

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: P1001233

Luminaire Tested: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001233  
REPORT IS A COMBINATION OF REPORTS P995849 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

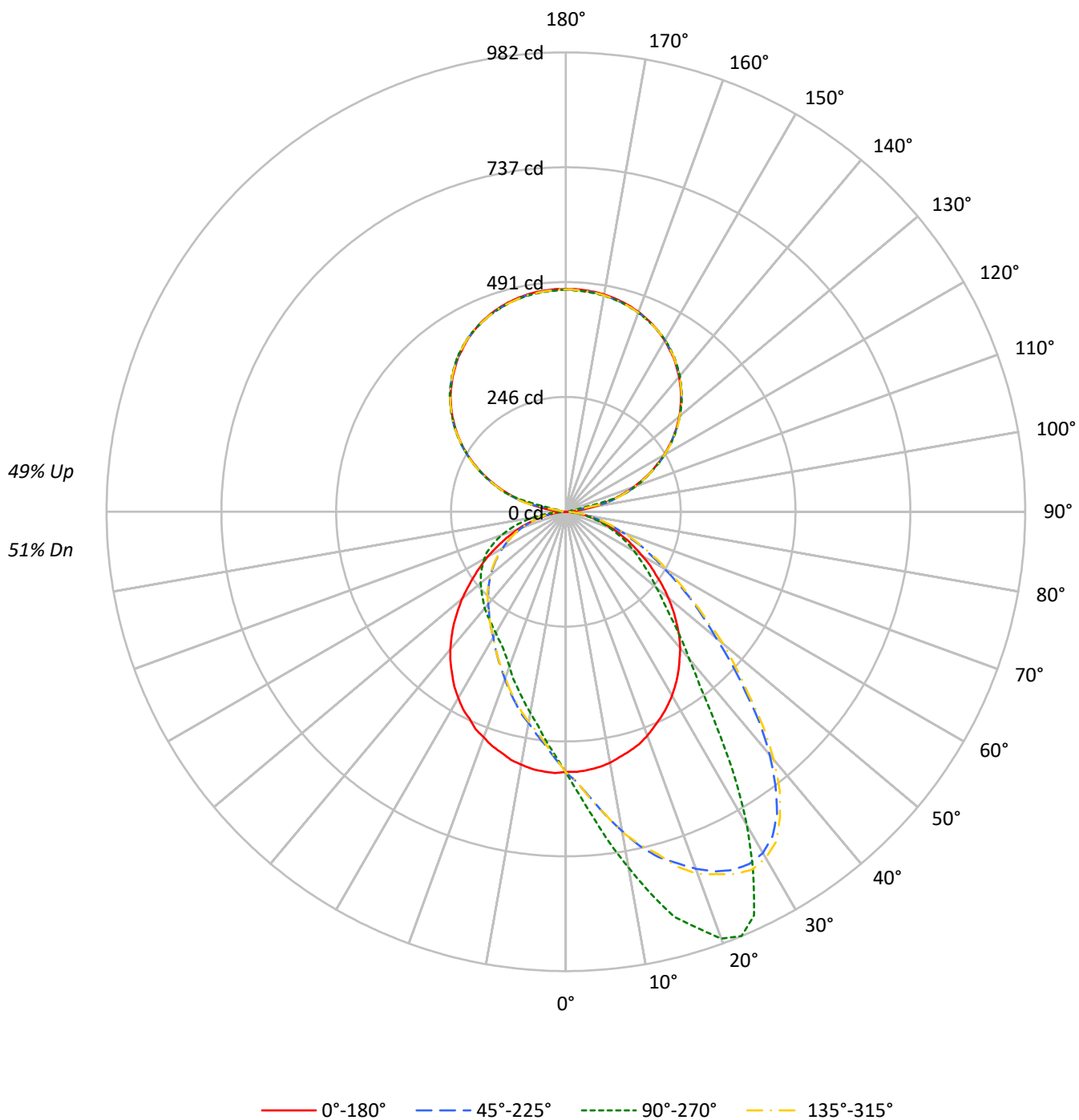
Lumens per Lamp: N/A  
Luminaire Lumens: 3007.0 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 22.3  
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: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 |
| 1   | 98  | 94  | 90  | 87  | 91 | 87 | 84 | 81 | 74 | 72 | 69 | 62 | 60 | 59 | 51 | 50 | 49 |
| 2   | 90  | 82  | 76  | 71  | 83 | 76 | 71 | 67 | 65 | 61 | 58 | 55 | 52 | 49 | 45 | 43 | 41 |
| 3   | 82  | 73  | 65  | 60  | 75 | 67 | 61 | 56 | 58 | 53 | 49 | 49 | 45 | 42 | 40 | 38 | 35 |
| 4   | 75  | 64  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 |
| 5   | 69  | 57  | 49  | 44  | 64 | 54 | 46 | 41 | 46 | 40 | 36 | 39 | 35 | 32 | 33 | 29 | 27 |
| 6   | 64  | 52  | 44  | 38  | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 30 | 26 | 24 |
| 7   | 59  | 47  | 39  | 33  | 54 | 44 | 37 | 31 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 |
| 8   | 55  | 42  | 35  | 29  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 25 | 22 | 19 |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 30 | 25 | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 |
| 10  | 48  | 36  | 28  | 24  | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4536 | 4536 | 4536 | 4536 |
| 5°  | 4525 | 5204 | 4551 | 3911 |
| 10° | 4491 | 6071 | 4525 | 3430 |
| 15° | 4437 | 6999 | 4468 | 3069 |
| 20° | 4380 | 7590 | 4412 | 2752 |
| 25° | 4296 | 7503 | 4337 | 2518 |
| 30° | 4214 | 6201 | 4265 | 2397 |
| 35° | 4098 | 4621 | 4143 | 2324 |
| 40° | 3964 | 3481 | 4003 | 2288 |
| 45° | 3759 | 2794 | 3806 | 2239 |
| 50° | 3515 | 2354 | 3565 | 2216 |
| 55° | 3226 | 2049 | 3277 | 2191 |
| 60° | 2947 | 1804 | 3033 | 2154 |
| 65° | 2685 | 1552 | 2709 | 2064 |
| 70° | 2376 | 1278 | 2427 | 1901 |
| 75° | 2072 | 982  | 2058 | 1615 |
| 80° | 1629 | 644  | 1612 | 1226 |
| 85° | 1070 | 289  | 1004 | 715  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5865 cd/sqm

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.1   | 1.8       |
| 10°-20°   | 167.1  | 5.6       |
| 20°-30°   | 265.5  | 8.8       |
| 30°-40°   | 295.0  | 9.8       |
| 40°-50°   | 268.3  | 8.9       |
| 50°-60°   | 219.2  | 7.3       |
| 60°-70°   | 156.5  | 5.2       |
| 70°-80°   | 86.1   | 2.9       |
| 80°-90°   | 24.3   | 0.8       |
| 90°-100°  | 15.8   | 0.5       |
| 100°-110° | 103.9  | 3.5       |
| 110°-120° | 198.4  | 6.6       |
| 120°-130° | 251.9  | 8.4       |
| 130°-140° | 269.5  | 9.0       |
| 140°-150° | 252.0  | 8.4       |
| 150°-160° | 203.2  | 6.8       |
| 160°-170° | 131.1  | 4.4       |
| 170°-180° | 45.2   | 1.5       |
| 0°-30°    | 486.7  | 16.2      |
| 0°-40°    | 781.7  | 26.0      |
| 0°-60°    | 1269.2 | 42.2      |
| 0°-90°    | 1536.0 | 51.1      |
| 90°-120°  | 318.1  | 10.6      |
| 90°-150°  | 1091.6 | 36.3      |
| 90°-180°  | 1471.0 | 48.9      |
| 0°-180°   | 3007.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 556 | 556 | 556  | 556  | 556  |      |
| 5°   | 554 | 653 | 557  | 490  | 554  | 53   |
| 15°  | 529 | 896 | 533  | 393  | 529  | 149  |
| 25°  | 483 | 952 | 488  | 319  | 483  | 223  |
| 35°  | 419 | 563 | 424  | 283  | 419  | 262  |
| 45°  | 334 | 316 | 338  | 253  | 334  | 258  |
| 55°  | 235 | 206 | 239  | 221  | 235  | 211  |
| 65°  | 147 | 133 | 148  | 176  | 147  | 145  |
| 75°  | 72  | 66  | 71   | 109  | 72   | 76   |
| 85°  | 15  | 14  | 14   | 34   | 15   | 17   |
| 90°  | 1   | 11  | 1    | 11   | 1    | 2    |
| 95°  | 20  | 10  | 20   | 10   | 20   | 24   |
| 105° | 107 | 101 | 107  | 101  | 107  | 112  |
| 115° | 200 | 201 | 200  | 201  | 200  | 197  |
| 125° | 281 | 283 | 281  | 283  | 281  | 251  |
| 135° | 348 | 351 | 348  | 351  | 348  | 269  |
| 145° | 402 | 404 | 402  | 404  | 402  | 251  |
| 155° | 440 | 440 | 440  | 440  | 440  | 203  |
| 165° | 465 | 463 | 465  | 463  | 465  | 131  |
| 175° | 475 | 472 | 475  | 472  | 475  | 45   |
| 180° | 475 | 475 | 475  | 475  | 475  |      |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 |
| 2.5°   | 556.3 | 561.8 | 564.1 | 566.0 | 571.9 | 573.8 | 574.2 | 577.0 | 579.3 | 579.8 | 579.8 |
| 5°     | 554.0 | 562.7 | 569.6 | 576.1 | 585.8 | 589.9 | 595.0 | 600.5 | 607.9 | 612.5 | 614.8 |
| 7.5°   | 550.3 | 563.2 | 573.8 | 584.8 | 598.2 | 606.5 | 611.1 | 625.9 | 636.0 | 644.3 | 654.4 |
| 10°    | 544.8 | 561.3 | 576.6 | 592.7 | 611.6 | 621.7 | 631.9 | 649.8 | 664.1 | 680.2 | 693.2 |
| 12.5°  | 536.5 | 558.1 | 576.6 | 599.1 | 622.6 | 634.6 | 646.6 | 677.9 | 694.5 | 708.8 | 731.9 |
| 15°    | 529.1 | 550.7 | 577.0 | 600.1 | 629.1 | 647.1 | 664.6 | 684.9 | 711.1 | 742.0 | 764.1 |
| 17.5°  | 520.8 | 548.0 | 572.4 | 604.7 | 636.9 | 654.0 | 668.3 | 699.6 | 736.5 | 766.9 | 787.2 |
| 20°    | 509.3 | 536.9 | 569.2 | 603.3 | 641.5 | 654.9 | 673.8 | 715.7 | 748.9 | 778.9 | 812.1 |
| 22.5°  | 495.9 | 528.2 | 562.3 | 595.0 | 634.6 | 662.7 | 683.5 | 720.3 | 760.4 | 795.0 | 832.3 |
| 25°    | 483.0 | 518.0 | 548.0 | 592.7 | 634.6 | 653.5 | 677.0 | 720.8 | 764.6 | 806.5 | 844.8 |
| 27.5°  | 469.2 | 501.9 | 542.4 | 577.9 | 625.4 | 646.1 | 671.5 | 719.4 | 766.0 | 807.9 | 848.9 |
| 30°    | 454.0 | 489.0 | 522.6 | 564.6 | 610.7 | 637.4 | 660.9 | 713.0 | 760.4 | 804.2 | 842.5 |
| 32.5°  | 436.9 | 470.1 | 506.0 | 545.7 | 594.1 | 621.3 | 650.8 | 704.2 | 754.9 | 792.7 | 822.2 |
| 35°    | 418.9 | 452.6 | 483.9 | 524.5 | 574.2 | 601.4 | 630.0 | 689.0 | 739.2 | 770.1 | 787.2 |
| 37.5°  | 399.1 | 430.9 | 461.8 | 501.9 | 551.7 | 580.7 | 609.7 | 666.9 | 714.4 | 740.2 | 735.6 |
| 40°    | 380.2 | 408.8 | 437.4 | 475.2 | 527.2 | 558.1 | 583.5 | 641.1 | 682.6 | 693.6 | 678.4 |
| 42.5°  | 358.6 | 383.0 | 410.6 | 449.4 | 500.0 | 529.1 | 560.9 | 613.4 | 644.3 | 639.7 | 613.9 |
| 45°    | 334.1 | 355.8 | 383.4 | 419.9 | 471.5 | 501.4 | 528.2 | 577.9 | 600.5 | 589.0 | 542.0 |
| 47.5°  | 310.6 | 331.8 | 354.4 | 390.8 | 441.1 | 466.4 | 493.6 | 538.3 | 551.2 | 526.8 | 479.8 |
| 50°    | 285.3 | 302.8 | 326.3 | 360.9 | 407.9 | 434.6 | 457.2 | 493.1 | 497.7 | 467.8 | 418.9 |
| 52.5°  | 260.9 | 275.6 | 298.2 | 332.3 | 376.1 | 397.3 | 419.4 | 451.2 | 447.5 | 416.6 | 369.6 |
| 55°    | 235.0 | 248.9 | 269.6 | 301.0 | 339.7 | 359.9 | 378.8 | 407.0 | 399.1 | 367.3 | 326.3 |
| 57.5°  | 213.4 | 223.1 | 243.3 | 272.4 | 304.2 | 326.3 | 342.4 | 364.6 | 352.6 | 320.8 | 282.5 |
| 60°    | 188.5 | 200.5 | 217.5 | 241.0 | 272.4 | 287.1 | 301.4 | 316.2 | 307.9 | 277.4 | 243.3 |
| 62.5°  | 165.9 | 175.1 | 189.9 | 212.5 | 236.9 | 250.3 | 265.5 | 274.7 | 266.4 | 238.3 | 209.7 |
| 65°    | 146.6 | 153.9 | 165.5 | 183.9 | 207.4 | 218.5 | 227.2 | 236.0 | 229.1 | 202.8 | 182.0 |
| 67.5°  | 125.4 | 131.8 | 141.5 | 156.2 | 176.1 | 183.9 | 192.2 | 198.2 | 190.3 | 172.8 | 152.5 |
| 70°    | 106.5 | 111.1 | 120.3 | 131.3 | 145.2 | 152.5 | 159.5 | 165.5 | 158.5 | 143.8 | 128.6 |
| 72.5°  | 87.1  | 90.8  | 99.1  | 106.9 | 119.4 | 124.4 | 129.5 | 134.1 | 131.8 | 118.0 | 105.5 |
| 75°    | 71.9  | 73.3  | 78.8  | 85.3  | 93.1  | 98.6  | 102.3 | 105.1 | 103.2 | 92.2  | 84.3  |
| 77.5°  | 54.4  | 56.2  | 60.4  | 65.4  | 72.4  | 75.6  | 77.9  | 80.7  | 78.3  | 69.6  | 64.1  |
| 80°    | 39.6  | 40.1  | 42.4  | 47.0  | 51.6  | 52.1  | 54.4  | 58.1  | 56.7  | 50.7  | 46.5  |
| 82.5°  | 25.3  | 26.7  | 27.7  | 30.4  | 33.6  | 34.6  | 35.9  | 36.9  | 36.4  | 32.7  | 31.3  |
| 85°    | 14.7  | 14.7  | 15.7  | 17.5  | 18.4  | 19.8  | 20.3  | 20.7  | 21.7  | 19.4  | 18.0  |
| 87.5°  | 6.5   | 6.9   | 6.9   | 7.4   | 8.3   | 8.3   | 8.8   | 9.2   | 9.7   | 9.2   | 7.8   |
| 90°    | 1.1   | 2.0   | 2.8   | 3.7   | 4.6   | 5.0   | 5.3   | 5.9   | 6.6   | 7.2   | 7.8   |
| 92.5°  | 5.3   | 5.1   | 5.0   | 4.8   | 4.7   | 4.6   | 4.9   | 5.6   | 6.2   | 6.9   | 7.5   |
| 95°    | 19.6  | 16.9  | 14.2  | 11.5  | 8.8   | 7.5   | 7.5   | 7.6   | 7.7   | 7.7   | 7.8   |
| 97.5°  | 37.3  | 39.1  | 40.8  | 42.6  | 44.3  | 45.2  | 41.0  | 32.7  | 24.4  | 16.1  | 7.8   |
| 100°   | 58.3  | 59.7  | 61.1  | 62.6  | 64.0  | 64.7  | 59.2  | 48.3  | 37.4  | 26.5  | 15.6  |
| 102.5° | 81.8  | 82.7  | 83.7  | 84.6  | 85.5  | 86.0  | 86.5  | 87.4  | 88.4  | 89.3  | 90.3  |
| 105°   | 107.0 | 107.5 | 108.0 | 108.5 | 109.0 | 109.2 | 109.4 | 109.8 | 110.1 | 110.5 | 110.9 |
| 107.5° | 130.1 | 130.3 | 130.6 | 130.8 | 131.1 | 131.2 | 131.5 | 132.0 | 132.6 | 133.1 | 133.7 |
| 110°   | 153.6 | 153.8 | 154.1 | 154.3 | 154.6 | 154.7 | 154.9 | 155.4 | 155.9 | 156.3 | 156.8 |



TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 176.4 | 176.9 | 177.3 | 177.8 | 178.3 | 178.5 | 178.6 | 178.7 | 178.9 | 179.0 | 179.2 |
| 115°   | 199.8 | 200.0 | 200.3 | 200.5 | 200.8 | 200.9 | 200.9 | 200.8 | 200.7 | 200.6 | 200.5 |
| 117.5° | 220.8 | 221.1 | 221.4 | 221.7 | 222.0 | 222.2 | 222.3 | 222.6 | 222.8 | 223.1 | 223.3 |
| 120°   | 242.1 | 242.4 | 242.8 | 243.1 | 243.4 | 243.6 | 243.6 | 243.5 | 243.4 | 243.3 | 243.2 |
| 122.5° | 262.1 | 262.3 | 262.4 | 262.6 | 262.7 | 262.8 | 262.9 | 263.0 | 263.2 | 263.3 | 263.5 |
| 125°   | 280.9 | 281.2 | 281.5 | 281.8 | 282.1 | 282.3 | 282.2 | 282.1 | 281.9 | 281.8 | 281.6 |
| 127.5° | 299.0 | 299.1 | 299.2 | 299.3 | 299.4 | 299.4 | 299.6 | 300.0 | 300.4 | 300.8 | 301.2 |
| 130°   | 316.5 | 316.6 | 316.6 | 316.7 | 316.8 | 316.8 | 316.9 | 317.2 | 317.4 | 317.7 | 317.9 |
| 132.5° | 332.5 | 332.7 | 332.8 | 333.0 | 333.1 | 333.2 | 333.4 | 333.7 | 334.0 | 334.3 | 334.6 |
| 135°   | 348.5 | 348.4 | 348.3 | 348.2 | 348.1 | 348.1 | 348.3 | 348.6 | 348.9 | 349.2 | 349.5 |
| 137.5° | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 | 362.9 | 363.3 | 363.7 | 364.1 | 364.5 |
| 140°   | 376.5 | 376.7 | 376.9 | 377.0 | 377.2 | 377.3 | 377.4 | 377.5 | 377.7 | 377.8 | 378.0 |
| 142.5° | 389.0 | 389.3 | 389.6 | 389.9 | 390.2 | 390.4 | 390.4 | 390.5 | 390.6 | 390.7 | 390.8 |
| 145°   | 401.8 | 402.0 | 402.3 | 402.5 | 402.8 | 402.9 | 402.9 | 402.9 | 402.9 | 402.9 | 402.9 |
| 147.5° | 411.7 | 412.2 | 412.7 | 413.2 | 413.7 | 413.9 | 413.9 | 413.8 | 413.7 | 413.6 | 413.5 |
| 150°   | 422.8 | 423.1 | 423.4 | 423.7 | 424.0 | 424.2 | 424.2 | 424.1 | 424.0 | 423.9 | 423.8 |
| 152.5° | 432.0 | 432.2 | 432.5 | 432.7 | 433.0 | 433.1 | 433.0 | 432.9 | 432.7 | 432.6 | 432.4 |
| 155°   | 440.5 | 440.6 | 440.7 | 440.8 | 440.9 | 440.9 | 440.8 | 440.5 | 440.3 | 440.0 | 439.8 |
| 157.5° | 448.0 | 448.0 | 448.0 | 448.0 | 448.0 | 448.0 | 447.8 | 447.5 | 447.2 | 446.9 | 446.6 |
| 160°   | 454.4 | 454.2 | 453.9 | 453.7 | 453.4 | 453.3 | 453.3 | 453.2 | 453.1 | 453.1 | 453.0 |
| 162.5° | 460.1 | 459.8 | 459.5 | 459.2 | 458.9 | 458.7 | 458.7 | 458.6 | 458.5 | 458.4 | 458.3 |
| 165°   | 464.7 | 464.3 | 463.9 | 463.5 | 463.1 | 462.9 | 462.9 | 462.9 | 462.9 | 462.9 | 462.9 |
| 167.5° | 468.6 | 468.2 | 467.8 | 467.5 | 467.1 | 466.9 | 466.9 | 466.8 | 466.7 | 466.6 | 466.5 |
| 170°   | 471.8 | 471.3 | 470.9 | 470.4 | 469.9 | 469.7 | 469.7 | 469.8 | 469.9 | 470.0 | 470.1 |
| 172.5° | 474.0 | 473.5 | 473.0 | 472.5 | 472.0 | 471.8 | 471.8 | 471.9 | 472.0 | 472.1 | 472.2 |
| 175°   | 475.4 | 474.9 | 474.5 | 474.0 | 473.5 | 473.3 | 473.3 | 473.4 | 473.5 | 473.5 | 473.6 |
| 177.5° | 476.5 | 475.9 | 475.4 | 474.8 | 474.3 | 474.0 | 474.1 | 474.2 | 474.4 | 474.5 | 474.7 |
| 180°   | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 |
| 2.5°   | 581.2 | 589.5 | 593.1 | 594.1 | 599.1 | 595.9 | 597.3 | 596.8 | 600.5 | 601.0 | 601.0 |
| 5°     | 623.6 | 633.2 | 636.5 | 641.1 | 648.0 | 649.8 | 648.4 | 651.2 | 656.3 | 652.6 | 658.1 |
| 7.5°   | 668.3 | 678.9 | 686.2 | 696.4 | 698.7 | 704.7 | 708.4 | 711.6 | 712.5 | 713.0 | 713.9 |
| 10°    | 709.7 | 723.1 | 733.3 | 750.3 | 754.0 | 757.2 | 773.3 | 766.9 | 775.2 | 772.4 | 773.3 |
| 12.5°  | 743.4 | 769.7 | 778.0 | 806.5 | 809.3 | 820.4 | 819.4 | 829.6 | 831.4 | 835.1 | 831.4 |
| 15°    | 787.6 | 818.1 | 831.4 | 847.5 | 856.8 | 869.7 | 872.0 | 885.8 | 891.3 | 896.4 | 891.3 |
| 17.5°  | 828.2 | 844.3 | 878.4 | 891.3 | 897.3 | 904.2 | 921.7 | 926.8 | 935.1 | 931.9 | 941.1 |
| 20°    | 848.5 | 871.5 | 907.5 | 929.6 | 938.8 | 945.3 | 960.0 | 967.8 | 971.1 | 971.1 | 972.0 |
| 22.5°  | 866.4 | 899.6 | 926.4 | 951.7 | 960.0 | 964.6 | 973.4 | 979.4 | 980.7 | 981.7 | 982.6 |
| 25°    | 882.6 | 912.5 | 934.2 | 948.5 | 951.7 | 951.7 | 956.8 | 953.1 | 947.1 | 951.7 | 954.5 |
| 27.5°  | 882.6 | 903.8 | 913.5 | 918.5 | 918.5 | 906.1 | 898.7 | 883.5 | 870.6 | 866.9 | 875.2 |
| 30°    | 867.8 | 877.5 | 864.1 | 851.7 | 842.0 | 833.7 | 804.7 | 781.6 | 777.0 | 773.8 | 786.3 |
| 32.5°  | 833.7 | 821.3 | 795.0 | 759.1 | 744.8 | 725.9 | 703.3 | 685.8 | 675.2 | 671.5 | 668.7 |
| 35°    | 773.3 | 741.1 | 707.0 | 658.6 | 648.4 | 624.5 | 593.6 | 580.7 | 563.2 | 562.7 | 568.7 |
| 37.5°  | 707.4 | 657.7 | 620.8 | 574.7 | 560.4 | 535.1 | 506.0 | 492.7 | 480.7 | 471.5 | 482.5 |
| 40°    | 630.5 | 587.2 | 530.9 | 493.1 | 472.9 | 459.5 | 435.1 | 420.3 | 414.8 | 410.2 | 417.1 |
| 42.5°  | 558.6 | 511.1 | 467.3 | 428.6 | 412.0 | 396.8 | 380.7 | 366.4 | 362.2 | 361.8 | 366.9 |
| 45°    | 487.1 | 440.6 | 400.0 | 366.9 | 356.3 | 347.0 | 331.4 | 327.2 | 320.3 | 315.7 | 318.0 |
| 47.5°  | 430.0 | 382.1 | 348.4 | 323.1 | 313.9 | 306.0 | 295.9 | 289.0 | 283.0 | 281.1 | 283.9 |
| 50°    | 373.8 | 341.5 | 306.9 | 285.7 | 278.8 | 271.5 | 263.6 | 257.2 | 254.4 | 252.6 | 254.4 |
| 52.5°  | 328.6 | 294.0 | 270.5 | 253.5 | 246.6 | 241.0 | 235.5 | 232.7 | 229.1 | 230.0 | 231.8 |
| 55°    | 288.0 | 257.6 | 237.8 | 225.4 | 221.2 | 218.9 | 212.0 | 208.8 | 207.4 | 206.5 | 207.4 |
| 57.5°  | 249.8 | 227.7 | 212.9 | 202.3 | 196.8 | 195.4 | 189.9 | 189.9 | 188.5 | 187.1 | 187.6 |
| 60°    | 219.4 | 200.5 | 186.2 | 177.9 | 177.0 | 174.7 | 171.0 | 170.5 | 167.3 | 168.7 | 169.1 |
| 62.5°  | 188.5 | 173.3 | 163.6 | 158.5 | 155.3 | 154.4 | 152.1 | 151.6 | 150.2 | 150.7 | 149.8 |
| 65°    | 164.1 | 151.6 | 141.9 | 137.8 | 136.4 | 136.0 | 134.1 | 132.7 | 131.8 | 132.7 | 131.8 |
| 67.5°  | 139.6 | 131.3 | 124.0 | 119.8 | 118.0 | 117.5 | 116.1 | 115.2 | 115.7 | 114.3 | 115.2 |
| 70°    | 116.6 | 108.3 | 103.7 | 101.4 | 100.5 | 99.1  | 99.1  | 99.1  | 99.1  | 98.2  | 97.7  |
| 72.5°  | 98.2  | 89.9  | 86.6  | 85.3  | 84.3  | 83.9  | 82.5  | 83.0  | 82.5  | 82.0  | 83.9  |
| 75°    | 77.9  | 72.8  | 69.6  | 68.2  | 69.1  | 67.7  | 66.4  | 67.3  | 65.9  | 66.4  | 68.2  |
| 77.5°  | 59.0  | 56.7  | 54.8  | 53.9  | 53.0  | 52.1  | 52.1  | 51.2  | 51.2  | 51.2  | 51.2  |
| 80°    | 42.9  | 42.4  | 39.2  | 38.7  | 38.7  | 37.8  | 37.8  | 37.8  | 37.8  | 37.3  | 37.8  |
| 82.5°  | 28.6  | 28.1  | 27.2  | 26.7  | 25.8  | 26.3  | 26.3  | 25.3  | 25.3  | 24.9  | 25.3  |
| 85°    | 16.6  | 16.6  | 15.7  | 15.2  | 14.7  | 15.2  | 14.3  | 13.8  | 14.3  | 13.8  | 14.3  |
| 87.5°  | 7.8   | 6.9   | 7.4   | 6.9   | 6.0   | 6.5   | 5.5   | 6.0   | 5.5   | 5.1   | 6.0   |
| 90°    | 8.3   | 8.8   | 9.3   | 9.8   | 10.0  | 10.1  | 10.2  | 10.4  | 10.5  | 10.7  | 10.5  |
| 92.5°  | 8.0   | 8.4   | 8.9   | 9.4   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   |
| 95°    | 8.3   | 8.8   | 9.3   | 9.8   | 10.0  | 10.0  | 10.1  | 10.2  | 10.2  | 10.3  | 10.2  |
| 97.5°  | 8.2   | 8.6   | 9.0   | 9.4   | 9.6   | 9.6   | 9.7   | 9.8   | 9.9   | 10.0  | 9.9   |
| 100°   | 14.3  | 12.9  | 11.6  | 10.3  | 9.6   | 9.6   | 9.7   | 9.8   | 9.9   | 10.0  | 9.9   |
| 102.5° | 72.5  | 54.7  | 37.0  | 19.2  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  |
| 105°   | 111.6 | 112.3 | 113.0 | 113.7 | 114.1 | 112.7 | 109.8 | 107.0 | 104.1 | 101.3 | 104.1 |
| 107.5° | 134.1 | 134.5 | 134.9 | 135.3 | 135.5 | 135.7 | 136.0 | 136.3 | 136.6 | 136.9 | 136.6 |
| 110°   | 157.0 | 157.1 | 157.3 | 157.4 | 157.5 | 157.6 | 157.9 | 158.1 | 158.4 | 158.6 | 158.4 |



TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 179.1 | 179.0 | 178.9 | 178.8 | 178.8 | 179.0 | 179.3 | 179.6 | 180.0 | 180.3 | 180.0 |
| 115°   | 200.7 | 200.8 | 201.0 | 201.1 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 |
| 117.5° | 223.2 | 223.1 | 223.0 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 |
| 120°   | 243.4 | 243.5 | 243.7 | 243.8 | 243.9 | 243.8 | 243.7 | 243.5 | 243.4 | 243.2 | 243.4 |
| 122.5° | 263.6 | 263.6 | 263.7 | 263.8 | 263.8 | 263.7 | 263.6 | 263.4 | 263.3 | 263.1 | 263.3 |
| 125°   | 281.8 | 282.1 | 282.3 | 282.6 | 282.7 | 282.7 | 282.8 | 282.9 | 282.9 | 283.0 | 282.9 |
| 127.5° | 301.1 | 301.0 | 300.9 | 300.8 | 300.8 | 300.8 | 300.7 | 300.6 | 300.6 | 300.5 | 300.6 |
| 130°   | 318.0 | 318.0 | 318.1 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 |
| 132.5° | 334.7 | 334.7 | 334.8 | 334.9 | 334.9 | 334.9 | 334.8 | 334.7 | 334.7 | 334.6 | 334.7 |
| 135°   | 349.7 | 349.8 | 350.0 | 350.1 | 350.2 | 350.3 | 350.4 | 350.6 | 350.7 | 350.9 | 350.7 |
| 137.5° | 364.7 | 364.8 | 365.0 | 365.1 | 365.2 | 365.2 | 365.1 | 365.0 | 364.9 | 364.8 | 364.9 |
| 140°   | 378.2 | 378.4 | 378.7 | 378.9 | 379.0 | 379.0 | 379.1 | 379.2 | 379.3 | 379.4 | 379.3 |
| 142.5° | 391.0 | 391.1 | 391.3 | 391.4 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 |
| 145°   | 403.0 | 403.0 | 403.1 | 403.2 | 403.2 | 403.3 | 403.4 | 403.6 | 403.7 | 403.9 | 403.7 |
| 147.5° | 413.6 | 413.7 | 413.8 | 413.9 | 413.9 | 413.9 | 414.0 | 414.1 | 414.1 | 414.2 | 414.1 |
| 150°   | 423.8 | 423.8 | 423.8 | 423.8 | 423.8 | 423.8 | 423.9 | 424.0 | 424.1 | 424.2 | 424.1 |
| 152.5° | 432.6 | 432.7 | 432.9 | 433.0 | 433.1 | 433.1 | 433.0 | 432.9 | 432.8 | 432.7 | 432.8 |
| 155°   | 440.1 | 440.5 | 440.8 | 441.1 | 441.3 | 441.2 | 440.9 | 440.7 | 440.4 | 440.2 | 440.4 |
| 157.5° | 447.0 | 447.4 | 447.8 | 448.2 | 448.4 | 448.2 | 447.8 | 447.4 | 447.0 | 446.6 | 447.0 |
| 160°   | 453.5 | 453.9 | 454.4 | 454.9 | 455.1 | 454.9 | 454.4 | 453.9 | 453.5 | 453.0 | 453.5 |
| 162.5° | 458.8 | 459.3 | 459.8 | 460.3 | 460.5 | 460.2 | 459.7 | 459.1 | 458.6 | 458.0 | 458.6 |
| 165°   | 463.5 | 464.2 | 464.8 | 465.5 | 465.8 | 465.4 | 464.7 | 464.0 | 463.3 | 462.6 | 463.3 |
| 167.5° | 467.2 | 467.9 | 468.6 | 469.3 | 469.7 | 469.3 | 468.5 | 467.7 | 466.9 | 466.1 | 466.9 |
| 170°   | 470.7 | 471.3 | 472.0 | 472.6 | 472.9 | 472.5 | 471.7 | 470.9 | 470.1 | 469.3 | 470.1 |
| 172.5° | 472.8 | 473.4 | 474.1 | 474.7 | 475.0 | 474.6 | 473.7 | 472.8 | 472.0 | 471.1 | 472.0 |
| 175°   | 474.3 | 475.0 | 475.7 | 476.4 | 476.8 | 476.3 | 475.4 | 474.4 | 473.5 | 472.5 | 473.5 |
| 177.5° | 475.3 | 475.9 | 476.6 | 477.2 | 477.5 | 477.0 | 476.1 | 475.2 | 474.2 | 473.3 | 474.2 |
| 180°   | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 556.3 | 556.3 | 556.3 | 556.3  | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 |
| 2.5°   | 600.1 | 598.7 | 596.8 | 596.8  | 594.5 | 594.5 | 590.8 | 584.4 | 578.9 | 577.0 | 577.9 |
| 5°     | 651.2 | 651.7 | 648.9 | 646.6  | 642.5 | 639.2 | 633.2 | 621.7 | 618.0 | 610.7 | 605.6 |
| 7.5°   | 709.7 | 707.9 | 702.8 | 699.1  | 698.2 | 690.8 | 677.9 | 664.1 | 653.1 | 645.7 | 635.1 |
| 10°    | 775.7 | 768.3 | 760.9 | 758.6  | 753.1 | 740.6 | 725.9 | 710.7 | 695.5 | 679.3 | 661.4 |
| 12.5°  | 831.0 | 816.7 | 816.2 | 810.7  | 800.1 | 793.2 | 775.7 | 754.0 | 727.7 | 709.7 | 689.5 |
| 15°    | 890.4 | 877.0 | 866.0 | 855.8  | 850.8 | 830.5 | 815.7 | 788.6 | 757.2 | 737.9 | 724.0 |
| 17.5°  | 932.8 | 926.8 | 907.9 | 903.3  | 896.4 | 872.9 | 849.4 | 822.7 | 795.5 | 768.3 | 730.9 |
| 20°    | 966.9 | 963.2 | 950.8 | 944.3  | 933.3 | 914.8 | 886.3 | 855.4 | 824.0 | 785.3 | 750.3 |
| 22.5°  | 981.7 | 977.1 | 966.9 | 961.4  | 954.5 | 938.8 | 914.4 | 879.3 | 838.3 | 803.8 | 766.4 |
| 25°    | 952.6 | 960.9 | 958.2 | 955.9  | 953.1 | 943.9 | 925.4 | 894.6 | 854.5 | 815.3 | 768.7 |
| 27.5°  | 887.2 | 901.5 | 915.3 | 917.1  | 921.7 | 925.4 | 918.1 | 895.9 | 862.3 | 820.8 | 769.7 |
| 30°    | 799.2 | 805.6 | 833.7 | 842.0  | 848.5 | 872.0 | 885.8 | 880.3 | 854.5 | 817.1 | 770.1 |
| 32.5°  | 686.2 | 703.3 | 731.9 | 751.7  | 769.2 | 795.5 | 831.4 | 845.7 | 836.5 | 806.1 | 759.5 |
| 35°    | 579.3 | 599.6 | 632.8 | 658.1  | 675.6 | 713.0 | 755.4 | 786.3 | 797.8 | 782.6 | 741.1 |
| 37.5°  | 491.8 | 516.2 | 545.7 | 555.4  | 575.6 | 621.7 | 680.2 | 723.1 | 751.2 | 752.6 | 720.3 |
| 40°    | 425.8 | 438.3 | 461.8 | 476.5  | 496.4 | 535.1 | 592.2 | 648.9 | 691.3 | 705.6 | 688.5 |
| 42.5°  | 370.1 | 379.8 | 397.3 | 415.2  | 433.2 | 462.7 | 515.3 | 568.3 | 625.4 | 654.0 | 653.5 |
| 45°    | 325.8 | 336.0 | 348.0 | 362.7  | 375.2 | 407.0 | 448.4 | 502.8 | 552.1 | 596.4 | 607.4 |
| 47.5°  | 287.1 | 295.9 | 310.6 | 317.1  | 325.4 | 355.3 | 391.3 | 442.0 | 493.1 | 543.8 | 556.7 |
| 50°    | 258.6 | 265.9 | 276.1 | 280.2  | 289.4 | 311.6 | 341.0 | 382.1 | 438.8 | 485.3 | 509.3 |
| 52.5°  | 232.7 | 238.3 | 246.1 | 249.3  | 255.8 | 272.4 | 299.1 | 331.4 | 378.4 | 426.3 | 460.0 |
| 55°    | 210.6 | 214.3 | 219.8 | 223.5  | 228.1 | 242.9 | 262.7 | 291.7 | 332.3 | 373.8 | 406.5 |
| 57.5°  | 189.9 | 192.6 | 198.2 | 200.0  | 203.7 | 215.2 | 229.1 | 253.5 | 290.8 | 327.7 | 359.5 |
| 60°    | 170.5 | 172.4 | 175.6 | 179.7  | 182.5 | 190.3 | 203.2 | 223.5 | 253.5 | 287.1 | 312.9 |
| 62.5°  | 152.1 | 154.9 | 155.8 | 157.6  | 159.9 | 167.3 | 177.4 | 192.2 | 218.5 | 246.1 | 273.3 |
| 65°    | 133.2 | 135.5 | 137.3 | 137.8  | 140.1 | 145.6 | 154.9 | 167.8 | 184.8 | 208.8 | 234.1 |
| 67.5°  | 115.7 | 117.1 | 118.0 | 119.8  | 122.1 | 124.9 | 132.3 | 141.9 | 157.6 | 177.0 | 197.3 |
| 70°    | 99.5  | 99.5  | 100.9 | 101.4  | 104.2 | 107.4 | 110.6 | 119.8 | 133.7 | 149.3 | 163.1 |
| 72.5°  | 82.0  | 84.3  | 83.9  | 86.2   | 85.7  | 88.0  | 92.2  | 98.2  | 108.3 | 120.7 | 134.1 |
| 75°    | 66.8  | 68.2  | 68.2  | 68.2   | 69.1  | 71.0  | 73.3  | 78.8  | 86.6  | 96.8  | 104.6 |
| 77.5°  | 52.1  | 53.0  | 53.0  | 53.0   | 53.5  | 55.3  | 57.6  | 61.3  | 66.8  | 72.8  | 77.4  |
| 80°    | 37.3  | 38.3  | 38.3  | 39.2   | 39.2  | 39.6  | 41.9  | 43.8  | 46.5  | 51.2  | 55.8  |
| 82.5°  | 25.3  | 25.8  | 26.7  | 26.7   | 26.3  | 27.2  | 27.7  | 29.5  | 32.3  | 33.2  | 36.4  |
| 85°    | 13.8  | 14.3  | 14.7  | 14.7   | 15.2  | 16.1  | 15.7  | 17.5  | 17.5  | 19.4  | 20.3  |
| 87.5°  | 5.5   | 6.5   | 6.5   | 6.0    | 6.5   | 6.5   | 6.5   | 7.4   | 7.8   | 8.3   | 7.8   |
| 90°    | 10.4  | 10.2  | 10.1  | 10.0   | 9.8   | 9.3   | 8.8   | 8.3   | 7.8   | 7.2   | 6.6   |
| 92.5°  | 9.6   | 9.6   | 9.6   | 9.6    | 9.4   | 8.9   | 8.4   | 8.0   | 7.5   | 6.9   | 6.2   |
| 95°    | 10.2  | 10.1  | 10.0  | 10.0   | 9.8   | 9.3   | 8.8   | 8.3   | 7.8   | 7.7   | 7.7   |
| 97.5°  | 9.8   | 9.7   | 9.6   | 9.6    | 9.4   | 9.0   | 8.6   | 8.2   | 7.8   | 16.1  | 24.4  |
| 100°   | 9.8   | 9.7   | 9.6   | 9.6    | 10.3  | 11.6  | 12.9  | 14.3  | 15.6  | 26.5  | 37.4  |
| 102.5° | 10.3  | 10.3  | 10.3  | 10.3   | 19.2  | 37.0  | 54.7  | 72.5  | 90.3  | 89.3  | 88.4  |
| 105°   | 107.0 | 109.8 | 112.7 | 114.1  | 113.7 | 113.0 | 112.3 | 111.6 | 110.9 | 110.5 | 110.1 |
| 107.5° | 136.3 | 136.0 | 135.7 | 135.5  | 135.3 | 134.9 | 134.5 | 134.1 | 133.7 | 133.1 | 132.6 |
| 110°   | 158.1 | 157.9 | 157.6 | 157.5  | 157.4 | 157.3 | 157.1 | 157.0 | 156.8 | 156.3 | 155.9 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 179.6 | 179.3 | 179.0 | 178.8  | 178.8 | 178.9 | 179.0 | 179.1 | 179.2 | 179.0 | 178.9 |
| 115°   | 201.2 | 201.2 | 201.2 | 201.2  | 201.1 | 201.0 | 200.8 | 200.7 | 200.5 | 200.6 | 200.7 |
| 117.5° | 222.9 | 222.9 | 222.9 | 222.9  | 222.9 | 223.0 | 223.1 | 223.2 | 223.3 | 223.1 | 222.8 |
| 120°   | 243.5 | 243.7 | 243.8 | 243.9  | 243.8 | 243.7 | 243.5 | 243.4 | 243.2 | 243.3 | 243.4 |
| 122.5° | 263.4 | 263.6 | 263.7 | 263.8  | 263.8 | 263.7 | 263.6 | 263.6 | 263.5 | 263.3 | 263.2 |
| 125°   | 282.9 | 282.8 | 282.7 | 282.7  | 282.6 | 282.3 | 282.1 | 281.8 | 281.6 | 281.8 | 281.9 |
| 127.5° | 300.6 | 300.7 | 300.8 | 300.8  | 300.8 | 300.9 | 301.0 | 301.1 | 301.2 | 300.8 | 300.4 |
| 130°   | 318.2 | 318.2 | 318.2 | 318.2  | 318.2 | 318.1 | 318.0 | 318.0 | 317.9 | 317.7 | 317.4 |
| 132.5° | 334.7 | 334.8 | 334.9 | 334.9  | 334.9 | 334.8 | 334.7 | 334.7 | 334.6 | 334.3 | 334.0 |
| 135°   | 350.6 | 350.4 | 350.3 | 350.2  | 350.1 | 350.0 | 349.8 | 349.7 | 349.5 | 349.2 | 348.9 |
| 137.5° | 365.0 | 365.1 | 365.2 | 365.2  | 365.1 | 365.0 | 364.8 | 364.7 | 364.5 | 364.1 | 363.7 |
| 140°   | 379.2 | 379.1 | 379.0 | 379.0  | 378.9 | 378.7 | 378.4 | 378.2 | 378.0 | 377.8 | 377.7 |
| 142.5° | 391.5 | 391.5 | 391.5 | 391.5  | 391.4 | 391.3 | 391.1 | 391.0 | 390.8 | 390.7 | 390.6 |
| 145°   | 403.6 | 403.4 | 403.3 | 403.2  | 403.2 | 403.1 | 403.0 | 403.0 | 402.9 | 402.9 | 402.9 |
| 147.5° | 414.1 | 414.0 | 413.9 | 413.9  | 413.9 | 413.8 | 413.7 | 413.6 | 413.5 | 413.6 | 413.7 |
| 150°   | 424.0 | 423.9 | 423.8 | 423.8  | 423.8 | 423.8 | 423.8 | 423.8 | 423.8 | 423.9 | 424.0 |
| 152.5° | 432.9 | 433.0 | 433.1 | 433.1  | 433.0 | 432.9 | 432.7 | 432.6 | 432.4 | 432.6 | 432.7 |
| 155°   | 440.7 | 440.9 | 441.2 | 441.3  | 441.1 | 440.8 | 440.5 | 440.1 | 439.8 | 440.0 | 440.3 |
| 157.5° | 447.4 | 447.8 | 448.2 | 448.4  | 448.2 | 447.8 | 447.4 | 447.0 | 446.6 | 446.9 | 447.2 |
| 160°   | 453.9 | 454.4 | 454.9 | 455.1  | 454.9 | 454.4 | 453.9 | 453.5 | 453.0 | 453.1 | 453.1 |
| 162.5° | 459.1 | 459.7 | 460.2 | 460.5  | 460.3 | 459.8 | 459.3 | 458.8 | 458.3 | 458.4 | 458.5 |
| 165°   | 464.0 | 464.7 | 465.4 | 465.8  | 465.5 | 464.8 | 464.2 | 463.5 | 462.9 | 462.9 | 462.9 |
| 167.5° | 467.7 | 468.5 | 469.3 | 469.7  | 469.3 | 468.6 | 467.9 | 467.2 | 466.5 | 466.6 | 466.7 |
| 170°   | 470.9 | 471.7 | 472.5 | 472.9  | 472.6 | 472.0 | 471.3 | 470.7 | 470.1 | 470.0 | 469.9 |
| 172.5° | 472.8 | 473.7 | 474.6 | 475.0  | 474.7 | 474.1 | 473.4 | 472.8 | 472.2 | 472.1 | 472.0 |
| 175°   | 474.4 | 475.4 | 476.3 | 476.8  | 476.4 | 475.7 | 475.0 | 474.3 | 473.6 | 473.5 | 473.5 |
| 177.5° | 475.2 | 476.1 | 477.0 | 477.5  | 477.2 | 476.6 | 475.9 | 475.3 | 474.7 | 474.5 | 474.4 |
| 180°   | 475.4 | 475.4 | 475.4 | 475.4  | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 556.3 | 556.3 | 556.3  | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 |
| 2.5°   | 573.8 | 571.9 | 570.6  | 570.6 | 566.4 | 562.3 | 560.0 | 559.0 | 558.1 | 554.4 | 549.4 |
| 5°     | 597.3 | 591.3 | 587.2  | 583.0 | 576.1 | 568.7 | 561.3 | 557.2 | 551.2 | 542.9 | 536.9 |
| 7.5°   | 623.6 | 609.3 | 604.7  | 599.6 | 585.8 | 573.3 | 563.2 | 554.4 | 544.8 | 534.2 | 523.6 |
| 10°    | 645.7 | 630.5 | 620.3  | 611.6 | 593.6 | 577.0 | 561.8 | 548.9 | 536.5 | 522.6 | 509.7 |
| 12.5°  | 666.9 | 645.2 | 634.6  | 621.7 | 602.8 | 578.9 | 559.0 | 542.9 | 524.5 | 510.2 | 494.5 |
| 15°    | 696.4 | 660.0 | 642.5  | 634.2 | 608.8 | 580.7 | 556.7 | 532.8 | 517.6 | 495.9 | 482.1 |
| 17.5°  | 701.0 | 671.5 | 660.0  | 638.8 | 608.4 | 576.6 | 548.9 | 524.9 | 501.9 | 482.5 | 464.6 |
| 20°    | 717.1 | 678.4 | 660.0  | 646.6 | 606.5 | 574.2 | 543.8 | 513.0 | 490.8 | 470.1 | 449.8 |
| 22.5°  | 727.3 | 683.5 | 664.1  | 642.9 | 604.7 | 566.0 | 530.0 | 503.3 | 476.1 | 454.9 | 438.8 |
| 25°    | 724.5 | 680.7 | 659.0  | 639.2 | 592.7 | 554.0 | 521.7 | 487.6 | 462.3 | 439.2 | 418.0 |
| 27.5°  | 723.1 | 673.8 | 650.8  | 628.6 | 584.8 | 544.3 | 503.7 | 476.1 | 448.0 | 421.2 | 405.6 |
| 30°    | 719.4 | 665.0 | 638.3  | 614.3 | 568.7 | 526.3 | 491.8 | 459.5 | 431.4 | 407.0 | 386.2 |
| 32.5°  | 707.0 | 650.3 | 624.5  | 598.7 | 551.2 | 508.8 | 473.8 | 443.8 | 415.7 | 390.4 | 370.5 |
| 35°    | 690.4 | 632.8 | 604.7  | 577.5 | 530.0 | 487.1 | 454.9 | 423.5 | 397.3 | 372.8 | 354.0 |
| 37.5°  | 673.8 | 612.5 | 586.2  | 554.9 | 511.1 | 466.4 | 433.2 | 405.1 | 380.7 | 355.3 | 334.6 |
| 40°    | 649.8 | 588.5 | 559.5  | 532.8 | 481.6 | 439.7 | 409.3 | 383.9 | 359.9 | 336.0 | 318.5 |
| 42.5°  | 617.1 | 562.3 | 532.3  | 502.8 | 454.9 | 413.4 | 383.9 | 361.3 | 338.7 | 318.9 | 299.6 |
| 45°    | 583.9 | 530.5 | 503.7  | 477.5 | 425.4 | 386.2 | 359.0 | 338.3 | 319.4 | 297.7 | 282.1 |
| 47.5°  | 543.8 | 498.7 | 471.9  | 446.1 | 396.8 | 357.6 | 332.8 | 313.4 | 295.9 | 277.9 | 263.2 |
| 50°    | 502.8 | 463.6 | 439.2  | 412.5 | 365.5 | 330.0 | 305.6 | 289.4 | 275.1 | 258.1 | 246.1 |
| 52.5°  | 458.6 | 424.5 | 403.7  | 377.9 | 336.4 | 303.7 | 278.8 | 262.7 | 250.7 | 238.3 | 227.7 |
| 55°    | 411.6 | 386.7 | 364.6  | 343.8 | 304.6 | 275.1 | 253.0 | 238.7 | 230.4 | 218.9 | 209.7 |
| 57.5°  | 369.2 | 345.2 | 331.8  | 308.3 | 274.2 | 245.2 | 227.7 | 215.7 | 206.0 | 199.1 | 191.7 |
| 60°    | 324.9 | 305.6 | 290.8  | 273.8 | 243.8 | 219.4 | 200.9 | 194.0 | 183.9 | 178.8 | 175.6 |
| 62.5°  | 282.5 | 268.7 | 254.9  | 242.0 | 215.2 | 192.2 | 178.4 | 169.6 | 163.6 | 158.5 | 155.8 |
| 65°    | 242.4 | 229.5 | 219.8  | 208.3 | 186.2 | 167.8 | 154.9 | 147.9 | 141.9 | 140.6 | 137.3 |
| 67.5°  | 203.2 | 197.7 | 187.1  | 177.9 | 159.0 | 144.7 | 135.0 | 126.3 | 123.1 | 121.7 | 118.9 |
| 70°    | 170.1 | 163.6 | 155.3  | 147.5 | 133.2 | 120.7 | 112.0 | 108.8 | 104.2 | 103.7 | 100.5 |
| 72.5°  | 140.1 | 132.3 | 126.3  | 120.3 | 109.7 | 98.6  | 94.0  | 89.4  | 87.1  | 85.3  | 83.9  |
| 75°    | 111.1 | 105.5 | 101.4  | 96.3  | 87.1  | 79.7  | 73.3  | 71.4  | 70.1  | 69.6  | 68.7  |
| 77.5°  | 83.0  | 79.3  | 77.4   | 72.4  | 65.9  | 59.5  | 56.7  | 53.9  | 53.9  | 53.0  | 53.5  |
| 80°    | 59.0  | 56.7  | 54.4   | 51.6  | 46.1  | 43.3  | 41.0  | 39.2  | 38.3  | 37.8  | 38.3  |
| 82.5°  | 37.3  | 35.9  | 35.5   | 33.6  | 30.0  | 28.6  | 26.7  | 25.3  | 25.3  | 25.3  | 25.3  |
| 85°    | 20.7  | 20.7  | 20.7   | 18.0  | 16.6  | 15.2  | 14.3  | 13.8  | 13.8  | 13.8  | 14.3  |
| 87.5°  | 8.8   | 8.8   | 7.4    | 7.4   | 6.9   | 6.0   | 5.5   | 5.5   | 6.0   | 6.0   | 6.5   |
| 90°    | 5.9   | 5.3   | 5.0    | 4.6   | 3.7   | 2.8   | 2.0   | 1.1   | 2.0   | 2.8   | 3.7   |
| 92.5°  | 5.6   | 4.9   | 4.6    | 4.7   | 4.8   | 5.0   | 5.1   | 5.3   | 5.1   | 5.0   | 4.8   |
| 95°    | 7.6   | 7.5   | 7.5    | 8.8   | 11.5  | 14.2  | 16.9  | 19.6  | 16.9  | 14.2  | 11.5  |
| 97.5°  | 32.7  | 41.0  | 45.2   | 44.3  | 42.6  | 40.8  | 39.1  | 37.3  | 39.1  | 40.8  | 42.6  |
| 100°   | 48.3  | 59.2  | 64.7   | 64.0  | 62.6  | 61.1  | 59.7  | 58.3  | 59.7  | 61.1  | 62.6  |
| 102.5° | 87.4  | 86.5  | 86.0   | 85.5  | 84.6  | 83.7  | 82.7  | 81.8  | 82.7  | 83.7  | 84.6  |
| 105°   | 109.8 | 109.4 | 109.2  | 109.0 | 108.5 | 108.0 | 107.5 | 107.0 | 107.5 | 108.0 | 108.5 |
| 107.5° | 132.0 | 131.5 | 131.2  | 131.1 | 130.8 | 130.6 | 130.3 | 130.1 | 130.3 | 130.6 | 130.8 |
| 110°   | 155.4 | 154.9 | 154.7  | 154.6 | 154.3 | 154.1 | 153.8 | 153.6 | 153.8 | 154.1 | 154.3 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 178.7 | 178.6 | 178.5  | 178.3 | 177.8 | 177.3 | 176.9 | 176.4 | 176.9 | 177.3 | 177.8 |
| 115°   | 200.8 | 200.9 | 200.9  | 200.8 | 200.5 | 200.3 | 200.0 | 199.8 | 200.0 | 200.3 | 200.5 |
| 117.5° | 222.6 | 222.3 | 222.2  | 222.0 | 221.7 | 221.4 | 221.1 | 220.8 | 221.1 | 221.4 | 221.7 |
| 120°   | 243.5 | 243.6 | 243.6  | 243.4 | 243.1 | 242.8 | 242.4 | 242.1 | 242.4 | 242.8 | 243.1 |
| 122.5° | 263.0 | 262.9 | 262.8  | 262.7 | 262.6 | 262.4 | 262.3 | 262.1 | 262.3 | 262.4 | 262.6 |
| 125°   | 282.1 | 282.2 | 282.3  | 282.1 | 281.8 | 281.5 | 281.2 | 280.9 | 281.2 | 281.5 | 281.8 |
| 127.5° | 300.0 | 299.6 | 299.4  | 299.4 | 299.3 | 299.2 | 299.1 | 299.0 | 299.1 | 299.2 | 299.3 |
| 130°   | 317.2 | 316.9 | 316.8  | 316.8 | 316.7 | 316.6 | 316.6 | 316.5 | 316.6 | 316.6 | 316.7 |
| 132.5° | 333.7 | 333.4 | 333.2  | 333.1 | 333.0 | 332.8 | 332.7 | 332.5 | 332.7 | 332.8 | 333.0 |
| 135°   | 348.6 | 348.3 | 348.1  | 348.1 | 348.2 | 348.3 | 348.4 | 348.5 | 348.4 | 348.3 | 348.2 |
| 137.5° | 363.3 | 362.9 | 362.7  | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 |
| 140°   | 377.5 | 377.4 | 377.3  | 377.2 | 377.0 | 376.9 | 376.7 | 376.5 | 376.7 | 376.9 | 377.0 |
| 142.5° | 390.5 | 390.4 | 390.4  | 390.2 | 389.9 | 389.6 | 389.3 | 389.0 | 389.3 | 389.6 | 389.9 |
| 145°   | 402.9 | 402.9 | 402.9  | 402.8 | 402.5 | 402.3 | 402.0 | 401.8 | 402.0 | 402.3 | 402.5 |
| 147.5° | 413.8 | 413.9 | 413.9  | 413.7 | 413.2 | 412.7 | 412.2 | 411.7 | 412.2 | 412.7 | 413.2 |
| 150°   | 424.1 | 424.2 | 424.2  | 424.0 | 423.7 | 423.4 | 423.1 | 422.8 | 423.1 | 423.4 | 423.7 |
| 152.5° | 432.9 | 433.0 | 433.1  | 433.0 | 432.7 | 432.5 | 432.2 | 432.0 | 432.2 | 432.5 | 432.7 |
| 155°   | 440.5 | 440.8 | 440.9  | 440.9 | 440.8 | 440.7 | 440.6 | 440.5 | 440.6 | 440.7 | 440.8 |
| 157.5° | 447.5 | 447.8 | 448.0  | 448.0 | 448.0 | 448.0 | 448.0 | 448.0 | 448.0 | 448.0 | 448.0 |
| 160°   | 453.2 | 453.3 | 453.3  | 453.4 | 453.7 | 453.9 | 454.2 | 454.4 | 454.2 | 453.9 | 453.7 |
| 162.5° | 458.6 | 458.7 | 458.7  | 458.9 | 459.2 | 459.5 | 459.8 | 460.1 | 459.8 | 459.5 | 459.2 |
| 165°   | 462.9 | 462.9 | 462.9  | 463.1 | 463.5 | 463.9 | 464.3 | 464.7 | 464.3 | 463.9 | 463.5 |
| 167.5° | 466.8 | 466.9 | 466.9  | 467.1 | 467.5 | 467.8 | 468.2 | 468.6 | 468.2 | 467.8 | 467.5 |
| 170°   | 469.8 | 469.7 | 469.7  | 469.9 | 470.4 | 470.9 | 471.3 | 471.8 | 471.3 | 470.9 | 470.4 |
| 172.5° | 471.9 | 471.8 | 471.8  | 472.0 | 472.5 | 473.0 | 473.5 | 474.0 | 473.5 | 473.0 | 472.5 |
| 175°   | 473.4 | 473.3 | 473.3  | 473.5 | 474.0 | 474.5 | 474.9 | 475.4 | 474.9 | 474.5 | 474.0 |
| 177.5° | 474.2 | 474.1 | 474.0  | 474.3 | 474.8 | 475.4 | 475.9 | 476.5 | 475.9 | 475.4 | 474.8 |
| 180°   | 475.4 | 475.4 | 475.4  | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 556.3 | 556.3  | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 |
| 2.5°   | 548.0 | 546.1  | 547.1 | 542.4 | 538.3 | 532.3 | 527.2 | 526.3 | 525.4 | 528.2 | 526.3 |
| 5°     | 532.3 | 530.0  | 527.7 | 522.2 | 513.9 | 508.8 | 501.4 | 501.0 | 498.2 | 494.1 | 495.0 |
| 7.5°   | 515.3 | 513.9  | 510.6 | 501.9 | 494.5 | 485.8 | 479.8 | 474.7 | 472.4 | 468.7 | 467.3 |
| 10°    | 501.4 | 496.4  | 493.6 | 483.9 | 475.2 | 465.9 | 458.1 | 454.4 | 450.3 | 447.0 | 444.7 |
| 12.5°  | 482.5 | 481.2  | 473.3 | 465.5 | 458.1 | 447.5 | 441.5 | 430.9 | 425.4 | 428.2 | 427.2 |
| 15°    | 470.1 | 463.6  | 461.8 | 450.7 | 438.3 | 431.4 | 420.3 | 413.4 | 411.1 | 407.0 | 401.9 |
| 17.5°  | 453.5 | 449.4  | 442.9 | 432.8 | 418.5 | 408.8 | 401.0 | 394.5 | 391.7 | 386.2 | 382.1 |
| 20°    | 437.8 | 430.9  | 425.8 | 416.6 | 402.8 | 390.4 | 380.7 | 376.5 | 369.6 | 365.0 | 362.7 |
| 22.5°  | 423.5 | 418.5  | 411.1 | 397.3 | 385.3 | 373.3 | 361.8 | 355.8 | 349.3 | 346.6 | 342.9 |
| 25°    | 406.0 | 397.7  | 392.7 | 377.5 | 364.6 | 354.9 | 344.3 | 336.4 | 332.8 | 328.1 | 327.2 |
| 27.5°  | 389.0 | 381.1  | 375.2 | 361.8 | 346.1 | 333.7 | 327.2 | 321.7 | 315.2 | 315.2 | 312.9 |
| 30°    | 371.9 | 366.4  | 357.2 | 344.3 | 329.5 | 317.5 | 310.2 | 305.1 | 302.8 | 301.0 | 300.5 |
| 32.5°  | 354.9 | 347.5  | 342.0 | 324.5 | 313.4 | 302.3 | 296.8 | 292.7 | 289.9 | 289.4 | 289.9 |
| 35°    | 337.4 | 329.1  | 323.5 | 307.9 | 296.8 | 286.7 | 284.4 | 280.7 | 279.3 | 278.8 | 281.1 |
| 37.5°  | 318.9 | 312.5  | 305.6 | 292.7 | 280.2 | 274.2 | 269.6 | 268.2 | 267.8 | 270.5 | 271.5 |
| 40°    | 301.9 | 296.3  | 289.9 | 276.1 | 266.8 | 260.4 | 258.1 | 256.7 | 258.6 | 261.3 | 262.7 |
| 42.5°  | 285.7 | 277.9  | 272.8 | 260.4 | 252.1 | 248.4 | 245.6 | 245.6 | 247.5 | 250.7 | 253.0 |
| 45°    | 268.7 | 262.7  | 257.6 | 246.6 | 239.2 | 235.0 | 234.6 | 235.0 | 237.4 | 239.7 | 242.4 |
| 47.5°  | 252.1 | 246.1  | 240.6 | 231.4 | 224.9 | 222.6 | 222.1 | 222.6 | 226.3 | 229.5 | 232.7 |
| 50°    | 236.9 | 230.4  | 225.4 | 216.6 | 211.5 | 208.8 | 209.2 | 211.5 | 214.3 | 218.9 | 223.1 |
| 52.5°  | 218.9 | 214.3  | 209.7 | 201.9 | 197.3 | 195.4 | 196.8 | 198.6 | 203.7 | 206.9 | 212.0 |
| 55°    | 201.4 | 197.3  | 193.6 | 187.6 | 183.9 | 182.5 | 183.4 | 186.2 | 190.3 | 195.9 | 201.9 |
| 57.5°  | 185.3 | 180.7  | 177.0 | 172.8 | 168.7 | 169.1 | 169.6 | 173.3 | 178.4 | 183.4 | 190.3 |
| 60°    | 167.3 | 164.5  | 161.3 | 156.2 | 154.4 | 154.4 | 155.8 | 159.9 | 164.5 | 172.8 | 178.8 |
| 62.5°  | 151.2 | 147.5  | 145.2 | 141.9 | 139.2 | 139.6 | 142.9 | 146.6 | 152.1 | 159.0 | 166.8 |
| 65°    | 134.6 | 130.4  | 128.6 | 125.8 | 124.9 | 125.4 | 127.7 | 133.2 | 139.2 | 145.2 | 152.5 |
| 67.5°  | 116.1 | 114.8  | 112.9 | 110.1 | 111.1 | 111.5 | 113.8 | 118.4 | 124.9 | 130.9 | 139.2 |
| 70°    | 100.5 | 97.7   | 97.2  | 94.9  | 94.9  | 96.3  | 100.9 | 104.2 | 110.1 | 116.6 | 125.4 |
| 72.5°  | 83.9  | 81.6   | 81.6  | 79.7  | 81.1  | 82.5  | 84.8  | 89.4  | 94.9  | 101.4 | 108.8 |
| 75°    | 66.8  | 65.9   | 66.8  | 65.9  | 65.9  | 68.2  | 71.0  | 74.7  | 80.7  | 87.6  | 93.6  |
| 77.5°  | 51.6  | 51.6   | 51.2  | 52.5  | 52.5  | 53.9  | 57.6  | 61.3  | 65.9  | 71.4  | 77.9  |
| 80°    | 37.8  | 37.8   | 37.8  | 39.2  | 40.6  | 40.6  | 42.9  | 47.5  | 51.6  | 55.3  | 61.3  |
| 82.5°  | 25.8  | 25.8   | 25.8  | 26.7  | 28.6  | 28.6  | 31.3  | 34.1  | 38.7  | 41.9  | 44.7  |
| 85°    | 15.7  | 15.7   | 15.2  | 16.1  | 16.6  | 18.0  | 20.3  | 22.1  | 24.4  | 27.2  | 30.0  |
| 87.5°  | 6.9   | 6.9    | 7.4   | 7.8   | 8.3   | 9.2   | 10.1  | 11.1  | 13.4  | 14.3  | 15.7  |
| 90°    | 4.6   | 5.0    | 5.3   | 5.9   | 6.6   | 7.2   | 7.8   | 8.3   | 8.8   | 9.3   | 9.8   |
| 92.5°  | 4.7   | 4.6    | 4.9   | 5.6   | 6.2   | 6.9   | 7.5   | 8.0   | 8.4   | 8.9   | 9.4   |
| 95°    | 8.8   | 7.5    | 7.5   | 7.6   | 7.7   | 7.7   | 7.8   | 8.3   | 8.8   | 9.3   | 9.8   |
| 97.5°  | 44.3  | 45.2   | 41.0  | 32.7  | 24.4  | 16.1  | 7.8   | 8.2   | 8.6   | 9.0   | 9.4   |
| 100°   | 64.0  | 64.7   | 59.2  | 48.3  | 37.4  | 26.5  | 15.6  | 14.3  | 12.9  | 11.6  | 10.3  |
| 102.5° | 85.5  | 86.0   | 86.5  | 87.4  | 88.4  | 89.3  | 90.3  | 72.5  | 54.7  | 37.0  | 19.2  |
| 105°   | 109.0 | 109.2  | 109.4 | 109.8 | 110.1 | 110.5 | 110.9 | 111.6 | 112.3 | 113.0 | 113.7 |
| 107.5° | 131.1 | 131.2  | 131.5 | 132.0 | 132.6 | 133.1 | 133.7 | 134.1 | 134.5 | 134.9 | 135.3 |
| 110°   | 154.6 | 154.7  | 154.9 | 155.4 | 155.9 | 156.3 | 156.8 | 157.0 | 157.1 | 157.3 | 157.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 178.3 | 178.5  | 178.6 | 178.7 | 178.9 | 179.0 | 179.2 | 179.1 | 179.0 | 178.9 | 178.8 |
| 115°   | 200.8 | 200.9  | 200.9 | 200.8 | 200.7 | 200.6 | 200.5 | 200.7 | 200.8 | 201.0 | 201.1 |
| 117.5° | 222.0 | 222.2  | 222.3 | 222.6 | 222.8 | 223.1 | 223.3 | 223.2 | 223.1 | 223.0 | 222.9 |
| 120°   | 243.4 | 243.6  | 243.6 | 243.5 | 243.4 | 243.3 | 243.2 | 243.4 | 243.5 | 243.7 | 243.8 |
| 122.5° | 262.7 | 262.8  | 262.9 | 263.0 | 263.2 | 263.3 | 263.5 | 263.6 | 263.6 | 263.7 | 263.8 |
| 125°   | 282.1 | 282.3  | 282.2 | 282.1 | 281.9 | 281.8 | 281.6 | 281.8 | 282.1 | 282.3 | 282.6 |
| 127.5° | 299.4 | 299.4  | 299.6 | 300.0 | 300.4 | 300.8 | 301.2 | 301.1 | 301.0 | 300.9 | 300.8 |
| 130°   | 316.8 | 316.8  | 316.9 | 317.2 | 317.4 | 317.7 | 317.9 | 318.0 | 318.0 | 318.1 | 318.2 |
| 132.5° | 333.1 | 333.2  | 333.4 | 333.7 | 334.0 | 334.3 | 334.6 | 334.7 | 334.7 | 334.8 | 334.9 |
| 135°   | 348.1 | 348.1  | 348.3 | 348.6 | 348.9 | 349.2 | 349.5 | 349.7 | 349.8 | 350.0 | 350.1 |
| 137.5° | 362.7 | 362.7  | 362.9 | 363.3 | 363.7 | 364.1 | 364.5 | 364.7 | 364.8 | 365.0 | 365.1 |
| 140°   | 377.2 | 377.3  | 377.4 | 377.5 | 377.7 | 377.8 | 378.0 | 378.2 | 378.4 | 378.7 | 378.9 |
| 142.5° | 390.2 | 390.4  | 390.4 | 390.5 | 390.6 | 390.7 | 390.8 | 391.0 | 391.1 | 391.3 | 391.4 |
| 145°   | 402.8 | 402.9  | 402.9 | 402.9 | 402.9 | 402.9 | 402.9 | 403.0 | 403.0 | 403.1 | 403.2 |
| 147.5° | 413.7 | 413.9  | 413.9 | 413.8 | 413.7 | 413.6 | 413.5 | 413.6 | 413.7 | 413.8 | 413.9 |
| 150°   | 424.0 | 424.2  | 424.2 | 424.1 | 424.0 | 423.9 | 423.8 | 423.8 | 423.8 | 423.8 | 423.8 |
| 152.5° | 433.0 | 433.1  | 433.0 | 432.9 | 432.7 | 432.6 | 432.4 | 432.6 | 432.7 | 432.9 | 433.0 |
| 155°   | 440.9 | 440.9  | 440.8 | 440.5 | 440.3 | 440.0 | 439.8 | 440.1 | 440.5 | 440.8 | 441.1 |
| 157.5° | 448.0 | 448.0  | 447.8 | 447.5 | 447.2 | 446.9 | 446.6 | 447.0 | 447.4 | 447.8 | 448.2 |
| 160°   | 453.4 | 453.3  | 453.3 | 453.2 | 453.1 | 453.1 | 453.0 | 453.5 | 453.9 | 454.4 | 454.9 |
| 162.5° | 458.9 | 458.7  | 458.7 | 458.6 | 458.5 | 458.4 | 458.3 | 458.8 | 459.3 | 459.8 | 460.3 |
| 165°   | 463.1 | 462.9  | 462.9 | 462.9 | 462.9 | 462.9 | 462.9 | 463.5 | 464.2 | 464.8 | 465.5 |
| 167.5° | 467.1 | 466.9  | 466.9 | 466.8 | 466.7 | 466.6 | 466.5 | 467.2 | 467.9 | 468.6 | 469.3 |
| 170°   | 469.9 | 469.7  | 469.7 | 469.8 | 469.9 | 470.0 | 470.1 | 470.7 | 471.3 | 472.0 | 472.6 |
| 172.5° | 472.0 | 471.8  | 471.8 | 471.9 | 472.0 | 472.1 | 472.2 | 472.8 | 473.4 | 474.1 | 474.7 |
| 175°   | 473.5 | 473.3  | 473.3 | 473.4 | 473.5 | 473.5 | 473.6 | 474.3 | 475.0 | 475.7 | 476.4 |
| 177.5° | 474.3 | 474.0  | 474.1 | 474.2 | 474.4 | 474.5 | 474.7 | 475.3 | 475.9 | 476.6 | 477.2 |
| 180°   | 475.4 | 475.4  | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 556.3  | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3  |
| 2.5°   | 524.9  | 524.5 | 522.2 | 523.1 | 520.3 | 521.2 | 522.6 | 523.1 | 524.9 | 523.6 | 523.1  |
| 5°     | 492.7  | 491.8 | 490.4 | 489.0 | 488.5 | 490.4 | 487.1 | 488.1 | 489.0 | 490.4 | 492.2  |
| 7.5°   | 466.4  | 465.9 | 464.6 | 462.3 | 461.3 | 460.4 | 460.9 | 464.1 | 463.6 | 463.2 | 466.4  |
| 10°    | 442.4  | 442.9 | 440.1 | 439.7 | 436.9 | 436.4 | 436.9 | 437.8 | 439.2 | 441.1 | 441.5  |
| 12.5°  | 417.6  | 423.5 | 418.5 | 416.6 | 412.5 | 414.8 | 415.7 | 411.6 | 413.9 | 415.2 | 422.2  |
| 15°    | 401.9  | 399.1 | 395.9 | 395.9 | 394.0 | 393.1 | 390.8 | 394.0 | 395.9 | 398.7 | 397.7  |
| 17.5°  | 380.2  | 375.6 | 373.8 | 371.9 | 372.4 | 374.2 | 369.2 | 376.5 | 376.5 | 377.9 | 375.6  |
| 20°    | 361.3  | 357.6 | 355.3 | 354.4 | 353.0 | 352.1 | 351.6 | 353.5 | 356.3 | 357.2 | 359.5  |
| 22.5°  | 341.5  | 341.5 | 337.8 | 336.4 | 335.5 | 334.1 | 336.4 | 335.1 | 336.9 | 338.7 | 342.4  |
| 25°    | 324.9  | 324.9 | 323.5 | 321.7 | 320.3 | 319.4 | 320.8 | 320.3 | 321.7 | 324.0 | 324.9  |
| 27.5°  | 311.6  | 310.2 | 309.7 | 309.2 | 308.8 | 309.2 | 308.8 | 310.2 | 311.6 | 312.0 | 311.1  |
| 30°    | 300.0  | 298.6 | 299.1 | 299.1 | 299.6 | 299.1 | 298.6 | 300.0 | 300.5 | 299.6 | 300.0  |
| 32.5°  | 289.4  | 289.4 | 290.4 | 290.8 | 290.8 | 291.3 | 291.7 | 290.8 | 291.3 | 289.9 | 290.4  |
| 35°    | 280.7  | 281.6 | 282.5 | 283.0 | 283.4 | 283.0 | 283.9 | 283.4 | 282.5 | 281.6 | 281.1  |
| 37.5°  | 271.9  | 272.8 | 274.7 | 275.1 | 276.5 | 277.0 | 276.1 | 276.1 | 275.6 | 273.8 | 272.8  |
| 40°    | 262.7  | 263.6 | 265.9 | 267.3 | 268.2 | 269.6 | 268.7 | 268.7 | 266.8 | 265.0 | 263.6  |
| 42.5°  | 253.9  | 255.8 | 258.1 | 259.5 | 261.3 | 261.3 | 261.3 | 260.4 | 258.1 | 256.2 | 254.9  |
| 45°    | 245.2  | 245.6 | 248.9 | 251.2 | 253.0 | 253.0 | 253.0 | 251.6 | 250.3 | 246.6 | 244.7  |
| 47.5°  | 235.5  | 236.9 | 240.6 | 242.9 | 244.7 | 245.2 | 245.2 | 243.8 | 241.0 | 237.8 | 235.5  |
| 50°    | 224.9  | 227.2 | 231.4 | 234.6 | 236.9 | 237.8 | 236.4 | 235.5 | 232.3 | 228.6 | 225.8  |
| 52.5°  | 214.8  | 217.5 | 222.6 | 225.4 | 228.6 | 229.1 | 228.6 | 227.2 | 223.5 | 218.5 | 216.1  |
| 55°    | 204.6  | 206.9 | 212.5 | 217.1 | 219.8 | 220.8 | 219.8 | 217.5 | 212.9 | 207.9 | 205.5  |
| 57.5°  | 193.6  | 196.8 | 202.8 | 207.4 | 210.6 | 211.1 | 210.2 | 207.9 | 204.2 | 197.7 | 194.5  |
| 60°    | 182.0  | 186.2 | 192.2 | 196.8 | 200.9 | 201.4 | 200.5 | 197.3 | 192.6 | 186.2 | 183.4  |
| 62.5°  | 170.5  | 173.7 | 180.7 | 185.7 | 189.0 | 191.3 | 189.4 | 186.2 | 181.6 | 175.1 | 171.0  |
| 65°    | 157.2  | 161.8 | 167.8 | 172.4 | 176.1 | 176.5 | 175.6 | 172.8 | 167.8 | 160.8 | 157.6  |
| 67.5°  | 144.3  | 147.5 | 153.5 | 159.5 | 160.8 | 162.2 | 160.8 | 158.1 | 153.9 | 147.9 | 143.3  |
| 70°    | 128.6  | 131.3 | 138.7 | 142.9 | 144.7 | 146.1 | 145.2 | 142.4 | 138.7 | 133.2 | 129.5  |
| 72.5°  | 112.9  | 115.2 | 122.1 | 125.4 | 129.0 | 128.6 | 128.1 | 126.3 | 121.2 | 117.5 | 115.2  |
| 75°    | 96.3   | 99.1  | 103.7 | 107.8 | 109.2 | 109.2 | 109.2 | 107.8 | 104.6 | 98.6  | 96.3   |
| 77.5°  | 81.1   | 82.5  | 86.2  | 88.5  | 89.9  | 90.3  | 89.9  | 87.6  | 85.7  | 81.6  | 80.2   |
| 80°    | 62.2   | 65.9  | 68.7  | 69.1  | 71.0  | 71.0  | 71.0  | 70.1  | 68.2  | 64.1  | 63.6   |
| 82.5°  | 47.0   | 47.9  | 50.7  | 52.1  | 53.0  | 52.5  | 52.5  | 50.7  | 50.2  | 47.9  | 47.0   |
| 85°    | 31.8   | 33.2  | 32.7  | 34.6  | 35.0  | 34.1  | 34.1  | 35.0  | 32.7  | 33.2  | 31.8   |
| 87.5°  | 17.5   | 17.5  | 18.4  | 18.0  | 19.8  | 19.8  | 18.9  | 19.4  | 18.4  | 18.0  | 17.5   |
| 90°    | 10.0   | 10.1  | 10.2  | 10.4  | 10.5  | 10.7  | 10.5  | 10.4  | 10.2  | 10.1  | 10.0   |
| 92.5°  | 9.6    | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6    |
| 95°    | 10.0   | 10.0  | 10.1  | 10.2  | 10.2  | 10.3  | 10.2  | 10.2  | 10.1  | 10.0  | 10.0   |
| 97.5°  | 9.6    | 9.6   | 9.7   | 9.8   | 9.9   | 10.0  | 9.9   | 9.8   | 9.7   | 9.6   | 9.6    |
| 100°   | 9.6    | 9.6   | 9.7   | 9.8   | 9.9   | 10.0  | 9.9   | 9.8   | 9.7   | 9.6   | 9.6    |
| 102.5° | 10.3   | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3   |
| 105°   | 114.1  | 112.7 | 109.8 | 107.0 | 104.1 | 101.3 | 104.1 | 107.0 | 109.8 | 112.7 | 114.1  |
| 107.5° | 135.5  | 135.7 | 136.0 | 136.3 | 136.6 | 136.9 | 136.6 | 136.3 | 136.0 | 135.7 | 135.5  |
| 110°   | 157.5  | 157.6 | 157.9 | 158.1 | 158.4 | 158.6 | 158.4 | 158.1 | 157.9 | 157.6 | 157.5  |



TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 178.8  | 179.0 | 179.3 | 179.6 | 180.0 | 180.3 | 180.0 | 179.6 | 179.3 | 179.0 | 178.8  |
| 115°   | 201.2  | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2 | 201.2  |
| 117.5° | 222.9  | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9  |
| 120°   | 243.9  | 243.8 | 243.7 | 243.5 | 243.4 | 243.2 | 243.4 | 243.5 | 243.7 | 243.8 | 243.9  |
| 122.5° | 263.8  | 263.7 | 263.6 | 263.4 | 263.3 | 263.1 | 263.3 | 263.4 | 263.6 | 263.7 | 263.8  |
| 125°   | 282.7  | 282.7 | 282.8 | 282.9 | 282.9 | 283.0 | 282.9 | 282.9 | 282.8 | 282.7 | 282.7  |
| 127.5° | 300.8  | 300.8 | 300.7 | 300.6 | 300.6 | 300.5 | 300.6 | 300.6 | 300.7 | 300.8 | 300.8  |
| 130°   | 318.2  | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2  |
| 132.5° | 334.9  | 334.9 | 334.8 | 334.7 | 334.7 | 334.6 | 334.7 | 334.7 | 334.8 | 334.9 | 334.9  |
| 135°   | 350.2  | 350.3 | 350.4 | 350.6 | 350.7 | 350.9 | 350.7 | 350.6 | 350.4 | 350.3 | 350.2  |
| 137.5° | 365.2  | 365.2 | 365.1 | 365.0 | 364.9 | 364.8 | 364.9 | 365.0 | 365.1 | 365.2 | 365.2  |
| 140°   | 379.0  | 379.0 | 379.1 | 379.2 | 379.3 | 379.4 | 379.3 | 379.2 | 379.1 | 379.0 | 379.0  |
| 142.5° | 391.5  | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5  |
| 145°   | 403.2  | 403.3 | 403.4 | 403.6 | 403.7 | 403.9 | 403.7 | 403.6 | 403.4 | 403.3 | 403.2  |
| 147.5° | 413.9  | 413.9 | 414.0 | 414.1 | 414.1 | 414.2 | 414.1 | 414.1 | 414.0 | 413.9 | 413.9  |
| 150°   | 423.8  | 423.8 | 423.9 | 424.0 | 424.1 | 424.2 | 424.1 | 424.0 | 423.9 | 423.8 | 423.8  |
| 152.5° | 433.1  | 433.1 | 433.0 | 432.9 | 432.8 | 432.7 | 432.8 | 432.9 | 433.0 | 433.1 | 433.1  |
| 155°   | 441.3  | 441.2 | 440.9 | 440.7 | 440.4 | 440.2 | 440.4 | 440.7 | 440.9 | 441.2 | 441.3  |
| 157.5° | 448.4  | 448.2 | 447.8 | 447.4 | 447.0 | 446.6 | 447.0 | 447.4 | 447.8 | 448.2 | 448.4  |
| 160°   | 455.1  | 454.9 | 454.4 | 453.9 | 453.5 | 453.0 | 453.5 | 453.9 | 454.4 | 454.9 | 455.1  |
| 162.5° | 460.5  | 460.2 | 459.7 | 459.1 | 458.6 | 458.0 | 458.6 | 459.1 | 459.7 | 460.2 | 460.5  |
| 165°   | 465.8  | 465.4 | 464.7 | 464.0 | 463.3 | 462.6 | 463.3 | 464.0 | 464.7 | 465.4 | 465.8  |
| 167.5° | 469.7  | 469.3 | 468.5 | 467.7 | 466.9 | 466.1 | 466.9 | 467.7 | 468.5 | 469.3 | 469.7  |
| 170°   | 472.9  | 472.5 | 471.7 | 470.9 | 470.1 | 469.3 | 470.1 | 470.9 | 471.7 | 472.5 | 472.9  |
| 172.5° | 475.0  | 474.6 | 473.7 | 472.8 | 472.0 | 471.1 | 472.0 | 472.8 | 473.7 | 474.6 | 475.0  |
| 175°   | 476.8  | 476.3 | 475.4 | 474.4 | 473.5 | 472.5 | 473.5 | 474.4 | 475.4 | 476.3 | 476.8  |
| 177.5° | 477.5  | 477.0 | 476.1 | 475.2 | 474.2 | 473.3 | 474.2 | 475.2 | 476.1 | 477.0 | 477.5  |
| 180°   | 475.4  | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4  |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3 | 556.3  | 556.3 |
| 2.5°   | 523.1 | 525.9 | 523.1 | 524.9 | 525.9 | 528.2 | 529.1 | 533.2 | 534.6 | 537.8  | 537.8 |
| 5°     | 491.8 | 493.1 | 493.6 | 495.4 | 497.3 | 501.9 | 505.1 | 511.1 | 518.0 | 518.9  | 523.1 |
| 7.5°   | 466.4 | 468.7 | 472.4 | 471.0 | 474.2 | 481.2 | 485.3 | 492.7 | 499.6 | 503.3  | 508.3 |
| 10°    | 443.8 | 446.6 | 448.0 | 449.4 | 455.3 | 461.3 | 467.8 | 472.9 | 482.1 | 487.6  | 491.8 |
| 12.5°  | 425.4 | 423.1 | 425.8 | 430.9 | 437.8 | 441.5 | 450.3 | 458.1 | 465.0 | 471.0  | 474.7 |
| 15°    | 401.4 | 403.3 | 406.0 | 414.8 | 416.6 | 425.8 | 429.1 | 437.8 | 450.7 | 456.3  | 460.9 |
| 17.5°  | 378.4 | 384.4 | 389.9 | 393.1 | 398.7 | 406.0 | 415.2 | 424.9 | 433.2 | 439.7  | 445.2 |
| 20°    | 359.9 | 365.9 | 369.2 | 371.5 | 377.0 | 387.1 | 395.9 | 407.9 | 418.5 | 423.5  | 430.9 |
| 22.5°  | 345.2 | 345.2 | 349.8 | 356.7 | 359.9 | 369.6 | 377.0 | 389.9 | 401.4 | 407.9  | 414.8 |
| 25°    | 326.8 | 329.5 | 333.2 | 339.2 | 343.8 | 351.6 | 362.2 | 373.3 | 385.8 | 391.3  | 400.0 |
| 27.5°  | 311.6 | 314.8 | 319.8 | 321.2 | 325.8 | 332.8 | 343.8 | 355.8 | 368.7 | 374.7  | 382.1 |
| 30°    | 300.0 | 301.9 | 303.7 | 306.5 | 310.6 | 316.6 | 325.8 | 336.4 | 352.1 | 356.7  | 365.9 |
| 32.5°  | 289.9 | 290.8 | 291.7 | 294.0 | 296.3 | 302.3 | 309.7 | 321.2 | 334.1 | 341.0  | 349.3 |
| 35°    | 280.7 | 279.8 | 280.2 | 281.6 | 283.9 | 286.2 | 294.0 | 303.7 | 315.7 | 324.0  | 330.4 |
| 37.5°  | 271.9 | 270.1 | 269.6 | 269.6 | 270.5 | 273.3 | 279.3 | 287.6 | 300.5 | 307.4  | 313.9 |
| 40°    | 262.2 | 260.4 | 259.5 | 259.0 | 258.6 | 260.4 | 265.0 | 273.3 | 283.4 | 289.9  | 297.3 |
| 42.5°  | 253.0 | 251.2 | 248.9 | 248.4 | 247.5 | 248.4 | 251.6 | 259.5 | 268.2 | 274.7  | 280.7 |
| 45°    | 243.8 | 240.6 | 237.8 | 236.0 | 236.4 | 235.0 | 237.4 | 243.3 | 253.5 | 257.6  | 263.6 |
| 47.5°  | 233.7 | 230.0 | 226.3 | 224.4 | 222.6 | 223.5 | 224.4 | 229.5 | 238.3 | 242.4  | 248.4 |
| 50°    | 224.0 | 218.9 | 214.8 | 212.5 | 211.1 | 210.2 | 211.1 | 216.1 | 222.6 | 226.3  | 231.4 |
| 52.5°  | 212.9 | 207.9 | 203.7 | 200.0 | 198.2 | 196.8 | 197.3 | 201.9 | 207.9 | 211.5  | 216.6 |
| 55°    | 202.8 | 196.3 | 190.8 | 186.2 | 184.8 | 184.3 | 183.9 | 187.1 | 192.2 | 195.9  | 200.0 |
| 57.5°  | 191.3 | 184.8 | 178.8 | 173.3 | 170.5 | 170.1 | 170.1 | 171.0 | 177.4 | 180.2  | 182.5 |
| 60°    | 179.7 | 172.8 | 166.4 | 161.3 | 157.2 | 155.8 | 155.3 | 157.2 | 160.4 | 163.1  | 166.4 |
| 62.5°  | 166.8 | 159.9 | 152.1 | 147.5 | 143.3 | 139.6 | 141.0 | 141.5 | 146.1 | 147.5  | 150.2 |
| 65°    | 154.4 | 146.6 | 140.1 | 132.7 | 128.1 | 125.8 | 124.9 | 125.8 | 129.5 | 130.0  | 131.8 |
| 67.5°  | 140.1 | 132.7 | 124.9 | 119.8 | 115.7 | 111.5 | 110.6 | 110.6 | 112.5 | 113.8  | 116.1 |
| 70°    | 126.3 | 118.9 | 110.1 | 104.6 | 100.5 | 96.8  | 95.4  | 94.9  | 96.3  | 97.2   | 99.5  |
| 72.5°  | 110.1 | 102.8 | 96.3  | 90.3  | 85.3  | 82.5  | 81.1  | 80.2  | 81.6  | 82.5   | 83.0  |
| 75°    | 93.1  | 87.1  | 80.7  | 74.7  | 71.4  | 68.7  | 66.8  | 65.4  | 66.4  | 66.4   | 66.4  |
| 77.5°  | 77.0  | 71.0  | 65.9  | 61.8  | 57.6  | 54.4  | 53.0  | 51.6  | 52.1  | 52.1   | 53.0  |
| 80°    | 59.9  | 55.8  | 51.6  | 47.9  | 44.2  | 41.5  | 40.6  | 39.2  | 38.3  | 37.8   | 37.8  |
| 82.5°  | 44.2  | 41.0  | 37.3  | 34.1  | 32.3  | 29.5  | 28.6  | 26.7  | 26.7  | 26.3   | 26.3  |
| 85°    | 29.5  | 27.7  | 24.0  | 21.7  | 20.3  | 18.9  | 18.0  | 17.1  | 15.7  | 15.7   | 15.2  |
| 87.5°  | 15.7  | 14.7  | 13.8  | 11.1  | 11.1  | 9.7   | 9.2   | 8.8   | 7.4   | 7.8    | 7.8   |
| 90°    | 9.8   | 9.3   | 8.8   | 8.3   | 7.8   | 7.2   | 6.6   | 5.9   | 5.3   | 5.0    | 4.6   |
| 92.5°  | 9.4   | 8.9   | 8.4   | 8.0   | 7.5   | 6.9   | 6.2   | 5.6   | 4.9   | 4.6    | 4.7   |
| 95°    | 9.8   | 9.3   | 8.8   | 8.3   | 7.8   | 7.7   | 7.7   | 7.6   | 7.5   | 7.5    | 8.8   |
| 97.5°  | 9.4   | 9.0   | 8.6   | 8.2   | 7.8   | 16.1  | 24.4  | 32.7  | 41.0  | 45.2   | 44.3  |
| 100°   | 10.3  | 11.6  | 12.9  | 14.3  | 15.6  | 26.5  | 37.4  | 48.3  | 59.2  | 64.7   | 64.0  |
| 102.5° | 19.2  | 37.0  | 54.7  | 72.5  | 90.3  | 89.3  | 88.4  | 87.4  | 86.5  | 86.0   | 85.5  |
| 105°   | 113.7 | 113.0 | 112.3 | 111.6 | 110.9 | 110.5 | 110.1 | 109.8 | 109.4 | 109.2  | 109.0 |
| 107.5° | 135.3 | 134.9 | 134.5 | 134.1 | 133.7 | 133.1 | 132.6 | 132.0 | 131.5 | 131.2  | 131.1 |
| 110°   | 157.4 | 157.3 | 157.1 | 157.0 | 156.8 | 156.3 | 155.9 | 155.4 | 154.9 | 154.7  | 154.6 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 178.8 | 178.9 | 179.0 | 179.1 | 179.2 | 179.0 | 178.9 | 178.7 | 178.6 | 178.5  | 178.3 |
| 115°   | 201.1 | 201.0 | 200.8 | 200.7 | 200.5 | 200.6 | 200.7 | 200.8 | 200.9 | 200.9  | 200.8 |
| 117.5° | 222.9 | 223.0 | 223.1 | 223.2 | 223.3 | 223.1 | 222.8 | 222.6 | 222.3 | 222.2  | 222.0 |
| 120°   | 243.8 | 243.7 | 243.5 | 243.4 | 243.2 | 243.3 | 243.4 | 243.5 | 243.6 | 243.6  | 243.4 |
| 122.5° | 263.8 | 263.7 | 263.6 | 263.6 | 263.5 | 263.3 | 263.2 | 263.0 | 262.9 | 262.8  | 262.7 |
| 125°   | 282.6 | 282.3 | 282.1 | 281.8 | 281.6 | 281.8 | 281.9 | 282.1 | 282.2 | 282.3  | 282.1 |
| 127.5° | 300.8 | 300.9 | 301.0 | 301.1 | 301.2 | 300.8 | 300.4 | 300.0 | 299.6 | 299.4  | 299.4 |
| 130°   | 318.2 | 318.1 | 318.0 | 318.0 | 317.9 | 317.7 | 317.4 | 317.2 | 316.9 | 316.8  | 316.8 |
| 132.5° | 334.9 | 334.8 | 334.7 | 334.7 | 334.6 | 334.3 | 334.0 | 333.7 | 333.4 | 333.2  | 333.1 |
| 135°   | 350.1 | 350.0 | 349.8 | 349.7 | 349.5 | 349.2 | 348.9 | 348.6 | 348.3 | 348.1  | 348.1 |
| 137.5° | 365.1 | 365.0 | 364.8 | 364.7 | 364.5 | 364.1 | 363.7 | 363.3 | 362.9 | 362.7  | 362.7 |
| 140°   | 378.9 | 378.7 | 378.4 | 378.2 | 378.0 | 377.8 | 377.7 | 377.5 | 377.4 | 377.3  | 377.2 |
| 142.5° | 391.4 | 391.3 | 391.1 | 391.0 | 390.8 | 390.7 | 390.6 | 390.5 | 390.4 | 390.4  | 390.2 |
| 145°   | 403.2 | 403.1 | 403.0 | 403.0 | 402.9 | 402.9 | 402.9 | 402.9 | 402.9 | 402.9  | 402.8 |
| 147.5° | 413.9 | 413.8 | 413.7 | 413.6 | 413.5 | 413.6 | 413.7 | 413.8 | 413.9 | 413.9  | 413.7 |
| 150°   | 423.8 | 423.8 | 423.8 | 423.8 | 423.8 | 423.9 | 424.0 | 424.1 | 424.2 | 424.2  | 424.0 |
| 152.5° | 433.0 | 432.9 | 432.7 | 432.6 | 432.4 | 432.6 | 432.7 | 432.9 | 433.0 | 433.1  | 433.0 |
| 155°   | 441.1 | 440.8 | 440.5 | 440.1 | 439.8 | 440.0 | 440.3 | 440.5 | 440.8 | 440.9  | 440.9 |
| 157.5° | 448.2 | 447.8 | 447.4 | 447.0 | 446.6 | 446.9 | 447.2 | 447.5 | 447.8 | 448.0  | 448.0 |
| 160°   | 454.9 | 454.4 | 453.9 | 453.5 | 453.0 | 453.1 | 453.1 | 453.2 | 453.3 | 453.3  | 453.4 |
| 162.5° | 460.3 | 459.8 | 459.3 | 458.8 | 458.3 | 458.4 | 458.5 | 458.6 | 458.7 | 458.7  | 458.9 |
| 165°   | 465.5 | 464.8 | 464.2 | 463.5 | 462.9 | 462.9 | 462.9 | 462.9 | 462.9 | 462.9  | 463.1 |
| 167.5° | 469.3 | 468.6 | 467.9 | 467.2 | 466.5 | 466.6 | 466.7 | 466.8 | 466.9 | 466.9  | 467.1 |
| 170°   | 472.6 | 472.0 | 471.3 | 470.7 | 470.1 | 470.0 | 469.9 | 469.8 | 469.7 | 469.7  | 469.9 |
| 172.5° | 474.7 | 474.1 | 473.4 | 472.8 | 472.2 | 472.1 | 472.0 | 471.9 | 471.8 | 471.8  | 472.0 |
| 175°   | 476.4 | 475.7 | 475.0 | 474.3 | 473.6 | 473.5 | 473.5 | 473.4 | 473.3 | 473.3  | 473.5 |
| 177.5° | 477.2 | 476.6 | 475.9 | 475.3 | 474.7 | 474.5 | 474.4 | 474.2 | 474.1 | 474.0  | 474.3 |
| 180°   | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 | 475.4  | 475.4 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 556.3 | 556.3 | 556.3 | 556.3 |
| 2.5°   | 541.1 | 545.7 | 549.8 | 556.3 |
| 5°     | 529.1 | 535.5 | 544.3 | 554.0 |
| 7.5°   | 515.3 | 525.4 | 536.9 | 550.3 |
| 10°    | 502.4 | 513.9 | 528.6 | 544.8 |
| 12.5°  | 489.0 | 502.8 | 518.9 | 536.5 |
| 15°    | 473.8 | 487.6 | 505.6 | 529.1 |
| 17.5°  | 460.0 | 476.5 | 495.9 | 520.8 |
| 20°    | 443.8 | 459.5 | 480.7 | 509.3 |
| 22.5°  | 429.5 | 447.5 | 471.0 | 495.9 |
| 25°    | 413.9 | 429.5 | 453.0 | 483.0 |
| 27.5°  | 398.2 | 417.6 | 440.1 | 469.2 |
| 30°    | 383.0 | 399.1 | 423.5 | 454.0 |
| 32.5°  | 366.4 | 385.8 | 408.3 | 436.9 |
| 35°    | 348.4 | 366.9 | 388.1 | 418.9 |
| 37.5°  | 332.3 | 350.3 | 371.9 | 399.1 |
| 40°    | 314.3 | 333.2 | 353.0 | 380.2 |
| 42.5°  | 296.8 | 313.9 | 333.7 | 358.6 |
| 45°    | 279.8 | 294.5 | 312.5 | 334.1 |
| 47.5°  | 262.2 | 274.7 | 291.3 | 310.6 |
| 50°    | 243.3 | 256.7 | 269.2 | 285.3 |
| 52.5°  | 225.8 | 237.4 | 247.5 | 260.9 |
| 55°    | 208.8 | 216.6 | 224.9 | 235.0 |
| 57.5°  | 190.8 | 196.8 | 202.8 | 213.4 |
| 60°    | 172.8 | 178.4 | 181.6 | 188.5 |
| 62.5°  | 155.3 | 157.6 | 161.8 | 165.9 |
| 65°    | 136.0 | 139.2 | 141.5 | 146.6 |
| 67.5°  | 118.4 | 119.8 | 122.1 | 125.4 |
| 70°    | 100.0 | 103.2 | 104.2 | 106.5 |
| 72.5°  | 84.3  | 85.7  | 86.6  | 87.1  |
| 75°    | 66.8  | 68.2  | 69.1  | 71.9  |
| 77.5°  | 52.5  | 52.1  | 53.9  | 54.4  |
| 80°    | 38.7  | 37.3  | 37.8  | 39.6  |
| 82.5°  | 25.3  | 25.8  | 25.3  | 25.3  |
| 85°    | 15.7  | 15.2  | 14.3  | 14.7  |
| 87.5°  | 6.9   | 6.9   | 6.5   | 6.5   |
| 90°    | 3.7   | 2.8   | 2.0   | 1.1   |
| 92.5°  | 4.8   | 5.0   | 5.1   | 5.3   |
| 95°    | 11.5  | 14.2  | 16.9  | 19.6  |
| 97.5°  | 42.6  | 40.8  | 39.1  | 37.3  |
| 100°   | 62.6  | 61.1  | 59.7  | 58.3  |
| 102.5° | 84.6  | 83.7  | 82.7  | 81.8  |
| 105°   | 108.5 | 108.0 | 107.5 | 107.0 |
| 107.5° | 130.8 | 130.6 | 130.3 | 130.1 |
| 110°   | 154.3 | 154.1 | 153.8 | 153.6 |

TEST NUMBER: P1001233

CATALOG NUMBER: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 177.8 | 177.3 | 176.9 | 176.4 |
| 115°   | 200.5 | 200.3 | 200.0 | 199.8 |
| 117.5° | 221.7 | 221.4 | 221.1 | 220.8 |
| 120°   | 243.1 | 242.8 | 242.4 | 242.1 |
| 122.5° | 262.6 | 262.4 | 262.3 | 262.1 |
| 125°   | 281.8 | 281.5 | 281.2 | 280.9 |
| 127.5° | 299.3 | 299.2 | 299.1 | 299.0 |
| 130°   | 316.7 | 316.6 | 316.6 | 316.5 |
| 132.5° | 333.0 | 332.8 | 332.7 | 332.5 |
| 135°   | 348.2 | 348.3 | 348.4 | 348.5 |
| 137.5° | 362.7 | 362.7 | 362.7 | 362.7 |
| 140°   | 377.0 | 376.9 | 376.7 | 376.5 |
| 142.5° | 389.9 | 389.6 | 389.3 | 389.0 |
| 145°   | 402.5 | 402.3 | 402.0 | 401.8 |
| 147.5° | 413.2 | 412.7 | 412.2 | 411.7 |
| 150°   | 423.7 | 423.4 | 423.1 | 422.8 |
| 152.5° | 432.7 | 432.5 | 432.2 | 432.0 |
| 155°   | 440.8 | 440.7 | 440.6 | 440.5 |
| 157.5° | 448.0 | 448.0 | 448.0 | 448.0 |
| 160°   | 453.7 | 453.9 | 454.2 | 454.4 |
| 162.5° | 459.2 | 459.5 | 459.8 | 460.1 |
| 165°   | 463.5 | 463.9 | 464.3 | 464.7 |
| 167.5° | 467.5 | 467.8 | 468.2 | 468.6 |
| 170°   | 470.4 | 470.9 | 471.3 | 471.8 |
| 172.5° | 472.5 | 473.0 | 473.5 | 474.0 |
| 175°   | 474.0 | 474.5 | 474.9 | 475.4 |
| 177.5° | 474.8 | 475.4 | 475.9 | 476.5 |
| 180°   | 475.4 | 475.4 | 475.4 | 475.4 |

(END OF REPORT)