

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: P332508-830

Luminaire Tested: **SA4XXDIP-C350D810U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332508-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C350D810U830-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

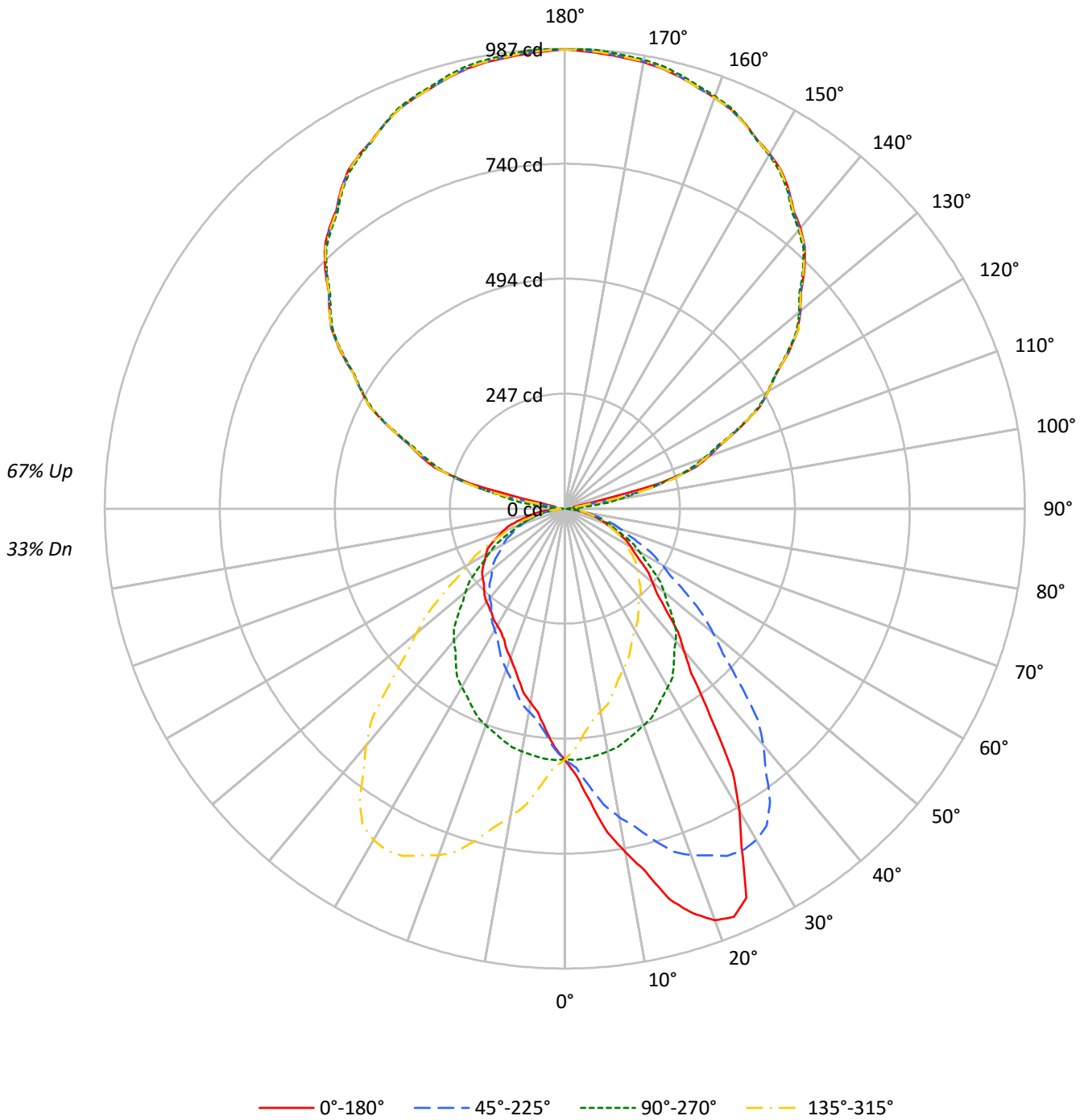
Lumens per Lamp: N/A  
Luminaire Lumens: 4536.5 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 31.2  
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: P332508-830  
CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

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

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4347 | 4347 | 4347 | 4347 |
| 5°  | 5119 | 4358 | 3847 | 4358 |
| 10° | 6129 | 4339 | 3463 | 4339 |
| 15° | 7252 | 4296 | 3181 | 4296 |
| 20° | 8076 | 4250 | 2928 | 4250 |
| 25° | 8206 | 4185 | 2754 | 4185 |
| 30° | 6982 | 4121 | 2699 | 4121 |
| 35° | 5368 | 4018 | 2699 | 4018 |
| 40° | 4185 | 3898 | 2751 | 3898 |
| 45° | 3489 | 3716 | 2797 | 3716 |
| 50° | 3071 | 3493 | 2891 | 3493 |
| 55° | 2814 | 3227 | 3008 | 3227 |
| 60° | 2635 | 2989 | 3147 | 2989 |
| 65° | 2455 | 2722 | 3265 | 2722 |
| 70° | 2242 | 2460 | 3338 | 2460 |
| 75° | 2006 | 2165 | 3300 | 2165 |
| 80° | 1678 | 1776 | 3194 | 1776 |
| 85° | 1241 | 1288 | 3057 | 1288 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.5   | 1.2       |
| 10°-20°   | 161.7  | 3.6       |
| 20°-30°   | 256.4  | 5.7       |
| 30°-40°   | 285.4  | 6.3       |
| 40°-50°   | 259.8  | 5.7       |
| 50°-60°   | 212.3  | 4.7       |
| 60°-70°   | 151.5  | 3.3       |
| 70°-80°   | 83.4   | 1.8       |
| 80°-90°   | 25.6   | 0.6       |
| 90°-100°  | 33.7   | 0.7       |
| 100°-110° | 214.9  | 4.7       |
| 110°-120° | 411.0  | 9.1       |
| 120°-130° | 521.8  | 11.5      |
| 130°-140° | 558.3  | 12.3      |
| 140°-150° | 522.1  | 11.5      |
| 150°-160° | 421.0  | 9.3       |
| 160°-170° | 271.5  | 6.0       |
| 170°-180° | 93.6   | 2.1       |
| 0°-30°    | 470.6  | 10.4      |
| 0°-40°    | 755.9  | 16.7      |
| 0°-60°    | 1227.9 | 27.1      |
| 0°-90°    | 1488.6 | 32.8      |
| 90°-120°  | 659.6  | 14.5      |
| 90°-150°  | 2261.8 | 49.9      |
| 90°-180°  | 3048.0 | 67.2      |
| 0°-180°   | 4536.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 538 | 538 | 538  | 538  | 538  |      |
| 5°   | 632 | 538 | 475  | 538  | 632  | 64   |
| 15°  | 868 | 514 | 381  | 514  | 868  | 245  |
| 25°  | 921 | 470 | 309  | 470  | 921  | 406  |
| 35°  | 545 | 408 | 274  | 408  | 545  | 346  |
| 45°  | 306 | 326 | 245  | 326  | 306  | 241  |
| 55°  | 200 | 229 | 214  | 229  | 200  | 181  |
| 65°  | 128 | 142 | 171  | 142  | 128  | 127  |
| 75°  | 64  | 69  | 106  | 69   | 64   | 68   |
| 85°  | 13  | 14  | 33   | 14   | 13   | 17   |
| 90°  | 22  | 2   | 22   | 2    | 22   | 10   |
| 95°  | 21  | 40  | 21   | 40   | 21   | 17   |
| 105° | 210 | 222 | 210  | 222  | 210  | 183  |
| 115° | 417 | 414 | 417  | 414  | 417  | 413  |
| 125° | 587 | 582 | 587  | 582  | 587  | 522  |
| 135° | 727 | 722 | 727  | 722  | 727  | 560  |
| 145° | 837 | 833 | 837  | 833  | 837  | 523  |
| 155° | 912 | 913 | 912  | 913  | 912  | 421  |
| 165° | 959 | 963 | 959  | 963  | 959  | 271  |
| 175° | 979 | 985 | 979  | 985  | 979  | 93   |
| 180° | 985 | 985 | 985  | 985  | 985  |      |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 573.1 | 573.0 | 571.2 | 570.8 | 569.6 | 568.0 | 567.6 | 564.7 | 559.0 | 556.3 | 555.6 |
| 5°     | 631.7 | 636.2 | 630.4 | 629.2 | 628.6 | 621.2 | 617.5 | 613.0 | 602.8 | 596.7 | 592.0 |
| 7.5°   | 701.7 | 702.2 | 699.6 | 697.7 | 691.9 | 685.5 | 675.9 | 665.6 | 653.4 | 640.7 | 631.1 |
| 10°    | 747.7 | 749.5 | 746.6 | 746.2 | 734.8 | 727.6 | 713.4 | 701.3 | 687.5 | 672.1 | 658.1 |
| 12.5°  | 796.3 | 793.8 | 792.3 | 782.8 | 780.6 | 767.6 | 751.0 | 738.7 | 717.3 | 699.6 | 680.9 |
| 15°    | 867.7 | 862.8 | 859.7 | 846.6 | 840.1 | 822.0 | 804.4 | 790.8 | 762.9 | 736.3 | 716.2 |
| 17.5°  | 909.6 | 914.5 | 907.4 | 901.9 | 885.2 | 872.5 | 854.5 | 826.0 | 804.2 | 771.2 | 745.8 |
| 20°    | 940.0 | 940.5 | 936.4 | 930.9 | 917.8 | 901.6 | 882.0 | 850.8 | 824.7 | 791.9 | 757.1 |
| 22.5°  | 948.2 | 948.3 | 946.6 | 941.4 | 931.4 | 918.4 | 898.6 | 872.5 | 840.9 | 805.3 | 770.4 |
| 25°    | 921.2 | 920.4 | 922.4 | 928.2 | 924.4 | 920.4 | 909.0 | 889.6 | 860.2 | 822.5 | 784.9 |
| 27.5°  | 821.1 | 827.4 | 838.7 | 852.9 | 866.7 | 877.1 | 880.1 | 876.1 | 857.9 | 826.9 | 787.6 |
| 30°    | 749.0 | 756.7 | 765.2 | 779.4 | 807.1 | 822.9 | 840.3 | 853.5 | 846.1 | 821.3 | 784.8 |
| 32.5°  | 669.9 | 671.8 | 684.3 | 700.5 | 725.9 | 756.3 | 783.9 | 810.7 | 819.5 | 806.5 | 776.0 |
| 35°    | 544.7 | 547.9 | 561.5 | 577.5 | 608.5 | 645.8 | 687.3 | 724.3 | 754.9 | 767.1 | 751.5 |
| 37.5°  | 444.5 | 453.5 | 463.1 | 480.3 | 507.7 | 541.2 | 584.3 | 632.3 | 677.8 | 708.3 | 713.5 |
| 40°    | 397.1 | 402.7 | 409.5 | 422.7 | 445.9 | 478.9 | 515.9 | 570.8 | 619.3 | 663.0 | 677.2 |
| 42.5°  | 359.6 | 362.9 | 367.1 | 379.0 | 396.6 | 429.5 | 463.4 | 511.6 | 560.2 | 612.5 | 636.4 |
| 45°    | 305.6 | 309.0 | 316.1 | 323.0 | 336.4 | 359.1 | 390.6 | 430.3 | 479.2 | 529.5 | 573.7 |
| 47.5°  | 266.6 | 268.7 | 273.0 | 280.4 | 291.8 | 306.8 | 332.3 | 365.5 | 410.8 | 459.8 | 506.8 |
| 50°    | 244.5 | 246.3 | 249.6 | 256.3 | 265.0 | 278.4 | 299.4 | 330.4 | 365.8 | 415.1 | 461.3 |
| 52.5°  | 227.0 | 227.7 | 230.2 | 234.7 | 241.7 | 252.9 | 270.1 | 295.8 | 328.8 | 372.7 | 418.7 |
| 55°    | 199.9 | 200.8 | 203.0 | 206.3 | 212.4 | 219.5 | 232.6 | 251.8 | 280.6 | 318.8 | 358.7 |
| 57.5°  | 177.6 | 178.2 | 180.0 | 181.3 | 186.3 | 192.1 | 202.3 | 215.9 | 237.7 | 270.1 | 305.8 |
| 60°    | 163.2 | 162.9 | 165.0 | 166.2 | 169.6 | 174.5 | 182.3 | 195.4 | 214.3 | 240.4 | 273.2 |
| 62.5°  | 149.4 | 148.7 | 150.6 | 152.1 | 154.0 | 158.2 | 164.6 | 174.8 | 190.3 | 213.9 | 242.2 |
| 65°    | 128.5 | 127.6 | 128.8 | 130.5 | 132.2 | 134.5 | 139.2 | 148.4 | 160.6 | 177.6 | 199.2 |
| 67.5°  | 107.5 | 108.5 | 108.7 | 109.5 | 110.6 | 113.6 | 116.8 | 123.3 | 132.0 | 145.5 | 163.8 |
| 70°    | 95.0  | 95.3  | 96.1  | 96.1  | 96.8  | 99.5  | 102.2 | 105.9 | 114.4 | 127.0 | 141.9 |
| 72.5°  | 82.6  | 83.5  | 83.1  | 83.8  | 84.4  | 86.1  | 88.0  | 91.7  | 98.9  | 108.2 | 120.8 |
| 75°    | 64.3  | 64.9  | 64.9  | 65.1  | 65.8  | 66.4  | 68.1  | 70.7  | 75.9  | 82.8  | 91.4  |
| 77.5°  | 46.8  | 46.9  | 47.2  | 48.1  | 48.1  | 49.1  | 50.2  | 52.4  | 55.0  | 59.7  | 65.0  |
| 80°    | 36.1  | 36.6  | 36.4  | 36.9  | 36.9  | 37.7  | 38.2  | 40.8  | 41.9  | 45.1  | 49.3  |
| 82.5°  | 26.5  | 27.0  | 26.9  | 27.5  | 27.9  | 28.1  | 28.7  | 29.8  | 30.9  | 33.6  | 35.3  |
| 85°    | 13.4  | 13.9  | 13.4  | 13.9  | 14.5  | 14.7  | 15.4  | 15.6  | 16.5  | 17.2  | 18.8  |
| 87.5°  | 8.4   | 8.9   | 8.8   | 8.9   | 9.1   | 9.2   | 9.1   | 8.8   | 9.3   | 9.3   | 9.8   |
| 90°    | 22.1  | 21.8  | 21.5  | 21.1  | 20.8  | 20.2  | 19.1  | 18.2  | 17.2  | 16.2  | 14.9  |
| 92.5°  | 20.4  | 20.3  | 20.2  | 20.2  | 20.1  | 19.5  | 18.6  | 17.6  | 16.6  | 15.6  | 14.3  |
| 95°    | 21.4  | 21.2  | 21.0  | 20.9  | 20.7  | 20.2  | 19.1  | 18.2  | 17.2  | 16.2  | 16.0  |
| 97.5°  | 20.6  | 20.5  | 20.3  | 20.2  | 20.0  | 19.9  | 19.8  | 19.7  | 19.5  | 19.4  | 37.7  |
| 100°   | 20.6  | 20.5  | 20.3  | 20.2  | 20.0  | 21.3  | 24.0  | 26.9  | 29.6  | 32.4  | 55.0  |
| 102.5° | 21.2  | 21.2  | 21.1  | 21.1  | 21.1  | 36.1  | 66.2  | 96.1  | 126.2 | 156.3 | 159.2 |
| 105°   | 210.0 | 215.9 | 221.8 | 227.7 | 233.7 | 235.8 | 234.3 | 232.9 | 231.4 | 229.9 | 229.1 |
| 107.5° | 292.8 | 292.1 | 291.4 | 290.9 | 290.2 | 289.5 | 288.8 | 288.1 | 287.4 | 286.7 | 285.6 |
| 110°   | 328.7 | 328.2 | 327.7 | 327.3 | 326.7 | 326.3 | 326.0 | 325.6 | 325.4 | 325.0 | 324.0 |



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CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 364.7 | 364.0 | 363.4 | 362.8 | 362.1 | 361.8 | 361.9 | 362.0 | 362.1 | 362.1 | 361.7 |
| 115°   | 417.2 | 417.2 | 417.2 | 417.2 | 417.2 | 417.0 | 416.6 | 416.3 | 415.9 | 415.7 | 415.8 |
| 117.5° | 470.5 | 470.5 | 470.6 | 470.7 | 470.7 | 470.8 | 470.9 | 470.9 | 471.0 | 471.1 | 470.7 |
| 120°   | 504.1 | 504.4 | 504.7 | 505.1 | 505.4 | 505.4 | 505.1 | 504.7 | 504.4 | 504.1 | 504.3 |
| 122.5° | 537.1 | 537.4 | 537.7 | 538.1 | 538.4 | 538.5 | 538.3 | 538.1 | 537.9 | 537.7 | 537.4 |
| 125°   | 586.6 | 586.4 | 586.3 | 586.2 | 586.0 | 585.6 | 585.1 | 584.7 | 584.2 | 583.7 | 584.0 |
| 127.5° | 630.1 | 630.3 | 630.4 | 630.5 | 630.7 | 630.7 | 630.8 | 630.9 | 631.0 | 631.1 | 630.4 |
| 130°   | 659.6 | 659.6 | 659.6 | 659.6 | 659.6 | 659.5 | 659.3 | 659.2 | 659.0 | 658.8 | 658.4 |
| 132.5° | 686.7 | 686.8 | 686.9 | 687.1 | 687.2 | 687.2 | 687.0 | 686.9 | 686.7 | 686.5 | 685.9 |
| 135°   | 727.4 | 727.1 | 726.7 | 726.4 | 726.0 | 725.8 | 725.4 | 725.1 | 724.7 | 724.4 | 723.8 |
| 137.5° | 762.1 | 762.2 | 762.3 | 762.4 | 762.5 | 762.4 | 762.0 | 761.7 | 761.4 | 761.0 | 760.3 |
| 140°   | 786.4 | 786.2 | 786.0 | 785.9 | 785.7 | 785.3 | 784.9 | 784.4 | 783.9 | 783.3 | 783.1 |
| 142.5° | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.1 | 805.7 | 805.3 | 805.0 | 804.6 | 804.5 |
| 145°   | 837.2 | 836.9 | 836.5 | 836.2 | 835.8 | 835.7 | 835.5 | 835.3 | 835.2 | 835.0 | 835.0 |
| 147.5° | 862.7 | 862.5 | 862.3 | 862.2 | 862.0 | 861.9 | 861.8 | 861.7 | 861.5 | 861.4 | 861.5 |
| 150°   | 879.2 | 879.0 | 878.8 | 878.7 | 878.5 | 878.4 | 878.4 | 878.4 | 878.4 | 878.4 | 878.6 |
| 152.5° | 893.3 | 893.4 | 893.5 | 893.6 | 893.7 | 893.6 | 893.4 | 893.2 | 892.9 | 892.6 | 892.9 |
| 155°   | 912.4 | 912.9 | 913.3 | 913.8 | 914.4 | 914.3 | 913.6 | 912.9 | 912.3 | 911.6 | 912.1 |
| 157.5° | 928.3 | 929.2 | 930.0 | 930.9 | 931.7 | 931.7 | 930.9 | 930.0 | 929.2 | 928.3 | 928.9 |
| 160°   | 938.9 | 939.9 | 940.8 | 941.9 | 942.8 | 942.8 | 941.9 | 940.8 | 939.9 | 938.9 | 939.1 |
| 162.5° | 947.2 | 948.3 | 949.3 | 950.5 | 951.6 | 951.7 | 950.6 | 949.7 | 948.8 | 947.7 | 947.9 |
| 165°   | 958.8 | 960.3 | 961.8 | 963.2 | 964.7 | 964.8 | 963.5 | 962.1 | 960.8 | 959.5 | 959.5 |
| 167.5° | 967.5 | 969.1 | 970.7 | 972.4 | 974.0 | 974.1 | 972.7 | 971.3 | 969.8 | 968.4 | 968.5 |
| 170°   | 972.8 | 974.4 | 976.1 | 977.7 | 979.3 | 979.5 | 978.2 | 976.9 | 975.5 | 974.3 | 974.1 |
| 172.5° | 975.7 | 977.5 | 979.3 | 981.1 | 982.8 | 983.1 | 981.8 | 980.4 | 979.1 | 977.8 | 977.6 |
| 175°   | 979.4 | 981.4 | 983.4 | 985.3 | 987.3 | 987.5 | 986.1 | 984.6 | 983.1 | 981.7 | 981.5 |
| 177.5° | 981.8 | 983.4 | 985.0 | 986.5 | 988.1 | 988.4 | 987.3 | 986.3 | 985.1 | 984.1 | 983.9 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |



TEST NUMBER: P332508-830  
 CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 555.8 | 553.3 | 551.5 | 550.1 | 546.2 | 543.8 | 542.1 | 539.6 | 536.7 | 533.7 | 529.9 |
| 5°     | 587.3 | 579.8 | 574.2 | 565.7 | 557.7 | 551.0 | 544.0 | 537.8 | 530.3 | 522.0 | 515.9 |
| 7.5°   | 620.5 | 609.2 | 594.7 | 582.2 | 568.1 | 555.8 | 544.9 | 533.7 | 522.0 | 510.6 | 500.2 |
| 10°    | 641.6 | 627.1 | 611.0 | 592.0 | 574.2 | 558.4 | 543.7 | 529.3 | 515.5 | 501.7 | 489.8 |
| 12.5°  | 664.2 | 646.1 | 622.4 | 600.2 | 580.2 | 559.0 | 541.3 | 523.8 | 507.1 | 492.6 | 478.8 |
| 15°    | 694.7 | 668.5 | 641.1 | 611.4 | 585.1 | 560.3 | 536.0 | 514.0 | 495.2 | 476.0 | 462.6 |
| 17.5°  | 713.3 | 681.0 | 649.7 | 618.7 | 586.8 | 555.5 | 529.3 | 503.9 | 480.4 | 461.4 | 444.5 |
| 20°    | 725.7 | 693.5 | 654.5 | 623.5 | 585.6 | 553.5 | 523.1 | 494.7 | 470.2 | 450.0 | 432.5 |
| 22.5°  | 736.3 | 699.3 | 660.2 | 619.3 | 581.6 | 547.5 | 514.3 | 485.9 | 460.8 | 439.4 | 422.7 |
| 25°    | 742.2 | 699.6 | 657.1 | 616.5 | 573.7 | 533.4 | 503.2 | 469.8 | 443.0 | 420.5 | 402.7 |
| 27.5°  | 742.8 | 697.2 | 649.2 | 604.2 | 560.0 | 522.4 | 484.4 | 454.4 | 426.7 | 402.8 | 385.7 |
| 30°    | 740.8 | 693.3 | 641.8 | 593.0 | 548.6 | 507.7 | 474.7 | 442.1 | 413.8 | 390.1 | 372.3 |
| 32.5°  | 734.5 | 685.1 | 632.2 | 580.4 | 534.4 | 494.5 | 460.4 | 429.4 | 401.8 | 378.5 | 359.8 |
| 35°    | 716.5 | 667.6 | 611.2 | 557.4 | 510.4 | 470.0 | 439.2 | 407.7 | 380.1 | 358.1 | 340.0 |
| 37.5°  | 688.2 | 644.1 | 586.7 | 531.1 | 484.8 | 444.3 | 413.8 | 385.4 | 360.4 | 338.0 | 319.5 |
| 40°    | 663.6 | 624.8 | 567.2 | 513.0 | 463.1 | 424.5 | 396.0 | 369.9 | 345.1 | 323.9 | 306.2 |
| 42.5°  | 635.3 | 601.4 | 548.4 | 491.0 | 442.7 | 404.0 | 376.2 | 352.7 | 329.4 | 309.8 | 292.2 |
| 45°    | 584.7 | 562.3 | 512.4 | 459.3 | 409.1 | 372.5 | 346.0 | 325.5 | 305.9 | 286.6 | 271.9 |
| 47.5°  | 526.5 | 515.4 | 473.3 | 422.9 | 375.3 | 339.2 | 316.2 | 297.3 | 280.0 | 263.8 | 250.8 |
| 50°    | 487.4 | 482.0 | 445.7 | 397.1 | 351.6 | 317.6 | 294.5 | 278.1 | 263.4 | 249.2 | 236.9 |
| 52.5°  | 448.8 | 448.7 | 415.8 | 371.4 | 329.2 | 296.6 | 273.5 | 258.4 | 245.6 | 234.0 | 223.0 |
| 55°    | 389.9 | 396.2 | 370.5 | 330.8 | 293.1 | 263.6 | 242.9 | 229.3 | 220.4 | 210.8 | 202.6 |
| 57.5°  | 335.8 | 346.2 | 325.0 | 290.0 | 258.5 | 231.5 | 213.4 | 203.2 | 193.7 | 187.8 | 181.8 |
| 60°    | 300.5 | 310.3 | 293.8 | 264.4 | 234.7 | 211.5 | 194.3 | 185.1 | 176.9 | 172.9 | 168.6 |
| 62.5°  | 269.1 | 277.8 | 265.6 | 238.3 | 212.5 | 190.2 | 175.7 | 166.9 | 161.4 | 157.0 | 154.2 |
| 65°    | 224.2 | 231.6 | 221.0 | 201.2 | 179.1 | 161.3 | 149.5 | 142.5 | 137.2 | 135.4 | 132.2 |
| 67.5°  | 181.3 | 187.9 | 182.3 | 165.4 | 147.7 | 134.1 | 124.9 | 118.3 | 115.1 | 113.6 | 111.3 |
| 70°    | 155.7 | 162.4 | 156.4 | 141.7 | 128.0 | 116.7 | 107.9 | 104.2 | 100.9 | 100.2 | 97.1  |
| 72.5°  | 134.1 | 138.6 | 132.6 | 121.1 | 109.5 | 99.9  | 93.1  | 89.2  | 87.5  | 86.2  | 84.5  |
| 75°    | 100.6 | 104.6 | 100.6 | 91.7  | 83.4  | 76.7  | 71.0  | 69.4  | 67.4  | 66.7  | 65.6  |
| 77.5°  | 71.2  | 74.6  | 71.6  | 66.1  | 59.9  | 54.7  | 51.6  | 49.6  | 49.1  | 48.0  | 48.5  |
| 80°    | 54.4  | 56.6  | 53.7  | 50.0  | 45.1  | 41.5  | 39.3  | 38.2  | 36.9  | 36.4  | 37.2  |
| 82.5°  | 39.1  | 40.1  | 38.5  | 36.0  | 32.4  | 30.1  | 28.6  | 27.2  | 27.0  | 27.1  | 27.1  |
| 85°    | 20.3  | 20.1  | 19.9  | 17.6  | 16.5  | 15.0  | 14.0  | 13.9  | 13.6  | 14.0  | 14.5  |
| 87.5°  | 9.5   | 9.4   | 9.0   | 7.9   | 7.1   | 6.1   | 5.7   | 5.1   | 5.7   | 6.1   | 6.7   |
| 90°    | 13.6  | 12.3  | 10.9  | 9.4   | 7.6   | 5.8   | 4.1   | 2.2   | 4.1   | 5.8   | 7.6   |
| 92.5°  | 13.0  | 11.7  | 10.4  | 9.7   | 9.6   | 9.5   | 9.4   | 9.3   | 9.4   | 9.5   | 9.6   |
| 95°    | 15.9  | 15.7  | 15.6  | 18.3  | 23.8  | 29.4  | 35.0  | 40.5  | 35.0  | 29.4  | 23.8  |
| 97.5°  | 56.0  | 74.3  | 92.6  | 100.0 | 96.5  | 93.0  | 89.5  | 86.1  | 89.5  | 93.0  | 96.5  |
| 100°   | 77.7  | 100.2 | 122.8 | 132.6 | 129.7 | 126.8 | 123.9 | 120.8 | 123.9 | 126.8 | 129.7 |
| 102.5° | 162.1 | 165.0 | 168.1 | 168.4 | 166.3 | 164.1 | 161.9 | 159.8 | 161.9 | 164.1 | 166.3 |
| 105°   | 228.3 | 227.4 | 226.7 | 225.7 | 224.8 | 223.8 | 222.8 | 221.8 | 222.8 | 223.8 | 224.8 |
| 107.5° | 284.5 | 283.3 | 282.2 | 281.4 | 281.0 | 280.4 | 279.9 | 279.5 | 279.9 | 280.4 | 281.0 |
| 110°   | 323.0 | 322.1 | 321.0 | 320.4 | 319.8 | 319.3 | 318.9 | 318.4 | 318.9 | 319.3 | 319.8 |





TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 361.2 | 360.8 | 360.3 | 359.7 | 358.7 | 357.9 | 356.9 | 356.1 | 356.9 | 357.9 | 358.7 |
| 115°   | 415.9 | 416.1 | 416.3 | 416.1 | 415.7 | 415.2 | 414.6 | 414.2 | 414.6 | 415.2 | 415.7 |
| 117.5° | 470.3 | 470.0 | 469.7 | 469.1 | 468.4 | 467.8 | 467.1 | 466.5 | 467.1 | 467.8 | 468.4 |
| 120°   | 504.4 | 504.5 | 504.7 | 504.4 | 503.9 | 503.2 | 502.6 | 501.9 | 502.6 | 503.2 | 503.9 |
| 122.5° | 537.2 | 537.0 | 536.8 | 536.5 | 536.0 | 535.6 | 535.3 | 534.9 | 535.3 | 535.6 | 536.0 |
| 125°   | 584.4 | 584.7 | 584.9 | 584.8 | 584.2 | 583.5 | 582.9 | 582.2 | 582.9 | 583.5 | 584.2 |
| 127.5° | 629.6 | 628.9 | 628.1 | 627.6 | 627.5 | 627.4 | 627.2 | 627.0 | 627.2 | 627.4 | 627.5 |
| 130°   | 657.9 | 657.3 | 656.9 | 656.6 | 656.4 | 656.2 | 656.1 | 655.9 | 656.1 | 656.2 | 656.4 |
| 132.5° | 685.3 | 684.7 | 684.1 | 683.6 | 683.3 | 683.1 | 682.7 | 682.4 | 682.7 | 683.1 | 683.3 |
| 135°   | 723.1 | 722.5 | 721.8 | 721.6 | 721.7 | 721.9 | 722.1 | 722.3 | 722.1 | 721.9 | 721.7 |
| 137.5° | 759.6 | 758.8 | 758.1 | 757.7 | 757.6 | 757.6 | 757.5 | 757.4 | 757.5 | 757.6 | 757.6 |
| 140°   | 782.8 | 782.4 | 782.1 | 781.7 | 781.5 | 781.1 | 780.8 | 780.4 | 780.8 | 781.1 | 781.5 |
| 142.5° | 804.3 | 804.0 | 803.8 | 803.4 | 802.9 | 802.3 | 801.6 | 801.1 | 801.6 | 802.3 | 802.9 |
| 145°   | 835.0 | 835.0 | 835.0 | 834.7 | 834.2 | 833.8 | 833.3 | 832.7 | 833.3 | 833.8 | 834.2 |
| 147.5° | 861.7 | 861.9 | 862.0 | 861.7 | 860.7 | 859.8 | 858.9 | 858.0 | 858.9 | 859.8 | 860.7 |
| 150°   | 878.8 | 878.9 | 879.1 | 878.8 | 878.3 | 877.6 | 876.9 | 876.3 | 876.9 | 877.6 | 878.3 |
| 152.5° | 893.2 | 893.5 | 893.8 | 893.7 | 893.2 | 892.6 | 892.1 | 891.6 | 892.1 | 892.6 | 893.2 |
| 155°   | 912.6 | 913.1 | 913.6 | 913.8 | 913.6 | 913.4 | 913.2 | 913.1 | 913.2 | 913.4 | 913.6 |
| 157.5° | 929.4 | 929.9 | 930.5 | 930.9 | 930.9 | 931.0 | 931.1 | 931.2 | 931.1 | 931.0 | 930.9 |
| 160°   | 939.2 | 939.4 | 939.5 | 939.9 | 940.4 | 940.8 | 941.3 | 941.9 | 941.3 | 940.8 | 940.4 |
| 162.5° | 948.1 | 948.2 | 948.4 | 948.8 | 949.4 | 950.0 | 950.6 | 951.3 | 950.6 | 950.0 | 949.4 |
| 165°   | 959.5 | 959.5 | 959.5 | 960.0 | 960.7 | 961.6 | 962.4 | 963.2 | 962.4 | 961.6 | 960.7 |
| 167.5° | 968.6 | 968.7 | 968.7 | 969.2 | 970.1 | 970.9 | 971.8 | 972.6 | 971.8 | 970.9 | 970.1 |
| 170°   | 973.9 | 973.7 | 973.6 | 974.0 | 975.0 | 976.0 | 976.9 | 978.0 | 976.9 | 976.0 | 975.0 |
| 172.5° | 977.5 | 977.3 | 977.1 | 977.6 | 978.5 | 979.5 | 980.5 | 981.5 | 980.5 | 979.5 | 978.5 |
| 175°   | 981.3 | 981.2 | 981.0 | 981.4 | 982.4 | 983.4 | 984.3 | 985.3 | 984.3 | 983.4 | 982.4 |
| 177.5° | 983.6 | 983.4 | 983.1 | 983.4 | 984.3 | 985.2 | 986.2 | 987.1 | 986.2 | 985.2 | 984.3 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 528.1 | 526.5 | 524.2 | 521.0 | 518.3 | 515.5 | 514.7 | 513.7 | 515.9 | 514.1 | 513.5 |
| 5°     | 510.9 | 506.1 | 500.1 | 493.2 | 489.2 | 483.4 | 482.3 | 480.0 | 477.8 | 477.6 | 475.3 |
| 7.5°   | 492.5 | 485.6 | 477.7 | 470.7 | 464.2 | 457.8 | 453.6 | 452.8 | 449.5 | 447.5 | 445.4 |
| 10°    | 480.7 | 472.2 | 463.1 | 456.4 | 448.8 | 442.1 | 437.4 | 434.8 | 432.5 | 430.1 | 427.8 |
| 12.5°  | 466.8 | 457.8 | 450.3 | 443.0 | 434.0 | 429.0 | 421.2 | 416.6 | 416.1 | 416.1 | 410.4 |
| 15°    | 450.6 | 441.7 | 430.1 | 419.8 | 414.9 | 405.1 | 400.9 | 395.5 | 392.2 | 388.8 | 386.2 |
| 17.5°  | 432.1 | 420.9 | 411.9 | 400.1 | 390.8 | 383.0 | 377.4 | 374.2 | 369.1 | 364.4 | 361.0 |
| 20°    | 420.5 | 408.7 | 399.1 | 386.5 | 376.4 | 366.7 | 362.0 | 357.6 | 353.8 | 349.8 | 346.0 |
| 22.5°  | 408.7 | 396.3 | 384.7 | 372.5 | 363.0 | 352.8 | 348.3 | 342.2 | 338.7 | 336.4 | 332.6 |
| 25°    | 390.1 | 376.7 | 363.4 | 351.8 | 342.0 | 333.0 | 327.1 | 322.3 | 318.3 | 316.5 | 314.1 |
| 27.5°  | 369.9 | 356.7 | 343.7 | 330.5 | 319.4 | 312.9 | 308.1 | 304.6 | 302.3 | 299.9 | 298.8 |
| 30°    | 357.1 | 343.3 | 329.5 | 317.2 | 307.0 | 300.5 | 296.1 | 293.6 | 291.8 | 290.7 | 289.5 |
| 32.5°  | 344.1 | 330.5 | 315.9 | 304.7 | 295.5 | 289.7 | 286.3 | 283.9 | 283.0 | 282.7 | 282.2 |
| 35°    | 323.2 | 309.4 | 296.1 | 286.0 | 277.3 | 275.0 | 272.1 | 270.8 | 270.3 | 271.9 | 272.6 |
| 37.5°  | 303.0 | 290.2 | 277.9 | 268.2 | 262.4 | 259.2 | 258.2 | 258.3 | 259.9 | 261.2 | 262.8 |
| 40°    | 290.0 | 277.5 | 265.9 | 257.4 | 252.0 | 250.1 | 249.6 | 250.7 | 252.5 | 254.1 | 255.9 |
| 42.5°  | 277.3 | 265.0 | 254.5 | 246.6 | 242.8 | 240.9 | 241.2 | 242.3 | 244.9 | 246.8 | 249.4 |
| 45°    | 257.7 | 247.4 | 237.1 | 230.6 | 227.5 | 228.0 | 228.0 | 230.0 | 232.4 | 235.4 | 238.3 |
| 47.5°  | 239.1 | 228.8 | 220.4 | 214.9 | 213.3 | 212.9 | 214.1 | 216.8 | 220.3 | 223.9 | 227.9 |
| 50°    | 226.7 | 216.8 | 209.4 | 204.5 | 202.7 | 203.4 | 205.2 | 207.6 | 211.9 | 216.4 | 220.6 |
| 52.5°  | 214.0 | 205.0 | 198.2 | 193.7 | 192.4 | 193.6 | 195.4 | 199.3 | 203.0 | 207.8 | 212.9 |
| 55°    | 194.3 | 186.7 | 181.3 | 178.0 | 177.6 | 178.2 | 180.2 | 184.5 | 189.8 | 195.9 | 200.8 |
| 57.5°  | 174.7 | 168.3 | 163.4 | 161.2 | 161.4 | 162.0 | 165.3 | 170.3 | 176.1 | 182.5 | 188.8 |
| 60°    | 161.5 | 155.7 | 151.7 | 149.9 | 150.1 | 151.5 | 155.5 | 160.1 | 167.3 | 173.5 | 180.2 |
| 62.5°  | 149.0 | 143.9 | 140.1 | 138.5 | 138.2 | 141.1 | 145.0 | 149.8 | 156.9 | 163.9 | 171.2 |
| 65°    | 128.9 | 124.9 | 121.8 | 120.9 | 121.6 | 123.9 | 128.8 | 135.2 | 141.2 | 148.5 | 156.2 |
| 67.5°  | 109.3 | 106.0 | 103.9 | 104.2 | 105.1 | 108.4 | 112.4 | 118.0 | 124.9 | 132.5 | 140.0 |
| 70°    | 96.8  | 93.7  | 91.9  | 92.1  | 93.5  | 97.5  | 101.0 | 106.6 | 114.0 | 121.8 | 128.0 |
| 72.5°  | 84.0  | 81.9  | 80.3  | 81.2  | 82.6  | 85.3  | 89.8  | 95.4  | 101.9 | 109.1 | 115.7 |
| 75°    | 64.5  | 64.5  | 63.6  | 64.3  | 66.3  | 68.9  | 72.3  | 78.0  | 84.5  | 90.4  | 95.7  |
| 77.5°  | 47.8  | 47.3  | 47.9  | 48.7  | 49.9  | 53.1  | 56.9  | 61.1  | 65.9  | 71.7  | 76.2  |
| 80°    | 36.6  | 36.9  | 37.9  | 39.3  | 39.7  | 42.1  | 46.2  | 50.0  | 53.7  | 58.6  | 62.9  |
| 82.5°  | 27.5  | 27.7  | 28.3  | 30.0  | 30.4  | 33.1  | 35.6  | 39.4  | 42.9  | 46.2  | 49.7  |
| 85°    | 15.0  | 15.0  | 16.0  | 16.8  | 17.8  | 19.6  | 21.2  | 23.5  | 26.6  | 28.7  | 32.1  |
| 87.5°  | 7.6   | 7.9   | 8.9   | 9.5   | 10.3  | 11.4  | 12.0  | 14.1  | 15.1  | 16.1  | 17.9  |
| 90°    | 9.4   | 10.9  | 12.3  | 13.6  | 14.9  | 16.2  | 17.2  | 18.2  | 19.1  | 20.2  | 20.8  |
| 92.5°  | 9.7   | 10.4  | 11.7  | 13.0  | 14.3  | 15.6  | 16.6  | 17.6  | 18.6  | 19.5  | 20.1  |
| 95°    | 18.3  | 15.6  | 15.7  | 15.9  | 16.0  | 16.2  | 17.2  | 18.2  | 19.1  | 20.2  | 20.7  |
| 97.5°  | 100.0 | 92.6  | 74.3  | 56.0  | 37.7  | 19.4  | 19.5  | 19.7  | 19.8  | 19.9  | 20.0  |
| 100°   | 132.6 | 122.8 | 100.2 | 77.7  | 55.0  | 32.4  | 29.6  | 26.9  | 24.0  | 21.3  | 20.0  |
| 102.5° | 168.4 | 168.1 | 165.0 | 162.1 | 159.2 | 156.3 | 126.2 | 96.1  | 66.2  | 36.1  | 21.1  |
| 105°   | 225.7 | 226.7 | 227.4 | 228.3 | 229.1 | 229.9 | 231.4 | 232.9 | 234.3 | 235.8 | 233.7 |
| 107.5° | 281.4 | 282.2 | 283.3 | 284.5 | 285.6 | 286.7 | 287.4 | 288.1 | 288.8 | 289.5 | 290.2 |
| 110°   | 320.4 | 321.0 | 322.1 | 323.0 | 324.0 | 325.0 | 325.4 | 325.6 | 326.0 | 326.3 | 326.7 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 359.7 | 360.3 | 360.8 | 361.2 | 361.7 | 362.1 | 362.1 | 362.0 | 361.9 | 361.8 | 362.1 |
| 115°   | 416.1 | 416.3 | 416.1 | 415.9 | 415.8 | 415.7 | 415.9 | 416.3 | 416.6 | 417.0 | 417.2 |
| 117.5° | 469.1 | 469.7 | 470.0 | 470.3 | 470.7 | 471.1 | 471.0 | 470.9 | 470.9 | 470.8 | 470.7 |
| 120°   | 504.4 | 504.7 | 504.5 | 504.4 | 504.3 | 504.1 | 504.4 | 504.7 | 505.1 | 505.4 | 505.4 |
| 122.5° | 536.5 | 536.8 | 537.0 | 537.2 | 537.4 | 537.7 | 537.9 | 538.1 | 538.3 | 538.5 | 538.4 |
| 125°   | 584.8 | 584.9 | 584.7 | 584.4 | 584.0 | 583.7 | 584.2 | 584.7 | 585.1 | 585.6 | 586.0 |
| 127.5° | 627.6 | 628.1 | 628.9 | 629.6 | 630.4 | 631.1 | 631.0 | 630.9 | 630.8 | 630.7 | 630.7 |
| 130°   | 656.6 | 656.9 | 657.3 | 657.9 | 658.4 | 658.8 | 659.0 | 659.2 | 659.3 | 659.5 | 659.6 |
| 132.5° | 683.6 | 684.1 | 684.7 | 685.3 | 685.9 | 686.5 | 686.7 | 686.9 | 687.0 | 687.2 | 687.2 |
| 135°   | 721.6 | 721.8 | 722.5 | 723.1 | 723.8 | 724.4 | 724.7 | 725.1 | 725.4 | 725.8 | 726.0 |
| 137.5° | 757.7 | 758.1 | 758.8 | 759.6 | 760.3 | 761.0 | 761.4 | 761.7 | 762.0 | 762.4 | 762.5 |
| 140°   | 781.7 | 782.1 | 782.4 | 782.8 | 783.1 | 783.3 | 783.9 | 784.4 | 784.9 | 785.3 | 785.7 |
| 142.5° | 803.4 | 803.8 | 804.0 | 804.3 | 804.5 | 804.6 | 805.0 | 805.3 | 805.7 | 806.1 | 806.3 |
| 145°   | 834.7 | 835.0 | 835.0 | 835.0 | 835.0 | 835.0 | 835.2 | 835.3 | 835.5 | 835.7 | 835.8 |
| 147.5° | 861.7 | 862.0 | 861.9 | 861.7 | 861.5 | 861.4 | 861.5 | 861.7 | 861.8 | 861.9 | 862.0 |
| 150°   | 878.8 | 879.1 | 878.9 | 878.8 | 878.6 | 878.4 | 878.4 | 878.4 | 878.4 | 878.4 | 878.5 |
| 152.5° | 893.7 | 893.8 | 893.5 | 893.2 | 892.9 | 892.6 | 892.9 | 893.2 | 893.4 | 893.6 | 893.7 |
| 155°   | 913.8 | 913.6 | 913.1 | 912.6 | 912.1 | 911.6 | 912.3 | 912.9 | 913.6 | 914.3 | 914.4 |
| 157.5° | 930.9 | 930.5 | 929.9 | 929.4 | 928.9 | 928.3 | 929.2 | 930.0 | 930.9 | 931.7 | 931.7 |
| 160°   | 939.9 | 939.5 | 939.4 | 939.2 | 939.1 | 938.9 | 939.9 | 940.8 | 941.9 | 942.8 | 942.8 |
| 162.5° | 948.8 | 948.4 | 948.2 | 948.1 | 947.9 | 947.7 | 948.8 | 949.7 | 950.6 | 951.7 | 951.6 |
| 165°   | 960.0 | 959.5 | 959.5 | 959.5 | 959.5 | 959.5 | 960.8 | 962.1 | 963.5 | 964.8 | 964.7 |
| 167.5° | 969.2 | 968.7 | 968.7 | 968.6 | 968.5 | 968.4 | 969.8 | 971.3 | 972.7 | 974.1 | 974.0 |
| 170°   | 974.0 | 973.6 | 973.7 | 973.9 | 974.1 | 974.3 | 975.5 | 976.9 | 978.2 | 979.5 | 979.3 |
| 172.5° | 977.6 | 977.1 | 977.3 | 977.5 | 977.6 | 977.8 | 979.1 | 980.4 | 981.8 | 983.1 | 982.8 |
| 175°   | 981.4 | 981.0 | 981.2 | 981.3 | 981.5 | 981.7 | 983.1 | 984.6 | 986.1 | 987.5 | 987.3 |
| 177.5° | 983.4 | 983.1 | 983.4 | 983.6 | 983.9 | 984.1 | 985.1 | 986.3 | 987.3 | 988.4 | 988.1 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 513.1 | 512.8 | 511.5 | 511.3 | 511.5 | 512.8 | 513.1 | 513.5 | 514.1 | 515.9 | 513.7 |
| 5°     | 474.0 | 472.9 | 472.2 | 474.7 | 472.2 | 472.9 | 474.0 | 475.3 | 477.6 | 477.8 | 480.0 |
| 7.5°   | 444.5 | 443.7 | 441.7 | 441.0 | 441.7 | 443.7 | 444.5 | 445.4 | 447.5 | 449.5 | 452.8 |
| 10°    | 425.7 | 424.7 | 422.9 | 422.4 | 422.9 | 424.7 | 425.7 | 427.8 | 430.1 | 432.5 | 434.8 |
| 12.5°  | 407.4 | 405.7 | 405.3 | 405.8 | 405.3 | 405.7 | 407.4 | 410.4 | 416.1 | 416.1 | 416.6 |
| 15°    | 383.2 | 382.3 | 379.8 | 380.6 | 379.8 | 382.3 | 383.2 | 386.2 | 388.8 | 392.2 | 395.5 |
| 17.5°  | 359.4 | 358.4 | 355.3 | 358.0 | 355.3 | 358.4 | 359.4 | 361.0 | 364.4 | 369.1 | 374.2 |
| 20°    | 344.4 | 342.6 | 341.1 | 340.8 | 341.1 | 342.6 | 344.4 | 346.0 | 349.8 | 353.8 | 357.6 |
| 22.5°  | 330.2 | 328.6 | 328.4 | 327.0 | 328.4 | 328.6 | 330.2 | 332.6 | 336.4 | 338.7 | 342.2 |
| 25°    | 312.3 | 310.8 | 310.3 | 309.2 | 310.3 | 310.8 | 312.3 | 314.1 | 316.5 | 318.3 | 322.3 |
| 27.5°  | 298.6 | 297.8 | 297.0 | 297.4 | 297.0 | 297.8 | 298.6 | 298.8 | 299.9 | 302.3 | 304.6 |
| 30°    | 290.2 | 290.0 | 289.5 | 289.5 | 289.5 | 290.0 | 290.2 | 289.5 | 290.7 | 291.8 | 293.6 |
| 32.5°  | 283.2 | 283.2 | 283.5 | 283.5 | 283.5 | 283.2 | 283.2 | 282.2 | 282.7 | 283.0 | 283.9 |
| 35°    | 273.5 | 274.2 | 274.6 | 273.9 | 274.6 | 274.2 | 273.5 | 272.6 | 271.9 | 270.3 | 270.8 |
| 37.5°  | 264.7 | 265.3 | 266.0 | 266.7 | 266.0 | 265.3 | 264.7 | 262.8 | 261.2 | 259.9 | 258.3 |
| 40°    | 257.9 | 259.4 | 259.9 | 261.0 | 259.9 | 259.4 | 257.9 | 255.9 | 254.1 | 252.5 | 250.7 |
| 42.5°  | 251.5 | 253.2 | 254.3 | 254.6 | 254.3 | 253.2 | 251.5 | 249.4 | 246.8 | 244.9 | 242.3 |
| 45°    | 241.6 | 243.4 | 245.0 | 245.0 | 245.0 | 243.4 | 241.6 | 238.3 | 235.4 | 232.4 | 230.0 |
| 47.5°  | 231.4 | 233.9 | 235.5 | 235.9 | 235.5 | 233.9 | 231.4 | 227.9 | 223.9 | 220.3 | 216.8 |
| 50°    | 224.4 | 227.5 | 229.1 | 230.2 | 229.1 | 227.5 | 224.4 | 220.6 | 216.4 | 211.9 | 207.6 |
| 52.5°  | 217.6 | 220.7 | 222.8 | 223.4 | 222.8 | 220.7 | 217.6 | 212.9 | 207.8 | 203.0 | 199.3 |
| 55°    | 205.9 | 210.4 | 212.8 | 213.7 | 212.8 | 210.4 | 205.9 | 200.8 | 195.9 | 189.8 | 184.5 |
| 57.5°  | 194.8 | 199.0 | 201.8 | 202.5 | 201.8 | 199.0 | 194.8 | 188.8 | 182.5 | 176.1 | 170.3 |
| 60°    | 186.2 | 190.8 | 194.3 | 194.9 | 194.3 | 190.8 | 186.2 | 180.2 | 173.5 | 167.3 | 160.1 |
| 62.5°  | 177.5 | 182.2 | 185.4 | 187.1 | 185.4 | 182.2 | 177.5 | 171.2 | 163.9 | 156.9 | 149.8 |
| 65°    | 162.4 | 167.1 | 170.2 | 170.9 | 170.2 | 167.1 | 162.4 | 156.2 | 148.5 | 141.2 | 135.2 |
| 67.5°  | 145.9 | 150.6 | 152.6 | 153.9 | 152.6 | 150.6 | 145.9 | 140.0 | 132.5 | 124.9 | 118.0 |
| 70°    | 134.3 | 138.1 | 140.3 | 141.4 | 140.3 | 138.1 | 134.3 | 128.0 | 121.8 | 114.0 | 106.6 |
| 72.5°  | 121.1 | 125.1 | 127.6 | 127.9 | 127.6 | 125.1 | 121.1 | 115.7 | 109.1 | 101.9 | 95.4  |
| 75°    | 100.9 | 104.4 | 105.8 | 105.8 | 105.8 | 104.4 | 100.9 | 95.7  | 90.4  | 84.5  | 78.0  |
| 77.5°  | 79.8  | 81.6  | 83.3  | 83.7  | 83.3  | 81.6  | 79.8  | 76.2  | 71.7  | 65.9  | 61.1  |
| 80°    | 66.3  | 67.4  | 68.7  | 68.7  | 68.7  | 67.4  | 66.3  | 62.9  | 58.6  | 53.7  | 50.0  |
| 82.5°  | 52.3  | 53.3  | 54.6  | 54.4  | 54.6  | 53.3  | 52.3  | 49.7  | 46.2  | 42.9  | 39.4  |
| 85°    | 31.7  | 33.6  | 33.5  | 33.0  | 33.5  | 33.6  | 31.7  | 32.1  | 28.7  | 26.6  | 23.5  |
| 87.5°  | 18.5  | 18.8  | 19.3  | 19.8  | 19.3  | 18.8  | 18.5  | 17.9  | 16.1  | 15.1  | 14.1  |
| 90°    | 21.1  | 21.5  | 21.8  | 22.1  | 21.8  | 21.5  | 21.1  | 20.8  | 20.2  | 19.1  | 18.2  |
| 92.5°  | 20.2  | 20.2  | 20.3  | 20.4  | 20.3  | 20.2  | 20.2  | 20.1  | 19.5  | 18.6  | 17.6  |
| 95°    | 20.9  | 21.0  | 21.2  | 21.4  | 21.2  | 21.0  | 20.9  | 20.7  | 20.2  | 19.1  | 18.2  |
| 97.5°  | 20.2  | 20.3  | 20.5  | 20.6  | 20.5  | 20.3  | 20.2  | 20.0  | 19.9  | 19.8  | 19.7  |
| 100°   | 20.2  | 20.3  | 20.5  | 20.6  | 20.5  | 20.3  | 20.2  | 20.0  | 21.3  | 24.0  | 26.9  |
| 102.5° | 21.1  | 21.1  | 21.2  | 21.2  | 21.2  | 21.1  | 21.1  | 21.1  | 36.1  | 66.2  | 96.1  |
| 105°   | 227.7 | 221.8 | 215.9 | 210.0 | 215.9 | 221.8 | 227.7 | 233.7 | 235.8 | 234.3 | 232.9 |
| 107.5° | 290.9 | 291.4 | 292.1 | 292.8 | 292.1 | 291.4 | 290.9 | 290.2 | 289.5 | 288.8 | 288.1 |
| 110°   | 327.3 | 327.7 | 328.2 | 328.7 | 328.2 | 327.7 | 327.3 | 326.7 | 326.3 | 326.0 | 325.6 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 362.8 | 363.4 | 364.0 | 364.7 | 364.0 | 363.4 | 362.8 | 362.1 | 361.8 | 361.9 | 362.0 |
| 115°   | 417.2 | 417.2 | 417.2 | 417.2 | 417.2 | 417.2 | 417.2 | 417.2 | 417.0 | 416.6 | 416.3 |
| 117.5° | 470.7 | 470.6 | 470.5 | 470.5 | 470.5 | 470.6 | 470.7 | 470.7 | 470.8 | 470.9 | 470.9 |
| 120°   | 505.1 | 504.7 | 504.4 | 504.1 | 504.4 | 504.7 | 505.1 | 505.4 | 505.4 | 505.1 | 504.7 |
| 122.5° | 538.1 | 537.7 | 537.4 | 537.1 | 537.4 | 537.7 | 538.1 | 538.4 | 538.5 | 538.3 | 538.1 |
| 125°   | 586.2 | 586.3 | 586.4 | 586.6 | 586.4 | 586.3 | 586.2 | 586.0 | 585.6 | 585.1 | 584.7 |
| 127.5° | 630.5 | 630.4 | 630.3 | 630.1 | 630.3 | 630.4 | 630.5 | 630.7 | 630.7 | 630.8 | 630.9 |
| 130°   | 659.6 | 659.6 | 659.6 | 659.6 | 659.6 | 659.6 | 659.6 | 659.6 | 659.5 | 659.3 | 659.2 |
| 132.5° | 687.1 | 686.9 | 686.8 | 686.7 | 686.8 | 686.9 | 687.1 | 687.2 | 687.2 | 687.0 | 686.9 |
| 135°   | 726.4 | 726.7 | 727.1 | 727.4 | 727.1 | 726.7 | 726.4 | 726.0 | 725.8 | 725.4 | 725.1 |
| 137.5° | 762.4 | 762.3 | 762.2 | 762.1 | 762.2 | 762.3 | 762.4 | 762.5 | 762.4 | 762.0 | 761.7 |
| 140°   | 785.9 | 786.0 | 786.2 | 786.4 | 786.2 | 786.0 | 785.9 | 785.7 | 785.3 | 784.9 | 784.4 |
| 142.5° | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.1 | 805.7 | 805.3 |
| 145°   | 836.2 | 836.5 | 836.9 | 837.2 | 836.9 | 836.5 | 836.2 | 835.8 | 835.7 | 835.5 | 835.3 |
| 147.5° | 862.2 | 862.3 | 862.5 | 862.7 | 862.5 | 862.3 | 862.2 | 862.0 | 861.9 | 861.8 | 861.7 |
| 150°   | 878.7 | 878.8 | 879.0 | 879.2 | 879.0 | 878.8 | 878.7 | 878.5 | 878.4 | 878.4 | 878.4 |
| 152.5° | 893.6 | 893.5 | 893.4 | 893.3 | 893.4 | 893.5 | 893.6 | 893.7 | 893.6 | 893.4 | 893.2 |
| 155°   | 913.8 | 913.3 | 912.9 | 912.4 | 912.9 | 913.3 | 913.8 | 914.4 | 914.3 | 913.6 | 912.9 |
| 157.5° | 930.9 | 930.0 | 929.2 | 928.3 | 929.2 | 930.0 | 930.9 | 931.7 | 931.7 | 930.9 | 930.0 |
| 160°   | 941.9 | 940.8 | 939.9 | 938.9 | 939.9 | 940.8 | 941.9 | 942.8 | 942.8 | 941.9 | 940.8 |
| 162.5° | 950.5 | 949.3 | 948.3 | 947.2 | 948.3 | 949.3 | 950.5 | 951.6 | 951.7 | 950.6 | 949.7 |
| 165°   | 963.2 | 961.8 | 960.3 | 958.8 | 960.3 | 961.8 | 963.2 | 964.7 | 964.8 | 963.5 | 962.1 |
| 167.5° | 972.4 | 970.7 | 969.1 | 967.5 | 969.1 | 970.7 | 972.4 | 974.0 | 974.1 | 972.7 | 971.3 |
| 170°   | 977.7 | 976.1 | 974.4 | 972.8 | 974.4 | 976.1 | 977.7 | 979.3 | 979.5 | 978.2 | 976.9 |
| 172.5° | 981.1 | 979.3 | 977.5 | 975.7 | 977.5 | 979.3 | 981.1 | 982.8 | 983.1 | 981.8 | 980.4 |
| 175°   | 985.3 | 983.4 | 981.4 | 979.4 | 981.4 | 983.4 | 985.3 | 987.3 | 987.5 | 986.1 | 984.6 |
| 177.5° | 986.5 | 985.0 | 983.4 | 981.8 | 983.4 | 985.0 | 986.5 | 988.1 | 988.4 | 987.3 | 986.3 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 514.7 | 515.5 | 518.3 | 521.0 | 524.2 | 526.5 | 528.1 | 529.9 | 533.7 | 536.7 | 539.6 |
| 5°     | 482.3 | 483.4 | 489.2 | 493.2 | 500.1 | 506.1 | 510.9 | 515.9 | 522.0 | 530.3 | 537.8 |
| 7.5°   | 453.6 | 457.8 | 464.2 | 470.7 | 477.7 | 485.6 | 492.5 | 500.2 | 510.6 | 522.0 | 533.7 |
| 10°    | 437.4 | 442.1 | 448.8 | 456.4 | 463.1 | 472.2 | 480.7 | 489.8 | 501.7 | 515.5 | 529.3 |
| 12.5°  | 421.2 | 429.0 | 434.0 | 443.0 | 450.3 | 457.8 | 466.8 | 478.8 | 492.6 | 507.1 | 523.8 |
| 15°    | 400.9 | 405.1 | 414.9 | 419.8 | 430.1 | 441.7 | 450.6 | 462.6 | 476.0 | 495.2 | 514.0 |
| 17.5°  | 377.4 | 383.0 | 390.8 | 400.1 | 411.9 | 420.9 | 432.1 | 444.5 | 461.4 | 480.4 | 503.9 |
| 20°    | 362.0 | 366.7 | 376.4 | 386.5 | 399.1 | 408.7 | 420.5 | 432.5 | 450.0 | 470.2 | 494.7 |
| 22.5°  | 348.3 | 352.8 | 363.0 | 372.5 | 384.7 | 396.3 | 408.7 | 422.7 | 439.4 | 460.8 | 485.9 |
| 25°    | 327.1 | 333.0 | 342.0 | 351.8 | 363.4 | 376.7 | 390.1 | 402.7 | 420.5 | 443.0 | 469.8 |
| 27.5°  | 308.1 | 312.9 | 319.4 | 330.5 | 343.7 | 356.7 | 369.9 | 385.7 | 402.8 | 426.7 | 454.4 |
| 30°    | 296.1 | 300.5 | 307.0 | 317.2 | 329.5 | 343.3 | 357.1 | 372.3 | 390.1 | 413.8 | 442.1 |
| 32.5°  | 286.3 | 289.7 | 295.5 | 304.7 | 315.9 | 330.5 | 344.1 | 359.8 | 378.5 | 401.8 | 429.4 |
| 35°    | 272.1 | 275.0 | 277.3 | 286.0 | 296.1 | 309.4 | 323.2 | 340.0 | 358.1 | 380.1 | 407.7 |
| 37.5°  | 258.2 | 259.2 | 262.4 | 268.2 | 277.9 | 290.2 | 303.0 | 319.5 | 338.0 | 360.4 | 385.4 |
| 40°    | 249.6 | 250.1 | 252.0 | 257.4 | 265.9 | 277.5 | 290.0 | 306.2 | 323.9 | 345.1 | 369.9 |
| 42.5°  | 241.2 | 240.9 | 242.8 | 246.6 | 254.5 | 265.0 | 277.3 | 292.2 | 309.8 | 329.4 | 352.7 |
| 45°    | 228.0 | 228.0 | 227.5 | 230.6 | 237.1 | 247.4 | 257.7 | 271.9 | 286.6 | 305.9 | 325.5 |
| 47.5°  | 214.1 | 212.9 | 213.3 | 214.9 | 220.4 | 228.8 | 239.1 | 250.8 | 263.8 | 280.0 | 297.3 |
| 50°    | 205.2 | 203.4 | 202.7 | 204.5 | 209.4 | 216.8 | 226.7 | 236.9 | 249.2 | 263.4 | 278.1 |
| 52.5°  | 195.4 | 193.6 | 192.4 | 193.7 | 198.2 | 205.0 | 214.0 | 223.0 | 234.0 | 245.6 | 258.4 |
| 55°    | 180.2 | 178.2 | 177.6 | 178.0 | 181.3 | 186.7 | 194.3 | 202.6 | 210.8 | 220.4 | 229.3 |
| 57.5°  | 165.3 | 162.0 | 161.4 | 161.2 | 163.4 | 168.3 | 174.7 | 181.8 | 187.8 | 193.7 | 203.2 |
| 60°    | 155.5 | 151.5 | 150.1 | 149.9 | 151.7 | 155.7 | 161.5 | 168.6 | 172.9 | 176.9 | 185.1 |
| 62.5°  | 145.0 | 141.1 | 138.2 | 138.5 | 140.1 | 143.9 | 149.0 | 154.2 | 157.0 | 161.4 | 166.9 |
| 65°    | 128.8 | 123.9 | 121.6 | 120.9 | 121.8 | 124.9 | 128.9 | 132.2 | 135.4 | 137.2 | 142.5 |
| 67.5°  | 112.4 | 108.4 | 105.1 | 104.2 | 103.9 | 106.0 | 109.3 | 111.3 | 113.6 | 115.1 | 118.3 |
| 70°    | 101.0 | 97.5  | 93.5  | 92.1  | 91.9  | 93.7  | 96.8  | 97.1  | 100.2 | 100.9 | 104.2 |
| 72.5°  | 89.8  | 85.3  | 82.6  | 81.2  | 80.3  | 81.9  | 84.0  | 84.5  | 86.2  | 87.5  | 89.2  |
| 75°    | 72.3  | 68.9  | 66.3  | 64.3  | 63.6  | 64.5  | 64.5  | 65.6  | 66.7  | 67.4  | 69.4  |
| 77.5°  | 56.9  | 53.1  | 49.9  | 48.7  | 47.9  | 47.3  | 47.8  | 48.5  | 48.0  | 49.1  | 49.6  |
| 80°    | 46.2  | 42.1  | 39.7  | 39.3  | 37.9  | 36.9  | 36.6  | 37.2  | 36.4  | 36.9  | 38.2  |
| 82.5°  | 35.6  | 33.1  | 30.4  | 30.0  | 28.3  | 27.7  | 27.5  | 27.1  | 27.1  | 27.0  | 27.2  |
| 85°    | 21.2  | 19.6  | 17.8  | 16.8  | 16.0  | 15.0  | 15.0  | 14.5  | 14.0  | 13.6  | 13.9  |
| 87.5°  | 12.0  | 11.4  | 10.3  | 9.5   | 8.9   | 7.9   | 7.6   | 6.7   | 6.1   | 5.7   | 5.1   |
| 90°    | 17.2  | 16.2  | 14.9  | 13.6  | 12.3  | 10.9  | 9.4   | 7.6   | 5.8   | 4.1   | 2.2   |
| 92.5°  | 16.6  | 15.6  | 14.3  | 13.0  | 11.7  | 10.4  | 9.7   | 9.6   | 9.5   | 9.4   | 9.3   |
| 95°    | 17.2  | 16.2  | 16.0  | 15.9  | 15.7  | 15.6  | 18.3  | 23.8  | 29.4  | 35.0  | 40.5  |
| 97.5°  | 19.5  | 19.4  | 37.7  | 56.0  | 74.3  | 92.6  | 100.0 | 96.5  | 93.0  | 89.5  | 86.1  |
| 100°   | 29.6  | 32.4  | 55.0  | 77.7  | 100.2 | 122.8 | 132.6 | 129.7 | 126.8 | 123.9 | 120.8 |
| 102.5° | 126.2 | 156.3 | 159.2 | 162.1 | 165.0 | 168.1 | 168.4 | 166.3 | 164.1 | 161.9 | 159.8 |
| 105°   | 231.4 | 229.9 | 229.1 | 228.3 | 227.4 | 226.7 | 225.7 | 224.8 | 223.8 | 222.8 | 221.8 |
| 107.5° | 287.4 | 286.7 | 285.6 | 284.5 | 283.3 | 282.2 | 281.4 | 281.0 | 280.4 | 279.9 | 279.5 |
| 110°   | 325.4 | 325.0 | 324.0 | 323.0 | 322.1 | 321.0 | 320.4 | 319.8 | 319.3 | 318.9 | 318.4 |



TEST NUMBER: P332508-830  
 CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 362.1 | 362.1 | 361.7 | 361.2 | 360.8 | 360.3 | 359.7 | 358.7 | 357.9 | 356.9 | 356.1 |
| 115°   | 415.9 | 415.7 | 415.8 | 415.9 | 416.1 | 416.3 | 416.1 | 415.7 | 415.2 | 414.6 | 414.2 |
| 117.5° | 471.0 | 471.1 | 470.7 | 470.3 | 470.0 | 469.7 | 469.1 | 468.4 | 467.8 | 467.1 | 466.5 |
| 120°   | 504.4 | 504.1 | 504.3 | 504.4 | 504.5 | 504.7 | 504.4 | 503.9 | 503.2 | 502.6 | 501.9 |
| 122.5° | 537.9 | 537.7 | 537.4 | 537.2 | 537.0 | 536.8 | 536.5 | 536.0 | 535.6 | 535.3 | 534.9 |
| 125°   | 584.2 | 583.7 | 584.0 | 584.4 | 584.7 | 584.9 | 584.8 | 584.2 | 583.5 | 582.9 | 582.2 |
| 127.5° | 631.0 | 631.1 | 630.4 | 629.6 | 628.9 | 628.1 | 627.6 | 627.5 | 627.4 | 627.2 | 627.0 |
| 130°   | 659.0 | 658.8 | 658.4 | 657.9 | 657.3 | 656.9 | 656.6 | 656.4 | 656.2 | 656.1 | 655.9 |
| 132.5° | 686.7 | 686.5 | 685.9 | 685.3 | 684.7 | 684.1 | 683.6 | 683.3 | 683.1 | 682.7 | 682.4 |
| 135°   | 724.7 | 724.4 | 723.8 | 723.1 | 722.5 | 721.8 | 721.6 | 721.7 | 721.9 | 722.1 | 722.3 |
| 137.5° | 761.4 | 761.0 | 760.3 | 759.6 | 758.8 | 758.1 | 757.7 | 757.6 | 757.6 | 757.5 | 757.4 |
| 140°   | 783.9 | 783.3 | 783.1 | 782.8 | 782.4 | 782.1 | 781.7 | 781.5 | 781.1 | 780.8 | 780.4 |
| 142.5° | 805.0 | 804.6 | 804.5 | 804.3 | 804.0 | 803.8 | 803.4 | 802.9 | 802.3 | 801.6 | 801.1 |
| 145°   | 835.2 | 835.0 | 835.0 | 835.0 | 835.0 | 835.0 | 834.7 | 834.2 | 833.8 | 833.3 | 832.7 |
| 147.5° | 861.5 | 861.4 | 861.5 | 861.7 | 861.9 | 862.0 | 861.7 | 860.7 | 859.8 | 858.9 | 858.0 |
| 150°   | 878.4 | 878.4 | 878.6 | 878.8 | 878.9 | 879.1 | 878.8 | 878.3 | 877.6 | 876.9 | 876.3 |
| 152.5° | 892.9 | 892.6 | 892.9 | 893.2 | 893.5 | 893.8 | 893.7 | 893.2 | 892.6 | 892.1 | 891.6 |
| 155°   | 912.3 | 911.6 | 912.1 | 912.6 | 913.1 | 913.6 | 913.8 | 913.6 | 913.4 | 913.2 | 913.1 |
| 157.5° | 929.2 | 928.3 | 928.9 | 929.4 | 929.9 | 930.5 | 930.9 | 930.9 | 931.0 | 931.1 | 931.2 |
| 160°   | 939.9 | 938.9 | 939.1 | 939.2 | 939.4 | 939.5 | 939.9 | 940.4 | 940.8 | 941.3 | 941.9 |
| 162.5° | 948.8 | 947.7 | 947.9 | 948.1 | 948.2 | 948.4 | 948.8 | 949.4 | 950.0 | 950.6 | 951.3 |
| 165°   | 960.8 | 959.5 | 959.5 | 959.5 | 959.5 | 959.5 | 960.0 | 960.7 | 961.6 | 962.4 | 963.2 |
| 167.5° | 969.8 | 968.4 | 968.5 | 968.6 | 968.7 | 968.7 | 969.2 | 970.1 | 970.9 | 971.8 | 972.6 |
| 170°   | 975.5 | 974.3 | 974.1 | 973.9 | 973.7 | 973.6 | 974.0 | 975.0 | 976.0 | 976.9 | 978.0 |
| 172.5° | 979.1 | 977.8 | 977.6 | 977.5 | 977.3 | 977.1 | 977.6 | 978.5 | 979.5 | 980.5 | 981.5 |
| 175°   | 983.1 | 981.7 | 981.5 | 981.3 | 981.2 | 981.0 | 981.4 | 982.4 | 983.4 | 984.3 | 985.3 |
| 177.5° | 985.1 | 984.1 | 983.9 | 983.6 | 983.4 | 983.1 | 983.4 | 984.3 | 985.2 | 986.2 | 987.1 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 542.1 | 543.8 | 546.2 | 550.1 | 551.5 | 553.3 | 555.8 | 555.6 | 556.3 | 559.0 | 564.7 |
| 5°     | 544.0 | 551.0 | 557.7 | 565.7 | 574.2 | 579.8 | 587.3 | 592.0 | 596.7 | 602.8 | 613.0 |
| 7.5°   | 544.9 | 555.8 | 568.1 | 582.2 | 594.7 | 609.2 | 620.5 | 631.1 | 640.7 | 653.4 | 665.6 |
| 10°    | 543.7 | 558.4 | 574.2 | 592.0 | 611.0 | 627.1 | 641.6 | 658.1 | 672.1 | 687.5 | 701.3 |
| 12.5°  | 541.3 | 559.0 | 580.2 | 600.2 | 622.4 | 646.1 | 664.2 | 680.9 | 699.6 | 717.3 | 738.7 |
| 15°    | 536.0 | 560.3 | 585.1 | 611.4 | 641.1 | 668.5 | 694.7 | 716.2 | 736.3 | 762.9 | 790.8 |
| 17.5°  | 529.3 | 555.5 | 586.8 | 618.7 | 649.7 | 681.0 | 713.3 | 745.8 | 771.2 | 804.2 | 826.0 |
| 20°    | 523.1 | 553.5 | 585.6 | 623.5 | 654.5 | 693.5 | 725.7 | 757.1 | 791.9 | 824.7 | 850.8 |
| 22.5°  | 514.3 | 547.5 | 581.6 | 619.3 | 660.2 | 699.3 | 736.3 | 770.4 | 805.3 | 840.9 | 872.5 |
| 25°    | 503.2 | 533.4 | 573.7 | 616.5 | 657.1 | 699.6 | 742.2 | 784.9 | 822.5 | 860.2 | 889.6 |
| 27.5°  | 484.4 | 522.4 | 560.0 | 604.2 | 649.2 | 697.2 | 742.8 | 787.6 | 826.9 | 857.9 | 876.1 |
| 30°    | 474.7 | 507.7 | 548.6 | 593.0 | 641.8 | 693.3 | 740.8 | 784.8 | 821.3 | 846.1 | 853.5 |
| 32.5°  | 460.4 | 494.5 | 534.4 | 580.4 | 632.2 | 685.1 | 734.5 | 776.0 | 806.5 | 819.5 | 810.7 |
| 35°    | 439.2 | 470.0 | 510.4 | 557.4 | 611.2 | 667.6 | 716.5 | 751.5 | 767.1 | 754.9 | 724.3 |
| 37.5°  | 413.8 | 444.3 | 484.8 | 531.1 | 586.7 | 644.1 | 688.2 | 713.5 | 708.3 | 677.8 | 632.3 |
| 40°    | 396.0 | 424.5 | 463.1 | 513.0 | 567.2 | 624.8 | 663.6 | 677.2 | 663.0 | 619.3 | 570.8 |
| 42.5°  | 376.2 | 404.0 | 442.7 | 491.0 | 548.4 | 601.4 | 635.3 | 636.4 | 612.5 | 560.2 | 511.6 |
| 45°    | 346.0 | 372.5 | 409.1 | 459.3 | 512.4 | 562.3 | 584.7 | 573.7 | 529.5 | 479.2 | 430.3 |
| 47.5°  | 316.2 | 339.2 | 375.3 | 422.9 | 473.3 | 515.4 | 526.5 | 506.8 | 459.8 | 410.8 | 365.5 |
| 50°    | 294.5 | 317.6 | 351.6 | 397.1 | 445.7 | 482.0 | 487.4 | 461.3 | 415.1 | 365.8 | 330.4 |
| 52.5°  | 273.5 | 296.6 | 329.2 | 371.4 | 415.8 | 448.7 | 448.8 | 418.7 | 372.7 | 328.8 | 295.8 |
| 55°    | 242.9 | 263.6 | 293.1 | 330.8 | 370.5 | 396.2 | 389.9 | 358.7 | 318.8 | 280.6 | 251.8 |
| 57.5°  | 213.4 | 231.5 | 258.5 | 290.0 | 325.0 | 346.2 | 335.8 | 305.8 | 270.1 | 237.7 | 215.9 |
| 60°    | 194.3 | 211.5 | 234.7 | 264.4 | 293.8 | 310.3 | 300.5 | 273.2 | 240.4 | 214.3 | 195.4 |
| 62.5°  | 175.7 | 190.2 | 212.5 | 238.3 | 265.6 | 277.8 | 269.1 | 242.2 | 213.9 | 190.3 | 174.8 |
| 65°    | 149.5 | 161.3 | 179.1 | 201.2 | 221.0 | 231.6 | 224.2 | 199.2 | 177.6 | 160.6 | 148.4 |
| 67.5°  | 124.9 | 134.1 | 147.7 | 165.4 | 182.3 | 187.9 | 181.3 | 163.8 | 145.5 | 132.0 | 123.3 |
| 70°    | 107.9 | 116.7 | 128.0 | 141.7 | 156.4 | 162.4 | 155.7 | 141.9 | 127.0 | 114.4 | 105.9 |
| 72.5°  | 93.1  | 99.9  | 109.5 | 121.1 | 132.6 | 138.6 | 134.1 | 120.8 | 108.2 | 98.9  | 91.7  |
| 75°    | 71.0  | 76.7  | 83.4  | 91.7  | 100.6 | 104.6 | 100.6 | 91.4  | 82.8  | 75.9  | 70.7  |
| 77.5°  | 51.6  | 54.7  | 59.9  | 66.1  | 71.6  | 74.6  | 71.2  | 65.0  | 59.7  | 55.0  | 52.4  |
| 80°    | 39.3  | 41.5  | 45.1  | 50.0  | 53.7  | 56.6  | 54.4  | 49.3  | 45.1  | 41.9  | 40.8  |
| 82.5°  | 28.6  | 30.1  | 32.4  | 36.0  | 38.5  | 40.1  | 39.1  | 35.3  | 33.6  | 30.9  | 29.8  |
| 85°    | 14.0  | 15.0  | 16.5  | 17.6  | 19.9  | 20.1  | 20.3  | 18.8  | 17.2  | 16.5  | 15.6  |
| 87.5°  | 5.7   | 6.1   | 7.1   | 7.9   | 9.0   | 9.4   | 9.5   | 9.8   | 9.3   | 9.3   | 8.8   |
| 90°    | 4.1   | 5.8   | 7.6   | 9.4   | 10.9  | 12.3  | 13.6  | 14.9  | 16.2  | 17.2  | 18.2  |
| 92.5°  | 9.4   | 9.5   | 9.6   | 9.7   | 10.4  | 11.7  | 13.0  | 14.3  | 15.6  | 16.6  | 17.6  |
| 95°    | 35.0  | 29.4  | 23.8  | 18.3  | 15.6  | 15.7  | 15.9  | 16.0  | 16.2  | 17.2  | 18.2  |
| 97.5°  | 89.5  | 93.0  | 96.5  | 100.0 | 92.6  | 74.3  | 56.0  | 37.7  | 19.4  | 19.5  | 19.7  |
| 100°   | 123.9 | 126.8 | 129.7 | 132.6 | 122.8 | 100.2 | 77.7  | 55.0  | 32.4  | 29.6  | 26.9  |
| 102.5° | 161.9 | 164.1 | 166.3 | 168.4 | 168.1 | 165.0 | 162.1 | 159.2 | 156.3 | 126.2 | 96.1  |
| 105°   | 222.8 | 223.8 | 224.8 | 225.7 | 226.7 | 227.4 | 228.3 | 229.1 | 229.9 | 231.4 | 232.9 |
| 107.5° | 279.9 | 280.4 | 281.0 | 281.4 | 282.2 | 283.3 | 284.5 | 285.6 | 286.7 | 287.4 | 288.1 |
| 110°   | 318.9 | 319.3 | 319.8 | 320.4 | 321.0 | 322.1 | 323.0 | 324.0 | 325.0 | 325.4 | 325.6 |





TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 356.9 | 357.9 | 358.7 | 359.7 | 360.3 | 360.8 | 361.2 | 361.7 | 362.1 | 362.1 | 362.0 |
| 115°   | 414.6 | 415.2 | 415.7 | 416.1 | 416.3 | 416.1 | 415.9 | 415.8 | 415.7 | 415.9 | 416.3 |
| 117.5° | 467.1 | 467.8 | 468.4 | 469.1 | 469.7 | 470.0 | 470.3 | 470.7 | 471.1 | 471.0 | 470.9 |
| 120°   | 502.6 | 503.2 | 503.9 | 504.4 | 504.7 | 504.5 | 504.4 | 504.3 | 504.1 | 504.4 | 504.7 |
| 122.5° | 535.3 | 535.6 | 536.0 | 536.5 | 536.8 | 537.0 | 537.2 | 537.4 | 537.7 | 537.9 | 538.1 |
| 125°   | 582.9 | 583.5 | 584.2 | 584.8 | 584.9 | 584.7 | 584.4 | 584.0 | 583.7 | 584.2 | 584.7 |
| 127.5° | 627.2 | 627.4 | 627.5 | 627.6 | 628.1 | 628.9 | 629.6 | 630.4 | 631.1 | 631.0 | 630.9 |
| 130°   | 656.1 | 656.2 | 656.4 | 656.6 | 656.9 | 657.3 | 657.9 | 658.4 | 658.8 | 659.0 | 659.2 |
| 132.5° | 682.7 | 683.1 | 683.3 | 683.6 | 684.1 | 684.7 | 685.3 | 685.9 | 686.5 | 686.7 | 686.9 |
| 135°   | 722.1 | 721.9 | 721.7 | 721.6 | 721.8 | 722.5 | 723.1 | 723.8 | 724.4 | 724.7 | 725.1 |
| 137.5° | 757.5 | 757.6 | 757.6 | 757.7 | 758.1 | 758.8 | 759.6 | 760.3 | 761.0 | 761.4 | 761.7 |
| 140°   | 780.8 | 781.1 | 781.5 | 781.7 | 782.1 | 782.4 | 782.8 | 783.1 | 783.3 | 783.9 | 784.4 |
| 142.5° | 801.6 | 802.3 | 802.9 | 803.4 | 803.8 | 804.0 | 804.3 | 804.5 | 804.6 | 805.0 | 805.3 |
| 145°   | 833.3 | 833.8 | 834.2 | 834.7 | 835.0 | 835.0 | 835.0 | 835.0 | 835.0 | 835.2 | 835.3 |
| 147.5° | 858.9 | 859.8 | 860.7 | 861.7 | 862.0 | 861.9 | 861.7 | 861.5 | 861.4 | 861.5 | 861.7 |
| 150°   | 876.9 | 877.6 | 878.3 | 878.8 | 879.1 | 878.9 | 878.8 | 878.6 | 878.4 | 878.4 | 878.4 |
| 152.5° | 892.1 | 892.6 | 893.2 | 893.7 | 893.8 | 893.5 | 893.2 | 892.9 | 892.6 | 892.9 | 893.2 |
| 155°   | 913.2 | 913.4 | 913.6 | 913.8 | 913.6 | 913.1 | 912.6 | 912.1 | 911.6 | 912.3 | 912.9 |
| 157.5° | 931.1 | 931.0 | 930.9 | 930.9 | 930.5 | 929.9 | 929.4 | 928.9 | 928.3 | 929.2 | 930.0 |
| 160°   | 941.3 | 940.8 | 940.4 | 939.9 | 939.5 | 939.4 | 939.2 | 939.1 | 938.9 | 939.9 | 940.8 |
| 162.5° | 950.6 | 950.0 | 949.4 | 948.8 | 948.4 | 948.2 | 948.1 | 947.9 | 947.7 | 948.8 | 949.7 |
| 165°   | 962.4 | 961.6 | 960.7 | 960.0 | 959.5 | 959.5 | 959.5 | 959.5 | 959.5 | 960.8 | 962.1 |
| 167.5° | 971.8 | 970.9 | 970.1 | 969.2 | 968.7 | 968.7 | 968.6 | 968.5 | 968.4 | 969.8 | 971.3 |
| 170°   | 976.9 | 976.0 | 975.0 | 974.0 | 973.6 | 973.7 | 973.9 | 974.1 | 974.3 | 975.5 | 976.9 |
| 172.5° | 980.5 | 979.5 | 978.5 | 977.6 | 977.1 | 977.3 | 977.5 | 977.6 | 977.8 | 979.1 | 980.4 |
| 175°   | 984.3 | 983.4 | 982.4 | 981.4 | 981.0 | 981.2 | 981.3 | 981.5 | 981.7 | 983.1 | 984.6 |
| 177.5° | 986.2 | 985.2 | 984.3 | 983.4 | 983.1 | 983.4 | 983.6 | 983.9 | 984.1 | 985.1 | 986.3 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |



TEST NUMBER: P332508-830  
 CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 | 538.5 |
| 2.5°   | 567.6 | 568.0 | 569.6 | 570.8 | 571.2 | 573.0 | 573.1 |
| 5°     | 617.5 | 621.2 | 628.6 | 629.2 | 630.4 | 636.2 | 631.7 |
| 7.5°   | 675.9 | 685.5 | 691.9 | 697.7 | 699.6 | 702.2 | 701.7 |
| 10°    | 713.4 | 727.6 | 734.8 | 746.2 | 746.6 | 749.5 | 747.7 |
| 12.5°  | 751.0 | 767.6 | 780.6 | 782.8 | 792.3 | 793.8 | 796.3 |
| 15°    | 804.4 | 822.0 | 840.1 | 846.6 | 859.7 | 862.8 | 867.7 |
| 17.5°  | 854.5 | 872.5 | 885.2 | 901.9 | 907.4 | 914.5 | 909.6 |
| 20°    | 882.0 | 901.6 | 917.8 | 930.9 | 936.4 | 940.5 | 940.0 |
| 22.5°  | 898.6 | 918.4 | 931.4 | 941.4 | 946.6 | 948.3 | 948.2 |
| 25°    | 909.0 | 920.4 | 924.4 | 928.2 | 922.4 | 920.4 | 921.2 |
| 27.5°  | 880.1 | 877.1 | 866.7 | 852.9 | 838.7 | 827.4 | 821.1 |
| 30°    | 840.3 | 822.9 | 807.1 | 779.4 | 765.2 | 756.7 | 749.0 |
| 32.5°  | 783.9 | 756.3 | 725.9 | 700.5 | 684.3 | 671.8 | 669.9 |
| 35°    | 687.3 | 645.8 | 608.5 | 577.5 | 561.5 | 547.9 | 544.7 |
| 37.5°  | 584.3 | 541.2 | 507.7 | 480.3 | 463.1 | 453.5 | 444.5 |
| 40°    | 515.9 | 478.9 | 445.9 | 422.7 | 409.5 | 402.7 | 397.1 |
| 42.5°  | 463.4 | 429.5 | 396.6 | 379.0 | 367.1 | 362.9 | 359.6 |
| 45°    | 390.6 | 359.1 | 336.4 | 323.0 | 316.1 | 309.0 | 305.6 |
| 47.5°  | 332.3 | 306.8 | 291.8 | 280.4 | 273.0 | 268.7 | 266.6 |
| 50°    | 299.4 | 278.4 | 265.0 | 256.3 | 249.6 | 246.3 | 244.5 |
| 52.5°  | 270.1 | 252.9 | 241.7 | 234.7 | 230.2 | 227.7 | 227.0 |
| 55°    | 232.6 | 219.5 | 212.4 | 206.3 | 203.0 | 200.8 | 199.9 |
| 57.5°  | 202.3 | 192.1 | 186.3 | 181.3 | 180.0 | 178.2 | 177.6 |
| 60°    | 182.3 | 174.5 | 169.6 | 166.2 | 165.0 | 162.9 | 163.2 |
| 62.5°  | 164.6 | 158.2 | 154.0 | 152.1 | 150.6 | 148.7 | 149.4 |
| 65°    | 139.2 | 134.5 | 132.2 | 130.5 | 128.8 | 127.6 | 128.5 |
| 67.5°  | 116.8 | 113.6 | 110.6 | 109.5 | 108.7 | 108.5 | 107.5 |
| 70°    | 102.2 | 99.5  | 96.8  | 96.1  | 96.1  | 95.3  | 95.0  |
| 72.5°  | 88.0  | 86.1  | 84.4  | 83.8  | 83.1  | 83.5  | 82.6  |
| 75°    | 68.1  | 66.4  | 65.8  | 65.1  | 64.9  | 64.9  | 64.3  |
| 77.5°  | 50.2  | 49.1  | 48.1  | 48.1  | 47.2  | 46.9  | 46.8  |
| 80°    | 38.2  | 37.7  | 36.9  | 36.9  | 36.4  | 36.6  | 36.1  |
| 82.5°  | 28.7  | 28.1  | 27.9  | 27.5  | 26.9  | 27.0  | 26.5  |
| 85°    | 15.4  | 14.7  | 14.5  | 13.9  | 13.4  | 13.9  | 13.4  |
| 87.5°  | 9.1   | 9.2   | 9.1   | 8.9   | 8.8   | 8.9   | 8.4   |
| 90°    | 19.1  | 20.2  | 20.8  | 21.1  | 21.5  | 21.8  | 22.1  |
| 92.5°  | 18.6  | 19.5  | 20.1  | 20.2  | 20.2  | 20.3  | 20.4  |
| 95°    | 19.1  | 20.2  | 20.7  | 20.9  | 21.0  | 21.2  | 21.4  |
| 97.5°  | 19.8  | 19.9  | 20.0  | 20.2  | 20.3  | 20.5  | 20.6  |
| 100°   | 24.0  | 21.3  | 20.0  | 20.2  | 20.3  | 20.5  | 20.6  |
| 102.5° | 66.2  | 36.1  | 21.1  | 21.1  | 21.1  | 21.2  | 21.2  |
| 105°   | 234.3 | 235.8 | 233.7 | 227.7 | 221.8 | 215.9 | 210.0 |
| 107.5° | 288.8 | 289.5 | 290.2 | 290.9 | 291.4 | 292.1 | 292.8 |
| 110°   | 326.0 | 326.3 | 326.7 | 327.3 | 327.7 | 328.2 | 328.7 |



TEST NUMBER: P332508-830

CATALOG NUMBER: SA4XXDIP-C350D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 361.9 | 361.8 | 362.1 | 362.8 | 363.4 | 364.0 | 364.7 |
| 115°   | 416.6 | 417.0 | 417.2 | 417.2 | 417.2 | 417.2 | 417.2 |
| 117.5° | 470.9 | 470.8 | 470.7 | 470.7 | 470.6 | 470.5 | 470.5 |
| 120°   | 505.1 | 505.4 | 505.4 | 505.1 | 504.7 | 504.4 | 504.1 |
| 122.5° | 538.3 | 538.5 | 538.4 | 538.1 | 537.7 | 537.4 | 537.1 |
| 125°   | 585.1 | 585.6 | 586.0 | 586.2 | 586.3 | 586.4 | 586.6 |
| 127.5° | 630.8 | 630.7 | 630.7 | 630.5 | 630.4 | 630.3 | 630.1 |
| 130°   | 659.3 | 659.5 | 659.6 | 659.6 | 659.6 | 659.6 | 659.6 |
| 132.5° | 687.0 | 687.2 | 687.2 | 687.1 | 686.9 | 686.8 | 686.7 |
| 135°   | 725.4 | 725.8 | 726.0 | 726.4 | 726.7 | 727.1 | 727.4 |
| 137.5° | 762.0 | 762.4 | 762.5 | 762.4 | 762.3 | 762.2 | 762.1 |
| 140°   | 784.9 | 785.3 | 785.7 | 785.9 | 786.0 | 786.2 | 786.4 |
| 142.5° | 805.7 | 806.1 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 |
| 145°   | 835.5 | 835.7 | 835.8 | 836.2 | 836.5 | 836.9 | 837.2 |
| 147.5° | 861.8 | 861.9 | 862.0 | 862.2 | 862.3 | 862.5 | 862.7 |
| 150°   | 878.4 | 878.4 | 878.5 | 878.7 | 878.8 | 879.0 | 879.2 |
| 152.5° | 893.4 | 893.6 | 893.7 | 893.6 | 893.5 | 893.4 | 893.3 |
| 155°   | 913.6 | 914.3 | 914.4 | 913.8 | 913.3 | 912.9 | 912.4 |
| 157.5° | 930.9 | 931.7 | 931.7 | 930.9 | 930.0 | 929.2 | 928.3 |
| 160°   | 941.9 | 942.8 | 942.8 | 941.9 | 940.8 | 939.9 | 938.9 |
| 162.5° | 950.6 | 951.7 | 951.6 | 950.5 | 949.3 | 948.3 | 947.2 |
| 165°   | 963.5 | 964.8 | 964.7 | 963.2 | 961.8 | 960.3 | 958.8 |
| 167.5° | 972.7 | 974.1 | 974.0 | 972.4 | 970.7 | 969.1 | 967.5 |
| 170°   | 978.2 | 979.5 | 979.3 | 977.7 | 976.1 | 974.4 | 972.8 |
| 172.5° | 981.8 | 983.1 | 982.8 | 981.1 | 979.3 | 977.5 | 975.7 |
| 175°   | 986.1 | 987.5 | 987.3 | 985.3 | 983.4 | 981.4 | 979.4 |
| 177.5° | 987.3 | 988.4 | 988.1 | 986.5 | 985.0 | 983.4 | 981.8 |
| 180°   | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 | 985.3 |

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