

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: P1001116

Luminaire Tested: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001116  
REPORT IS A COMBINATION OF REPORTS P995732 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

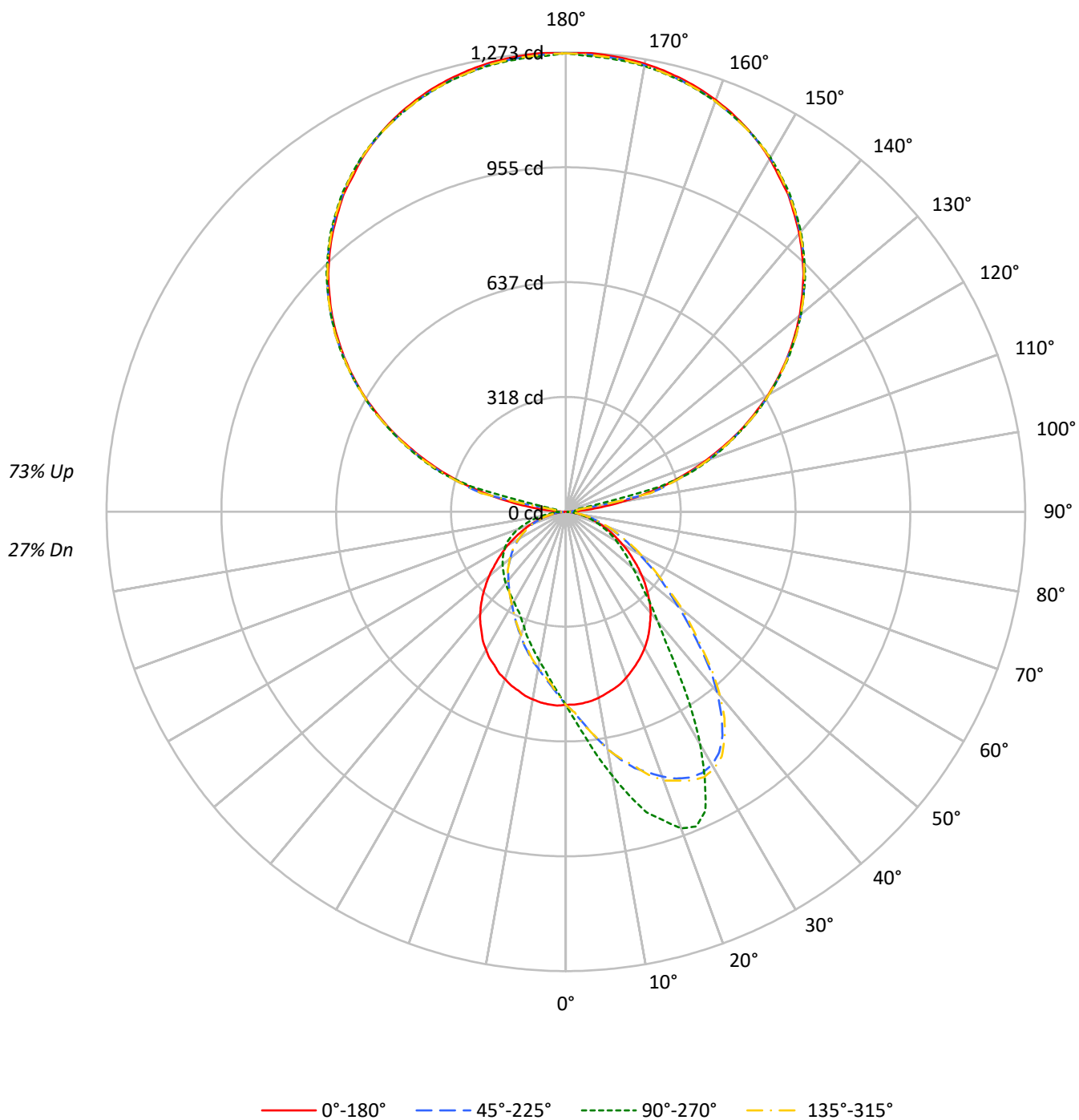
Lumens per Lamp: N/A  
Luminaire Lumens: 5410.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 41.5  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1001116

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 35 | 35 | 35 |
| 1   | 93  | 89  | 85  | 82  | 83 | 79 | 76 | 74 | 62 | 60 | 58 | 46 | 45 | 44 | 31 | 31 | 30 |
| 2   | 85  | 78  | 72  | 67  | 75 | 70 | 65 | 60 | 54 | 51 | 48 | 41 | 38 | 37 | 28 | 26 | 25 |
| 3   | 77  | 68  | 61  | 56  | 69 | 61 | 55 | 51 | 48 | 44 | 41 | 36 | 33 | 31 | 25 | 23 | 22 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 38 | 35 | 32 | 29 | 27 | 22 | 20 | 19 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 38 | 33 | 30 | 29 | 26 | 23 | 20 | 18 | 16 |
| 6   | 60  | 48  | 40  | 35  | 53 | 43 | 37 | 32 | 34 | 29 | 26 | 26 | 23 | 20 | 18 | 16 | 14 |
| 7   | 55  | 43  | 36  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 24 | 20 | 18 | 16 | 14 | 13 |
| 8   | 51  | 39  | 32  | 27  | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 16 | 15 | 13 | 12 |
| 9   | 47  | 36  | 28  | 24  | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 16 | 14 | 14 | 12 | 10 |
| 10  | 44  | 32  | 26  | 21  | 39 | 29 | 23 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 9  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4362 | 4362 | 4362 | 4362 |
| 5°  | 4351 | 5004 | 4376 | 3760 |
| 10° | 4318 | 5838 | 4351 | 3299 |
| 15° | 4266 | 6730 | 4296 | 2951 |
| 20° | 4211 | 7298 | 4241 | 2646 |
| 25° | 4130 | 7214 | 4170 | 2421 |
| 30° | 4052 | 5963 | 4101 | 2305 |
| 35° | 3941 | 4444 | 3985 | 2235 |
| 40° | 3812 | 3347 | 3849 | 2200 |
| 45° | 3615 | 2687 | 3660 | 2153 |
| 50° | 3379 | 2264 | 3428 | 2132 |
| 55° | 3102 | 1970 | 3152 | 2107 |
| 60° | 2834 | 1735 | 2917 | 2072 |
| 65° | 2580 | 1492 | 2606 | 1985 |
| 70° | 2285 | 1228 | 2334 | 1828 |
| 75° | 1991 | 943  | 1980 | 1552 |
| 80° | 1567 | 620  | 1551 | 1178 |
| 85° | 1033 | 279  | 968  | 688  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5640 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.1   | 1.0       |
| 10°-20°   | 160.7  | 3.0       |
| 20°-30°   | 255.3  | 4.7       |
| 30°-40°   | 283.6  | 5.2       |
| 40°-50°   | 257.9  | 4.8       |
| 50°-60°   | 210.8  | 3.9       |
| 60°-70°   | 150.5  | 2.8       |
| 70°-80°   | 82.8   | 1.5       |
| 80°-90°   | 25.0   | 0.5       |
| 90°-100°  | 42.2   | 0.8       |
| 100°-110° | 277.7  | 5.1       |
| 110°-120° | 530.3  | 9.8       |
| 120°-130° | 673.3  | 12.4      |
| 130°-140° | 720.3  | 13.3      |
| 140°-150° | 673.5  | 12.4      |
| 150°-160° | 543.1  | 10.0      |
| 160°-170° | 350.3  | 6.5       |
| 170°-180° | 120.7  | 2.2       |
| 0°-30°    | 468.0  | 8.7       |
| 0°-40°    | 751.6  | 13.9      |
| 0°-60°    | 1220.4 | 22.6      |
| 0°-90°    | 1478.6 | 27.3      |
| 90°-120°  | 850.3  | 15.7      |
| 90°-150°  | 2917.3 | 53.9      |
| 90°-180°  | 3931.0 | 72.7      |
| 0°-180°   | 5410.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 535  | 535  | 535  | 535  | 535  |      |
| 5°   | 533  | 628  | 536  | 472  | 533  | 51   |
| 15°  | 509  | 862  | 512  | 378  | 509  | 144  |
| 25°  | 464  | 915  | 469  | 307  | 464  | 214  |
| 35°  | 403  | 541  | 407  | 272  | 403  | 252  |
| 45°  | 321  | 304  | 325  | 243  | 321  | 248  |
| 55°  | 226  | 198  | 230  | 212  | 226  | 203  |
| 65°  | 141  | 128  | 142  | 170  | 141  | 139  |
| 75°  | 69   | 64   | 69   | 105  | 69   | 73   |
| 85°  | 14   | 13   | 13   | 33   | 14   | 17   |
| 90°  | 3    | 28   | 3    | 28   | 3    | 4    |
| 95°  | 52   | 28   | 52   | 28   | 52   | 64   |
| 105° | 286  | 271  | 286  | 271  | 286  | 299  |
| 115° | 534  | 538  | 534  | 538  | 534  | 526  |
| 125° | 751  | 756  | 751  | 756  | 751  | 670  |
| 135° | 931  | 938  | 931  | 938  | 931  | 718  |
| 145° | 1074 | 1080 | 1074 | 1080 | 1074 | 671  |
| 155° | 1177 | 1176 | 1177 | 1176 | 1177 | 543  |
| 165° | 1242 | 1236 | 1242 | 1236 | 1242 | 351  |
| 175° | 1270 | 1263 | 1270 | 1263 | 1270 | 121  |
| 180° | 1270 | 1270 | 1270 | 1270 | 1270 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 |
| 2.5°   | 534.9 | 540.2 | 542.4 | 544.2 | 550.0 | 551.7 | 552.2 | 554.8 | 557.1 | 557.5 | 557.5 |
| 5°     | 532.7 | 541.1 | 547.7 | 553.9 | 563.3 | 567.2 | 572.1 | 577.4 | 584.5 | 589.0 | 591.2 |
| 7.5°   | 529.1 | 541.5 | 551.7 | 562.4 | 575.2 | 583.2 | 587.6 | 601.8 | 611.6 | 619.5 | 629.3 |
| 10°    | 523.8 | 539.8 | 554.4 | 569.9 | 588.1 | 597.8 | 607.6 | 624.9 | 638.6 | 654.1 | 666.5 |
| 12.5°  | 515.8 | 536.7 | 554.4 | 576.1 | 598.7 | 610.2 | 621.8 | 651.9 | 667.8 | 681.6 | 703.7 |
| 15°    | 508.7 | 529.6 | 554.8 | 577.0 | 604.9 | 622.2 | 639.0 | 658.5 | 683.8 | 713.5 | 734.8 |
| 17.5°  | 500.8 | 526.9 | 550.4 | 581.4 | 612.4 | 628.8 | 642.6 | 672.7 | 708.2 | 737.4 | 756.9 |
| 20°    | 489.7 | 516.3 | 547.3 | 580.1 | 616.9 | 629.7 | 647.9 | 688.2 | 720.1 | 748.9 | 780.8 |
| 22.5°  | 476.8 | 507.9 | 540.7 | 572.1 | 610.2 | 637.3 | 657.2 | 692.7 | 731.2 | 764.5 | 800.3 |
| 25°    | 464.4 | 498.1 | 526.9 | 569.9 | 610.2 | 628.4 | 651.0 | 693.1 | 735.2 | 775.5 | 812.3 |
| 27.5°  | 451.1 | 482.6 | 521.6 | 555.7 | 601.4 | 621.3 | 645.7 | 691.8 | 736.5 | 776.9 | 816.3 |
| 30°    | 436.5 | 470.2 | 502.5 | 542.9 | 587.2 | 612.9 | 635.5 | 685.6 | 731.2 | 773.3 | 810.1 |
| 32.5°  | 420.1 | 452.0 | 486.6 | 524.7 | 571.2 | 597.4 | 625.7 | 677.1 | 725.9 | 762.2 | 790.6 |
| 35°    | 402.8 | 435.2 | 465.3 | 504.3 | 552.2 | 578.3 | 605.8 | 662.5 | 710.8 | 740.5 | 756.9 |
| 37.5°  | 383.8 | 414.4 | 444.0 | 482.6 | 530.5 | 558.4 | 586.3 | 641.3 | 686.9 | 711.7 | 707.3 |
| 40°    | 365.6 | 393.1 | 420.6 | 456.9 | 507.0 | 536.7 | 561.0 | 616.4 | 656.3 | 667.0 | 652.3 |
| 42.5°  | 344.8 | 368.3 | 394.9 | 432.1 | 480.8 | 508.7 | 539.3 | 589.8 | 619.5 | 615.1 | 590.3 |
| 45°    | 321.3 | 342.1 | 368.7 | 403.7 | 453.4 | 482.2 | 507.9 | 555.7 | 577.4 | 566.4 | 521.2 |
| 47.5°  | 298.7 | 319.1 | 340.8 | 375.8 | 424.1 | 448.5 | 474.6 | 517.6 | 530.0 | 506.5 | 461.3 |
| 50°    | 274.3 | 291.2 | 313.8 | 347.0 | 392.2 | 417.9 | 439.6 | 474.2 | 478.6 | 449.8 | 402.8 |
| 52.5°  | 250.8 | 265.0 | 286.7 | 319.5 | 361.6 | 382.0 | 403.3 | 433.9 | 430.3 | 400.6 | 355.4 |
| 55°    | 226.0 | 239.3 | 259.2 | 289.4 | 326.6 | 346.1 | 364.3 | 391.3 | 383.8 | 353.2 | 313.8 |
| 57.5°  | 205.2 | 214.5 | 234.0 | 261.9 | 292.5 | 313.8 | 329.3 | 350.5 | 339.0 | 308.4 | 271.7 |
| 60°    | 181.3 | 192.8 | 209.2 | 231.8 | 261.9 | 276.1 | 289.8 | 304.0 | 296.0 | 266.8 | 234.0 |
| 62.5°  | 159.5 | 168.4 | 182.6 | 204.3 | 227.8 | 240.6 | 255.3 | 264.1 | 256.1 | 229.1 | 201.6 |
| 65°    | 140.9 | 148.0 | 159.1 | 176.8 | 199.4 | 210.1 | 218.5 | 226.9 | 220.3 | 195.0 | 175.0 |
| 67.5°  | 120.5 | 126.7 | 136.0 | 150.2 | 169.3 | 176.8 | 184.8 | 190.6 | 183.0 | 166.2 | 146.7 |
| 70°    | 102.4 | 106.8 | 115.7 | 126.3 | 139.6 | 146.7 | 153.3 | 159.1 | 152.4 | 138.3 | 123.6 |
| 72.5°  | 83.8  | 87.3  | 95.3  | 102.8 | 114.8 | 119.7 | 124.5 | 129.0 | 126.7 | 113.4 | 101.5 |
| 75°    | 69.1  | 70.5  | 75.8  | 82.0  | 89.5  | 94.8  | 98.4  | 101.0 | 99.3  | 88.6  | 81.1  |
| 77.5°  | 52.3  | 54.1  | 58.1  | 62.9  | 69.6  | 72.7  | 74.9  | 77.6  | 75.3  | 66.9  | 61.6  |
| 80°    | 38.1  | 38.6  | 40.8  | 45.2  | 49.6  | 50.1  | 52.3  | 55.8  | 54.5  | 48.7  | 44.8  |
| 82.5°  | 24.4  | 25.7  | 26.6  | 29.2  | 32.4  | 33.2  | 34.6  | 35.5  | 35.0  | 31.5  | 30.1  |
| 85°    | 14.2  | 14.2  | 15.1  | 16.8  | 17.7  | 19.1  | 19.5  | 19.9  | 20.8  | 18.6  | 17.3  |
| 87.5°  | 6.2   | 6.6   | 6.6   | 7.1   | 8.0   | 8.0   | 8.4   | 8.9   | 9.3   | 8.9   | 7.5   |
| 90°    | 2.9   | 5.2   | 7.5   | 9.8   | 12.1  | 13.3  | 14.1  | 15.8  | 17.5  | 19.2  | 20.9  |
| 92.5°  | 14.3  | 13.9  | 13.5  | 13.0  | 12.6  | 12.4  | 13.2  | 14.9  | 16.6  | 18.3  | 20.0  |
| 95°    | 52.3  | 45.1  | 37.9  | 30.8  | 23.6  | 20.0  | 20.1  | 20.3  | 20.5  | 20.7  | 20.9  |
| 97.5°  | 99.8  | 104.4 | 109.1 | 113.7 | 118.4 | 120.7 | 109.6 | 87.4  | 65.3  | 43.1  | 20.9  |
| 100°   | 155.8 | 159.6 | 163.4 | 167.2 | 171.0 | 172.9 | 158.3 | 129.2 | 100.1 | 70.9  | 41.8  |
| 102.5° | 218.6 | 221.1 | 223.7 | 226.2 | 228.7 | 230.0 | 231.3 | 233.8 | 236.3 | 238.9 | 241.4 |
| 105°   | 286.0 | 287.3 | 288.5 | 289.8 | 291.1 | 291.7 | 292.2 | 293.3 | 294.4 | 295.4 | 296.5 |
| 107.5° | 347.8 | 348.4 | 349.0 | 349.7 | 350.3 | 350.6 | 351.3 | 352.8 | 354.3 | 355.8 | 357.3 |
| 110°   | 410.5 | 411.1 | 411.8 | 412.4 | 413.1 | 413.4 | 414.0 | 415.3 | 416.6 | 417.8 | 419.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 471.3  | 472.6  | 473.8  | 475.1  | 476.4  | 477.0  | 477.2  | 477.6  | 478.1  | 478.5  | 478.9  |
| 115°   | 534.0  | 534.6  | 535.3  | 535.9  | 536.6  | 536.9  | 536.8  | 536.6  | 536.3  | 536.1  | 535.9  |
| 117.5° | 590.1  | 590.9  | 591.8  | 592.6  | 593.5  | 593.9  | 594.2  | 594.9  | 595.5  | 596.2  | 596.8  |
| 120°   | 647.1  | 647.9  | 648.8  | 649.6  | 650.5  | 650.9  | 650.8  | 650.6  | 650.4  | 650.2  | 650.0  |
| 122.5° | 700.3  | 700.7  | 701.1  | 701.6  | 702.0  | 702.2  | 702.4  | 702.8  | 703.3  | 703.7  | 704.1  |
| 125°   | 750.7  | 751.5  | 752.4  | 753.2  | 754.1  | 754.5  | 754.3  | 753.9  | 753.4  | 753.0  | 752.6  |
| 127.5° | 799.2  | 799.4  | 799.6  | 799.8  | 800.0  | 800.1  | 800.6  | 801.7  | 802.8  | 803.8  | 804.9  |
| 130°   | 845.7  | 845.9  | 846.1  | 846.4  | 846.6  | 846.7  | 847.0  | 847.6  | 848.3  | 848.9  | 849.5  |
| 132.5° | 888.5  | 888.9  | 889.3  | 889.8  | 890.2  | 890.4  | 890.8  | 891.7  | 892.5  | 893.4  | 894.2  |
| 135°   | 931.3  | 931.1  | 930.9  | 930.6  | 930.4  | 930.3  | 930.7  | 931.6  | 932.4  | 933.3  | 934.1  |
| 137.5° | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  | 969.8  | 970.9  | 971.9  | 973.0  | 974.0  |
| 140°   | 1006.3 | 1006.7 | 1007.1 | 1007.6 | 1008.0 | 1008.2 | 1008.4 | 1008.8 | 1009.3 | 1009.7 | 1010.1 |
| 142.5° | 1039.6 | 1040.4 | 1041.3 | 1042.1 | 1043.0 | 1043.4 | 1043.5 | 1043.7 | 1043.9 | 1044.1 | 1044.3 |
| 145°   | 1073.8 | 1074.4 | 1075.0 | 1075.7 | 1076.3 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 |
| 147.5° | 1100.4 | 1101.7 | 1102.9 | 1104.2 | 1105.5 | 1106.1 | 1106.0 | 1105.8 | 1105.6 | 1105.4 | 1105.2 |
| 150°   | 1129.9 | 1130.7 | 1131.6 | 1132.4 | 1133.3 | 1133.7 | 1133.6 | 1133.4 | 1133.1 | 1132.9 | 1132.7 |
| 152.5° | 1154.6 | 1155.2 | 1155.8 | 1156.5 | 1157.1 | 1157.4 | 1157.2 | 1156.8 | 1156.3 | 1155.9 | 1155.5 |
| 155°   | 1177.4 | 1177.6 | 1177.8 | 1178.0 | 1178.2 | 1178.3 | 1178.0 | 1177.4 | 1176.7 | 1176.1 | 1175.5 |
| 157.5° | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1196.9 | 1196.0 | 1195.2 | 1194.3 | 1193.5 |
| 160°   | 1214.4 | 1213.8 | 1213.2 | 1212.5 | 1211.9 | 1211.6 | 1211.5 | 1211.3 | 1211.0 | 1210.8 | 1210.6 |
| 162.5° | 1229.6 | 1228.8 | 1227.9 | 1227.1 | 1226.2 | 1225.8 | 1225.7 | 1225.5 | 1225.3 | 1225.1 | 1224.9 |
| 165°   | 1242.0 | 1240.9 | 1239.9 | 1238.8 | 1237.7 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.2 |
| 167.5° | 1252.4 | 1251.4 | 1250.3 | 1249.3 | 1248.2 | 1247.7 | 1247.6 | 1247.4 | 1247.1 | 1246.9 | 1246.7 |
| 170°   | 1261.0 | 1259.7 | 1258.5 | 1257.2 | 1255.9 | 1255.3 | 1255.4 | 1255.6 | 1255.8 | 1256.0 | 1256.2 |
| 172.5° | 1266.7 | 1265.4 | 1264.2 | 1262.9 | 1261.6 | 1261.0 | 1261.1 | 1261.3 | 1261.5 | 1261.7 | 1261.9 |
| 175°   | 1270.5 | 1269.2 | 1268.0 | 1266.7 | 1265.4 | 1264.8 | 1264.9 | 1265.1 | 1265.3 | 1265.5 | 1265.7 |
| 177.5° | 1273.4 | 1271.9 | 1270.4 | 1268.9 | 1267.4 | 1266.7 | 1266.9 | 1267.3 | 1267.8 | 1268.2 | 1268.6 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 |
| 2.5°   | 558.8 | 566.8 | 570.3 | 571.2 | 576.1 | 573.0 | 574.3 | 573.9 | 577.4 | 577.9 | 577.9 |
| 5°     | 599.6 | 608.9 | 612.0 | 616.4 | 623.1 | 624.9 | 623.5 | 626.2 | 631.1 | 627.5 | 632.8 |
| 7.5°   | 642.6 | 652.8 | 659.9 | 669.6 | 671.8 | 677.6 | 681.1 | 684.2 | 685.1 | 685.6 | 686.5 |
| 10°    | 682.5 | 695.3 | 705.1 | 721.5 | 725.0 | 728.1 | 743.6 | 737.4 | 745.4 | 742.7 | 743.6 |
| 12.5°  | 714.8 | 740.1 | 748.1 | 775.5 | 778.2 | 788.8 | 787.9 | 797.7 | 799.5 | 803.0 | 799.5 |
| 15°    | 757.4 | 786.6 | 799.5 | 815.0 | 823.8 | 836.2 | 838.5 | 851.8 | 857.1 | 861.9 | 857.1 |
| 17.5°  | 796.4 | 811.9 | 844.7 | 857.1 | 862.8 | 869.5 | 886.3 | 891.2 | 899.2 | 896.1 | 904.9 |
| 20°    | 815.9 | 838.0 | 872.6 | 893.9 | 902.7 | 908.9 | 923.1 | 930.6 | 933.7 | 933.7 | 934.6 |
| 22.5°  | 833.1 | 865.0 | 890.8 | 915.1 | 923.1 | 927.5 | 936.0 | 941.7 | 943.0 | 943.9 | 944.8 |
| 25°    | 848.7 | 877.5 | 898.3 | 912.0 | 915.1 | 915.1 | 920.0 | 916.5 | 910.7 | 915.1 | 917.8 |
| 27.5°  | 848.7 | 869.0 | 878.3 | 883.2 | 883.2 | 871.3 | 864.2 | 849.5 | 837.1 | 833.6 | 841.6 |
| 30°    | 834.5 | 843.8 | 830.9 | 819.0 | 809.7 | 801.7 | 773.8 | 751.6 | 747.2 | 744.1 | 756.0 |
| 32.5°  | 801.7 | 789.7 | 764.5 | 729.9 | 716.1 | 698.0 | 676.3 | 659.4 | 649.2 | 645.7 | 643.0 |
| 35°    | 743.6 | 712.6 | 679.8 | 633.3 | 623.5 | 600.5 | 570.8 | 558.4 | 541.5 | 541.1 | 546.9 |
| 37.5°  | 680.2 | 632.4 | 596.9 | 552.6 | 538.9 | 514.5 | 486.6 | 473.7 | 462.2 | 453.4 | 464.0 |
| 40°    | 606.2 | 564.6 | 510.5 | 474.2 | 454.7 | 441.8 | 418.3 | 404.2 | 398.8 | 394.4 | 401.1 |
| 42.5°  | 537.1 | 491.5 | 449.4 | 412.1 | 396.2 | 381.6 | 366.0 | 352.3 | 348.3 | 347.9 | 352.8 |
| 45°    | 468.4 | 423.7 | 384.7 | 352.8 | 342.6 | 333.7 | 318.6 | 314.6 | 308.0 | 303.6 | 305.8 |
| 47.5°  | 413.5 | 367.4 | 335.0 | 310.7 | 301.8 | 294.3 | 284.5 | 277.9 | 272.1 | 270.3 | 273.0 |
| 50°    | 359.4 | 328.4 | 295.1 | 274.8 | 268.1 | 261.0 | 253.5 | 247.3 | 244.6 | 242.9 | 244.6 |
| 52.5°  | 316.0 | 282.7 | 260.1 | 243.7 | 237.1 | 231.8 | 226.5 | 223.8 | 220.3 | 221.1 | 222.9 |
| 55°    | 277.0 | 247.7 | 228.7 | 216.7 | 212.7 | 210.5 | 203.9 | 200.8 | 199.4 | 198.5 | 199.4 |
| 57.5°  | 240.2 | 218.9 | 204.7 | 194.5 | 189.2 | 187.9 | 182.6 | 182.6 | 181.3 | 179.9 | 180.4 |
| 60°    | 210.9 | 192.8 | 179.0 | 171.1 | 170.2 | 168.0 | 164.4 | 164.0 | 160.9 | 162.2 | 162.6 |
| 62.5°  | 181.3 | 166.6 | 157.3 | 152.4 | 149.3 | 148.5 | 146.2 | 145.8 | 144.5 | 144.9 | 144.0 |
| 65°    | 157.8 | 145.8 | 136.5 | 132.5 | 131.2 | 130.7 | 129.0 | 127.6 | 126.7 | 127.6 | 126.7 |
| 67.5°  | 134.3 | 126.3 | 119.2 | 115.2 | 113.4 | 113.0 | 111.7 | 110.8 | 111.2 | 109.9 | 110.8 |
| 70°    | 112.1 | 104.1 | 99.7  | 97.5  | 96.6  | 95.3  | 95.3  | 95.3  | 95.3  | 94.4  | 93.9  |
| 72.5°  | 94.4  | 86.4  | 83.3  | 82.0  | 81.1  | 80.7  | 79.3  | 79.8  | 79.3  | 78.9  | 80.7  |
| 75°    | 74.9  | 70.0  | 66.9  | 65.6  | 66.5  | 65.1  | 63.8  | 64.7  | 63.4  | 63.8  | 65.6  |
| 77.5°  | 56.7  | 54.5  | 52.7  | 51.8  | 51.0  | 50.1  | 50.1  | 49.2  | 49.2  | 49.2  | 49.2  |
| 80°    | 41.2  | 40.8  | 37.7  | 37.2  | 37.2  | 36.3  | 36.3  | 36.3  | 36.3  | 35.9  | 36.3  |
| 82.5°  | 27.5  | 27.0  | 26.1  | 25.7  | 24.8  | 25.3  | 25.3  | 24.4  | 24.4  | 23.9  | 24.4  |
| 85°    | 16.0  | 16.0  | 15.1  | 14.6  | 14.2  | 14.6  | 13.7  | 13.3  | 13.7  | 13.3  | 13.7  |
| 87.5°  | 7.5   | 6.6   | 7.1   | 6.6   | 5.8   | 6.2   | 5.3   | 5.8   | 5.3   | 4.9   | 5.8   |
| 90°    | 22.2  | 23.4  | 24.7  | 26.0  | 26.6  | 26.8  | 27.2  | 27.7  | 28.1  | 28.5  | 28.1  |
| 92.5°  | 21.3  | 22.5  | 23.8  | 25.1  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  |
| 95°    | 22.2  | 23.4  | 24.7  | 26.0  | 26.6  | 26.7  | 26.9  | 27.2  | 27.4  | 27.6  | 27.4  |
| 97.5°  | 22.0  | 23.0  | 24.1  | 25.2  | 25.7  | 25.8  | 26.0  | 26.2  | 26.4  | 26.6  | 26.4  |
| 100°   | 38.2  | 34.6  | 31.1  | 27.5  | 25.7  | 25.8  | 26.0  | 26.2  | 26.4  | 26.6  | 26.4  |
| 102.5° | 193.9 | 146.4 | 98.9  | 51.4  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  |
| 105°   | 298.4 | 300.3 | 302.2 | 304.1 | 305.0 | 301.2 | 293.6 | 286.0 | 278.4 | 270.8 | 278.4 |
| 107.5° | 358.3 | 359.4 | 360.4 | 361.5 | 362.0 | 362.4 | 363.3 | 364.2 | 365.0 | 365.9 | 365.0 |
| 110°   | 419.5 | 419.9 | 420.4 | 420.8 | 421.0 | 421.3 | 421.9 | 422.6 | 423.2 | 423.8 | 423.2 |



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CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 478.7  | 478.5  | 478.3  | 478.1  | 478.0  | 478.4  | 479.3  | 480.1  | 481.0  | 481.8  | 481.0  |
| 115°   | 536.3  | 536.7  | 537.2  | 537.6  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  |
| 117.5° | 596.6  | 596.4  | 596.1  | 595.9  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  |
| 120°   | 650.4  | 650.8  | 651.3  | 651.7  | 651.9  | 651.7  | 651.3  | 650.8  | 650.4  | 650.0  | 650.4  |
| 122.5° | 704.3  | 704.5  | 704.8  | 705.0  | 705.1  | 704.9  | 704.5  | 704.0  | 703.6  | 703.2  | 703.6  |
| 125°   | 753.2  | 753.9  | 754.5  | 755.2  | 755.5  | 755.6  | 755.8  | 756.0  | 756.2  | 756.4  | 756.2  |
| 127.5° | 804.7  | 804.5  | 804.2  | 804.0  | 803.9  | 803.8  | 803.6  | 803.4  | 803.2  | 803.0  | 803.2  |
| 130°   | 849.7  | 849.9  | 850.2  | 850.4  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  |
| 132.5° | 894.4  | 894.6  | 894.8  | 895.0  | 895.1  | 895.0  | 894.8  | 894.6  | 894.4  | 894.2  | 894.4  |
| 135°   | 934.5  | 934.9  | 935.4  | 935.8  | 936.0  | 936.2  | 936.6  | 937.1  | 937.5  | 937.9  | 937.5  |
| 137.5° | 974.4  | 974.8  | 975.3  | 975.7  | 975.9  | 975.8  | 975.6  | 975.4  | 975.2  | 975.0  | 975.2  |
| 140°   | 1010.7 | 1011.4 | 1012.0 | 1012.7 | 1013.0 | 1013.1 | 1013.3 | 1013.5 | 1013.7 | 1013.9 | 1013.7 |
| 142.5° | 1044.7 | 1045.1 | 1045.6 | 1046.0 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 |
| 145°   | 1076.8 | 1077.0 | 1077.3 | 1077.5 | 1077.6 | 1077.8 | 1078.2 | 1078.7 | 1079.1 | 1079.5 | 1079.1 |
| 147.5° | 1105.4 | 1105.6 | 1105.8 | 1106.0 | 1106.1 | 1106.2 | 1106.4 | 1106.7 | 1106.9 | 1107.1 | 1106.9 |
| 150°   | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.8 | 1133.0 | 1133.3 | 1133.5 | 1133.7 | 1133.5 |
| 152.5° | 1155.9 | 1156.3 | 1156.8 | 1157.2 | 1157.4 | 1157.3 | 1157.1 | 1156.9 | 1156.7 | 1156.5 | 1156.7 |
| 155°   | 1176.3 | 1177.2 | 1178.0 | 1178.9 | 1179.3 | 1179.0 | 1178.3 | 1177.7 | 1177.0 | 1176.4 | 1177.0 |
| 157.5° | 1194.6 | 1195.6 | 1196.7 | 1197.8 | 1198.3 | 1197.8 | 1196.7 | 1195.6 | 1194.6 | 1193.5 | 1194.6 |
| 160°   | 1211.9 | 1213.1 | 1214.4 | 1215.7 | 1216.3 | 1215.7 | 1214.4 | 1213.1 | 1211.9 | 1210.6 | 1211.9 |
| 162.5° | 1226.2 | 1227.4 | 1228.7 | 1230.0 | 1230.6 | 1229.9 | 1228.4 | 1226.9 | 1225.4 | 1223.9 | 1225.4 |
| 165°   | 1238.9 | 1240.6 | 1242.3 | 1244.0 | 1244.8 | 1243.9 | 1242.0 | 1240.1 | 1238.2 | 1236.3 | 1238.2 |
| 167.5° | 1248.6 | 1250.5 | 1252.4 | 1254.3 | 1255.3 | 1254.2 | 1252.1 | 1250.0 | 1247.9 | 1245.8 | 1247.9 |
| 170°   | 1257.9 | 1259.6 | 1261.3 | 1263.0 | 1263.8 | 1262.7 | 1260.6 | 1258.5 | 1256.4 | 1254.3 | 1256.4 |
| 172.5° | 1263.6 | 1265.3 | 1267.0 | 1268.7 | 1269.6 | 1268.4 | 1266.1 | 1263.8 | 1261.4 | 1259.1 | 1261.4 |
| 175°   | 1267.6 | 1269.5 | 1271.4 | 1273.3 | 1274.3 | 1273.0 | 1270.5 | 1268.0 | 1265.4 | 1262.9 | 1265.4 |
| 177.5° | 1270.3 | 1272.0 | 1273.7 | 1275.4 | 1276.2 | 1274.9 | 1272.4 | 1269.9 | 1267.3 | 1264.8 | 1267.3 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 534.9 | 534.9 | 534.9 | 534.9  | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 |
| 2.5°   | 577.0 | 575.7 | 573.9 | 573.9  | 571.7 | 571.7 | 568.1 | 561.9 | 556.6 | 554.8 | 555.7 |
| 5°     | 626.2 | 626.6 | 624.0 | 621.8  | 617.8 | 614.7 | 608.9 | 597.8 | 594.3 | 587.2 | 582.3 |
| 7.5°   | 682.5 | 680.7 | 675.8 | 672.3  | 671.4 | 664.3 | 651.9 | 638.6 | 628.0 | 620.9 | 610.7 |
| 10°    | 745.8 | 738.7 | 731.7 | 729.4  | 724.1 | 712.2 | 698.0 | 683.4 | 668.7 | 653.2 | 635.9 |
| 12.5°  | 799.0 | 785.3 | 784.8 | 779.5  | 769.3 | 762.7 | 745.8 | 725.0 | 699.7 | 682.5 | 663.0 |
| 15°    | 856.2 | 843.3 | 832.7 | 822.9  | 818.1 | 798.6 | 784.4 | 758.2 | 728.1 | 709.5 | 696.2 |
| 17.5°  | 897.0 | 891.2 | 873.0 | 868.6  | 861.9 | 839.3 | 816.7 | 791.0 | 764.9 | 738.7 | 702.9 |
| 20°    | 929.7 | 926.2 | 914.2 | 908.0  | 897.4 | 879.7 | 852.2 | 822.5 | 792.4 | 755.1 | 721.5 |
| 22.5°  | 943.9 | 939.5 | 929.7 | 924.4  | 917.8 | 902.7 | 879.2 | 845.5 | 806.1 | 772.9 | 737.0 |
| 25°    | 916.0 | 924.0 | 921.3 | 919.1  | 916.5 | 907.6 | 889.9 | 860.2 | 821.6 | 783.9 | 739.2 |
| 27.5°  | 853.1 | 866.8 | 880.1 | 881.9  | 886.3 | 889.9 | 882.8 | 861.5 | 829.2 | 789.3 | 740.1 |
| 30°    | 768.4 | 774.6 | 801.7 | 809.7  | 815.9 | 838.5 | 851.8 | 846.4 | 821.6 | 785.7 | 740.5 |
| 32.5°  | 659.9 | 676.3 | 703.7 | 722.8  | 739.6 | 764.9 | 799.5 | 813.2 | 804.3 | 775.1 | 730.3 |
| 35°    | 557.1 | 576.6 | 608.5 | 632.8  | 649.7 | 685.6 | 726.3 | 756.0 | 767.1 | 752.5 | 712.6 |
| 37.5°  | 472.9 | 496.3 | 524.7 | 534.0  | 553.5 | 597.8 | 654.1 | 695.3 | 722.3 | 723.7 | 692.7 |
| 40°    | 409.5 | 421.4 | 444.0 | 458.2  | 477.3 | 514.5 | 569.5 | 624.0 | 664.7 | 678.5 | 662.1 |
| 42.5°  | 355.9 | 365.2 | 382.0 | 399.3  | 416.6 | 444.9 | 495.5 | 546.4 | 601.4 | 628.8 | 628.4 |
| 45°    | 313.3 | 323.1 | 334.6 | 348.8  | 360.7 | 391.3 | 431.2 | 483.5 | 530.9 | 573.4 | 584.1 |
| 47.5°  | 276.1 | 284.5 | 298.7 | 304.9  | 312.9 | 341.7 | 376.2 | 425.0 | 474.2 | 522.9 | 535.3 |
| 50°    | 248.6 | 255.7 | 265.5 | 269.4  | 278.3 | 299.6 | 327.9 | 367.4 | 421.9 | 466.6 | 489.7 |
| 52.5°  | 223.8 | 229.1 | 236.6 | 239.7  | 246.0 | 261.9 | 287.6 | 318.6 | 363.8 | 409.9 | 442.3 |
| 55°    | 202.5 | 206.1 | 211.4 | 214.9  | 219.4 | 233.5 | 252.6 | 280.5 | 319.5 | 359.4 | 390.9 |
| 57.5°  | 182.6 | 185.2 | 190.6 | 192.3  | 195.9 | 207.0 | 220.3 | 243.7 | 279.6 | 315.1 | 345.7 |
| 60°    | 164.0 | 165.7 | 168.8 | 172.8  | 175.5 | 183.0 | 195.4 | 214.9 | 243.7 | 276.1 | 300.9 |
| 62.5°  | 146.2 | 148.9 | 149.8 | 151.6  | 153.8 | 160.9 | 170.6 | 184.8 | 210.1 | 236.6 | 262.8 |
| 65°    | 128.1 | 130.3 | 132.1 | 132.5  | 134.7 | 140.0 | 148.9 | 161.3 | 177.7 | 200.8 | 225.1 |
| 67.5°  | 111.2 | 112.6 | 113.4 | 115.2  | 117.4 | 120.1 | 127.2 | 136.5 | 151.6 | 170.2 | 189.7 |
| 70°    | 95.7  | 95.7  | 97.1  | 97.5   | 100.2 | 103.3 | 106.4 | 115.2 | 128.5 | 143.6 | 156.9 |
| 72.5°  | 78.9  | 81.1  | 80.7  | 82.9   | 82.4  | 84.6  | 88.6  | 94.4  | 104.1 | 116.1 | 129.0 |
| 75°    | 64.3  | 65.6  | 65.6  | 65.6   | 66.5  | 68.2  | 70.5  | 75.8  | 83.3  | 93.1  | 100.6 |
| 77.5°  | 50.1  | 51.0  | 51.0  | 51.0   | 51.4  | 53.2  | 55.4  | 58.9  | 64.3  | 70.0  | 74.5  |
| 80°    | 35.9  | 36.8  | 36.8  | 37.7   | 37.7  | 38.1  | 40.3  | 42.1  | 44.8  | 49.2  | 53.6  |
| 82.5°  | 24.4  | 24.8  | 25.7  | 25.7   | 25.3  | 26.1  | 26.6  | 28.4  | 31.0  | 31.9  | 35.0  |
| 85°    | 13.3  | 13.7  | 14.2  | 14.2   | 14.6  | 15.5  | 15.1  | 16.8  | 16.8  | 18.6  | 19.5  |
| 87.5°  | 5.3   | 6.2   | 6.2   | 5.8    | 6.2   | 6.2   | 6.2   | 7.1   | 7.5   | 8.0   | 7.5   |
| 90°    | 27.7  | 27.2  | 26.8  | 26.6   | 26.0  | 24.7  | 23.4  | 22.2  | 20.9  | 19.2  | 17.5  |
| 92.5°  | 25.7  | 25.7  | 25.7  | 25.7   | 25.1  | 23.8  | 22.5  | 21.3  | 20.0  | 18.3  | 16.6  |
| 95°    | 27.2  | 26.9  | 26.7  | 26.6   | 26.0  | 24.7  | 23.4  | 22.2  | 20.9  | 20.7  | 20.5  |
| 97.5°  | 26.2  | 26.0  | 25.8  | 25.7   | 25.2  | 24.1  | 23.0  | 22.0  | 20.9  | 43.1  | 65.3  |
| 100°   | 26.2  | 26.0  | 25.8  | 25.7   | 27.5  | 31.1  | 34.6  | 38.2  | 41.8  | 70.9  | 100.1 |
| 102.5° | 27.6  | 27.6  | 27.6  | 27.6   | 51.4  | 98.9  | 146.4 | 193.9 | 241.4 | 238.9 | 236.3 |
| 105°   | 286.0 | 293.6 | 301.2 | 305.0  | 304.1 | 302.2 | 300.3 | 298.4 | 296.5 | 295.4 | 294.4 |
| 107.5° | 364.2 | 363.3 | 362.4 | 362.0  | 361.5 | 360.4 | 359.4 | 358.3 | 357.3 | 355.8 | 354.3 |
| 110°   | 422.6 | 421.9 | 421.3 | 421.0  | 420.8 | 420.4 | 419.9 | 419.5 | 419.1 | 417.8 | 416.6 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 480.1  | 479.3  | 478.4  | 478.0  | 478.1  | 478.3  | 478.5  | 478.7  | 478.9  | 478.5  | 478.1  |
| 115°   | 537.8  | 537.8  | 537.8  | 537.8  | 537.6  | 537.2  | 536.7  | 536.3  | 535.9  | 536.1  | 536.3  |
| 117.5° | 595.8  | 595.8  | 595.8  | 595.8  | 595.9  | 596.1  | 596.4  | 596.6  | 596.8  | 596.2  | 595.5  |
| 120°   | 650.8  | 651.3  | 651.7  | 651.9  | 651.7  | 651.3  | 650.8  | 650.4  | 650.0  | 650.2  | 650.4  |
| 122.5° | 704.0  | 704.5  | 704.9  | 705.1  | 705.0  | 704.8  | 704.5  | 704.3  | 704.1  | 703.7  | 703.3  |
| 125°   | 756.0  | 755.8  | 755.6  | 755.5  | 755.2  | 754.5  | 753.9  | 753.2  | 752.6  | 753.0  | 753.4  |
| 127.5° | 803.4  | 803.6  | 803.8  | 803.9  | 804.0  | 804.2  | 804.5  | 804.7  | 804.9  | 803.8  | 802.8  |
| 130°   | 850.5  | 850.5  | 850.5  | 850.5  | 850.4  | 850.2  | 849.9  | 849.7  | 849.5  | 848.9  | 848.3  |
| 132.5° | 894.6  | 894.8  | 895.0  | 895.1  | 895.0  | 894.8  | 894.6  | 894.4  | 894.2  | 893.4  | 892.5  |
| 135°   | 937.1  | 936.6  | 936.2  | 936.0  | 935.8  | 935.4  | 934.9  | 934.5  | 934.1  | 933.3  | 932.4  |
| 137.5° | 975.4  | 975.6  | 975.8  | 975.9  | 975.7  | 975.3  | 974.8  | 974.4  | 974.0  | 973.0  | 971.9  |
| 140°   | 1013.5 | 1013.3 | 1013.1 | 1013.0 | 1012.7 | 1012.0 | 1011.4 | 1010.7 | 1010.1 | 1009.7 | 1009.3 |
| 142.5° | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.0 | 1045.6 | 1045.1 | 1044.7 | 1044.3 | 1044.1 | 1043.9 |
| 145°   | 1078.7 | 1078.2 | 1077.8 | 1077.6 | 1077.5 | 1077.3 | 1077.0 | 1076.8 | 1076.6 | 1076.6 | 1076.6 |
| 147.5° | 1106.7 | 1106.4 | 1106.2 | 1106.1 | 1106.0 | 1105.8 | 1105.6 | 1105.4 | 1105.2 | 1105.4 | 1105.6 |
| 150°   | 1133.3 | 1133.0 | 1132.8 | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.9 | 1133.1 |
| 152.5° | 1156.9 | 1157.1 | 1157.3 | 1157.4 | 1157.2 | 1156.8 | 1156.3 | 1155.9 | 1155.5 | 1155.9 | 1156.3 |
| 155°   | 1177.7 | 1178.3 | 1179.0 | 1179.3 | 1178.9 | 1178.0 | 1177.2 | 1176.3 | 1175.5 | 1176.1 | 1176.7 |
| 157.5° | 1195.6 | 1196.7 | 1197.8 | 1198.3 | 1197.8 | 1196.7 | 1195.6 | 1194.6 | 1193.5 | 1194.3 | 1195.2 |
| 160°   | 1213.1 | 1214.4 | 1215.7 | 1216.3 | 1215.7 | 1214.4 | 1213.1 | 1211.9 | 1210.6 | 1210.8 | 1211.0 |
| 162.5° | 1226.9 | 1228.4 | 1229.9 | 1230.6 | 1230.0 | 1228.7 | 1227.4 | 1226.2 | 1224.9 | 1225.1 | 1225.3 |
| 165°   | 1240.1 | 1242.0 | 1243.9 | 1244.8 | 1244.0 | 1242.3 | 1240.6 | 1238.9 | 1237.2 | 1237.2 | 1237.2 |
| 167.5° | 1250.0 | 1252.1 | 1254.2 | 1255.3 | 1254.3 | 1252.4 | 1250.5 | 1248.6 | 1246.7 | 1246.9 | 1247.1 |
| 170°   | 1258.5 | 1260.6 | 1262.7 | 1263.8 | 1263.0 | 1261.3 | 1259.6 | 1257.9 | 1256.2 | 1256.0 | 1255.8 |
| 172.5° | 1263.8 | 1266.1 | 1268.4 | 1269.6 | 1268.7 | 1267.0 | 1265.3 | 1263.6 | 1261.9 | 1261.7 | 1261.5 |
| 175°   | 1268.0 | 1270.5 | 1273.0 | 1274.3 | 1273.3 | 1271.4 | 1269.5 | 1267.6 | 1265.7 | 1265.5 | 1265.3 |
| 177.5° | 1269.9 | 1272.4 | 1274.9 | 1276.2 | 1275.4 | 1273.7 | 1272.0 | 1270.3 | 1268.6 | 1268.2 | 1267.8 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 534.9 | 534.9 | 534.9  | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 |
| 2.5°   | 551.7 | 550.0 | 548.6  | 548.6 | 544.6 | 540.7 | 538.4 | 537.6 | 536.7 | 533.1 | 528.2 |
| 5°     | 574.3 | 568.6 | 564.6  | 560.6 | 553.9 | 546.9 | 539.8 | 535.8 | 530.0 | 522.0 | 516.3 |
| 7.5°   | 599.6 | 585.9 | 581.4  | 576.6 | 563.3 | 551.3 | 541.5 | 533.1 | 523.8 | 513.6 | 503.4 |
| 10°    | 620.9 | 606.2 | 596.5  | 588.1 | 570.8 | 554.8 | 540.2 | 527.8 | 515.8 | 502.5 | 490.1 |
| 12.5°  | 641.3 | 620.4 | 610.2  | 597.8 | 579.7 | 556.6 | 537.6 | 522.0 | 504.3 | 490.6 | 475.5 |
| 15°    | 669.6 | 634.6 | 617.8  | 609.8 | 585.4 | 558.4 | 535.3 | 512.3 | 497.7 | 476.8 | 463.5 |
| 17.5°  | 674.0 | 645.7 | 634.6  | 614.2 | 585.0 | 554.4 | 527.8 | 504.8 | 482.6 | 464.0 | 446.7 |
| 20°    | 689.6 | 652.3 | 634.6  | 621.8 | 583.2 | 552.2 | 522.9 | 493.2 | 472.0 | 452.0 | 432.5 |
| 22.5°  | 699.3 | 657.2 | 638.6  | 618.2 | 581.4 | 544.2 | 509.6 | 483.9 | 457.8 | 437.4 | 421.9 |
| 25°    | 696.6 | 654.5 | 633.7  | 614.7 | 569.9 | 532.7 | 501.7 | 468.9 | 444.5 | 422.3 | 401.9 |
| 27.5°  | 695.3 | 647.9 | 625.7  | 604.5 | 562.4 | 523.4 | 484.4 | 457.8 | 430.8 | 405.0 | 390.0 |
| 30°    | 691.8 | 639.5 | 613.8  | 590.7 | 546.9 | 506.1 | 472.9 | 441.8 | 414.8 | 391.3 | 371.4 |
| 32.5°  | 679.8 | 625.3 | 600.5  | 575.7 | 530.0 | 489.2 | 455.6 | 426.8 | 399.7 | 375.4 | 356.3 |
| 35°    | 663.9 | 608.5 | 581.4  | 555.3 | 509.6 | 468.4 | 437.4 | 407.3 | 382.0 | 358.5 | 340.3 |
| 37.5°  | 647.9 | 589.0 | 563.7  | 533.6 | 491.5 | 448.5 | 416.6 | 389.5 | 366.0 | 341.7 | 321.7 |
| 40°    | 624.9 | 565.9 | 538.0  | 512.3 | 463.1 | 422.8 | 393.5 | 369.2 | 346.1 | 323.1 | 306.2 |
| 42.5°  | 593.4 | 540.7 | 511.8  | 483.5 | 437.4 | 397.5 | 369.2 | 347.4 | 325.7 | 306.7 | 288.1 |
| 45°    | 561.5 | 510.1 | 484.4  | 459.1 | 409.0 | 371.4 | 345.2 | 325.3 | 307.1 | 286.3 | 271.2 |
| 47.5°  | 522.9 | 479.5 | 453.8  | 429.0 | 381.6 | 343.9 | 320.0 | 301.3 | 284.5 | 267.2 | 253.0 |
| 50°    | 483.5 | 445.8 | 422.3  | 396.6 | 351.4 | 317.3 | 293.8 | 278.3 | 264.6 | 248.2 | 236.6 |
| 52.5°  | 440.9 | 408.1 | 388.2  | 363.4 | 323.5 | 292.0 | 268.1 | 252.6 | 241.1 | 229.1 | 218.9 |
| 55°    | 395.7 | 371.8 | 350.5  | 330.6 | 292.9 | 264.6 | 243.3 | 229.6 | 221.6 | 210.5 | 201.6 |
| 57.5°  | 355.0 | 331.9 | 319.1  | 296.5 | 263.7 | 235.8 | 218.9 | 207.4 | 198.1 | 191.4 | 184.4 |
| 60°    | 312.4 | 293.8 | 279.6  | 263.2 | 234.4 | 210.9 | 193.2 | 186.6 | 176.8 | 171.9 | 168.8 |
| 62.5°  | 271.7 | 258.4 | 245.1  | 232.7 | 207.0 | 184.8 | 171.5 | 163.1 | 157.3 | 152.4 | 149.8 |
| 65°    | 233.1 | 220.7 | 211.4  | 200.3 | 179.0 | 161.3 | 148.9 | 142.3 | 136.5 | 135.2 | 132.1 |
| 67.5°  | 195.4 | 190.1 | 179.9  | 171.1 | 152.9 | 139.2 | 129.8 | 121.4 | 118.3 | 117.0 | 114.3 |
| 70°    | 163.5 | 157.3 | 149.3  | 141.8 | 128.1 | 116.1 | 107.7 | 104.6 | 100.2 | 99.7  | 96.6  |
| 72.5°  | 134.7 | 127.2 | 121.4  | 115.7 | 105.5 | 94.8  | 90.4  | 86.0  | 83.8  | 82.0  | 80.7  |
| 75°    | 106.8 | 101.5 | 97.5   | 92.6  | 83.8  | 76.7  | 70.5  | 68.7  | 67.4  | 66.9  | 66.0  |
| 77.5°  | 79.8  | 76.2  | 74.5   | 69.6  | 63.4  | 57.2  | 54.5  | 51.8  | 51.8  | 51.0  | 51.4  |
| 80°    | 56.7  | 54.5  | 52.3   | 49.6  | 44.3  | 41.7  | 39.4  | 37.7  | 36.8  | 36.3  | 36.8  |
| 82.5°  | 35.9  | 34.6  | 34.1   | 32.4  | 28.8  | 27.5  | 25.7  | 24.4  | 24.4  | 24.4  | 24.4  |
| 85°    | 19.9  | 19.9  | 19.9   | 17.3  | 16.0  | 14.6  | 13.7  | 13.3  | 13.3  | 13.3  | 13.7  |
| 87.5°  | 8.4   | 8.4   | 7.1    | 7.1   | 6.6   | 5.8   | 5.3   | 5.3   | 5.8   | 5.8   | 6.2   |
| 90°    | 15.8  | 14.1  | 13.3   | 12.1  | 9.8   | 7.5   | 5.2   | 2.9   | 5.2   | 7.5   | 9.8   |
| 92.5°  | 14.9  | 13.2  | 12.4   | 12.6  | 13.0  | 13.5  | 13.9  | 14.3  | 13.9  | 13.5  | 13.0  |
| 95°    | 20.3  | 20.1  | 20.0   | 23.6  | 30.8  | 37.9  | 45.1  | 52.3  | 45.1  | 37.9  | 30.8  |
| 97.5°  | 87.4  | 109.6 | 120.7  | 118.4 | 113.7 | 109.1 | 104.4 | 99.8  | 104.4 | 109.1 | 113.7 |
| 100°   | 129.2 | 158.3 | 172.9  | 171.0 | 167.2 | 163.4 | 159.6 | 155.8 | 159.6 | 163.4 | 167.2 |
| 102.5° | 233.8 | 231.3 | 230.0  | 228.7 | 226.2 | 223.7 | 221.1 | 218.6 | 221.1 | 223.7 | 226.2 |
| 105°   | 293.3 | 292.2 | 291.7  | 291.1 | 289.8 | 288.5 | 287.3 | 286.0 | 287.3 | 288.5 | 289.8 |
| 107.5° | 352.8 | 351.3 | 350.6  | 350.3 | 349.7 | 349.0 | 348.4 | 347.8 | 348.4 | 349.0 | 349.7 |
| 110°   | 415.3 | 414.0 | 413.4  | 413.1 | 412.4 | 411.8 | 411.1 | 410.5 | 411.1 | 411.8 | 412.4 |

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CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 477.6  | 477.2  | 477.0  | 476.4  | 475.1  | 473.8  | 472.6  | 471.3  | 472.6  | 473.8  | 475.1  |
| 115°   | 536.6  | 536.8  | 536.9  | 536.6  | 535.9  | 535.3  | 534.6  | 534.0  | 534.6  | 535.3  | 535.9  |
| 117.5° | 594.9  | 594.2  | 593.9  | 593.5  | 592.6  | 591.8  | 590.9  | 590.1  | 590.9  | 591.8  | 592.6  |
| 120°   | 650.6  | 650.8  | 650.9  | 650.5  | 649.6  | 648.8  | 647.9  | 647.1  | 647.9  | 648.8  | 649.6  |
| 122.5° | 702.8  | 702.4  | 702.2  | 702.0  | 701.6  | 701.1  | 700.7  | 700.3  | 700.7  | 701.1  | 701.6  |
| 125°   | 753.9  | 754.3  | 754.5  | 754.1  | 753.2  | 752.4  | 751.5  | 750.7  | 751.5  | 752.4  | 753.2  |
| 127.5° | 801.7  | 800.6  | 800.1  | 800.0  | 799.8  | 799.6  | 799.4  | 799.2  | 799.4  | 799.6  | 799.8  |
| 130°   | 847.6  | 847.0  | 846.7  | 846.6  | 846.4  | 846.1  | 845.9  | 845.7  | 845.9  | 846.1  | 846.4  |
| 132.5° | 891.7  | 890.8  | 890.4  | 890.2  | 889.8  | 889.3  | 888.9  | 888.5  | 888.9  | 889.3  | 889.8  |
| 135°   | 931.6  | 930.7  | 930.3  | 930.4  | 930.6  | 930.9  | 931.1  | 931.3  | 931.1  | 930.9  | 930.6  |
| 137.5° | 970.9  | 969.8  | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  | 969.3  |
| 140°   | 1008.8 | 1008.4 | 1008.2 | 1008.0 | 1007.6 | 1007.1 | 1006.7 | 1006.3 | 1006.7 | 1007.1 | 1007.6 |
| 142.5° | 1043.7 | 1043.5 | 1043.4 | 1043.0 | 1042.1 | 1041.3 | 1040.4 | 1039.6 | 1040.4 | 1041.3 | 1042.1 |
| 145°   | 1076.6 | 1076.6 | 1076.6 | 1076.3 | 1075.7 | 1075.0 | 1074.4 | 1073.8 | 1074.4 | 1075.0 | 1075.7 |
| 147.5° | 1105.8 | 1106.0 | 1106.1 | 1105.5 | 1104.2 | 1102.9 | 1101.7 | 1100.4 | 1101.7 | 1102.9 | 1104.2 |
| 150°   | 1133.4 | 1133.6 | 1133.7 | 1133.3 | 1132.4 | 1131.6 | 1130.7 | 1129.9 | 1130.7 | 1131.6 | 1132.4 |
| 152.5° | 1156.8 | 1157.2 | 1157.4 | 1157.1 | 1156.5 | 1155.8 | 1155.2 | 1154.6 | 1155.2 | 1155.8 | 1156.5 |
| 155°   | 1177.4 | 1178.0 | 1178.3 | 1178.2 | 1178.0 | 1177.8 | 1177.6 | 1177.4 | 1177.6 | 1177.8 | 1178.0 |
| 157.5° | 1196.0 | 1196.9 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 |
| 160°   | 1211.3 | 1211.5 | 1211.6 | 1211.9 | 1212.5 | 1213.2 | 1213.8 | 1214.4 | 1213.8 | 1213.2 | 1212.5 |
| 162.5° | 1225.5 | 1225.7 | 1225.8 | 1226.2 | 1227.1 | 1227.9 | 1228.8 | 1229.6 | 1228.8 | 1227.9 | 1227.1 |
| 165°   | 1237.2 | 1237.2 | 1237.2 | 1237.7 | 1238.8 | 1239.9 | 1240.9 | 1242.0 | 1240.9 | 1239.9 | 1238.8 |
| 167.5° | 1247.4 | 1247.6 | 1247.7 | 1248.2 | 1249.3 | 1250.3 | 1251.4 | 1252.4 | 1251.4 | 1250.3 | 1249.3 |
| 170°   | 1255.6 | 1255.4 | 1255.3 | 1255.9 | 1257.2 | 1258.5 | 1259.7 | 1261.0 | 1259.7 | 1258.5 | 1257.2 |
| 172.5° | 1261.3 | 1261.1 | 1261.0 | 1261.6 | 1262.9 | 1264.2 | 1265.4 | 1266.7 | 1265.4 | 1264.2 | 1262.9 |
| 175°   | 1265.1 | 1264.9 | 1264.8 | 1265.4 | 1266.7 | 1268.0 | 1269.2 | 1270.5 | 1269.2 | 1268.0 | 1266.7 |
| 177.5° | 1267.3 | 1266.9 | 1266.7 | 1267.4 | 1268.9 | 1270.4 | 1271.9 | 1273.4 | 1271.9 | 1270.4 | 1268.9 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 534.9 | 534.9  | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 |
| 2.5°   | 526.9 | 525.1  | 526.0 | 521.6 | 517.6 | 511.8 | 507.0 | 506.1 | 505.2 | 507.9 | 506.1 |
| 5°     | 511.8 | 509.6  | 507.4 | 502.1 | 494.1 | 489.2 | 482.2 | 481.7 | 479.1 | 475.1 | 476.0 |
| 7.5°   | 495.5 | 494.1  | 491.0 | 482.6 | 475.5 | 467.1 | 461.3 | 456.5 | 454.2 | 450.7 | 449.4 |
| 10°    | 482.2 | 477.3  | 474.6 | 465.3 | 456.9 | 448.0 | 440.5 | 437.0 | 433.0 | 429.9 | 427.6 |
| 12.5°  | 464.0 | 462.7  | 455.1 | 447.6 | 440.5 | 430.3 | 424.5 | 414.4 | 409.0 | 411.7 | 410.8 |
| 15°    | 452.0 | 445.8  | 444.0 | 433.4 | 421.4 | 414.8 | 404.2 | 397.5 | 395.3 | 391.3 | 386.4 |
| 17.5°  | 436.1 | 432.1  | 425.9 | 416.1 | 402.4 | 393.1 | 385.5 | 379.3 | 376.7 | 371.4 | 367.4 |
| 20°    | 421.0 | 414.4  | 409.5 | 400.6 | 387.3 | 375.4 | 366.0 | 362.1 | 355.4 | 351.0 | 348.8 |
| 22.5°  | 407.3 | 402.4  | 395.3 | 382.0 | 370.5 | 359.0 | 347.9 | 342.1 | 335.9 | 333.3 | 329.7 |
| 25°    | 390.4 | 382.4  | 377.6 | 362.9 | 350.5 | 341.2 | 331.0 | 323.5 | 320.0 | 315.5 | 314.6 |
| 27.5°  | 374.0 | 366.5  | 360.7 | 347.9 | 332.8 | 320.8 | 314.6 | 309.3 | 303.1 | 303.1 | 300.9 |
| 30°    | 357.6 | 352.3  | 343.4 | 331.0 | 316.9 | 305.3 | 298.2 | 293.4 | 291.2 | 289.4 | 288.9 |
| 32.5°  | 341.2 | 334.1  | 328.8 | 312.0 | 301.3 | 290.7 | 285.4 | 281.4 | 278.7 | 278.3 | 278.7 |
| 35°    | 324.4 | 316.4  | 311.1 | 296.0 | 285.4 | 275.6 | 273.4 | 269.9 | 268.6 | 268.1 | 270.3 |
| 37.5°  | 306.7 | 300.5  | 293.8 | 281.4 | 269.4 | 263.7 | 259.2 | 257.9 | 257.5 | 260.1 | 261.0 |
| 40°    | 290.3 | 285.0  | 278.7 | 265.5 | 256.6 | 250.4 | 248.2 | 246.8 | 248.6 | 251.3 | 252.6 |
| 42.5°  | 274.8 | 267.2  | 262.4 | 250.4 | 242.4 | 238.9 | 236.2 | 236.2 | 238.0 | 241.1 | 243.3 |
| 45°    | 258.4 | 252.6  | 247.7 | 237.1 | 230.0 | 226.0 | 225.6 | 226.0 | 228.2 | 230.4 | 233.1 |
| 47.5°  | 242.4 | 236.6  | 231.3 | 222.5 | 216.3 | 214.0 | 213.6 | 214.0 | 217.6 | 220.7 | 223.8 |
| 50°    | 227.8 | 221.6  | 216.7 | 208.3 | 203.4 | 200.8 | 201.2 | 203.4 | 206.1 | 210.5 | 214.5 |
| 52.5°  | 210.5 | 206.1  | 201.6 | 194.1 | 189.7 | 187.9 | 189.2 | 191.0 | 195.9 | 199.0 | 203.9 |
| 55°    | 193.7 | 189.7  | 186.1 | 180.4 | 176.8 | 175.5 | 176.4 | 179.0 | 183.0 | 188.3 | 194.1 |
| 57.5°  | 178.2 | 173.7  | 170.2 | 166.2 | 162.2 | 162.6 | 163.1 | 166.6 | 171.5 | 176.4 | 183.0 |
| 60°    | 160.9 | 158.2  | 155.1 | 150.2 | 148.5 | 148.5 | 149.8 | 153.8 | 158.2 | 166.2 | 171.9 |
| 62.5°  | 145.4 | 141.8  | 139.6 | 136.5 | 133.8 | 134.3 | 137.4 | 140.9 | 146.2 | 152.9 | 160.4 |
| 65°    | 129.4 | 125.4  | 123.6 | 121.0 | 120.1 | 120.5 | 122.8 | 128.1 | 133.8 | 139.6 | 146.7 |
| 67.5°  | 111.7 | 110.3  | 108.6 | 105.9 | 106.8 | 107.2 | 109.5 | 113.9 | 120.1 | 125.9 | 133.8 |
| 70°    | 96.6  | 93.9   | 93.5  | 91.3  | 91.3  | 92.6  | 97.1  | 100.2 | 105.9 | 112.1 | 120.5 |
| 72.5°  | 80.7  | 78.4   | 78.4  | 76.7  | 78.0  | 79.3  | 81.5  | 86.0  | 91.3  | 97.5  | 104.6 |
| 75°    | 64.3  | 63.4   | 64.3  | 63.4  | 63.4  | 65.6  | 68.2  | 71.8  | 77.6  | 84.2  | 90.0  |
| 77.5°  | 49.6  | 49.6   | 49.2  | 50.5  | 50.5  | 51.8  | 55.4  | 58.9  | 63.4  | 68.7  | 74.9  |
| 80°    | 36.3  | 36.3   | 36.3  | 37.7  | 39.0  | 39.0  | 41.2  | 45.6  | 49.6  | 53.2  | 58.9  |
| 82.5°  | 24.8  | 24.8   | 24.8  | 25.7  | 27.5  | 27.5  | 30.1  | 32.8  | 37.2  | 40.3  | 43.0  |
| 85°    | 15.1  | 15.1   | 14.6  | 15.5  | 16.0  | 17.3  | 19.5  | 21.3  | 23.5  | 26.1  | 28.8  |
| 87.5°  | 6.6   | 6.6    | 7.1   | 7.5   | 8.0   | 8.9   | 9.7   | 10.6  | 12.9  | 13.7  | 15.1  |
| 90°    | 12.1  | 13.3   | 14.1  | 15.8  | 17.5  | 19.2  | 20.9  | 22.2  | 23.4  | 24.7  | 26.0  |
| 92.5°  | 12.6  | 12.4   | 13.2  | 14.9  | 16.6  | 18.3  | 20.0  | 21.3  | 22.5  | 23.8  | 25.1  |
| 95°    | 23.6  | 20.0   | 20.1  | 20.3  | 20.5  | 20.7  | 20.9  | 22.2  | 23.4  | 24.7  | 26.0  |
| 97.5°  | 118.4 | 120.7  | 109.6 | 87.4  | 65.3  | 43.1  | 20.9  | 22.0  | 23.0  | 24.1  | 25.2  |
| 100°   | 171.0 | 172.9  | 158.3 | 129.2 | 100.1 | 70.9  | 41.8  | 38.2  | 34.6  | 31.1  | 27.5  |
| 102.5° | 228.7 | 230.0  | 231.3 | 233.8 | 236.3 | 238.9 | 241.4 | 193.9 | 146.4 | 98.9  | 51.4  |
| 105°   | 291.1 | 291.7  | 292.2 | 293.3 | 294.4 | 295.4 | 296.5 | 298.4 | 300.3 | 302.2 | 304.1 |
| 107.5° | 350.3 | 350.6  | 351.3 | 352.8 | 354.3 | 355.8 | 357.3 | 358.3 | 359.4 | 360.4 | 361.5 |
| 110°   | 413.1 | 413.4  | 414.0 | 415.3 | 416.6 | 417.8 | 419.1 | 419.5 | 419.9 | 420.4 | 420.8 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 476.4  | 477.0  | 477.2  | 477.6  | 478.1  | 478.5  | 478.9  | 478.7  | 478.5  | 478.3  | 478.1  |
| 115°   | 536.6  | 536.9  | 536.8  | 536.6  | 536.3  | 536.1  | 535.9  | 536.3  | 536.7  | 537.2  | 537.6  |
| 117.5° | 593.5  | 593.9  | 594.2  | 594.9  | 595.5  | 596.2  | 596.8  | 596.6  | 596.4  | 596.1  | 595.9  |
| 120°   | 650.5  | 650.9  | 650.8  | 650.6  | 650.4  | 650.2  | 650.0  | 650.4  | 650.8  | 651.3  | 651.7  |
| 122.5° | 702.0  | 702.2  | 702.4  | 702.8  | 703.3  | 703.7  | 704.1  | 704.3  | 704.5  | 704.8  | 705.0  |
| 125°   | 754.1  | 754.5  | 754.3  | 753.9  | 753.4  | 753.0  | 752.6  | 753.2  | 753.9  | 754.5  | 755.2  |
| 127.5° | 800.0  | 800.1  | 800.6  | 801.7  | 802.8  | 803.8  | 804.9  | 804.7  | 804.5  | 804.2  | 804.0  |
| 130°   | 846.6  | 846.7  | 847.0  | 847.6  | 848.3  | 848.9  | 849.5  | 849.7  | 849.9  | 850.2  | 850.4  |
| 132.5° | 890.2  | 890.4  | 890.8  | 891.7  | 892.5  | 893.4  | 894.2  | 894.4  | 894.6  | 894.8  | 895.0  |
| 135°   | 930.4  | 930.3  | 930.7  | 931.6  | 932.4  | 933.3  | 934.1  | 934.5  | 934.9  | 935.4  | 935.8  |
| 137.5° | 969.3  | 969.3  | 969.8  | 970.9  | 971.9  | 973.0  | 974.0  | 974.4  | 974.8  | 975.3  | 975.7  |
| 140°   | 1008.0 | 1008.2 | 1008.4 | 1008.8 | 1009.3 | 1009.7 | 1010.1 | 1010.7 | 1011.4 | 1012.0 | 1012.7 |
| 142.5° | 1043.0 | 1043.4 | 1043.5 | 1043.7 | 1043.9 | 1044.1 | 1044.3 | 1044.7 | 1045.1 | 1045.6 | 1046.0 |
| 145°   | 1076.3 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.8 | 1077.0 | 1077.3 | 1077.5 |
| 147.5° | 1105.5 | 1106.1 | 1106.0 | 1105.8 | 1105.6 | 1105.4 | 1105.2 | 1105.4 | 1105.6 | 1105.8 | 1106.0 |
| 150°   | 1133.3 | 1133.7 | 1133.6 | 1133.4 | 1133.1 | 1132.9 | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.7 |
| 152.5° | 1157.1 | 1157.4 | 1157.2 | 1156.8 | 1156.3 | 1155.9 | 1155.5 | 1155.9 | 1156.3 | 1156.8 | 1157.2 |
| 155°   | 1178.2 | 1178.3 | 1178.0 | 1177.4 | 1176.7 | 1176.1 | 1175.5 | 1176.3 | 1177.2 | 1178.0 | 1178.9 |
| 157.5° | 1197.3 | 1197.3 | 1196.9 | 1196.0 | 1195.2 | 1194.3 | 1193.5 | 1194.6 | 1195.6 | 1196.7 | 1197.8 |
| 160°   | 1211.9 | 1211.6 | 1211.5 | 1211.3 | 1211.0 | 1210.8 | 1210.6 | 1211.9 | 1213.1 | 1214.4 | 1215.7 |
| 162.5° | 1226.2 | 1225.8 | 1225.7 | 1225.5 | 1225.3 | 1225.1 | 1224.9 | 1226.2 | 1227.4 | 1228.7 | 1230.0 |
| 165°   | 1237.7 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1238.9 | 1240.6 | 1242.3 | 1244.0 |
| 167.5° | 1248.2 | 1247.7 | 1247.6 | 1247.4 | 1247.1 | 1246.9 | 1246.7 | 1248.6 | 1250.5 | 1252.4 | 1254.3 |
| 170°   | 1255.9 | 1255.3 | 1255.4 | 1255.6 | 1255.8 | 1256.0 | 1256.2 | 1257.9 | 1259.6 | 1261.3 | 1263.0 |
| 172.5° | 1261.6 | 1261.0 | 1261.1 | 1261.3 | 1261.5 | 1261.7 | 1261.9 | 1263.6 | 1265.3 | 1267.0 | 1268.7 |
| 175°   | 1265.4 | 1264.8 | 1264.9 | 1265.1 | 1265.3 | 1265.5 | 1265.7 | 1267.6 | 1269.5 | 1271.4 | 1273.3 |
| 177.5° | 1267.4 | 1266.7 | 1266.9 | 1267.3 | 1267.8 | 1268.2 | 1268.6 | 1270.3 | 1272.0 | 1273.7 | 1275.4 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 534.9  | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9  |
| 2.5°   | 504.8  | 504.3 | 502.1 | 503.0 | 500.3 | 501.2 | 502.5 | 503.0 | 504.8 | 503.4 | 503.0  |
| 5°     | 473.7  | 472.9 | 471.5 | 470.2 | 469.7 | 471.5 | 468.4 | 469.3 | 470.2 | 471.5 | 473.3  |
| 7.5°   | 448.5  | 448.0 | 446.7 | 444.5 | 443.6 | 442.7 | 443.2 | 446.3 | 445.8 | 445.4 | 448.5  |
| 10°    | 425.4  | 425.9 | 423.2 | 422.8 | 420.1 | 419.7 | 420.1 | 421.0 | 422.3 | 424.1 | 424.5  |
| 12.5°  | 401.5  | 407.3 | 402.4 | 400.6 | 396.6 | 398.8 | 399.7 | 395.7 | 398.0 | 399.3 | 405.9  |
| 15°    | 386.4  | 383.8 | 380.7 | 380.7 | 378.9 | 378.0 | 375.8 | 378.9 | 380.7 | 383.3 | 382.4  |
| 17.5°  | 365.6  | 361.2 | 359.4 | 357.6 | 358.1 | 359.8 | 355.0 | 362.1 | 362.1 | 363.4 | 361.2  |
| 20°    | 347.4  | 343.9 | 341.7 | 340.8 | 339.5 | 338.6 | 338.1 | 339.9 | 342.6 | 343.4 | 345.7  |
| 22.5°  | 328.4  | 328.4 | 324.8 | 323.5 | 322.6 | 321.3 | 323.5 | 322.2 | 323.9 | 325.7 | 329.3  |
| 25°    | 312.4  | 312.4 | 311.1 | 309.3 | 308.0 | 307.1 | 308.4 | 308.0 | 309.3 | 311.5 | 312.4  |
| 27.5°  | 299.6  | 298.2 | 297.8 | 297.4 | 296.9 | 297.4 | 296.9 | 298.2 | 299.6 | 300.0 | 299.1  |
| 30°    | 288.5  | 287.2 | 287.6 | 287.6 | 288.1 | 287.6 | 287.2 | 288.5 | 288.9 | 288.1 | 288.5  |
| 32.5°  | 278.3  | 278.3 | 279.2 | 279.6 | 279.6 | 280.1 | 280.5 | 279.6 | 280.1 | 278.7 | 279.2  |
| 35°    | 269.9  | 270.8 | 271.7 | 272.1 | 272.5 | 272.1 | 273.0 | 272.5 | 271.7 | 270.8 | 270.3  |
| 37.5°  | 261.5  | 262.4 | 264.1 | 264.6 | 265.9 | 266.3 | 265.5 | 265.5 | 265.0 | 263.2 | 262.4  |
| 40°    | 252.6  | 253.5 | 255.7 | 257.0 | 257.9 | 259.2 | 258.4 | 258.4 | 256.6 | 254.8 | 253.5  |
| 42.5°  | 244.2  | 246.0 | 248.2 | 249.5 | 251.3 | 251.3 | 251.3 | 250.4 | 248.2 | 246.4 | 245.1  |
| 45°    | 235.8  | 236.2 | 239.3 | 241.5 | 243.3 | 243.3 | 243.3 | 242.0 | 240.6 | 237.1 | 235.3  |
| 47.5°  | 226.5  | 227.8 | 231.3 | 233.5 | 235.3 | 235.8 | 235.8 | 234.4 | 231.8 | 228.7 | 226.5  |
| 50°    | 216.3  | 218.5 | 222.5 | 225.6 | 227.8 | 228.7 | 227.3 | 226.5 | 223.4 | 219.8 | 217.1  |
| 52.5°  | 206.5  | 209.2 | 214.0 | 216.7 | 219.8 | 220.3 | 219.8 | 218.5 | 214.9 | 210.1 | 207.8  |
| 55°    | 196.8  | 199.0 | 204.3 | 208.7 | 211.4 | 212.3 | 211.4 | 209.2 | 204.7 | 199.9 | 197.6  |
| 57.5°  | 186.1  | 189.2 | 195.0 | 199.4 | 202.5 | 203.0 | 202.1 | 199.9 | 196.3 | 190.1 | 187.0  |
| 60°    | 175.0  | 179.0 | 184.8 | 189.2 | 193.2 | 193.7 | 192.8 | 189.7 | 185.2 | 179.0 | 176.4  |
| 62.5°  | 164.0  | 167.1 | 173.7 | 178.6 | 181.7 | 183.9 | 182.1 | 179.0 | 174.6 | 168.4 | 164.4  |
| 65°    | 151.1  | 155.5 | 161.3 | 165.7 | 169.3 | 169.7 | 168.8 | 166.2 | 161.3 | 154.7 | 151.6  |
| 67.5°  | 138.7  | 141.8 | 147.6 | 153.3 | 154.7 | 156.0 | 154.7 | 152.0 | 148.0 | 142.3 | 137.8  |
| 70°    | 123.6  | 126.3 | 133.4 | 137.4 | 139.2 | 140.5 | 139.6 | 136.9 | 133.4 | 128.1 | 124.5  |
| 72.5°  | 108.6  | 110.8 | 117.4 | 120.5 | 124.1 | 123.6 | 123.2 | 121.4 | 116.6 | 113.0 | 110.8  |
| 75°    | 92.6   | 95.3  | 99.7  | 103.7 | 105.0 | 105.0 | 105.0 | 103.7 | 100.6 | 94.8  | 92.6   |
| 77.5°  | 78.0   | 79.3  | 82.9  | 85.1  | 86.4  | 86.9  | 86.4  | 84.2  | 82.4  | 78.4  | 77.1   |
| 80°    | 59.8   | 63.4  | 66.0  | 66.5  | 68.2  | 68.2  | 68.2  | 67.4  | 65.6  | 61.6  | 61.2   |
| 82.5°  | 45.2   | 46.1  | 48.7  | 50.1  | 51.0  | 50.5  | 50.5  | 48.7  | 48.3  | 46.1  | 45.2   |
| 85°    | 30.6   | 31.9  | 31.5  | 33.2  | 33.7  | 32.8  | 32.8  | 33.7  | 31.5  | 31.9  | 30.6   |
| 87.5°  | 16.8   | 16.8  | 17.7  | 17.3  | 19.1  | 19.1  | 18.2  | 18.6  | 17.7  | 17.3  | 16.8   |
| 90°    | 26.6   | 26.8  | 27.2  | 27.7  | 28.1  | 28.5  | 28.1  | 27.7  | 27.2  | 26.8  | 26.6   |
| 92.5°  | 25.7   | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  | 25.7   |
| 95°    | 26.6   | 26.7  | 26.9  | 27.2  | 27.4  | 27.6  | 27.4  | 27.2  | 26.9  | 26.7  | 26.6   |
| 97.5°  | 25.7   | 25.8  | 26.0  | 26.2  | 26.4  | 26.6  | 26.4  | 26.2  | 26.0  | 25.8  | 25.7   |
| 100°   | 25.7   | 25.8  | 26.0  | 26.2  | 26.4  | 26.6  | 26.4  | 26.2  | 26.0  | 25.8  | 25.7   |
| 102.5° | 27.6   | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6   |
| 105°   | 305.0  | 301.2 | 293.6 | 286.0 | 278.4 | 270.8 | 278.4 | 286.0 | 293.6 | 301.2 | 305.0  |
| 107.5° | 362.0  | 362.4 | 363.3 | 364.2 | 365.0 | 365.9 | 365.0 | 364.2 | 363.3 | 362.4 | 362.0  |
| 110°   | 421.0  | 421.3 | 421.9 | 422.6 | 423.2 | 423.8 | 423.2 | 422.6 | 421.9 | 421.3 | 421.0  |



TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 478.0  | 478.4  | 479.3  | 480.1  | 481.0  | 481.8  | 481.0  | 480.1  | 479.3  | 478.4  | 478.0  |
| 115°   | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  | 537.8  |
| 117.5° | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  | 595.8  |
| 120°   | 651.9  | 651.7  | 651.3  | 650.8  | 650.4  | 650.0  | 650.4  | 650.8  | 651.3  | 651.7  | 651.9  |
| 122.5° | 705.1  | 704.9  | 704.5  | 704.0  | 703.6  | 703.2  | 703.6  | 704.0  | 704.5  | 704.9  | 705.1  |
| 125°   | 755.5  | 755.6  | 755.8  | 756.0  | 756.2  | 756.4  | 756.2  | 756.0  | 755.8  | 755.6  | 755.5  |
| 127.5° | 803.9  | 803.8  | 803.6  | 803.4  | 803.2  | 803.0  | 803.2  | 803.4  | 803.6  | 803.8  | 803.9  |
| 130°   | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  | 850.5  |
| 132.5° | 895.1  | 895.0  | 894.8  | 894.6  | 894.4  | 894.2  | 894.4  | 894.6  | 894.8  | 895.0  | 895.1  |
| 135°   | 936.0  | 936.2  | 936.6  | 937.1  | 937.5  | 937.9  | 937.5  | 937.1  | 936.6  | 936.2  | 936.0  |
| 137.5° | 975.9  | 975.8  | 975.6  | 975.4  | 975.2  | 975.0  | 975.2  | 975.4  | 975.6  | 975.8  | 975.9  |
| 140°   | 1013.0 | 1013.1 | 1013.3 | 1013.5 | 1013.7 | 1013.9 | 1013.7 | 1013.5 | 1013.3 | 1013.1 | 1013.0 |
| 142.5° | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 | 1046.2 |
| 145°   | 1077.6 | 1077.8 | 1078.2 | 1078.7 | 1079.1 | 1079.5 | 1079.1 | 1078.7 | 1078.2 | 1077.8 | 1077.6 |
| 147.5° | 1106.1 | 1106.2 | 1106.4 | 1106.7 | 1106.9 | 1107.1 | 1106.9 | 1106.7 | 1106.4 | 1106.2 | 1106.1 |
| 150°   | 1132.7 | 1132.8 | 1133.0 | 1133.3 | 1133.5 | 1133.7 | 1133.5 | 1133.3 | 1133.0 | 1132.8 | 1132.7 |
| 152.5° | 1157.4 | 1157.3 | 1157.1 | 1156.9 | 1156.7 | 1156.5 | 1156.7 | 1156.9 | 1157.1 | 1157.3 | 1157.4 |
| 155°   | 1179.3 | 1179.0 | 1178.3 | 1177.7 | 1177.0 | 1176.4 | 1177.0 | 1177.7 | 1178.3 | 1179.0 | 1179.3 |
| 157.5° | 1198.3 | 1197.8 | 1196.7 | 1195.6 | 1194.6 | 1193.5 | 1194.6 | 1195.6 | 1196.7 | 1197.8 | 1198.3 |
| 160°   | 1216.3 | 1215.7 | 1214.4 | 1213.1 | 1211.9 | 1210.6 | 1211.9 | 1213.1 | 1214.4 | 1215.7 | 1216.3 |
| 162.5° | 1230.6 | 1229.9 | 1228.4 | 1226.9 | 1225.4 | 1223.9 | 1225.4 | 1226.9 | 1228.4 | 1229.9 | 1230.6 |
| 165°   | 1244.8 | 1243.9 | 1242.0 | 1240.1 | 1238.2 | 1236.3 | 1238.2 | 1240.1 | 1242.0 | 1243.9 | 1244.8 |
| 167.5° | 1255.3 | 1254.2 | 1252.1 | 1250.0 | 1247.9 | 1245.8 | 1247.9 | 1250.0 | 1252.1 | 1254.2 | 1255.3 |
| 170°   | 1263.8 | 1262.7 | 1260.6 | 1258.5 | 1256.4 | 1254.3 | 1256.4 | 1258.5 | 1260.6 | 1262.7 | 1263.8 |
| 172.5° | 1269.6 | 1268.4 | 1266.1 | 1263.8 | 1261.4 | 1259.1 | 1261.4 | 1263.8 | 1266.1 | 1268.4 | 1269.6 |
| 175°   | 1274.3 | 1273.0 | 1270.5 | 1268.0 | 1265.4 | 1262.9 | 1265.4 | 1268.0 | 1270.5 | 1273.0 | 1274.3 |
| 177.5° | 1276.2 | 1274.9 | 1272.4 | 1269.9 | 1267.3 | 1264.8 | 1267.3 | 1269.9 | 1272.4 | 1274.9 | 1276.2 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9 | 534.9  | 534.9 |
| 2.5°   | 503.0 | 505.6 | 503.0 | 504.8 | 505.6 | 507.9 | 508.7 | 512.7 | 514.1 | 517.2  | 517.2 |
| 5°     | 472.9 | 474.2 | 474.6 | 476.4 | 478.2 | 482.6 | 485.7 | 491.5 | 498.1 | 499.0  | 503.0 |
| 7.5°   | 448.5 | 450.7 | 454.2 | 452.9 | 456.0 | 462.7 | 466.6 | 473.7 | 480.4 | 483.9  | 488.8 |
| 10°    | 426.8 | 429.4 | 430.8 | 432.1 | 437.8 | 443.6 | 449.8 | 454.7 | 463.5 | 468.9  | 472.9 |
| 12.5°  | 409.0 | 406.8 | 409.5 | 414.4 | 421.0 | 424.5 | 433.0 | 440.5 | 447.1 | 452.9  | 456.5 |
| 15°    | 386.0 | 387.8 | 390.4 | 398.8 | 400.6 | 409.5 | 412.6 | 421.0 | 433.4 | 438.7  | 443.2 |
| 17.5°  | 363.8 | 369.6 | 374.9 | 378.0 | 383.3 | 390.4 | 399.3 | 408.6 | 416.6 | 422.8  | 428.1 |
| 20°    | 346.1 | 351.9 | 355.0 | 357.2 | 362.5 | 372.3 | 380.7 | 392.2 | 402.4 | 407.3  | 414.4 |
| 22.5°  | 331.9 | 331.9 | 336.4 | 343.0 | 346.1 | 355.4 | 362.5 | 374.9 | 386.0 | 392.2  | 398.8 |
| 25°    | 314.2 | 316.9 | 320.4 | 326.2 | 330.6 | 338.1 | 348.3 | 359.0 | 370.9 | 376.2  | 384.7 |
| 27.5°  | 299.6 | 302.7 | 307.6 | 308.9 | 313.3 | 320.0 | 330.6 | 342.1 | 354.5 | 360.3  | 367.4 |
| 30°    | 288.5 | 290.3 | 292.0 | 294.7 | 298.7 | 304.5 | 313.3 | 323.5 | 338.6 | 343.0  | 351.9 |
| 32.5°  | 278.7 | 279.6 | 280.5 | 282.7 | 285.0 | 290.7 | 297.8 | 308.9 | 321.3 | 327.9  | 335.9 |
| 35°    | 269.9 | 269.0 | 269.4 | 270.8 | 273.0 | 275.2 | 282.7 | 292.0 | 303.6 | 311.5  | 317.7 |
| 37.5°  | 261.5 | 259.7 | 259.2 | 259.2 | 260.1 | 262.8 | 268.6 | 276.5 | 288.9 | 295.6  | 301.8 |
| 40°    | 252.2 | 250.4 | 249.5 | 249.1 | 248.6 | 250.4 | 254.8 | 262.8 | 272.5 | 278.7  | 285.8 |
| 42.5°  | 243.3 | 241.5 | 239.3 | 238.9 | 238.0 | 238.9 | 242.0 | 249.5 | 257.9 | 264.1  | 269.9 |
| 45°    | 234.4 | 231.3 | 228.7 | 226.9 | 227.3 | 226.0 | 228.2 | 234.0 | 243.7 | 247.7  | 253.5 |
| 47.5°  | 224.7 | 221.1 | 217.6 | 215.8 | 214.0 | 214.9 | 215.8 | 220.7 | 229.1 | 233.1  | 238.9 |
| 50°    | 215.4 | 210.5 | 206.5 | 204.3 | 203.0 | 202.1 | 203.0 | 207.8 | 214.0 | 217.6  | 222.5 |
| 52.5°  | 204.7 | 199.9 | 195.9 | 192.3 | 190.6 | 189.2 | 189.7 | 194.1 | 199.9 | 203.4  | 208.3 |
| 55°    | 195.0 | 188.8 | 183.5 | 179.0 | 177.7 | 177.3 | 176.8 | 179.9 | 184.8 | 188.3  | 192.3 |
| 57.5°  | 183.9 | 177.7 | 171.9 | 166.6 | 164.0 | 163.5 | 163.5 | 164.4 | 170.6 | 173.3  | 175.5 |
| 60°    | 172.8 | 166.2 | 160.0 | 155.1 | 151.1 | 149.8 | 149.3 | 151.1 | 154.2 | 156.9  | 160.0 |
| 62.5°  | 160.4 | 153.8 | 146.2 | 141.8 | 137.8 | 134.3 | 135.6 | 136.0 | 140.5 | 141.8  | 144.5 |
| 65°    | 148.5 | 140.9 | 134.7 | 127.6 | 123.2 | 121.0 | 120.1 | 121.0 | 124.5 | 125.0  | 126.7 |
| 67.5°  | 134.7 | 127.6 | 120.1 | 115.2 | 111.2 | 107.2 | 106.4 | 106.4 | 108.1 | 109.5  | 111.7 |
| 70°    | 121.4 | 114.3 | 105.9 | 100.6 | 96.6  | 93.1  | 91.7  | 91.3  | 92.6  | 93.5   | 95.7  |
| 72.5°  | 105.9 | 98.8  | 92.6  | 86.9  | 82.0  | 79.3  | 78.0  | 77.1  | 78.4  | 79.3   | 79.8  |
| 75°    | 89.5  | 83.8  | 77.6  | 71.8  | 68.7  | 66.0  | 64.3  | 62.9  | 63.8  | 63.8   | 63.8  |
| 77.5°  | 74.0  | 68.2  | 63.4  | 59.4  | 55.4  | 52.3  | 51.0  | 49.6  | 50.1  | 50.1   | 51.0  |
| 80°    | 57.6  | 53.6  | 49.6  | 46.1  | 42.5  | 39.9  | 39.0  | 37.7  | 36.8  | 36.3   | 36.3  |
| 82.5°  | 42.5  | 39.4  | 35.9  | 32.8  | 31.0  | 28.4  | 27.5  | 25.7  | 25.7  | 25.3   | 25.3  |
| 85°    | 28.4  | 26.6  | 23.0  | 20.8  | 19.5  | 18.2  | 17.3  | 16.4  | 15.1  | 15.1   | 14.6  |
| 87.5°  | 15.1  | 14.2  | 13.3  | 10.6  | 10.6  | 9.3   | 8.9   | 8.4   | 7.1   | 7.5    | 7.5   |
| 90°    | 26.0  | 24.7  | 23.4  | 22.2  | 20.9  | 19.2  | 17.5  | 15.8  | 14.1  | 13.3   | 12.1  |
| 92.5°  | 25.1  | 23.8  | 22.5  | 21.3  | 20.0  | 18.3  | 16.6  | 14.9  | 13.2  | 12.4   | 12.6  |
| 95°    | 26.0  | 24.7  | 23.4  | 22.2  | 20.9  | 20.7  | 20.5  | 20.3  | 20.1  | 20.0   | 23.6  |
| 97.5°  | 25.2  | 24.1  | 23.0  | 22.0  | 20.9  | 43.1  | 65.3  | 87.4  | 109.6 | 120.7  | 118.4 |
| 100°   | 27.5  | 31.1  | 34.6  | 38.2  | 41.8  | 70.9  | 100.1 | 129.2 | 158.3 | 172.9  | 171.0 |
| 102.5° | 51.4  | 98.9  | 146.4 | 193.9 | 241.4 | 238.9 | 236.3 | 233.8 | 231.3 | 230.0  | 228.7 |
| 105°   | 304.1 | 302.2 | 300.3 | 298.4 | 296.5 | 295.4 | 294.4 | 293.3 | 292.2 | 291.7  | 291.1 |
| 107.5° | 361.5 | 360.4 | 359.4 | 358.3 | 357.3 | 355.8 | 354.3 | 352.8 | 351.3 | 350.6  | 350.3 |
| 110°   | 420.8 | 420.4 | 419.9 | 419.5 | 419.1 | 417.8 | 416.6 | 415.3 | 414.0 | 413.4  | 413.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 478.1  | 478.3  | 478.5  | 478.7  | 478.9  | 478.5  | 478.1  | 477.6  | 477.2  | 477.0  | 476.4  |
| 115°   | 537.6  | 537.2  | 536.7  | 536.3  | 535.9  | 536.1  | 536.3  | 536.6  | 536.8  | 536.9  | 536.6  |
| 117.5° | 595.9  | 596.1  | 596.4  | 596.6  | 596.8  | 596.2  | 595.5  | 594.9  | 594.2  | 593.9  | 593.5  |
| 120°   | 651.7  | 651.3  | 650.8  | 650.4  | 650.0  | 650.2  | 650.4  | 650.6  | 650.8  | 650.9  | 650.5  |
| 122.5° | 705.0  | 704.8  | 704.5  | 704.3  | 704.1  | 703.7  | 703.3  | 702.8  | 702.4  | 702.2  | 702.0  |
| 125°   | 755.2  | 754.5  | 753.9  | 753.2  | 752.6  | 753.0  | 753.4  | 753.9  | 754.3  | 754.5  | 754.1  |
| 127.5° | 804.0  | 804.2  | 804.5  | 804.7  | 804.9  | 803.8  | 802.8  | 801.7  | 800.6  | 800.1  | 800.0  |
| 130°   | 850.4  | 850.2  | 849.9  | 849.7  | 849.5  | 848.9  | 848.3  | 847.6  | 847.0  | 846.7  | 846.6  |
| 132.5° | 895.0  | 894.8  | 894.6  | 894.4  | 894.2  | 893.4  | 892.5  | 891.7  | 890.8  | 890.4  | 890.2  |
| 135°   | 935.8  | 935.4  | 934.9  | 934.5  | 934.1  | 933.3  | 932.4  | 931.6  | 930.7  | 930.3  | 930.4  |
| 137.5° | 975.7  | 975.3  | 974.8  | 974.4  | 974.0  | 973.0  | 971.9  | 970.9  | 969.8  | 969.3  | 969.3  |
| 140°   | 1012.7 | 1012.0 | 1011.4 | 1010.7 | 1010.1 | 1009.7 | 1009.3 | 1008.8 | 1008.4 | 1008.2 | 1008.0 |
| 142.5° | 1046.0 | 1045.6 | 1045.1 | 1044.7 | 1044.3 | 1044.1 | 1043.9 | 1043.7 | 1043.5 | 1043.4 | 1043.0 |
| 145°   | 1077.5 | 1077.3 | 1077.0 | 1076.8 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.3 |
| 147.5° | 1106.0 | 1105.8 | 1105.6 | 1105.4 | 1105.2 | 1105.4 | 1105.6 | 1105.8 | 1106.0 | 1106.1 | 1105.5 |
| 150°   | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.7 | 1132.9 | 1133.1 | 1133.4 | 1133.6 | 1133.7 | 1133.3 |
| 152.5° | 1157.2 | 1156.8 | 1156.3 | 1155.9 | 1155.5 | 1155.9 | 1156.3 | 1156.8 | 1157.2 | 1157.4 | 1157.1 |
| 155°   | 1178.9 | 1178.0 | 1177.2 | 1176.3 | 1175.5 | 1176.1 | 1176.7 | 1177.4 | 1178.0 | 1178.3 | 1178.2 |
| 157.5° | 1197.8 | 1196.7 | 1195.6 | 1194.6 | 1193.5 | 1194.3 | 1195.2 | 1196.0 | 1196.9 | 1197.3 | 1197.3 |
| 160°   | 1215.7 | 1214.4 | 1213.1 | 1211.9 | 1210.6 | 1210.8 | 1211.0 | 1211.3 | 1211.5 | 1211.6 | 1211.9 |
| 162.5° | 1230.0 | 1228.7 | 1227.4 | 1226.2 | 1224.9 | 1225.1 | 1225.3 | 1225.5 | 1225.7 | 1225.8 | 1226.2 |
| 165°   | 1244.0 | 1242.3 | 1240.6 | 1238.9 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.2 | 1237.7 |
| 167.5° | 1254.3 | 1252.4 | 1250.5 | 1248.6 | 1246.7 | 1246.9 | 1247.1 | 1247.4 | 1247.6 | 1247.7 | 1248.2 |
| 170°   | 1263.0 | 1261.3 | 1259.6 | 1257.9 | 1256.2 | 1256.0 | 1255.8 | 1255.6 | 1255.4 | 1255.3 | 1255.9 |
| 172.5° | 1268.7 | 1267.0 | 1265.3 | 1263.6 | 1261.9 | 1261.7 | 1261.5 | 1261.3 | 1261.1 | 1261.0 | 1261.6 |
| 175°   | 1273.3 | 1271.4 | 1269.5 | 1267.6 | 1265.7 | 1265.5 | 1265.3 | 1265.1 | 1264.9 | 1264.8 | 1265.4 |
| 177.5° | 1275.4 | 1273.7 | 1272.0 | 1270.3 | 1268.6 | 1268.2 | 1267.8 | 1267.3 | 1266.9 | 1266.7 | 1267.4 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 534.9 | 534.9 | 534.9 | 534.9 |
| 2.5°   | 520.3 | 524.7 | 528.7 | 534.9 |
| 5°     | 508.7 | 515.0 | 523.4 | 532.7 |
| 7.5°   | 495.5 | 505.2 | 516.3 | 529.1 |
| 10°    | 483.0 | 494.1 | 508.3 | 523.8 |
| 12.5°  | 470.2 | 483.5 | 499.0 | 515.8 |
| 15°    | 455.6 | 468.9 | 486.1 | 508.7 |
| 17.5°  | 442.3 | 458.2 | 476.8 | 500.8 |
| 20°    | 426.8 | 441.8 | 462.2 | 489.7 |
| 22.5°  | 413.0 | 430.3 | 452.9 | 476.8 |
| 25°    | 398.0 | 413.0 | 435.6 | 464.4 |
| 27.5°  | 382.9 | 401.5 | 423.2 | 451.1 |
| 30°    | 368.3 | 383.8 | 407.3 | 436.5 |
| 32.5°  | 352.3 | 370.9 | 392.6 | 420.1 |
| 35°    | 335.0 | 352.8 | 373.1 | 402.8 |
| 37.5°  | 319.5 | 336.8 | 357.6 | 383.8 |
| 40°    | 302.2 | 320.4 | 339.5 | 365.6 |
| 42.5°  | 285.4 | 301.8 | 320.8 | 344.8 |
| 45°    | 269.0 | 283.2 | 300.5 | 321.3 |
| 47.5°  | 252.2 | 264.1 | 280.1 | 298.7 |
| 50°    | 234.0 | 246.8 | 258.8 | 274.3 |
| 52.5°  | 217.1 | 228.2 | 238.0 | 250.8 |
| 55°    | 200.8 | 208.3 | 216.3 | 226.0 |
| 57.5°  | 183.5 | 189.2 | 195.0 | 205.2 |
| 60°    | 166.2 | 171.5 | 174.6 | 181.3 |
| 62.5°  | 149.3 | 151.6 | 155.5 | 159.5 |
| 65°    | 130.7 | 133.8 | 136.0 | 140.9 |
| 67.5°  | 113.9 | 115.2 | 117.4 | 120.5 |
| 70°    | 96.2  | 99.3  | 100.2 | 102.4 |
| 72.5°  | 81.1  | 82.4  | 83.3  | 83.8  |
| 75°    | 64.3  | 65.6  | 66.5  | 69.1  |
| 77.5°  | 50.5  | 50.1  | 51.8  | 52.3  |
| 80°    | 37.2  | 35.9  | 36.3  | 38.1  |
| 82.5°  | 24.4  | 24.8  | 24.4  | 24.4  |
| 85°    | 15.1  | 14.6  | 13.7  | 14.2  |
| 87.5°  | 6.6   | 6.6   | 6.2   | 6.2   |
| 90°    | 9.8   | 7.5   | 5.2   | 2.9   |
| 92.5°  | 13.0  | 13.5  | 13.9  | 14.3  |
| 95°    | 30.8  | 37.9  | 45.1  | 52.3  |
| 97.5°  | 113.7 | 109.1 | 104.4 | 99.8  |
| 100°   | 167.2 | 163.4 | 159.6 | 155.8 |
| 102.5° | 226.2 | 223.7 | 221.1 | 218.6 |
| 105°   | 289.8 | 288.5 | 287.3 | 286.0 |
| 107.5° | 349.7 | 349.0 | 348.4 | 347.8 |
| 110°   | 412.4 | 411.8 | 411.1 | 410.5 |

TEST NUMBER: P1001116

CATALOG NUMBER: SA4XXDIP-B350D1035UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 475.1  | 473.8  | 472.6  | 471.3  |
| 115°   | 535.9  | 535.3  | 534.6  | 534.0  |
| 117.5° | 592.6  | 591.8  | 590.9  | 590.1  |
| 120°   | 649.6  | 648.8  | 647.9  | 647.1  |
| 122.5° | 701.6  | 701.1  | 700.7  | 700.3  |
| 125°   | 753.2  | 752.4  | 751.5  | 750.7  |
| 127.5° | 799.8  | 799.6  | 799.4  | 799.2  |
| 130°   | 846.4  | 846.1  | 845.9  | 845.7  |
| 132.5° | 889.8  | 889.3  | 888.9  | 888.5  |
| 135°   | 930.6  | 930.9  | 931.1  | 931.3  |
| 137.5° | 969.3  | 969.3  | 969.3  | 969.3  |
| 140°   | 1007.6 | 1007.1 | 1006.7 | 1006.3 |
| 142.5° | 1042.1 | 1041.3 | 1040.4 | 1039.6 |
| 145°   | 1075.7 | 1075.0 | 1074.4 | 1073.8 |
| 147.5° | 1104.2 | 1102.9 | 1101.7 | 1100.4 |
| 150°   | 1132.4 | 1131.6 | 1130.7 | 1129.9 |
| 152.5° | 1156.5 | 1155.8 | 1155.2 | 1154.6 |
| 155°   | 1178.0 | 1177.8 | 1177.6 | 1177.4 |
| 157.5° | 1197.3 | 1197.3 | 1197.3 | 1197.3 |
| 160°   | 1212.5 | 1213.2 | 1213.8 | 1214.4 |
| 162.5° | 1227.1 | 1227.9 | 1228.8 | 1229.6 |
| 165°   | 1238.8 | 1239.9 | 1240.9 | 1242.0 |
| 167.5° | 1249.3 | 1250.3 | 1251.4 | 1252.4 |
| 170°   | 1257.2 | 1258.5 | 1259.7 | 1261.0 |
| 172.5° | 1262.9 | 1264.2 | 1265.4 | 1266.7 |
| 175°   | 1266.7 | 1268.0 | 1269.2 | 1270.5 |
| 177.5° | 1268.9 | 1270.4 | 1271.9 | 1273.4 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

(END OF REPORT)