | 326.8 | 327.7 | 328.6 | 329.0 | 328.8 | 328.4 | 327.9 | 327.5 | 327.1 | 327.5 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 372.6  | 373.7  | 374.8  | 375.9  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  |
| 115°   | 421.1  | 421.3  | 421.6  | 421.8  | 421.9  | 421.8  | 421.6  | 421.3  | 421.1  | 420.9  | 421.1  |
| 117.5° | 469.4  | 469.4  | 469.4  | 469.4  | 469.4  | 469.1  | 468.4  | 467.7  | 467.1  | 466.4  | 467.1  |
| 120°   | 517.6  | 517.4  | 517.1  | 516.9  | 516.8  | 516.6  | 516.1  | 515.7  | 515.2  | 514.8  | 515.2  |
| 122.5° | 566.5  | 565.9  | 565.2  | 564.5  | 564.2  | 563.9  | 563.2  | 562.6  | 561.9  | 561.3  | 561.9  |
| 125°   | 614.7  | 613.8  | 612.9  | 612.0  | 611.6  | 611.2  | 610.3  | 609.4  | 608.6  | 607.7  | 608.6  |
| 127.5° | 662.7  | 661.4  | 660.1  | 658.8  | 658.1  | 657.7  | 656.8  | 655.9  | 655.0  | 654.1  | 655.0  |
| 130°   | 709.6  | 708.7  | 707.8  | 706.9  | 706.5  | 705.7  | 704.2  | 702.7  | 701.1  | 699.6  | 701.1  |
| 132.5° | 755.8  | 754.7  | 753.6  | 752.5  | 752.0  | 751.4  | 750.3  | 749.2  | 748.1  | 747.0  | 748.1  |
| 135°   | 801.5  | 800.6  | 799.7  | 798.8  | 798.4  | 798.2  | 797.7  | 797.3  | 796.8  | 796.4  | 796.8  |
| 137.5° | 846.7  | 845.6  | 844.5  | 843.4  | 842.9  | 842.6  | 841.9  | 841.2  | 840.6  | 839.9  | 840.6  |
| 140°   | 890.1  | 889.9  | 889.6  | 889.4  | 889.3  | 888.5  | 887.0  | 885.5  | 883.9  | 882.4  | 883.9  |
| 142.5° | 931.6  | 931.4  | 931.1  | 930.9  | 930.8  | 930.3  | 929.2  | 928.1  | 927.0  | 925.9  | 927.0  |
| 145°   | 972.1  | 971.9  | 971.6  | 971.4  | 971.3  | 970.9  | 970.0  | 969.1  | 968.3  | 967.4  | 968.3  |
| 147.5° | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.1 | 1008.8 | 1007.5 | 1006.2 | 1004.9 | 1006.2 |
| 150°   | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1045.7 | 1044.4 | 1043.1 | 1041.8 | 1040.5 | 1041.8 |
| 152.5° | 1078.4 | 1078.9 | 1079.3 | 1079.8 | 1080.0 | 1079.5 | 1078.4 | 1077.3 | 1076.2 | 1075.1 | 1076.2 |
| 155°   | 1109.6 | 1110.4 | 1111.3 | 1112.2 | 1112.6 | 1111.8 | 1110.3 | 1108.8 | 1107.2 | 1105.7 | 1107.2 |
| 157.5° | 1137.2 | 1138.1 | 1139.0 | 1139.9 | 1140.3 | 1139.6 | 1138.3 | 1137.0 | 1135.7 | 1134.4 | 1135.7 |
| 160°   | 1162.1 | 1163.2 | 1164.3 | 1165.4 | 1166.0 | 1165.6 | 1164.7 | 1163.8 | 1162.9 | 1162.0 | 1162.9 |
| 162.5° | 1185.9 | 1187.0 | 1188.1 | 1189.2 | 1189.7 | 1188.9 | 1187.4 | 1185.9 | 1184.3 | 1182.8 | 1184.3 |
| 165°   | 1204.8 | 1206.2 | 1207.5 | 1208.8 | 1209.5 | 1208.7 | 1207.2 | 1205.6 | 1204.1 | 1202.5 | 1204.1 |
| 167.5° | 1221.6 | 1223.0 | 1224.3 | 1225.6 | 1226.3 | 1225.6 | 1224.3 | 1223.0 | 1221.6 | 1220.3 | 1221.6 |
| 170°   | 1234.7 | 1236.3 | 1237.8 | 1239.3 | 1240.1 | 1239.3 | 1237.8 | 1236.3 | 1234.7 | 1233.2 | 1234.7 |
| 172.5° | 1245.3 | 1246.7 | 1248.0 | 1249.3 | 1250.0 | 1249.2 | 1247.7 | 1246.2 | 1244.6 | 1243.1 | 1244.6 |
| 175°   | 1252.3 | 1253.6 | 1254.9 | 1256.2 | 1256.9 | 1256.1 | 1254.6 | 1253.1 | 1251.5 | 1250.0 | 1251.5 |
| 177.5° | 1256.2 | 1257.5 | 1258.8 | 1260.1 | 1260.8 | 1260.0 | 1258.5 | 1257.0 | 1255.4 | 1253.9 | 1255.4 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4FO-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 509.2 | 509.2 | 509.2 | 509.2  | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 |
| 2.5°   | 549.8 | 547.2 | 545.4 | 544.1  | 542.8 | 546.7 | 541.5 | 535.8 | 531.9 | 529.3 | 528.4 |
| 5°     | 607.3 | 601.7 | 596.9 | 592.9  | 593.8 | 593.8 | 584.7 | 574.6 | 565.9 | 561.1 | 555.9 |
| 7.5°   | 674.0 | 667.9 | 658.3 | 656.2  | 654.4 | 643.5 | 634.4 | 616.0 | 605.1 | 594.2 | 584.7 |
| 10°    | 740.3 | 732.4 | 723.3 | 720.2  | 715.9 | 702.4 | 688.4 | 664.9 | 651.4 | 631.3 | 618.7 |
| 12.5°  | 802.2 | 792.6 | 783.5 | 781.3  | 774.7 | 763.0 | 739.0 | 714.6 | 691.5 | 670.1 | 647.9 |
| 15°    | 854.1 | 851.5 | 837.5 | 828.8  | 814.4 | 798.3 | 793.0 | 759.9 | 730.7 | 708.5 | 668.4 |
| 17.5°  | 897.7 | 885.5 | 872.4 | 866.7  | 861.1 | 842.3 | 823.6 | 789.6 | 758.2 | 725.5 | 699.7 |
| 20°    | 932.6 | 919.0 | 909.9 | 901.6  | 899.0 | 877.6 | 848.0 | 817.9 | 783.5 | 746.8 | 713.3 |
| 22.5°  | 934.3 | 932.6 | 926.5 | 921.7  | 916.4 | 902.5 | 878.9 | 841.4 | 804.8 | 764.7 | 720.7 |
| 25°    | 898.1 | 895.5 | 912.9 | 908.6  | 912.1 | 906.8 | 894.2 | 862.8 | 820.1 | 773.0 | 728.5 |
| 27.5°  | 789.1 | 815.7 | 843.2 | 852.8  | 859.3 | 878.1 | 884.2 | 866.7 | 832.3 | 782.1 | 732.4 |
| 30°    | 640.9 | 676.2 | 720.7 | 744.7  | 763.0 | 797.8 | 843.2 | 848.9 | 832.7 | 792.6 | 731.6 |
| 32.5°  | 503.1 | 535.4 | 571.1 | 599.5  | 623.9 | 695.4 | 756.4 | 800.5 | 808.3 | 787.4 | 733.8 |
| 35°    | 405.5 | 419.4 | 453.4 | 480.5  | 513.6 | 574.6 | 646.6 | 717.6 | 765.6 | 768.2 | 727.2 |
| 37.5°  | 334.4 | 341.8 | 371.5 | 386.7  | 406.3 | 460.0 | 527.1 | 620.0 | 694.5 | 729.8 | 708.9 |
| 40°    | 276.8 | 293.9 | 310.9 | 319.6  | 333.5 | 370.6 | 435.1 | 507.9 | 600.3 | 665.7 | 680.6 |
| 42.5°  | 240.2 | 247.6 | 258.5 | 270.7  | 279.5 | 311.7 | 354.9 | 421.6 | 504.9 | 596.0 | 637.0 |
| 45°    | 211.9 | 214.5 | 225.8 | 233.7  | 242.8 | 265.5 | 296.0 | 351.8 | 425.1 | 514.9 | 584.7 |
| 47.5°  | 188.3 | 193.6 | 199.7 | 204.5  | 210.6 | 228.0 | 254.2 | 294.7 | 359.2 | 439.5 | 514.5 |
| 50°    | 167.4 | 170.5 | 178.3 | 180.5  | 184.9 | 197.1 | 217.1 | 248.1 | 301.3 | 365.4 | 443.0 |
| 52.5°  | 147.8 | 153.5 | 156.5 | 159.6  | 163.5 | 173.5 | 186.6 | 211.9 | 252.0 | 312.2 | 378.0 |
| 55°    | 132.5 | 134.3 | 138.6 | 141.3  | 144.3 | 151.3 | 162.6 | 181.4 | 212.8 | 260.7 | 323.1 |
| 57.5°  | 117.7 | 117.7 | 122.1 | 124.3  | 127.3 | 132.5 | 142.6 | 157.0 | 179.6 | 215.4 | 272.5 |
| 60°    | 102.0 | 102.5 | 105.9 | 108.6  | 109.4 | 114.7 | 122.9 | 134.3 | 151.7 | 177.9 | 224.5 |
| 62.5°  | 88.1  | 90.2  | 92.0  | 92.9   | 95.9  | 99.0  | 105.9 | 113.8 | 126.0 | 149.1 | 182.2 |
| 65°    | 76.3  | 76.7  | 78.0  | 78.9   | 80.2  | 83.7  | 88.9  | 94.2  | 104.6 | 121.6 | 148.7 |
| 67.5°  | 62.8  | 64.5  | 66.3  | 66.3   | 67.6  | 69.3  | 74.6  | 78.9  | 86.8  | 96.8  | 115.1 |
| 70°    | 47.1  | 48.0  | 50.6  | 51.9   | 53.6  | 56.7  | 59.3  | 61.9  | 68.0  | 75.4  | 89.4  |
| 72.5°  | 39.2  | 39.2  | 40.1  | 40.5   | 40.5  | 42.7  | 46.6  | 49.3  | 52.3  | 57.5  | 67.1  |
| 75°    | 31.4  | 31.4  | 32.7  | 32.3   | 33.1  | 34.0  | 34.4  | 36.2  | 37.9  | 41.9  | 47.5  |
| 77.5°  | 24.9  | 25.3  | 25.3  | 25.7   | 25.7  | 26.2  | 26.6  | 27.5  | 28.3  | 30.5  | 33.1  |
| 80°    | 18.3  | 18.7  | 18.7  | 19.2   | 19.2  | 19.6  | 20.1  | 20.5  | 21.4  | 22.2  | 23.5  |
| 82.5°  | 12.6  | 13.1  | 13.1  | 13.5   | 13.1  | 13.5  | 14.0  | 14.0  | 14.4  | 15.3  | 15.7  |
| 85°    | 7.4   | 7.4   | 7.8   | 7.4    | 7.4   | 7.4   | 7.8   | 7.8   | 8.3   | 9.6   | 9.6   |
| 87.5°  | 2.2   | 2.6   | 2.2   | 2.6    | 2.6   | 2.6   | 2.6   | 3.1   | 3.1   | 3.5   | 3.9   |
| 90°    | 28.8  | 28.3  | 27.9  | 27.7   | 27.3  | 26.4  | 25.5  | 24.6  | 23.7  | 20.9  | 18.0  |
| 92.5°  | 43.4  | 43.8  | 44.3  | 44.5   | 44.2  | 43.5  | 42.8  | 42.2  | 41.5  | 40.2  | 38.9  |
| 95°    | 77.1  | 77.1  | 77.1  | 77.1   | 76.7  | 75.8  | 74.9  | 74.0  | 73.1  | 71.3  | 69.6  |
| 97.5°  | 111.1 | 111.4 | 111.6 | 111.7  | 111.1 | 110.0 | 108.9 | 107.8 | 106.7 | 105.4 | 104.1 |
| 100°   | 149.3 | 148.9 | 148.4 | 148.2  | 147.9 | 147.2 | 146.6 | 145.9 | 145.3 | 144.2 | 143.1 |
| 102.5° | 191.1 | 191.4 | 191.6 | 191.7  | 191.4 | 190.7 | 190.0 | 189.4 | 188.7 | 187.2 | 185.6 |
| 105°   | 234.3 | 233.9 | 233.4 | 233.2  | 233.2 | 233.2 | 233.2 | 233.2 | 233.2 | 231.2 | 229.2 |
| 107.5° | 281.0 | 281.3 | 281.5 | 281.6  | 281.3 | 280.6 | 279.9 | 279.3 | 278.6 | 277.7 | 276.9 |
| 110°   | 327.9 | 328.4 | 328.8 | 329.0  | 328.6 | 327.7 | 326.8 | 326.0 | 325.1 | 324.7 | 324.2 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 376.5  | 376.5  | 376.5  | 376.5  | 375.9  | 374.8  | 373.7  | 372.6  | 371.5  | 371.5  | 371.5  |
| 115°   | 421.3  | 421.6  | 421.8  | 421.9  | 421.8  | 421.6  | 421.3  | 421.1  | 420.9  | 421.3  | 421.8  |
| 117.5° | 467.7  | 468.4  | 469.1  | 469.4  | 469.4  | 469.4  | 469.4  | 469.4  | 469.4  | 469.8  | 470.2  |
| 120°   | 515.7  | 516.1  | 516.6  | 516.8  | 516.9  | 517.1  | 517.4  | 517.6  | 517.8  | 518.9  | 520.0  |
| 122.5° | 562.6  | 563.2  | 563.9  | 564.2  | 564.5  | 565.2  | 565.9  | 566.5  | 567.2  | 567.6  | 568.1  |
| 125°   | 609.4  | 610.3  | 611.2  | 611.6  | 612.0  | 612.9  | 613.8  | 614.7  | 615.6  | 616.0  | 616.5  |
| 127.5° | 655.9  | 656.8  | 657.7  | 658.1  | 658.8  | 660.1  | 661.4  | 662.7  | 664.0  | 664.4  | 664.9  |
| 130°   | 702.7  | 704.2  | 705.7  | 706.5  | 706.9  | 707.8  | 708.7  | 709.6  | 710.5  | 711.1  | 711.8  |
| 132.5° | 749.2  | 750.3  | 751.4  | 752.0  | 752.5  | 753.6  | 754.7  | 755.8  | 756.9  | 757.3  | 757.8  |
| 135°   | 797.3  | 797.7  | 798.2  | 798.4  | 798.8  | 799.7  | 800.6  | 801.5  | 802.4  | 802.6  | 802.8  |
| 137.5° | 841.2  | 841.9  | 842.6  | 842.9  | 843.4  | 844.5  | 845.6  | 846.7  | 847.8  | 847.1  | 846.5  |
| 140°   | 885.5  | 887.0  | 888.5  | 889.3  | 889.4  | 889.6  | 889.9  | 890.1  | 890.3  | 890.1  | 889.9  |
| 142.5° | 928.1  | 929.2  | 930.3  | 930.8  | 930.9  | 931.1  | 931.4  | 931.6  | 931.8  | 931.4  | 930.9  |
| 145°   | 969.1  | 970.0  | 970.9  | 971.3  | 971.4  | 971.6  | 971.9  | 972.1  | 972.3  | 971.6  | 971.0  |
| 147.5° | 1007.5 | 1008.8 | 1010.1 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.2 | 1009.5 |
| 150°   | 1043.1 | 1044.4 | 1045.7 | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.0 | 1045.5 |
| 152.5° | 1077.3 | 1078.4 | 1079.5 | 1080.0 | 1079.8 | 1079.3 | 1078.9 | 1078.4 | 1078.0 | 1077.8 | 1077.6 |
| 155°   | 1108.8 | 1110.3 | 1111.8 | 1112.6 | 1112.2 | 1111.3 | 1110.4 | 1109.6 | 1108.7 | 1108.5 | 1108.3 |
| 157.5° | 1137.0 | 1138.3 | 1139.6 | 1140.3 | 1139.9 | 1139.0 | 1138.1 | 1137.2 | 1136.3 | 1136.1 | 1135.9 |
| 160°   | 1163.8 | 1164.7 | 1165.6 | 1166.0 | 1165.4 | 1164.3 | 1163.2 | 1162.1 | 1161.0 | 1161.0 | 1161.0 |
| 162.5° | 1185.9 | 1187.4 | 1188.9 | 1189.7 | 1189.2 | 1188.1 | 1187.0 | 1185.9 | 1184.8 | 1184.6 | 1184.4 |
| 165°   | 1205.6 | 1207.2 | 1208.7 | 1209.5 | 1208.8 | 1207.5 | 1206.2 | 1204.8 | 1203.5 | 1203.5 | 1203.5 |
| 167.5° | 1223.0 | 1224.3 | 1225.6 | 1226.3 | 1225.6 | 1224.3 | 1223.0 | 1221.6 | 1220.3 | 1220.1 | 1219.9 |
| 170°   | 1236.3 | 1237.8 | 1239.3 | 1240.1 | 1239.3 | 1237.8 | 1236.3 | 1234.7 | 1233.2 | 1233.2 | 1233.2 |
| 172.5° | 1246.2 | 1247.7 | 1249.2 | 1250.0 | 1249.3 | 1248.0 | 1246.7 | 1245.3 | 1244.0 | 1244.0 | 1244.0 |
| 175°   | 1253.1 | 1254.6 | 1256.1 | 1256.9 | 1256.2 | 1254.9 | 1253.6 | 1252.3 | 1251.0 | 1251.0 | 1251.0 |
| 177.5° | 1257.0 | 1258.5 | 1260.0 | 1260.8 | 1260.1 | 1258.8 | 1257.5 | 1256.2 | 1254.9 | 1254.9 | 1254.9 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 509.2 | 509.2 | 509.2  | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 |
| 2.5°   | 527.1 | 524.9 | 522.7  | 522.7 | 517.9 | 513.6 | 511.4 | 512.3 | 509.7 | 506.2 | 502.7 |
| 5°     | 550.2 | 541.5 | 539.7  | 534.9 | 528.4 | 519.3 | 514.5 | 510.1 | 504.9 | 497.9 | 491.4 |
| 7.5°   | 571.6 | 560.2 | 554.1  | 549.3 | 536.7 | 524.0 | 513.6 | 506.6 | 497.5 | 487.0 | 479.1 |
| 10°    | 599.5 | 578.5 | 572.0  | 561.1 | 543.2 | 525.4 | 513.1 | 501.8 | 489.2 | 477.0 | 466.5 |
| 12.5°  | 621.7 | 597.7 | 585.5  | 574.6 | 551.5 | 528.8 | 508.4 | 494.4 | 479.1 | 465.6 | 452.1 |
| 15°    | 647.0 | 620.0 | 598.6  | 585.5 | 556.3 | 528.8 | 505.7 | 486.1 | 469.1 | 452.5 | 440.8 |
| 17.5°  | 659.2 | 625.2 | 615.6  | 596.9 | 554.6 | 527.1 | 498.8 | 477.8 | 457.3 | 438.2 | 424.2 |
| 20°    | 678.4 | 638.7 | 614.7  | 602.1 | 564.6 | 524.0 | 490.9 | 466.9 | 445.6 | 425.1 | 410.3 |
| 22.5°  | 679.7 | 636.5 | 620.8  | 596.9 | 550.6 | 514.9 | 483.9 | 454.7 | 429.9 | 410.7 | 395.4 |
| 25°    | 676.6 | 632.6 | 610.8  | 591.6 | 553.3 | 509.7 | 470.0 | 441.2 | 416.8 | 394.6 | 376.7 |
| 27.5°  | 675.3 | 621.3 | 600.8  | 581.6 | 538.4 | 494.4 | 461.7 | 429.0 | 401.1 | 381.5 | 363.2 |
| 30°    | 673.6 | 609.1 | 584.2  | 562.0 | 522.3 | 482.6 | 443.4 | 415.1 | 388.5 | 363.6 | 345.3 |
| 32.5°  | 662.3 | 592.5 | 567.2  | 543.7 | 500.9 | 461.3 | 430.3 | 400.2 | 371.5 | 348.3 | 331.8 |
| 35°    | 658.8 | 577.2 | 544.1  | 518.8 | 477.0 | 441.6 | 409.0 | 384.1 | 357.1 | 334.0 | 314.3 |
| 37.5°  | 648.7 | 561.5 | 525.8  | 493.5 | 449.9 | 416.4 | 392.4 | 367.5 | 341.4 | 316.5 | 300.8 |
| 40°    | 631.3 | 543.2 | 502.7  | 469.6 | 424.6 | 390.6 | 368.4 | 350.1 | 324.4 | 302.1 | 283.0 |
| 42.5°  | 605.6 | 524.5 | 480.9  | 446.0 | 396.3 | 364.5 | 346.2 | 328.7 | 306.9 | 283.8 | 268.1 |
| 45°    | 575.9 | 499.6 | 459.1  | 420.3 | 369.7 | 338.8 | 319.6 | 309.1 | 289.1 | 269.4 | 251.1 |
| 47.5°  | 535.4 | 473.9 | 433.8  | 393.7 | 342.2 | 312.2 | 296.9 | 286.4 | 272.5 | 251.1 | 236.3 |
| 50°    | 484.4 | 440.8 | 402.8  | 367.1 | 315.2 | 286.4 | 271.2 | 263.3 | 251.6 | 236.3 | 221.9 |
| 52.5°  | 427.7 | 402.4 | 371.0  | 337.9 | 287.7 | 260.7 | 246.8 | 240.7 | 231.9 | 217.6 | 205.3 |
| 55°    | 370.6 | 359.7 | 338.3  | 305.6 | 259.0 | 236.7 | 224.5 | 216.7 | 210.1 | 199.7 | 189.2 |
| 57.5°  | 319.6 | 314.3 | 299.5  | 274.2 | 235.0 | 211.9 | 201.4 | 196.2 | 191.0 | 183.1 | 172.6 |
| 60°    | 266.8 | 272.5 | 257.2  | 244.6 | 208.8 | 188.8 | 179.6 | 174.0 | 171.3 | 164.4 | 157.8 |
| 62.5°  | 221.0 | 226.3 | 217.6  | 208.0 | 182.7 | 164.8 | 159.1 | 153.9 | 152.2 | 146.1 | 139.5 |
| 65°    | 179.6 | 186.2 | 179.6  | 174.4 | 159.1 | 144.3 | 137.3 | 134.7 | 133.0 | 129.1 | 123.8 |
| 67.5°  | 143.0 | 149.5 | 146.5  | 139.9 | 135.2 | 122.9 | 119.0 | 116.4 | 115.5 | 112.5 | 108.1 |
| 70°    | 107.7 | 116.8 | 117.7  | 113.8 | 109.4 | 103.8 | 101.1 | 100.3 | 98.1  | 95.5  | 92.9  |
| 72.5°  | 77.6  | 88.1  | 88.5   | 88.5  | 85.9  | 85.9  | 83.3  | 82.0  | 82.0  | 79.3  | 76.3  |
| 75°    | 57.1  | 64.1  | 65.0   | 65.8  | 67.1  | 68.4  | 66.7  | 66.7  | 66.3  | 63.7  | 62.3  |
| 77.5°  | 37.9  | 44.0  | 46.2   | 49.3  | 51.0  | 51.0  | 51.9  | 52.8  | 51.9  | 50.6  | 49.7  |
| 80°    | 24.4  | 28.8  | 31.4   | 33.1  | 35.8  | 37.1  | 38.4  | 38.8  | 37.9  | 37.5  | 36.2  |
| 82.5°  | 16.1  | 17.4  | 18.7   | 20.9  | 24.0  | 26.2  | 26.2  | 25.7  | 26.6  | 26.2  | 25.7  |
| 85°    | 9.2   | 10.0  | 10.5   | 10.9  | 12.6  | 14.8  | 15.3  | 15.7  | 16.6  | 15.7  | 14.8  |
| 87.5°  | 3.5   | 3.9   | 3.9    | 3.9   | 4.8   | 5.2   | 6.5   | 8.3   | 7.8   | 7.0   | 7.0   |
| 90°    | 15.2  | 12.3  | 10.9   | 9.8   | 7.6   | 5.4   | 3.2   | 1.0   | 3.2   | 5.4   | 7.6   |
| 92.5°  | 37.6  | 36.3  | 35.6   | 34.9  | 33.6  | 32.3  | 30.9  | 29.6  | 30.9  | 32.3  | 33.6  |
| 95°    | 67.8  | 66.1  | 65.2   | 64.4  | 62.9  | 61.4  | 59.8  | 58.3  | 59.8  | 61.4  | 62.9  |
| 97.5°  | 102.8 | 101.5 | 100.8  | 100.2 | 99.1  | 98.0  | 96.9  | 95.8  | 96.9  | 98.0  | 99.1  |
| 100°   | 142.0 | 140.9 | 140.3  | 139.6 | 138.3 | 137.0 | 135.7 | 134.4 | 135.7 | 137.0 | 138.3 |
| 102.5° | 184.1 | 182.6 | 181.8  | 181.5 | 180.8 | 180.1 | 179.5 | 178.8 | 179.5 | 180.1 | 180.8 |
| 105°   | 227.3 | 225.3 | 224.3  | 224.1 | 223.6 | 223.2 | 222.7 | 222.3 | 222.7 | 223.2 | 223.6 |
| 107.5° | 276.0 | 275.1 | 274.7  | 274.6 | 274.4 | 274.1 | 273.9 | 273.7 | 273.9 | 274.1 | 274.4 |
| 110°   | 323.8 | 323.3 | 323.1  | 322.9 | 322.4 | 322.0 | 321.5 | 321.1 | 321.5 | 322.0 | 322.4 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 371.5  | 371.5  | 371.5  | 371.4  | 371.2  | 370.9  | 370.7  | 370.5  | 370.7  | 370.9  | 371.2  |
| 115°   | 422.2  | 422.7  | 422.9  | 422.6  | 421.9  | 421.3  | 420.6  | 420.0  | 420.6  | 421.3  | 421.9  |
| 117.5° | 470.7  | 471.1  | 471.3  | 471.2  | 471.0  | 470.7  | 470.5  | 470.3  | 470.5  | 470.7  | 471.0  |
| 120°   | 521.1  | 522.2  | 522.7  | 522.0  | 520.7  | 519.4  | 518.1  | 516.8  | 518.1  | 519.4  | 520.7  |
| 122.5° | 568.5  | 569.0  | 569.2  | 568.8  | 567.9  | 567.0  | 566.1  | 565.2  | 566.1  | 567.0  | 567.9  |
| 125°   | 616.9  | 617.4  | 617.6  | 617.3  | 616.6  | 615.9  | 615.3  | 614.6  | 615.3  | 615.9  | 616.6  |
| 127.5° | 665.3  | 665.8  | 666.0  | 665.3  | 664.0  | 662.7  | 661.4  | 660.1  | 661.4  | 662.7  | 664.0  |
| 130°   | 712.4  | 713.1  | 713.4  | 712.5  | 710.8  | 709.0  | 707.3  | 705.5  | 707.3  | 709.0  | 710.8  |
| 132.5° | 758.2  | 758.7  | 758.9  | 758.0  | 756.3  | 754.5  | 752.8  | 751.0  | 752.8  | 754.5  | 756.3  |
| 135°   | 803.0  | 803.2  | 803.3  | 802.6  | 801.3  | 800.0  | 798.7  | 797.4  | 798.7  | 800.0  | 801.3  |
| 137.5° | 845.8  | 845.1  | 844.8  | 844.3  | 843.2  | 842.1  | 841.0  | 839.9  | 841.0  | 842.1  | 843.2  |
| 140°   | 889.6  | 889.4  | 889.3  | 888.8  | 887.7  | 886.6  | 885.5  | 884.4  | 885.5  | 886.6  | 887.7  |
| 142.5° | 930.5  | 930.0  | 929.8  | 929.3  | 928.2  | 927.1  | 926.0  | 924.9  | 926.0  | 927.1  | 928.2  |
| 145°   | 970.3  | 969.6  | 969.3  | 969.1  | 968.7  | 968.2  | 967.8  | 967.4  | 967.8  | 968.2  | 968.7  |
| 147.5° | 1008.9 | 1008.2 | 1007.9 | 1007.5 | 1006.6 | 1005.7 | 1004.8 | 1003.9 | 1004.8 | 1005.7 | 1006.6 |
| 150°   | 1045.1 | 1044.6 | 1044.4 | 1044.2 | 1043.8 | 1043.3 | 1042.9 | 1042.5 | 1042.9 | 1043.3 | 1043.8 |
| 152.5° | 1077.3 | 1077.1 | 1077.0 | 1076.7 | 1076.0 | 1075.4 | 1074.7 | 1074.1 | 1074.7 | 1075.4 | 1076.0 |
| 155°   | 1108.0 | 1107.8 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 |
| 157.5° | 1135.6 | 1135.4 | 1135.3 | 1135.4 | 1135.6 | 1135.9 | 1136.1 | 1136.3 | 1136.1 | 1135.9 | 1135.6 |
| 160°   | 1161.0 | 1161.0 | 1161.0 | 1161.2 | 1161.7 | 1162.1 | 1162.6 | 1163.0 | 1162.6 | 1162.1 | 1161.7 |
| 162.5° | 1184.1 | 1183.9 | 1183.8 | 1184.1 | 1184.8 | 1185.4 | 1186.1 | 1186.7 | 1186.1 | 1185.4 | 1184.8 |
| 165°   | 1203.5 | 1203.5 | 1203.5 | 1203.8 | 1204.5 | 1205.2 | 1205.8 | 1206.5 | 1205.8 | 1205.2 | 1204.5 |
| 167.5° | 1219.6 | 1219.4 | 1219.3 | 1219.7 | 1220.6 | 1221.5 | 1222.4 | 1223.3 | 1222.4 | 1221.5 | 1220.6 |
| 170°   | 1233.2 | 1233.2 | 1233.2 | 1233.6 | 1234.5 | 1235.4 | 1236.2 | 1237.1 | 1236.2 | 1235.4 | 1234.5 |
| 172.5° | 1244.0 | 1244.0 | 1244.0 | 1244.4 | 1245.3 | 1246.2 | 1247.1 | 1248.0 | 1247.1 | 1246.2 | 1245.3 |
| 175°   | 1251.0 | 1251.0 | 1251.0 | 1251.4 | 1252.3 | 1253.2 | 1254.0 | 1254.9 | 1254.0 | 1253.2 | 1252.3 |
| 177.5° | 1254.9 | 1254.9 | 1254.9 | 1255.3 | 1256.2 | 1257.1 | 1258.0 | 1258.9 | 1258.0 | 1257.1 | 1256.2 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 509.2 | 509.2  | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 |
| 2.5°   | 502.7 | 500.5  | 499.6 | 497.5 | 492.2 | 488.7 | 484.8 | 482.2 | 482.6 | 480.5 | 481.8 |
| 5°     | 487.0 | 486.6  | 483.5 | 479.1 | 471.7 | 467.8 | 460.8 | 457.3 | 455.6 | 456.0 | 453.4 |
| 7.5°   | 473.9 | 470.0  | 467.8 | 460.8 | 453.9 | 445.6 | 439.9 | 436.9 | 434.2 | 431.6 | 429.9 |
| 10°    | 459.1 | 455.6  | 452.1 | 444.7 | 435.1 | 427.3 | 419.4 | 416.4 | 412.4 | 410.7 | 409.4 |
| 12.5°  | 443.4 | 441.2  | 436.9 | 428.1 | 417.2 | 409.8 | 400.7 | 398.9 | 393.7 | 390.2 | 389.3 |
| 15°    | 429.0 | 427.7  | 419.8 | 409.8 | 398.9 | 391.5 | 383.7 | 378.4 | 369.7 | 371.5 | 368.4 |
| 17.5°  | 413.7 | 408.1  | 403.3 | 389.8 | 384.5 | 373.2 | 364.0 | 361.4 | 355.3 | 351.4 | 347.5 |
| 20°    | 396.7 | 393.3  | 387.2 | 378.4 | 365.8 | 352.7 | 345.7 | 341.4 | 337.9 | 331.8 | 330.0 |
| 22.5°  | 380.6 | 376.3  | 371.0 | 359.7 | 348.8 | 337.9 | 328.3 | 324.4 | 320.0 | 315.7 | 313.0 |
| 25°    | 368.0 | 361.4  | 355.8 | 341.8 | 330.9 | 321.8 | 315.7 | 309.1 | 303.0 | 300.4 | 299.5 |
| 27.5°  | 348.3 | 344.4  | 338.8 | 325.7 | 315.7 | 305.6 | 300.0 | 295.6 | 289.1 | 286.0 | 283.4 |
| 30°    | 335.7 | 327.9  | 321.3 | 310.9 | 300.8 | 289.9 | 284.7 | 279.5 | 275.5 | 271.6 | 268.6 |
| 32.5°  | 318.7 | 312.6  | 307.4 | 296.9 | 286.9 | 276.8 | 271.2 | 263.3 | 261.2 | 258.1 | 254.6 |
| 35°    | 302.1 | 298.2  | 292.5 | 281.2 | 270.3 | 263.3 | 257.2 | 249.8 | 247.2 | 245.0 | 242.0 |
| 37.5°  | 286.4 | 280.8  | 276.8 | 265.9 | 256.4 | 248.1 | 243.3 | 237.2 | 235.4 | 232.8 | 230.6 |
| 40°    | 272.9 | 267.3  | 263.3 | 252.4 | 242.4 | 233.7 | 230.6 | 224.5 | 221.9 | 218.9 | 217.6 |
| 42.5°  | 257.7 | 252.9  | 247.6 | 239.8 | 229.3 | 220.6 | 214.5 | 211.0 | 207.5 | 206.2 | 203.6 |
| 45°    | 241.5 | 237.2  | 233.2 | 224.5 | 213.6 | 207.5 | 202.3 | 197.5 | 194.9 | 192.7 | 191.0 |
| 47.5°  | 227.6 | 223.7  | 218.4 | 208.8 | 200.1 | 194.4 | 189.2 | 184.4 | 181.8 | 179.2 | 177.0 |
| 50°    | 211.5 | 209.3  | 203.6 | 194.4 | 186.2 | 179.6 | 174.8 | 170.5 | 168.7 | 165.7 | 162.2 |
| 52.5°  | 197.1 | 193.1  | 188.3 | 180.9 | 173.5 | 165.7 | 159.1 | 156.5 | 153.5 | 151.7 | 148.7 |
| 55°    | 180.1 | 177.4  | 172.2 | 165.7 | 157.8 | 151.3 | 146.5 | 143.0 | 139.1 | 137.3 | 133.4 |
| 57.5°  | 165.7 | 160.9  | 158.3 | 150.0 | 142.6 | 136.0 | 132.5 | 129.1 | 124.7 | 122.1 | 120.3 |
| 60°    | 150.0 | 145.6  | 141.7 | 134.7 | 129.5 | 122.5 | 117.3 | 114.2 | 111.2 | 107.7 | 105.9 |
| 62.5°  | 134.7 | 131.2  | 126.4 | 120.8 | 114.2 | 108.6 | 104.6 | 100.3 | 98.5  | 95.0  | 93.7  |
| 65°    | 118.2 | 115.5  | 111.6 | 105.1 | 99.8  | 95.0  | 91.1  | 87.6  | 85.9  | 84.6  | 83.7  |
| 67.5°  | 103.3 | 99.8   | 97.2  | 91.6  | 85.9  | 82.0  | 79.8  | 77.6  | 75.4  | 74.1  | 72.8  |
| 70°    | 88.1  | 85.5   | 82.8  | 77.6  | 73.7  | 70.2  | 68.4  | 66.7  | 65.4  | 64.1  | 62.8  |
| 72.5°  | 72.4  | 71.1   | 68.4  | 65.0  | 61.9  | 59.3  | 58.0  | 55.8  | 54.5  | 52.3  | 51.4  |
| 75°    | 59.7  | 57.5   | 56.2  | 53.2  | 50.6  | 48.4  | 46.6  | 44.0  | 42.3  | 41.4  | 41.0  |
| 77.5°  | 47.1  | 46.2   | 44.5  | 41.9  | 40.5  | 38.4  | 35.8  | 34.9  | 34.0  | 34.0  | 33.6  |
| 80°    | 35.3  | 34.0   | 32.7  | 30.5  | 29.2  | 27.5  | 27.5  | 27.5  | 27.0  | 27.5  | 27.0  |
| 82.5°  | 24.0  | 23.1   | 22.2  | 20.9  | 20.5  | 20.5  | 20.9  | 20.9  | 20.9  | 20.9  | 20.9  |
| 85°    | 14.0  | 14.0   | 14.0  | 14.4  | 14.0  | 14.0  | 14.4  | 14.8  | 14.4  | 14.4  | 14.0  |
| 87.5°  | 6.5   | 6.5    | 7.0   | 7.0   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.8   |
| 90°    | 9.8   | 10.9   | 12.3  | 15.2  | 18.0  | 20.9  | 23.7  | 24.6  | 25.5  | 26.4  | 27.3  |
| 92.5°  | 34.9  | 35.6   | 36.3  | 37.6  | 38.9  | 40.2  | 41.5  | 42.2  | 42.8  | 43.5  | 44.2  |
| 95°    | 64.4  | 65.2   | 66.1  | 67.8  | 69.6  | 71.3  | 73.1  | 74.0  | 74.9  | 75.8  | 76.7  |
| 97.5°  | 100.2 | 100.8  | 101.5 | 102.8 | 104.1 | 105.4 | 106.7 | 107.8 | 108.9 | 110.0 | 111.1 |
| 100°   | 139.6 | 140.3  | 140.9 | 142.0 | 143.1 | 144.2 | 145.3 | 145.9 | 146.6 | 147.2 | 147.9 |
| 102.5° | 181.5 | 181.8  | 182.6 | 184.1 | 185.6 | 187.2 | 188.7 | 189.4 | 190.0 | 190.7 | 191.4 |
| 105°   | 224.1 | 224.3  | 225.3 | 227.3 | 229.2 | 231.2 | 233.2 | 233.2 | 233.2 | 233.2 | 233.2 |
| 107.5° | 274.6 | 274.7  | 275.1 | 276.0 | 276.9 | 277.7 | 278.6 | 279.3 | 279.9 | 280.6 | 281.3 |
| 110°   | 322.9 | 323.1  | 323.3 | 323.8 | 324.2 | 324.7 | 325.1 | 326.0 | 326.8 | 327.7 | 328.6 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 371.4  | 371.5  | 371.5  | 371.5  | 371.5  | 371.5  | 371.5  | 372.6  | 373.7  | 374.8  | 375.9  |
| 115°   | 422.6  | 422.9  | 422.7  | 422.2  | 421.8  | 421.3  | 420.9  | 421.1  | 421.3  | 421.6  | 421.8  |
| 117.5° | 471.2  | 471.3  | 471.1  | 470.7  | 470.2  | 469.8  | 469.4  | 469.4  | 469.4  | 469.4  | 469.4  |
| 120°   | 522.0  | 522.7  | 522.2  | 521.1  | 520.0  | 518.9  | 517.8  | 517.6  | 517.4  | 517.1  | 516.9  |
| 122.5° | 568.8  | 569.2  | 569.0  | 568.5  | 568.1  | 567.6  | 567.2  | 566.5  | 565.9  | 565.2  | 564.5  |
| 125°   | 617.3  | 617.6  | 617.4  | 616.9  | 616.5  | 616.0  | 615.6  | 614.7  | 613.8  | 612.9  | 612.0  |
| 127.5° | 665.3  | 666.0  | 665.8  | 665.3  | 664.9  | 664.4  | 664.0  | 662.7  | 661.4  | 660.1  | 658.8  |
| 130°   | 712.5  | 713.4  | 713.1  | 712.4  | 711.8  | 711.1  | 710.5  | 709.6  | 708.7  | 707.8  | 706.9  |
| 132.5° | 758.0  | 758.9  | 758.7  | 758.2  | 757.8  | 757.3  | 756.9  | 755.8  | 754.7  | 753.6  | 752.5  |
| 135°   | 802.6  | 803.3  | 803.2  | 803.0  | 802.8  | 802.6  | 802.4  | 801.5  | 800.6  | 799.7  | 798.8  |
| 137.5° | 844.3  | 844.8  | 845.1  | 845.8  | 846.5  | 847.1  | 847.8  | 846.7  | 845.6  | 844.5  | 843.4  |
| 140°   | 888.8  | 889.3  | 889.4  | 889.6  | 889.9  | 890.1  | 890.3  | 890.1  | 889.9  | 889.6  | 889.4  |
| 142.5° | 929.3  | 929.8  | 930.0  | 930.5  | 930.9  | 931.4  | 931.8  | 931.6  | 931.4  | 931.1  | 930.9  |
| 145°   | 969.1  | 969.3  | 969.6  | 970.3  | 971.0  | 971.6  | 972.3  | 972.1  | 971.9  | 971.6  | 971.4  |
| 147.5° | 1007.5 | 1007.9 | 1008.2 | 1008.9 | 1009.5 | 1010.2 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 |
| 150°   | 1044.2 | 1044.4 | 1044.6 | 1045.1 | 1045.5 | 1046.0 | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.4 |
| 152.5° | 1076.7 | 1077.0 | 1077.1 | 1077.3 | 1077.6 | 1077.8 | 1078.0 | 1078.4 | 1078.9 | 1079.3 | 1079.8 |
| 155°   | 1107.7 | 1107.7 | 1107.8 | 1108.0 | 1108.3 | 1108.5 | 1108.7 | 1109.6 | 1110.4 | 1111.3 | 1112.2 |
| 157.5° | 1135.4 | 1135.3 | 1135.4 | 1135.6 | 1135.9 | 1136.1 | 1136.3 | 1137.2 | 1138.1 | 1139.0 | 1139.9 |
| 160°   | 1161.2 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1162.1 | 1163.2 | 1164.3 | 1165.4 |
| 162.5° | 1184.1 | 1183.8 | 1183.9 | 1184.1 | 1184.4 | 1184.6 | 1184.8 | 1185.9 | 1187.0 | 1188.1 | 1189.2 |
| 165°   | 1203.8 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1204.8 | 1206.2 | 1207.5 | 1208.8 |
| 167.5° | 1219.7 | 1219.3 | 1219.4 | 1219.6 | 1219.9 | 1220.1 | 1220.3 | 1221.6 | 1223.0 | 1224.3 | 1225.6 |
| 170°   | 1233.6 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1234.7 | 1236.3 | 1237.8 | 1239.3 |
| 172.5° | 1244.4 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1245.3 | 1246.7 | 1248.0 | 1249.3 |
| 175°   | 1251.4 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1252.3 | 1253.6 | 1254.9 | 1256.2 |
| 177.5° | 1255.3 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1256.2 | 1257.5 | 1258.8 | 1260.1 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 509.2  | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2  |
| 2.5°   | 481.3  | 481.8 | 480.5 | 477.8 | 477.4 | 478.3 | 480.9 | 480.0 | 477.8 | 481.8 | 478.3  |
| 5°     | 454.7  | 452.5 | 451.7 | 452.5 | 449.9 | 448.6 | 451.2 | 449.9 | 451.2 | 451.7 | 453.0  |
| 7.5°   | 429.0  | 429.4 | 426.8 | 427.3 | 423.8 | 424.6 | 424.6 | 424.6 | 426.0 | 426.8 | 428.6  |
| 10°    | 406.8  | 407.6 | 404.6 | 405.0 | 402.4 | 400.7 | 402.0 | 404.6 | 404.6 | 404.6 | 405.5  |
| 12.5°  | 388.9  | 385.0 | 382.8 | 382.4 | 379.3 | 378.4 | 381.0 | 381.9 | 384.1 | 384.1 | 385.4  |
| 15°    | 366.7  | 365.8 | 364.0 | 364.0 | 356.6 | 358.4 | 359.2 | 362.3 | 366.7 | 363.2 | 364.0  |
| 17.5°  | 346.6  | 344.4 | 342.2 | 341.4 | 340.5 | 337.9 | 341.4 | 340.9 | 343.6 | 344.0 | 345.3  |
| 20°    | 328.7  | 327.0 | 322.6 | 323.1 | 323.9 | 320.0 | 322.2 | 322.2 | 324.8 | 327.4 | 330.5  |
| 22.5°  | 311.3  | 309.5 | 307.4 | 308.2 | 305.6 | 304.8 | 304.8 | 306.9 | 310.0 | 312.2 | 311.7  |
| 25°    | 297.8  | 294.7 | 293.4 | 292.1 | 290.8 | 291.7 | 290.4 | 292.5 | 294.7 | 296.0 | 294.7  |
| 27.5°  | 282.5  | 281.2 | 278.6 | 277.3 | 275.1 | 276.0 | 276.8 | 278.6 | 279.9 | 279.9 | 281.2  |
| 30°    | 267.7  | 265.9 | 265.1 | 263.8 | 263.8 | 262.0 | 262.5 | 264.2 | 265.5 | 266.8 | 268.6  |
| 32.5°  | 253.3  | 252.0 | 250.7 | 250.7 | 249.8 | 249.4 | 248.9 | 251.6 | 251.6 | 254.2 | 254.2  |
| 35°    | 241.5  | 239.4 | 239.4 | 237.2 | 238.0 | 237.6 | 236.7 | 238.5 | 238.9 | 240.7 | 240.2  |
| 37.5°  | 228.5  | 228.5 | 227.6 | 225.4 | 223.7 | 224.1 | 226.3 | 226.3 | 227.6 | 227.1 | 228.5  |
| 40°    | 215.4  | 214.5 | 214.5 | 213.2 | 212.8 | 212.3 | 212.8 | 213.2 | 215.4 | 214.9 | 215.4  |
| 42.5°  | 202.3  | 202.7 | 200.6 | 200.6 | 200.6 | 199.2 | 199.7 | 200.1 | 201.0 | 201.9 | 203.2  |
| 45°    | 189.7  | 188.8 | 188.3 | 187.5 | 186.6 | 187.0 | 186.6 | 188.3 | 187.9 | 188.8 | 190.1  |
| 47.5°  | 176.1  | 174.8 | 174.4 | 172.6 | 172.6 | 173.5 | 173.1 | 174.4 | 174.8 | 176.1 | 175.3  |
| 50°    | 163.1  | 161.3 | 160.0 | 160.4 | 157.8 | 158.7 | 158.7 | 160.0 | 161.3 | 161.7 | 162.6  |
| 52.5°  | 147.8  | 147.4 | 146.9 | 144.7 | 144.3 | 143.9 | 144.3 | 144.7 | 146.5 | 147.8 | 148.2  |
| 55°    | 133.0  | 132.5 | 129.9 | 129.1 | 127.7 | 127.7 | 128.6 | 129.1 | 132.1 | 132.5 | 134.3  |
| 57.5°  | 119.5  | 118.2 | 115.1 | 114.7 | 114.7 | 114.7 | 113.4 | 115.1 | 116.0 | 118.2 | 118.2  |
| 60°    | 104.6  | 104.6 | 102.0 | 102.0 | 102.5 | 102.0 | 102.0 | 102.5 | 102.5 | 104.2 | 105.1  |
| 62.5°  | 92.9   | 92.4  | 92.4  | 91.6  | 91.1  | 91.6  | 91.1  | 91.1  | 91.6  | 92.9  | 94.2   |
| 65°    | 82.4   | 82.0  | 81.5  | 81.1  | 80.2  | 80.2  | 80.7  | 81.5  | 81.5  | 82.4  | 82.8   |
| 67.5°  | 72.4   | 72.4  | 71.5  | 71.5  | 71.1  | 70.6  | 71.1  | 70.6  | 72.4  | 72.4  | 72.8   |
| 70°    | 62.3   | 61.9  | 60.6  | 60.2  | 58.9  | 59.3  | 59.3  | 60.6  | 61.0  | 61.9  | 62.8   |
| 72.5°  | 50.1   | 50.1  | 49.3  | 48.4  | 48.8  | 48.0  | 48.0  | 48.4  | 48.4  | 49.7  | 50.1   |
| 75°    | 41.4   | 40.5  | 40.1  | 40.5  | 40.1  | 41.0  | 40.1  | 40.1  | 41.0  | 41.0  | 41.0   |
| 77.5°  | 34.0   | 34.0  | 33.6  | 33.6  | 34.0  | 33.6  | 34.0  | 34.0  | 34.0  | 33.6  | 34.0   |
| 80°    | 27.9   | 27.5  | 27.5  | 27.5  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0   |
| 82.5°  | 20.9   | 20.9  | 20.5  | 20.9  | 20.9  | 20.5  | 20.9  | 20.5  | 20.5  | 20.9  | 20.9   |
| 85°    | 14.0   | 14.8  | 14.0  | 14.0  | 14.4  | 14.4  | 14.8  | 14.4  | 14.8  | 14.0  | 14.4   |
| 87.5°  | 7.4    | 7.8   | 7.8   | 7.4   | 7.4   | 7.8   | 7.8   | 7.8   | 8.3   | 7.4   | 7.8    |
| 90°    | 27.7   | 27.9  | 28.3  | 28.8  | 29.2  | 29.6  | 29.2  | 28.8  | 28.3  | 27.9  | 27.7   |
| 92.5°  | 44.5   | 44.3  | 43.8  | 43.4  | 42.9  | 42.5  | 42.9  | 43.4  | 43.8  | 44.3  | 44.5   |
| 95°    | 77.1   | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1  | 77.1   |
| 97.5°  | 111.7  | 111.6 | 111.4 | 111.1 | 110.9 | 110.7 | 110.9 | 111.1 | 111.4 | 111.6 | 111.7  |
| 100°   | 148.2  | 148.4 | 148.9 | 149.3 | 149.8 | 150.2 | 149.8 | 149.3 | 148.9 | 148.4 | 148.2  |
| 102.5° | 191.7  | 191.6 | 191.4 | 191.1 | 190.9 | 190.7 | 190.9 | 191.1 | 191.4 | 191.6 | 191.7  |
| 105°   | 233.2  | 233.4 | 233.9 | 234.3 | 234.8 | 235.2 | 234.8 | 234.3 | 233.9 | 233.4 | 233.2  |
| 107.5° | 281.6  | 281.5 | 281.3 | 281.0 | 280.8 | 280.6 | 280.8 | 281.0 | 281.3 | 281.5 | 281.6  |
| 110°   | 329.0  | 328.8 | 328.4 | 327.9 | 327.5 | 327.1 | 327.5 | 327.9 | 328.4 | 328.8 | 329.0  |



TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  | 376.5  |
| 115°   | 421.9  | 421.8  | 421.6  | 421.3  | 421.1  | 420.9  | 421.1  | 421.3  | 421.6  | 421.8  | 421.9  |
| 117.5° | 469.4  | 469.1  | 468.4  | 467.7  | 467.1  | 466.4  | 467.1  | 467.7  | 468.4  | 469.1  | 469.4  |
| 120°   | 516.8  | 516.6  | 516.1  | 515.7  | 515.2  | 514.8  | 515.2  | 515.7  | 516.1  | 516.6  | 516.8  |
| 122.5° | 564.2  | 563.9  | 563.2  | 562.6  | 561.9  | 561.3  | 561.9  | 562.6  | 563.2  | 563.9  | 564.2  |
| 125°   | 611.6  | 611.2  | 610.3  | 609.4  | 608.6  | 607.7  | 608.6  | 609.4  | 610.3  | 611.2  | 611.6  |
| 127.5° | 658.1  | 657.7  | 656.8  | 655.9  | 655.0  | 654.1  | 655.0  | 655.9  | 656.8  | 657.7  | 658.1  |
| 130°   | 706.5  | 705.7  | 704.2  | 702.7  | 701.1  | 699.6  | 701.1  | 702.7  | 704.2  | 705.7  | 706.5  |
| 132.5° | 752.0  | 751.4  | 750.3  | 749.2  | 748.1  | 747.0  | 748.1  | 749.2  | 750.3  | 751.4  | 752.0  |
| 135°   | 798.4  | 798.2  | 797.7  | 797.3  | 796.8  | 796.4  | 796.8  | 797.3  | 797.7  | 798.2  | 798.4  |
| 137.5° | 842.9  | 842.6  | 841.9  | 841.2  | 840.6  | 839.9  | 840.6  | 841.2  | 841.9  | 842.6  | 842.9  |
| 140°   | 889.3  | 888.5  | 887.0  | 885.5  | 883.9  | 882.4  | 883.9  | 885.5  | 887.0  | 888.5  | 889.3  |
| 142.5° | 930.8  | 930.3  | 929.2  | 928.1  | 927.0  | 925.9  | 927.0  | 928.1  | 929.2  | 930.3  | 930.8  |
| 145°   | 971.3  | 970.9  | 970.0  | 969.1  | 968.3  | 967.4  | 968.3  | 969.1  | 970.0  | 970.9  | 971.3  |
| 147.5° | 1010.8 | 1010.1 | 1008.8 | 1007.5 | 1006.2 | 1004.9 | 1006.2 | 1007.5 | 1008.8 | 1010.1 | 1010.8 |
| 150°   | 1046.4 | 1045.7 | 1044.4 | 1043.1 | 1041.8 | 1040.5 | 1041.8 | 1043.1 | 1044.4 | 1045.7 | 1046.4 |
| 152.5° | 1080.0 | 1079.5 | 1078.4 | 1077.3 | 1076.2 | 1075.1 | 1076.2 | 1077.3 | 1078.4 | 1079.5 | 1080.0 |
| 155°   | 1112.6 | 1111.8 | 1110.3 | 1108.8 | 1107.2 | 1105.7 | 1107.2 | 1108.8 | 1110.3 | 1111.8 | 1112.6 |
| 157.5° | 1140.3 | 1139.6 | 1138.3 | 1137.0 | 1135.7 | 1134.4 | 1135.7 | 1137.0 | 1138.3 | 1139.6 | 1140.3 |
| 160°   | 1166.0 | 1165.6 | 1164.7 | 1163.8 | 1162.9 | 1162.0 | 1162.9 | 1163.8 | 1164.7 | 1165.6 | 1166.0 |
| 162.5° | 1189.7 | 1188.9 | 1187.4 | 1185.9 | 1184.3 | 1182.8 | 1184.3 | 1185.9 | 1187.4 | 1188.9 | 1189.7 |
| 165°   | 1209.5 | 1208.7 | 1207.2 | 1205.6 | 1204.1 | 1202.5 | 1204.1 | 1205.6 | 1207.2 | 1208.7 | 1209.5 |
| 167.5° | 1226.3 | 1225.6 | 1224.3 | 1223.0 | 1221.6 | 1220.3 | 1221.6 | 1223.0 | 1224.3 | 1225.6 | 1226.3 |
| 170°   | 1240.1 | 1239.3 | 1237.8 | 1236.3 | 1234.7 | 1233.2 | 1234.7 | 1236.3 | 1237.8 | 1239.3 | 1240.1 |
| 172.5° | 1250.0 | 1249.2 | 1247.7 | 1246.2 | 1244.6 | 1243.1 | 1244.6 | 1246.2 | 1247.7 | 1249.2 | 1250.0 |
| 175°   | 1256.9 | 1256.1 | 1254.6 | 1253.1 | 1251.5 | 1250.0 | 1251.5 | 1253.1 | 1254.6 | 1256.1 | 1256.9 |
| 177.5° | 1260.8 | 1260.0 | 1258.5 | 1257.0 | 1255.4 | 1253.9 | 1255.4 | 1257.0 | 1258.5 | 1260.0 | 1260.8 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2 | 509.2  | 509.2 |
| 2.5°   | 481.8 | 483.5 | 481.8 | 478.3 | 481.8 | 483.9 | 486.1 | 489.6 | 491.4 | 491.4  | 494.0 |
| 5°     | 454.3 | 457.8 | 456.5 | 455.6 | 459.1 | 461.3 | 464.8 | 469.1 | 473.9 | 477.0  | 480.5 |
| 7.5°   | 429.9 | 432.1 | 434.2 | 434.2 | 437.7 | 442.5 | 447.8 | 453.0 | 459.1 | 463.4  | 466.1 |
| 10°    | 408.5 | 410.3 | 411.6 | 413.3 | 418.5 | 423.8 | 430.7 | 437.3 | 442.5 | 447.3  | 451.7 |
| 12.5°  | 388.0 | 390.6 | 393.7 | 395.0 | 398.9 | 405.5 | 412.0 | 419.8 | 428.1 | 432.9  | 437.3 |
| 15°    | 368.4 | 369.7 | 373.2 | 377.1 | 380.6 | 387.6 | 395.9 | 404.2 | 411.1 | 418.5  | 422.5 |
| 17.5°  | 348.3 | 348.8 | 357.9 | 355.8 | 367.1 | 373.6 | 378.0 | 385.8 | 397.2 | 403.3  | 409.4 |
| 20°    | 328.7 | 333.1 | 337.0 | 339.2 | 345.3 | 352.7 | 365.4 | 371.5 | 380.6 | 386.3  | 391.5 |
| 22.5°  | 313.5 | 320.0 | 320.0 | 325.2 | 328.3 | 335.3 | 344.4 | 356.2 | 366.2 | 370.1  | 377.6 |
| 25°    | 300.0 | 303.0 | 308.2 | 310.0 | 315.7 | 321.8 | 327.9 | 340.5 | 351.4 | 356.6  | 361.9 |
| 27.5°  | 282.5 | 286.4 | 293.4 | 293.4 | 300.8 | 307.4 | 314.8 | 323.1 | 334.0 | 341.4  | 347.0 |
| 30°    | 269.0 | 272.9 | 276.0 | 280.8 | 283.8 | 289.9 | 303.0 | 309.1 | 318.7 | 325.2  | 332.2 |
| 32.5°  | 256.4 | 259.4 | 262.0 | 267.3 | 270.7 | 277.7 | 284.7 | 295.6 | 303.9 | 310.0  | 317.4 |
| 35°    | 242.4 | 245.5 | 248.9 | 252.9 | 258.1 | 264.6 | 271.2 | 280.3 | 288.6 | 294.3  | 300.4 |
| 37.5°  | 229.3 | 231.5 | 236.7 | 239.4 | 243.7 | 249.8 | 258.1 | 267.7 | 275.1 | 279.5  | 285.6 |
| 40°    | 216.7 | 218.4 | 222.4 | 227.1 | 230.2 | 235.0 | 243.7 | 252.0 | 261.2 | 266.4  | 271.2 |
| 42.5°  | 203.2 | 205.3 | 208.8 | 213.6 | 218.4 | 223.7 | 228.5 | 238.0 | 246.3 | 250.7  | 255.9 |
| 45°    | 191.4 | 192.7 | 195.3 | 200.1 | 204.9 | 208.8 | 216.2 | 225.0 | 232.8 | 236.3  | 242.0 |
| 47.5°  | 177.4 | 178.8 | 182.7 | 184.9 | 190.1 | 195.3 | 202.7 | 211.5 | 218.4 | 221.9  | 227.1 |
| 50°    | 163.1 | 164.4 | 167.0 | 171.8 | 175.3 | 180.9 | 187.5 | 194.9 | 203.6 | 208.4  | 211.5 |
| 52.5°  | 149.1 | 151.7 | 153.9 | 157.8 | 162.2 | 167.9 | 174.0 | 180.9 | 188.3 | 193.1  | 196.6 |
| 55°    | 135.2 | 137.3 | 139.9 | 142.1 | 147.4 | 152.6 | 159.6 | 166.1 | 172.6 | 177.0  | 180.9 |
| 57.5°  | 119.5 | 122.5 | 125.1 | 129.5 | 133.4 | 137.8 | 145.6 | 150.8 | 158.7 | 161.7  | 165.2 |
| 60°    | 105.9 | 109.0 | 111.2 | 114.7 | 118.2 | 123.8 | 129.1 | 135.6 | 142.1 | 146.1  | 150.4 |
| 62.5°  | 94.6  | 95.9  | 97.2  | 100.7 | 104.2 | 109.4 | 114.7 | 121.2 | 128.2 | 130.4  | 133.8 |
| 65°    | 83.3  | 84.6  | 86.8  | 89.8  | 92.4  | 95.5  | 101.1 | 106.4 | 112.9 | 116.4  | 117.7 |
| 67.5°  | 73.7  | 75.0  | 75.4  | 77.6  | 79.8  | 83.3  | 86.3  | 91.6  | 97.7  | 99.8   | 102.5 |
| 70°    | 62.8  | 65.0  | 65.4  | 67.1  | 68.0  | 70.2  | 73.7  | 77.6  | 82.4  | 86.3   | 88.5  |
| 72.5°  | 50.1  | 53.2  | 54.1  | 56.7  | 58.0  | 60.2  | 62.8  | 65.8  | 68.9  | 70.6   | 72.4  |
| 75°    | 41.0  | 41.9  | 42.3  | 44.5  | 46.6  | 49.7  | 51.0  | 52.8  | 55.4  | 57.5   | 59.3  |
| 77.5°  | 34.0  | 34.4  | 34.9  | 34.9  | 35.3  | 37.1  | 39.7  | 41.9  | 43.6  | 44.5   | 45.8  |
| 80°    | 27.5  | 27.0  | 27.0  | 27.5  | 27.5  | 27.5  | 28.3  | 31.4  | 32.3  | 34.4   | 34.0  |
| 82.5°  | 21.4  | 20.5  | 20.9  | 20.5  | 20.5  | 20.5  | 20.5  | 20.9  | 20.9  | 22.2   | 23.1  |
| 85°    | 14.0  | 14.4  | 14.0  | 14.0  | 13.5  | 14.0  | 13.5  | 13.5  | 13.1  | 13.1   | 12.6  |
| 87.5°  | 7.4   | 7.8   | 7.4   | 7.4   | 7.0   | 7.4   | 7.0   | 7.0   | 6.5   | 6.5    | 5.7   |
| 90°    | 27.3  | 26.4  | 25.5  | 24.6  | 23.7  | 20.9  | 18.0  | 15.2  | 12.3  | 10.9   | 9.8   |
| 92.5°  | 44.2  | 43.5  | 42.8  | 42.2  | 41.5  | 40.2  | 38.9  | 37.6  | 36.3  | 35.6   | 34.9  |
| 95°    | 76.7  | 75.8  | 74.9  | 74.0  | 73.1  | 71.3  | 69.6  | 67.8  | 66.1  | 65.2   | 64.4  |
| 97.5°  | 111.1 | 110.0 | 108.9 | 107.8 | 106.7 | 105.4 | 104.1 | 102.8 | 101.5 | 100.8  | 100.2 |
| 100°   | 147.9 | 147.2 | 146.6 | 145.9 | 145.3 | 144.2 | 143.1 | 142.0 | 140.9 | 140.3  | 139.6 |
| 102.5° | 191.4 | 190.7 | 190.0 | 189.4 | 188.7 | 187.2 | 185.6 | 184.1 | 182.6 | 181.8  | 181.5 |
| 105°   | 233.2 | 233.2 | 233.2 | 233.2 | 233.2 | 231.2 | 229.2 | 227.3 | 225.3 | 224.3  | 224.1 |
| 107.5° | 281.3 | 280.6 | 279.9 | 279.3 | 278.6 | 277.7 | 276.9 | 276.0 | 275.1 | 274.7  | 274.6 |
| 110°   | 328.6 | 327.7 | 326.8 | 326.0 | 325.1 | 324.7 | 324.2 | 323.8 | 323.3 | 323.1  | 322.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 375.9  | 374.8  | 373.7  | 372.6  | 371.5  | 371.5  | 371.5  | 371.5  | 371.5  | 371.5  | 371.4  |
| 115°   | 421.8  | 421.6  | 421.3  | 421.1  | 420.9  | 421.3  | 421.8  | 422.2  | 422.7  | 422.9  | 422.6  |
| 117.5° | 469.4  | 469.4  | 469.4  | 469.4  | 469.4  | 469.8  | 470.2  | 470.7  | 471.1  | 471.3  | 471.2  |
| 120°   | 516.9  | 517.1  | 517.4  | 517.6  | 517.8  | 518.9  | 520.0  | 521.1  | 522.2  | 522.7  | 522.0  |
| 122.5° | 564.5  | 565.2  | 565.9  | 566.5  | 567.2  | 567.6  | 568.1  | 568.5  | 569.0  | 569.2  | 568.8  |
| 125°   | 612.0  | 612.9  | 613.8  | 614.7  | 615.6  | 616.0  | 616.5  | 616.9  | 617.4  | 617.6  | 617.3  |
| 127.5° | 658.8  | 660.1  | 661.4  | 662.7  | 664.0  | 664.4  | 664.9  | 665.3  | 665.8  | 666.0  | 665.3  |
| 130°   | 706.9  | 707.8  | 708.7  | 709.6  | 710.5  | 711.1  | 711.8  | 712.4  | 713.1  | 713.4  | 712.5  |
| 132.5° | 752.5  | 753.6  | 754.7  | 755.8  | 756.9  | 757.3  | 757.8  | 758.2  | 758.7  | 758.9  | 758.0  |
| 135°   | 798.8  | 799.7  | 800.6  | 801.5  | 802.4  | 802.6  | 802.8  | 803.0  | 803.2  | 803.3  | 802.6  |
| 137.5° | 843.4  | 844.5  | 845.6  | 846.7  | 847.8  | 847.1  | 846.5  | 845.8  | 845.1  | 844.8  | 844.3  |
| 140°   | 889.4  | 889.6  | 889.9  | 890.1  | 890.3  | 890.1  | 889.9  | 889.6  | 889.4  | 889.3  | 888.8  |
| 142.5° | 930.9  | 931.1  | 931.4  | 931.6  | 931.8  | 931.4  | 930.9  | 930.5  | 930.0  | 929.8  | 929.3  |
| 145°   | 971.4  | 971.6  | 971.9  | 972.1  | 972.3  | 971.6  | 971.0  | 970.3  | 969.6  | 969.3  | 969.1  |
| 147.5° | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.2 | 1009.5 | 1008.9 | 1008.2 | 1007.9 | 1007.5 |
| 150°   | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.4 | 1046.0 | 1045.5 | 1045.1 | 1044.6 | 1044.4 | 1044.2 |
| 152.5° | 1079.8 | 1079.3 | 1078.9 | 1078.4 | 1078.0 | 1077.8 | 1077.6 | 1077.3 | 1077.1 | 1077.0 | 1076.7 |
| 155°   | 1112.2 | 1111.3 | 1110.4 | 1109.6 | 1108.7 | 1108.5 | 1108.3 | 1108.0 | 1107.8 | 1107.7 | 1107.7 |
| 157.5° | 1139.9 | 1139.0 | 1138.1 | 1137.2 | 1136.3 | 1136.1 | 1135.9 | 1135.6 | 1135.4 | 1135.3 | 1135.4 |
| 160°   | 1165.4 | 1164.3 | 1163.2 | 1162.1 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.2 |
| 162.5° | 1189.2 | 1188.1 | 1187.0 | 1185.9 | 1184.8 | 1184.6 | 1184.4 | 1184.1 | 1183.9 | 1183.8 | 1184.1 |
| 165°   | 1208.8 | 1207.5 | 1206.2 | 1204.8 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.5 | 1203.8 |
| 167.5° | 1225.6 | 1224.3 | 1223.0 | 1221.6 | 1220.3 | 1220.1 | 1219.9 | 1219.6 | 1219.4 | 1219.3 | 1219.7 |
| 170°   | 1239.3 | 1237.8 | 1236.3 | 1234.7 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.6 |
| 172.5° | 1249.3 | 1248.0 | 1246.7 | 1245.3 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.4 |
| 175°   | 1256.2 | 1254.9 | 1253.6 | 1252.3 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.0 | 1251.4 |
| 177.5° | 1260.1 | 1258.8 | 1257.5 | 1256.2 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1255.3 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 509.2 | 509.2 | 509.2 | 509.2 |
| 2.5°   | 496.1 | 499.2 | 505.3 | 510.5 |
| 5°     | 485.7 | 490.5 | 499.6 | 508.8 |
| 7.5°   | 473.0 | 480.5 | 492.2 | 504.9 |
| 10°    | 460.8 | 470.4 | 484.8 | 499.6 |
| 12.5°  | 448.6 | 458.7 | 473.9 | 493.1 |
| 15°    | 434.2 | 444.7 | 463.0 | 486.1 |
| 17.5°  | 421.6 | 435.5 | 452.1 | 475.2 |
| 20°    | 408.1 | 418.5 | 439.9 | 464.3 |
| 22.5°  | 391.1 | 408.5 | 428.6 | 454.3 |
| 25°    | 377.6 | 392.8 | 412.9 | 442.1 |
| 27.5°  | 361.0 | 378.9 | 403.3 | 429.0 |
| 30°    | 347.5 | 362.3 | 385.0 | 415.9 |
| 32.5°  | 331.8 | 349.2 | 372.8 | 403.3 |
| 35°    | 317.8 | 332.7 | 354.9 | 385.8 |
| 37.5°  | 301.3 | 317.4 | 342.2 | 369.7 |
| 40°    | 286.9 | 302.6 | 326.1 | 351.8 |
| 42.5°  | 269.4 | 286.0 | 309.5 | 331.3 |
| 45°    | 255.5 | 270.7 | 289.5 | 309.5 |
| 47.5°  | 238.5 | 254.6 | 272.9 | 286.9 |
| 50°    | 223.2 | 238.0 | 252.4 | 264.2 |
| 52.5°  | 206.7 | 220.2 | 233.2 | 242.0 |
| 55°    | 191.4 | 201.9 | 212.3 | 218.4 |
| 57.5°  | 173.5 | 183.5 | 192.3 | 195.8 |
| 60°    | 157.8 | 166.1 | 171.8 | 175.7 |
| 62.5°  | 141.3 | 147.4 | 151.7 | 153.9 |
| 65°    | 125.1 | 129.5 | 131.7 | 133.8 |
| 67.5°  | 108.6 | 112.5 | 113.8 | 116.4 |
| 70°    | 91.1  | 95.5  | 96.4  | 97.7  |
| 72.5°  | 78.0  | 78.0  | 79.8  | 81.5  |
| 75°    | 62.3  | 63.2  | 64.1  | 64.1  |
| 77.5°  | 48.8  | 48.8  | 49.7  | 50.1  |
| 80°    | 35.8  | 36.2  | 36.2  | 35.8  |
| 82.5°  | 24.4  | 25.3  | 24.4  | 24.0  |
| 85°    | 13.5  | 15.3  | 14.4  | 14.4  |
| 87.5°  | 5.7   | 5.7   | 6.5   | 5.7   |
| 90°    | 7.6   | 5.4   | 3.2   | 1.0   |
| 92.5°  | 33.6  | 32.3  | 30.9  | 29.6  |
| 95°    | 62.9  | 61.4  | 59.8  | 58.3  |
| 97.5°  | 99.1  | 98.0  | 96.9  | 95.8  |
| 100°   | 138.3 | 137.0 | 135.7 | 134.4 |
| 102.5° | 180.8 | 180.1 | 179.5 | 178.8 |
| 105°   | 223.6 | 223.2 | 222.7 | 222.3 |
| 107.5° | 274.4 | 274.1 | 273.9 | 273.7 |
| 110°   | 322.4 | 322.0 | 321.5 | 321.1 |



TEST NUMBER: P1031114

CATALOG NUMBER: S123RDIW-B340D1030UB2750-4F0-XX-W2A-A1\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 371.2  | 370.9  | 370.7  | 370.5  |
| 115°   | 421.9  | 421.3  | 420.6  | 420.0  |
| 117.5° | 471.0  | 470.7  | 470.5  | 470.3  |
| 120°   | 520.7  | 519.4  | 518.1  | 516.8  |
| 122.5° | 567.9  | 567.0  | 566.1  | 565.2  |
| 125°   | 616.6  | 615.9  | 615.3  | 614.6  |
| 127.5° | 664.0  | 662.7  | 661.4  | 660.1  |
| 130°   | 710.8  | 709.0  | 707.3  | 705.5  |
| 132.5° | 756.3  | 754.5  | 752.8  | 751.0  |
| 135°   | 801.3  | 800.0  | 798.7  | 797.4  |
| 137.5° | 843.2  | 842.1  | 841.0  | 839.9  |
| 140°   | 887.7  | 886.6  | 885.5  | 884.4  |
| 142.5° | 928.2  | 927.1  | 926.0  | 924.9  |
| 145°   | 968.7  | 968.2  | 967.8  | 967.4  |
| 147.5° | 1006.6 | 1005.7 | 1004.8 | 1003.9 |
| 150°   | 1043.8 | 1043.3 | 1042.9 | 1042.5 |
| 152.5° | 1076.0 | 1075.4 | 1074.7 | 1074.1 |
| 155°   | 1107.7 | 1107.7 | 1107.7 | 1107.7 |
| 157.5° | 1135.6 | 1135.9 | 1136.1 | 1136.3 |
| 160°   | 1161.7 | 1162.1 | 1162.6 | 1163.0 |
| 162.5° | 1184.8 | 1185.4 | 1186.1 | 1186.7 |
| 165°   | 1204.5 | 1205.2 | 1205.8 | 1206.5 |
| 167.5° | 1220.6 | 1221.5 | 1222.4 | 1223.3 |
| 170°   | 1234.5 | 1235.4 | 1236.2 | 1237.1 |
| 172.5° | 1245.3 | 1246.2 | 1247.1 | 1248.0 |
| 175°   | 1252.3 | 1253.2 | 1254.0 | 1254.9 |
| 177.5° | 1256.2 | 1257.1 | 1258.0 | 1258.9 |
| 180°   | 1257.9 | 1257.9 | 1257.9 | 1257.9 |

(END OF REPORT)