

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: P1013340

Luminaire Tested: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013340  
REPORT IS A COMBINATION OF REPORTS P999387 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K  
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

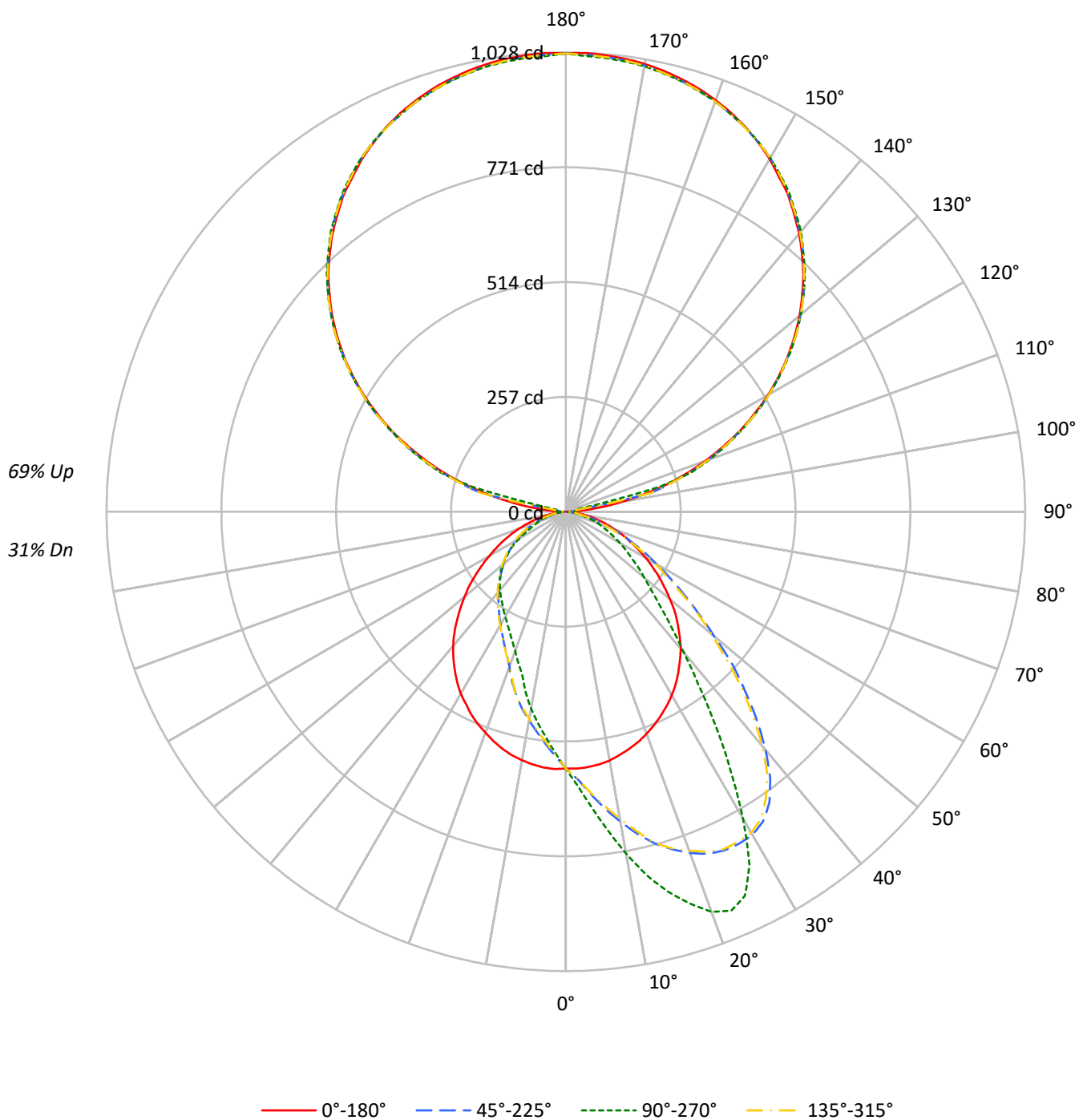
Lumens per Lamp: N/A  
Luminaire Lumens: 4627.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 34.1  
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: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013340

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 39 | 39 | 39 | 31 |
| 1   | 94  | 90  | 86  | 83  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 47 | 35 | 34 | 34 | 34 | 34 | 34 | 27 |
| 2   | 86  | 79  | 73  | 68  | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 29 | 29 | 29 | 23 |
| 3   | 78  | 69  | 62  | 57  | 70 | 63 | 57 | 52 | 50 | 46 | 43 | 39 | 36 | 33 | 28 | 26 | 25 | 25 | 25 | 25 | 20 |
| 4   | 72  | 61  | 54  | 48  | 64 | 56 | 49 | 44 | 45 | 40 | 36 | 34 | 31 | 29 | 25 | 23 | 21 | 21 | 21 | 21 | 17 |
| 5   | 66  | 55  | 47  | 41  | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 20 | 19 | 19 | 19 | 19 | 15 |
| 6   | 61  | 49  | 41  | 36  | 54 | 45 | 38 | 33 | 36 | 31 | 27 | 28 | 25 | 22 | 21 | 18 | 17 | 17 | 17 | 17 | 13 |
| 7   | 56  | 44  | 37  | 31  | 50 | 40 | 34 | 29 | 33 | 28 | 24 | 25 | 22 | 19 | 19 | 17 | 15 | 15 | 15 | 15 | 12 |
| 8   | 52  | 40  | 33  | 28  | 47 | 37 | 30 | 26 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 13 | 13 | 13 | 11 |
| 9   | 48  | 37  | 29  | 24  | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 16 | 16 | 14 | 12 | 12 | 12 | 12 | 10 |
| 10  | 45  | 33  | 26  | 22  | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 11 | 11 | 11 | 9  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4684 | 4684 | 4684 | 4684 |
| 5°  | 4684 | 5292 | 4692 | 4045 |
| 10° | 4659 | 6101 | 4655 | 3518 |
| 15° | 4603 | 6866 | 4603 | 2945 |
| 20° | 4546 | 7445 | 4522 | 2594 |
| 25° | 4474 | 7477 | 4454 | 2342 |
| 30° | 4400 | 6357 | 4365 | 2170 |
| 35° | 4293 | 4797 | 4238 | 2041 |
| 40° | 4175 | 3476 | 4092 | 1940 |
| 45° | 3978 | 2642 | 3879 | 1851 |
| 50° | 3746 | 2135 | 3644 | 1721 |
| 55° | 3495 | 1768 | 3380 | 1548 |
| 60° | 3242 | 1495 | 3097 | 1287 |
| 65° | 2925 | 1217 | 2831 | 1023 |
| 70° | 2633 | 987  | 2510 | 831  |
| 75° | 2308 | 711  | 2147 | 609  |
| 80° | 1904 | 472  | 1732 | 447  |
| 85° | 1383 | 243  | 1142 | 243  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 5864 cd/sqm

TEST NUMBER: P1013340

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.6   | 1.2       |
| 10°-20°   | 168.0  | 3.6       |
| 20°-30°   | 263.1  | 5.7       |
| 30°-40°   | 292.2  | 6.3       |
| 40°-50°   | 258.9  | 5.6       |
| 50°-60°   | 201.8  | 4.4       |
| 60°-70°   | 132.0  | 2.9       |
| 70°-80°   | 64.8   | 1.4       |
| 80°-90°   | 17.9   | 0.4       |
| 90°-100°  | 34.0   | 0.7       |
| 100°-110° | 224.1  | 4.8       |
| 110°-120° | 428.0  | 9.3       |
| 120°-130° | 543.4  | 11.7      |
| 130°-140° | 581.3  | 12.6      |
| 140°-150° | 543.6  | 11.7      |
| 150°-160° | 438.3  | 9.5       |
| 160°-170° | 282.7  | 6.1       |
| 170°-180° | 97.4   | 2.1       |
| 0°-30°    | 486.7  | 10.5      |
| 0°-40°    | 778.8  | 16.8      |
| 0°-60°    | 1239.5 | 26.8      |
| 0°-90°    | 1454.1 | 31.4      |
| 90°-120°  | 686.2  | 14.8      |
| 90°-150°  | 2354.4 | 50.9      |
| 90°-180°  | 3173.0 | 68.6      |
| 0°-180°   | 4627.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 574  | 574  | 574  | 574  | 574  |      |
| 5°   | 574  | 664  | 574  | 507  | 574  | 54   |
| 15°  | 549  | 879  | 549  | 377  | 549  | 155  |
| 25°  | 503  | 948  | 501  | 297  | 503  | 232  |
| 35°  | 439  | 584  | 433  | 248  | 439  | 274  |
| 45°  | 354  | 298  | 345  | 209  | 354  | 273  |
| 55°  | 255  | 178  | 246  | 156  | 255  | 228  |
| 65°  | 160  | 104  | 155  | 88   | 160  | 159  |
| 75°  | 80   | 48   | 74   | 41   | 80   | 85   |
| 85°  | 19   | 12   | 16   | 12   | 19   | 21   |
| 90°  | 2    | 23   | 2    | 23   | 2    | 3    |
| 95°  | 42   | 22   | 42   | 22   | 42   | 52   |
| 105° | 231  | 219  | 231  | 219  | 231  | 242  |
| 115° | 431  | 434  | 431  | 434  | 431  | 424  |
| 125° | 606  | 610  | 606  | 610  | 606  | 541  |
| 135° | 752  | 757  | 752  | 757  | 752  | 579  |
| 145° | 867  | 871  | 867  | 871  | 867  | 542  |
| 155° | 950  | 950  | 950  | 950  | 950  | 438  |
| 165° | 1002 | 998  | 1002 | 998  | 1002 | 283  |
| 175° | 1025 | 1019 | 1025 | 1019 | 1025 | 98   |
| 180° | 1025 | 1025 | 1025 | 1025 | 1025 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 |
| 2.5°   | 575.3 | 580.4 | 583.2 | 585.5 | 590.1 | 592.0 | 595.7 | 596.6 | 600.3 | 599.9 | 598.5 |
| 5°     | 573.5 | 582.3 | 588.7 | 595.7 | 604.0 | 608.6 | 613.7 | 621.1 | 624.8 | 629.9 | 633.2 |
| 7.5°   | 570.2 | 582.3 | 592.9 | 603.6 | 617.0 | 624.4 | 630.9 | 642.4 | 652.2 | 660.5 | 669.7 |
| 10°    | 565.1 | 580.4 | 596.1 | 610.5 | 629.0 | 637.8 | 647.5 | 664.6 | 678.1 | 689.6 | 704.5 |
| 12.5°  | 557.3 | 578.6 | 596.1 | 615.6 | 639.2 | 651.2 | 664.2 | 684.6 | 700.3 | 719.3 | 737.8 |
| 15°    | 548.9 | 572.5 | 595.7 | 621.1 | 648.0 | 661.9 | 674.8 | 702.1 | 726.2 | 748.0 | 768.3 |
| 17.5°  | 539.7 | 565.6 | 591.1 | 619.3 | 651.7 | 668.8 | 684.1 | 717.0 | 743.3 | 771.6 | 791.9 |
| 20°    | 528.6 | 556.8 | 586.0 | 617.4 | 654.0 | 673.0 | 690.1 | 727.6 | 756.8 | 787.3 | 812.8 |
| 22.5°  | 516.5 | 547.1 | 579.0 | 613.3 | 651.2 | 672.1 | 692.0 | 732.2 | 766.0 | 794.2 | 828.5 |
| 25°    | 503.1 | 535.5 | 568.4 | 604.5 | 647.1 | 669.7 | 690.1 | 729.9 | 766.0 | 803.0 | 836.4 |
| 27.5°  | 489.2 | 522.6 | 556.8 | 594.8 | 638.3 | 660.5 | 683.6 | 722.0 | 764.2 | 804.4 | 838.2 |
| 30°    | 474.0 | 506.4 | 542.5 | 578.6 | 624.8 | 647.1 | 670.7 | 712.3 | 758.1 | 798.4 | 835.0 |
| 32.5°  | 457.3 | 490.6 | 524.9 | 562.4 | 607.7 | 631.8 | 653.5 | 700.8 | 747.5 | 787.3 | 821.6 |
| 35°    | 438.8 | 470.3 | 502.7 | 541.1 | 586.0 | 607.7 | 633.6 | 682.7 | 729.9 | 772.0 | 794.2 |
| 37.5°  | 418.9 | 449.0 | 479.0 | 517.0 | 560.0 | 586.4 | 611.9 | 661.4 | 711.4 | 739.6 | 751.2 |
| 40°    | 400.4 | 426.7 | 453.1 | 489.7 | 533.2 | 560.5 | 586.4 | 637.8 | 681.8 | 703.5 | 694.7 |
| 42.5°  | 376.8 | 404.1 | 427.7 | 461.5 | 505.4 | 530.9 | 557.3 | 610.5 | 646.1 | 654.9 | 633.2 |
| 45°    | 353.6 | 376.3 | 399.0 | 431.8 | 478.1 | 499.9 | 528.1 | 577.6 | 607.3 | 599.4 | 567.5 |
| 47.5°  | 330.9 | 349.4 | 370.7 | 402.7 | 444.3 | 470.3 | 496.6 | 539.7 | 560.5 | 549.4 | 505.0 |
| 50°    | 304.1 | 322.6 | 344.8 | 372.6 | 412.9 | 437.9 | 458.7 | 498.5 | 514.2 | 486.9 | 433.2 |
| 52.5°  | 278.6 | 294.8 | 313.8 | 339.7 | 378.1 | 400.8 | 423.5 | 457.8 | 462.8 | 431.4 | 374.9 |
| 55°    | 254.6 | 267.5 | 287.4 | 308.3 | 343.4 | 367.5 | 383.2 | 412.4 | 411.0 | 371.7 | 323.1 |
| 57.5°  | 229.6 | 241.6 | 255.0 | 276.8 | 310.1 | 328.2 | 345.3 | 370.7 | 357.3 | 324.0 | 275.9 |
| 60°    | 207.4 | 214.3 | 227.7 | 248.5 | 276.8 | 292.5 | 305.9 | 319.8 | 308.3 | 272.2 | 235.1 |
| 62.5°  | 182.8 | 190.7 | 200.4 | 217.1 | 242.1 | 256.9 | 266.6 | 272.6 | 260.6 | 232.8 | 199.0 |
| 65°    | 159.7 | 166.6 | 176.8 | 191.6 | 210.6 | 221.7 | 226.8 | 231.0 | 224.5 | 193.0 | 166.2 |
| 67.5°  | 138.9 | 143.5 | 152.7 | 162.5 | 182.8 | 185.6 | 192.5 | 194.4 | 181.4 | 157.4 | 136.1 |
| 70°    | 118.0 | 122.7 | 126.8 | 138.4 | 147.6 | 152.7 | 154.1 | 154.1 | 141.2 | 125.4 | 107.8 |
| 72.5°  | 98.6  | 101.4 | 105.5 | 113.4 | 118.5 | 122.2 | 124.0 | 121.7 | 109.7 | 96.7  | 83.8  |
| 75°    | 80.1  | 81.5  | 85.2  | 90.3  | 94.4  | 93.0  | 92.6  | 89.8  | 81.0  | 71.7  | 64.3  |
| 77.5°  | 61.6  | 62.5  | 66.7  | 68.0  | 68.0  | 69.4  | 67.6  | 64.8  | 57.4  | 50.5  | 47.2  |
| 80°    | 46.3  | 47.7  | 48.1  | 49.1  | 48.1  | 48.1  | 46.7  | 42.1  | 38.4  | 35.2  | 32.9  |
| 82.5°  | 31.9  | 32.9  | 33.3  | 31.9  | 32.9  | 31.5  | 29.2  | 25.9  | 23.6  | 23.1  | 22.2  |
| 85°    | 19.0  | 19.4  | 19.0  | 19.0  | 17.6  | 17.1  | 15.3  | 14.8  | 13.9  | 13.9  | 13.4  |
| 87.5°  | 9.3   | 8.8   | 7.9   | 6.9   | 6.9   | 6.5   | 6.9   | 6.0   | 6.9   | 6.5   | 6.0   |
| 90°    | 2.3   | 4.2   | 6.0   | 7.9   | 9.8   | 10.7  | 11.4  | 12.8  | 14.1  | 15.5  | 16.9  |
| 92.5°  | 11.5  | 11.2  | 10.8  | 10.5  | 10.2  | 10.0  | 10.7  | 12.0  | 13.4  | 14.7  | 16.1  |
| 95°    | 42.2  | 36.4  | 30.6  | 24.8  | 19.0  | 16.1  | 16.2  | 16.4  | 16.5  | 16.7  | 16.9  |
| 97.5°  | 80.5  | 84.3  | 88.0  | 91.8  | 95.5  | 97.4  | 88.5  | 70.6  | 52.7  | 34.8  | 16.9  |
| 100°   | 125.8 | 128.9 | 131.9 | 135.0 | 138.1 | 139.6 | 127.8 | 104.3 | 80.8  | 57.2  | 33.7  |
| 102.5° | 176.4 | 178.4 | 180.5 | 182.5 | 184.6 | 185.6 | 186.6 | 188.7 | 190.7 | 192.8 | 194.8 |
| 105°   | 230.8 | 231.8 | 232.8 | 233.9 | 234.9 | 235.4 | 235.8 | 236.7 | 237.6 | 238.4 | 239.3 |
| 107.5° | 280.7 | 281.2 | 281.7 | 282.2 | 282.7 | 283.0 | 283.6 | 284.8 | 286.0 | 287.2 | 288.4 |
| 110°   | 331.3 | 331.8 | 332.3 | 332.8 | 333.3 | 333.6 | 334.1 | 335.1 | 336.2 | 337.2 | 338.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 380.4  | 381.4  | 382.4  | 383.5  | 384.5  | 385.0  | 385.2  | 385.5  | 385.8  | 386.2  | 386.5  |
| 115°   | 431.0  | 431.5  | 432.0  | 432.5  | 433.0  | 433.3  | 433.2  | 433.0  | 432.9  | 432.7  | 432.5  |
| 117.5° | 476.3  | 477.0  | 477.6  | 478.3  | 479.0  | 479.3  | 479.6  | 480.1  | 480.6  | 481.1  | 481.6  |
| 120°   | 522.3  | 523.0  | 523.6  | 524.3  | 525.0  | 525.3  | 525.2  | 525.1  | 524.9  | 524.8  | 524.6  |
| 122.5° | 565.2  | 565.6  | 565.9  | 566.3  | 566.6  | 566.8  | 567.0  | 567.3  | 567.6  | 568.0  | 568.3  |
| 125°   | 605.9  | 606.6  | 607.2  | 607.9  | 608.6  | 608.9  | 608.7  | 608.4  | 608.1  | 607.7  | 607.4  |
| 127.5° | 645.0  | 645.2  | 645.4  | 645.5  | 645.7  | 645.8  | 646.2  | 647.1  | 647.9  | 648.8  | 649.6  |
| 130°   | 682.6  | 682.8  | 682.9  | 683.1  | 683.2  | 683.3  | 683.6  | 684.1  | 684.6  | 685.1  | 685.6  |
| 132.5° | 717.1  | 717.4  | 717.8  | 718.1  | 718.4  | 718.6  | 718.9  | 719.6  | 720.3  | 721.0  | 721.7  |
| 135°   | 751.6  | 751.4  | 751.2  | 751.1  | 750.9  | 750.8  | 751.1  | 751.8  | 752.5  | 753.2  | 753.9  |
| 137.5° | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  | 782.7  | 783.6  | 784.4  | 785.3  | 786.1  |
| 140°   | 812.2  | 812.5  | 812.9  | 813.2  | 813.5  | 813.7  | 813.9  | 814.2  | 814.5  | 814.9  | 815.2  |
| 142.5° | 839.0  | 839.7  | 840.4  | 841.1  | 841.8  | 842.1  | 842.2  | 842.4  | 842.5  | 842.7  | 842.9  |
| 145°   | 866.6  | 867.1  | 867.6  | 868.1  | 868.6  | 868.9  | 868.9  | 868.9  | 868.9  | 868.9  | 868.9  |
| 147.5° | 888.1  | 889.1  | 890.1  | 891.2  | 892.2  | 892.7  | 892.6  | 892.4  | 892.3  | 892.1  | 891.9  |
| 150°   | 911.9  | 912.6  | 913.2  | 913.9  | 914.6  | 914.9  | 914.8  | 914.7  | 914.5  | 914.4  | 914.2  |
| 152.5° | 931.8  | 932.3  | 932.8  | 933.3  | 933.8  | 934.1  | 933.9  | 933.6  | 933.3  | 932.9  | 932.6  |
| 155°   | 950.2  | 950.4  | 950.6  | 950.7  | 950.9  | 951.0  | 950.7  | 950.2  | 949.7  | 949.2  | 948.7  |
| 157.5° | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.0  | 965.3  | 964.6  | 964.0  | 963.3  |
| 160°   | 980.1  | 979.6  | 979.1  | 978.6  | 978.1  | 977.8  | 977.7  | 977.6  | 977.4  | 977.3  | 977.1  |
| 162.5° | 992.4  | 991.7  | 991.0  | 990.3  | 989.6  | 989.3  | 989.2  | 989.1  | 988.9  | 988.8  | 988.6  |
| 165°   | 1002.4 | 1001.5 | 1000.7 | 999.8  | 998.9  | 998.5  | 998.5  | 998.5  | 998.5  | 998.5  | 998.5  |
| 167.5° | 1010.8 | 1010.0 | 1009.1 | 1008.3 | 1007.4 | 1007.0 | 1006.9 | 1006.7 | 1006.6 | 1006.4 | 1006.2 |
| 170°   | 1017.7 | 1016.7 | 1015.7 | 1014.6 | 1013.6 | 1013.1 | 1013.2 | 1013.4 | 1013.5 | 1013.7 | 1013.9 |
| 172.5° | 1022.3 | 1021.3 | 1020.3 | 1019.2 | 1018.2 | 1017.7 | 1017.8 | 1018.0 | 1018.1 | 1018.3 | 1018.5 |
| 175°   | 1025.4 | 1024.4 | 1023.4 | 1022.3 | 1021.3 | 1020.8 | 1020.9 | 1021.0 | 1021.2 | 1021.3 | 1021.5 |
| 177.5° | 1027.7 | 1026.5 | 1025.3 | 1024.1 | 1022.9 | 1022.3 | 1022.5 | 1022.8 | 1023.1 | 1023.5 | 1023.8 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 |
| 2.5°   | 602.2 | 607.3 | 607.7 | 612.3 | 611.0 | 608.6 | 612.8 | 610.0 | 615.6 | 613.7 | 616.1 |
| 5°     | 637.3 | 644.3 | 650.3 | 654.0 | 660.5 | 659.1 | 666.0 | 663.7 | 668.8 | 663.7 | 670.2 |
| 7.5°   | 678.5 | 690.1 | 696.1 | 705.8 | 708.6 | 709.1 | 717.4 | 719.3 | 722.5 | 719.3 | 723.0 |
| 10°    | 718.8 | 732.7 | 746.6 | 754.4 | 759.5 | 766.5 | 773.9 | 777.1 | 779.4 | 776.2 | 778.5 |
| 12.5°  | 755.4 | 777.1 | 792.4 | 808.1 | 811.8 | 817.9 | 825.7 | 824.8 | 834.1 | 832.2 | 836.4 |
| 15°    | 789.2 | 813.2 | 831.7 | 844.2 | 854.4 | 859.5 | 874.3 | 875.2 | 874.8 | 879.4 | 876.6 |
| 17.5°  | 819.2 | 839.6 | 866.0 | 882.2 | 894.7 | 894.7 | 903.0 | 920.1 | 918.8 | 918.3 | 921.1 |
| 20°    | 843.8 | 866.9 | 891.4 | 918.8 | 928.9 | 930.8 | 942.4 | 951.2 | 952.5 | 952.5 | 952.5 |
| 22.5°  | 862.3 | 889.6 | 916.0 | 935.4 | 943.3 | 949.8 | 959.9 | 965.5 | 967.4 | 966.4 | 967.4 |
| 25°    | 871.5 | 897.5 | 924.3 | 941.9 | 946.5 | 950.2 | 951.2 | 954.4 | 953.9 | 948.4 | 951.6 |
| 27.5°  | 873.4 | 898.4 | 916.0 | 920.6 | 918.3 | 916.0 | 901.2 | 902.6 | 898.4 | 890.1 | 893.3 |
| 30°    | 865.1 | 878.5 | 878.0 | 863.7 | 859.5 | 849.8 | 836.4 | 816.5 | 800.3 | 793.3 | 795.6 |
| 32.5°  | 835.0 | 835.0 | 818.3 | 785.9 | 771.6 | 754.0 | 729.9 | 711.9 | 690.6 | 685.9 | 694.7 |
| 35°    | 793.3 | 769.7 | 739.2 | 696.6 | 674.8 | 661.9 | 620.2 | 607.3 | 589.2 | 584.1 | 588.3 |
| 37.5°  | 728.5 | 689.2 | 644.7 | 604.9 | 586.4 | 563.3 | 526.7 | 508.2 | 495.2 | 486.5 | 490.6 |
| 40°    | 655.9 | 608.2 | 561.9 | 512.8 | 492.5 | 473.5 | 446.2 | 429.5 | 408.7 | 409.6 | 411.0 |
| 42.5°  | 586.4 | 530.4 | 478.6 | 433.2 | 413.8 | 398.0 | 379.1 | 358.7 | 351.3 | 349.0 | 346.7 |
| 45°    | 512.8 | 453.1 | 404.5 | 370.7 | 353.2 | 338.3 | 320.8 | 309.2 | 300.4 | 298.5 | 300.9 |
| 47.5°  | 443.4 | 393.0 | 346.7 | 315.2 | 300.9 | 293.4 | 279.6 | 268.9 | 263.4 | 258.7 | 261.5 |
| 50°    | 380.5 | 333.3 | 296.2 | 269.8 | 259.7 | 254.6 | 241.6 | 236.1 | 230.5 | 229.1 | 228.6 |
| 52.5°  | 328.6 | 288.4 | 256.4 | 235.1 | 227.3 | 224.5 | 214.8 | 206.9 | 202.3 | 203.7 | 204.6 |
| 55°    | 281.4 | 247.2 | 222.2 | 205.0 | 198.6 | 195.3 | 188.4 | 182.8 | 179.6 | 178.2 | 179.1 |
| 57.5°  | 239.8 | 210.1 | 192.1 | 178.2 | 173.1 | 171.7 | 164.3 | 162.5 | 160.1 | 158.8 | 158.8 |
| 60°    | 201.8 | 181.0 | 164.3 | 156.4 | 150.9 | 149.5 | 143.9 | 141.6 | 141.2 | 139.8 | 138.9 |
| 62.5°  | 169.9 | 152.7 | 141.2 | 132.8 | 130.5 | 130.1 | 126.4 | 123.6 | 122.2 | 121.3 | 121.3 |
| 65°    | 142.1 | 129.6 | 119.9 | 113.9 | 112.0 | 111.1 | 106.9 | 106.0 | 105.1 | 104.1 | 103.7 |
| 67.5°  | 118.5 | 107.4 | 100.4 | 96.3  | 94.0  | 94.4  | 92.1  | 90.3  | 90.3  | 89.8  | 89.3  |
| 70°    | 95.8  | 88.9  | 82.8  | 80.5  | 79.6  | 78.7  | 77.8  | 76.4  | 75.9  | 75.9  | 75.9  |
| 72.5°  | 75.4  | 70.8  | 67.6  | 66.2  | 65.3  | 64.3  | 63.4  | 63.4  | 63.4  | 62.9  | 62.9  |
| 75°    | 57.9  | 56.0  | 53.7  | 52.3  | 52.3  | 53.2  | 51.8  | 50.5  | 49.1  | 48.1  | 48.6  |
| 77.5°  | 43.5  | 42.6  | 41.2  | 38.9  | 39.3  | 38.4  | 38.4  | 37.5  | 38.0  | 38.0  | 37.0  |
| 80°    | 31.9  | 30.5  | 30.1  | 28.7  | 29.2  | 28.7  | 28.2  | 28.2  | 27.3  | 27.3  | 27.3  |
| 82.5°  | 22.2  | 20.8  | 20.8  | 20.4  | 19.9  | 19.9  | 19.4  | 19.4  | 19.9  | 19.0  | 19.0  |
| 85°    | 13.4  | 13.0  | 13.0  | 12.0  | 12.0  | 12.0  | 12.0  | 12.5  | 12.0  | 11.6  | 11.6  |
| 87.5°  | 6.0   | 6.5   | 6.0   | 5.6   | 5.6   | 5.6   | 5.1   | 5.1   | 4.6   | 5.1   | 5.1   |
| 90°    | 17.9  | 18.9  | 20.0  | 21.0  | 21.5  | 21.7  | 22.0  | 22.3  | 22.7  | 23.0  | 22.7  |
| 92.5°  | 17.1  | 18.1  | 19.2  | 20.2  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  |
| 95°    | 17.9  | 18.9  | 20.0  | 21.0  | 21.5  | 21.6  | 21.7  | 21.9  | 22.0  | 22.2  | 22.0  |
| 97.5°  | 17.7  | 18.6  | 19.4  | 20.3  | 20.7  | 20.8  | 21.0  | 21.1  | 21.3  | 21.5  | 21.3  |
| 100°   | 30.8  | 27.9  | 25.0  | 22.1  | 20.7  | 20.8  | 21.0  | 21.1  | 21.3  | 21.5  | 21.3  |
| 102.5° | 156.4 | 118.1 | 79.7  | 41.4  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  |
| 105°   | 240.8 | 242.4 | 243.9 | 245.4 | 246.2 | 243.1 | 237.0 | 230.9 | 224.7 | 218.6 | 224.7 |
| 107.5° | 289.2 | 290.1 | 290.9 | 291.8 | 292.2 | 292.5 | 293.2 | 293.9 | 294.6 | 295.3 | 294.6 |
| 110°   | 338.5 | 338.9 | 339.2 | 339.5 | 339.7 | 340.0 | 340.5 | 341.0 | 341.5 | 342.0 | 341.5 |



TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 386.3  | 386.2  | 386.0  | 385.9  | 385.8  | 386.1  | 386.8  | 387.5  | 388.1  | 388.8  | 388.1  |
| 115°   | 432.9  | 433.2  | 433.6  | 433.9  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  |
| 117.5° | 481.4  | 481.3  | 481.1  | 481.0  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  |
| 120°   | 524.9  | 525.3  | 525.6  | 525.9  | 526.1  | 525.9  | 525.6  | 525.3  | 524.9  | 524.6  | 524.9  |
| 122.5° | 568.5  | 568.7  | 568.8  | 569.0  | 569.1  | 568.9  | 568.6  | 568.2  | 567.9  | 567.5  | 567.9  |
| 125°   | 607.9  | 608.4  | 608.9  | 609.4  | 609.7  | 609.8  | 610.0  | 610.1  | 610.3  | 610.5  | 610.3  |
| 127.5° | 649.4  | 649.2  | 649.1  | 648.9  | 648.8  | 648.7  | 648.6  | 648.4  | 648.3  | 648.1  | 648.3  |
| 130°   | 685.8  | 686.0  | 686.1  | 686.3  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  |
| 132.5° | 721.9  | 722.0  | 722.2  | 722.3  | 722.4  | 722.3  | 722.2  | 722.0  | 721.9  | 721.7  | 721.9  |
| 135°   | 754.2  | 754.6  | 754.9  | 755.2  | 755.4  | 755.6  | 755.9  | 756.3  | 756.6  | 757.0  | 756.6  |
| 137.5° | 786.4  | 786.8  | 787.1  | 787.4  | 787.6  | 787.5  | 787.4  | 787.2  | 787.1  | 786.9  | 787.1  |
| 140°   | 815.7  | 816.2  | 816.7  | 817.2  | 817.5  | 817.6  | 817.8  | 817.9  | 818.1  | 818.3  | 818.1  |
| 142.5° | 843.2  | 843.6  | 843.9  | 844.2  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  |
| 145°   | 869.1  | 869.3  | 869.4  | 869.6  | 869.7  | 869.9  | 870.2  | 870.5  | 870.9  | 871.2  | 870.9  |
| 147.5° | 892.1  | 892.3  | 892.4  | 892.6  | 892.7  | 892.8  | 893.0  | 893.1  | 893.3  | 893.5  | 893.3  |
| 150°   | 914.2  | 914.2  | 914.2  | 914.2  | 914.2  | 914.3  | 914.4  | 914.6  | 914.7  | 914.9  | 914.7  |
| 152.5° | 932.9  | 933.3  | 933.6  | 933.9  | 934.1  | 934.0  | 933.8  | 933.7  | 933.5  | 933.3  | 933.5  |
| 155°   | 949.4  | 950.1  | 950.8  | 951.5  | 951.8  | 951.5  | 951.0  | 950.5  | 950.0  | 949.5  | 950.0  |
| 157.5° | 964.1  | 965.0  | 965.8  | 966.7  | 967.1  | 966.7  | 965.8  | 965.0  | 964.1  | 963.3  | 964.1  |
| 160°   | 978.1  | 979.1  | 980.2  | 981.2  | 981.7  | 981.2  | 980.2  | 979.1  | 978.1  | 977.1  | 978.1  |
| 162.5° | 989.6  | 990.6  | 991.7  | 992.7  | 993.2  | 992.6  | 991.4  | 990.2  | 989.0  | 987.8  | 989.0  |
| 165°   | 999.9  | 1001.3 | 1002.6 | 1004.0 | 1004.7 | 1003.9 | 1002.4 | 1000.9 | 999.3  | 997.8  | 999.3  |
| 167.5° | 1007.7 | 1009.3 | 1010.8 | 1012.3 | 1013.1 | 1012.2 | 1010.5 | 1008.8 | 1007.1 | 1005.4 | 1007.1 |
| 170°   | 1015.3 | 1016.6 | 1018.0 | 1019.3 | 1020.0 | 1019.1 | 1017.4 | 1015.7 | 1014.0 | 1012.3 | 1014.0 |
| 172.5° | 1019.9 | 1021.2 | 1022.6 | 1023.9 | 1024.6 | 1023.7 | 1021.8 | 1019.9 | 1018.1 | 1016.2 | 1018.1 |
| 175°   | 1023.0 | 1024.6 | 1026.1 | 1027.6 | 1028.4 | 1027.4 | 1025.3 | 1023.3 | 1021.2 | 1019.2 | 1021.2 |
| 177.5° | 1025.2 | 1026.6 | 1027.9 | 1029.3 | 1030.0 | 1029.0 | 1026.9 | 1024.9 | 1022.8 | 1020.8 | 1022.8 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 574.4 | 574.4 | 574.4 | 574.4  | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 |
| 2.5°   | 617.4 | 614.2 | 613.7 | 613.7  | 608.6 | 611.4 | 605.9 | 599.9 | 597.1 | 597.1 | 592.0 |
| 5°     | 668.8 | 665.6 | 662.3 | 657.2  | 657.2 | 654.5 | 645.7 | 636.9 | 630.4 | 624.8 | 618.8 |
| 7.5°   | 721.6 | 718.3 | 709.1 | 704.0  | 706.8 | 701.2 | 689.6 | 674.8 | 663.7 | 654.9 | 642.4 |
| 10°    | 779.0 | 770.2 | 765.5 | 762.8  | 753.1 | 747.0 | 733.6 | 711.9 | 698.0 | 686.4 | 670.2 |
| 12.5°  | 825.7 | 828.5 | 810.9 | 812.3  | 802.6 | 794.2 | 773.4 | 752.6 | 731.8 | 715.6 | 691.5 |
| 15°    | 876.2 | 867.8 | 857.2 | 848.9  | 845.6 | 835.4 | 817.9 | 790.1 | 767.4 | 741.9 | 714.6 |
| 17.5°  | 916.0 | 909.5 | 899.3 | 891.4  | 884.5 | 860.0 | 845.2 | 820.6 | 789.6 | 764.6 | 731.3 |
| 20°    | 949.8 | 943.7 | 929.4 | 924.3  | 911.8 | 894.2 | 872.9 | 835.0 | 807.2 | 779.9 | 747.5 |
| 22.5°  | 964.1 | 958.1 | 945.6 | 939.1  | 931.2 | 914.1 | 893.8 | 857.7 | 823.4 | 789.2 | 754.9 |
| 25°    | 952.1 | 952.1 | 946.1 | 943.7  | 936.8 | 921.5 | 900.7 | 870.2 | 833.6 | 796.6 | 755.8 |
| 27.5°  | 893.8 | 905.3 | 909.5 | 911.8  | 911.8 | 912.3 | 897.9 | 868.3 | 832.7 | 796.6 | 754.0 |
| 30°    | 809.5 | 829.0 | 846.1 | 851.2  | 860.0 | 869.7 | 875.7 | 861.4 | 829.4 | 791.5 | 748.9 |
| 32.5°  | 703.5 | 728.5 | 760.5 | 768.3  | 780.4 | 809.5 | 825.7 | 831.7 | 814.1 | 780.8 | 735.5 |
| 35°    | 598.0 | 629.5 | 648.9 | 673.0  | 684.1 | 727.1 | 763.2 | 785.0 | 780.8 | 760.9 | 719.7 |
| 37.5°  | 505.9 | 523.9 | 547.5 | 573.0  | 595.2 | 636.4 | 681.3 | 723.4 | 740.6 | 730.8 | 699.8 |
| 40°    | 417.5 | 438.8 | 467.0 | 487.8  | 503.1 | 544.3 | 599.9 | 645.7 | 683.2 | 689.2 | 670.2 |
| 42.5°  | 355.0 | 376.3 | 393.4 | 416.1  | 428.1 | 467.9 | 517.0 | 574.4 | 618.8 | 642.4 | 634.1 |
| 45°    | 306.9 | 319.8 | 333.7 | 346.7  | 361.5 | 396.7 | 442.0 | 505.0 | 555.0 | 588.3 | 591.5 |
| 47.5°  | 264.7 | 276.3 | 288.4 | 300.4  | 308.7 | 336.0 | 377.7 | 429.1 | 483.7 | 529.5 | 547.5 |
| 50°    | 235.1 | 240.7 | 249.5 | 256.4  | 266.1 | 289.7 | 323.1 | 367.5 | 425.4 | 474.9 | 498.5 |
| 52.5°  | 206.0 | 212.9 | 219.9 | 225.9  | 232.3 | 249.0 | 279.6 | 318.0 | 368.0 | 418.9 | 448.0 |
| 55°    | 181.4 | 187.0 | 193.5 | 197.6  | 201.3 | 216.1 | 239.3 | 268.9 | 312.0 | 360.1 | 396.2 |
| 57.5°  | 161.5 | 163.8 | 169.4 | 171.7  | 175.9 | 187.9 | 204.6 | 231.0 | 265.7 | 312.4 | 342.0 |
| 60°    | 139.8 | 144.4 | 148.6 | 150.4  | 153.7 | 162.0 | 173.6 | 198.1 | 228.2 | 262.4 | 296.2 |
| 62.5°  | 122.2 | 124.0 | 127.3 | 129.6  | 131.9 | 140.7 | 150.4 | 168.9 | 191.6 | 220.3 | 251.3 |
| 65°    | 106.0 | 106.9 | 108.8 | 112.0  | 113.4 | 119.9 | 125.4 | 138.9 | 160.1 | 181.9 | 212.9 |
| 67.5°  | 89.3  | 90.3  | 92.6  | 94.4   | 95.8  | 100.0 | 106.0 | 115.7 | 127.3 | 151.4 | 168.5 |
| 70°    | 76.4  | 76.4  | 77.8  | 78.7   | 80.1  | 81.9  | 85.2  | 92.6  | 103.2 | 118.5 | 134.2 |
| 72.5°  | 63.9  | 63.9  | 63.9  | 65.3   | 65.3  | 66.7  | 68.5  | 73.6  | 81.0  | 93.0  | 103.2 |
| 75°    | 49.5  | 50.0  | 50.9  | 50.9   | 51.4  | 53.2  | 54.6  | 56.0  | 59.7  | 67.6  | 76.8  |
| 77.5°  | 37.5  | 38.4  | 38.9  | 38.0   | 38.9  | 38.9  | 40.7  | 42.6  | 44.4  | 46.7  | 53.7  |
| 80°    | 27.8  | 28.2  | 27.3  | 27.8   | 27.8  | 28.7  | 29.6  | 29.2  | 30.1  | 32.9  | 34.7  |
| 82.5°  | 18.5  | 19.0  | 19.0  | 19.0   | 19.0  | 20.4  | 20.4  | 19.9  | 20.4  | 20.8  | 21.3  |
| 85°    | 11.6  | 11.1  | 11.1  | 11.6   | 11.1  | 11.1  | 11.6  | 12.0  | 11.6  | 12.0  | 12.5  |
| 87.5°  | 5.1   | 5.1   | 5.1   | 5.1    | 4.6   | 4.6   | 5.1   | 4.6   | 5.1   | 4.6   | 4.2   |
| 90°    | 22.3  | 22.0  | 21.7  | 21.5   | 21.0  | 20.0  | 18.9  | 17.9  | 16.9  | 15.5  | 14.1  |
| 92.5°  | 20.7  | 20.7  | 20.7  | 20.7   | 20.2  | 19.2  | 18.1  | 17.1  | 16.1  | 14.7  | 13.4  |
| 95°    | 21.9  | 21.7  | 21.6  | 21.5   | 21.0  | 20.0  | 18.9  | 17.9  | 16.9  | 16.7  | 16.5  |
| 97.5°  | 21.1  | 21.0  | 20.8  | 20.7   | 20.3  | 19.4  | 18.6  | 17.7  | 16.9  | 34.8  | 52.7  |
| 100°   | 21.1  | 21.0  | 20.8  | 20.7   | 22.1  | 25.0  | 27.9  | 30.8  | 33.7  | 57.2  | 80.8  |
| 102.5° | 22.2  | 22.2  | 22.2  | 22.2   | 41.4  | 79.7  | 118.1 | 156.4 | 194.8 | 192.8 | 190.7 |
| 105°   | 230.9 | 237.0 | 243.1 | 246.2  | 245.4 | 243.9 | 242.4 | 240.8 | 239.3 | 238.4 | 237.6 |
| 107.5° | 293.9 | 293.2 | 292.5 | 292.2  | 291.8 | 290.9 | 290.1 | 289.2 | 288.4 | 287.2 | 286.0 |
| 110°   | 341.0 | 340.5 | 340.0 | 339.7  | 339.5 | 339.2 | 338.9 | 338.5 | 338.2 | 337.2 | 336.2 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 387.5  | 386.8  | 386.1  | 385.8  | 385.9  | 386.0  | 386.2  | 386.3  | 386.5  | 386.2  | 385.8  |
| 115°   | 434.1  | 434.1  | 434.1  | 434.1  | 433.9  | 433.6  | 433.2  | 432.9  | 432.5  | 432.7  | 432.9  |
| 117.5° | 480.9  | 480.9  | 480.9  | 480.9  | 481.0  | 481.1  | 481.3  | 481.4  | 481.6  | 481.1  | 480.6  |
| 120°   | 525.3  | 525.6  | 525.9  | 526.1  | 525.9  | 525.6  | 525.3  | 524.9  | 524.6  | 524.8  | 524.9  |
| 122.5° | 568.2  | 568.6  | 568.9  | 569.1  | 569.0  | 568.8  | 568.7  | 568.5  | 568.3  | 568.0  | 567.6  |
| 125°   | 610.1  | 610.0  | 609.8  | 609.7  | 609.4  | 608.9  | 608.4  | 607.9  | 607.4  | 607.7  | 608.1  |
| 127.5° | 648.4  | 648.6  | 648.7  | 648.8  | 648.9  | 649.1  | 649.2  | 649.4  | 649.6  | 648.8  | 647.9  |
| 130°   | 686.4  | 686.4  | 686.4  | 686.4  | 686.3  | 686.1  | 686.0  | 685.8  | 685.6  | 685.1  | 684.6  |
| 132.5° | 722.0  | 722.2  | 722.3  | 722.4  | 722.3  | 722.2  | 722.0  | 721.9  | 721.7  | 721.0  | 720.3  |
| 135°   | 756.3  | 755.9  | 755.6  | 755.4  | 755.2  | 754.9  | 754.6  | 754.2  | 753.9  | 753.2  | 752.5  |
| 137.5° | 787.2  | 787.4  | 787.5  | 787.6  | 787.4  | 787.1  | 786.8  | 786.4  | 786.1  | 785.3  | 784.4  |
| 140°   | 817.9  | 817.8  | 817.6  | 817.5  | 817.2  | 816.7  | 816.2  | 815.7  | 815.2  | 814.9  | 814.5  |
| 142.5° | 844.4  | 844.4  | 844.4  | 844.4  | 844.2  | 843.9  | 843.6  | 843.2  | 842.9  | 842.7  | 842.5  |
| 145°   | 870.5  | 870.2  | 869.9  | 869.7  | 869.6  | 869.4  | 869.3  | 869.1  | 868.9  | 868.9  | 868.9  |
| 147.5° | 893.1  | 893.0  | 892.8  | 892.7  | 892.6  | 892.4  | 892.3  | 892.1  | 891.9  | 892.1  | 892.3  |
| 150°   | 914.6  | 914.4  | 914.3  | 914.2  | 914.2  | 914.2  | 914.2  | 914.2  | 914.2  | 914.4  | 914.5  |
| 152.5° | 933.7  | 933.8  | 934.0  | 934.1  | 933.9  | 933.6  | 933.3  | 932.9  | 932.6  | 932.9  | 933.3  |
| 155°   | 950.5  | 951.0  | 951.5  | 951.8  | 951.5  | 950.8  | 950.1  | 949.4  | 948.7  | 949.2  | 949.7  |
| 157.5° | 965.0  | 965.8  | 966.7  | 967.1  | 966.7  | 965.8  | 965.0  | 964.1  | 963.3  | 964.0  | 964.6  |
| 160°   | 979.1  | 980.2  | 981.2  | 981.7  | 981.2  | 980.2  | 979.1  | 978.1  | 977.1  | 977.3  | 977.4  |
| 162.5° | 990.2  | 991.4  | 992.6  | 993.2  | 992.7  | 991.7  | 990.6  | 989.6  | 988.6  | 988.8  | 988.9  |
| 165°   | 1000.9 | 1002.4 | 1003.9 | 1004.7 | 1004.0 | 1002.6 | 1001.3 | 999.9  | 998.5  | 998.5  | 998.5  |
| 167.5° | 1008.8 | 1010.5 | 1012.2 | 1013.1 | 1012.3 | 1010.8 | 1009.3 | 1007.7 | 1006.2 | 1006.4 | 1006.6 |
| 170°   | 1015.7 | 1017.4 | 1019.1 | 1020.0 | 1019.3 | 1018.0 | 1016.6 | 1015.3 | 1013.9 | 1013.7 | 1013.5 |
| 172.5° | 1019.9 | 1021.8 | 1023.7 | 1024.6 | 1023.9 | 1022.6 | 1021.2 | 1019.9 | 1018.5 | 1018.3 | 1018.1 |
| 175°   | 1023.3 | 1025.3 | 1027.4 | 1028.4 | 1027.6 | 1026.1 | 1024.6 | 1023.0 | 1021.5 | 1021.3 | 1021.2 |
| 177.5° | 1024.9 | 1026.9 | 1029.0 | 1030.0 | 1029.3 | 1027.9 | 1026.6 | 1025.2 | 1023.8 | 1023.5 | 1023.1 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 574.4 | 574.4 | 574.4  | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 |
| 2.5°   | 589.2 | 586.9 | 585.5  | 585.0 | 580.9 | 578.6 | 577.2 | 576.2 | 574.9 | 571.2 | 567.9 |
| 5°     | 611.4 | 604.9 | 601.7  | 598.0 | 591.5 | 584.1 | 578.1 | 574.4 | 569.8 | 562.4 | 555.4 |
| 7.5°   | 632.2 | 622.5 | 616.1  | 611.0 | 599.9 | 587.8 | 578.1 | 570.2 | 561.4 | 551.3 | 541.5 |
| 10°    | 654.0 | 638.3 | 629.9  | 622.1 | 605.9 | 590.1 | 576.2 | 564.7 | 552.2 | 538.8 | 528.1 |
| 12.5°  | 671.1 | 650.3 | 641.0  | 629.9 | 610.0 | 591.5 | 573.9 | 558.2 | 542.0 | 527.6 | 512.4 |
| 15°    | 691.0 | 665.1 | 654.5  | 640.1 | 612.8 | 588.7 | 566.1 | 548.9 | 532.3 | 511.0 | 494.8 |
| 17.5°  | 702.6 | 672.5 | 657.2  | 644.7 | 615.1 | 586.0 | 559.6 | 538.3 | 518.9 | 497.6 | 480.4 |
| 20°    | 714.2 | 679.9 | 662.8  | 645.2 | 610.0 | 579.0 | 551.3 | 525.8 | 505.4 | 482.3 | 464.7 |
| 22.5°  | 717.9 | 678.1 | 660.0  | 643.8 | 606.8 | 572.1 | 540.1 | 514.2 | 490.6 | 467.5 | 447.6 |
| 25°    | 717.9 | 677.6 | 656.3  | 635.5 | 596.6 | 561.0 | 529.0 | 500.8 | 474.4 | 451.3 | 431.4 |
| 27.5°  | 710.5 | 668.4 | 646.1  | 627.2 | 586.9 | 548.5 | 515.6 | 484.6 | 459.1 | 436.0 | 413.3 |
| 30°    | 701.2 | 654.9 | 632.7  | 610.0 | 571.2 | 534.6 | 498.9 | 470.3 | 443.4 | 417.0 | 396.7 |
| 32.5°  | 689.6 | 640.6 | 616.1  | 592.9 | 551.7 | 513.8 | 480.9 | 452.7 | 427.2 | 399.9 | 377.2 |
| 35°    | 673.0 | 619.3 | 592.0  | 571.6 | 531.8 | 492.5 | 461.0 | 433.2 | 408.7 | 380.5 | 355.9 |
| 37.5°  | 651.7 | 599.9 | 572.1  | 547.1 | 505.9 | 469.8 | 440.2 | 413.3 | 389.3 | 363.3 | 336.0 |
| 40°    | 626.7 | 572.5 | 548.5  | 522.1 | 478.6 | 444.3 | 416.6 | 392.5 | 368.4 | 343.9 | 317.5 |
| 42.5°  | 598.5 | 544.8 | 517.9  | 492.5 | 450.8 | 417.0 | 391.1 | 369.4 | 347.1 | 324.5 | 296.2 |
| 45°    | 564.7 | 514.2 | 488.3  | 464.2 | 424.0 | 389.3 | 365.6 | 344.8 | 325.8 | 302.7 | 277.7 |
| 47.5°  | 526.7 | 482.7 | 456.4  | 430.4 | 391.1 | 361.0 | 337.9 | 320.3 | 304.1 | 280.9 | 258.3 |
| 50°    | 489.7 | 446.2 | 424.9  | 398.5 | 362.4 | 334.2 | 310.6 | 295.8 | 283.3 | 260.6 | 240.2 |
| 52.5°  | 442.9 | 410.1 | 389.7  | 367.0 | 332.3 | 303.6 | 285.1 | 272.2 | 257.3 | 239.8 | 221.7 |
| 55°    | 401.8 | 371.2 | 355.0  | 333.7 | 299.5 | 274.0 | 258.3 | 246.2 | 234.7 | 218.9 | 204.6 |
| 57.5°  | 355.0 | 336.0 | 319.8  | 301.3 | 267.5 | 245.8 | 231.9 | 221.7 | 211.1 | 198.1 | 186.5 |
| 60°    | 305.9 | 297.1 | 281.4  | 266.6 | 237.9 | 218.9 | 207.4 | 198.1 | 187.9 | 177.3 | 167.6 |
| 62.5°  | 262.4 | 257.3 | 248.1  | 236.5 | 209.7 | 193.5 | 181.9 | 175.0 | 167.6 | 157.8 | 148.6 |
| 65°    | 221.2 | 218.9 | 210.1  | 201.8 | 183.3 | 168.9 | 158.8 | 154.6 | 146.3 | 138.9 | 130.5 |
| 67.5°  | 184.7 | 181.9 | 176.8  | 173.1 | 157.4 | 143.9 | 138.9 | 133.3 | 126.4 | 120.8 | 113.9 |
| 70°    | 147.6 | 147.2 | 143.9  | 139.3 | 131.0 | 121.3 | 116.2 | 112.5 | 105.5 | 101.4 | 96.3  |
| 72.5°  | 114.8 | 117.1 | 114.3  | 112.5 | 106.9 | 100.0 | 95.3  | 93.0  | 87.5  | 84.2  | 80.5  |
| 75°    | 85.6  | 87.5  | 88.9   | 85.6  | 84.2  | 81.0  | 76.8  | 74.5  | 71.7  | 67.1  | 65.7  |
| 77.5°  | 58.3  | 62.5  | 62.5   | 63.4  | 63.9  | 62.0  | 58.8  | 56.9  | 53.7  | 52.8  | 50.9  |
| 80°    | 38.4  | 42.1  | 42.6   | 43.5  | 44.9  | 44.9  | 42.6  | 42.1  | 38.9  | 38.4  | 37.0  |
| 82.5°  | 22.2  | 25.5  | 27.3   | 28.7  | 28.2  | 30.1  | 28.2  | 27.8  | 25.9  | 25.9  | 25.0  |
| 85°    | 12.0  | 12.5  | 13.4   | 14.3  | 15.3  | 16.2  | 16.2  | 15.7  | 15.3  | 14.8  | 13.9  |
| 87.5°  | 4.6   | 4.6   | 5.1    | 4.6   | 5.1   | 6.0   | 6.5   | 6.5   | 6.0   | 5.6   | 4.6   |
| 90°    | 12.8  | 11.4  | 10.7   | 9.8   | 7.9   | 6.0   | 4.2   | 2.3   | 4.2   | 6.0   | 7.9   |
| 92.5°  | 12.0  | 10.7  | 10.0   | 10.2  | 10.5  | 10.8  | 11.2  | 11.5  | 11.2  | 10.8  | 10.5  |
| 95°    | 16.4  | 16.2  | 16.1   | 19.0  | 24.8  | 30.6  | 36.4  | 42.2  | 36.4  | 30.6  | 24.8  |
| 97.5°  | 70.6  | 88.5  | 97.4   | 95.5  | 91.8  | 88.0  | 84.3  | 80.5  | 84.3  | 88.0  | 91.8  |
| 100°   | 104.3 | 127.8 | 139.6  | 138.1 | 135.0 | 131.9 | 128.9 | 125.8 | 128.9 | 131.9 | 135.0 |
| 102.5° | 188.7 | 186.6 | 185.6  | 184.6 | 182.5 | 180.5 | 178.4 | 176.4 | 178.4 | 180.5 | 182.5 |
| 105°   | 236.7 | 235.8 | 235.4  | 234.9 | 233.9 | 232.8 | 231.8 | 230.8 | 231.8 | 232.8 | 233.9 |
| 107.5° | 284.8 | 283.6 | 283.0  | 282.7 | 282.2 | 281.7 | 281.2 | 280.7 | 281.2 | 281.7 | 282.2 |
| 110°   | 335.1 | 334.1 | 333.6  | 333.3 | 332.8 | 332.3 | 331.8 | 331.3 | 331.8 | 332.3 | 332.8 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 385.5  | 385.2  | 385.0  | 384.5  | 383.5  | 382.4  | 381.4  | 380.4  | 381.4  | 382.4  | 383.5  |
| 115°   | 433.0  | 433.2  | 433.3  | 433.0  | 432.5  | 432.0  | 431.5  | 431.0  | 431.5  | 432.0  | 432.5  |
| 117.5° | 480.1  | 479.6  | 479.3  | 479.0  | 478.3  | 477.6  | 477.0  | 476.3  | 477.0  | 477.6  | 478.3  |
| 120°   | 525.1  | 525.2  | 525.3  | 525.0  | 524.3  | 523.6  | 523.0  | 522.3  | 523.0  | 523.6  | 524.3  |
| 122.5° | 567.3  | 567.0  | 566.8  | 566.6  | 566.3  | 565.9  | 565.6  | 565.2  | 565.6  | 565.9  | 566.3  |
| 125°   | 608.4  | 608.7  | 608.9  | 608.6  | 607.9  | 607.2  | 606.6  | 605.9  | 606.6  | 607.2  | 607.9  |
| 127.5° | 647.1  | 646.2  | 645.8  | 645.7  | 645.5  | 645.4  | 645.2  | 645.0  | 645.2  | 645.4  | 645.5  |
| 130°   | 684.1  | 683.6  | 683.3  | 683.2  | 683.1  | 682.9  | 682.8  | 682.6  | 682.8  | 682.9  | 683.1  |
| 132.5° | 719.6  | 718.9  | 718.6  | 718.4  | 718.1  | 717.8  | 717.4  | 717.1  | 717.4  | 717.8  | 718.1  |
| 135°   | 751.8  | 751.1  | 750.8  | 750.9  | 751.1  | 751.2  | 751.4  | 751.6  | 751.4  | 751.2  | 751.1  |
| 137.5° | 783.6  | 782.7  | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  | 782.3  |
| 140°   | 814.2  | 813.9  | 813.7  | 813.5  | 813.2  | 812.9  | 812.5  | 812.2  | 812.5  | 812.9  | 813.2  |
| 142.5° | 842.4  | 842.2  | 842.1  | 841.8  | 841.1  | 840.4  | 839.7  | 839.0  | 839.7  | 840.4  | 841.1  |
| 145°   | 868.9  | 868.9  | 868.9  | 868.6  | 868.1  | 867.6  | 867.1  | 866.6  | 867.1  | 867.6  | 868.1  |
| 147.5° | 892.4  | 892.6  | 892.7  | 892.2  | 891.2  | 890.1  | 889.1  | 888.1  | 889.1  | 890.1  | 891.2  |
| 150°   | 914.7  | 914.8  | 914.9  | 914.6  | 913.9  | 913.2  | 912.6  | 911.9  | 912.6  | 913.2  | 913.9  |
| 152.5° | 933.6  | 933.9  | 934.1  | 933.8  | 933.3  | 932.8  | 932.3  | 931.8  | 932.3  | 932.8  | 933.3  |
| 155°   | 950.2  | 950.7  | 951.0  | 950.9  | 950.7  | 950.6  | 950.4  | 950.2  | 950.4  | 950.6  | 950.7  |
| 157.5° | 965.3  | 966.0  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  |
| 160°   | 977.6  | 977.7  | 977.8  | 978.1  | 978.6  | 979.1  | 979.6  | 980.1  | 979.6  | 979.1  | 978.6  |
| 162.5° | 989.1  | 989.2  | 989.3  | 989.6  | 990.3  | 991.0  | 991.7  | 992.4  | 991.7  | 991.0  | 990.3  |
| 165°   | 998.5  | 998.5  | 998.5  | 998.9  | 999.8  | 1000.7 | 1001.5 | 1002.4 | 1001.5 | 1000.7 | 999.8  |
| 167.5° | 1006.7 | 1006.9 | 1007.0 | 1007.4 | 1008.3 | 1009.1 | 1010.0 | 1010.8 | 1010.0 | 1009.1 | 1008.3 |
| 170°   | 1013.4 | 1013.2 | 1013.1 | 1013.6 | 1014.6 | 1015.7 | 1016.7 | 1017.7 | 1016.7 | 1015.7 | 1014.6 |
| 172.5° | 1018.0 | 1017.8 | 1017.7 | 1018.2 | 1019.2 | 1020.3 | 1021.3 | 1022.3 | 1021.3 | 1020.3 | 1019.2 |
| 175°   | 1021.0 | 1020.9 | 1020.8 | 1021.3 | 1022.3 | 1023.4 | 1024.4 | 1025.4 | 1024.4 | 1023.4 | 1022.3 |
| 177.5° | 1022.8 | 1022.5 | 1022.3 | 1022.9 | 1024.1 | 1025.3 | 1026.5 | 1027.7 | 1026.5 | 1025.3 | 1024.1 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 574.4 | 574.4  | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 |
| 2.5°   | 565.1 | 564.2  | 563.3 | 559.6 | 556.3 | 550.8 | 546.2 | 544.3 | 543.8 | 544.3 | 542.9 |
| 5°     | 548.9 | 548.5  | 545.2 | 538.8 | 532.7 | 526.3 | 521.6 | 517.0 | 514.2 | 514.2 | 511.0 |
| 7.5°   | 533.7 | 530.4  | 527.6 | 519.3 | 512.4 | 503.6 | 496.6 | 492.5 | 490.2 | 485.1 | 485.1 |
| 10°    | 517.5 | 512.8  | 509.1 | 501.3 | 491.1 | 482.3 | 473.5 | 468.4 | 464.2 | 460.5 | 459.1 |
| 12.5°  | 501.3 | 497.6  | 490.6 | 482.3 | 472.1 | 461.0 | 451.7 | 448.0 | 438.3 | 430.4 | 430.9 |
| 15°    | 486.0 | 477.7  | 474.4 | 462.4 | 450.4 | 439.7 | 426.3 | 415.6 | 407.8 | 402.7 | 396.2 |
| 17.5°  | 468.9 | 460.5  | 454.5 | 444.3 | 428.6 | 411.9 | 399.0 | 384.6 | 376.8 | 368.0 | 363.8 |
| 20°    | 449.9 | 442.9  | 438.3 | 422.1 | 403.1 | 383.2 | 368.9 | 360.1 | 351.3 | 344.8 | 341.1 |
| 22.5°  | 433.7 | 424.9  | 419.3 | 397.6 | 376.8 | 356.9 | 345.7 | 338.3 | 330.9 | 325.4 | 323.5 |
| 25°    | 412.9 | 407.8  | 394.3 | 375.4 | 349.9 | 336.5 | 326.8 | 317.1 | 312.9 | 309.2 | 305.0 |
| 27.5°  | 395.7 | 383.2  | 374.0 | 349.0 | 333.3 | 318.0 | 308.3 | 300.9 | 295.8 | 292.1 | 288.8 |
| 30°    | 374.4 | 362.9  | 349.9 | 329.1 | 314.7 | 300.4 | 291.6 | 285.6 | 280.0 | 277.7 | 274.9 |
| 32.5°  | 352.2 | 341.6  | 329.1 | 312.4 | 294.8 | 283.7 | 276.8 | 270.3 | 266.6 | 264.3 | 261.0 |
| 35°    | 332.3 | 318.9  | 310.6 | 294.8 | 280.5 | 268.0 | 261.5 | 256.0 | 251.8 | 250.9 | 250.4 |
| 37.5°  | 311.0 | 300.9  | 293.0 | 276.8 | 264.7 | 254.1 | 248.1 | 242.1 | 239.8 | 239.3 | 237.4 |
| 40°    | 292.5 | 283.7  | 276.3 | 261.0 | 248.1 | 238.4 | 233.7 | 230.0 | 227.7 | 227.7 | 227.3 |
| 42.5°  | 276.3 | 267.1  | 259.7 | 245.8 | 234.2 | 225.4 | 220.3 | 216.6 | 215.7 | 216.1 | 215.7 |
| 45°    | 258.3 | 250.4  | 243.0 | 228.6 | 218.9 | 212.4 | 206.9 | 205.0 | 203.7 | 204.1 | 204.6 |
| 47.5°  | 241.1 | 234.7  | 227.3 | 215.7 | 204.6 | 197.6 | 194.4 | 192.5 | 192.5 | 192.5 | 193.5 |
| 50°    | 225.9 | 218.5  | 212.0 | 200.0 | 189.8 | 184.2 | 181.4 | 179.1 | 179.6 | 180.0 | 180.5 |
| 52.5°  | 207.8 | 201.3  | 196.7 | 184.7 | 177.3 | 170.3 | 167.1 | 167.6 | 167.1 | 167.1 | 168.0 |
| 55°    | 192.1 | 185.6  | 181.0 | 169.9 | 162.5 | 157.8 | 155.1 | 153.7 | 154.1 | 153.2 | 155.1 |
| 57.5°  | 174.5 | 168.9  | 165.7 | 155.1 | 148.6 | 144.4 | 142.1 | 139.8 | 140.7 | 140.2 | 139.8 |
| 60°    | 159.2 | 152.7  | 147.6 | 140.2 | 134.7 | 129.6 | 128.2 | 125.9 | 126.8 | 125.9 | 125.4 |
| 62.5°  | 141.6 | 136.5  | 132.8 | 125.4 | 120.8 | 116.6 | 113.4 | 112.0 | 111.5 | 110.2 | 108.8 |
| 65°    | 124.0 | 121.3  | 117.6 | 110.2 | 105.5 | 102.3 | 100.4 | 99.0  | 98.6  | 94.9  | 90.7  |
| 67.5°  | 107.8 | 106.0  | 102.3 | 96.7  | 92.6  | 89.3  | 86.6  | 84.2  | 81.5  | 78.7  | 76.4  |
| 70°    | 92.6  | 89.8   | 87.5  | 82.4  | 78.7  | 75.4  | 72.7  | 69.9  | 68.5  | 65.7  | 64.8  |
| 72.5°  | 77.8  | 75.0   | 72.7  | 68.0  | 64.8  | 61.6  | 60.6  | 57.4  | 56.0  | 55.5  | 55.5  |
| 75°    | 62.5  | 60.2   | 58.8  | 54.6  | 51.8  | 49.5  | 48.1  | 47.2  | 46.3  | 45.4  | 44.0  |
| 77.5°  | 47.7  | 46.3   | 45.4  | 42.6  | 40.3  | 38.9  | 38.4  | 35.2  | 34.3  | 33.3  | 32.4  |
| 80°    | 34.7  | 34.3   | 33.3  | 31.0  | 30.1  | 26.8  | 26.8  | 25.9  | 25.5  | 25.5  | 25.5  |
| 82.5°  | 23.6  | 22.7   | 22.2  | 19.9  | 19.4  | 19.0  | 18.5  | 18.1  | 18.5  | 18.1  | 18.5  |
| 85°    | 12.5  | 12.0   | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.1  | 11.6  |
| 87.5°  | 4.6   | 4.6    | 4.6   | 4.6   | 4.2   | 4.6   | 4.6   | 4.2   | 4.6   | 4.6   | 4.6   |
| 90°    | 9.8   | 10.7   | 11.4  | 12.8  | 14.1  | 15.5  | 16.9  | 17.9  | 18.9  | 20.0  | 21.0  |
| 92.5°  | 10.2  | 10.0   | 10.7  | 12.0  | 13.4  | 14.7  | 16.1  | 17.1  | 18.1  | 19.2  | 20.2  |
| 95°    | 19.0  | 16.1   | 16.2  | 16.4  | 16.5  | 16.7  | 16.9  | 17.9  | 18.9  | 20.0  | 21.0  |
| 97.5°  | 95.5  | 97.4   | 88.5  | 70.6  | 52.7  | 34.8  | 16.9  | 17.7  | 18.6  | 19.4  | 20.3  |
| 100°   | 138.1 | 139.6  | 127.8 | 104.3 | 80.8  | 57.2  | 33.7  | 30.8  | 27.9  | 25.0  | 22.1  |
| 102.5° | 184.6 | 185.6  | 186.6 | 188.7 | 190.7 | 192.8 | 194.8 | 156.4 | 118.1 | 79.7  | 41.4  |
| 105°   | 234.9 | 235.4  | 235.8 | 236.7 | 237.6 | 238.4 | 239.3 | 240.8 | 242.4 | 243.9 | 245.4 |
| 107.5° | 282.7 | 283.0  | 283.6 | 284.8 | 286.0 | 287.2 | 288.4 | 289.2 | 290.1 | 290.9 | 291.8 |
| 110°   | 333.3 | 333.6  | 334.1 | 335.1 | 336.2 | 337.2 | 338.2 | 338.5 | 338.9 | 339.2 | 339.5 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 384.5  | 385.0  | 385.2  | 385.5  | 385.8  | 386.2  | 386.5  | 386.3  | 386.2  | 386.0  | 385.9  |
| 115°   | 433.0  | 433.3  | 433.2  | 433.0  | 432.9  | 432.7  | 432.5  | 432.9  | 433.2  | 433.6  | 433.9  |
| 117.5° | 479.0  | 479.3  | 479.6  | 480.1  | 480.6  | 481.1  | 481.6  | 481.4  | 481.3  | 481.1  | 481.0  |
| 120°   | 525.0  | 525.3  | 525.2  | 525.1  | 524.9  | 524.8  | 524.6  | 524.9  | 525.3  | 525.6  | 525.9  |
| 122.5° | 566.6  | 566.8  | 567.0  | 567.3  | 567.6  | 568.0  | 568.3  | 568.5  | 568.7  | 568.8  | 569.0  |
| 125°   | 608.6  | 608.9  | 608.7  | 608.4  | 608.1  | 607.7  | 607.4  | 607.9  | 608.4  | 608.9  | 609.4  |
| 127.5° | 645.7  | 645.8  | 646.2  | 647.1  | 647.9  | 648.8  | 649.6  | 649.4  | 649.2  | 649.1  | 648.9  |
| 130°   | 683.2  | 683.3  | 683.6  | 684.1  | 684.6  | 685.1  | 685.6  | 685.8  | 686.0  | 686.1  | 686.3  |
| 132.5° | 718.4  | 718.6  | 718.9  | 719.6  | 720.3  | 721.0  | 721.7  | 721.9  | 722.0  | 722.2  | 722.3  |
| 135°   | 750.9  | 750.8  | 751.1  | 751.8  | 752.5  | 753.2  | 753.9  | 754.2  | 754.6  | 754.9  | 755.2  |
| 137.5° | 782.3  | 782.3  | 782.7  | 783.6  | 784.4  | 785.3  | 786.1  | 786.4  | 786.8  | 787.1  | 787.4  |
| 140°   | 813.5  | 813.7  | 813.9  | 814.2  | 814.5  | 814.9  | 815.2  | 815.7  | 816.2  | 816.7  | 817.2  |
| 142.5° | 841.8  | 842.1  | 842.2  | 842.4  | 842.5  | 842.7  | 842.9  | 843.2  | 843.6  | 843.9  | 844.2  |
| 145°   | 868.6  | 868.9  | 868.9  | 868.9  | 868.9  | 868.9  | 868.9  | 869.1  | 869.3  | 869.4  | 869.6  |
| 147.5° | 892.2  | 892.7  | 892.6  | 892.4  | 892.3  | 892.1  | 891.9  | 892.1  | 892.3  | 892.4  | 892.6  |
| 150°   | 914.6  | 914.9  | 914.8  | 914.7  | 914.5  | 914.4  | 914.2  | 914.2  | 914.2  | 914.2  | 914.2  |
| 152.5° | 933.8  | 934.1  | 933.9  | 933.6  | 933.3  | 932.9  | 932.6  | 932.9  | 933.3  | 933.6  | 933.9  |
| 155°   | 950.9  | 951.0  | 950.7  | 950.2  | 949.7  | 949.2  | 948.7  | 949.4  | 950.1  | 950.8  | 951.5  |
| 157.5° | 966.3  | 966.3  | 966.0  | 965.3  | 964.6  | 964.0  | 963.3  | 964.1  | 965.0  | 965.8  | 966.7  |
| 160°   | 978.1  | 977.8  | 977.7  | 977.6  | 977.4  | 977.3  | 977.1  | 978.1  | 979.1  | 980.2  | 981.2  |
| 162.5° | 989.6  | 989.3  | 989.2  | 989.1  | 988.9  | 988.8  | 988.6  | 989.6  | 990.6  | 991.7  | 992.7  |
| 165°   | 998.9  | 998.5  | 998.5  | 998.5  | 998.5  | 998.5  | 998.5  | 999.9  | 1001.3 | 1002.6 | 1004.0 |
| 167.5° | 1007.4 | 1007.0 | 1006.9 | 1006.7 | 1006.6 | 1006.4 | 1006.2 | 1007.7 | 1009.3 | 1010.8 | 1012.3 |
| 170°   | 1013.6 | 1013.1 | 1013.2 | 1013.4 | 1013.5 | 1013.7 | 1013.9 | 1015.3 | 1016.6 | 1018.0 | 1019.3 |
| 172.5° | 1018.2 | 1017.7 | 1017.8 | 1018.0 | 1018.1 | 1018.3 | 1018.5 | 1019.9 | 1021.2 | 1022.6 | 1023.9 |
| 175°   | 1021.3 | 1020.8 | 1020.9 | 1021.0 | 1021.2 | 1021.3 | 1021.5 | 1023.0 | 1024.6 | 1026.1 | 1027.6 |
| 177.5° | 1022.9 | 1022.3 | 1022.5 | 1022.8 | 1023.1 | 1023.5 | 1023.8 | 1025.2 | 1026.6 | 1027.9 | 1029.3 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 574.4  | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4  |
| 2.5°   | 542.9  | 544.8 | 542.5 | 543.8 | 540.6 | 540.1 | 540.6 | 540.6 | 541.1 | 541.5 | 542.0  |
| 5°     | 512.4  | 511.9 | 509.1 | 507.3 | 505.9 | 507.3 | 508.2 | 509.1 | 508.2 | 509.1 | 509.6  |
| 7.5°   | 483.7  | 482.3 | 480.9 | 477.7 | 478.6 | 477.7 | 480.4 | 479.0 | 479.0 | 481.4 | 483.2  |
| 10°    | 458.2  | 455.4 | 454.5 | 450.8 | 448.0 | 447.6 | 450.8 | 452.2 | 453.6 | 454.5 | 458.2  |
| 12.5°  | 425.4  | 421.2 | 418.0 | 419.3 | 411.5 | 414.7 | 415.6 | 413.8 | 419.3 | 425.8 | 422.1  |
| 15°    | 390.2  | 390.6 | 384.2 | 381.8 | 375.4 | 377.2 | 377.7 | 382.3 | 386.9 | 386.5 | 392.0  |
| 17.5°  | 364.3  | 361.5 | 355.9 | 355.5 | 352.7 | 354.1 | 353.6 | 357.3 | 355.9 | 358.2 | 362.9  |
| 20°    | 340.2  | 338.3 | 333.7 | 331.9 | 332.8 | 331.9 | 332.3 | 332.8 | 334.2 | 339.3 | 338.3  |
| 22.5°  | 321.2  | 318.9 | 318.9 | 316.6 | 313.8 | 312.9 | 315.2 | 316.6 | 318.4 | 319.4 | 321.7  |
| 25°    | 304.6  | 302.7 | 300.4 | 299.0 | 296.7 | 297.1 | 298.5 | 300.4 | 301.8 | 303.6 | 305.5  |
| 27.5°  | 287.4  | 287.4 | 285.1 | 284.7 | 283.7 | 283.3 | 285.1 | 286.0 | 286.0 | 287.4 | 289.3  |
| 30°    | 274.0  | 274.0 | 271.7 | 271.2 | 270.8 | 270.8 | 272.2 | 272.6 | 273.1 | 274.5 | 275.4  |
| 32.5°  | 261.0  | 260.6 | 259.7 | 260.1 | 259.7 | 260.1 | 260.1 | 260.6 | 261.5 | 262.0 | 263.8  |
| 35°    | 249.0  | 249.5 | 248.5 | 248.5 | 248.1 | 248.5 | 249.5 | 249.9 | 250.4 | 251.3 | 251.3  |
| 37.5°  | 237.4  | 238.4 | 237.9 | 239.3 | 239.3 | 239.3 | 239.3 | 240.2 | 240.2 | 240.2 | 239.8  |
| 40°    | 227.3  | 227.3 | 226.8 | 227.7 | 228.6 | 228.6 | 229.1 | 229.1 | 229.6 | 229.6 | 229.1  |
| 42.5°  | 215.7  | 216.6 | 218.0 | 218.5 | 219.4 | 218.9 | 220.3 | 219.9 | 220.3 | 219.4 | 218.5  |
| 45°    | 205.0  | 205.0 | 206.9 | 208.7 | 209.2 | 209.2 | 209.2 | 210.1 | 209.2 | 207.8 | 207.4  |
| 47.5°  | 193.5  | 194.4 | 195.3 | 197.6 | 198.1 | 198.1 | 198.1 | 198.1 | 197.2 | 197.2 | 197.2  |
| 50°    | 181.9  | 182.4 | 182.8 | 183.8 | 185.1 | 184.7 | 184.7 | 184.7 | 186.5 | 184.7 | 185.1  |
| 52.5°  | 168.0  | 168.5 | 168.9 | 170.8 | 170.3 | 170.3 | 170.8 | 170.8 | 172.2 | 171.7 | 170.8  |
| 55°    | 154.1  | 154.1 | 155.1 | 155.1 | 155.1 | 156.0 | 156.4 | 157.4 | 156.9 | 157.4 | 157.8  |
| 57.5°  | 140.2  | 139.3 | 138.9 | 138.9 | 140.2 | 139.8 | 140.2 | 140.2 | 142.1 | 143.0 | 143.5  |
| 60°    | 124.0  | 124.0 | 123.6 | 120.8 | 120.8 | 120.3 | 121.7 | 122.7 | 123.6 | 127.7 | 127.3  |
| 62.5°  | 107.4  | 105.5 | 103.7 | 104.1 | 101.4 | 102.8 | 101.8 | 102.8 | 105.5 | 108.8 | 109.2  |
| 65°    | 90.7   | 89.3  | 87.5  | 87.0  | 86.1  | 87.5  | 87.0  | 87.5  | 88.9  | 90.7  | 93.0   |
| 67.5°  | 75.9   | 75.4  | 74.5  | 74.1  | 74.1  | 74.1  | 75.0  | 75.0  | 75.4  | 76.8  | 78.2   |
| 70°    | 64.8   | 64.3  | 64.8  | 63.9  | 64.3  | 63.9  | 64.3  | 64.8  | 65.3  | 65.7  | 67.1   |
| 72.5°  | 54.6   | 54.6  | 54.6  | 53.7  | 54.6  | 54.2  | 54.2  | 54.6  | 55.1  | 55.5  | 56.5   |
| 75°    | 43.5   | 42.6  | 41.7  | 40.7  | 40.3  | 41.2  | 41.7  | 41.2  | 42.6  | 44.4  | 44.4   |
| 77.5°  | 32.9   | 32.4  | 32.4  | 32.4  | 32.9  | 32.4  | 33.3  | 32.9  | 33.3  | 33.3  | 34.3   |
| 80°    | 25.5   | 25.0  | 25.5  | 25.5  | 25.0  | 25.9  | 25.5  | 25.5  | 25.9  | 26.4  | 25.9   |
| 82.5°  | 18.5   | 19.0  | 18.5  | 18.5  | 18.5  | 19.4  | 18.5  | 18.5  | 18.5  | 19.0  | 19.0   |
| 85°    | 11.6   | 11.6  | 11.6  | 11.6  | 12.0  | 11.6  | 12.0  | 11.6  | 12.5  | 12.0  | 12.0   |
| 87.5°  | 4.2    | 4.6   | 5.1   | 5.1   | 5.1   | 5.1   | 4.6   | 5.1   | 5.6   | 5.1   | 5.6    |
| 90°    | 21.5   | 21.7  | 22.0  | 22.3  | 22.7  | 23.0  | 22.7  | 22.3  | 22.0  | 21.7  | 21.5   |
| 92.5°  | 20.7   | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7   |
| 95°    | 21.5   | 21.6  | 21.7  | 21.9  | 22.0  | 22.2  | 22.0  | 21.9  | 21.7  | 21.6  | 21.5   |
| 97.5°  | 20.7   | 20.8  | 21.0  | 21.1  | 21.3  | 21.5  | 21.3  | 21.1  | 21.0  | 20.8  | 20.7   |
| 100°   | 20.7   | 20.8  | 21.0  | 21.1  | 21.3  | 21.5  | 21.3  | 21.1  | 21.0  | 20.8  | 20.7   |
| 102.5° | 22.2   | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2   |
| 105°   | 246.2  | 243.1 | 237.0 | 230.9 | 224.7 | 218.6 | 224.7 | 230.9 | 237.0 | 243.1 | 246.2  |
| 107.5° | 292.2  | 292.5 | 293.2 | 293.9 | 294.6 | 295.3 | 294.6 | 293.9 | 293.2 | 292.5 | 292.2  |
| 110°   | 339.7  | 340.0 | 340.5 | 341.0 | 341.5 | 342.0 | 341.5 | 341.0 | 340.5 | 340.0 | 339.7  |



TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 385.8  | 386.1  | 386.8  | 387.5  | 388.1  | 388.8  | 388.1  | 387.5  | 386.8  | 386.1  | 385.8  |
| 115°   | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  | 434.1  |
| 117.5° | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  | 480.9  |
| 120°   | 526.1  | 525.9  | 525.6  | 525.3  | 524.9  | 524.6  | 524.9  | 525.3  | 525.6  | 525.9  | 526.1  |
| 122.5° | 569.1  | 568.9  | 568.6  | 568.2  | 567.9  | 567.5  | 567.9  | 568.2  | 568.6  | 568.9  | 569.1  |
| 125°   | 609.7  | 609.8  | 610.0  | 610.1  | 610.3  | 610.5  | 610.3  | 610.1  | 610.0  | 609.8  | 609.7  |
| 127.5° | 648.8  | 648.7  | 648.6  | 648.4  | 648.3  | 648.1  | 648.3  | 648.4  | 648.6  | 648.7  | 648.8  |
| 130°   | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  | 686.4  |
| 132.5° | 722.4  | 722.3  | 722.2  | 722.0  | 721.9  | 721.7  | 721.9  | 722.0  | 722.2  | 722.3  | 722.4  |
| 135°   | 755.4  | 755.6  | 755.9  | 756.3  | 756.6  | 757.0  | 756.6  | 756.3  | 755.9  | 755.6  | 755.4  |
| 137.5° | 787.6  | 787.5  | 787.4  | 787.2  | 787.1  | 786.9  | 787.1  | 787.2  | 787.4  | 787.5  | 787.6  |
| 140°   | 817.5  | 817.6  | 817.8  | 817.9  | 818.1  | 818.3  | 818.1  | 817.9  | 817.8  | 817.6  | 817.5  |
| 142.5° | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  | 844.4  |
| 145°   | 869.7  | 869.9  | 870.2  | 870.5  | 870.9  | 871.2  | 870.9  | 870.5  | 870.2  | 869.9  | 869.7  |
| 147.5° | 892.7  | 892.8  | 893.0  | 893.1  | 893.3  | 893.5  | 893.3  | 893.1  | 893.0  | 892.8  | 892.7  |
| 150°   | 914.2  | 914.3  | 914.4  | 914.6  | 914.7  | 914.9  | 914.7  | 914.6  | 914.4  | 914.3  | 914.2  |
| 152.5° | 934.1  | 934.0  | 933.8  | 933.7  | 933.5  | 933.3  | 933.5  | 933.7  | 933.8  | 934.0  | 934.1  |
| 155°   | 951.8  | 951.5  | 951.0  | 950.5  | 950.0  | 949.5  | 950.0  | 950.5  | 951.0  | 951.5  | 951.8  |
| 157.5° | 967.1  | 966.7  | 965.8  | 965.0  | 964.1  | 963.3  | 964.1  | 965.0  | 965.8  | 966.7  | 967.1  |
| 160°   | 981.7  | 981.2  | 980.2  | 979.1  | 978.1  | 977.1  | 978.1  | 979.1  | 980.2  | 981.2  | 981.7  |
| 162.5° | 993.2  | 992.6  | 991.4  | 990.2  | 989.0  | 987.8  | 989.0  | 990.2  | 991.4  | 992.6  | 993.2  |
| 165°   | 1004.7 | 1003.9 | 1002.4 | 1000.9 | 999.3  | 997.8  | 999.3  | 1000.9 | 1002.4 | 1003.9 | 1004.7 |
| 167.5° | 1013.1 | 1012.2 | 1010.5 | 1008.8 | 1007.1 | 1005.4 | 1007.1 | 1008.8 | 1010.5 | 1012.2 | 1013.1 |
| 170°   | 1020.0 | 1019.1 | 1017.4 | 1015.7 | 1014.0 | 1012.3 | 1014.0 | 1015.7 | 1017.4 | 1019.1 | 1020.0 |
| 172.5° | 1024.6 | 1023.7 | 1021.8 | 1019.9 | 1018.1 | 1016.2 | 1018.1 | 1019.9 | 1021.8 | 1023.7 | 1024.6 |
| 175°   | 1028.4 | 1027.4 | 1025.3 | 1023.3 | 1021.2 | 1019.2 | 1021.2 | 1023.3 | 1025.3 | 1027.4 | 1028.4 |
| 177.5° | 1030.0 | 1029.0 | 1026.9 | 1024.9 | 1022.8 | 1020.8 | 1022.8 | 1024.9 | 1026.9 | 1029.0 | 1030.0 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4  | 574.4 |
| 2.5°   | 543.8 | 546.2 | 545.2 | 542.0 | 543.4 | 546.2 | 548.9 | 552.6 | 555.0 | 556.8  | 557.7 |
| 5°     | 511.9 | 516.1 | 515.1 | 515.1 | 517.0 | 521.6 | 526.3 | 534.1 | 536.9 | 540.1  | 544.8 |
| 7.5°   | 483.7 | 486.9 | 489.7 | 490.6 | 493.4 | 499.4 | 505.4 | 514.2 | 521.2 | 524.9  | 527.6 |
| 10°    | 458.7 | 461.0 | 465.2 | 467.5 | 470.3 | 477.7 | 486.5 | 495.7 | 502.7 | 509.1  | 512.8 |
| 12.5°  | 426.7 | 436.0 | 441.6 | 445.3 | 449.0 | 460.1 | 467.0 | 477.2 | 485.5 | 491.5  | 497.1 |
| 15°    | 391.1 | 402.2 | 405.5 | 419.8 | 429.1 | 437.9 | 448.5 | 460.5 | 468.4 | 475.3  | 482.7 |
| 17.5°  | 361.0 | 368.9 | 372.6 | 387.9 | 395.7 | 409.6 | 424.9 | 440.2 | 452.2 | 457.3  | 464.7 |
| 20°    | 342.0 | 346.2 | 353.6 | 358.7 | 367.0 | 383.2 | 399.9 | 418.4 | 436.5 | 441.6  | 449.0 |
| 22.5°  | 322.6 | 328.2 | 333.3 | 340.2 | 346.7 | 357.8 | 374.4 | 394.8 | 414.2 | 423.5  | 432.3 |
| 25°    | 305.0 | 310.6 | 313.8 | 321.2 | 327.2 | 338.3 | 349.9 | 370.7 | 393.9 | 401.8  | 415.6 |
| 27.5°  | 291.1 | 294.4 | 299.9 | 303.2 | 310.1 | 320.3 | 330.9 | 346.7 | 369.4 | 382.8  | 396.2 |
| 30°    | 277.2 | 279.6 | 284.2 | 288.8 | 293.9 | 300.9 | 312.9 | 328.2 | 349.0 | 360.6  | 374.0 |
| 32.5°  | 263.4 | 267.1 | 269.8 | 273.1 | 278.6 | 287.0 | 295.3 | 310.1 | 326.8 | 339.7  | 353.2 |
| 35°    | 251.8 | 253.2 | 256.9 | 260.6 | 264.3 | 271.7 | 280.5 | 294.8 | 309.6 | 319.8  | 331.9 |
| 37.5°  | 239.3 | 241.6 | 244.4 | 245.8 | 251.8 | 256.4 | 265.7 | 276.8 | 294.4 | 300.9  | 312.9 |
| 40°    | 229.6 | 229.1 | 231.9 | 234.2 | 237.0 | 244.4 | 249.9 | 262.0 | 275.9 | 286.0  | 293.4 |
| 42.5°  | 217.5 | 217.5 | 218.5 | 221.2 | 224.9 | 229.6 | 236.1 | 246.2 | 260.6 | 268.0  | 276.8 |
| 45°    | 207.8 | 206.4 | 206.9 | 208.7 | 211.1 | 215.7 | 222.2 | 231.0 | 245.3 | 251.3  | 260.6 |
| 47.5°  | 196.2 | 194.9 | 194.9 | 196.7 | 198.6 | 201.8 | 206.9 | 217.1 | 228.6 | 236.5  | 243.5 |
| 50°    | 183.3 | 183.8 | 183.3 | 184.7 | 185.6 | 188.8 | 194.4 | 202.7 | 213.4 | 219.9  | 227.7 |
| 52.5°  | 171.3 | 170.3 | 169.9 | 170.8 | 172.6 | 175.0 | 181.0 | 188.4 | 198.6 | 205.0  | 212.0 |
| 55°    | 156.4 | 157.4 | 157.4 | 157.4 | 160.1 | 161.1 | 165.7 | 173.1 | 183.3 | 188.4  | 194.9 |
| 57.5°  | 143.0 | 142.6 | 143.5 | 143.0 | 145.3 | 148.6 | 152.3 | 157.8 | 168.0 | 173.1  | 179.1 |
| 60°    | 128.2 | 128.7 | 129.1 | 129.1 | 131.0 | 134.2 | 138.4 | 143.5 | 151.8 | 156.9  | 162.5 |
| 62.5°  | 110.2 | 112.5 | 114.8 | 115.7 | 118.5 | 120.8 | 123.6 | 129.1 | 136.5 | 140.2  | 145.3 |
| 65°    | 93.0  | 96.3  | 99.5  | 101.8 | 103.7 | 106.0 | 109.7 | 114.8 | 120.8 | 124.5  | 129.6 |
| 67.5°  | 78.2  | 80.5  | 84.7  | 87.0  | 90.7  | 93.5  | 95.8  | 100.0 | 107.4 | 108.8  | 112.9 |
| 70°    | 67.6  | 68.5  | 70.4  | 72.2  | 76.4  | 78.7  | 81.5  | 85.6  | 91.2  | 94.4   | 96.7  |
| 72.5°  | 56.9  | 57.4  | 58.3  | 60.2  | 62.0  | 64.8  | 68.0  | 71.7  | 76.8  | 78.2   | 81.5  |
| 75°    | 45.4  | 48.1  | 48.1  | 49.5  | 50.9  | 52.3  | 55.1  | 58.8  | 62.0  | 64.3   | 66.2  |
| 77.5°  | 33.8  | 35.2  | 36.1  | 38.4  | 40.3  | 41.7  | 43.5  | 46.3  | 48.1  | 50.0   | 51.4  |
| 80°    | 26.4  | 26.8  | 27.3  | 27.3  | 28.2  | 30.1  | 31.9  | 33.8  | 36.1  | 37.0   | 38.4  |
| 82.5°  | 19.4  | 19.4  | 19.4  | 20.4  | 20.8  | 21.3  | 21.3  | 22.2  | 24.5  | 25.5   | 26.8  |
| 85°    | 12.5  | 12.5  | 12.5  | 12.5  | 13.0  | 13.4  | 13.9  | 14.3  | 14.3  | 14.3   | 15.3  |
| 87.5°  | 5.1   | 6.0   | 5.6   | 6.0   | 6.0   | 6.0   | 6.0   | 6.5   | 6.5   | 6.9    | 6.9   |
| 90°    | 21.0  | 20.0  | 18.9  | 17.9  | 16.9  | 15.5  | 14.1  | 12.8  | 11.4  | 10.7   | 9.8   |
| 92.5°  | 20.2  | 19.2  | 18.1  | 17.1  | 16.1  | 14.7  | 13.4  | 12.0  | 10.7  | 10.0   | 10.2  |
| 95°    | 21.0  | 20.0  | 18.9  | 17.9  | 16.9  | 16.7  | 16.5  | 16.4  | 16.2  | 16.1   | 19.0  |
| 97.5°  | 20.3  | 19.4  | 18.6  | 17.7  | 16.9  | 34.8  | 52.7  | 70.6  | 88.5  | 97.4   | 95.5  |
| 100°   | 22.1  | 25.0  | 27.9  | 30.8  | 33.7  | 57.2  | 80.8  | 104.3 | 127.8 | 139.6  | 138.1 |
| 102.5° | 41.4  | 79.7  | 118.1 | 156.4 | 194.8 | 192.8 | 190.7 | 188.7 | 186.6 | 185.6  | 184.6 |
| 105°   | 245.4 | 243.9 | 242.4 | 240.8 | 239.3 | 238.4 | 237.6 | 236.7 | 235.8 | 235.4  | 234.9 |
| 107.5° | 291.8 | 290.9 | 290.1 | 289.2 | 288.4 | 287.2 | 286.0 | 284.8 | 283.6 | 283.0  | 282.7 |
| 110°   | 339.5 | 339.2 | 338.9 | 338.5 | 338.2 | 337.2 | 336.2 | 335.1 | 334.1 | 333.6  | 333.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 385.9  | 386.0  | 386.2  | 386.3  | 386.5  | 386.2  | 385.8  | 385.5  | 385.2  | 385.0  | 384.5  |
| 115°   | 433.9  | 433.6  | 433.2  | 432.9  | 432.5  | 432.7  | 432.9  | 433.0  | 433.2  | 433.3  | 433.0  |
| 117.5° | 481.0  | 481.1  | 481.3  | 481.4  | 481.6  | 481.1  | 480.6  | 480.1  | 479.6  | 479.3  | 479.0  |
| 120°   | 525.9  | 525.6  | 525.3  | 524.9  | 524.6  | 524.8  | 524.9  | 525.1  | 525.2  | 525.3  | 525.0  |
| 122.5° | 569.0  | 568.8  | 568.7  | 568.5  | 568.3  | 568.0  | 567.6  | 567.3  | 567.0  | 566.8  | 566.6  |
| 125°   | 609.4  | 608.9  | 608.4  | 607.9  | 607.4  | 607.7  | 608.1  | 608.4  | 608.7  | 608.9  | 608.6  |
| 127.5° | 648.9  | 649.1  | 649.2  | 649.4  | 649.6  | 648.8  | 647.9  | 647.1  | 646.2  | 645.8  | 645.7  |
| 130°   | 686.3  | 686.1  | 686.0  | 685.8  | 685.6  | 685.1  | 684.6  | 684.1  | 683.6  | 683.3  | 683.2  |
| 132.5° | 722.3  | 722.2  | 722.0  | 721.9  | 721.7  | 721.0  | 720.3  | 719.6  | 718.9  | 718.6  | 718.4  |
| 135°   | 755.2  | 754.9  | 754.6  | 754.2  | 753.9  | 753.2  | 752.5  | 751.8  | 751.1  | 750.8  | 750.9  |
| 137.5° | 787.4  | 787.1  | 786.8  | 786.4  | 786.1  | 785.3  | 784.4  | 783.6  | 782.7  | 782.3  | 782.3  |
| 140°   | 817.2  | 816.7  | 816.2  | 815.7  | 815.2  | 814.9  | 814.5  | 814.2  | 813.9  | 813.7  | 813.5  |
| 142.5° | 844.2  | 843.9  | 843.6  | 843.2  | 842.9  | 842.7  | 842.5  | 842.4  | 842.2  | 842.1  | 841.8  |
| 145°   | 869.6  | 869.4  | 869.3  | 869.1  | 868.9  | 868.9  | 868.9  | 868.9  | 868.9  | 868.9  | 868.6  |
| 147.5° | 892.6  | 892.4  | 892.3  | 892.1  | 891.9  | 892.1  | 892.3  | 892.4  | 892.6  | 892.7  | 892.2  |
| 150°   | 914.2  | 914.2  | 914.2  | 914.2  | 914.2  | 914.4  | 914.5  | 914.7  | 914.8  | 914.9  | 914.6  |
| 152.5° | 933.9  | 933.6  | 933.3  | 932.9  | 932.6  | 932.9  | 933.3  | 933.6  | 933.9  | 934.1  | 933.8  |
| 155°   | 951.5  | 950.8  | 950.1  | 949.4  | 948.7  | 949.2  | 949.7  | 950.2  | 950.7  | 951.0  | 950.9  |
| 157.5° | 966.7  | 965.8  | 965.0  | 964.1  | 963.3  | 964.0  | 964.6  | 965.3  | 966.0  | 966.3  | 966.3  |
| 160°   | 981.2  | 980.2  | 979.1  | 978.1  | 977.1  | 977.3  | 977.4  | 977.6  | 977.7  | 977.8  | 978.1  |
| 162.5° | 992.7  | 991.7  | 990.6  | 989.6  | 988.6  | 988.8  | 988.9  | 989.1  | 989.2  | 989.3  | 989.6  |
| 165°   | 1004.0 | 1002.6 | 1001.3 | 999.9  | 998.5  | 998.5  | 998.5  | 998.5  | 998.5  | 998.5  | 998.9  |
| 167.5° | 1012.3 | 1010.8 | 1009.3 | 1007.7 | 1006.2 | 1006.4 | 1006.6 | 1006.7 | 1006.9 | 1007.0 | 1007.4 |
| 170°   | 1019.3 | 1018.0 | 1016.6 | 1015.3 | 1013.9 | 1013.7 | 1013.5 | 1013.4 | 1013.2 | 1013.1 | 1013.6 |
| 172.5° | 1023.9 | 1022.6 | 1021.2 | 1019.9 | 1018.5 | 1018.3 | 1018.1 | 1018.0 | 1017.8 | 1017.7 | 1018.2 |
| 175°   | 1027.6 | 1026.1 | 1024.6 | 1023.0 | 1021.5 | 1021.3 | 1021.2 | 1021.0 | 1020.9 | 1020.8 | 1021.3 |
| 177.5° | 1029.3 | 1027.9 | 1026.6 | 1025.2 | 1023.8 | 1023.5 | 1023.1 | 1022.8 | 1022.5 | 1022.3 | 1022.9 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

TEST NUMBER: P1013340

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**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 574.4 | 574.4 | 574.4 | 574.4 |
| 2.5°   | 561.4 | 564.2 | 568.8 | 575.3 |
| 5°     | 548.5 | 556.3 | 563.7 | 573.5 |
| 7.5°   | 536.9 | 546.2 | 556.3 | 570.2 |
| 10°    | 523.5 | 535.1 | 548.0 | 565.1 |
| 12.5°  | 507.7 | 523.9 | 538.8 | 557.3 |
| 15°    | 496.2 | 508.2 | 527.2 | 548.9 |
| 17.5°  | 480.0 | 496.2 | 515.1 | 539.7 |
| 20°    | 464.7 | 481.8 | 503.1 | 528.6 |
| 22.5°  | 448.5 | 467.9 | 489.2 | 516.5 |
| 25°    | 431.8 | 452.7 | 474.0 | 503.1 |
| 27.5°  | 416.6 | 435.5 | 459.6 | 489.2 |
| 30°    | 398.0 | 419.8 | 442.9 | 474.0 |
| 32.5°  | 380.0 | 402.7 | 426.3 | 457.3 |
| 35°    | 360.6 | 383.2 | 409.2 | 438.8 |
| 37.5°  | 341.6 | 366.6 | 390.2 | 418.9 |
| 40°    | 320.8 | 346.7 | 371.2 | 400.4 |
| 42.5°  | 300.4 | 327.2 | 351.8 | 376.8 |
| 45°    | 281.4 | 307.8 | 330.0 | 353.6 |
| 47.5°  | 263.4 | 287.0 | 309.6 | 330.9 |
| 50°    | 245.8 | 265.7 | 286.5 | 304.1 |
| 52.5°  | 227.3 | 246.2 | 262.9 | 278.6 |
| 55°    | 210.6 | 225.4 | 240.2 | 254.6 |
| 57.5°  | 190.7 | 205.5 | 218.5 | 229.6 |
| 60°    | 174.0 | 183.3 | 195.8 | 207.4 |
| 62.5°  | 155.1 | 165.7 | 175.4 | 182.8 |
| 65°    | 136.5 | 145.8 | 153.2 | 159.7 |
| 67.5°  | 120.8 | 126.4 | 131.9 | 138.9 |
| 70°    | 101.8 | 106.5 | 112.9 | 118.0 |
| 72.5°  | 85.6  | 89.3  | 92.6  | 98.6  |
| 75°    | 69.4  | 72.7  | 74.5  | 80.1  |
| 77.5°  | 53.7  | 56.9  | 58.3  | 61.6  |
| 80°    | 41.2  | 41.7  | 43.5  | 46.3  |
| 82.5°  | 28.2  | 29.2  | 29.6  | 31.9  |
| 85°    | 16.2  | 18.5  | 18.1  | 19.0  |
| 87.5°  | 6.9   | 7.4   | 8.3   | 9.3   |
| 90°    | 7.9   | 6.0   | 4.2   | 2.3   |
| 92.5°  | 10.5  | 10.8  | 11.2  | 11.5  |
| 95°    | 24.8  | 30.6  | 36.4  | 42.2  |
| 97.5°  | 91.8  | 88.0  | 84.3  | 80.5  |
| 100°   | 135.0 | 131.9 | 128.9 | 125.8 |
| 102.5° | 182.5 | 180.5 | 178.4 | 176.4 |
| 105°   | 233.9 | 232.8 | 231.8 | 230.8 |
| 107.5° | 282.2 | 281.7 | 281.2 | 280.7 |
| 110°   | 332.8 | 332.3 | 331.8 | 331.3 |

TEST NUMBER: P1013340

CATALOG NUMBER: S124RDIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 383.5  | 382.4  | 381.4  | 380.4  |
| 115°   | 432.5  | 432.0  | 431.5  | 431.0  |
| 117.5° | 478.3  | 477.6  | 477.0  | 476.3  |
| 120°   | 524.3  | 523.6  | 523.0  | 522.3  |
| 122.5° | 566.3  | 565.9  | 565.6  | 565.2  |
| 125°   | 607.9  | 607.2  | 606.6  | 605.9  |
| 127.5° | 645.5  | 645.4  | 645.2  | 645.0  |
| 130°   | 683.1  | 682.9  | 682.8  | 682.6  |
| 132.5° | 718.1  | 717.8  | 717.4  | 717.1  |
| 135°   | 751.1  | 751.2  | 751.4  | 751.6  |
| 137.5° | 782.3  | 782.3  | 782.3  | 782.3  |
| 140°   | 813.2  | 812.9  | 812.5  | 812.2  |
| 142.5° | 841.1  | 840.4  | 839.7  | 839.0  |
| 145°   | 868.1  | 867.6  | 867.1  | 866.6  |
| 147.5° | 891.2  | 890.1  | 889.1  | 888.1  |
| 150°   | 913.9  | 913.2  | 912.6  | 911.9  |
| 152.5° | 933.3  | 932.8  | 932.3  | 931.8  |
| 155°   | 950.7  | 950.6  | 950.4  | 950.2  |
| 157.5° | 966.3  | 966.3  | 966.3  | 966.3  |
| 160°   | 978.6  | 979.1  | 979.6  | 980.1  |
| 162.5° | 990.3  | 991.0  | 991.7  | 992.4  |
| 165°   | 999.8  | 1000.7 | 1001.5 | 1002.4 |
| 167.5° | 1008.3 | 1009.1 | 1010.0 | 1010.8 |
| 170°   | 1014.6 | 1015.7 | 1016.7 | 1017.7 |
| 172.5° | 1019.2 | 1020.3 | 1021.3 | 1022.3 |
| 175°   | 1022.3 | 1023.4 | 1024.4 | 1025.4 |
| 177.5° | 1024.1 | 1025.3 | 1026.5 | 1027.7 |
| 180°   | 1025.4 | 1025.4 | 1025.4 | 1025.4 |

(END OF REPORT)