

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: P1013047

Luminaire Tested: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013047  
REPORT IS A COMBINATION OF REPORTS P995970 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

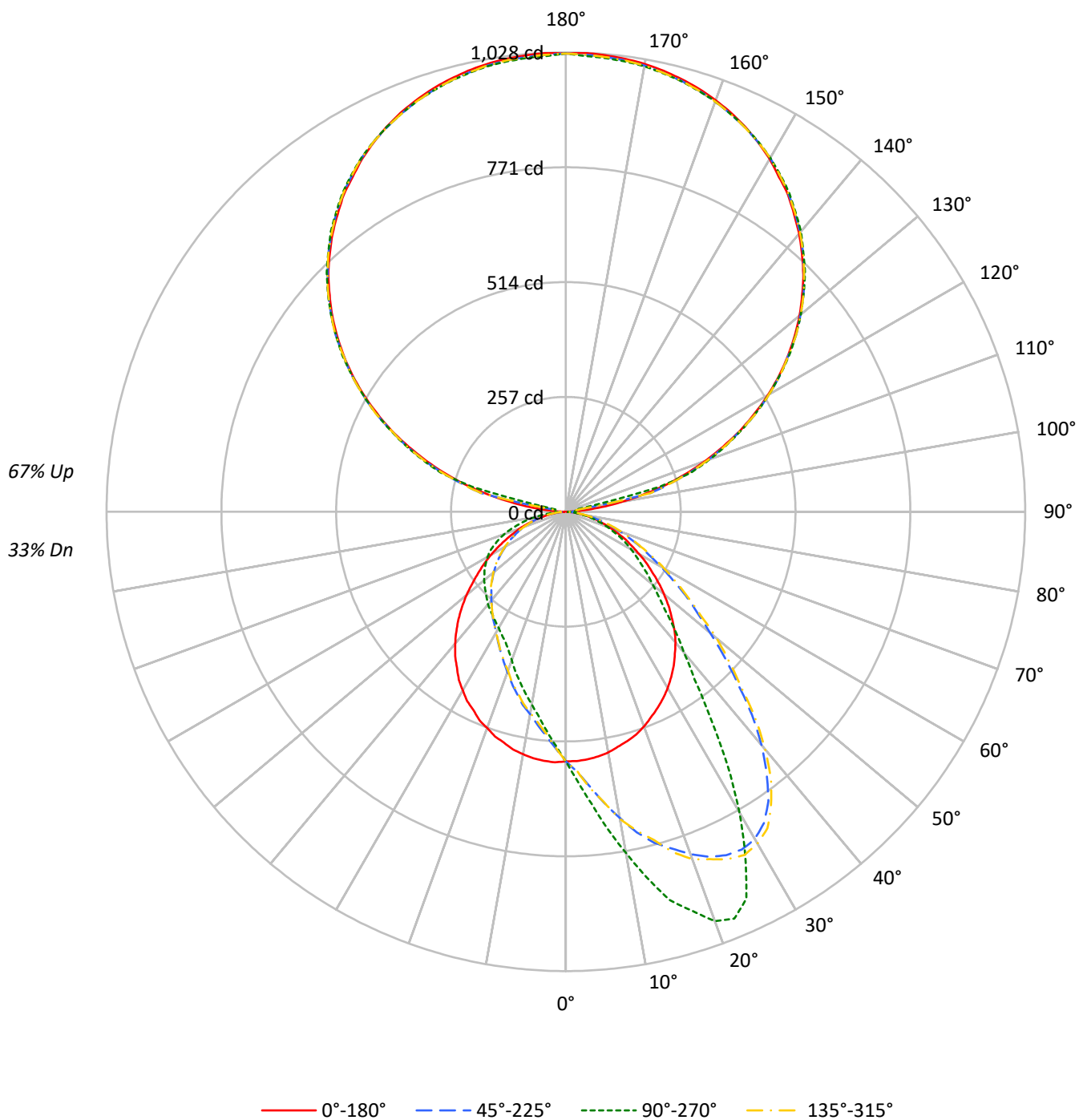
Lumens per Lamp: N/A  
Luminaire Lumens: 4716.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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: P1013047

CATALOG NUMBER: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013047

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 40 | 40 | 33 |
| 1   | 94  | 90  | 86  | 83  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 48 | 47 | 36 | 35 | 34 | 34 | 34 | 28 |
| 2   | 86  | 79  | 73  | 68  | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 41 | 39 | 32 | 30 | 29 | 29 | 29 | 24 |
| 3   | 78  | 69  | 62  | 57  | 70 | 63 | 57 | 52 | 50 | 46 | 42 | 39 | 36 | 34 | 28 | 26 | 25 | 25 | 25 | 20 |
| 4   | 72  | 61  | 54  | 48  | 64 | 55 | 49 | 44 | 45 | 40 | 36 | 35 | 31 | 29 | 25 | 23 | 22 | 22 | 22 | 17 |
| 5   | 66  | 55  | 47  | 41  | 59 | 49 | 43 | 38 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 | 19 | 19 | 15 |
| 6   | 60  | 49  | 41  | 35  | 54 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 25 | 22 | 21 | 18 | 17 | 17 | 17 | 13 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 33 | 29 | 33 | 28 | 24 | 25 | 22 | 19 | 19 | 17 | 15 | 15 | 15 | 12 |
| 8   | 52  | 40  | 32  | 27  | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 13 | 13 | 11 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 14 | 12 | 12 | 12 | 10 |
| 10  | 45  | 33  | 26  | 22  | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 11 | 11 | 9  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4553 | 4553 | 4553 | 4553 |
| 5°  | 4542 | 5224 | 4569 | 3926 |
| 10° | 4509 | 6095 | 4542 | 3444 |
| 15° | 4455 | 7027 | 4486 | 3082 |
| 20° | 4397 | 7620 | 4429 | 2763 |
| 25° | 4313 | 7532 | 4354 | 2527 |
| 30° | 4230 | 6225 | 4282 | 2407 |
| 35° | 4115 | 4639 | 4160 | 2333 |
| 40° | 3980 | 3495 | 4018 | 2297 |
| 45° | 3774 | 2805 | 3821 | 2248 |
| 50° | 3528 | 2363 | 3580 | 2225 |
| 55° | 3240 | 2057 | 3290 | 2199 |
| 60° | 2958 | 1811 | 3045 | 2163 |
| 65° | 2694 | 1559 | 2720 | 2072 |
| 70° | 2385 | 1282 | 2436 | 1909 |
| 75° | 2081 | 985  | 2066 | 1622 |
| 80° | 1637 | 648  | 1616 | 1232 |
| 85° | 1077 | 291  | 1011 | 717  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5888 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.3   | 1.2       |
| 10°-20°   | 167.8  | 3.6       |
| 20°-30°   | 266.5  | 5.7       |
| 30°-40°   | 296.1  | 6.3       |
| 40°-50°   | 269.3  | 5.7       |
| 50°-60°   | 220.1  | 4.7       |
| 60°-70°   | 157.1  | 3.3       |
| 70°-80°   | 86.4   | 1.8       |
| 80°-90°   | 25.5   | 0.5       |
| 90°-100°  | 34.0   | 0.7       |
| 100°-110° | 224.1  | 4.8       |
| 110°-120° | 428.0  | 9.1       |
| 120°-130° | 543.4  | 11.5      |
| 130°-140° | 581.3  | 12.3      |
| 140°-150° | 543.6  | 11.5      |
| 150°-160° | 438.3  | 9.3       |
| 160°-170° | 282.7  | 6.0       |
| 170°-180° | 97.4   | 2.1       |
| 0°-30°    | 488.6  | 10.4      |
| 0°-40°    | 784.7  | 16.6      |
| 0°-60°    | 1274.1 | 27.0      |
| 0°-90°    | 1543.1 | 32.7      |
| 90°-120°  | 686.2  | 14.6      |
| 90°-150°  | 2354.4 | 49.9      |
| 90°-180°  | 3173.0 | 67.3      |
| 0°-180°   | 4716.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 558  | 558  | 558  | 558  | 558  |      |
| 5°   | 556  | 655  | 559  | 492  | 556  | 53   |
| 15°  | 531  | 900  | 535  | 395  | 531  | 150  |
| 25°  | 485  | 955  | 490  | 321  | 485  | 223  |
| 35°  | 421  | 565  | 425  | 284  | 421  | 263  |
| 45°  | 335  | 317  | 340  | 254  | 335  | 259  |
| 55°  | 236  | 207  | 240  | 222  | 236  | 212  |
| 65°  | 147  | 133  | 148  | 177  | 147  | 145  |
| 75°  | 72   | 67   | 72   | 110  | 72   | 76   |
| 85°  | 15   | 14   | 14   | 34   | 15   | 17   |
| 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°     | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 |
| 2.5°   | 558.4 | 564.0 | 566.3 | 568.2 | 574.2 | 576.0 | 576.5 | 579.3 | 581.6 | 582.0 | 582.0 |
| 5°     | 556.1 | 564.9 | 571.9 | 578.3 | 588.1 | 592.2 | 597.3 | 602.9 | 610.3 | 614.9 | 617.2 |
| 7.5°   | 552.4 | 565.4 | 576.0 | 587.1 | 600.6 | 608.9 | 613.5 | 628.3 | 638.5 | 646.8 | 657.0 |
| 10°    | 546.9 | 563.5 | 578.8 | 595.0 | 614.0 | 624.1 | 634.3 | 652.4 | 666.7 | 682.9 | 695.9 |
| 12.5°  | 538.6 | 560.3 | 578.8 | 601.5 | 625.1 | 637.1 | 649.1 | 680.6 | 697.3 | 711.6 | 734.7 |
| 15°    | 531.2 | 552.9 | 579.3 | 602.4 | 631.6 | 649.6 | 667.2 | 687.5 | 713.9 | 744.9 | 767.1 |
| 17.5°  | 522.8 | 550.1 | 574.6 | 607.0 | 639.4 | 656.5 | 670.9 | 702.3 | 739.4 | 769.9 | 790.2 |
| 20°    | 511.3 | 539.0 | 571.4 | 605.6 | 644.0 | 657.5 | 676.4 | 718.5 | 751.8 | 781.9 | 815.2 |
| 22.5°  | 497.8 | 530.2 | 564.5 | 597.3 | 637.1 | 665.3 | 686.1 | 723.2 | 763.4 | 798.1 | 835.6 |
| 25°    | 484.9 | 520.0 | 550.1 | 595.0 | 637.1 | 656.1 | 679.7 | 723.6 | 767.6 | 809.7 | 848.1 |
| 27.5°  | 471.0 | 503.9 | 544.6 | 580.2 | 627.9 | 648.7 | 674.1 | 722.2 | 769.0 | 811.1 | 852.2 |
| 30°    | 455.7 | 490.9 | 524.7 | 566.8 | 613.0 | 639.9 | 663.5 | 715.8 | 763.4 | 807.4 | 845.8 |
| 32.5°  | 438.6 | 471.9 | 508.0 | 547.8 | 596.4 | 623.7 | 653.3 | 707.0 | 757.9 | 795.8 | 825.4 |
| 35°    | 420.6 | 454.3 | 485.8 | 526.5 | 576.5 | 603.8 | 632.5 | 691.7 | 742.1 | 773.1 | 790.2 |
| 37.5°  | 400.7 | 432.6 | 463.6 | 503.9 | 553.8 | 583.0 | 612.1 | 669.5 | 717.1 | 743.1 | 738.4 |
| 40°    | 381.7 | 410.4 | 439.1 | 477.0 | 529.3 | 560.3 | 585.7 | 643.6 | 685.2 | 696.3 | 681.1 |
| 42.5°  | 360.0 | 384.5 | 412.2 | 451.1 | 502.0 | 531.2 | 563.1 | 615.8 | 646.8 | 642.2 | 616.3 |
| 45°    | 335.4 | 357.2 | 384.9 | 421.5 | 473.3 | 503.4 | 530.2 | 580.2 | 602.9 | 591.3 | 544.1 |
| 47.5°  | 311.8 | 333.1 | 355.8 | 392.3 | 442.8 | 468.2 | 495.5 | 540.4 | 553.4 | 528.8 | 481.6 |
| 50°    | 286.4 | 304.0 | 327.6 | 362.3 | 409.5 | 436.3 | 459.0 | 495.1 | 499.7 | 469.6 | 420.6 |
| 52.5°  | 261.9 | 276.7 | 299.4 | 333.6 | 377.5 | 398.8 | 421.0 | 453.0 | 449.3 | 418.3 | 371.1 |
| 55°    | 236.0 | 249.8 | 270.7 | 302.1 | 341.0 | 361.3 | 380.3 | 408.5 | 400.7 | 368.8 | 327.6 |
| 57.5°  | 214.2 | 223.9 | 244.3 | 273.4 | 305.4 | 327.6 | 343.8 | 366.0 | 353.9 | 322.0 | 283.6 |
| 60°    | 189.2 | 201.3 | 218.4 | 242.0 | 273.4 | 288.2 | 302.6 | 317.4 | 309.1 | 278.5 | 244.3 |
| 62.5°  | 166.6 | 175.8 | 190.6 | 213.3 | 237.8 | 251.2 | 266.5 | 275.8 | 267.4 | 239.2 | 210.5 |
| 65°    | 147.1 | 154.5 | 166.1 | 184.6 | 208.2 | 219.3 | 228.1 | 236.9 | 229.9 | 203.6 | 182.8 |
| 67.5°  | 125.8 | 132.3 | 142.0 | 156.8 | 176.7 | 184.6 | 192.9 | 199.0 | 191.1 | 173.5 | 153.1 |
| 70°    | 106.9 | 111.5 | 120.8 | 131.9 | 145.7 | 153.1 | 160.1 | 166.1 | 159.2 | 144.4 | 129.1 |
| 72.5°  | 87.4  | 91.1  | 99.5  | 107.3 | 119.8 | 124.9 | 130.0 | 134.6 | 132.3 | 118.4 | 106.0 |
| 75°    | 72.2  | 73.6  | 79.1  | 85.6  | 93.5  | 99.0  | 102.7 | 105.5 | 103.6 | 92.5  | 84.7  |
| 77.5°  | 54.6  | 56.4  | 60.6  | 65.7  | 72.6  | 75.9  | 78.2  | 81.0  | 78.7  | 69.9  | 64.3  |
| 80°    | 39.8  | 40.3  | 42.6  | 47.2  | 51.8  | 52.3  | 54.6  | 58.3  | 56.9  | 50.9  | 46.7  |
| 82.5°  | 25.4  | 26.8  | 27.8  | 30.5  | 33.8  | 34.7  | 36.1  | 37.0  | 36.6  | 32.8  | 31.5  |
| 85°    | 14.8  | 14.8  | 15.7  | 17.6  | 18.5  | 19.9  | 20.4  | 20.8  | 21.7  | 19.4  | 18.0  |
| 87.5°  | 6.5   | 6.9   | 6.9   | 7.4   | 8.3   | 8.3   | 8.8   | 9.3   | 9.7   | 9.3   | 7.9   |
| 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°     | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 |
| 2.5°   | 583.4 | 591.8 | 595.5 | 596.4 | 601.5 | 598.2 | 599.6 | 599.2 | 602.9 | 603.3 | 603.3 |
| 5°     | 626.0 | 635.7 | 639.0 | 643.6 | 650.5 | 652.4 | 651.0 | 653.8 | 658.8 | 655.1 | 660.7 |
| 7.5°   | 670.9 | 681.5 | 688.9 | 699.1 | 701.4 | 707.4 | 711.1 | 714.4 | 715.3 | 715.8 | 716.7 |
| 10°    | 712.5 | 725.9 | 736.1 | 753.2 | 756.9 | 760.2 | 776.4 | 769.9 | 778.2 | 775.4 | 776.4 |
| 12.5°  | 746.3 | 772.7 | 781.0 | 809.7 | 812.5 | 823.6 | 822.6 | 832.8 | 834.7 | 838.4 | 834.7 |
| 15°    | 790.7 | 821.2 | 834.7 | 850.9 | 860.1 | 873.1 | 875.4 | 889.3 | 894.8 | 899.9 | 894.8 |
| 17.5°  | 831.4 | 847.6 | 881.9 | 894.8 | 900.8 | 907.8 | 925.4 | 930.4 | 938.8 | 935.5 | 944.8 |
| 20°    | 851.8 | 874.9 | 911.0 | 933.2 | 942.5 | 948.9 | 963.8 | 971.6 | 974.9 | 974.9 | 975.8 |
| 22.5°  | 869.8 | 903.1 | 930.0 | 955.4 | 963.8 | 968.4 | 977.2 | 983.2 | 984.6 | 985.5 | 986.4 |
| 25°    | 886.0 | 916.1 | 937.8 | 952.2 | 955.4 | 955.4 | 960.5 | 956.8 | 950.8 | 955.4 | 958.2 |
| 27.5°  | 886.0 | 907.3 | 917.0 | 922.1 | 922.1 | 909.6 | 902.2 | 886.9 | 874.0 | 870.3 | 878.6 |
| 30°    | 871.2 | 880.9 | 867.5 | 855.0 | 845.3 | 837.0 | 807.8 | 784.7 | 780.1 | 776.8 | 789.3 |
| 32.5°  | 837.0 | 824.5 | 798.1 | 762.0 | 747.7 | 728.7 | 706.0 | 688.5 | 677.8 | 674.1 | 671.3 |
| 35°    | 776.4 | 744.0 | 709.7 | 661.2 | 651.0 | 626.9 | 595.9 | 583.0 | 565.4 | 564.9 | 570.9 |
| 37.5°  | 710.2 | 660.2 | 623.2 | 577.0 | 562.6 | 537.2 | 508.0 | 494.6 | 482.6 | 473.3 | 484.4 |
| 40°    | 632.9 | 589.4 | 533.0 | 495.1 | 474.7 | 461.3 | 436.8 | 422.0 | 416.4 | 411.8 | 418.7 |
| 42.5°  | 560.8 | 513.1 | 469.2 | 430.3 | 413.6 | 398.4 | 382.2 | 367.8 | 363.7 | 363.2 | 368.3 |
| 45°    | 489.0 | 442.3 | 401.6 | 368.3 | 357.6 | 348.4 | 332.7 | 328.5 | 321.6 | 316.9 | 319.2 |
| 47.5°  | 431.7 | 383.6 | 349.8 | 324.3 | 315.1 | 307.2 | 297.0 | 290.1 | 284.1 | 282.2 | 285.0 |
| 50°    | 375.2 | 342.8 | 308.1 | 286.9 | 279.9 | 272.5 | 264.7 | 258.2 | 255.4 | 253.5 | 255.4 |
| 52.5°  | 329.9 | 295.2 | 271.6 | 254.5 | 247.5 | 242.0 | 236.4 | 233.7 | 229.9 | 230.9 | 232.7 |
| 55°    | 289.2 | 258.6 | 238.7 | 226.2 | 222.1 | 219.8 | 212.8 | 209.6 | 208.2 | 207.3 | 208.2 |
| 57.5°  | 250.8 | 228.6 | 213.8 | 203.1 | 197.6 | 196.2 | 190.6 | 190.6 | 189.2 | 187.8 | 188.3 |
| 60°    | 220.2 | 201.3 | 186.9 | 178.6 | 177.7 | 175.4 | 171.7 | 171.2 | 168.0 | 169.3 | 169.8 |
| 62.5°  | 189.2 | 174.0 | 164.2 | 159.2 | 155.9 | 155.0 | 152.7 | 152.2 | 150.8 | 151.3 | 150.4 |
| 65°    | 164.7 | 152.2 | 142.5 | 138.3 | 137.0 | 136.5 | 134.6 | 133.3 | 132.3 | 133.3 | 132.3 |
| 67.5°  | 140.2 | 131.9 | 124.5 | 120.3 | 118.4 | 118.0 | 116.6 | 115.7 | 116.1 | 114.7 | 115.7 |
| 70°    | 117.1 | 108.7 | 104.1 | 101.8 | 100.9 | 99.5  | 99.5  | 99.5  | 99.5  | 98.5  | 98.1  |
| 72.5°  | 98.5  | 90.2  | 87.0  | 85.6  | 84.7  | 84.2  | 82.8  | 83.3  | 82.8  | 82.4  | 84.2  |
| 75°    | 78.2  | 73.1  | 69.9  | 68.5  | 69.4  | 68.0  | 66.6  | 67.6  | 66.2  | 66.6  | 68.5  |
| 77.5°  | 59.2  | 56.9  | 55.1  | 54.1  | 53.2  | 52.3  | 52.3  | 51.4  | 51.4  | 51.4  | 51.4  |
| 80°    | 43.0  | 42.6  | 39.3  | 38.9  | 38.9  | 37.9  | 37.9  | 37.9  | 37.9  | 37.5  | 37.9  |
| 82.5°  | 28.7  | 28.2  | 27.3  | 26.8  | 25.9  | 26.4  | 26.4  | 25.4  | 25.4  | 25.0  | 25.4  |
| 85°    | 16.7  | 16.7  | 15.7  | 15.3  | 14.8  | 15.3  | 14.3  | 13.9  | 14.3  | 13.9  | 14.3  |
| 87.5°  | 7.9   | 6.9   | 7.4   | 6.9   | 6.0   | 6.5   | 5.6   | 6.0   | 5.6   | 5.1   | 6.0   |
| 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 |

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CATALOG NUMBER: S124DIP-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: P1013047

CATALOG NUMBER: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 558.4 | 558.4 | 558.4 | 558.4  | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 |
| 2.5°   | 602.4 | 601.0 | 599.2 | 599.2  | 596.9 | 596.9 | 593.1 | 586.7 | 581.1 | 579.3 | 580.2 |
| 5°     | 653.8 | 654.2 | 651.4 | 649.1  | 645.0 | 641.7 | 635.7 | 624.1 | 620.4 | 613.0 | 608.0 |
| 7.5°   | 712.5 | 710.7 | 705.6 | 701.9  | 701.0 | 693.6 | 680.6 | 666.7 | 655.6 | 648.2 | 637.6 |
| 10°    | 778.7 | 771.3 | 763.9 | 761.6  | 756.0 | 743.5 | 728.7 | 713.4 | 698.2 | 682.0 | 663.9 |
| 12.5°  | 834.2 | 819.9 | 819.4 | 813.8  | 803.2 | 796.3 | 778.7 | 756.9 | 730.6 | 712.5 | 692.2 |
| 15°    | 893.9 | 880.5 | 869.4 | 859.2  | 854.1 | 833.7 | 818.9 | 791.6 | 760.2 | 740.7 | 726.9 |
| 17.5°  | 936.5 | 930.4 | 911.5 | 906.8  | 899.9 | 876.3 | 852.7 | 825.9 | 798.6 | 771.3 | 733.8 |
| 20°    | 970.7 | 967.0 | 954.5 | 948.0  | 936.9 | 918.4 | 889.7 | 858.7 | 827.3 | 788.4 | 753.2 |
| 22.5°  | 985.5 | 980.9 | 970.7 | 965.1  | 958.2 | 942.5 | 917.9 | 882.8 | 841.6 | 806.9 | 769.4 |
| 25°    | 956.3 | 964.7 | 961.9 | 959.6  | 956.8 | 947.6 | 929.1 | 898.1 | 857.8 | 818.5 | 771.7 |
| 27.5°  | 890.6 | 905.0 | 918.9 | 920.7  | 925.4 | 929.1 | 921.6 | 899.4 | 865.7 | 824.0 | 772.7 |
| 30°    | 802.3 | 808.8 | 837.0 | 845.3  | 851.8 | 875.4 | 889.3 | 883.7 | 857.8 | 820.3 | 773.1 |
| 32.5°  | 688.9 | 706.0 | 734.7 | 754.6  | 772.2 | 798.6 | 834.7 | 849.0 | 839.8 | 809.2 | 762.5 |
| 35°    | 581.6 | 601.9 | 635.3 | 660.7  | 678.3 | 715.8 | 758.3 | 789.3 | 800.9 | 785.6 | 744.0 |
| 37.5°  | 493.7 | 518.2 | 547.8 | 557.5  | 577.9 | 624.1 | 682.9 | 725.9 | 754.2 | 755.5 | 723.2 |
| 40°    | 427.5 | 440.0 | 463.6 | 478.4  | 498.3 | 537.2 | 594.5 | 651.4 | 694.0 | 708.4 | 691.2 |
| 42.5°  | 371.5 | 381.2 | 398.8 | 416.9  | 434.9 | 464.5 | 517.3 | 570.5 | 627.9 | 656.5 | 656.1 |
| 45°    | 327.1 | 337.3 | 349.3 | 364.1  | 376.6 | 408.5 | 450.2 | 504.8 | 554.3 | 598.7 | 609.8 |
| 47.5°  | 288.2 | 297.0 | 311.8 | 318.3  | 326.6 | 356.7 | 392.8 | 443.7 | 495.1 | 546.0 | 558.9 |
| 50°    | 259.6 | 267.0 | 277.1 | 281.3  | 290.6 | 312.8 | 342.4 | 383.6 | 440.5 | 487.2 | 511.3 |
| 52.5°  | 233.7 | 239.2 | 247.1 | 250.3  | 256.8 | 273.4 | 300.3 | 332.7 | 379.9 | 428.0 | 461.7 |
| 55°    | 211.4 | 215.1 | 220.7 | 224.4  | 229.0 | 243.8 | 263.7 | 292.9 | 333.6 | 375.2 | 408.1 |
| 57.5°  | 190.6 | 193.4 | 199.0 | 200.8  | 204.5 | 216.1 | 229.9 | 254.5 | 291.9 | 329.0 | 360.9 |
| 60°    | 171.2 | 173.0 | 176.3 | 180.4  | 183.2 | 191.1 | 204.0 | 224.4 | 254.5 | 288.2 | 314.2 |
| 62.5°  | 152.7 | 155.5 | 156.4 | 158.2  | 160.5 | 168.0 | 178.1 | 192.9 | 219.3 | 247.1 | 274.4 |
| 65°    | 133.7 | 136.0 | 137.9 | 138.3  | 140.7 | 146.2 | 155.5 | 168.4 | 185.5 | 209.6 | 235.0 |
| 67.5°  | 116.1 | 117.5 | 118.4 | 120.3  | 122.6 | 125.4 | 132.8 | 142.5 | 158.2 | 177.7 | 198.0 |
| 70°    | 99.9  | 99.9  | 101.3 | 101.8  | 104.6 | 107.8 | 111.0 | 120.3 | 134.2 | 149.9 | 163.8 |
| 72.5°  | 82.4  | 84.7  | 84.2  | 86.5   | 86.1  | 88.4  | 92.5  | 98.5  | 108.7 | 121.2 | 134.6 |
| 75°    | 67.1  | 68.5  | 68.5  | 68.5   | 69.4  | 71.3  | 73.6  | 79.1  | 87.0  | 97.2  | 105.0 |
| 77.5°  | 52.3  | 53.2  | 53.2  | 53.2   | 53.7  | 55.5  | 57.8  | 61.5  | 67.1  | 73.1  | 77.7  |
| 80°    | 37.5  | 38.4  | 38.4  | 39.3   | 39.3  | 39.8  | 42.1  | 44.0  | 46.7  | 51.4  | 56.0  |
| 82.5°  | 25.4  | 25.9  | 26.8  | 26.8   | 26.4  | 27.3  | 27.8  | 29.6  | 32.4  | 33.3  | 36.6  |
| 85°    | 13.9  | 14.3  | 14.8  | 14.8   | 15.3  | 16.2  | 15.7  | 17.6  | 17.6  | 19.4  | 20.4  |
| 87.5°  | 5.6   | 6.5   | 6.5   | 6.0    | 6.5   | 6.5   | 6.5   | 7.4   | 7.9   | 8.3   | 7.9   |
| 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 |



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**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: P1013047

CATALOG NUMBER: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 558.4 | 558.4 | 558.4  | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 |
| 2.5°   | 576.0 | 574.2 | 572.8  | 572.8 | 568.6 | 564.5 | 562.2 | 561.2 | 560.3 | 556.6 | 551.5 |
| 5°     | 599.6 | 593.6 | 589.4  | 585.3 | 578.3 | 570.9 | 563.5 | 559.4 | 553.4 | 545.0 | 539.0 |
| 7.5°   | 626.0 | 611.7 | 607.0  | 601.9 | 588.1 | 575.6 | 565.4 | 556.6 | 546.9 | 536.2 | 525.6 |
| 10°    | 648.2 | 632.9 | 622.8  | 614.0 | 595.9 | 579.3 | 564.0 | 551.0 | 538.6 | 524.7 | 511.7 |
| 12.5°  | 669.5 | 647.7 | 637.1  | 624.1 | 605.2 | 581.1 | 561.2 | 545.0 | 526.5 | 512.2 | 496.5 |
| 15°    | 699.1 | 662.6 | 645.0  | 636.6 | 611.2 | 583.0 | 558.9 | 534.9 | 519.6 | 497.8 | 484.0 |
| 17.5°  | 703.7 | 674.1 | 662.6  | 641.3 | 610.7 | 578.8 | 551.0 | 527.0 | 503.9 | 484.4 | 466.4 |
| 20°    | 719.9 | 681.1 | 662.6  | 649.1 | 608.9 | 576.5 | 546.0 | 515.0 | 492.7 | 471.9 | 451.6 |
| 22.5°  | 730.1 | 686.1 | 666.7  | 645.4 | 607.0 | 568.2 | 532.1 | 505.2 | 477.9 | 456.7 | 440.5 |
| 25°    | 727.3 | 683.4 | 661.6  | 641.7 | 595.0 | 556.1 | 523.7 | 489.5 | 464.1 | 440.9 | 419.6 |
| 27.5°  | 725.9 | 676.4 | 653.3  | 631.1 | 587.1 | 546.4 | 505.7 | 477.9 | 449.7 | 422.9 | 407.2 |
| 30°    | 722.2 | 667.6 | 640.8  | 616.7 | 570.9 | 528.4 | 493.7 | 461.3 | 433.1 | 408.5 | 387.7 |
| 32.5°  | 709.7 | 652.8 | 626.9  | 601.0 | 553.4 | 510.8 | 475.6 | 445.6 | 417.3 | 391.9 | 372.0 |
| 35°    | 693.1 | 635.3 | 607.0  | 579.7 | 532.1 | 489.0 | 456.7 | 425.2 | 398.8 | 374.3 | 355.3 |
| 37.5°  | 676.4 | 614.9 | 588.5  | 557.1 | 513.1 | 468.2 | 434.9 | 406.7 | 382.2 | 356.7 | 335.9 |
| 40°    | 652.4 | 590.8 | 561.7  | 534.9 | 483.5 | 441.4 | 410.9 | 385.4 | 361.3 | 337.3 | 319.7 |
| 42.5°  | 619.5 | 564.5 | 534.4  | 504.8 | 456.7 | 415.0 | 385.4 | 362.7 | 340.1 | 320.2 | 300.7 |
| 45°    | 586.2 | 532.5 | 505.7  | 479.3 | 427.0 | 387.7 | 360.4 | 339.6 | 320.6 | 298.9 | 283.2 |
| 47.5°  | 546.0 | 500.6 | 473.8  | 447.9 | 398.4 | 359.0 | 334.1 | 314.6 | 297.0 | 279.0 | 264.2 |
| 50°    | 504.8 | 465.5 | 440.9  | 414.1 | 366.9 | 331.3 | 306.8 | 290.6 | 276.2 | 259.1 | 247.1 |
| 52.5°  | 460.4 | 426.1 | 405.3  | 379.4 | 337.8 | 304.9 | 279.9 | 263.7 | 251.7 | 239.2 | 228.6 |
| 55°    | 413.2 | 388.2 | 366.0  | 345.2 | 305.8 | 276.2 | 254.0 | 239.7 | 231.3 | 219.8 | 210.5 |
| 57.5°  | 370.6 | 346.5 | 333.1  | 309.5 | 275.3 | 246.1 | 228.6 | 216.5 | 206.8 | 199.9 | 192.5 |
| 60°    | 326.2 | 306.8 | 291.9  | 274.8 | 244.8 | 220.2 | 201.7 | 194.8 | 184.6 | 179.5 | 176.3 |
| 62.5°  | 283.6 | 269.7 | 255.9  | 242.9 | 216.1 | 192.9 | 179.1 | 170.3 | 164.2 | 159.2 | 156.4 |
| 65°    | 243.4 | 230.4 | 220.7  | 209.1 | 186.9 | 168.4 | 155.5 | 148.5 | 142.5 | 141.1 | 137.9 |
| 67.5°  | 204.0 | 198.5 | 187.8  | 178.6 | 159.6 | 145.3 | 135.6 | 126.8 | 123.5 | 122.1 | 119.4 |
| 70°    | 170.7 | 164.2 | 155.9  | 148.1 | 133.7 | 121.2 | 112.4 | 109.2 | 104.6 | 104.1 | 100.9 |
| 72.5°  | 140.7 | 132.8 | 126.8  | 120.8 | 110.1 | 99.0  | 94.4  | 89.8  | 87.4  | 85.6  | 84.2  |
| 75°    | 111.5 | 106.0 | 101.8  | 96.7  | 87.4  | 80.0  | 73.6  | 71.7  | 70.3  | 69.9  | 68.9  |
| 77.5°  | 83.3  | 79.6  | 77.7   | 72.6  | 66.2  | 59.7  | 56.9  | 54.1  | 54.1  | 53.2  | 53.7  |
| 80°    | 59.2  | 56.9  | 54.6   | 51.8  | 46.3  | 43.5  | 41.2  | 39.3  | 38.4  | 37.9  | 38.4  |
| 82.5°  | 37.5  | 36.1  | 35.6   | 33.8  | 30.1  | 28.7  | 26.8  | 25.4  | 25.4  | 25.4  | 25.4  |
| 85°    | 20.8  | 20.8  | 20.8   | 18.0  | 16.7  | 15.3  | 14.3  | 13.9  | 13.9  | 13.9  | 14.3  |
| 87.5°  | 8.8   | 8.8   | 7.4    | 7.4   | 6.9   | 6.0   | 5.6   | 5.6   | 6.0   | 6.0   | 6.5   |
| 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: P1013047

CATALOG NUMBER: S124DIP-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: P1013047

CATALOG NUMBER: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 558.4 | 558.4  | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 |
| 2.5°   | 550.1 | 548.3  | 549.2 | 544.6 | 540.4 | 534.4 | 529.3 | 528.4 | 527.4 | 530.2 | 528.4 |
| 5°     | 534.4 | 532.1  | 529.8 | 524.2 | 515.9 | 510.8 | 503.4 | 502.9 | 500.2 | 496.0 | 496.9 |
| 7.5°   | 517.3 | 515.9  | 512.6 | 503.9 | 496.5 | 487.7 | 481.6 | 476.6 | 474.2 | 470.5 | 469.2 |
| 10°    | 503.4 | 498.3  | 495.5 | 485.8 | 477.0 | 467.8 | 459.9 | 456.2 | 452.0 | 448.8 | 446.5 |
| 12.5°  | 484.4 | 483.0  | 475.2 | 467.3 | 459.9 | 449.3 | 443.2 | 432.6 | 427.0 | 429.8 | 428.9 |
| 15°    | 471.9 | 465.5  | 463.6 | 452.5 | 440.0 | 433.1 | 422.0 | 415.0 | 412.7 | 408.5 | 403.5 |
| 17.5°  | 455.3 | 451.1  | 444.6 | 434.5 | 420.1 | 410.4 | 402.5 | 396.1 | 393.3 | 387.7 | 383.6 |
| 20°    | 439.5 | 432.6  | 427.5 | 418.3 | 404.4 | 391.9 | 382.2 | 378.0 | 371.1 | 366.4 | 364.1 |
| 22.5°  | 425.2 | 420.1  | 412.7 | 398.8 | 386.8 | 374.8 | 363.2 | 357.2 | 350.7 | 347.9 | 344.2 |
| 25°    | 407.6 | 399.3  | 394.2 | 378.9 | 366.0 | 356.3 | 345.6 | 337.8 | 334.1 | 329.4 | 328.5 |
| 27.5°  | 390.5 | 382.6  | 376.6 | 363.2 | 347.5 | 335.0 | 328.5 | 322.9 | 316.5 | 316.5 | 314.2 |
| 30°    | 373.4 | 367.8  | 358.6 | 345.6 | 330.8 | 318.8 | 311.4 | 306.3 | 304.0 | 302.1 | 301.7 |
| 32.5°  | 356.3 | 348.9  | 343.3 | 325.7 | 314.6 | 303.5 | 298.0 | 293.8 | 291.0 | 290.6 | 291.0 |
| 35°    | 338.7 | 330.4  | 324.8 | 309.1 | 298.0 | 287.8 | 285.5 | 281.8 | 280.4 | 279.9 | 282.2 |
| 37.5°  | 320.2 | 313.7  | 306.8 | 293.8 | 281.3 | 275.3 | 270.7 | 269.3 | 268.8 | 271.6 | 272.5 |
| 40°    | 303.1 | 297.5  | 291.0 | 277.1 | 267.9 | 261.4 | 259.1 | 257.7 | 259.6 | 262.3 | 263.7 |
| 42.5°  | 286.9 | 279.0  | 273.9 | 261.4 | 253.1 | 249.4 | 246.6 | 246.6 | 248.5 | 251.7 | 254.0 |
| 45°    | 269.7 | 263.7  | 258.6 | 247.5 | 240.1 | 236.0 | 235.5 | 236.0 | 238.3 | 240.6 | 243.4 |
| 47.5°  | 253.1 | 247.1  | 241.5 | 232.3 | 225.8 | 223.5 | 223.0 | 223.5 | 227.2 | 230.4 | 233.7 |
| 50°    | 237.8 | 231.3  | 226.2 | 217.5 | 212.4 | 209.6 | 210.1 | 212.4 | 215.1 | 219.8 | 223.9 |
| 52.5°  | 219.8 | 215.1  | 210.5 | 202.7 | 198.0 | 196.2 | 197.6 | 199.4 | 204.5 | 207.7 | 212.8 |
| 55°    | 202.2 | 198.0  | 194.3 | 188.3 | 184.6 | 183.2 | 184.1 | 186.9 | 191.1 | 196.6 | 202.7 |
| 57.5°  | 186.0 | 181.4  | 177.7 | 173.5 | 169.3 | 169.8 | 170.3 | 174.0 | 179.1 | 184.1 | 191.1 |
| 60°    | 168.0 | 165.2  | 161.9 | 156.8 | 155.0 | 155.0 | 156.4 | 160.5 | 165.2 | 173.5 | 179.5 |
| 62.5°  | 151.8 | 148.1  | 145.7 | 142.5 | 139.7 | 140.2 | 143.4 | 147.1 | 152.7 | 159.6 | 167.5 |
| 65°    | 135.1 | 130.9  | 129.1 | 126.3 | 125.4 | 125.8 | 128.2 | 133.7 | 139.7 | 145.7 | 153.1 |
| 67.5°  | 116.6 | 115.2  | 113.4 | 110.6 | 111.5 | 112.0 | 114.3 | 118.9 | 125.4 | 131.4 | 139.7 |
| 70°    | 100.9 | 98.1   | 97.6  | 95.3  | 95.3  | 96.7  | 101.3 | 104.6 | 110.6 | 117.1 | 125.8 |
| 72.5°  | 84.2  | 81.9   | 81.9  | 80.0  | 81.4  | 82.8  | 85.1  | 89.8  | 95.3  | 101.8 | 109.2 |
| 75°    | 67.1  | 66.2   | 67.1  | 66.2  | 66.2  | 68.5  | 71.3  | 75.0  | 81.0  | 87.9  | 93.9  |
| 77.5°  | 51.8  | 51.8   | 51.4  | 52.7  | 52.7  | 54.1  | 57.8  | 61.5  | 66.2  | 71.7  | 78.2  |
| 80°    | 37.9  | 37.9   | 37.9  | 39.3  | 40.7  | 40.7  | 43.0  | 47.7  | 51.8  | 55.5  | 61.5  |
| 82.5°  | 25.9  | 25.9   | 25.9  | 26.8  | 28.7  | 28.7  | 31.5  | 34.2  | 38.9  | 42.1  | 44.9  |
| 85°    | 15.7  | 15.7   | 15.3  | 16.2  | 16.7  | 18.0  | 20.4  | 22.2  | 24.5  | 27.3  | 30.1  |
| 87.5°  | 6.9   | 6.9    | 7.4   | 7.9   | 8.3   | 9.3   | 10.2  | 11.1  | 13.4  | 14.3  | 15.7  |
| 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: P1013047

CATALOG NUMBER: S124DIP-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: P1013047

CATALOG NUMBER: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 558.4  | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4  |
| 2.5°   | 527.0  | 526.5 | 524.2 | 525.1 | 522.4 | 523.3 | 524.7 | 525.1 | 527.0 | 525.6 | 525.1  |
| 5°     | 494.6  | 493.7 | 492.3 | 490.9 | 490.4 | 492.3 | 489.0 | 490.0 | 490.9 | 492.3 | 494.1  |
| 7.5°   | 468.2  | 467.8 | 466.4 | 464.1 | 463.1 | 462.2 | 462.7 | 465.9 | 465.5 | 465.0 | 468.2  |
| 10°    | 444.2  | 444.6 | 441.9 | 441.4 | 438.6 | 438.2 | 438.6 | 439.5 | 440.9 | 442.8 | 443.2  |
| 12.5°  | 419.2  | 425.2 | 420.1 | 418.3 | 414.1 | 416.4 | 417.3 | 413.2 | 415.5 | 416.9 | 423.8  |
| 15°    | 403.5  | 400.7 | 397.4 | 397.4 | 395.6 | 394.7 | 392.3 | 395.6 | 397.4 | 400.2 | 399.3  |
| 17.5°  | 381.7  | 377.1 | 375.2 | 373.4 | 373.8 | 375.7 | 370.6 | 378.0 | 378.0 | 379.4 | 377.1  |
| 20°    | 362.7  | 359.0 | 356.7 | 355.8 | 354.4 | 353.5 | 353.0 | 354.9 | 357.6 | 358.6 | 360.9  |
| 22.5°  | 342.8  | 342.8 | 339.1 | 337.8 | 336.8 | 335.4 | 337.8 | 336.4 | 338.2 | 340.1 | 343.8  |
| 25°    | 326.2  | 326.2 | 324.8 | 322.9 | 321.6 | 320.6 | 322.0 | 321.6 | 322.9 | 325.3 | 326.2  |
| 27.5°  | 312.8  | 311.4 | 310.9 | 310.5 | 310.0 | 310.5 | 310.0 | 311.4 | 312.8 | 313.2 | 312.3  |
| 30°    | 301.2  | 299.8 | 300.3 | 300.3 | 300.7 | 300.3 | 299.8 | 301.2 | 301.7 | 300.7 | 301.2  |
| 32.5°  | 290.6  | 290.6 | 291.5 | 291.9 | 291.9 | 292.4 | 292.9 | 291.9 | 292.4 | 291.0 | 291.5  |
| 35°    | 281.8  | 282.7 | 283.6 | 284.1 | 284.5 | 284.1 | 285.0 | 284.5 | 283.6 | 282.7 | 282.2  |
| 37.5°  | 273.0  | 273.9 | 275.8 | 276.2 | 277.6 | 278.1 | 277.1 | 277.1 | 276.7 | 274.8 | 273.9  |
| 40°    | 263.7  | 264.7 | 267.0 | 268.4 | 269.3 | 270.7 | 269.7 | 269.7 | 267.9 | 266.0 | 264.7  |
| 42.5°  | 254.9  | 256.8 | 259.1 | 260.5 | 262.3 | 262.3 | 262.3 | 261.4 | 259.1 | 257.2 | 255.9  |
| 45°    | 246.1  | 246.6 | 249.8 | 252.2 | 254.0 | 254.0 | 254.0 | 252.6 | 251.2 | 247.5 | 245.7  |
| 47.5°  | 236.4  | 237.8 | 241.5 | 243.8 | 245.7 | 246.1 | 246.1 | 244.8 | 242.0 | 238.7 | 236.4  |
| 50°    | 225.8  | 228.1 | 232.3 | 235.5 | 237.8 | 238.7 | 237.4 | 236.4 | 233.2 | 229.5 | 226.7  |
| 52.5°  | 215.6  | 218.4 | 223.5 | 226.2 | 229.5 | 229.9 | 229.5 | 228.1 | 224.4 | 219.3 | 217.0  |
| 55°    | 205.4  | 207.7 | 213.3 | 217.9 | 220.7 | 221.6 | 220.7 | 218.4 | 213.8 | 208.7 | 206.4  |
| 57.5°  | 194.3  | 197.6 | 203.6 | 208.2 | 211.4 | 211.9 | 211.0 | 208.7 | 205.0 | 198.5 | 195.2  |
| 60°    | 182.8  | 186.9 | 192.9 | 197.6 | 201.7 | 202.2 | 201.3 | 198.0 | 193.4 | 186.9 | 184.1  |
| 62.5°  | 171.2  | 174.4 | 181.4 | 186.5 | 189.7 | 192.0 | 190.2 | 186.9 | 182.3 | 175.8 | 171.7  |
| 65°    | 157.8  | 162.4 | 168.4 | 173.0 | 176.7 | 177.2 | 176.3 | 173.5 | 168.4 | 161.5 | 158.2  |
| 67.5°  | 144.8  | 148.1 | 154.1 | 160.1 | 161.5 | 162.9 | 161.5 | 158.7 | 154.5 | 148.5 | 143.9  |
| 70°    | 129.1  | 131.9 | 139.3 | 143.4 | 145.3 | 146.7 | 145.7 | 143.0 | 139.3 | 133.7 | 130.0  |
| 72.5°  | 113.4  | 115.7 | 122.6 | 125.8 | 129.5 | 129.1 | 128.6 | 126.8 | 121.7 | 118.0 | 115.7  |
| 75°    | 96.7   | 99.5  | 104.1 | 108.3 | 109.7 | 109.7 | 109.7 | 108.3 | 105.0 | 99.0  | 96.7   |
| 77.5°  | 81.4   | 82.8  | 86.5  | 88.8  | 90.2  | 90.7  | 90.2  | 87.9  | 86.1  | 81.9  | 80.5   |
| 80°    | 62.5   | 66.2  | 68.9  | 69.4  | 71.3  | 71.3  | 71.3  | 70.3  | 68.5  | 64.3  | 63.8   |
| 82.5°  | 47.2   | 48.1  | 50.9  | 52.3  | 53.2  | 52.7  | 52.7  | 50.9  | 50.4  | 48.1  | 47.2   |
| 85°    | 31.9   | 33.3  | 32.8  | 34.7  | 35.2  | 34.2  | 34.2  | 35.2  | 32.8  | 33.3  | 31.9   |
| 87.5°  | 17.6   | 17.6  | 18.5  | 18.0  | 19.9  | 19.9  | 19.0  | 19.4  | 18.5  | 18.0  | 17.6   |
| 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: P1013047

CATALOG NUMBER: S124DIP-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: P1013047

CATALOG NUMBER: S124DIP-B350D810UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4 | 558.4  | 558.4 |
| 2.5°   | 525.1 | 527.9 | 525.1 | 527.0 | 527.9 | 530.2 | 531.2 | 535.3 | 536.7 | 539.9  | 539.9 |
| 5°     | 493.7 | 495.1 | 495.5 | 497.4 | 499.2 | 503.9 | 507.1 | 513.1 | 520.0 | 521.0  | 525.1 |
| 7.5°   | 468.2 | 470.5 | 474.2 | 472.9 | 476.1 | 483.0 | 487.2 | 494.6 | 501.5 | 505.2  | 510.3 |
| 10°    | 445.6 | 448.3 | 449.7 | 451.1 | 457.1 | 463.1 | 469.6 | 474.7 | 484.0 | 489.5  | 493.7 |
| 12.5°  | 427.0 | 424.7 | 427.5 | 432.6 | 439.5 | 443.2 | 452.0 | 459.9 | 466.8 | 472.9  | 476.6 |
| 15°    | 403.0 | 404.8 | 407.6 | 416.4 | 418.3 | 427.5 | 430.8 | 439.5 | 452.5 | 458.0  | 462.7 |
| 17.5°  | 379.9 | 385.9 | 391.4 | 394.7 | 400.2 | 407.6 | 416.9 | 426.6 | 434.9 | 441.4  | 446.9 |
| 20°    | 361.3 | 367.4 | 370.6 | 372.9 | 378.5 | 388.6 | 397.4 | 409.5 | 420.1 | 425.2  | 432.6 |
| 22.5°  | 346.5 | 346.5 | 351.2 | 358.1 | 361.3 | 371.1 | 378.5 | 391.4 | 403.0 | 409.5  | 416.4 |
| 25°    | 328.0 | 330.8 | 334.5 | 340.5 | 345.2 | 353.0 | 363.7 | 374.8 | 387.3 | 392.8  | 401.6 |
| 27.5°  | 312.8 | 316.0 | 321.1 | 322.5 | 327.1 | 334.1 | 345.2 | 357.2 | 370.1 | 376.2  | 383.6 |
| 30°    | 301.2 | 303.1 | 304.9 | 307.7 | 311.8 | 317.9 | 327.1 | 337.8 | 353.5 | 358.1  | 367.4 |
| 32.5°  | 291.0 | 291.9 | 292.9 | 295.2 | 297.5 | 303.5 | 310.9 | 322.5 | 335.4 | 342.4  | 350.7 |
| 35°    | 281.8 | 280.8 | 281.3 | 282.7 | 285.0 | 287.3 | 295.2 | 304.9 | 316.9 | 325.3  | 331.7 |
| 37.5°  | 273.0 | 271.1 | 270.7 | 270.7 | 271.6 | 274.4 | 280.4 | 288.7 | 301.7 | 308.6  | 315.1 |
| 40°    | 263.3 | 261.4 | 260.5 | 260.0 | 259.6 | 261.4 | 266.0 | 274.4 | 284.5 | 291.0  | 298.4 |
| 42.5°  | 254.0 | 252.2 | 249.8 | 249.4 | 248.5 | 249.4 | 252.6 | 260.5 | 269.3 | 275.8  | 281.8 |
| 45°    | 244.8 | 241.5 | 238.7 | 236.9 | 237.4 | 236.0 | 238.3 | 244.3 | 254.5 | 258.6  | 264.7 |
| 47.5°  | 234.6 | 230.9 | 227.2 | 225.3 | 223.5 | 224.4 | 225.3 | 230.4 | 239.2 | 243.4  | 249.4 |
| 50°    | 224.9 | 219.8 | 215.6 | 213.3 | 211.9 | 211.0 | 211.9 | 217.0 | 223.5 | 227.2  | 232.3 |
| 52.5°  | 213.8 | 208.7 | 204.5 | 200.8 | 199.0 | 197.6 | 198.0 | 202.7 | 208.7 | 212.4  | 217.5 |
| 55°    | 203.6 | 197.1 | 191.5 | 186.9 | 185.5 | 185.1 | 184.6 | 187.8 | 192.9 | 196.6  | 200.8 |
| 57.5°  | 192.0 | 185.5 | 179.5 | 174.0 | 171.2 | 170.7 | 170.7 | 171.7 | 178.1 | 180.9  | 183.2 |
| 60°    | 180.4 | 173.5 | 167.0 | 161.9 | 157.8 | 156.4 | 155.9 | 157.8 | 161.0 | 163.8  | 167.0 |
| 62.5°  | 167.5 | 160.5 | 152.7 | 148.1 | 143.9 | 140.2 | 141.6 | 142.0 | 146.7 | 148.1  | 150.8 |
| 65°    | 155.0 | 147.1 | 140.7 | 133.3 | 128.6 | 126.3 | 125.4 | 126.3 | 130.0 | 130.5  | 132.3 |
| 67.5°  | 140.7 | 133.3 | 125.4 | 120.3 | 116.1 | 112.0 | 111.0 | 111.0 | 112.9 | 114.3  | 116.6 |
| 70°    | 126.8 | 119.4 | 110.6 | 105.0 | 100.9 | 97.2  | 95.8  | 95.3  | 96.7  | 97.6   | 99.9  |
| 72.5°  | 110.6 | 103.2 | 96.7  | 90.7  | 85.6  | 82.8  | 81.4  | 80.5  | 81.9  | 82.8   | 83.3  |
| 75°    | 93.5  | 87.4  | 81.0  | 75.0  | 71.7  | 68.9  | 67.1  | 65.7  | 66.6  | 66.6   | 66.6  |
| 77.5°  | 77.3  | 71.3  | 66.2  | 62.0  | 57.8  | 54.6  | 53.2  | 51.8  | 52.3  | 52.3   | 53.2  |
| 80°    | 60.1  | 56.0  | 51.8  | 48.1  | 44.4  | 41.6  | 40.7  | 39.3  | 38.4  | 37.9   | 37.9  |
| 82.5°  | 44.4  | 41.2  | 37.5  | 34.2  | 32.4  | 29.6  | 28.7  | 26.8  | 26.8  | 26.4   | 26.4  |
| 85°    | 29.6  | 27.8  | 24.1  | 21.7  | 20.4  | 19.0  | 18.0  | 17.1  | 15.7  | 15.7   | 15.3  |
| 87.5°  | 15.7  | 14.8  | 13.9  | 11.1  | 11.1  | 9.7   | 9.3   | 8.8   | 7.4   | 7.9    | 7.9   |
| 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 |

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**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 558.4 | 558.4 | 558.4 | 558.4 |
| 2.5°   | 543.2 | 547.8 | 552.0 | 558.4 |
| 5°     | 531.2 | 537.6 | 546.4 | 556.1 |
| 7.5°   | 517.3 | 527.4 | 539.0 | 552.4 |
| 10°    | 504.3 | 515.9 | 530.7 | 546.9 |
| 12.5°  | 490.9 | 504.8 | 521.0 | 538.6 |
| 15°    | 475.6 | 489.5 | 507.6 | 531.2 |
| 17.5°  | 461.7 | 478.4 | 497.8 | 522.8 |
| 20°    | 445.6 | 461.3 | 482.6 | 511.3 |
| 22.5°  | 431.2 | 449.3 | 472.9 | 497.8 |
| 25°    | 415.5 | 431.2 | 454.8 | 484.9 |
| 27.5°  | 399.8 | 419.2 | 441.9 | 471.0 |
| 30°    | 384.5 | 400.7 | 425.2 | 455.7 |
| 32.5°  | 367.8 | 387.3 | 409.9 | 438.6 |
| 35°    | 349.8 | 368.3 | 389.6 | 420.6 |
| 37.5°  | 333.6 | 351.6 | 373.4 | 400.7 |
| 40°    | 315.5 | 334.5 | 354.4 | 381.7 |
| 42.5°  | 298.0 | 315.1 | 335.0 | 360.0 |
| 45°    | 280.8 | 295.6 | 313.7 | 335.4 |
| 47.5°  | 263.3 | 275.8 | 292.4 | 311.8 |
| 50°    | 244.3 | 257.7 | 270.2 | 286.4 |
| 52.5°  | 226.7 | 238.3 | 248.5 | 261.9 |
| 55°    | 209.6 | 217.5 | 225.8 | 236.0 |
| 57.5°  | 191.5 | 197.6 | 203.6 | 214.2 |
| 60°    | 173.5 | 179.1 | 182.3 | 189.2 |
| 62.5°  | 155.9 | 158.2 | 162.4 | 166.6 |
| 65°    | 136.5 | 139.7 | 142.0 | 147.1 |
| 67.5°  | 118.9 | 120.3 | 122.6 | 125.8 |
| 70°    | 100.4 | 103.6 | 104.6 | 106.9 |
| 72.5°  | 84.7  | 86.1  | 87.0  | 87.4  |
| 75°    | 67.1  | 68.5  | 69.4  | 72.2  |
| 77.5°  | 52.7  | 52.3  | 54.1  | 54.6  |
| 80°    | 38.9  | 37.5  | 37.9  | 39.8  |
| 82.5°  | 25.4  | 25.9  | 25.4  | 25.4  |
| 85°    | 15.7  | 15.3  | 14.3  | 14.8  |
| 87.5°  | 6.9   | 6.9   | 6.5   | 6.5   |
| 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: P1013047

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**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)