

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: P331465-840

Luminaire Tested: **S122DIW-S290D435U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331465-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S290D435U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3066.5 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

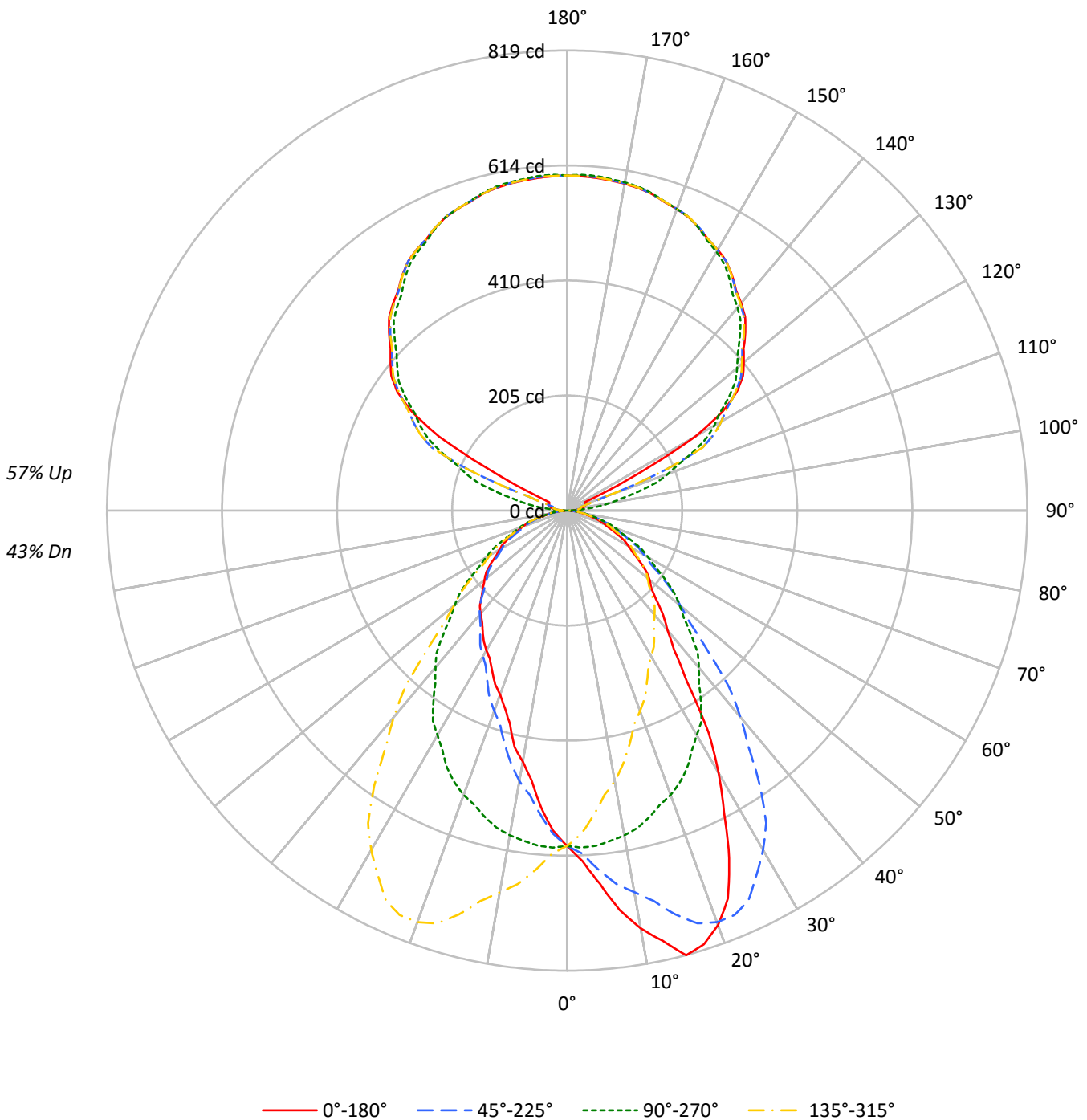
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331465-840

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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1   | 97  | 92  | 89  | 85  | 88 | 85 | 82 | 79 | 70 | 68 | 66 | 57 | 55 | 54 | 45 | 44 | 43 | 37 |
| 2   | 88  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 62 | 58 | 55 | 50 | 48 | 46 | 40 | 38 | 37 | 32 |
| 3   | 81  | 72  | 65  | 59  | 74 | 66 | 60 | 55 | 55 | 51 | 47 | 45 | 42 | 39 | 36 | 33 | 32 | 27 |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 49 | 44 | 40 | 40 | 37 | 34 | 32 | 30 | 28 | 24 |
| 5   | 68  | 57  | 49  | 43  | 62 | 53 | 46 | 41 | 44 | 39 | 35 | 36 | 33 | 30 | 29 | 26 | 24 | 21 |
| 6   | 63  | 51  | 43  | 38  | 57 | 47 | 40 | 35 | 40 | 35 | 31 | 33 | 29 | 26 | 26 | 24 | 22 | 19 |
| 7   | 58  | 46  | 39  | 33  | 53 | 43 | 36 | 31 | 36 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 19 | 17 |
| 8   | 54  | 42  | 35  | 29  | 49 | 39 | 32 | 28 | 33 | 28 | 24 | 28 | 24 | 21 | 22 | 20 | 17 | 15 |
| 9   | 50  | 38  | 31  | 26  | 46 | 36 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10  | 47  | 35  | 28  | 24  | 43 | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 19 | 17 | 14 | 13 |

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

|     | 0°    | 90°  | 180° | 270° |
|-----|-------|------|------|------|
| 0°  | 9637  | 9637 | 9637 | 9637 |
| 5°  | 10804 | 9700 | 8596 | 9700 |
| 10° | 12381 | 9621 | 7438 | 9621 |
| 15° | 13697 | 9444 | 6572 | 9444 |
| 20° | 13490 | 9256 | 5991 | 9256 |
| 25° | 12162 | 9002 | 5624 | 9002 |
| 30° | 10051 | 8600 | 5354 | 8600 |
| 35° | 7324  | 8180 | 5164 | 8180 |
| 40° | 5851  | 7685 | 5056 | 7685 |
| 45° | 5112  | 7108 | 4914 | 7108 |
| 50° | 4808  | 6551 | 4818 | 6551 |
| 55° | 4428  | 5987 | 4687 | 5987 |
| 60° | 4059  | 5383 | 4492 | 5383 |
| 65° | 3698  | 4844 | 4294 | 4844 |
| 70° | 3356  | 4319 | 4008 | 4319 |
| 75° | 2982  | 3737 | 3550 | 3737 |
| 80° | 2566  | 3087 | 2854 | 3087 |
| 85° | 2297  | 2297 | 1704 | 2297 |



TEST NUMBER: P331465-840

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.8   | 1.9       |
| 10°-20°   | 165.3  | 5.4       |
| 20°-30°   | 239.9  | 7.8       |
| 30°-40°   | 253.1  | 8.3       |
| 40°-50°   | 224.1  | 7.3       |
| 50°-60°   | 178.8  | 5.8       |
| 60°-70°   | 121.6  | 4.0       |
| 70°-80°   | 62.3   | 2.0       |
| 80°-90°   | 16.5   | 0.5       |
| 90°-100°  | 19.9   | 0.6       |
| 100°-110° | 73.0   | 2.4       |
| 110°-120° | 195.0  | 6.4       |
| 120°-130° | 322.0  | 10.5      |
| 130°-140° | 342.4  | 11.2      |
| 140°-150° | 318.3  | 10.4      |
| 150°-160° | 255.9  | 8.3       |
| 160°-170° | 164.9  | 5.4       |
| 170°-180° | 56.8   | 1.9       |
| 0°-30°    | 462.0  | 15.1      |
| 0°-40°    | 715.1  | 23.3      |
| 0°-60°    | 1118.0 | 36.5      |
| 0°-90°    | 1318.4 | 43.0      |
| 90°-120°  | 287.9  | 9.4       |
| 90°-150°  | 1270.6 | 41.4      |
| 90°-180°  | 1748.0 | 57.0      |
| 0°-180°   | 3066.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 597 | 597 | 597  | 597  | 597  |      |
| 5°   | 667 | 598 | 530  | 598  | 667  | 67   |
| 15°  | 819 | 565 | 393  | 565  | 819  | 226  |
| 25°  | 683 | 505 | 316  | 505  | 683  | 309  |
| 35°  | 372 | 415 | 262  | 415  | 372  | 242  |
| 45°  | 224 | 311 | 215  | 311  | 224  | 176  |
| 55°  | 157 | 213 | 166  | 213  | 157  | 141  |
| 65°  | 97  | 127 | 112  | 127  | 97   | 96   |
| 75°  | 48  | 60  | 57   | 60   | 48   | 51   |
| 85°  | 12  | 12  | 9    | 12   | 12   | 14   |
| 90°  | 12  | 0   | 12   | 0    | 12   | 6    |
| 95°  | 19  | 28  | 19   | 28   | 19   | 17   |
| 105° | 33  | 131 | 33   | 131  | 33   | 34   |
| 115° | 35  | 248 | 35   | 248  | 35   | 89   |
| 125° | 369 | 351 | 369  | 351  | 369  | 319  |
| 135° | 448 | 434 | 448  | 434  | 448  | 346  |
| 145° | 512 | 504 | 512  | 504  | 512  | 320  |
| 155° | 555 | 555 | 555  | 555  | 555  | 256  |
| 165° | 583 | 584 | 583  | 584  | 583  | 165  |
| 175° | 594 | 598 | 594  | 598  | 594  | 57   |
| 180° | 596 | 596 | 596  | 596  | 596  |      |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 624.4 | 624.6 | 625.0 | 622.1 | 621.7 | 621.7 | 619.1 | 616.9 | 614.3 | 610.9 | 611.3 |
| 5°     | 666.6 | 669.1 | 670.0 | 667.3 | 663.2 | 662.8 | 658.8 | 652.5 | 646.4 | 641.7 | 638.2 |
| 7.5°   | 717.0 | 718.0 | 715.8 | 712.2 | 709.1 | 703.6 | 696.3 | 689.2 | 679.2 | 670.1 | 663.4 |
| 10°    | 755.2 | 756.6 | 752.7 | 747.4 | 743.1 | 736.6 | 726.1 | 715.3 | 702.3 | 689.6 | 679.5 |
| 12.5°  | 784.2 | 787.6 | 782.5 | 781.9 | 774.5 | 765.6 | 753.1 | 747.6 | 729.2 | 711.7 | 700.7 |
| 15°    | 819.4 | 819.2 | 819.7 | 815.3 | 809.8 | 808.4 | 795.2 | 780.6 | 754.8 | 744.4 | 726.5 |
| 17.5°  | 809.2 | 812.7 | 814.4 | 814.3 | 814.2 | 813.2 | 809.0 | 799.9 | 786.9 | 770.1 | 749.5 |
| 20°    | 785.1 | 789.6 | 790.3 | 795.6 | 798.6 | 802.4 | 804.1 | 801.5 | 793.6 | 779.5 | 761.6 |
| 22.5°  | 747.6 | 748.9 | 751.0 | 759.2 | 765.7 | 775.5 | 780.5 | 789.1 | 786.0 | 779.1 | 764.2 |
| 25°    | 682.7 | 680.4 | 688.4 | 692.6 | 707.5 | 723.1 | 734.4 | 746.7 | 757.7 | 764.4 | 760.0 |
| 27.5°  | 604.8 | 601.4 | 613.4 | 624.4 | 636.4 | 653.4 | 670.9 | 691.6 | 708.7 | 730.3 | 737.7 |
| 30°    | 539.1 | 541.2 | 552.6 | 564.3 | 582.7 | 606.5 | 626.3 | 648.9 | 673.6 | 697.6 | 714.4 |
| 32.5°  | 468.3 | 476.2 | 483.4 | 501.4 | 517.6 | 544.1 | 573.1 | 601.5 | 632.1 | 659.4 | 685.4 |
| 35°    | 371.6 | 380.8 | 390.9 | 403.9 | 426.7 | 453.0 | 481.3 | 519.6 | 561.4 | 598.7 | 629.4 |
| 37.5°  | 312.9 | 311.3 | 317.1 | 326.6 | 345.0 | 366.3 | 398.8 | 436.6 | 485.7 | 529.7 | 573.1 |
| 40°    | 277.6 | 276.7 | 280.7 | 289.5 | 303.5 | 319.1 | 347.6 | 380.8 | 426.5 | 480.2 | 531.8 |
| 42.5°  | 253.4 | 253.9 | 256.2 | 262.4 | 272.0 | 284.8 | 306.1 | 334.4 | 376.2 | 426.8 | 482.2 |
| 45°    | 223.9 | 225.5 | 228.0 | 231.1 | 236.5 | 247.1 | 259.0 | 279.2 | 312.3 | 354.5 | 409.0 |
| 47.5°  | 202.7 | 202.8 | 205.3 | 207.9 | 211.2 | 217.1 | 226.9 | 239.5 | 262.9 | 297.2 | 344.2 |
| 50°    | 191.4 | 189.8 | 191.6 | 193.6 | 197.0 | 201.2 | 207.6 | 219.5 | 235.1 | 262.9 | 302.2 |
| 52.5°  | 177.3 | 177.4 | 179.0 | 179.9 | 182.9 | 187.0 | 192.9 | 201.2 | 215.3 | 237.0 | 269.2 |
| 55°    | 157.3 | 158.5 | 159.5 | 160.8 | 163.6 | 166.5 | 171.2 | 176.6 | 187.6 | 203.9 | 227.8 |
| 57.5°  | 138.6 | 139.0 | 139.9 | 142.5 | 144.2 | 146.9 | 151.3 | 156.3 | 163.5 | 175.5 | 193.5 |
| 60°    | 125.7 | 125.7 | 127.5 | 128.7 | 131.0 | 133.7 | 137.1 | 142.0 | 148.5 | 158.2 | 172.8 |
| 62.5°  | 114.0 | 113.8 | 114.5 | 116.4 | 118.2 | 120.7 | 124.1 | 128.3 | 134.3 | 143.1 | 154.9 |
| 65°    | 96.8  | 96.3  | 97.8  | 98.2  | 100.0 | 102.5 | 105.3 | 109.7 | 114.5 | 120.9 | 131.5 |
| 67.5°  | 80.3  | 80.9  | 81.6  | 82.4  | 83.4  | 86.1  | 88.0  | 91.0  | 95.1  | 100.5 | 107.6 |
| 70°    | 71.1  | 71.1  | 71.1  | 71.8  | 73.2  | 74.5  | 76.3  | 78.9  | 82.8  | 87.4  | 93.8  |
| 72.5°  | 60.8  | 61.6  | 62.3  | 61.9  | 63.6  | 64.4  | 66.7  | 68.1  | 71.8  | 74.7  | 80.4  |
| 75°    | 47.8  | 47.8  | 47.8  | 48.9  | 49.6  | 50.2  | 51.6  | 53.0  | 54.8  | 58.5  | 61.5  |
| 77.5°  | 35.6  | 35.5  | 35.7  | 36.1  | 36.8  | 37.6  | 38.0  | 39.2  | 40.9  | 42.6  | 45.1  |
| 80°    | 27.6  | 28.0  | 28.2  | 28.7  | 28.7  | 29.1  | 29.4  | 31.0  | 32.1  | 33.2  | 34.8  |
| 82.5°  | 21.3  | 21.4  | 21.4  | 21.5  | 21.7  | 22.0  | 22.6  | 23.1  | 23.5  | 24.4  | 25.7  |
| 85°    | 12.4  | 12.1  | 12.1  | 12.6  | 12.4  | 12.4  | 12.8  | 13.3  | 13.3  | 13.5  | 14.2  |
| 87.5°  | 7.1   | 7.1   | 7.2   | 7.0   | 7.0   | 7.1   | 7.0   | 6.7   | 6.8   | 6.9   | 6.9   |
| 90°    | 11.6  | 11.5  | 11.3  | 11.1  | 10.9  | 10.5  | 10.1  | 9.6   | 9.1   | 8.6   | 7.9   |
| 92.5°  | 11.6  | 11.5  | 11.4  | 11.3  | 11.2  | 11.0  | 10.8  | 10.5  | 10.3  | 10.0  | 9.6   |
| 95°    | 18.6  | 18.7  | 18.8  | 18.9  | 19.0  | 18.8  | 18.3  | 17.8  | 17.3  | 16.9  | 16.2  |
| 97.5°  | 24.7  | 24.6  | 24.5  | 24.4  | 24.3  | 24.0  | 23.7  | 23.3  | 22.9  | 22.5  | 21.0  |
| 100°   | 28.9  | 28.7  | 28.6  | 28.4  | 28.2  | 27.7  | 26.9  | 26.2  | 25.3  | 24.6  | 22.9  |
| 102.5° | 31.0  | 30.7  | 30.5  | 30.2  | 29.9  | 29.3  | 28.3  | 27.3  | 26.3  | 25.2  | 39.0  |
| 105°   | 32.8  | 32.4  | 32.0  | 31.6  | 31.3  | 30.6  | 29.5  | 28.5  | 27.4  | 26.4  | 52.5  |
| 107.5° | 33.7  | 33.3  | 33.0  | 32.6  | 32.2  | 32.5  | 33.6  | 34.7  | 35.7  | 36.9  | 68.3  |
| 110°   | 34.1  | 33.7  | 33.3  | 32.9  | 32.5  | 37.2  | 46.8  | 56.4  | 65.9  | 75.5  | 103.2 |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 34.4  | 34.1  | 33.8  | 33.5  | 33.2  | 50.6  | 85.5  | 120.6 | 155.5 | 190.6 | 197.3 |
| 115°   | 35.3  | 42.3  | 49.2  | 56.1  | 63.0  | 88.7  | 133.1 | 177.5 | 221.9 | 266.3 | 263.9 |
| 117.5° | 144.5 | 167.2 | 189.9 | 212.6 | 235.3 | 252.0 | 262.8 | 273.5 | 284.3 | 295.0 | 293.4 |
| 120°   | 263.3 | 276.2 | 289.2 | 302.2 | 315.1 | 321.0 | 319.8 | 318.7 | 317.5 | 316.4 | 314.7 |
| 122.5° | 328.5 | 331.0 | 333.6 | 336.1 | 338.6 | 339.5 | 338.8 | 338.1 | 337.5 | 336.8 | 334.9 |
| 125°   | 369.0 | 368.8 | 368.5 | 368.2 | 367.9 | 367.4 | 366.8 | 366.1 | 365.4 | 364.8 | 362.9 |
| 127.5° | 394.6 | 394.6 | 394.5 | 394.5 | 394.4 | 393.8 | 392.8 | 391.9 | 390.9 | 389.9 | 388.6 |
| 130°   | 410.5 | 410.6 | 410.7 | 410.8 | 410.9 | 410.4 | 409.3 | 408.3 | 407.2 | 406.2 | 405.2 |
| 132.5° | 426.1 | 426.2 | 426.2 | 426.3 | 426.4 | 426.0 | 425.1 | 424.2 | 423.3 | 422.4 | 421.3 |
| 135°   | 448.5 | 448.7 | 448.9 | 449.1 | 449.2 | 448.9 | 447.9 | 447.0 | 446.0 | 445.0 | 444.1 |
| 137.5° | 468.9 | 469.3 | 469.6 | 469.9 | 470.2 | 469.9 | 469.0 | 468.1 | 467.1 | 466.2 | 465.1 |
| 140°   | 481.7 | 482.2 | 482.6 | 483.1 | 483.6 | 483.4 | 482.6 | 481.7 | 480.8 | 480.0 | 478.9 |
| 142.5° | 494.1 | 494.6 | 495.1 | 495.5 | 496.0 | 495.9 | 495.1 | 494.3 | 493.5 | 492.7 | 491.5 |
| 145°   | 511.5 | 512.0 | 512.4 | 512.9 | 513.4 | 513.3 | 512.6 | 512.0 | 511.3 | 510.6 | 509.0 |
| 147.5° | 526.7 | 527.1 | 527.6 | 528.0 | 528.4 | 528.4 | 527.9 | 527.4 | 526.8 | 526.3 | 524.7 |
| 150°   | 536.1 | 536.5 | 537.0 | 537.6 | 538.1 | 538.0 | 537.3 | 536.8 | 536.2 | 535.6 | 534.1 |
| 152.5° | 544.0 | 544.6 | 545.3 | 545.9 | 546.5 | 546.6 | 546.0 | 545.4 | 544.8 | 544.3 | 542.8 |
| 155°   | 555.1 | 555.8 | 556.6 | 557.3 | 558.2 | 558.3 | 557.6 | 557.1 | 556.5 | 555.9 | 554.8 |
| 157.5° | 565.2 | 565.9 | 566.6 | 567.4 | 568.2 | 568.3 | 567.5 | 566.9 | 566.2 | 565.6 | 564.8 |
| 160°   | 571.1 | 571.7 | 572.4 | 573.1 | 573.7 | 573.8 | 573.2 | 572.6 | 572.1 | 571.5 | 570.9 |
| 162.5° | 575.9 | 576.7 | 577.5 | 578.3 | 579.2 | 579.3 | 578.7 | 577.9 | 577.3 | 576.6 | 576.1 |
| 165°   | 583.1 | 583.8 | 584.5 | 585.1 | 585.8 | 585.8 | 585.1 | 584.5 | 583.8 | 583.1 | 582.9 |
| 167.5° | 587.7 | 588.5 | 589.5 | 590.3 | 591.2 | 591.3 | 590.6 | 590.0 | 589.3 | 588.5 | 588.3 |
| 170°   | 590.5 | 591.4 | 592.2 | 593.1 | 593.9 | 594.0 | 593.4 | 592.7 | 592.0 | 591.4 | 591.2 |
| 172.5° | 592.6 | 593.4 | 594.3 | 595.1 | 596.0 | 596.1 | 595.4 | 594.7 | 594.1 | 593.4 | 593.2 |
| 175°   | 594.4 | 595.3 | 596.3 | 597.2 | 598.2 | 598.3 | 597.6 | 597.0 | 596.3 | 595.6 | 595.4 |
| 177.5° | 595.5 | 596.1 | 596.8 | 597.5 | 598.2 | 598.3 | 597.7 | 597.2 | 596.7 | 596.1 | 596.1 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 612.5 | 611.1 | 610.2 | 606.8 | 603.9 | 601.0 | 600.1 | 600.4 | 596.3 | 592.5 | 590.9 |
| 5°     | 636.4 | 631.8 | 627.4 | 621.3 | 613.9 | 605.8 | 601.8 | 598.5 | 590.5 | 581.8 | 576.7 |
| 7.5°   | 657.7 | 651.2 | 642.8 | 631.2 | 620.5 | 607.8 | 599.8 | 592.7 | 581.0 | 568.7 | 561.1 |
| 10°    | 670.8 | 661.9 | 651.1 | 636.8 | 623.8 | 608.3 | 597.6 | 586.8 | 573.1 | 558.4 | 549.2 |
| 12.5°  | 682.0 | 669.9 | 659.3 | 641.1 | 625.6 | 606.3 | 593.6 | 578.3 | 563.9 | 546.4 | 537.5 |
| 15°    | 708.6 | 686.4 | 666.2 | 645.5 | 626.5 | 599.7 | 585.4 | 565.0 | 546.0 | 524.4 | 514.1 |
| 17.5°  | 729.2 | 704.2 | 672.5 | 646.2 | 624.0 | 594.2 | 573.4 | 549.0 | 526.4 | 501.8 | 487.8 |
| 20°    | 740.9 | 712.3 | 678.1 | 646.9 | 620.4 | 586.3 | 563.6 | 538.7 | 512.3 | 484.5 | 469.4 |
| 22.5°  | 747.9 | 717.8 | 684.0 | 644.2 | 613.0 | 580.0 | 551.4 | 523.9 | 497.3 | 467.3 | 451.4 |
| 25°    | 750.1 | 722.7 | 686.8 | 641.9 | 603.8 | 566.4 | 532.0 | 505.3 | 473.0 | 445.0 | 421.9 |
| 27.5°  | 739.2 | 719.5 | 685.1 | 637.5 | 593.2 | 549.5 | 511.1 | 481.0 | 446.9 | 416.5 | 393.1 |
| 30°    | 725.8 | 714.4 | 680.9 | 633.2 | 584.7 | 537.8 | 495.5 | 461.3 | 427.4 | 396.7 | 372.7 |
| 32.5°  | 705.1 | 702.7 | 673.2 | 626.9 | 575.7 | 522.9 | 479.2 | 444.6 | 407.0 | 376.8 | 354.1 |
| 35°    | 664.4 | 675.4 | 656.8 | 613.0 | 558.9 | 501.7 | 454.4 | 415.0 | 376.0 | 347.1 | 325.8 |
| 37.5°  | 609.8 | 637.1 | 632.3 | 592.6 | 535.9 | 478.7 | 426.5 | 385.3 | 348.1 | 318.9 | 298.0 |
| 40°    | 572.1 | 607.0 | 612.1 | 576.9 | 519.9 | 460.9 | 405.6 | 364.6 | 328.3 | 301.6 | 280.5 |
| 42.5°  | 531.8 | 572.5 | 586.3 | 558.3 | 502.2 | 442.1 | 386.9 | 344.4 | 308.4 | 282.6 | 263.9 |
| 45°    | 464.1 | 518.0 | 543.0 | 526.9 | 472.8 | 411.3 | 354.5 | 311.3 | 278.7 | 254.4 | 239.9 |
| 47.5°  | 400.8 | 459.7 | 493.3 | 487.7 | 440.1 | 379.2 | 323.0 | 281.6 | 249.8 | 230.5 | 217.5 |
| 50°    | 356.1 | 416.6 | 457.2 | 459.1 | 416.6 | 356.3 | 299.8 | 260.8 | 231.7 | 213.6 | 203.0 |
| 52.5°  | 317.1 | 375.0 | 419.2 | 429.0 | 390.3 | 332.4 | 279.1 | 240.2 | 214.6 | 197.9 | 188.5 |
| 55°    | 266.3 | 315.2 | 364.3 | 382.2 | 351.2 | 296.2 | 246.8 | 212.7 | 188.5 | 177.1 | 168.8 |
| 57.5°  | 221.5 | 262.2 | 307.5 | 327.3 | 308.2 | 261.1 | 214.8 | 185.1 | 165.6 | 155.5 | 149.2 |
| 60°    | 197.7 | 229.8 | 270.2 | 293.9 | 277.3 | 235.4 | 195.0 | 166.7 | 150.7 | 141.8 | 135.8 |
| 62.5°  | 175.7 | 204.2 | 238.3 | 259.9 | 251.0 | 211.4 | 175.2 | 150.3 | 136.4 | 128.1 | 123.7 |
| 65°    | 145.0 | 167.4 | 193.9 | 213.8 | 207.8 | 177.8 | 148.1 | 126.8 | 115.8 | 109.2 | 105.7 |
| 67.5°  | 119.4 | 135.6 | 153.9 | 171.4 | 166.6 | 145.3 | 121.6 | 104.9 | 96.7  | 91.0  | 88.9  |
| 70°    | 103.2 | 115.6 | 131.9 | 145.9 | 142.0 | 124.6 | 105.7 | 91.5  | 84.4  | 79.6  | 77.6  |
| 72.5°  | 87.9  | 98.0  | 110.5 | 121.9 | 119.3 | 104.7 | 89.1  | 78.4  | 72.8  | 68.4  | 66.8  |
| 75°    | 66.3  | 74.1  | 81.7  | 89.3  | 88.6  | 77.4  | 68.2  | 59.9  | 55.5  | 52.1  | 51.4  |
| 77.5°  | 49.0  | 53.3  | 58.5  | 62.9  | 61.7  | 55.2  | 48.1  | 43.3  | 40.2  | 37.9  | 37.5  |
| 80°    | 37.4  | 39.9  | 43.6  | 46.8  | 45.2  | 42.4  | 36.7  | 33.2  | 31.0  | 28.7  | 27.8  |
| 82.5°  | 27.2  | 29.6  | 31.8  | 33.6  | 32.3  | 29.8  | 26.3  | 23.9  | 22.5  | 21.0  | 20.6  |
| 85°    | 14.2  | 15.6  | 16.6  | 17.0  | 16.6  | 14.9  | 13.3  | 12.4  | 11.2  | 10.5  | 10.3  |
| 87.5°  | 7.0   | 6.8   | 6.7   | 6.8   | 6.1   | 5.9   | 4.8   | 4.1   | 4.1   | 4.1   | 4.0   |
| 90°    | 7.1   | 6.4   | 5.6   | 4.6   | 3.6   | 2.5   | 1.5   | 0.4   | 1.5   | 2.5   | 3.6   |
| 92.5°  | 9.3   | 8.9   | 8.5   | 8.4   | 8.4   | 8.5   | 8.6   | 8.7   | 8.6   | 8.5   | 8.4   |
| 95°    | 15.5  | 14.8  | 14.1  | 15.3  | 18.6  | 21.7  | 24.8  | 28.1  | 24.8  | 21.7  | 18.6  |
| 97.5°  | 19.4  | 17.9  | 16.4  | 20.0  | 28.9  | 37.9  | 46.8  | 55.6  | 46.8  | 37.9  | 28.9  |
| 100°   | 21.3  | 19.7  | 18.1  | 23.8  | 37.0  | 50.1  | 63.2  | 76.4  | 63.2  | 50.1  | 37.0  |
| 102.5° | 52.6  | 66.2  | 79.9  | 88.1  | 90.9  | 93.6  | 96.4  | 99.2  | 96.4  | 93.6  | 90.9  |
| 105°   | 78.7  | 104.9 | 131.1 | 142.7 | 139.9 | 136.9 | 134.1 | 131.2 | 134.1 | 136.9 | 139.9 |
| 107.5° | 99.7  | 131.1 | 162.5 | 177.0 | 174.7 | 172.4 | 170.1 | 167.7 | 170.1 | 172.4 | 174.7 |
| 110°   | 131.0 | 158.6 | 186.4 | 199.2 | 197.2 | 195.2 | 193.2 | 191.2 | 193.2 | 195.2 | 197.2 |





TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 204.2 | 211.1 | 217.9 | 220.5 | 218.6 | 216.9 | 215.1 | 213.3 | 215.1 | 216.9 | 218.6 |
| 115°   | 261.6 | 259.1 | 256.7 | 254.7 | 253.1 | 251.5 | 249.8 | 248.2 | 249.8 | 251.5 | 253.1 |
| 117.5° | 291.6 | 290.0 | 288.4 | 286.6 | 284.8 | 283.0 | 281.1 | 279.3 | 281.1 | 283.0 | 284.8 |
| 120°   | 313.0 | 311.2 | 309.5 | 307.9 | 306.5 | 305.0 | 303.6 | 302.2 | 303.6 | 305.0 | 306.5 |
| 122.5° | 333.0 | 331.1 | 329.2 | 327.5 | 326.0 | 324.5 | 323.0 | 321.4 | 323.0 | 324.5 | 326.0 |
| 125°   | 361.1 | 359.3 | 357.4 | 355.9 | 354.7 | 353.5 | 352.1 | 350.9 | 352.1 | 353.5 | 354.7 |
| 127.5° | 387.2 | 385.9 | 384.5 | 383.1 | 381.7 | 380.3 | 379.0 | 377.6 | 379.0 | 380.3 | 381.7 |
| 130°   | 404.0 | 403.0 | 401.9 | 400.6 | 399.1 | 397.6 | 396.1 | 394.6 | 396.1 | 397.6 | 399.1 |
| 132.5° | 420.3 | 419.2 | 418.2 | 417.0 | 415.7 | 414.3 | 413.0 | 411.8 | 413.0 | 414.3 | 415.7 |
| 135°   | 443.3 | 442.4 | 441.5 | 440.4 | 438.8 | 437.3 | 435.8 | 434.2 | 435.8 | 437.3 | 438.8 |
| 137.5° | 464.2 | 463.2 | 462.2 | 461.2 | 460.2 | 459.1 | 458.0 | 457.0 | 458.0 | 459.1 | 460.2 |
| 140°   | 477.9 | 476.9 | 475.7 | 474.8 | 474.0 | 473.3 | 472.5 | 471.8 | 472.5 | 473.3 | 474.0 |
| 142.5° | 490.3 | 489.1 | 488.0 | 487.0 | 486.3 | 485.5 | 484.9 | 484.2 | 484.9 | 485.5 | 486.3 |
| 145°   | 507.4 | 505.7 | 504.1 | 503.3 | 503.4 | 503.5 | 503.6 | 503.7 | 503.6 | 503.5 | 503.4 |
| 147.5° | 523.1 | 521.5 | 519.9 | 519.3 | 519.7 | 520.0 | 520.4 | 520.7 | 520.4 | 520.0 | 519.7 |
| 150°   | 532.6 | 531.1 | 529.5 | 529.1 | 529.8 | 530.4 | 531.1 | 531.8 | 531.1 | 530.4 | 529.8 |
| 152.5° | 541.4 | 539.9 | 538.5 | 538.1 | 538.9 | 539.6 | 540.4 | 541.1 | 540.4 | 539.6 | 538.9 |
| 155°   | 553.6 | 552.5 | 551.4 | 551.2 | 552.1 | 552.9 | 553.8 | 554.6 | 553.8 | 552.9 | 552.1 |
| 157.5° | 564.0 | 563.2 | 562.4 | 562.4 | 563.1 | 563.8 | 564.5 | 565.2 | 564.5 | 563.8 | 563.1 |
| 160°   | 570.4 | 569.8 | 569.2 | 569.2 | 569.8 | 570.4 | 570.9 | 571.5 | 570.9 | 570.4 | 569.8 |
| 162.5° | 575.6 | 575.1 | 574.7 | 574.7 | 575.3 | 575.8 | 576.4 | 577.0 | 576.4 | 575.8 | 575.3 |
| 165°   | 582.6 | 582.3 | 582.0 | 582.1 | 582.7 | 583.3 | 583.9 | 584.4 | 583.9 | 583.3 | 582.7 |
| 167.5° | 588.0 | 587.7 | 587.5 | 587.6 | 588.2 | 588.9 | 589.4 | 590.0 | 589.4 | 588.9 | 588.2 |
| 170°   | 591.0 | 590.8 | 590.6 | 590.8 | 591.4 | 591.9 | 592.5 | 593.1 | 592.5 | 591.9 | 591.4 |
| 172.5° | 593.0 | 592.8 | 592.7 | 592.8 | 593.4 | 594.0 | 594.6 | 595.1 | 594.6 | 594.0 | 593.4 |
| 175°   | 595.3 | 595.1 | 594.9 | 595.1 | 595.8 | 596.4 | 597.1 | 597.8 | 597.1 | 596.4 | 595.8 |
| 177.5° | 596.0 | 595.9 | 595.8 | 596.1 | 596.6 | 597.1 | 597.7 | 598.2 | 597.7 | 597.1 | 596.6 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 589.1 | 587.9 | 584.1 | 582.1 | 578.8 | 575.6 | 573.6 | 574.5 | 575.2 | 574.9 | 574.3 |
| 5°     | 572.1 | 567.7 | 561.1 | 555.4 | 551.3 | 543.7 | 540.5 | 538.9 | 537.5 | 535.9 | 534.3 |
| 7.5°   | 552.0 | 545.1 | 535.6 | 527.5 | 519.8 | 510.3 | 504.9 | 501.8 | 498.5 | 494.8 | 491.6 |
| 10°    | 537.8 | 528.1 | 518.0 | 506.5 | 497.4 | 488.9 | 481.3 | 476.3 | 471.6 | 467.3 | 464.1 |
| 12.5°  | 522.7 | 511.6 | 499.1 | 483.4 | 473.3 | 461.1 | 460.0 | 451.1 | 443.9 | 441.2 | 437.5 |
| 15°    | 498.8 | 483.1 | 467.3 | 448.7 | 440.7 | 429.7 | 422.8 | 415.9 | 409.7 | 405.4 | 404.2 |
| 17.5°  | 471.5 | 451.3 | 435.6 | 422.2 | 409.1 | 397.8 | 391.4 | 386.0 | 380.8 | 375.1 | 374.3 |
| 20°    | 450.8 | 433.3 | 416.2 | 404.5 | 390.9 | 379.4 | 371.6 | 366.2 | 361.7 | 358.3 | 355.4 |
| 22.5°  | 431.1 | 412.0 | 396.3 | 383.5 | 370.2 | 360.9 | 354.8 | 349.4 | 345.8 | 342.0 | 339.2 |
| 25°    | 399.6 | 384.8 | 367.5 | 353.0 | 342.0 | 336.1 | 331.0 | 326.5 | 324.2 | 321.6 | 318.4 |
| 27.5°  | 372.0 | 355.5 | 339.4 | 328.2 | 318.5 | 313.3 | 309.6 | 306.5 | 304.4 | 302.9 | 301.0 |
| 30°    | 352.6 | 335.9 | 323.3 | 312.3 | 304.2 | 298.9 | 296.6 | 294.8 | 292.3 | 291.3 | 290.4 |
| 32.5°  | 333.9 | 318.8 | 308.0 | 298.4 | 290.8 | 287.3 | 285.3 | 283.6 | 281.7 | 280.7 | 278.8 |
| 35°    | 307.4 | 294.8 | 284.3 | 278.9 | 272.8 | 269.7 | 268.2 | 265.9 | 264.1 | 263.2 | 262.9 |
| 37.5°  | 282.5 | 271.6 | 264.6 | 257.8 | 255.2 | 253.4 | 251.2 | 249.6 | 249.0 | 248.9 | 248.6 |
| 40°    | 266.3 | 257.4 | 251.2 | 245.7 | 244.6 | 241.8 | 239.9 | 238.6 | 238.6 | 238.8 | 238.6 |
| 42.5°  | 251.7 | 243.6 | 238.1 | 233.4 | 232.1 | 230.5 | 228.5 | 228.5 | 228.8 | 229.6 | 228.8 |
| 45°    | 229.4 | 223.7 | 219.7 | 217.5 | 215.0 | 213.4 | 213.1 | 213.8 | 214.0 | 214.3 | 215.0 |
| 47.5°  | 208.9 | 205.1 | 201.6 | 199.0 | 197.9 | 197.7 | 197.4 | 198.6 | 199.8 | 200.2 | 201.2 |
| 50°    | 196.8 | 192.5 | 189.5 | 187.8 | 186.9 | 186.5 | 186.9 | 188.3 | 189.2 | 190.4 | 191.1 |
| 52.5°  | 183.3 | 180.2 | 178.1 | 176.8 | 176.5 | 176.8 | 176.8 | 178.4 | 179.9 | 180.4 | 180.7 |
| 55°    | 164.5 | 162.2 | 161.8 | 159.7 | 160.6 | 160.4 | 161.5 | 162.4 | 163.8 | 165.2 | 165.4 |
| 57.5°  | 145.7 | 143.9 | 142.7 | 142.9 | 143.2 | 144.2 | 145.1 | 146.7 | 148.1 | 149.7 | 149.8 |
| 60°    | 133.3 | 132.4 | 131.7 | 131.7 | 132.1 | 133.5 | 134.6 | 136.2 | 137.1 | 138.1 | 138.8 |
| 62.5°  | 121.9 | 121.0 | 120.3 | 120.7 | 121.9 | 122.7 | 124.0 | 124.9 | 125.8 | 126.7 | 127.0 |
| 65°    | 103.9 | 103.5 | 104.1 | 104.6 | 104.8 | 105.9 | 107.6 | 108.3 | 109.2 | 109.7 | 111.3 |
| 67.5°  | 87.4  | 87.5  | 87.4  | 88.0  | 89.4  | 89.6  | 91.1  | 92.7  | 92.9  | 93.8  | 94.8  |
| 70°    | 76.1  | 76.6  | 77.1  | 77.6  | 78.7  | 79.2  | 80.3  | 81.0  | 81.9  | 82.6  | 83.3  |
| 72.5°  | 65.8  | 65.9  | 66.4  | 66.3  | 67.4  | 68.3  | 69.3  | 70.0  | 70.9  | 71.8  | 72.4  |
| 75°    | 50.7  | 50.7  | 51.2  | 51.4  | 52.5  | 53.7  | 53.4  | 53.9  | 54.8  | 55.7  | 56.2  |
| 77.5°  | 37.1  | 36.6  | 37.1  | 37.3  | 37.7  | 38.6  | 38.8  | 39.4  | 40.5  | 40.2  | 40.7  |
| 80°    | 28.2  | 27.6  | 28.2  | 28.5  | 28.5  | 29.6  | 29.6  | 30.1  | 30.7  | 30.1  | 30.7  |
| 82.5°  | 20.1  | 19.8  | 20.3  | 20.4  | 20.7  | 20.8  | 21.1  | 21.2  | 21.9  | 21.6  | 21.9  |
| 85°    | 10.1  | 9.9   | 10.1  | 9.9   | 10.1  | 10.3  | 10.3  | 10.1  | 10.1  | 10.5  | 9.9   |
| 87.5°  | 4.0   | 4.0   | 4.0   | 4.1   | 4.1   | 4.1   | 4.0   | 4.1   | 4.2   | 3.9   | 4.0   |
| 90°    | 4.6   | 5.6   | 6.4   | 7.1   | 7.9   | 8.6   | 9.1   | 9.6   | 10.1  | 10.5  | 10.9  |
| 92.5°  | 8.4   | 8.5   | 8.9   | 9.3   | 9.6   | 10.0  | 10.3  | 10.5  | 10.8  | 11.0  | 11.2  |
| 95°    | 15.3  | 14.1  | 14.8  | 15.5  | 16.2  | 16.9  | 17.3  | 17.8  | 18.3  | 18.8  | 19.0  |
| 97.5°  | 20.0  | 16.4  | 17.9  | 19.4  | 21.0  | 22.5  | 22.9  | 23.3  | 23.7  | 24.0  | 24.3  |
| 100°   | 23.8  | 18.1  | 19.7  | 21.3  | 22.9  | 24.6  | 25.3  | 26.2  | 26.9  | 27.7  | 28.2  |
| 102.5° | 88.1  | 79.9  | 66.2  | 52.6  | 39.0  | 25.2  | 26.3  | 27.3  | 28.3  | 29.3  | 29.9  |
| 105°   | 142.7 | 131.1 | 104.9 | 78.7  | 52.5  | 26.4  | 27.4  | 28.5  | 29.5  | 30.6  | 31.3  |
| 107.5° | 177.0 | 162.5 | 131.1 | 99.7  | 68.3  | 36.9  | 35.7  | 34.7  | 33.6  | 32.5  | 32.2  |
| 110°   | 199.2 | 186.4 | 158.6 | 131.0 | 103.2 | 75.5  | 65.9  | 56.4  | 46.8  | 37.2  | 32.5  |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 220.5 | 217.9 | 211.1 | 204.2 | 197.3 | 190.6 | 155.5 | 120.6 | 85.5  | 50.6  | 33.2  |
| 115°   | 254.7 | 256.7 | 259.1 | 261.6 | 263.9 | 266.3 | 221.9 | 177.5 | 133.1 | 88.7  | 63.0  |
| 117.5° | 286.6 | 288.4 | 290.0 | 291.6 | 293.4 | 295.0 | 284.3 | 273.5 | 262.8 | 252.0 | 235.3 |
| 120°   | 307.9 | 309.5 | 311.2 | 313.0 | 314.7 | 316.4 | 317.5 | 318.7 | 319.8 | 321.0 | 315.1 |
| 122.5° | 327.5 | 329.2 | 331.1 | 333.0 | 334.9 | 336.8 | 337.5 | 338.1 | 338.8 | 339.5 | 338.6 |
| 125°   | 355.9 | 357.4 | 359.3 | 361.1 | 362.9 | 364.8 | 365.4 | 366.1 | 366.8 | 367.4 | 367.9 |
| 127.5° | 383.1 | 384.5 | 385.9 | 387.2 | 388.6 | 389.9 | 390.9 | 391.9 | 392.8 | 393.8 | 394.4 |
| 130°   | 400.6 | 401.9 | 403.0 | 404.0 | 405.2 | 406.2 | 407.2 | 408.3 | 409.3 | 410.4 | 410.9 |
| 132.5° | 417.0 | 418.2 | 419.2 | 420.3 | 421.3 | 422.4 | 423.3 | 424.2 | 425.1 | 426.0 | 426.4 |
| 135°   | 440.4 | 441.5 | 442.4 | 443.3 | 444.1 | 445.0 | 446.0 | 447.0 | 447.9 | 448.9 | 449.2 |
| 137.5° | 461.2 | 462.2 | 463.2 | 464.2 | 465.1 | 466.2 | 467.1 | 468.1 | 469.0 | 469.9 | 470.2 |
| 140°   | 474.8 | 475.7 | 476.9 | 477.9 | 478.9 | 480.0 | 480.8 | 481.7 | 482.6 | 483.4 | 483.6 |
| 142.5° | 487.0 | 488.0 | 489.1 | 490.3 | 491.5 | 492.7 | 493.5 | 494.3 | 495.1 | 495.9 | 496.0 |
| 145°   | 503.3 | 504.1 | 505.7 | 507.4 | 509.0 | 510.6 | 511.3 | 512.0 | 512.6 | 513.3 | 513.4 |
| 147.5° | 519.3 | 519.9 | 521.5 | 523.1 | 524.7 | 526.3 | 526.8 | 527.4 | 527.9 | 528.4 | 528.4 |
| 150°   | 529.1 | 529.5 | 531.1 | 532.6 | 534.1 | 535.6 | 536.2 | 536.8 | 537.3 | 538.0 | 538.1 |
| 152.5° | 538.1 | 538.5 | 539.9 | 541.4 | 542.8 | 544.3 | 544.8 | 545.4 | 546.0 | 546.6 | 546.5 |
| 155°   | 551.2 | 551.4 | 552.5 | 553.6 | 554.8 | 555.9 | 556.5 | 557.1 | 557.6 | 558.3 | 558.2 |
| 157.5° | 562.4 | 562.4 | 563.2 | 564.0 | 564.8 | 565.6 | 566.2 | 566.9 | 567.5 | 568.3 | 568.2 |
| 160°   | 569.2 | 569.2 | 569.8 | 570.4 | 570.9 | 571.5 | 572.1 | 572.6 | 573.2 | 573.8 | 573.7 |
| 162.5° | 574.7 | 574.7 | 575.1 | 575.6 | 576.1 | 576.6 | 577.3 | 577.9 | 578.7 | 579.3 | 579.2 |
| 165°   | 582.1 | 582.0 | 582.3 | 582.6 | 582.9 | 583.1 | 583.8 | 584.5 | 585.1 | 585.8 | 585.8 |
| 167.5° | 587.6 | 587.5 | 587.7 | 588.0 | 588.3 | 588.5 | 589.3 | 590.0 | 590.6 | 591.3 | 591.2 |
| 170°   | 590.8 | 590.6 | 590.8 | 591.0 | 591.2 | 591.4 | 592.0 | 592.7 | 593.4 | 594.0 | 593.9 |
| 172.5° | 592.8 | 592.7 | 592.8 | 593.0 | 593.2 | 593.4 | 594.1 | 594.7 | 595.4 | 596.1 | 596.0 |
| 175°   | 595.1 | 594.9 | 595.1 | 595.3 | 595.4 | 595.6 | 596.3 | 597.0 | 597.6 | 598.3 | 598.2 |
| 177.5° | 596.1 | 595.8 | 595.9 | 596.0 | 596.1 | 596.1 | 596.7 | 597.2 | 597.7 | 598.3 | 598.2 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 572.5 | 572.1 | 572.1 | 570.5 | 572.1 | 572.1 | 572.5 | 574.3 | 574.9 | 575.2 | 574.5 |
| 5°     | 531.1 | 530.4 | 529.3 | 530.4 | 529.3 | 530.4 | 531.1 | 534.3 | 535.9 | 537.5 | 538.9 |
| 7.5°   | 490.1 | 487.4 | 487.0 | 484.2 | 487.0 | 487.4 | 490.1 | 491.6 | 494.8 | 498.5 | 501.8 |
| 10°    | 460.2 | 458.4 | 458.1 | 453.7 | 458.1 | 458.4 | 460.2 | 464.1 | 467.3 | 471.6 | 476.3 |
| 12.5°  | 437.5 | 433.0 | 433.9 | 431.4 | 433.9 | 433.0 | 437.5 | 437.5 | 441.2 | 443.9 | 451.1 |
| 15°    | 398.0 | 398.0 | 397.1 | 393.2 | 397.1 | 398.0 | 398.0 | 404.2 | 405.4 | 409.7 | 415.9 |
| 17.5°  | 369.7 | 369.2 | 367.1 | 368.2 | 367.1 | 369.2 | 369.7 | 374.3 | 375.1 | 380.8 | 386.0 |
| 20°    | 352.8 | 351.4 | 348.7 | 348.7 | 348.7 | 351.4 | 352.8 | 355.4 | 358.3 | 361.7 | 366.2 |
| 22.5°  | 336.9 | 336.8 | 333.9 | 334.8 | 333.9 | 336.8 | 336.9 | 339.2 | 342.0 | 345.8 | 349.4 |
| 25°    | 318.2 | 316.4 | 315.0 | 315.7 | 315.0 | 316.4 | 318.2 | 318.4 | 321.6 | 324.2 | 326.5 |
| 27.5°  | 300.4 | 299.4 | 299.3 | 297.5 | 299.3 | 299.4 | 300.4 | 301.0 | 302.9 | 304.4 | 306.5 |
| 30°    | 290.2 | 287.9 | 288.3 | 287.2 | 288.3 | 287.9 | 290.2 | 290.4 | 291.3 | 292.3 | 294.8 |
| 32.5°  | 278.4 | 277.6 | 277.2 | 276.2 | 277.2 | 277.6 | 278.4 | 278.8 | 280.7 | 281.7 | 283.6 |
| 35°    | 262.5 | 262.7 | 261.6 | 262.0 | 261.6 | 262.7 | 262.5 | 262.9 | 263.2 | 264.1 | 265.9 |
| 37.5°  | 248.4 | 249.1 | 248.6 | 248.7 | 248.6 | 249.1 | 248.4 | 248.6 | 248.9 | 249.0 | 249.6 |
| 40°    | 239.2 | 239.2 | 239.2 | 239.9 | 239.2 | 239.2 | 239.2 | 238.6 | 238.8 | 238.6 | 238.6 |
| 42.5°  | 230.5 | 230.0 | 229.7 | 229.6 | 229.7 | 230.0 | 230.5 | 228.8 | 229.6 | 228.8 | 228.5 |
| 45°    | 215.4 | 216.1 | 216.3 | 215.2 | 216.3 | 216.1 | 215.4 | 215.0 | 214.3 | 214.0 | 213.8 |
| 47.5°  | 201.8 | 201.9 | 201.8 | 202.8 | 201.8 | 201.9 | 201.8 | 201.2 | 200.2 | 199.8 | 198.6 |
| 50°    | 192.3 | 191.8 | 192.3 | 191.8 | 192.3 | 191.8 | 192.3 | 191.1 | 190.4 | 189.2 | 188.3 |
| 52.5°  | 182.2 | 182.3 | 182.0 | 181.9 | 182.0 | 182.3 | 182.2 | 180.7 | 180.4 | 179.9 | 178.4 |
| 55°    | 166.3 | 166.7 | 166.5 | 166.5 | 166.5 | 166.7 | 166.3 | 165.4 | 165.2 | 163.8 | 162.4 |
| 57.5°  | 150.0 | 150.4 | 150.7 | 149.7 | 150.7 | 150.4 | 150.0 | 149.8 | 149.7 | 148.1 | 146.7 |
| 60°    | 138.6 | 139.7 | 139.5 | 139.1 | 139.5 | 139.7 | 138.6 | 138.8 | 138.1 | 137.1 | 136.2 |
| 62.5°  | 128.1 | 128.6 | 128.5 | 128.4 | 128.5 | 128.6 | 128.1 | 127.0 | 126.7 | 125.8 | 124.9 |
| 65°    | 112.0 | 112.4 | 111.7 | 112.4 | 111.7 | 112.4 | 112.0 | 111.3 | 109.7 | 109.2 | 108.3 |
| 67.5°  | 94.5  | 94.7  | 95.2  | 95.5  | 95.2  | 94.7  | 94.5  | 94.8  | 93.8  | 92.9  | 92.7  |
| 70°    | 83.7  | 83.5  | 84.2  | 84.9  | 84.2  | 83.5  | 83.7  | 83.3  | 82.6  | 81.9  | 81.0  |
| 72.5°  | 72.3  | 72.8  | 72.6  | 73.1  | 72.6  | 72.8  | 72.3  | 72.4  | 71.8  | 70.9  | 70.0  |
| 75°    | 55.7  | 56.5  | 56.2  | 56.9  | 56.2  | 56.5  | 55.7  | 56.2  | 55.7  | 54.8  | 53.9  |
| 77.5°  | 40.3  | 40.4  | 40.3  | 40.7  | 40.3  | 40.4  | 40.3  | 40.7  | 40.2  | 40.5  | 39.4  |
| 80°    | 30.7  | 30.3  | 29.8  | 30.7  | 29.8  | 30.3  | 30.7  | 30.7  | 30.1  | 30.7  | 30.1  |
| 82.5°  | 21.4  | 21.6  | 21.2  | 21.2  | 21.2  | 21.6  | 21.4  | 21.9  | 21.6  | 21.9  | 21.2  |
| 85°    | 9.9   | 9.6   | 9.2   | 9.2   | 9.2   | 9.6   | 9.9   | 9.9   | 10.5  | 10.1  | 10.1  |
| 87.5°  | 4.0   | 3.9   | 3.9   | 3.8   | 3.9   | 3.9   | 4.0   | 4.0   | 3.9   | 4.2   | 4.1   |
| 90°    | 11.1  | 11.3  | 11.5  | 11.6  | 11.5  | 11.3  | 11.1  | 10.9  | 10.5  | 10.1  | 9.6   |
| 92.5°  | 11.3  | 11.4  | 11.5  | 11.6  | 11.5  | 11.4  | 11.3  | 11.2  | 11.0  | 10.8  | 10.5  |
| 95°    | 18.9  | 18.8  | 18.7  | 18.6  | 18.7  | 18.8  | 18.9  | 19.0  | 18.8  | 18.3  | 17.8  |
| 97.5°  | 24.4  | 24.5  | 24.6  | 24.7  | 24.6  | 24.5  | 24.4  | 24.3  | 24.0  | 23.7  | 23.3  |
| 100°   | 28.4  | 28.6  | 28.7  | 28.9  | 28.7  | 28.6  | 28.4  | 28.2  | 27.7  | 26.9  | 26.2  |
| 102.5° | 30.2  | 30.5  | 30.7  | 31.0  | 30.7  | 30.5  | 30.2  | 29.9  | 29.3  | 28.3  | 27.3  |
| 105°   | 31.6  | 32.0  | 32.4  | 32.8  | 32.4  | 32.0  | 31.6  | 31.3  | 30.6  | 29.5  | 28.5  |
| 107.5° | 32.6  | 33.0  | 33.3  | 33.7  | 33.3  | 33.0  | 32.6  | 32.2  | 32.5  | 33.6  | 34.7  |
| 110°   | 32.9  | 33.3  | 33.7  | 34.1  | 33.7  | 33.3  | 32.9  | 32.5  | 37.2  | 46.8  | 56.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 33.5  | 33.8  | 34.1  | 34.4  | 34.1  | 33.8  | 33.5  | 33.2  | 50.6  | 85.5  | 120.6 |
| 115°   | 56.1  | 49.2  | 42.3  | 35.3  | 42.3  | 49.2  | 56.1  | 63.0  | 88.7  | 133.1 | 177.5 |
| 117.5° | 212.6 | 189.9 | 167.2 | 144.5 | 167.2 | 189.9 | 212.6 | 235.3 | 252.0 | 262.8 | 273.5 |
| 120°   | 302.2 | 289.2 | 276.2 | 263.3 | 276.2 | 289.2 | 302.2 | 315.1 | 321.0 | 319.8 | 318.7 |
| 122.5° | 336.1 | 333.6 | 331.0 | 328.5 | 331.0 | 333.6 | 336.1 | 338.6 | 339.5 | 338.8 | 338.1 |
| 125°   | 368.2 | 368.5 | 368.8 | 369.0 | 368.8 | 368.5 | 368.2 | 367.9 | 367.4 | 366.8 | 366.1 |
| 127.5° | 394.5 | 394.5 | 394.6 | 394.6 | 394.6 | 394.5 | 394.5 | 394.4 | 393.8 | 392.8 | 391.9 |
| 130°   | 410.8 | 410.7 | 410.6 | 410.5 | 410.6 | 410.7 | 410.8 | 410.9 | 410.4 | 409.3 | 408.3 |
| 132.5° | 426.3 | 426.2 | 426.2 | 426.1 | 426.2 | 426.2 | 426.3 | 426.4 | 426.0 | 425.1 | 424.2 |
| 135°   | 449.1 | 448.9 | 448.7 | 448.5 | 448.7 | 448.9 | 449.1 | 449.2 | 448.9 | 447.9 | 447.0 |
| 137.5° | 469.9 | 469.6 | 469.3 | 468.9 | 469.3 | 469.6 | 469.9 | 470.2 | 469.9 | 469.0 | 468.1 |
| 140°   | 483.1 | 482.6 | 482.2 | 481.7 | 482.2 | 482.6 | 483.1 | 483.6 | 483.4 | 482.6 | 481.7 |
| 142.5° | 495.5 | 495.1 | 494.6 | 494.1 | 494.6 | 495.1 | 495.5 | 496.0 | 495.9 | 495.1 | 494.3 |
| 145°   | 512.9 | 512.4 | 512.0 | 511.5 | 512.0 | 512.4 | 512.9 | 513.4 | 513.3 | 512.6 | 512.0 |
| 147.5° | 528.0 | 527.6 | 527.1 | 526.7 | 527.1 | 527.6 | 528.0 | 528.4 | 528.4 | 527.9 | 527.4 |
| 150°   | 537.6 | 537.0 | 536.5 | 536.1 | 536.5 | 537.0 | 537.6 | 538.1 | 538.0 | 537.3 | 536.8 |
| 152.5° | 545.9 | 545.3 | 544.6 | 544.0 | 544.6 | 545.3 | 545.9 | 546.5 | 546.6 | 546.0 | 545.4 |
| 155°   | 557.3 | 556.6 | 555.8 | 555.1 | 555.8 | 556.6 | 557.3 | 558.2 | 558.3 | 557.6 | 557.1 |
| 157.5° | 567.4 | 566.6 | 565.9 | 565.2 | 565.9 | 566.6 | 567.4 | 568.2 | 568.3 | 567.5 | 566.9 |
| 160°   | 573.1 | 572.4 | 571.7 | 571.1 | 571.7 | 572.4 | 573.1 | 573.7 | 573.8 | 573.2 | 572.6 |
| 162.5° | 578.3 | 577.5 | 576.7 | 575.9 | 576.7 | 577.5 | 578.3 | 579.2 | 579.3 | 578.7 | 577.9 |
| 165°   | 585.1 | 584.5 | 583.8 | 583.1 | 583.8 | 584.5 | 585.1 | 585.8 | 585.8 | 585.1 | 584.5 |
| 167.5° | 590.3 | 589.5 | 588.5 | 587.7 | 588.5 | 589.5 | 590.3 | 591.2 | 591.3 | 590.6 | 590.0 |
| 170°   | 593.1 | 592.2 | 591.4 | 590.5 | 591.4 | 592.2 | 593.1 | 593.9 | 594.0 | 593.4 | 592.7 |
| 172.5° | 595.1 | 594.3 | 593.4 | 592.6 | 593.4 | 594.3 | 595.1 | 596.0 | 596.1 | 595.4 | 594.7 |
| 175°   | 597.2 | 596.3 | 595.3 | 594.4 | 595.3 | 596.3 | 597.2 | 598.2 | 598.3 | 597.6 | 597.0 |
| 177.5° | 597.5 | 596.8 | 596.1 | 595.5 | 596.1 | 596.8 | 597.5 | 598.2 | 598.3 | 597.7 | 597.2 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |



TEST NUMBER: P331465-840

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**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 573.6 | 575.6 | 578.8 | 582.1 | 584.1 | 587.9 | 589.1 | 590.9 | 592.5 | 596.3 | 600.4 |
| 5°     | 540.5 | 543.7 | 551.3 | 555.4 | 561.1 | 567.7 | 572.1 | 576.7 | 581.8 | 590.5 | 598.5 |
| 7.5°   | 504.9 | 510.3 | 519.8 | 527.5 | 535.6 | 545.1 | 552.0 | 561.1 | 568.7 | 581.0 | 592.7 |
| 10°    | 481.3 | 488.9 | 497.4 | 506.5 | 518.0 | 528.1 | 537.8 | 549.2 | 558.4 | 573.1 | 586.8 |
| 12.5°  | 460.0 | 461.1 | 473.3 | 483.4 | 499.1 | 511.6 | 522.7 | 537.5 | 546.4 | 563.9 | 578.3 |
| 15°    | 422.8 | 429.7 | 440.7 | 448.7 | 467.3 | 483.1 | 498.8 | 514.1 | 524.4 | 546.0 | 565.0 |
| 17.5°  | 391.4 | 397.8 | 409.1 | 422.2 | 435.6 | 451.3 | 471.5 | 487.8 | 501.8 | 526.4 | 549.0 |
| 20°    | 371.6 | 379.4 | 390.9 | 404.5 | 416.2 | 433.3 | 450.8 | 469.4 | 484.5 | 512.3 | 538.7 |
| 22.5°  | 354.8 | 360.9 | 370.2 | 383.5 | 396.3 | 412.0 | 431.1 | 451.4 | 467.3 | 497.3 | 523.9 |
| 25°    | 331.0 | 336.1 | 342.0 | 353.0 | 367.5 | 384.8 | 399.6 | 421.9 | 445.0 | 473.0 | 505.3 |
| 27.5°  | 309.6 | 313.3 | 318.5 | 328.2 | 339.4 | 355.5 | 372.0 | 393.1 | 416.5 | 446.9 | 481.0 |
| 30°    | 296.6 | 298.9 | 304.2 | 312.3 | 323.3 | 335.9 | 352.6 | 372.7 | 396.7 | 427.4 | 461.3 |
| 32.5°  | 285.3 | 287.3 | 290.8 | 298.4 | 308.0 | 318.8 | 333.9 | 354.1 | 376.8 | 407.0 | 444.6 |
| 35°    | 268.2 | 269.7 | 272.8 | 278.9 | 284.3 | 294.8 | 307.4 | 325.8 | 347.1 | 376.0 | 415.0 |
| 37.5°  | 251.2 | 253.4 | 255.2 | 257.8 | 264.6 | 271.6 | 282.5 | 298.0 | 318.9 | 348.1 | 385.3 |
| 40°    | 239.9 | 241.8 | 244.6 | 245.7 | 251.2 | 257.4 | 266.3 | 280.5 | 301.6 | 328.3 | 364.6 |
| 42.5°  | 228.5 | 230.5 | 232.1 | 233.4 | 238.1 | 243.6 | 251.7 | 263.9 | 282.6 | 308.4 | 344.4 |
| 45°    | 213.1 | 213.4 | 215.0 | 217.5 | 219.7 | 223.7 | 229.4 | 239.9 | 254.4 | 278.7 | 311.3 |
| 47.5°  | 197.4 | 197.7 | 197.9 | 199.0 | 201.6 | 205.1 | 208.9 | 217.5 | 230.5 | 249.8 | 281.6 |
| 50°    | 186.9 | 186.5 | 186.9 | 187.8 | 189.5 | 192.5 | 196.8 | 203.0 | 213.6 | 231.7 | 260.8 |
| 52.5°  | 176.8 | 176.8 | 176.5 | 176.8 | 178.1 | 180.2 | 183.3 | 188.5 | 197.9 | 214.6 | 240.2 |
| 55°    | 161.5 | 160.4 | 160.6 | 159.7 | 161.8 | 162.2 | 164.5 | 168.8 | 177.1 | 188.5 | 212.7 |
| 57.5°  | 145.1 | 144.2 | 143.2 | 142.9 | 142.7 | 143.9 | 145.7 | 149.2 | 155.5 | 165.6 | 185.1 |
| 60°    | 134.6 | 133.5 | 132.1 | 131.7 | 131.7 | 132.4 | 133.3 | 135.8 | 141.8 | 150.7 | 166.7 |
| 62.5°  | 124.0 | 122.7 | 121.9 | 120.7 | 120.3 | 121.0 | 121.9 | 123.7 | 128.1 | 136.4 | 150.3 |
| 65°    | 107.6 | 105.9 | 104.8 | 104.6 | 104.1 | 103.5 | 103.9 | 105.7 | 109.2 | 115.8 | 126.8 |
| 67.5°  | 91.1  | 89.6  | 89.4  | 88.0  | 87.4  | 87.5  | 87.4  | 88.9  | 91.0  | 96.7  | 104.9 |
| 70°    | 80.3  | 79.2  | 78.7  | 77.6  | 77.1  | 76.6  | 76.1  | 77.6  | 79.6  | 84.4  | 91.5  |
| 72.5°  | 69.3  | 68.3  | 67.4  | 66.3  | 66.4  | 65.9  | 65.8  | 66.8  | 68.4  | 72.8  | 78.4  |
| 75°    | 53.4  | 53.7  | 52.5  | 51.4  | 51.2  | 50.7  | 50.7  | 51.4  | 52.1  | 55.5  | 59.9  |
| 77.5°  | 38.8  | 38.6  | 37.7  | 37.3  | 37.1  | 36.6  | 37.1  | 37.5  | 37.9  | 40.2  | 43.3  |
| 80°    | 29.6  | 29.6  | 28.5  | 28.5  | 28.2  | 27.6  | 28.2  | 27.8  | 28.7  | 31.0  | 33.2  |
| 82.5°  | 21.1  | 20.8  | 20.7  | 20.4  | 20.3  | 19.8  | 20.1  | 20.6  | 21.0  | 22.5  | 23.9  |
| 85°    | 10.3  | 10.3  | 10.1  | 9.9   | 10.1  | 9.9   | 10.1  | 10.3  | 10.5  | 11.2  | 12.4  |
| 87.5°  | 4.0   | 4.1   | 4.1   | 4.1   | 4.0   | 4.0   | 4.0   | 4.0   | 4.1   | 4.1   | 4.1   |
| 90°    | 9.1   | 8.6   | 7.9   | 7.1   | 6.4   | 5.6   | 4.6   | 3.6   | 2.5   | 1.5   | 0.4   |
| 92.5°  | 10.3  | 10.0  | 9.6   | 9.3   | 8.9   | 8.5   | 8.4   | 8.4   | 8.5   | 8.6   | 8.7   |
| 95°    | 17.3  | 16.9  | 16.2  | 15.5  | 14.8  | 14.1  | 15.3  | 18.6  | 21.7  | 24.8  | 28.1  |
| 97.5°  | 22.9  | 22.5  | 21.0  | 19.4  | 17.9  | 16.4  | 20.0  | 28.9  | 37.9  | 46.8  | 55.6  |
| 100°   | 25.3  | 24.6  | 22.9  | 21.3  | 19.7  | 18.1  | 23.8  | 37.0  | 50.1  | 63.2  | 76.4  |
| 102.5° | 26.3  | 25.2  | 39.0  | 52.6  | 66.2  | 79.9  | 88.1  | 90.9  | 93.6  | 96.4  | 99.2  |
| 105°   | 27.4  | 26.4  | 52.5  | 78.7  | 104.9 | 131.1 | 142.7 | 139.9 | 136.9 | 134.1 | 131.2 |
| 107.5° | 35.7  | 36.9  | 68.3  | 99.7  | 131.1 | 162.5 | 177.0 | 174.7 | 172.4 | 170.1 | 167.7 |
| 110°   | 65.9  | 75.5  | 103.2 | 131.0 | 158.6 | 186.4 | 199.2 | 197.2 | 195.2 | 193.2 | 191.2 |



TEST NUMBER: P331465-840

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**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 155.5 | 190.6 | 197.3 | 204.2 | 211.1 | 217.9 | 220.5 | 218.6 | 216.9 | 215.1 | 213.3 |
| 115°   | 221.9 | 266.3 | 263.9 | 261.6 | 259.1 | 256.7 | 254.7 | 253.1 | 251.5 | 249.8 | 248.2 |
| 117.5° | 284.3 | 295.0 | 293.4 | 291.6 | 290.0 | 288.4 | 286.6 | 284.8 | 283.0 | 281.1 | 279.3 |
| 120°   | 317.5 | 316.4 | 314.7 | 313.0 | 311.2 | 309.5 | 307.9 | 306.5 | 305.0 | 303.6 | 302.2 |
| 122.5° | 337.5 | 336.8 | 334.9 | 333.0 | 331.1 | 329.2 | 327.5 | 326.0 | 324.5 | 323.0 | 321.4 |
| 125°   | 365.4 | 364.8 | 362.9 | 361.1 | 359.3 | 357.4 | 355.9 | 354.7 | 353.5 | 352.1 | 350.9 |
| 127.5° | 390.9 | 389.9 | 388.6 | 387.2 | 385.9 | 384.5 | 383.1 | 381.7 | 380.3 | 379.0 | 377.6 |
| 130°   | 407.2 | 406.2 | 405.2 | 404.0 | 403.0 | 401.9 | 400.6 | 399.1 | 397.6 | 396.1 | 394.6 |
| 132.5° | 423.3 | 422.4 | 421.3 | 420.3 | 419.2 | 418.2 | 417.0 | 415.7 | 414.3 | 413.0 | 411.8 |
| 135°   | 446.0 | 445.0 | 444.1 | 443.3 | 442.4 | 441.5 | 440.4 | 438.8 | 437.3 | 435.8 | 434.2 |
| 137.5° | 467.1 | 466.2 | 465.1 | 464.2 | 463.2 | 462.2 | 461.2 | 460.2 | 459.1 | 458.0 | 457.0 |
| 140°   | 480.8 | 480.0 | 478.9 | 477.9 | 476.9 | 475.7 | 474.8 | 474.0 | 473.3 | 472.5 | 471.8 |
| 142.5° | 493.5 | 492.7 | 491.5 | 490.3 | 489.1 | 488.0 | 487.0 | 486.3 | 485.5 | 484.9 | 484.2 |
| 145°   | 511.3 | 510.6 | 509.0 | 507.4 | 505.7 | 504.1 | 503.3 | 503.4 | 503.5 | 503.6 | 503.7 |
| 147.5° | 526.8 | 526.3 | 524.7 | 523.1 | 521.5 | 519.9 | 519.3 | 519.7 | 520.0 | 520.4 | 520.7 |
| 150°   | 536.2 | 535.6 | 534.1 | 532.6 | 531.1 | 529.5 | 529.1 | 529.8 | 530.4 | 531.1 | 531.8 |
| 152.5° | 544.8 | 544.3 | 542.8 | 541.4 | 539.9 | 538.5 | 538.1 | 538.9 | 539.6 | 540.4 | 541.1 |
| 155°   | 556.5 | 555.9 | 554.8 | 553.6 | 552.5 | 551.4 | 551.2 | 552.1 | 552.9 | 553.8 | 554.6 |
| 157.5° | 566.2 | 565.6 | 564.8 | 564.0 | 563.2 | 562.4 | 562.4 | 563.1 | 563.8 | 564.5 | 565.2 |
| 160°   | 572.1 | 571.5 | 570.9 | 570.4 | 569.8 | 569.2 | 569.2 | 569.8 | 570.4 | 570.9 | 571.5 |
| 162.5° | 577.3 | 576.6 | 576.1 | 575.6 | 575.1 | 574.7 | 574.7 | 575.3 | 575.8 | 576.4 | 577.0 |
| 165°   | 583.8 | 583.1 | 582.9 | 582.6 | 582.3 | 582.0 | 582.1 | 582.7 | 583.3 | 583.9 | 584.4 |
| 167.5° | 589.3 | 588.5 | 588.3 | 588.0 | 587.7 | 587.5 | 587.6 | 588.2 | 588.9 | 589.4 | 590.0 |
| 170°   | 592.0 | 591.4 | 591.2 | 591.0 | 590.8 | 590.6 | 590.8 | 591.4 | 591.9 | 592.5 | 593.1 |
| 172.5° | 594.1 | 593.4 | 593.2 | 593.0 | 592.8 | 592.7 | 592.8 | 593.4 | 594.0 | 594.6 | 595.1 |
| 175°   | 596.3 | 595.6 | 595.4 | 595.3 | 595.1 | 594.9 | 595.1 | 595.8 | 596.4 | 597.1 | 597.8 |
| 177.5° | 596.7 | 596.1 | 596.1 | 596.0 | 595.9 | 595.8 | 596.1 | 596.6 | 597.1 | 597.7 | 598.2 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 600.1 | 601.0 | 603.9 | 606.8 | 610.2 | 611.1 | 612.5 | 611.3 | 610.9 | 614.3 | 616.9 |
| 5°     | 601.8 | 605.8 | 613.9 | 621.3 | 627.4 | 631.8 | 636.4 | 638.2 | 641.7 | 646.4 | 652.5 |
| 7.5°   | 599.8 | 607.8 | 620.5 | 631.2 | 642.8 | 651.2 | 657.7 | 663.4 | 670.1 | 679.2 | 689.2 |
| 10°    | 597.6 | 608.3 | 623.8 | 636.8 | 651.1 | 661.9 | 670.8 | 679.5 | 689.6 | 702.3 | 715.3 |
| 12.5°  | 593.6 | 606.3 | 625.6 | 641.1 | 659.3 | 669.9 | 682.0 | 700.7 | 711.7 | 729.2 | 747.6 |
| 15°    | 585.4 | 599.7 | 626.5 | 645.5 | 666.2 | 686.4 | 708.6 | 726.5 | 744.4 | 754.8 | 780.6 |
| 17.5°  | 573.4 | 594.2 | 624.0 | 646.2 | 672.5 | 704.2 | 729.2 | 749.5 | 770.1 | 786.9 | 799.9 |
| 20°    | 563.6 | 586.3 | 620.4 | 646.9 | 678.1 | 712.3 | 740.9 | 761.6 | 779.5 | 793.6 | 801.5 |
| 22.5°  | 551.4 | 580.0 | 613.0 | 644.2 | 684.0 | 717.8 | 747.9 | 764.2 | 779.1 | 786.0 | 789.1 |
| 25°    | 532.0 | 566.4 | 603.8 | 641.9 | 686.8 | 722.7 | 750.1 | 760.0 | 764.4 | 757.7 | 746.7 |
| 27.5°  | 511.1 | 549.5 | 593.2 | 637.5 | 685.1 | 719.5 | 739.2 | 737.7 | 730.3 | 708.7 | 691.6 |
| 30°    | 495.5 | 537.8 | 584.7 | 633.2 | 680.9 | 714.4 | 725.8 | 714.4 | 697.6 | 673.6 | 648.9 |
| 32.5°  | 479.2 | 522.9 | 575.7 | 626.9 | 673.2 | 702.7 | 705.1 | 685.4 | 659.4 | 632.1 | 601.5 |
| 35°    | 454.4 | 501.7 | 558.9 | 613.0 | 656.8 | 675.4 | 664.4 | 629.4 | 598.7 | 561.4 | 519.6 |
| 37.5°  | 426.5 | 478.7 | 535.9 | 592.6 | 632.3 | 637.1 | 609.8 | 573.1 | 529.7 | 485.7 | 436.6 |
| 40°    | 405.6 | 460.9 | 519.9 | 576.9 | 612.1 | 607.0 | 572.1 | 531.8 | 480.2 | 426.5 | 380.8 |
| 42.5°  | 386.9 | 442.1 | 502.2 | 558.3 | 586.3 | 572.5 | 531.8 | 482.2 | 426.8 | 376.2 | 334.4 |
| 45°    | 354.5 | 411.3 | 472.8 | 526.9 | 543.0 | 518.0 | 464.1 | 409.0 | 354.5 | 312.3 | 279.2 |
| 47.5°  | 323.0 | 379.2 | 440.1 | 487.7 | 493.3 | 459.7 | 400.8 | 344.2 | 297.2 | 262.9 | 239.5 |
| 50°    | 299.8 | 356.3 | 416.6 | 459.1 | 457.2 | 416.6 | 356.1 | 302.2 | 262.9 | 235.1 | 219.5 |
| 52.5°  | 279.1 | 332.4 | 390.3 | 429.0 | 419.2 | 375.0 | 317.1 | 269.2 | 237.0 | 215.3 | 201.2 |
| 55°    | 246.8 | 296.2 | 351.2 | 382.2 | 364.3 | 315.2 | 266.3 | 227.8 | 203.9 | 187.6 | 176.6 |
| 57.5°  | 214.8 | 261.1 | 308.2 | 327.3 | 307.5 | 262.2 | 221.5 | 193.5 | 175.5 | 163.5 | 156.3 |
| 60°    | 195.0 | 235.4 | 277.3 | 293.9 | 270.2 | 229.8 | 197.7 | 172.8 | 158.2 | 148.5 | 142.0 |
| 62.5°  | 175.2 | 211.4 | 251.0 | 259.9 | 238.3 | 204.2 | 175.7 | 154.9 | 143.1 | 134.3 | 128.3 |
| 65°    | 148.1 | 177.8 | 207.8 | 213.8 | 193.9 | 167.4 | 145.0 | 131.5 | 120.9 | 114.5 | 109.7 |
| 67.5°  | 121.6 | 145.3 | 166.6 | 171.4 | 153.9 | 135.6 | 119.4 | 107.6 | 100.5 | 95.1  | 91.0  |
| 70°    | 105.7 | 124.6 | 142.0 | 145.9 | 131.9 | 115.6 | 103.2 | 93.8  | 87.4  | 82.8  | 78.9  |
| 72.5°  | 89.1  | 104.7 | 119.3 | 121.9 | 110.5 | 98.0  | 87.9  | 80.4  | 74.7  | 71.8  | 68.1  |
| 75°    | 68.2  | 77.4  | 88.6  | 89.3  | 81.7  | 74.1  | 66.3  | 61.5  | 58.5  | 54.8  | 53.0  |
| 77.5°  | 48.1  | 55.2  | 61.7  | 62.9  | 58.5  | 53.3  | 49.0  | 45.1  | 42.6  | 40.9  | 39.2  |
| 80°    | 36.7  | 42.4  | 45.2  | 46.8  | 43.6  | 39.9  | 37.4  | 34.8  | 33.2  | 32.1  | 31.0  |
| 82.5°  | 26.3  | 29.8  | 32.3  | 33.6  | 31.8  | 29.6  | 27.2  | 25.7  | 24.4  | 23.5  | 23.1  |
| 85°    | 13.3  | 14.9  | 16.6  | 17.0  | 16.6  | 15.6  | 14.2  | 14.2  | 13.5  | 13.3  | 13.3  |
| 87.5°  | 4.8   | 5.9   | 6.1   | 6.8   | 6.7   | 6.8   | 7.0   | 6.9   | 6.9   | 6.8   | 6.7   |
| 90°    | 1.5   | 2.5   | 3.6   | 4.6   | 5.6   | 6.4   | 7.1   | 7.9   | 8.6   | 9.1   | 9.6   |
| 92.5°  | 8.6   | 8.5   | 8.4   | 8.4   | 8.5   | 8.9   | 9.3   | 9.6   | 10.0  | 10.3  | 10.5  |
| 95°    | 24.8  | 21.7  | 18.6  | 15.3  | 14.1  | 14.8  | 15.5  | 16.2  | 16.9  | 17.3  | 17.8  |
| 97.5°  | 46.8  | 37.9  | 28.9  | 20.0  | 16.4  | 17.9  | 19.4  | 21.0  | 22.5  | 22.9  | 23.3  |
| 100°   | 63.2  | 50.1  | 37.0  | 23.8  | 18.1  | 19.7  | 21.3  | 22.9  | 24.6  | 25.3  | 26.2  |
| 102.5° | 96.4  | 93.6  | 90.9  | 88.1  | 79.9  | 66.2  | 52.6  | 39.0  | 25.2  | 26.3  | 27.3  |
| 105°   | 134.1 | 136.9 | 139.9 | 142.7 | 131.1 | 104.9 | 78.7  | 52.5  | 26.4  | 27.4  | 28.5  |
| 107.5° | 170.1 | 172.4 | 174.7 | 177.0 | 162.5 | 131.1 | 99.7  | 68.3  | 36.9  | 35.7  | 34.7  |
| 110°   | 193.2 | 195.2 | 197.2 | 199.2 | 186.4 | 158.6 | 131.0 | 103.2 | 75.5  | 65.9  | 56.4  |





TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 215.1 | 216.9 | 218.6 | 220.5 | 217.9 | 211.1 | 204.2 | 197.3 | 190.6 | 155.5 | 120.6 |
| 115°   | 249.8 | 251.5 | 253.1 | 254.7 | 256.7 | 259.1 | 261.6 | 263.9 | 266.3 | 221.9 | 177.5 |
| 117.5° | 281.1 | 283.0 | 284.8 | 286.6 | 288.4 | 290.0 | 291.6 | 293.4 | 295.0 | 284.3 | 273.5 |
| 120°   | 303.6 | 305.0 | 306.5 | 307.9 | 309.5 | 311.2 | 313.0 | 314.7 | 316.4 | 317.5 | 318.7 |
| 122.5° | 323.0 | 324.5 | 326.0 | 327.5 | 329.2 | 331.1 | 333.0 | 334.9 | 336.8 | 337.5 | 338.1 |
| 125°   | 352.1 | 353.5 | 354.7 | 355.9 | 357.4 | 359.3 | 361.1 | 362.9 | 364.8 | 365.4 | 366.1 |
| 127.5° | 379.0 | 380.3 | 381.7 | 383.1 | 384.5 | 385.9 | 387.2 | 388.6 | 389.9 | 390.9 | 391.9 |
| 130°   | 396.1 | 397.6 | 399.1 | 400.6 | 401.9 | 403.0 | 404.0 | 405.2 | 406.2 | 407.2 | 408.3 |
| 132.5° | 413.0 | 414.3 | 415.7 | 417.0 | 418.2 | 419.2 | 420.3 | 421.3 | 422.4 | 423.3 | 424.2 |
| 135°   | 435.8 | 437.3 | 438.8 | 440.4 | 441.5 | 442.4 | 443.3 | 444.1 | 445.0 | 446.0 | 447.0 |
| 137.5° | 458.0 | 459.1 | 460.2 | 461.2 | 462.2 | 463.2 | 464.2 | 465.1 | 466.2 | 467.1 | 468.1 |
| 140°   | 472.5 | 473.3 | 474.0 | 474.8 | 475.7 | 476.9 | 477.9 | 478.9 | 480.0 | 480.8 | 481.7 |
| 142.5° | 484.9 | 485.5 | 486.3 | 487.0 | 488.0 | 489.1 | 490.3 | 491.5 | 492.7 | 493.5 | 494.3 |
| 145°   | 503.6 | 503.5 | 503.4 | 503.3 | 504.1 | 505.7 | 507.4 | 509.0 | 510.6 | 511.3 | 512.0 |
| 147.5° | 520.4 | 520.0 | 519.7 | 519.3 | 519.9 | 521.5 | 523.1 | 524.7 | 526.3 | 526.8 | 527.4 |
| 150°   | 531.1 | 530.4 | 529.8 | 529.1 | 529.5 | 531.1 | 532.6 | 534.1 | 535.6 | 536.2 | 536.8 |
| 152.5° | 540.4 | 539.6 | 538.9 | 538.1 | 538.5 | 539.9 | 541.4 | 542.8 | 544.3 | 544.8 | 545.4 |
| 155°   | 553.8 | 552.9 | 552.1 | 551.2 | 551.4 | 552.5 | 553.6 | 554.8 | 555.9 | 556.5 | 557.1 |
| 157.5° | 564.5 | 563.8 | 563.1 | 562.4 | 562.4 | 563.2 | 564.0 | 564.8 | 565.6 | 566.2 | 566.9 |
| 160°   | 570.9 | 570.4 | 569.8 | 569.2 | 569.2 | 569.8 | 570.4 | 570.9 | 571.5 | 572.1 | 572.6 |
| 162.5° | 576.4 | 575.8 | 575.3 | 574.7 | 574.7 | 575.1 | 575.6 | 576.1 | 576.6 | 577.3 | 577.9 |
| 165°   | 583.9 | 583.3 | 582.7 | 582.1 | 582.0 | 582.3 | 582.6 | 582.9 | 583.1 | 583.8 | 584.5 |
| 167.5° | 589.4 | 588.9 | 588.2 | 587.6 | 587.5 | 587.7 | 588.0 | 588.3 | 588.5 | 589.3 | 590.0 |
| 170°   | 592.5 | 591.9 | 591.4 | 590.8 | 590.6 | 590.8 | 591.0 | 591.2 | 591.4 | 592.0 | 592.7 |
| 172.5° | 594.6 | 594.0 | 593.4 | 592.8 | 592.7 | 592.8 | 593.0 | 593.2 | 593.4 | 594.1 | 594.7 |
| 175°   | 597.1 | 596.4 | 595.8 | 595.1 | 594.9 | 595.1 | 595.3 | 595.4 | 595.6 | 596.3 | 597.0 |
| 177.5° | 597.7 | 597.1 | 596.6 | 596.1 | 595.8 | 595.9 | 596.0 | 596.1 | 596.1 | 596.7 | 597.2 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 | 596.9 |
| 2.5°   | 619.1 | 621.7 | 621.7 | 622.1 | 625.0 | 624.6 | 624.4 |
| 5°     | 658.8 | 662.8 | 663.2 | 667.3 | 670.0 | 669.1 | 666.6 |
| 7.5°   | 696.3 | 703.6 | 709.1 | 712.2 | 715.8 | 718.0 | 717.0 |
| 10°    | 726.1 | 736.6 | 743.1 | 747.4 | 752.7 | 756.6 | 755.2 |
| 12.5°  | 753.1 | 765.6 | 774.5 | 781.9 | 782.5 | 787.6 | 784.2 |
| 15°    | 795.2 | 808.4 | 809.8 | 815.3 | 819.7 | 819.2 | 819.4 |
| 17.5°  | 809.0 | 813.2 | 814.2 | 814.3 | 814.4 | 812.7 | 809.2 |
| 20°    | 804.1 | 802.4 | 798.6 | 795.6 | 790.3 | 789.6 | 785.1 |
| 22.5°  | 780.5 | 775.5 | 765.7 | 759.2 | 751.0 | 748.9 | 747.6 |
| 25°    | 734.4 | 723.1 | 707.5 | 692.6 | 688.4 | 680.4 | 682.7 |
| 27.5°  | 670.9 | 653.4 | 636.4 | 624.4 | 613.4 | 601.4 | 604.8 |
| 30°    | 626.3 | 606.5 | 582.7 | 564.3 | 552.6 | 541.2 | 539.1 |
| 32.5°  | 573.1 | 544.1 | 517.6 | 501.4 | 483.4 | 476.2 | 468.3 |
| 35°    | 481.3 | 453.0 | 426.7 | 403.9 | 390.9 | 380.8 | 371.6 |
| 37.5°  | 398.8 | 366.3 | 345.0 | 326.6 | 317.1 | 311.3 | 312.9 |
| 40°    | 347.6 | 319.1 | 303.5 | 289.5 | 280.7 | 276.7 | 277.6 |
| 42.5°  | 306.1 | 284.8 | 272.0 | 262.4 | 256.2 | 253.9 | 253.4 |
| 45°    | 259.0 | 247.1 | 236.5 | 231.1 | 228.0 | 225.5 | 223.9 |
| 47.5°  | 226.9 | 217.1 | 211.2 | 207.9 | 205.3 | 202.8 | 202.7 |
| 50°    | 207.6 | 201.2 | 197.0 | 193.6 | 191.6 | 189.8 | 191.4 |
| 52.5°  | 192.9 | 187.0 | 182.9 | 179.9 | 179.0 | 177.4 | 177.3 |
| 55°    | 171.2 | 166.5 | 163.6 | 160.8 | 159.5 | 158.5 | 157.3 |
| 57.5°  | 151.3 | 146.9 | 144.2 | 142.5 | 139.9 | 139.0 | 138.6 |
| 60°    | 137.1 | 133.7 | 131.0 | 128.7 | 127.5 | 125.7 | 125.7 |
| 62.5°  | 124.1 | 120.7 | 118.2 | 116.4 | 114.5 | 113.8 | 114.0 |
| 65°    | 105.3 | 102.5 | 100.0 | 98.2  | 97.8  | 96.3  | 96.8  |
| 67.5°  | 88.0  | 86.1  | 83.4  | 82.4  | 81.6  | 80.9  | 80.3  |
| 70°    | 76.3  | 74.5  | 73.2  | 71.8  | 71.1  | 71.1  | 71.1  |
| 72.5°  | 66.7  | 64.4  | 63.6  | 61.9  | 62.3  | 61.6  | 60.8  |
| 75°    | 51.6  | 50.2  | 49.6  | 48.9  | 47.8  | 47.8  | 47.8  |
| 77.5°  | 38.0  | 37.6  | 36.8  | 36.1  | 35.7  | 35.5  | 35.6  |
| 80°    | 29.4  | 29.1  | 28.7  | 28.7  | 28.2  | 28.0  | 27.6  |
| 82.5°  | 22.6  | 22.0  | 21.7  | 21.5  | 21.4  | 21.4  | 21.3  |
| 85°    | 12.8  | 12.4  | 12.4  | 12.6  | 12.1  | 12.1  | 12.4  |
| 87.5°  | 7.0   | 7.1   | 7.0   | 7.0   | 7.2   | 7.1   | 7.1   |
| 90°    | 10.1  | 10.5  | 10.9  | 11.1  | 11.3  | 11.5  | 11.6  |
| 92.5°  | 10.8  | 11.0  | 11.2  | 11.3  | 11.4  | 11.5  | 11.6  |
| 95°    | 18.3  | 18.8  | 19.0  | 18.9  | 18.8  | 18.7  | 18.6  |
| 97.5°  | 23.7  | 24.0  | 24.3  | 24.4  | 24.5  | 24.6  | 24.7  |
| 100°   | 26.9  | 27.7  | 28.2  | 28.4  | 28.6  | 28.7  | 28.9  |
| 102.5° | 28.3  | 29.3  | 29.9  | 30.2  | 30.5  | 30.7  | 31.0  |
| 105°   | 29.5  | 30.6  | 31.3  | 31.6  | 32.0  | 32.4  | 32.8  |
| 107.5° | 33.6  | 32.5  | 32.2  | 32.6  | 33.0  | 33.3  | 33.7  |
| 110°   | 46.8  | 37.2  | 32.5  | 32.9  | 33.3  | 33.7  | 34.1  |



TEST NUMBER: P331465-840

CATALOG NUMBER: S122DIW-S290D435U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 85.5  | 50.6  | 33.2  | 33.5  | 33.8  | 34.1  | 34.4  |
| 115°   | 133.1 | 88.7  | 63.0  | 56.1  | 49.2  | 42.3  | 35.3  |
| 117.5° | 262.8 | 252.0 | 235.3 | 212.6 | 189.9 | 167.2 | 144.5 |
| 120°   | 319.8 | 321.0 | 315.1 | 302.2 | 289.2 | 276.2 | 263.3 |
| 122.5° | 338.8 | 339.5 | 338.6 | 336.1 | 333.6 | 331.0 | 328.5 |
| 125°   | 366.8 | 367.4 | 367.9 | 368.2 | 368.5 | 368.8 | 369.0 |
| 127.5° | 392.8 | 393.8 | 394.4 | 394.5 | 394.5 | 394.6 | 394.6 |
| 130°   | 409.3 | 410.4 | 410.9 | 410.8 | 410.7 | 410.6 | 410.5 |
| 132.5° | 425.1 | 426.0 | 426.4 | 426.3 | 426.2 | 426.2 | 426.1 |
| 135°   | 447.9 | 448.9 | 449.2 | 449.1 | 448.9 | 448.7 | 448.5 |
| 137.5° | 469.0 | 469.9 | 470.2 | 469.9 | 469.6 | 469.3 | 468.9 |
| 140°   | 482.6 | 483.4 | 483.6 | 483.1 | 482.6 | 482.2 | 481.7 |
| 142.5° | 495.1 | 495.9 | 496.0 | 495.5 | 495.1 | 494.6 | 494.1 |
| 145°   | 512.6 | 513.3 | 513.4 | 512.9 | 512.4 | 512.0 | 511.5 |
| 147.5° | 527.9 | 528.4 | 528.4 | 528.0 | 527.6 | 527.1 | 526.7 |
| 150°   | 537.3 | 538.0 | 538.1 | 537.6 | 537.0 | 536.5 | 536.1 |
| 152.5° | 546.0 | 546.6 | 546.5 | 545.9 | 545.3 | 544.6 | 544.0 |
| 155°   | 557.6 | 558.3 | 558.2 | 557.3 | 556.6 | 555.8 | 555.1 |
| 157.5° | 567.5 | 568.3 | 568.2 | 567.4 | 566.6 | 565.9 | 565.2 |
| 160°   | 573.2 | 573.8 | 573.7 | 573.1 | 572.4 | 571.7 | 571.1 |
| 162.5° | 578.7 | 579.3 | 579.2 | 578.3 | 577.5 | 576.7 | 575.9 |
| 165°   | 585.1 | 585.8 | 585.8 | 585.1 | 584.5 | 583.8 | 583.1 |
| 167.5° | 590.6 | 591.3 | 591.2 | 590.3 | 589.5 | 588.5 | 587.7 |
| 170°   | 593.4 | 594.0 | 593.9 | 593.1 | 592.2 | 591.4 | 590.5 |
| 172.5° | 595.4 | 596.1 | 596.0 | 595.1 | 594.3 | 593.4 | 592.6 |
| 175°   | 597.6 | 598.3 | 598.2 | 597.2 | 596.3 | 595.3 | 594.4 |
| 177.5° | 597.7 | 598.3 | 598.2 | 597.5 | 596.8 | 596.1 | 595.5 |
| 180°   | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |

(END OF REPORT)