

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332501-930

Luminaire Tested: **SA4XXDIP-C350D590U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332501-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

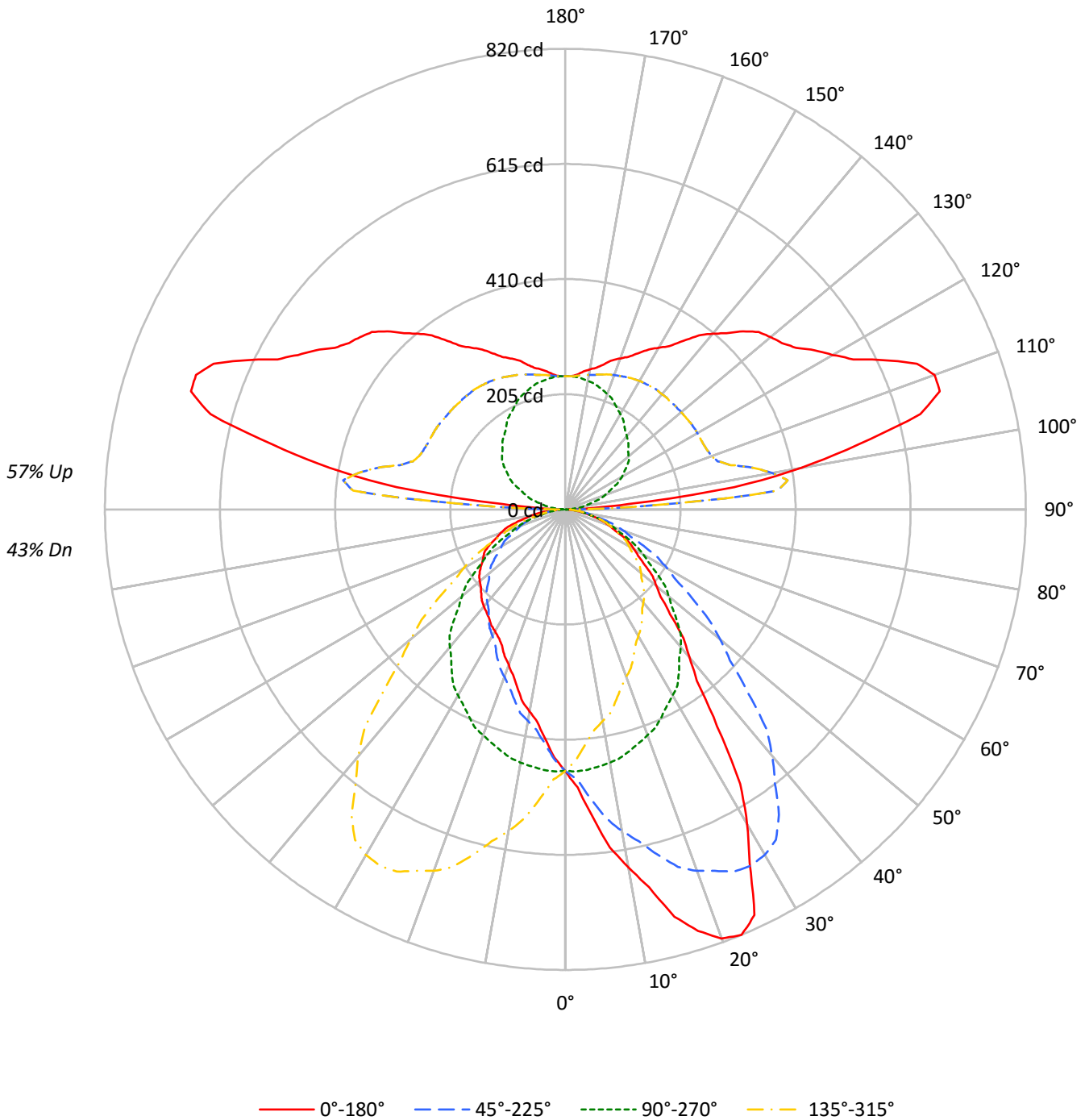
Lumens per Lamp: N/A  
Luminaire Lumens: 3008.2 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 25.6  
Input Voltage (V): 120  
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: 25 FT



TEST NUMBER: P332501-930  
CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P332501-930

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |
| RC  | 80  |     |     |     |    | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |    |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 49 | 49 | 49 | 43 |    |    |    | 43 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 67 | 65 | 56 | 55 | 53 | 44 | 43 | 42 | 36 |    |    |    | 36 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 64 | 61 | 58 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | 31 |    |    |    | 31 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 32 | 31 | 26 |    |    |    | 26 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 36 | 33 | 31 | 29 | 27 | 23 |    |    |    | 23 |
| 5   | 67  | 56  | 48  | 42  | 61 | 52 | 45 | 40 | 43 | 38 | 34 | 35 | 32 | 29 | 28 | 25 | 23 | 20 |    |    |    | 20 |
| 6   | 62  | 50  | 42  | 37  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |    |    |    | 18 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 16 |    |    |    | 16 |
| 8   | 53  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 21 | 19 | 16 | 14 |    |    |    | 14 |
| 9   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |    |    |    | 13 |
| 10  | 46  | 34  | 27  | 23  | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 18 | 16 | 13 | 11 |    |    |    | 11 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 3760 | 3760 | 3760 | 3760 |
| 5°  | 4428 | 3770 | 3327 | 3770 |
| 10° | 5302 | 3754 | 2995 | 3754 |
| 15° | 6273 | 3716 | 2751 | 3716 |
| 20° | 6985 | 3677 | 2533 | 3677 |
| 25° | 7098 | 3619 | 2382 | 3619 |
| 30° | 6040 | 3566 | 2335 | 3566 |
| 35° | 4644 | 3476 | 2335 | 3476 |
| 40° | 3620 | 3371 | 2380 | 3371 |
| 45° | 3017 | 3214 | 2419 | 3214 |
| 50° | 2656 | 3022 | 2501 | 3022 |
| 55° | 2434 | 2792 | 2601 | 2792 |
| 60° | 2280 | 2585 | 2722 | 2585 |
| 65° | 2122 | 2355 | 2823 | 2355 |
| 70° | 1940 | 2127 | 2887 | 2127 |
| 75° | 1734 | 1871 | 2854 | 1871 |
| 80° | 1450 | 1534 | 2762 | 1534 |
| 85° | 1074 | 1112 | 2640 | 1112 |



TEST NUMBER: P332501-930

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.4   | 1.5       |
| 10°-20°   | 139.9  | 4.6       |
| 20°-30°   | 221.8  | 7.4       |
| 30°-40°   | 246.8  | 8.2       |
| 40°-50°   | 224.7  | 7.5       |
| 50°-60°   | 183.6  | 6.1       |
| 60°-70°   | 131.1  | 4.4       |
| 70°-80°   | 72.2   | 2.4       |
| 80°-90°   | 21.0   | 0.7       |
| 90°-100°  | 171.0  | 5.7       |
| 100°-110° | 355.9  | 11.8      |
| 110°-120° | 318.7  | 10.6      |
| 120°-130° | 268.1  | 8.9       |
| 130°-140° | 223.6  | 7.4       |
| 140°-150° | 170.8  | 5.7       |
| 150°-160° | 120.0  | 4.0       |
| 160°-170° | 70.6   | 2.3       |
| 170°-180° | 23.0   | 0.8       |
| 0°-30°    | 407.0  | 13.5      |
| 0°-40°    | 653.9  | 21.7      |
| 0°-60°    | 1062.2 | 35.3      |
| 0°-90°    | 1286.5 | 42.8      |
| 90°-120°  | 845.6  | 28.1      |
| 90°-150°  | 1508.1 | 50.1      |
| 90°-180°  | 1722.0 | 57.2      |
| 0°-180°   | 3008.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 466 | 466 | 466  | 466  | 466  |      |
| 5°   | 546 | 465 | 411  | 465  | 546  | 56   |
| 15°  | 751 | 445 | 329  | 445  | 751  | 212  |
| 25°  | 797 | 406 | 267  | 406  | 797  | 351  |
| 35°  | 471 | 353 | 237  | 353  | 471  | 299  |
| 45°  | 264 | 282 | 212  | 282  | 264  | 208  |
| 55°  | 173 | 198 | 185  | 198  | 173  | 156  |
| 65°  | 111 | 123 | 148  | 123  | 111  | 110  |
| 75°  | 56  | 60  | 92   | 60   | 56   | 59   |
| 85°  | 12  | 12  | 28   | 12   | 12   | 14   |
| 90°  | 10  | 0   | 10   | 0    | 10   | 8    |
| 95°  | 114 | 15  | 114  | 15   | 114  | 176  |
| 105° | 654 | 54  | 654  | 54   | 654  | 647  |
| 115° | 628 | 96  | 628  | 96   | 628  | 624  |
| 125° | 501 | 134 | 501  | 134  | 501  | 456  |
| 135° | 448 | 159 | 448  | 159  | 448  | 346  |
| 145° | 366 | 183 | 366  | 183  | 366  | 232  |
| 155° | 306 | 208 | 306  | 208  | 306  | 143  |
| 165° | 267 | 226 | 267  | 226  | 267  | 77   |
| 175° | 241 | 236 | 241  | 236  | 241  | 23   |
| 180° | 237 | 237 | 237  | 237  | 237  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 495.7 | 495.6 | 494.1 | 493.7 | 492.7 | 491.3 | 491.0 | 488.4 | 483.6 | 481.2 | 480.6 |
| 5°     | 546.4 | 550.3 | 545.3 | 544.3 | 543.7 | 537.4 | 534.1 | 530.3 | 521.4 | 516.2 | 512.1 |
| 7.5°   | 607.0 | 607.4 | 605.2 | 603.5 | 598.5 | 593.0 | 584.7 | 575.8 | 565.2 | 554.2 | 545.9 |
| 10°    | 646.8 | 648.3 | 645.8 | 645.5 | 635.6 | 629.4 | 617.1 | 606.7 | 594.7 | 581.4 | 569.2 |
| 12.5°  | 688.8 | 686.6 | 685.3 | 677.1 | 675.2 | 664.0 | 649.6 | 639.0 | 620.4 | 605.1 | 589.0 |
| 15°    | 750.6 | 746.3 | 743.6 | 732.3 | 726.7 | 711.0 | 695.8 | 684.0 | 659.9 | 636.9 | 619.5 |
| 17.5°  | 786.8 | 791.1 | 784.9 | 780.2 | 765.7 | 754.7 | 739.2 | 714.4 | 695.6 | 667.1 | 645.1 |
| 20°    | 813.1 | 813.5 | 810.0 | 805.2 | 793.9 | 779.9 | 763.0 | 736.0 | 713.4 | 685.0 | 654.8 |
| 22.5°  | 820.2 | 820.3 | 818.8 | 814.3 | 805.7 | 794.4 | 777.3 | 754.7 | 727.4 | 696.6 | 666.4 |
| 25°    | 796.9 | 796.1 | 797.9 | 802.9 | 799.6 | 796.1 | 786.3 | 769.5 | 744.0 | 711.4 | 679.0 |
| 27.5°  | 710.3 | 715.7 | 725.5 | 737.8 | 749.7 | 758.7 | 761.2 | 757.8 | 742.1 | 715.3 | 681.3 |
| 30°    | 647.9 | 654.5 | 661.9 | 674.2 | 698.1 | 711.8 | 726.8 | 738.3 | 731.9 | 710.5 | 678.8 |
| 32.5°  | 579.4 | 581.1 | 591.9 | 605.9 | 627.9 | 654.2 | 678.1 | 701.2 | 708.9 | 697.7 | 671.2 |
| 35°    | 471.2 | 473.9 | 485.7 | 499.5 | 526.4 | 558.6 | 594.5 | 626.6 | 653.0 | 663.6 | 650.0 |
| 37.5°  | 384.5 | 392.2 | 400.6 | 415.5 | 439.1 | 468.1 | 505.4 | 546.9 | 586.3 | 612.7 | 617.2 |
| 40°    | 343.5 | 348.3 | 354.2 | 365.7 | 385.7 | 414.3 | 446.3 | 493.7 | 535.7 | 573.5 | 585.8 |
| 42.5°  | 311.0 | 313.9 | 317.6 | 327.8 | 343.1 | 371.5 | 400.8 | 442.5 | 484.5 | 529.8 | 550.5 |
| 45°    | 264.3 | 267.3 | 273.5 | 279.4 | 291.0 | 310.6 | 337.9 | 372.2 | 414.5 | 458.0 | 496.3 |
| 47.5°  | 230.6 | 232.4 | 236.1 | 242.6 | 252.4 | 265.4 | 287.5 | 316.2 | 355.3 | 397.7 | 438.4 |
| 50°    | 211.5 | 213.0 | 215.9 | 221.7 | 229.3 | 240.8 | 258.9 | 285.8 | 316.4 | 359.1 | 399.0 |
| 52.5°  | 196.3 | 197.0 | 199.1 | 203.0 | 209.0 | 218.7 | 233.7 | 255.8 | 284.4 | 322.4 | 362.2 |
| 55°    | 172.9 | 173.7 | 175.6 | 178.5 | 183.7 | 189.9 | 201.2 | 217.8 | 242.7 | 275.7 | 310.3 |
| 57.5°  | 153.6 | 154.2 | 155.7 | 156.9 | 161.2 | 166.2 | 175.0 | 186.8 | 205.6 | 233.7 | 264.5 |
| 60°    | 141.2 | 140.9 | 142.8 | 143.7 | 146.7 | 150.9 | 157.7 | 169.0 | 185.4 | 208.0 | 236.4 |
| 62.5°  | 129.2 | 128.7 | 130.3 | 131.6 | 133.2 | 136.8 | 142.4 | 151.2 | 164.6 | 185.0 | 209.5 |
| 65°    | 111.1 | 110.4 | 111.4 | 112.9 | 114.4 | 116.3 | 120.4 | 128.3 | 138.9 | 153.6 | 172.3 |
| 67.5°  | 93.0  | 93.8  | 94.0  | 94.7  | 95.6  | 98.2  | 101.0 | 106.6 | 114.1 | 125.9 | 141.7 |
| 70°    | 82.2  | 82.4  | 83.2  | 83.2  | 83.7  | 86.1  | 88.4  | 91.6  | 99.0  | 109.8 | 122.7 |
| 72.5°  | 71.4  | 72.2  | 71.9  | 72.5  | 73.0  | 74.5  | 76.1  | 79.3  | 85.5  | 93.6  | 104.5 |
| 75°    | 55.6  | 56.2  | 56.2  | 56.3  | 56.9  | 57.5  | 58.9  | 61.1  | 65.6  | 71.6  | 79.1  |
| 77.5°  | 40.5  | 40.6  | 40.8  | 41.6  | 41.6  | 42.5  | 43.5  | 45.3  | 47.5  | 51.6  | 56.3  |
| 80°    | 31.2  | 31.6  | 31.5  | 31.9  | 31.9  | 32.6  | 33.0  | 35.3  | 36.3  | 39.0  | 42.6  |
| 82.5°  | 22.9  | 23.3  | 23.2  | 23.8  | 24.1  | 24.3  | 24.8  | 25.8  | 26.7  | 29.1  | 30.6  |
| 85°    | 11.6  | 12.0  | 11.6  | 12.0  | 12.6  | 12.7  | 13.3  | 13.5  | 14.3  | 14.8  | 16.2  |
| 87.5°  | 5.4   | 5.8   | 5.9   | 6.0   | 6.2   | 6.4   | 6.4   | 6.1   | 6.7   | 6.9   | 7.3   |
| 90°    | 9.8   | 9.8   | 10.2  | 9.8   | 9.3   | 9.3   | 8.8   | 8.4   | 7.9   | 8.4   | 7.4   |
| 92.5°  | 35.8  | 35.8  | 37.4  | 39.9  | 45.4  | 54.7  | 68.7  | 91.3  | 122.9 | 147.5 | 129.1 |
| 95°    | 113.5 | 119.5 | 127.9 | 142.4 | 165.1 | 210.2 | 272.6 | 344.6 | 389.7 | 379.0 | 286.0 |
| 97.5°  | 303.3 | 313.0 | 326.9 | 355.0 | 388.3 | 436.9 | 482.4 | 509.2 | 489.7 | 399.3 | 267.7 |
| 100°   | 426.5 | 430.2 | 444.2 | 472.5 | 513.0 | 547.4 | 570.2 | 560.9 | 493.0 | 373.9 | 242.8 |
| 102.5° | 533.6 | 536.6 | 551.3 | 571.9 | 596.7 | 611.1 | 604.5 | 558.3 | 465.0 | 342.3 | 226.0 |
| 105°   | 654.4 | 657.1 | 663.7 | 667.4 | 666.5 | 647.4 | 601.4 | 520.9 | 414.4 | 305.1 | 211.7 |
| 107.5° | 699.2 | 698.0 | 693.3 | 682.7 | 659.7 | 618.3 | 553.4 | 467.8 | 373.5 | 284.3 | 209.0 |
| 110°   | 699.9 | 695.8 | 687.4 | 667.9 | 634.9 | 583.7 | 516.2 | 435.8 | 353.0 | 277.2 | 209.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 678.0 | 671.2 | 659.5 | 635.9 | 598.3 | 547.2 | 483.5 | 412.4 | 341.4 | 273.9 | 212.0 |
| 115°   | 628.4 | 624.6 | 609.8 | 581.8 | 545.1 | 500.4 | 446.1 | 388.8 | 330.7 | 272.1 | 216.3 |
| 117.5° | 578.0 | 575.1 | 560.0 | 536.6 | 505.2 | 467.4 | 424.6 | 377.2 | 325.9 | 271.6 | 220.8 |
| 120°   | 549.8 | 544.6 | 532.6 | 512.1 | 485.5 | 452.5 | 415.3 | 372.1 | 323.3 | 271.6 | 224.2 |
| 122.5° | 527.4 | 522.3 | 512.1 | 494.6 | 472.1 | 443.2 | 409.4 | 367.6 | 320.2 | 271.3 | 227.6 |
| 125°   | 501.3 | 498.6 | 489.8 | 476.2 | 457.6 | 432.0 | 400.0 | 360.0 | 315.4 | 270.7 | 232.5 |
| 127.5° | 486.1 | 483.3 | 475.9 | 463.9 | 445.2 | 420.9 | 388.9 | 350.7 | 308.8 | 269.6 | 236.5 |
| 130°   | 477.2 | 474.4 | 466.9 | 455.3 | 436.3 | 411.6 | 380.0 | 343.2 | 304.6 | 269.3 | 239.5 |
| 132.5° | 467.2 | 464.3 | 457.3 | 444.2 | 425.4 | 400.8 | 369.9 | 335.4 | 300.9 | 268.9 | 242.1 |
| 135°   | 448.3 | 445.6 | 438.1 | 425.1 | 406.5 | 383.2 | 354.9 | 324.7 | 295.3 | 268.3 | 246.1 |
| 137.5° | 425.1 | 421.8 | 415.6 | 402.8 | 385.4 | 364.4 | 340.5 | 314.9 | 290.5 | 268.2 | 248.3 |
| 140°   | 408.4 | 404.6 | 398.1 | 387.9 | 371.6 | 352.0 | 331.2 | 309.2 | 287.9 | 267.9 | 250.2 |
| 142.5° | 390.4 | 387.9 | 382.1 | 372.6 | 358.2 | 341.3 | 323.3 | 304.1 | 285.7 | 267.9 | 251.7 |
| 145°   | 366.0 | 363.7 | 359.1 | 351.1 | 339.5 | 326.5 | 312.5 | 296.7 | 281.8 | 266.9 | 252.6 |
| 147.5° | 344.4 | 343.5 | 340.0 | 333.2 | 324.7 | 314.4 | 303.2 | 290.7 | 278.4 | 265.3 | 253.0 |
| 150°   | 332.1 | 331.6 | 328.8 | 322.8 | 315.4 | 307.0 | 297.7 | 287.0 | 275.8 | 264.2 | 253.0 |
| 152.5° | 320.9 | 320.4 | 318.8 | 313.8 | 307.5 | 300.6 | 292.0 | 282.8 | 272.8 | 262.3 | 252.3 |
| 155°   | 306.5 | 306.5 | 305.1 | 301.4 | 296.7 | 291.1 | 284.1 | 276.7 | 268.3 | 259.5 | 251.1 |
| 157.5° | 293.8 | 293.8 | 293.0 | 290.2 | 286.7 | 282.2 | 276.4 | 270.1 | 263.8 | 256.7 | 250.0 |
| 160°   | 286.0 | 286.0 | 285.6 | 282.7 | 280.0 | 276.2 | 271.2 | 266.0 | 260.5 | 254.4 | 248.8 |
| 162.5° | 278.6 | 279.0 | 278.5 | 275.7 | 273.7 | 270.3 | 266.3 | 262.0 | 257.5 | 252.2 | 247.7 |
| 165°   | 267.4 | 267.9 | 268.3 | 266.5 | 264.6 | 262.3 | 259.0 | 256.2 | 252.6 | 248.8 | 245.6 |
| 167.5° | 258.6 | 258.9 | 259.0 | 257.9 | 256.9 | 255.5 | 252.9 | 250.8 | 248.1 | 245.5 | 243.4 |
| 170°   | 253.0 | 253.0 | 253.5 | 253.0 | 252.1 | 250.7 | 248.8 | 247.4 | 245.1 | 243.2 | 241.8 |
| 172.5° | 247.4 | 248.2 | 248.7 | 248.2 | 247.6 | 246.6 | 245.5 | 244.4 | 242.5 | 241.0 | 240.4 |
| 175°   | 240.9 | 241.8 | 242.8 | 241.8 | 241.8 | 241.8 | 240.9 | 240.4 | 239.5 | 238.6 | 238.6 |
| 177.5° | 237.1 | 237.8 | 238.6 | 238.2 | 238.6 | 238.2 | 238.2 | 237.8 | 237.5 | 237.1 | 237.1 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 480.8 | 478.6 | 477.0 | 475.8 | 472.5 | 470.4 | 468.9 | 466.8 | 464.2 | 461.6 | 458.4 |
| 5°     | 508.0 | 501.5 | 496.7 | 489.3 | 482.4 | 476.6 | 470.6 | 465.2 | 458.7 | 451.5 | 446.3 |
| 7.5°   | 536.7 | 526.9 | 514.5 | 503.6 | 491.4 | 480.8 | 471.3 | 461.6 | 451.5 | 441.6 | 432.7 |
| 10°    | 555.0 | 542.4 | 528.5 | 512.1 | 496.7 | 483.0 | 470.3 | 457.9 | 445.9 | 434.0 | 423.7 |
| 12.5°  | 574.5 | 558.9 | 538.3 | 519.2 | 501.9 | 483.6 | 468.2 | 453.1 | 438.6 | 426.1 | 414.2 |
| 15°    | 600.9 | 578.3 | 554.6 | 528.9 | 506.1 | 484.7 | 463.7 | 444.6 | 428.4 | 411.7 | 400.1 |
| 17.5°  | 617.0 | 589.1 | 562.0 | 535.2 | 507.6 | 480.5 | 457.9 | 435.9 | 415.6 | 399.1 | 384.5 |
| 20°    | 627.7 | 599.9 | 566.1 | 539.3 | 506.5 | 478.7 | 452.5 | 428.0 | 406.8 | 389.2 | 374.1 |
| 22.5°  | 636.9 | 604.9 | 571.0 | 535.7 | 503.1 | 473.6 | 444.9 | 420.3 | 398.6 | 380.1 | 365.7 |
| 25°    | 642.0 | 605.1 | 568.4 | 533.3 | 496.3 | 461.4 | 435.3 | 406.3 | 383.2 | 363.7 | 348.3 |
| 27.5°  | 642.5 | 603.1 | 561.6 | 522.6 | 484.4 | 451.8 | 419.0 | 393.1 | 369.1 | 348.5 | 333.6 |
| 30°    | 640.8 | 599.7 | 555.1 | 512.9 | 474.5 | 439.2 | 410.6 | 382.5 | 357.9 | 337.5 | 322.0 |
| 32.5°  | 635.4 | 592.6 | 546.8 | 502.1 | 462.3 | 427.7 | 398.3 | 371.5 | 347.6 | 327.4 | 311.2 |
| 35°    | 619.8 | 577.5 | 528.7 | 482.2 | 441.5 | 406.6 | 379.9 | 352.7 | 328.8 | 309.7 | 294.1 |
| 37.5°  | 595.3 | 557.2 | 507.5 | 459.4 | 419.4 | 384.3 | 357.9 | 333.4 | 311.8 | 292.4 | 276.4 |
| 40°    | 574.1 | 540.5 | 490.6 | 443.8 | 400.6 | 367.2 | 342.5 | 319.9 | 298.5 | 280.1 | 264.9 |
| 42.5°  | 549.5 | 520.2 | 474.3 | 424.7 | 382.9 | 349.4 | 325.4 | 305.1 | 284.9 | 268.0 | 252.7 |
| 45°    | 505.7 | 486.4 | 443.2 | 397.3 | 353.8 | 322.2 | 299.3 | 281.5 | 264.6 | 247.9 | 235.2 |
| 47.5°  | 455.4 | 445.8 | 409.4 | 365.8 | 324.7 | 293.4 | 273.5 | 257.1 | 242.2 | 228.2 | 217.0 |
| 50°    | 421.6 | 416.9 | 385.6 | 343.5 | 304.1 | 274.8 | 254.7 | 240.6 | 227.9 | 215.6 | 204.9 |
| 52.5°  | 388.2 | 388.1 | 359.7 | 321.2 | 284.8 | 256.6 | 236.6 | 223.5 | 212.5 | 202.4 | 192.9 |
| 55°    | 337.3 | 342.7 | 320.5 | 286.2 | 253.6 | 228.0 | 210.1 | 198.4 | 190.6 | 182.4 | 175.2 |
| 57.5°  | 290.5 | 299.5 | 281.1 | 250.9 | 223.6 | 200.2 | 184.6 | 175.8 | 167.5 | 162.5 | 157.3 |
| 60°    | 259.9 | 268.4 | 254.1 | 228.7 | 203.0 | 183.0 | 168.0 | 160.1 | 153.0 | 149.5 | 145.9 |
| 62.5°  | 232.8 | 240.3 | 229.8 | 206.1 | 183.8 | 164.5 | 152.0 | 144.4 | 139.6 | 135.8 | 133.4 |
| 65°    | 194.0 | 200.3 | 191.2 | 174.1 | 154.9 | 139.5 | 129.3 | 123.3 | 118.7 | 117.2 | 114.4 |
| 67.5°  | 156.8 | 162.6 | 157.7 | 143.1 | 127.8 | 116.0 | 108.0 | 102.3 | 99.5  | 98.2  | 96.3  |
| 70°    | 134.7 | 140.5 | 135.3 | 122.5 | 110.7 | 100.9 | 93.4  | 90.1  | 87.2  | 86.7  | 84.0  |
| 72.5°  | 116.0 | 119.9 | 114.7 | 104.8 | 94.7  | 86.4  | 80.6  | 77.1  | 75.7  | 74.6  | 73.1  |
| 75°    | 87.0  | 90.5  | 87.0  | 79.3  | 72.2  | 66.4  | 61.4  | 60.0  | 58.3  | 57.7  | 56.7  |
| 77.5°  | 61.6  | 64.6  | 62.0  | 57.2  | 51.8  | 47.3  | 44.6  | 42.9  | 42.5  | 41.5  | 42.0  |
| 80°    | 47.0  | 49.0  | 46.5  | 43.2  | 39.0  | 35.9  | 34.0  | 33.0  | 31.9  | 31.5  | 32.2  |
| 82.5°  | 33.8  | 34.7  | 33.3  | 31.1  | 28.0  | 26.0  | 24.7  | 23.6  | 23.3  | 23.4  | 23.4  |
| 85°    | 17.5  | 17.4  | 17.2  | 15.2  | 14.3  | 13.0  | 12.1  | 12.0  | 11.7  | 12.1  | 12.6  |
| 87.5°  | 7.2   | 7.3   | 6.6   | 6.0   | 5.5   | 4.9   | 4.5   | 4.1   | 4.5   | 4.9   | 5.1   |
| 90°    | 6.5   | 6.5   | 3.8   | 3.8   | 3.3   | 2.8   | 1.4   | 0.5   | 1.4   | 2.8   | 3.3   |
| 92.5°  | 93.9  | 57.9  | 34.2  | 24.5  | 17.8  | 12.1  | 7.7   | 5.3   | 7.7   | 12.1  | 17.8  |
| 95°    | 174.9 | 98.6  | 58.1  | 38.6  | 27.5  | 21.4  | 16.7  | 15.3  | 16.7  | 21.4  | 27.5  |
| 97.5°  | 157.2 | 94.2  | 63.1  | 46.7  | 37.1  | 31.6  | 27.6  | 27.6  | 27.6  | 31.6  | 37.1  |
| 100°   | 147.9 | 95.3  | 67.9  | 53.0  | 44.2  | 38.6  | 35.4  | 35.4  | 35.4  | 38.6  | 44.2  |
| 102.5° | 145.3 | 99.1  | 74.2  | 60.1  | 51.6  | 46.4  | 43.5  | 42.8  | 43.5  | 46.4  | 51.6  |
| 105°   | 146.5 | 107.9 | 85.6  | 72.1  | 63.8  | 58.1  | 55.8  | 54.4  | 55.8  | 58.1  | 63.8  |
| 107.5° | 153.4 | 118.2 | 97.8  | 84.5  | 76.5  | 70.5  | 68.2  | 67.3  | 68.2  | 70.5  | 76.5  |
| 110°   | 158.6 | 126.0 | 105.6 | 93.0  | 84.6  | 79.1  | 76.7  | 75.8  | 76.7  | 79.1  | 84.6  |





TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 164.2 | 133.5 | 113.7 | 101.2 | 92.9  | 87.6  | 85.0  | 84.0  | 85.0  | 87.6  | 92.9  |
| 115°   | 173.0 | 145.1 | 126.5 | 114.0 | 105.1 | 100.4 | 97.2  | 95.8  | 97.2  | 100.4 | 105.1 |
| 117.5° | 182.1 | 156.4 | 138.7 | 125.6 | 117.4 | 112.3 | 109.4 | 108.1 | 109.4 | 112.3 | 117.4 |
| 120°   | 188.3 | 164.2 | 146.5 | 133.5 | 125.6 | 120.4 | 117.2 | 116.3 | 117.2 | 120.4 | 125.6 |
| 122.5° | 194.3 | 171.6 | 153.9 | 141.3 | 132.6 | 127.9 | 124.7 | 123.7 | 124.7 | 127.9 | 132.6 |
| 125°   | 203.3 | 181.8 | 165.1 | 152.1 | 143.2 | 138.1 | 135.3 | 133.5 | 135.3 | 138.1 | 143.2 |
| 127.5° | 211.0 | 191.4 | 175.1 | 162.0 | 152.8 | 147.0 | 143.7 | 142.1 | 143.7 | 147.0 | 152.8 |
| 130°   | 215.8 | 197.6 | 181.8 | 168.4 | 159.6 | 152.5 | 148.8 | 147.0 | 148.8 | 152.5 | 159.6 |
| 132.5° | 220.6 | 202.8 | 187.0 | 174.3 | 164.8 | 158.2 | 153.3 | 151.8 | 153.3 | 158.2 | 164.8 |
| 135°   | 227.0 | 210.2 | 194.9 | 182.8 | 173.0 | 165.1 | 160.5 | 158.6 | 160.5 | 165.1 | 173.0 |
| 137.5° | 231.5 | 215.8 | 201.5 | 190.0 | 179.8 | 172.3 | 167.1 | 165.4 | 167.1 | 172.3 | 179.8 |
| 140°   | 234.4 | 219.6 | 205.5 | 194.4 | 184.7 | 176.8 | 171.6 | 170.2 | 171.6 | 176.8 | 184.7 |
| 142.5° | 236.6 | 222.9 | 209.3 | 198.5 | 189.1 | 181.6 | 176.8 | 175.5 | 176.8 | 181.6 | 189.1 |
| 145°   | 239.0 | 226.5 | 214.4 | 204.2 | 195.3 | 188.8 | 184.2 | 182.8 | 184.2 | 188.8 | 195.3 |
| 147.5° | 241.2 | 230.2 | 218.9 | 209.7 | 202.3 | 195.6 | 191.5 | 191.0 | 191.5 | 195.6 | 202.3 |
| 150°   | 242.3 | 232.1 | 221.8 | 213.0 | 206.0 | 200.5 | 196.7 | 196.2 | 196.7 | 200.5 | 206.0 |
| 152.5° | 243.0 | 233.6 | 224.5 | 216.4 | 210.1 | 204.9 | 201.2 | 201.1 | 201.2 | 204.9 | 210.1 |
| 155°   | 243.7 | 235.8 | 227.9 | 220.9 | 215.8 | 211.2 | 208.4 | 207.9 | 208.4 | 211.2 | 215.8 |
| 157.5° | 243.7 | 237.4 | 230.6 | 225.2 | 220.7 | 217.1 | 214.5 | 214.5 | 214.5 | 217.1 | 220.7 |
| 160°   | 243.7 | 238.1 | 232.5 | 227.4 | 223.7 | 220.5 | 218.6 | 218.6 | 218.6 | 220.5 | 223.7 |
| 162.5° | 243.7 | 238.9 | 233.7 | 229.7 | 226.3 | 223.4 | 221.9 | 222.3 | 221.9 | 223.4 | 226.3 |
| 165°   | 242.8 | 239.0 | 234.9 | 232.1 | 229.8 | 227.4 | 226.5 | 226.5 | 226.5 | 227.4 | 229.8 |
| 167.5° | 241.7 | 239.0 | 235.9 | 233.7 | 232.4 | 230.6 | 230.2 | 230.6 | 230.2 | 230.6 | 232.4 |
| 170°   | 240.9 | 238.6 | 236.3 | 234.9 | 233.9 | 232.5 | 232.1 | 232.5 | 232.1 | 232.5 | 233.9 |
| 172.5° | 240.2 | 238.2 | 236.6 | 235.6 | 235.1 | 234.0 | 233.9 | 234.4 | 233.9 | 234.0 | 235.1 |
| 175°   | 239.0 | 237.7 | 236.8 | 236.8 | 236.3 | 235.8 | 235.8 | 236.3 | 235.8 | 235.8 | 236.3 |
| 177.5° | 237.8 | 237.1 | 236.8 | 236.8 | 236.8 | 236.4 | 236.8 | 237.1 | 236.8 | 236.4 | 236.8 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 456.8 | 455.4 | 453.5 | 450.7 | 448.3 | 445.9 | 445.2 | 444.3 | 446.2 | 444.7 | 444.2 |
| 5°     | 441.9 | 437.8 | 432.6 | 426.6 | 423.1 | 418.2 | 417.2 | 415.2 | 413.3 | 413.1 | 411.2 |
| 7.5°   | 426.0 | 420.0 | 413.2 | 407.2 | 401.5 | 396.0 | 392.4 | 391.7 | 388.8 | 387.1 | 385.2 |
| 10°    | 415.8 | 408.5 | 400.6 | 394.8 | 388.2 | 382.5 | 378.4 | 376.1 | 374.1 | 372.0 | 370.1 |
| 12.5°  | 403.8 | 396.0 | 389.5 | 383.2 | 375.4 | 371.0 | 364.4 | 360.4 | 360.0 | 360.0 | 355.0 |
| 15°    | 389.8 | 382.0 | 372.0 | 363.1 | 358.9 | 350.4 | 346.7 | 342.1 | 339.2 | 336.3 | 334.0 |
| 17.5°  | 373.7 | 364.1 | 356.3 | 346.1 | 338.0 | 331.3 | 326.4 | 323.7 | 319.3 | 315.2 | 312.3 |
| 20°    | 363.7 | 353.5 | 345.2 | 334.4 | 325.5 | 317.2 | 313.2 | 309.3 | 306.1 | 302.6 | 299.3 |
| 22.5°  | 353.5 | 342.8 | 332.7 | 322.2 | 314.0 | 305.2 | 301.3 | 296.0 | 292.9 | 291.0 | 287.7 |
| 25°    | 337.5 | 325.9 | 314.3 | 304.3 | 295.8 | 288.0 | 282.9 | 278.8 | 275.3 | 273.8 | 271.7 |
| 27.5°  | 320.0 | 308.5 | 297.3 | 285.9 | 276.3 | 270.7 | 266.5 | 263.5 | 261.5 | 259.4 | 258.4 |
| 30°    | 308.9 | 296.9 | 285.0 | 274.3 | 265.5 | 259.9 | 256.1 | 254.0 | 252.4 | 251.4 | 250.5 |
| 32.5°  | 297.7 | 285.8 | 273.3 | 263.6 | 255.6 | 250.6 | 247.7 | 245.6 | 244.8 | 244.5 | 244.1 |
| 35°    | 279.6 | 267.7 | 256.1 | 247.4 | 239.9 | 237.9 | 235.4 | 234.2 | 233.8 | 235.2 | 235.8 |
| 37.5°  | 262.1 | 251.0 | 240.4 | 232.0 | 227.0 | 224.2 | 223.3 | 223.4 | 224.8 | 225.9 | 227.3 |
| 40°    | 250.9 | 240.0 | 230.0 | 222.7 | 218.0 | 216.3 | 215.9 | 216.9 | 218.4 | 219.8 | 221.4 |
| 42.5°  | 239.9 | 229.3 | 220.1 | 213.3 | 210.0 | 208.4 | 208.6 | 209.6 | 211.8 | 213.4 | 215.7 |
| 45°    | 222.9 | 214.0 | 205.1 | 199.5 | 196.8 | 197.2 | 197.2 | 198.9 | 201.1 | 203.6 | 206.1 |
| 47.5°  | 206.8 | 197.9 | 190.6 | 185.9 | 184.5 | 184.2 | 185.2 | 187.5 | 190.5 | 193.6 | 197.1 |
| 50°    | 196.1 | 187.5 | 181.2 | 176.9 | 175.4 | 175.9 | 177.5 | 179.6 | 183.3 | 187.2 | 190.9 |
| 52.5°  | 185.1 | 177.3 | 171.5 | 167.5 | 166.4 | 167.5 | 169.0 | 172.4 | 175.6 | 179.8 | 184.2 |
| 55°    | 168.0 | 161.5 | 156.9 | 154.0 | 153.6 | 154.2 | 155.9 | 159.6 | 164.2 | 169.4 | 173.7 |
| 57.5°  | 151.2 | 145.6 | 141.4 | 139.4 | 139.6 | 140.1 | 143.0 | 147.3 | 152.3 | 157.8 | 163.3 |
| 60°    | 139.7 | 134.7 | 131.2 | 129.6 | 129.9 | 131.0 | 134.5 | 138.5 | 144.7 | 150.1 | 155.9 |
| 62.5°  | 128.9 | 124.5 | 121.2 | 119.8 | 119.5 | 122.1 | 125.4 | 129.6 | 135.7 | 141.8 | 148.1 |
| 65°    | 111.5 | 108.0 | 105.3 | 104.6 | 105.2 | 107.1 | 111.4 | 116.9 | 122.1 | 128.5 | 135.1 |
| 67.5°  | 94.6  | 91.7  | 89.8  | 90.2  | 90.9  | 93.8  | 97.3  | 102.1 | 108.0 | 114.6 | 121.1 |
| 70°    | 83.7  | 81.0  | 79.5  | 79.7  | 80.9  | 84.3  | 87.4  | 92.2  | 98.6  | 105.3 | 110.7 |
| 72.5°  | 72.6  | 70.8  | 69.5  | 70.3  | 71.4  | 73.8  | 77.7  | 82.5  | 88.1  | 94.4  | 100.1 |
| 75°    | 55.8  | 55.8  | 55.0  | 55.6  | 57.3  | 59.6  | 62.5  | 67.5  | 73.1  | 78.2  | 82.8  |
| 77.5°  | 41.3  | 40.9  | 41.4  | 42.2  | 43.1  | 45.9  | 49.2  | 52.8  | 57.0  | 62.0  | 65.9  |
| 80°    | 31.6  | 31.9  | 32.8  | 34.0  | 34.3  | 36.4  | 39.9  | 43.2  | 46.5  | 50.7  | 54.4  |
| 82.5°  | 23.8  | 24.0  | 24.5  | 25.9  | 26.3  | 28.6  | 30.8  | 34.1  | 37.1  | 39.9  | 43.0  |
| 85°    | 13.0  | 13.0  | 13.9  | 14.5  | 15.4  | 17.0  | 18.3  | 20.3  | 23.0  | 24.9  | 27.8  |
| 87.5°  | 5.7   | 5.7   | 6.8   | 7.2   | 7.8   | 8.8   | 9.0   | 10.8  | 11.5  | 12.4  | 13.8  |
| 90°    | 3.8   | 3.8   | 6.5   | 6.5   | 7.4   | 8.4   | 7.9   | 8.4   | 8.8   | 9.3   | 9.3   |
| 92.5°  | 24.5  | 34.2  | 57.9  | 93.9  | 129.1 | 147.5 | 122.9 | 91.3  | 68.7  | 54.7  | 45.4  |
| 95°    | 38.6  | 58.1  | 98.6  | 174.9 | 286.0 | 379.0 | 389.7 | 344.6 | 272.6 | 210.2 | 165.1 |
| 97.5°  | 46.7  | 63.1  | 94.2  | 157.2 | 267.7 | 399.3 | 489.7 | 509.2 | 482.4 | 436.9 | 388.3 |
| 100°   | 53.0  | 67.9  | 95.3  | 147.9 | 242.8 | 373.9 | 493.0 | 560.9 | 570.2 | 547.4 | 513.0 |
| 102.5° | 60.1  | 74.2  | 99.1  | 145.3 | 226.0 | 342.3 | 465.0 | 558.3 | 604.5 | 611.1 | 596.7 |
| 105°   | 72.1  | 85.6  | 107.9 | 146.5 | 211.7 | 305.1 | 414.4 | 520.9 | 601.4 | 647.4 | 666.5 |
| 107.5° | 84.5  | 97.8  | 118.2 | 153.4 | 209.0 | 284.3 | 373.5 | 467.8 | 553.4 | 618.3 | 659.7 |
| 110°   | 93.0  | 105.6 | 126.0 | 158.6 | 209.8 | 277.2 | 353.0 | 435.8 | 516.2 | 583.7 | 634.9 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 101.2 | 113.7 | 133.5 | 164.2 | 212.0 | 273.9 | 341.4 | 412.4 | 483.5 | 547.2 | 598.3 |
| 115°   | 114.0 | 126.5 | 145.1 | 173.0 | 216.3 | 272.1 | 330.7 | 388.8 | 446.1 | 500.4 | 545.1 |
| 117.5° | 125.6 | 138.7 | 156.4 | 182.1 | 220.8 | 271.6 | 325.9 | 377.2 | 424.6 | 467.4 | 505.2 |
| 120°   | 133.5 | 146.5 | 164.2 | 188.3 | 224.2 | 271.6 | 323.3 | 372.1 | 415.3 | 452.5 | 485.5 |
| 122.5° | 141.3 | 153.9 | 171.6 | 194.3 | 227.6 | 271.3 | 320.2 | 367.6 | 409.4 | 443.2 | 472.1 |
| 125°   | 152.1 | 165.1 | 181.8 | 203.3 | 232.5 | 270.7 | 315.4 | 360.0 | 400.0 | 432.0 | 457.6 |
| 127.5° | 162.0 | 175.1 | 191.4 | 211.0 | 236.5 | 269.6 | 308.8 | 350.7 | 388.9 | 420.9 | 445.2 |
| 130°   | 168.4 | 181.8 | 197.6 | 215.8 | 239.5 | 269.3 | 304.6 | 343.2 | 380.0 | 411.6 | 436.3 |
| 132.5° | 174.3 | 187.0 | 202.8 | 220.6 | 242.1 | 268.9 | 300.9 | 335.4 | 369.9 | 400.8 | 425.4 |
| 135°   | 182.8 | 194.9 | 210.2 | 227.0 | 246.1 | 268.3 | 295.3 | 324.7 | 354.9 | 383.2 | 406.5 |
| 137.5° | 190.0 | 201.5 | 215.8 | 231.5 | 248.3 | 268.2 | 290.5 | 314.9 | 340.5 | 364.4 | 385.4 |
| 140°   | 194.4 | 205.5 | 219.6 | 234.4 | 250.2 | 267.9 | 287.9 | 309.2 | 331.2 | 352.0 | 371.6 |
| 142.5° | 198.5 | 209.3 | 222.9 | 236.6 | 251.7 | 267.9 | 285.7 | 304.1 | 323.3 | 341.3 | 358.2 |
| 145°   | 204.2 | 214.4 | 226.5 | 239.0 | 252.6 | 266.9 | 281.8 | 296.7 | 312.5 | 326.5 | 339.5 |
| 147.5° | 209.7 | 218.9 | 230.2 | 241.2 | 253.0 | 265.3 | 278.4 | 290.7 | 303.2 | 314.4 | 324.7 |
| 150°   | 213.0 | 221.8 | 232.1 | 242.3 | 253.0 | 264.2 | 275.8 | 287.0 | 297.7 | 307.0 | 315.4 |
| 152.5° | 216.4 | 224.5 | 233.6 | 243.0 | 252.3 | 262.3 | 272.8 | 282.8 | 292.0 | 300.6 | 307.5 |
| 155°   | 220.9 | 227.9 | 235.8 | 243.7 | 251.1 | 259.5 | 268.3 | 276.7 | 284.1 | 291.1 | 296.7 |
| 157.5° | 225.2 | 230.6 | 237.4 | 243.7 | 250.0 | 256.7 | 263.8 | 270.1 | 276.4 | 282.2 | 286.7 |
| 160°   | 227.4 | 232.5 | 238.1 | 243.7 | 248.8 | 254.4 | 260.5 | 266.0 | 271.2 | 276.2 | 280.0 |
| 162.5° | 229.7 | 233.7 | 238.9 | 243.7 | 247.7 | 252.2 | 257.5 | 262.0 | 266.3 | 270.3 | 273.7 |
| 165°   | 232.1 | 234.9 | 239.0 | 242.8 | 245.6 | 248.8 | 252.6 | 256.2 | 259.0 | 262.3 | 264.6 |
| 167.5° | 233.7 | 235.9 | 239.0 | 241.7 | 243.4 | 245.5 | 248.1 | 250.8 | 252.9 | 255.5 | 256.9 |
| 170°   | 234.9 | 236.3 | 238.6 | 240.9 | 241.8 | 243.2 | 245.1 | 247.4 | 248.8 | 250.7 | 252.1 |
| 172.5° | 235.6 | 236.6 | 238.2 | 240.2 | 240.4 | 241.0 | 242.5 | 244.4 | 245.5 | 246.6 | 247.6 |
| 175°   | 236.8 | 236.8 | 237.7 | 239.0 | 238.6 | 238.6 | 239.5 | 240.4 | 240.9 | 241.8 | 241.8 |
| 177.5° | 236.8 | 236.8 | 237.1 | 237.8 | 237.1 | 237.1 | 237.5 | 237.8 | 238.2 | 238.2 | 238.6 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 443.8 | 443.6 | 442.5 | 442.3 | 442.5 | 443.6 | 443.8 | 444.2 | 444.7 | 446.2 | 444.3 |
| 5°     | 410.0 | 409.0 | 408.5 | 410.6 | 408.5 | 409.0 | 410.0 | 411.2 | 413.1 | 413.3 | 415.2 |
| 7.5°   | 384.5 | 383.8 | 382.0 | 381.5 | 382.0 | 383.8 | 384.5 | 385.2 | 387.1 | 388.8 | 391.7 |
| 10°    | 368.2 | 367.4 | 365.8 | 365.4 | 365.8 | 367.4 | 368.2 | 370.1 | 372.0 | 374.1 | 376.1 |
| 12.5°  | 352.4 | 350.9 | 350.6 | 351.0 | 350.6 | 350.9 | 352.4 | 355.0 | 360.0 | 360.0 | 360.4 |
| 15°    | 331.5 | 330.7 | 328.6 | 329.2 | 328.6 | 330.7 | 331.5 | 334.0 | 336.3 | 339.2 | 342.1 |
| 17.5°  | 310.9 | 310.0 | 307.4 | 309.7 | 307.4 | 310.0 | 310.9 | 312.3 | 315.2 | 319.3 | 323.7 |
| 20°    | 297.9 | 296.4 | 295.1 | 294.8 | 295.1 | 296.4 | 297.9 | 299.3 | 302.6 | 306.1 | 309.3 |
| 22.5°  | 285.6 | 284.2 | 284.1 | 282.8 | 284.1 | 284.2 | 285.6 | 287.7 | 291.0 | 292.9 | 296.0 |
| 25°    | 270.1 | 268.8 | 268.4 | 267.4 | 268.4 | 268.8 | 270.1 | 271.7 | 273.8 | 275.3 | 278.8 |
| 27.5°  | 258.3 | 257.6 | 256.9 | 257.2 | 256.9 | 257.6 | 258.3 | 258.4 | 259.4 | 261.5 | 263.5 |
| 30°    | 251.0 | 250.9 | 250.5 | 250.5 | 250.5 | 250.9 | 251.0 | 250.5 | 251.4 | 252.4 | 254.0 |
| 32.5°  | 245.0 | 245.0 | 245.2 | 245.2 | 245.2 | 245.0 | 245.0 | 244.1 | 244.5 | 244.8 | 245.6 |
| 35°    | 236.6 | 237.2 | 237.5 | 236.9 | 237.5 | 237.2 | 236.6 | 235.8 | 235.2 | 233.8 | 234.2 |
| 37.5°  | 228.9 | 229.5 | 230.1 | 230.7 | 230.1 | 229.5 | 228.9 | 227.3 | 225.9 | 224.8 | 223.4 |
| 40°    | 223.1 | 224.4 | 224.8 | 225.8 | 224.8 | 224.4 | 223.1 | 221.4 | 219.8 | 218.4 | 216.9 |
| 42.5°  | 217.5 | 219.0 | 220.0 | 220.2 | 220.0 | 219.0 | 217.5 | 215.7 | 213.4 | 211.8 | 209.6 |
| 45°    | 209.0 | 210.5 | 211.9 | 211.9 | 211.9 | 210.5 | 209.0 | 206.1 | 203.6 | 201.1 | 198.9 |
| 47.5°  | 200.2 | 202.4 | 203.7 | 204.1 | 203.7 | 202.4 | 200.2 | 197.1 | 193.6 | 190.5 | 187.5 |
| 50°    | 194.1 | 196.8 | 198.2 | 199.1 | 198.2 | 196.8 | 194.1 | 190.9 | 187.2 | 183.3 | 179.6 |
| 52.5°  | 188.3 | 190.9 | 192.7 | 193.2 | 192.7 | 190.9 | 188.3 | 184.2 | 179.8 | 175.6 | 172.4 |
| 55°    | 178.1 | 182.0 | 184.1 | 184.8 | 184.1 | 182.0 | 178.1 | 173.7 | 169.4 | 164.2 | 159.6 |
| 57.5°  | 168.5 | 172.1 | 174.6 | 175.1 | 174.6 | 172.1 | 168.5 | 163.3 | 157.8 | 152.3 | 147.3 |
| 60°    | 161.1 | 165.0 | 168.0 | 168.6 | 168.0 | 165.0 | 161.1 | 155.9 | 150.1 | 144.7 | 138.5 |
| 62.5°  | 153.5 | 157.6 | 160.4 | 161.8 | 160.4 | 157.6 | 153.5 | 148.1 | 141.8 | 135.7 | 129.6 |
| 65°    | 140.5 | 144.6 | 147.2 | 147.8 | 147.2 | 144.6 | 140.5 | 135.1 | 128.5 | 122.1 | 116.9 |
| 67.5°  | 126.2 | 130.3 | 132.0 | 133.1 | 132.0 | 130.3 | 126.2 | 121.1 | 114.6 | 108.0 | 102.1 |
| 70°    | 116.2 | 119.4 | 121.4 | 122.3 | 121.4 | 119.4 | 116.2 | 110.7 | 105.3 | 98.6  | 92.2  |
| 72.5°  | 104.8 | 108.2 | 110.4 | 110.6 | 110.4 | 108.2 | 104.8 | 100.1 | 94.4  | 88.1  | 82.5  |
| 75°    | 87.2  | 90.3  | 91.5  | 91.5  | 91.5  | 90.3  | 87.2  | 82.8  | 78.2  | 73.1  | 67.5  |
| 77.5°  | 69.1  | 70.6  | 72.1  | 72.4  | 72.1  | 70.6  | 69.1  | 65.9  | 62.0  | 57.0  | 52.8  |
| 80°    | 57.3  | 58.3  | 59.4  | 59.4  | 59.4  | 58.3  | 57.3  | 54.4  | 50.7  | 46.5  | 43.2  |
| 82.5°  | 45.2  | 46.1  | 47.2  | 47.0  | 47.2  | 46.1  | 45.2  | 43.0  | 39.9  | 37.1  | 34.1  |
| 85°    | 27.4  | 29.1  | 28.9  | 28.5  | 28.9  | 29.1  | 27.4  | 27.8  | 24.9  | 23.0  | 20.3  |
| 87.5°  | 14.3  | 14.5  | 14.9  | 15.2  | 14.9  | 14.5  | 14.3  | 13.8  | 12.4  | 11.5  | 10.8  |
| 90°    | 9.8   | 10.2  | 9.8   | 9.8   | 9.8   | 10.2  | 9.8   | 9.3   | 9.3   | 8.8   | 8.4   |
| 92.5°  | 39.9  | 37.4  | 35.8  | 35.8  | 35.8  | 37.4  | 39.9  | 45.4  | 54.7  | 68.7  | 91.3  |
| 95°    | 142.4 | 127.9 | 119.5 | 113.5 | 119.5 | 127.9 | 142.4 | 165.1 | 210.2 | 272.6 | 344.6 |
| 97.5°  | 355.0 | 326.9 | 313.0 | 303.3 | 313.0 | 326.9 | 355.0 | 388.3 | 436.9 | 482.4 | 509.2 |
| 100°   | 472.5 | 444.2 | 430.2 | 426.5 | 430.2 | 444.2 | 472.5 | 513.0 | 547.4 | 570.2 | 560.9 |
| 102.5° | 571.9 | 551.3 | 536.6 | 533.6 | 536.6 | 551.3 | 571.9 | 596.7 | 611.1 | 604.5 | 558.3 |
| 105°   | 667.4 | 663.7 | 657.1 | 654.4 | 657.1 | 663.7 | 667.4 | 666.5 | 647.4 | 601.4 | 520.9 |
| 107.5° | 682.7 | 693.3 | 698.0 | 699.2 | 698.0 | 693.3 | 682.7 | 659.7 | 618.3 | 553.4 | 467.8 |
| 110°   | 667.9 | 687.4 | 695.8 | 699.9 | 695.8 | 687.4 | 667.9 | 634.9 | 583.7 | 516.2 | 435.8 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 635.9 | 659.5 | 671.2 | 678.0 | 671.2 | 659.5 | 635.9 | 598.3 | 547.2 | 483.5 | 412.4 |
| 115°   | 581.8 | 609.8 | 624.6 | 628.4 | 624.6 | 609.8 | 581.8 | 545.1 | 500.4 | 446.1 | 388.8 |
| 117.5° | 536.6 | 560.0 | 575.1 | 578.0 | 575.1 | 560.0 | 536.6 | 505.2 | 467.4 | 424.6 | 377.2 |
| 120°   | 512.1 | 532.6 | 544.6 | 549.8 | 544.6 | 532.6 | 512.1 | 485.5 | 452.5 | 415.3 | 372.1 |
| 122.5° | 494.6 | 512.1 | 522.3 | 527.4 | 522.3 | 512.1 | 494.6 | 472.1 | 443.2 | 409.4 | 367.6 |
| 125°   | 476.2 | 489.8 | 498.6 | 501.3 | 498.6 | 489.8 | 476.2 | 457.6 | 432.0 | 400.0 | 360.0 |
| 127.5° | 463.9 | 475.9 | 483.3 | 486.1 | 483.3 | 475.9 | 463.9 | 445.2 | 420.9 | 388.9 | 350.7 |
| 130°   | 455.3 | 466.9 | 474.4 | 477.2 | 474.4 | 466.9 | 455.3 | 436.3 | 411.6 | 380.0 | 343.2 |
| 132.5° | 444.2 | 457.3 | 464.3 | 467.2 | 464.3 | 457.3 | 444.2 | 425.4 | 400.8 | 369.9 | 335.4 |
| 135°   | 425.1 | 438.1 | 445.6 | 448.3 | 445.6 | 438.1 | 425.1 | 406.5 | 383.2 | 354.9 | 324.7 |
| 137.5° | 402.8 | 415.6 | 421.8 | 425.1 | 421.8 | 415.6 | 402.8 | 385.4 | 364.4 | 340.5 | 314.9 |
| 140°   | 387.9 | 398.1 | 404.6 | 408.4 | 404.6 | 398.1 | 387.9 | 371.6 | 352.0 | 331.2 | 309.2 |
| 142.5° | 372.6 | 382.1 | 387.9 | 390.4 | 387.9 | 382.1 | 372.6 | 358.2 | 341.3 | 323.3 | 304.1 |
| 145°   | 351.1 | 359.1 | 363.7 | 366.0 | 363.7 | 359.1 | 351.1 | 339.5 | 326.5 | 312.5 | 296.7 |
| 147.5° | 333.2 | 340.0 | 343.5 | 344.4 | 343.5 | 340.0 | 333.2 | 324.7 | 314.4 | 303.2 | 290.7 |
| 150°   | 322.8 | 328.8 | 331.6 | 332.1 | 331.6 | 328.8 | 322.8 | 315.4 | 307.0 | 297.7 | 287.0 |
| 152.5° | 313.8 | 318.8 | 320.4 | 320.9 | 320.4 | 318.8 | 313.8 | 307.5 | 300.6 | 292.0 | 282.8 |
| 155°   | 301.4 | 305.1 | 306.5 | 306.5 | 306.5 | 305.1 | 301.4 | 296.7 | 291.1 | 284.1 | 276.7 |
| 157.5° | 290.2 | 293.0 | 293.8 | 293.8 | 293.8 | 293.0 | 290.2 | 286.7 | 282.2 | 276.4 | 270.1 |
| 160°   | 282.7 | 285.6 | 286.0 | 286.0 | 286.0 | 285.6 | 282.7 | 280.0 | 276.2 | 271.2 | 266.0 |
| 162.5° | 275.7 | 278.5 | 279.0 | 278.6 | 279.0 | 278.5 | 275.7 | 273.7 | 270.3 | 266.3 | 262.0 |
| 165°   | 266.5 | 268.3 | 267.9 | 267.4 | 267.9 | 268.3 | 266.5 | 264.6 | 262.3 | 259.0 | 256.2 |
| 167.5° | 257.9 | 259.0 | 258.9 | 258.6 | 258.9 | 259.0 | 257.9 | 256.9 | 255.5 | 252.9 | 250.8 |
| 170°   | 253.0 | 253.5 | 253.0 | 253.0 | 253.0 | 253.5 | 253.0 | 252.1 | 250.7 | 248.8 | 247.4 |
| 172.5° | 248.2 | 248.7 | 248.2 | 247.4 | 248.2 | 248.7 | 248.2 | 247.6 | 246.6 | 245.5 | 244.4 |
| 175°   | 241.8 | 242.8 | 241.8 | 240.9 | 241.8 | 242.8 | 241.8 | 241.8 | 241.8 | 240.9 | 240.4 |
| 177.5° | 238.2 | 238.6 | 237.8 | 237.1 | 237.8 | 238.6 | 238.2 | 238.6 | 238.2 | 238.2 | 237.8 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |



TEST NUMBER: P332501-930

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**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 445.2 | 445.9 | 448.3 | 450.7 | 453.5 | 455.4 | 456.8 | 458.4 | 461.6 | 464.2 | 466.8 |
| 5°     | 417.2 | 418.2 | 423.1 | 426.6 | 432.6 | 437.8 | 441.9 | 446.3 | 451.5 | 458.7 | 465.2 |
| 7.5°   | 392.4 | 396.0 | 401.5 | 407.2 | 413.2 | 420.0 | 426.0 | 432.7 | 441.6 | 451.5 | 461.6 |
| 10°    | 378.4 | 382.5 | 388.2 | 394.8 | 400.6 | 408.5 | 415.8 | 423.7 | 434.0 | 445.9 | 457.9 |
| 12.5°  | 364.4 | 371.0 | 375.4 | 383.2 | 389.5 | 396.0 | 403.8 | 414.2 | 426.1 | 438.6 | 453.1 |
| 15°    | 346.7 | 350.4 | 358.9 | 363.1 | 372.0 | 382.0 | 389.8 | 400.1 | 411.7 | 428.4 | 444.6 |
| 17.5°  | 326.4 | 331.3 | 338.0 | 346.1 | 356.3 | 364.1 | 373.7 | 384.5 | 399.1 | 415.6 | 435.9 |
| 20°    | 313.2 | 317.2 | 325.5 | 334.4 | 345.2 | 353.5 | 363.7 | 374.1 | 389.2 | 406.8 | 428.0 |
| 22.5°  | 301.3 | 305.2 | 314.0 | 322.2 | 332.7 | 342.8 | 353.5 | 365.7 | 380.1 | 398.6 | 420.3 |
| 25°    | 282.9 | 288.0 | 295.8 | 304.3 | 314.3 | 325.9 | 337.5 | 348.3 | 363.7 | 383.2 | 406.3 |
| 27.5°  | 266.5 | 270.7 | 276.3 | 285.9 | 297.3 | 308.5 | 320.0 | 333.6 | 348.5 | 369.1 | 393.1 |
| 30°    | 256.1 | 259.9 | 265.5 | 274.3 | 285.0 | 296.9 | 308.9 | 322.0 | 337.5 | 357.9 | 382.5 |
| 32.5°  | 247.7 | 250.6 | 255.6 | 263.6 | 273.3 | 285.8 | 297.7 | 311.2 | 327.4 | 347.6 | 371.5 |
| 35°    | 235.4 | 237.9 | 239.9 | 247.4 | 256.1 | 267.7 | 279.6 | 294.1 | 309.7 | 328.8 | 352.7 |
| 37.5°  | 223.3 | 224.2 | 227.0 | 232.0 | 240.4 | 251.0 | 262.1 | 276.4 | 292.4 | 311.8 | 333.4 |
| 40°    | 215.9 | 216.3 | 218.0 | 222.7 | 230.0 | 240.0 | 250.9 | 264.9 | 280.1 | 298.5 | 319.9 |
| 42.5°  | 208.6 | 208.4 | 210.0 | 213.3 | 220.1 | 229.3 | 239.9 | 252.7 | 268.0 | 284.9 | 305.1 |
| 45°    | 197.2 | 197.2 | 196.8 | 199.5 | 205.1 | 214.0 | 222.9 | 235.2 | 247.9 | 264.6 | 281.5 |
| 47.5°  | 185.2 | 184.2 | 184.5 | 185.9 | 190.6 | 197.9 | 206.8 | 217.0 | 228.2 | 242.2 | 257.1 |
| 50°    | 177.5 | 175.9 | 175.4 | 176.9 | 181.2 | 187.5 | 196.1 | 204.9 | 215.6 | 227.9 | 240.6 |
| 52.5°  | 169.0 | 167.5 | 166.4 | 167.5 | 171.5 | 177.3 | 185.1 | 192.9 | 202.4 | 212.5 | 223.5 |
| 55°    | 155.9 | 154.2 | 153.6 | 154.0 | 156.9 | 161.5 | 168.0 | 175.2 | 182.4 | 190.6 | 198.4 |
| 57.5°  | 143.0 | 140.1 | 139.6 | 139.4 | 141.4 | 145.6 | 151.2 | 157.3 | 162.5 | 167.5 | 175.8 |
| 60°    | 134.5 | 131.0 | 129.9 | 129.6 | 131.2 | 134.7 | 139.7 | 145.9 | 149.5 | 153.0 | 160.1 |
| 62.5°  | 125.4 | 122.1 | 119.5 | 119.8 | 121.2 | 124.5 | 128.9 | 133.4 | 135.8 | 139.6 | 144.4 |
| 65°    | 111.4 | 107.1 | 105.2 | 104.6 | 105.3 | 108.0 | 111.5 | 114.4 | 117.2 | 118.7 | 123.3 |
| 67.5°  | 97.3  | 93.8  | 90.9  | 90.2  | 89.8  | 91.7  | 94.6  | 96.3  | 98.2  | 99.5  | 102.3 |
| 70°    | 87.4  | 84.3  | 80.9  | 79.7  | 79.5  | 81.0  | 83.7  | 84.0  | 86.7  | 87.2  | 90.1  |
| 72.5°  | 77.7  | 73.8  | 71.4  | 70.3  | 69.5  | 70.8  | 72.6  | 73.1  | 74.6  | 75.7  | 77.1  |
| 75°    | 62.5  | 59.6  | 57.3  | 55.6  | 55.0  | 55.8  | 55.8  | 56.7  | 57.7  | 58.3  | 60.0  |
| 77.5°  | 49.2  | 45.9  | 43.1  | 42.2  | 41.4  | 40.9  | 41.3  | 42.0  | 41.5  | 42.5  | 42.9  |
| 80°    | 39.9  | 36.4  | 34.3  | 34.0  | 32.8  | 31.9  | 31.6  | 32.2  | 31.5  | 31.9  | 33.0  |
| 82.5°  | 30.8  | 28.6  | 26.3  | 25.9  | 24.5  | 24.0  | 23.8  | 23.4  | 23.4  | 23.3  | 23.6  |
| 85°    | 18.3  | 17.0  | 15.4  | 14.5  | 13.9  | 13.0  | 13.0  | 12.6  | 12.1  | 11.7  | 12.0  |
| 87.5°  | 9.0   | 8.8   | 7.8   | 7.2   | 6.8   | 5.7   | 5.7   | 5.1   | 4.9   | 4.5   | 4.1   |
| 90°    | 7.9   | 8.4   | 7.4   | 6.5   | 6.5   | 3.8   | 3.8   | 3.3   | 2.8   | 1.4   | 0.5   |
| 92.5°  | 122.9 | 147.5 | 129.1 | 93.9  | 57.9  | 34.2  | 24.5  | 17.8  | 12.1  | 7.7   | 5.3   |
| 95°    | 389.7 | 379.0 | 286.0 | 174.9 | 98.6  | 58.1  | 38.6  | 27.5  | 21.4  | 16.7  | 15.3  |
| 97.5°  | 489.7 | 399.3 | 267.7 | 157.2 | 94.2  | 63.1  | 46.7  | 37.1  | 31.6  | 27.6  | 27.6  |
| 100°   | 493.0 | 373.9 | 242.8 | 147.9 | 95.3  | 67.9  | 53.0  | 44.2  | 38.6  | 35.4  | 35.4  |
| 102.5° | 465.0 | 342.3 | 226.0 | 145.3 | 99.1  | 74.2  | 60.1  | 51.6  | 46.4  | 43.5  | 42.8  |
| 105°   | 414.4 | 305.1 | 211.7 | 146.5 | 107.9 | 85.6  | 72.1  | 63.8  | 58.1  | 55.8  | 54.4  |
| 107.5° | 373.5 | 284.3 | 209.0 | 153.4 | 118.2 | 97.8  | 84.5  | 76.5  | 70.5  | 68.2  | 67.3  |
| 110°   | 353.0 | 277.2 | 209.8 | 158.6 | 126.0 | 105.6 | 93.0  | 84.6  | 79.1  | 76.7  | 75.8  |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 341.4 | 273.9 | 212.0 | 164.2 | 133.5 | 113.7 | 101.2 | 92.9  | 87.6  | 85.0  | 84.0  |
| 115°   | 330.7 | 272.1 | 216.3 | 173.0 | 145.1 | 126.5 | 114.0 | 105.1 | 100.4 | 97.2  | 95.8  |
| 117.5° | 325.9 | 271.6 | 220.8 | 182.1 | 156.4 | 138.7 | 125.6 | 117.4 | 112.3 | 109.4 | 108.1 |
| 120°   | 323.3 | 271.6 | 224.2 | 188.3 | 164.2 | 146.5 | 133.5 | 125.6 | 120.4 | 117.2 | 116.3 |
| 122.5° | 320.2 | 271.3 | 227.6 | 194.3 | 171.6 | 153.9 | 141.3 | 132.6 | 127.9 | 124.7 | 123.7 |
| 125°   | 315.4 | 270.7 | 232.5 | 203.3 | 181.8 | 165.1 | 152.1 | 143.2 | 138.1 | 135.3 | 133.5 |
| 127.5° | 308.8 | 269.6 | 236.5 | 211.0 | 191.4 | 175.1 | 162.0 | 152.8 | 147.0 | 143.7 | 142.1 |
| 130°   | 304.6 | 269.3 | 239.5 | 215.8 | 197.6 | 181.8 | 168.4 | 159.6 | 152.5 | 148.8 | 147.0 |
| 132.5° | 300.9 | 268.9 | 242.1 | 220.6 | 202.8 | 187.0 | 174.3 | 164.8 | 158.2 | 153.3 | 151.8 |
| 135°   | 295.3 | 268.3 | 246.1 | 227.0 | 210.2 | 194.9 | 182.8 | 173.0 | 165.1 | 160.5 | 158.6 |
| 137.5° | 290.5 | 268.2 | 248.3 | 231.5 | 215.8 | 201.5 | 190.0 | 179.8 | 172.3 | 167.1 | 165.4 |
| 140°   | 287.9 | 267.9 | 250.2 | 234.4 | 219.6 | 205.5 | 194.4 | 184.7 | 176.8 | 171.6 | 170.2 |
| 142.5° | 285.7 | 267.9 | 251.7 | 236.6 | 222.9 | 209.3 | 198.5 | 189.1 | 181.6 | 176.8 | 175.5 |
| 145°   | 281.8 | 266.9 | 252.6 | 239.0 | 226.5 | 214.4 | 204.2 | 195.3 | 188.8 | 184.2 | 182.8 |
| 147.5° | 278.4 | 265.3 | 253.0 | 241.2 | 230.2 | 218.9 | 209.7 | 202.3 | 195.6 | 191.5 | 191.0 |
| 150°   | 275.8 | 264.2 | 253.0 | 242.3 | 232.1 | 221.8 | 213.0 | 206.0 | 200.5 | 196.7 | 196.2 |
| 152.5° | 272.8 | 262.3 | 252.3 | 243.0 | 233.6 | 224.5 | 216.4 | 210.1 | 204.9 | 201.2 | 201.1 |
| 155°   | 268.3 | 259.5 | 251.1 | 243.7 | 235.8 | 227.9 | 220.9 | 215.8 | 211.2 | 208.4 | 207.9 |
| 157.5° | 263.8 | 256.7 | 250.0 | 243.7 | 237.4 | 230.6 | 225.2 | 220.7 | 217.1 | 214.5 | 214.5 |
| 160°   | 260.5 | 254.4 | 248.8 | 243.7 | 238.1 | 232.5 | 227.4 | 223.7 | 220.5 | 218.6 | 218.6 |
| 162.5° | 257.5 | 252.2 | 247.7 | 243.7 | 238.9 | 233.7 | 229.7 | 226.3 | 223.4 | 221.9 | 222.3 |
| 165°   | 252.6 | 248.8 | 245.6 | 242.8 | 239.0 | 234.9 | 232.1 | 229.8 | 227.4 | 226.5 | 226.5 |
| 167.5° | 248.1 | 245.5 | 243.4 | 241.7 | 239.0 | 235.9 | 233.7 | 232.4 | 230.6 | 230.2 | 230.6 |
| 170°   | 245.1 | 243.2 | 241.8 | 240.9 | 238.6 | 236.3 | 234.9 | 233.9 | 232.5 | 232.1 | 232.5 |
| 172.5° | 242.5 | 241.0 | 240.4 | 240.2 | 238.2 | 236.6 | 235.6 | 235.1 | 234.0 | 233.9 | 234.4 |
| 175°   | 239.5 | 238.6 | 238.6 | 239.0 | 237.7 | 236.8 | 236.8 | 236.3 | 235.8 | 235.8 | 236.3 |
| 177.5° | 237.5 | 237.1 | 237.1 | 237.8 | 237.1 | 236.8 | 236.8 | 236.8 | 236.4 | 236.8 | 237.1 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 468.9 | 470.4 | 472.5 | 475.8 | 477.0 | 478.6 | 480.8 | 480.6 | 481.2 | 483.6 | 488.4 |
| 5°     | 470.6 | 476.6 | 482.4 | 489.3 | 496.7 | 501.5 | 508.0 | 512.1 | 516.2 | 521.4 | 530.3 |
| 7.5°   | 471.3 | 480.8 | 491.4 | 503.6 | 514.5 | 526.9 | 536.7 | 545.9 | 554.2 | 565.2 | 575.8 |
| 10°    | 470.3 | 483.0 | 496.7 | 512.1 | 528.5 | 542.4 | 555.0 | 569.2 | 581.4 | 594.7 | 606.7 |
| 12.5°  | 468.2 | 483.6 | 501.9 | 519.2 | 538.3 | 558.9 | 574.5 | 589.0 | 605.1 | 620.4 | 639.0 |
| 15°    | 463.7 | 484.7 | 506.1 | 528.9 | 554.6 | 578.3 | 600.9 | 619.5 | 636.9 | 659.9 | 684.0 |
| 17.5°  | 457.9 | 480.5 | 507.6 | 535.2 | 562.0 | 589.1 | 617.0 | 645.1 | 667.1 | 695.6 | 714.4 |
| 20°    | 452.5 | 478.7 | 506.5 | 539.3 | 566.1 | 599.9 | 627.7 | 654.8 | 685.0 | 713.4 | 736.0 |
| 22.5°  | 444.9 | 473.6 | 503.1 | 535.7 | 571.0 | 604.9 | 636.9 | 666.4 | 696.6 | 727.4 | 754.7 |
| 25°    | 435.3 | 461.4 | 496.3 | 533.3 | 568.4 | 605.1 | 642.0 | 679.0 | 711.4 | 744.0 | 769.5 |
| 27.5°  | 419.0 | 451.8 | 484.4 | 522.6 | 561.6 | 603.1 | 642.5 | 681.3 | 715.3 | 742.1 | 757.8 |
| 30°    | 410.6 | 439.2 | 474.5 | 512.9 | 555.1 | 599.7 | 640.8 | 678.8 | 710.5 | 731.9 | 738.3 |
| 32.5°  | 398.3 | 427.7 | 462.3 | 502.1 | 546.8 | 592.6 | 635.4 | 671.2 | 697.7 | 708.9 | 701.2 |
| 35°    | 379.9 | 406.6 | 441.5 | 482.2 | 528.7 | 577.5 | 619.8 | 650.0 | 663.6 | 653.0 | 626.6 |
| 37.5°  | 357.9 | 384.3 | 419.4 | 459.4 | 507.5 | 557.2 | 595.3 | 617.2 | 612.7 | 586.3 | 546.9 |
| 40°    | 342.5 | 367.2 | 400.6 | 443.8 | 490.6 | 540.5 | 574.1 | 585.8 | 573.5 | 535.7 | 493.7 |
| 42.5°  | 325.4 | 349.4 | 382.9 | 424.7 | 474.3 | 520.2 | 549.5 | 550.5 | 529.8 | 484.5 | 442.5 |
| 45°    | 299.3 | 322.2 | 353.8 | 397.3 | 443.2 | 486.4 | 505.7 | 496.3 | 458.0 | 414.5 | 372.2 |
| 47.5°  | 273.5 | 293.4 | 324.7 | 365.8 | 409.4 | 445.8 | 455.4 | 438.4 | 397.7 | 355.3 | 316.2 |
| 50°    | 254.7 | 274.8 | 304.1 | 343.5 | 385.6 | 416.9 | 421.6 | 399.0 | 359.1 | 316.4 | 285.8 |
| 52.5°  | 236.6 | 256.6 | 284.8 | 321.2 | 359.7 | 388.1 | 388.2 | 362.2 | 322.4 | 284.4 | 255.8 |
| 55°    | 210.1 | 228.0 | 253.6 | 286.2 | 320.5 | 342.7 | 337.3 | 310.3 | 275.7 | 242.7 | 217.8 |
| 57.5°  | 184.6 | 200.2 | 223.6 | 250.9 | 281.1 | 299.5 | 290.5 | 264.5 | 233.7 | 205.6 | 186.8 |
| 60°    | 168.0 | 183.0 | 203.0 | 228.7 | 254.1 | 268.4 | 259.9 | 236.4 | 208.0 | 185.4 | 169.0 |
| 62.5°  | 152.0 | 164.5 | 183.8 | 206.1 | 229.8 | 240.3 | 232.8 | 209.5 | 185.0 | 164.6 | 151.2 |
| 65°    | 129.3 | 139.5 | 154.9 | 174.1 | 191.2 | 200.3 | 194.0 | 172.3 | 153.6 | 138.9 | 128.3 |
| 67.5°  | 108.0 | 116.0 | 127.8 | 143.1 | 157.7 | 162.6 | 156.8 | 141.7 | 125.9 | 114.1 | 106.6 |
| 70°    | 93.4  | 100.9 | 110.7 | 122.5 | 135.3 | 140.5 | 134.7 | 122.7 | 109.8 | 99.0  | 91.6  |
| 72.5°  | 80.6  | 86.4  | 94.7  | 104.8 | 114.7 | 119.9 | 116.0 | 104.5 | 93.6  | 85.5  | 79.3  |
| 75°    | 61.4  | 66.4  | 72.2  | 79.3  | 87.0  | 90.5  | 87.0  | 79.1  | 71.6  | 65.6  | 61.1  |
| 77.5°  | 44.6  | 47.3  | 51.8  | 57.2  | 62.0  | 64.6  | 61.6  | 56.3  | 51.6  | 47.5  | 45.3  |
| 80°    | 34.0  | 35.9  | 39.0  | 43.2  | 46.5  | 49.0  | 47.0  | 42.6  | 39.0  | 36.3  | 35.3  |
| 82.5°  | 24.7  | 26.0  | 28.0  | 31.1  | 33.3  | 34.7  | 33.8  | 30.6  | 29.1  | 26.7  | 25.8  |
| 85°    | 12.1  | 13.0  | 14.3  | 15.2  | 17.2  | 17.4  | 17.5  | 16.2  | 14.8  | 14.3  | 13.5  |
| 87.5°  | 4.5   | 4.9   | 5.5   | 6.0   | 6.6   | 7.3   | 7.2   | 7.3   | 6.9   | 6.7   | 6.1   |
| 90°    | 1.4   | 2.8   | 3.3   | 3.8   | 3.8   | 6.5   | 6.5   | 7.4   | 8.4   | 7.9   | 8.4   |
| 92.5°  | 7.7   | 12.1  | 17.8  | 24.5  | 34.2  | 57.9  | 93.9  | 129.1 | 147.5 | 122.9 | 91.3  |
| 95°    | 16.7  | 21.4  | 27.5  | 38.6  | 58.1  | 98.6  | 174.9 | 286.0 | 379.0 | 389.7 | 344.6 |
| 97.5°  | 27.6  | 31.6  | 37.1  | 46.7  | 63.1  | 94.2  | 157.2 | 267.7 | 399.3 | 489.7 | 509.2 |
| 100°   | 35.4  | 38.6  | 44.2  | 53.0  | 67.9  | 95.3  | 147.9 | 242.8 | 373.9 | 493.0 | 560.9 |
| 102.5° | 43.5  | 46.4  | 51.6  | 60.1  | 74.2  | 99.1  | 145.3 | 226.0 | 342.3 | 465.0 | 558.3 |
| 105°   | 55.8  | 58.1  | 63.8  | 72.1  | 85.6  | 107.9 | 146.5 | 211.7 | 305.1 | 414.4 | 520.9 |
| 107.5° | 68.2  | 70.5  | 76.5  | 84.5  | 97.8  | 118.2 | 153.4 | 209.0 | 284.3 | 373.5 | 467.8 |
| 110°   | 76.7  | 79.1  | 84.6  | 93.0  | 105.6 | 126.0 | 158.6 | 209.8 | 277.2 | 353.0 | 435.8 |





TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 85.0  | 87.6  | 92.9  | 101.2 | 113.7 | 133.5 | 164.2 | 212.0 | 273.9 | 341.4 | 412.4 |
| 115°   | 97.2  | 100.4 | 105.1 | 114.0 | 126.5 | 145.1 | 173.0 | 216.3 | 272.1 | 330.7 | 388.8 |
| 117.5° | 109.4 | 112.3 | 117.4 | 125.6 | 138.7 | 156.4 | 182.1 | 220.8 | 271.6 | 325.9 | 377.2 |
| 120°   | 117.2 | 120.4 | 125.6 | 133.5 | 146.5 | 164.2 | 188.3 | 224.2 | 271.6 | 323.3 | 372.1 |
| 122.5° | 124.7 | 127.9 | 132.6 | 141.3 | 153.9 | 171.6 | 194.3 | 227.6 | 271.3 | 320.2 | 367.6 |
| 125°   | 135.3 | 138.1 | 143.2 | 152.1 | 165.1 | 181.8 | 203.3 | 232.5 | 270.7 | 315.4 | 360.0 |
| 127.5° | 143.7 | 147.0 | 152.8 | 162.0 | 175.1 | 191.4 | 211.0 | 236.5 | 269.6 | 308.8 | 350.7 |
| 130°   | 148.8 | 152.5 | 159.6 | 168.4 | 181.8 | 197.6 | 215.8 | 239.5 | 269.3 | 304.6 | 343.2 |
| 132.5° | 153.3 | 158.2 | 164.8 | 174.3 | 187.0 | 202.8 | 220.6 | 242.1 | 268.9 | 300.9 | 335.4 |
| 135°   | 160.5 | 165.1 | 173.0 | 182.8 | 194.9 | 210.2 | 227.0 | 246.1 | 268.3 | 295.3 | 324.7 |
| 137.5° | 167.1 | 172.3 | 179.8 | 190.0 | 201.5 | 215.8 | 231.5 | 248.3 | 268.2 | 290.5 | 314.9 |
| 140°   | 171.6 | 176.8 | 184.7 | 194.4 | 205.5 | 219.6 | 234.4 | 250.2 | 267.9 | 287.9 | 309.2 |
| 142.5° | 176.8 | 181.6 | 189.1 | 198.5 | 209.3 | 222.9 | 236.6 | 251.7 | 267.9 | 285.7 | 304.1 |
| 145°   | 184.2 | 188.8 | 195.3 | 204.2 | 214.4 | 226.5 | 239.0 | 252.6 | 266.9 | 281.8 | 296.7 |
| 147.5° | 191.5 | 195.6 | 202.3 | 209.7 | 218.9 | 230.2 | 241.2 | 253.0 | 265.3 | 278.4 | 290.7 |
| 150°   | 196.7 | 200.5 | 206.0 | 213.0 | 221.8 | 232.1 | 242.3 | 253.0 | 264.2 | 275.8 | 287.0 |
| 152.5° | 201.2 | 204.9 | 210.1 | 216.4 | 224.5 | 233.6 | 243.0 | 252.3 | 262.3 | 272.8 | 282.8 |
| 155°   | 208.4 | 211.2 | 215.8 | 220.9 | 227.9 | 235.8 | 243.7 | 251.1 | 259.5 | 268.3 | 276.7 |
| 157.5° | 214.5 | 217.1 | 220.7 | 225.2 | 230.6 | 237.4 | 243.7 | 250.0 | 256.7 | 263.8 | 270.1 |
| 160°   | 218.6 | 220.5 | 223.7 | 227.4 | 232.5 | 238.1 | 243.7 | 248.8 | 254.4 | 260.5 | 266.0 |
| 162.5° | 221.9 | 223.4 | 226.3 | 229.7 | 233.7 | 238.9 | 243.7 | 247.7 | 252.2 | 257.5 | 262.0 |
| 165°   | 226.5 | 227.4 | 229.8 | 232.1 | 234.9 | 239.0 | 242.8 | 245.6 | 248.8 | 252.6 | 256.2 |
| 167.5° | 230.2 | 230.6 | 232.4 | 233.7 | 235.9 | 239.0 | 241.7 | 243.4 | 245.5 | 248.1 | 250.8 |
| 170°   | 232.1 | 232.5 | 233.9 | 234.9 | 236.3 | 238.6 | 240.9 | 241.8 | 243.2 | 245.1 | 247.4 |
| 172.5° | 233.9 | 234.0 | 235.1 | 235.6 | 236.6 | 238.2 | 240.2 | 240.4 | 241.0 | 242.5 | 244.4 |
| 175°   | 235.8 | 235.8 | 236.3 | 236.8 | 236.8 | 237.7 | 239.0 | 238.6 | 238.6 | 239.5 | 240.4 |
| 177.5° | 236.8 | 236.4 | 236.8 | 236.8 | 236.8 | 237.1 | 237.8 | 237.1 | 237.1 | 237.5 | 237.8 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 | 465.8 |
| 2.5°   | 491.0 | 491.3 | 492.7 | 493.7 | 494.1 | 495.6 | 495.7 |
| 5°     | 534.1 | 537.4 | 543.7 | 544.3 | 545.3 | 550.3 | 546.4 |
| 7.5°   | 584.7 | 593.0 | 598.5 | 603.5 | 605.2 | 607.4 | 607.0 |
| 10°    | 617.1 | 629.4 | 635.6 | 645.5 | 645.8 | 648.3 | 646.8 |
| 12.5°  | 649.6 | 664.0 | 675.2 | 677.1 | 685.3 | 686.6 | 688.8 |
| 15°    | 695.8 | 711.0 | 726.7 | 732.3 | 743.6 | 746.3 | 750.6 |
| 17.5°  | 739.2 | 754.7 | 765.7 | 780.2 | 784.9 | 791.1 | 786.8 |
| 20°    | 763.0 | 779.9 | 793.9 | 805.2 | 810.0 | 813.5 | 813.1 |
| 22.5°  | 777.3 | 794.4 | 805.7 | 814.3 | 818.8 | 820.3 | 820.2 |
| 25°    | 786.3 | 796.1 | 799.6 | 802.9 | 797.9 | 796.1 | 796.9 |
| 27.5°  | 761.2 | 758.7 | 749.7 | 737.8 | 725.5 | 715.7 | 710.3 |
| 30°    | 726.8 | 711.8 | 698.1 | 674.2 | 661.9 | 654.5 | 647.9 |
| 32.5°  | 678.1 | 654.2 | 627.9 | 605.9 | 591.9 | 581.1 | 579.4 |
| 35°    | 594.5 | 558.6 | 526.4 | 499.5 | 485.7 | 473.9 | 471.2 |
| 37.5°  | 505.4 | 468.1 | 439.1 | 415.5 | 400.6 | 392.2 | 384.5 |
| 40°    | 446.3 | 414.3 | 385.7 | 365.7 | 354.2 | 348.3 | 343.5 |
| 42.5°  | 400.8 | 371.5 | 343.1 | 327.8 | 317.6 | 313.9 | 311.0 |
| 45°    | 337.9 | 310.6 | 291.0 | 279.4 | 273.5 | 267.3 | 264.3 |
| 47.5°  | 287.5 | 265.4 | 252.4 | 242.6 | 236.1 | 232.4 | 230.6 |
| 50°    | 258.9 | 240.8 | 229.3 | 221.7 | 215.9 | 213.0 | 211.5 |
| 52.5°  | 233.7 | 218.7 | 209.0 | 203.0 | 199.1 | 197.0 | 196.3 |
| 55°    | 201.2 | 189.9 | 183.7 | 178.5 | 175.6 | 173.7 | 172.9 |
| 57.5°  | 175.0 | 166.2 | 161.2 | 156.9 | 155.7 | 154.2 | 153.6 |
| 60°    | 157.7 | 150.9 | 146.7 | 143.7 | 142.8 | 140.9 | 141.2 |
| 62.5°  | 142.4 | 136.8 | 133.2 | 131.6 | 130.3 | 128.7 | 129.2 |
| 65°    | 120.4 | 116.3 | 114.4 | 112.9 | 111.4 | 110.4 | 111.1 |
| 67.5°  | 101.0 | 98.2  | 95.6  | 94.7  | 94.0  | 93.8  | 93.0  |
| 70°    | 88.4  | 86.1  | 83.7  | 83.2  | 83.2  | 82.4  | 82.2  |
| 72.5°  | 76.1  | 74.5  | 73.0  | 72.5  | 71.9  | 72.2  | 71.4  |
| 75°    | 58.9  | 57.5  | 56.9  | 56.3  | 56.2  | 56.2  | 55.6  |
| 77.5°  | 43.5  | 42.5  | 41.6  | 41.6  | 40.8  | 40.6  | 40.5  |
| 80°    | 33.0  | 32.6  | 31.9  | 31.9  | 31.5  | 31.6  | 31.2  |
| 82.5°  | 24.8  | 24.3  | 24.1  | 23.8  | 23.2  | 23.3  | 22.9  |
| 85°    | 13.3  | 12.7  | 12.6  | 12.0  | 11.6  | 12.0  | 11.6  |
| 87.5°  | 6.4   | 6.4   | 6.2   | 6.0   | 5.9   | 5.8   | 5.4   |
| 90°    | 8.8   | 9.3   | 9.3   | 9.8   | 10.2  | 9.8   | 9.8   |
| 92.5°  | 68.7  | 54.7  | 45.4  | 39.9  | 37.4  | 35.8  | 35.8  |
| 95°    | 272.6 | 210.2 | 165.1 | 142.4 | 127.9 | 119.5 | 113.5 |
| 97.5°  | 482.4 | 436.9 | 388.3 | 355.0 | 326.9 | 313.0 | 303.3 |
| 100°   | 570.2 | 547.4 | 513.0 | 472.5 | 444.2 | 430.2 | 426.5 |
| 102.5° | 604.5 | 611.1 | 596.7 | 571.9 | 551.3 | 536.6 | 533.6 |
| 105°   | 601.4 | 647.4 | 666.5 | 667.4 | 663.7 | 657.1 | 654.4 |
| 107.5° | 553.4 | 618.3 | 659.7 | 682.7 | 693.3 | 698.0 | 699.2 |
| 110°   | 516.2 | 583.7 | 634.9 | 667.9 | 687.4 | 695.8 | 699.9 |



TEST NUMBER: P332501-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 483.5 | 547.2 | 598.3 | 635.9 | 659.5 | 671.2 | 678.0 |
| 115°   | 446.1 | 500.4 | 545.1 | 581.8 | 609.8 | 624.6 | 628.4 |
| 117.5° | 424.6 | 467.4 | 505.2 | 536.6 | 560.0 | 575.1 | 578.0 |
| 120°   | 415.3 | 452.5 | 485.5 | 512.1 | 532.6 | 544.6 | 549.8 |
| 122.5° | 409.4 | 443.2 | 472.1 | 494.6 | 512.1 | 522.3 | 527.4 |
| 125°   | 400.0 | 432.0 | 457.6 | 476.2 | 489.8 | 498.6 | 501.3 |
| 127.5° | 388.9 | 420.9 | 445.2 | 463.9 | 475.9 | 483.3 | 486.1 |
| 130°   | 380.0 | 411.6 | 436.3 | 455.3 | 466.9 | 474.4 | 477.2 |
| 132.5° | 369.9 | 400.8 | 425.4 | 444.2 | 457.3 | 464.3 | 467.2 |
| 135°   | 354.9 | 383.2 | 406.5 | 425.1 | 438.1 | 445.6 | 448.3 |
| 137.5° | 340.5 | 364.4 | 385.4 | 402.8 | 415.6 | 421.8 | 425.1 |
| 140°   | 331.2 | 352.0 | 371.6 | 387.9 | 398.1 | 404.6 | 408.4 |
| 142.5° | 323.3 | 341.3 | 358.2 | 372.6 | 382.1 | 387.9 | 390.4 |
| 145°   | 312.5 | 326.5 | 339.5 | 351.1 | 359.1 | 363.7 | 366.0 |
| 147.5° | 303.2 | 314.4 | 324.7 | 333.2 | 340.0 | 343.5 | 344.4 |
| 150°   | 297.7 | 307.0 | 315.4 | 322.8 | 328.8 | 331.6 | 332.1 |
| 152.5° | 292.0 | 300.6 | 307.5 | 313.8 | 318.8 | 320.4 | 320.9 |
| 155°   | 284.1 | 291.1 | 296.7 | 301.4 | 305.1 | 306.5 | 306.5 |
| 157.5° | 276.4 | 282.2 | 286.7 | 290.2 | 293.0 | 293.8 | 293.8 |
| 160°   | 271.2 | 276.2 | 280.0 | 282.7 | 285.6 | 286.0 | 286.0 |
| 162.5° | 266.3 | 270.3 | 273.7 | 275.7 | 278.5 | 279.0 | 278.6 |
| 165°   | 259.0 | 262.3 | 264.6 | 266.5 | 268.3 | 267.9 | 267.4 |
| 167.5° | 252.9 | 255.5 | 256.9 | 257.9 | 259.0 | 258.9 | 258.6 |
| 170°   | 248.8 | 250.7 | 252.1 | 253.0 | 253.5 | 253.0 | 253.0 |
| 172.5° | 245.5 | 246.6 | 247.6 | 248.2 | 248.7 | 248.2 | 247.4 |
| 175°   | 240.9 | 241.8 | 241.8 | 241.8 | 242.8 | 241.8 | 240.9 |
| 177.5° | 238.2 | 238.2 | 238.6 | 238.2 | 238.6 | 237.8 | 237.1 |
| 180°   | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |

(END OF REPORT)