

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1030868

Luminaire Tested: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1030868  
REPORT IS A COMBINATION OF REPORTS P991524 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K  
Description: Define 3 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

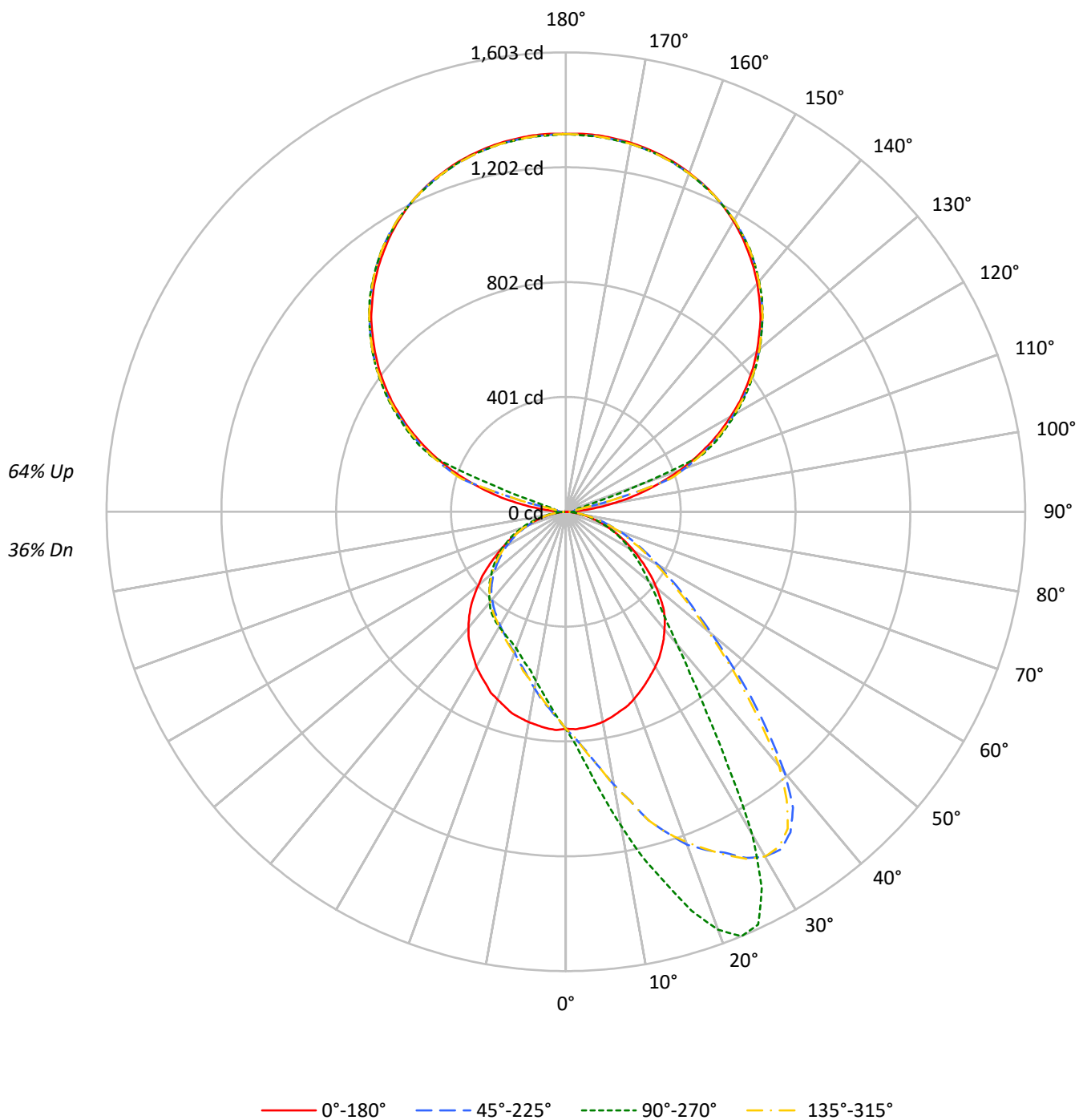
Lumens per Lamp: N/A  
Luminaire Lumens: 6307.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 55.5  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1030868

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |    |    |
| 1   | 95  | 91  | 87  | 84  | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 31 |    |    |
| 2   | 87  | 79  | 74  | 69  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 34 | 33 | 32 | 26 |    |    |
| 3   | 79  | 70  | 63  | 57  | 71 | 64 | 58 | 53 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |    |    |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 50 | 45 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |    |    |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |    |    |
| 6   | 61  | 49  | 42  | 36  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |    |    |
| 7   | 56  | 45  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 28 | 25 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |    |    |
| 8   | 52  | 40  | 33  | 28  | 47 | 37 | 30 | 26 | 31 | 25 | 22 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |    |    |
| 9   | 49  | 37  | 29  | 25  | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 |    |    |
| 10  | 45  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 17 | 21 | 17 | 15 | 16 | 14 | 12 | 10 |    |    |

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

|     | 0°   | 90°   | 180° | 270° |
|-----|------|-------|------|------|
| 0°  | 8149 | 8149  | 8149 | 8149 |
| 5°  | 8155 | 9389  | 8179 | 7008 |
| 10° | 8103 | 11363 | 8110 | 6120 |
| 15° | 7991 | 13475 | 8055 | 5509 |
| 20° | 7895 | 15514 | 7911 | 5068 |
| 25° | 7751 | 15905 | 7768 | 4839 |
| 30° | 7649 | 13141 | 7649 | 4689 |
| 35° | 7523 | 8788  | 7475 | 4556 |
| 40° | 7370 | 6344  | 7279 | 4353 |
| 45° | 7179 | 5026  | 6973 | 4100 |
| 50° | 6716 | 4267  | 6477 | 3852 |
| 55° | 6208 | 3750  | 5956 | 3575 |
| 60° | 5691 | 3266  | 5390 | 3284 |
| 65° | 5125 | 2795  | 4876 | 2897 |
| 70° | 4538 | 2321  | 4235 | 2442 |
| 75° | 3880 | 1750  | 3629 | 1885 |
| 80° | 3067 | 1168  | 2828 | 1238 |
| 85° | 2113 | 536   | 1691 | 488  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 13142 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.5   | 1.2       |
| 10°-20°   | 239.1  | 3.8       |
| 20°-30°   | 402.4  | 6.4       |
| 30°-40°   | 454.7  | 7.2       |
| 40°-50°   | 407.3  | 6.5       |
| 50°-60°   | 328.8  | 5.2       |
| 60°-70°   | 229.1  | 3.6       |
| 70°-80°   | 120.2  | 1.9       |
| 80°-90°   | 31.5   | 0.5       |
| 90°-100°  | 46.5   | 0.7       |
| 100°-110° | 224.8  | 3.6       |
| 110°-120° | 550.8  | 8.7       |
| 120°-130° | 699.3  | 11.1      |
| 130°-140° | 747.0  | 11.8      |
| 140°-150° | 698.6  | 11.1      |
| 150°-160° | 563.5  | 8.9       |
| 160°-170° | 363.6  | 5.8       |
| 170°-180° | 125.3  | 2.0       |
| 0°-30°    | 716.0  | 11.4      |
| 0°-40°    | 1170.7 | 18.6      |
| 0°-60°    | 1906.8 | 30.2      |
| 0°-90°    | 2287.6 | 36.3      |
| 90°-120°  | 822.1  | 13.0      |
| 90°-150°  | 2967.0 | 47.0      |
| 90°-180°  | 4019.0 | 63.7      |
| 0°-180°   | 6307.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 757  | 757  | 757  | 757  | 757  |      |
| 5°   | 756  | 899  | 759  | 671  | 756  | 72   |
| 15°  | 722  | 1339 | 728  | 547  | 722  | 204  |
| 25°  | 660  | 1589 | 662  | 483  | 660  | 305  |
| 35°  | 582  | 856  | 579  | 444  | 582  | 365  |
| 45°  | 483  | 462  | 470  | 377  | 483  | 370  |
| 55°  | 343  | 314  | 329  | 299  | 343  | 307  |
| 65°  | 212  | 204  | 202  | 211  | 212  | 211  |
| 75°  | 102  | 105  | 95   | 113  | 102  | 109  |
| 85°  | 22   | 24   | 18   | 22   | 22   | 25   |
| 90°  | 1    | 29   | 1    | 29   | 1    | 5    |
| 95°  | 60   | 37   | 60   | 37   | 60   | 71   |
| 105° | 292  | 43   | 292  | 43   | 292  | 309  |
| 115° | 548  | 576  | 548  | 576  | 548  | 541  |
| 125° | 772  | 788  | 772  | 788  | 772  | 690  |
| 135° | 961  | 971  | 961  | 971  | 961  | 740  |
| 145° | 1109 | 1120 | 1109 | 1120 | 1109 | 694  |
| 155° | 1222 | 1220 | 1222 | 1220 | 1222 | 563  |
| 165° | 1288 | 1285 | 1288 | 1285 | 1288 | 364  |
| 175° | 1318 | 1314 | 1318 | 1314 | 1318 | 125  |
| 180° | 1318 | 1318 | 1318 | 1318 | 1318 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°    | 35°    | 40°    | 45°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°     | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1  | 757.1  | 757.1  | 757.1  |
| 2.5°   | 759.3 | 765.2 | 768.1 | 772.5 | 776.9 | 783.5 | 785.7 | 789.4  | 787.9  | 790.8  | 792.3  |
| 5°     | 756.4 | 766.6 | 775.4 | 786.4 | 796.7 | 804.0 | 811.4 | 823.1  | 831.9  | 833.4  | 840.0  |
| 7.5°   | 751.2 | 765.9 | 781.3 | 796.7 | 816.5 | 828.2 | 841.4 | 857.6  | 870.8  | 892.1  | 900.1  |
| 10°    | 744.6 | 765.2 | 787.2 | 808.4 | 835.6 | 853.9 | 870.1 | 897.2  | 924.3  | 946.4  | 966.9  |
| 12.5°  | 734.3 | 760.0 | 788.6 | 820.2 | 855.4 | 876.7 | 898.7 | 934.6  | 975.7  | 1009.4 | 1031.5 |
| 15°    | 721.9 | 754.1 | 790.8 | 824.6 | 863.5 | 903.1 | 926.5 | 966.9  | 1025.6 | 1057.1 | 1113.6 |
| 17.5°  | 711.6 | 744.6 | 781.3 | 834.1 | 886.9 | 926.5 | 943.4 | 1017.5 | 1057.9 | 1110.7 | 1174.5 |
| 20°    | 695.5 | 737.3 | 784.2 | 837.0 | 905.3 | 929.5 | 964.0 | 1038.8 | 1088.7 | 1157.6 | 1236.1 |
| 22.5°  | 678.6 | 723.3 | 779.8 | 834.8 | 911.1 | 936.8 | 983.8 | 1043.2 | 1122.4 | 1190.6 | 1277.2 |
| 25°    | 660.2 | 708.7 | 765.9 | 831.2 | 906.0 | 943.4 | 987.4 | 1060.8 | 1146.6 | 1232.5 | 1312.4 |
| 27.5°  | 641.9 | 694.7 | 754.1 | 819.4 | 892.1 | 936.1 | 980.1 | 1056.4 | 1166.4 | 1259.6 | 1361.6 |
| 30°    | 624.3 | 677.1 | 736.5 | 803.3 | 879.6 | 922.1 | 964.0 | 1059.3 | 1181.8 | 1286.7 | 1389.5 |
| 32.5°  | 605.2 | 659.5 | 721.9 | 777.6 | 854.7 | 900.1 | 947.1 | 1059.3 | 1191.4 | 1302.9 | 1396.8 |
| 35°    | 582.5 | 638.2 | 691.8 | 747.5 | 823.8 | 874.5 | 927.3 | 1052.0 | 1200.2 | 1308.0 | 1366.0 |
| 37.5°  | 560.5 | 609.6 | 655.8 | 710.1 | 790.1 | 844.4 | 905.3 | 1043.2 | 1195.8 | 1286.0 | 1302.2 |
| 40°    | 535.5 | 584.7 | 622.1 | 672.7 | 757.1 | 820.2 | 881.8 | 1031.5 | 1176.7 | 1233.9 | 1187.0 |
| 42.5°  | 511.3 | 550.2 | 582.5 | 631.6 | 723.3 | 785.0 | 851.7 | 1010.2 | 1139.3 | 1151.0 | 1045.4 |
| 45°    | 483.4 | 511.3 | 539.9 | 595.7 | 686.7 | 749.7 | 823.8 | 979.4  | 1079.1 | 1045.4 | 911.9  |
| 47.5°  | 447.5 | 472.4 | 504.0 | 555.3 | 647.8 | 713.1 | 783.5 | 939.8  | 991.8  | 921.4  | 775.4  |
| 50°    | 413.0 | 434.3 | 463.6 | 513.5 | 606.7 | 670.5 | 745.3 | 877.4  | 903.1  | 792.3  | 668.3  |
| 52.5°  | 378.5 | 394.7 | 423.3 | 473.2 | 566.3 | 628.0 | 696.2 | 813.6  | 798.9  | 680.1  | 570.0  |
| 55°    | 342.6 | 356.5 | 383.7 | 432.8 | 519.4 | 578.1 | 643.4 | 735.1  | 696.9  | 584.0  | 495.9  |
| 57.5°  | 307.4 | 322.1 | 349.9 | 391.0 | 472.4 | 529.7 | 581.8 | 653.6  | 596.4  | 506.2  | 428.4  |
| 60°    | 275.8 | 288.3 | 309.6 | 349.9 | 424.0 | 470.2 | 517.9 | 567.1  | 519.4  | 432.1  | 372.7  |
| 62.5°  | 242.8 | 254.6 | 274.4 | 311.0 | 374.9 | 416.0 | 454.1 | 494.5  | 441.6  | 377.8  | 325.0  |
| 65°    | 212.0 | 221.5 | 239.9 | 273.6 | 325.7 | 359.5 | 390.3 | 418.2  | 375.6  | 316.9  | 277.3  |
| 67.5°  | 184.1 | 192.2 | 207.6 | 237.7 | 281.7 | 305.9 | 330.9 | 354.3  | 318.4  | 271.4  | 237.7  |
| 70°    | 154.1 | 160.7 | 174.6 | 196.6 | 231.8 | 256.8 | 275.1 | 292.7  | 260.4  | 223.0  | 200.3  |
| 72.5°  | 127.6 | 134.3 | 143.1 | 165.8 | 190.0 | 205.4 | 225.2 | 234.8  | 216.4  | 185.6  | 162.9  |
| 75°    | 102.0 | 107.1 | 115.2 | 129.8 | 152.6 | 162.9 | 175.3 | 182.7  | 165.8  | 145.3  | 131.3  |
| 77.5°  | 80.0  | 82.2  | 88.0  | 98.3  | 113.7 | 125.4 | 135.0 | 139.4  | 127.6  | 114.4  | 102.7  |
| 80°    | 56.5  | 59.4  | 63.8  | 72.6  | 84.4  | 88.0  | 93.9  | 99.0   | 91.7   | 80.0   | 72.6   |
| 82.5°  | 37.4  | 41.1  | 43.3  | 47.0  | 54.3  | 58.7  | 60.2  | 64.6   | 58.0   | 53.6   | 50.6   |
| 85°    | 22.0  | 23.5  | 24.2  | 26.4  | 30.1  | 32.3  | 34.5  | 35.2   | 33.7   | 33.0   | 30.1   |
| 87.5°  | 11.0  | 11.0  | 11.0  | 12.5  | 13.2  | 14.7  | 15.4  | 15.4   | 15.4   | 14.7   | 13.9   |
| 90°    | 1.0   | 3.2   | 5.4   | 7.5   | 9.7   | 10.8  | 12.2  | 15.0   | 17.9   | 20.7   | 23.5   |
| 92.5°  | 22.5  | 21.2  | 19.9  | 18.6  | 17.3  | 16.7  | 17.7  | 19.6   | 21.6   | 23.5   | 25.5   |
| 95°    | 59.8  | 50.9  | 41.9  | 33.0  | 24.1  | 19.6  | 20.8  | 23.2   | 25.6   | 28.0   | 30.4   |
| 97.5°  | 108.7 | 102.6 | 96.5  | 90.4  | 84.3  | 81.3  | 75.7  | 64.6   | 53.5   | 42.4   | 31.3   |
| 100°   | 165.5 | 169.9 | 174.2 | 178.6 | 182.9 | 185.1 | 168.1 | 134.2  | 100.2  | 66.3   | 32.3   |
| 102.5° | 230.2 | 233.0 | 235.8 | 238.7 | 241.5 | 242.9 | 224.0 | 186.1  | 148.2  | 110.4  | 72.5   |
| 105°   | 291.9 | 294.3 | 296.7 | 299.1 | 301.5 | 302.7 | 292.9 | 273.3  | 253.7  | 234.1  | 214.5  |
| 107.5° | 357.5 | 359.5 | 361.4 | 363.4 | 365.3 | 366.3 | 367.9 | 371.2  | 374.5  | 377.7  | 381.0  |
| 110°   | 423.2 | 424.9 | 426.7 | 428.4 | 430.1 | 431.0 | 432.2 | 434.6  | 437.0  | 439.4  | 441.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 485.8  | 487.3  | 488.9  | 490.4  | 491.9  | 492.7  | 493.9  | 496.3  | 498.7  | 501.1  | 503.5  |
| 115°   | 547.6  | 548.9  | 550.2  | 551.5  | 552.8  | 553.4  | 554.4  | 556.3  | 558.3  | 560.2  | 562.2  |
| 117.5° | 608.3  | 609.8  | 611.3  | 612.8  | 614.3  | 615.1  | 615.6  | 616.7  | 617.8  | 618.9  | 620.0  |
| 120°   | 664.1  | 666.1  | 668.0  | 670.0  | 671.9  | 672.9  | 673.2  | 673.9  | 674.6  | 675.2  | 675.9  |
| 122.5° | 720.9  | 722.4  | 724.0  | 725.5  | 727.0  | 727.8  | 728.2  | 729.1  | 730.0  | 730.8  | 731.7  |
| 125°   | 771.9  | 773.6  | 775.4  | 777.1  | 778.8  | 779.7  | 780.1  | 781.0  | 781.9  | 782.7  | 783.6  |
| 127.5° | 822.8  | 824.5  | 826.3  | 828.0  | 829.7  | 830.6  | 831.1  | 832.2  | 833.3  | 834.4  | 835.5  |
| 130°   | 869.8  | 871.6  | 873.3  | 875.1  | 876.8  | 877.7  | 878.1  | 879.0  | 879.9  | 880.7  | 881.6  |
| 132.5° | 914.9  | 916.6  | 918.4  | 920.1  | 921.8  | 922.7  | 923.0  | 923.7  | 924.3  | 925.0  | 925.6  |
| 135°   | 960.9  | 962.2  | 963.5  | 964.8  | 966.1  | 966.8  | 967.2  | 968.1  | 969.0  | 969.8  | 970.7  |
| 137.5° | 1000.1 | 1001.8 | 1003.6 | 1005.3 | 1007.0 | 1007.9 | 1008.1 | 1008.6 | 1009.0 | 1009.5 | 1009.9 |
| 140°   | 1039.3 | 1040.6 | 1041.9 | 1043.2 | 1044.5 | 1045.2 | 1045.5 | 1046.2 | 1046.8 | 1047.5 | 1048.1 |
| 142.5° | 1075.5 | 1076.8 | 1078.1 | 1079.4 | 1080.7 | 1081.4 | 1081.7 | 1082.4 | 1083.0 | 1083.7 | 1084.3 |
| 145°   | 1108.8 | 1110.3 | 1111.9 | 1113.4 | 1114.9 | 1115.7 | 1115.9 | 1116.3 | 1116.8 | 1117.2 | 1117.6 |
| 147.5° | 1141.1 | 1142.2 | 1143.3 | 1144.4 | 1145.5 | 1146.0 | 1146.2 | 1146.7 | 1147.1 | 1147.6 | 1148.0 |
| 150°   | 1170.5 | 1171.2 | 1171.8 | 1172.5 | 1173.2 | 1173.5 | 1173.7 | 1174.1 | 1174.6 | 1175.0 | 1175.4 |
| 152.5° | 1197.0 | 1197.2 | 1197.4 | 1197.7 | 1197.9 | 1198.0 | 1198.1 | 1198.3 | 1198.5 | 1198.7 | 1198.9 |
| 155°   | 1221.5 | 1221.1 | 1220.6 | 1220.2 | 1219.7 | 1219.5 | 1219.6 | 1219.8 | 1220.1 | 1220.3 | 1220.5 |
| 157.5° | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.0 | 1240.8 | 1240.5 | 1240.3 | 1240.1 |
| 160°   | 1258.7 | 1258.5 | 1258.3 | 1258.0 | 1257.8 | 1257.7 | 1257.6 | 1257.4 | 1257.1 | 1256.9 | 1256.7 |
| 162.5° | 1275.3 | 1274.7 | 1274.0 | 1273.4 | 1272.7 | 1272.4 | 1272.3 | 1272.1 | 1271.8 | 1271.6 | 1271.4 |
| 165°   | 1288.1 | 1287.4 | 1286.8 | 1286.1 | 1285.4 | 1285.1 | 1285.0 | 1284.8 | 1284.6 | 1284.4 | 1284.2 |
| 167.5° | 1298.8 | 1297.9 | 1297.1 | 1296.2 | 1295.3 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1294.9 |
| 170°   | 1307.7 | 1306.8 | 1305.9 | 1305.0 | 1304.1 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1303.7 |
| 172.5° | 1313.5 | 1312.4 | 1311.3 | 1310.2 | 1309.1 | 1308.6 | 1308.7 | 1308.9 | 1309.2 | 1309.4 | 1309.6 |
| 175°   | 1318.4 | 1317.3 | 1316.2 | 1315.1 | 1314.0 | 1313.5 | 1313.6 | 1313.8 | 1314.1 | 1314.3 | 1314.5 |
| 177.5° | 1320.4 | 1319.3 | 1318.2 | 1317.1 | 1316.0 | 1315.5 | 1315.6 | 1315.8 | 1316.1 | 1316.3 | 1316.5 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  |
| 2.5°   | 797.4  | 798.9  | 804.0  | 807.7  | 815.0  | 814.3  | 814.3  | 813.6  | 811.4  | 815.0  | 817.2  |
| 5°     | 853.2  | 865.7  | 867.1  | 883.3  | 884.0  | 890.6  | 895.0  | 891.3  | 900.1  | 899.4  | 892.8  |
| 7.5°   | 922.1  | 939.0  | 947.1  | 962.5  | 980.1  | 975.7  | 992.6  | 995.5  | 994.0  | 1001.4 | 1006.5 |
| 10°    | 997.7  | 1027.1 | 1047.6 | 1076.2 | 1083.5 | 1087.9 | 1098.9 | 1108.5 | 1127.6 | 1112.9 | 1122.4 |
| 12.5°  | 1084.3 | 1105.5 | 1132.7 | 1178.2 | 1200.9 | 1215.6 | 1220.7 | 1227.3 | 1240.5 | 1232.5 | 1233.2 |
| 15°    | 1156.9 | 1185.5 | 1231.7 | 1288.2 | 1294.8 | 1313.2 | 1308.8 | 1348.4 | 1367.4 | 1338.8 | 1355.0 |
| 17.5°  | 1232.5 | 1270.6 | 1325.6 | 1374.8 | 1402.7 | 1415.1 | 1426.9 | 1465.0 | 1463.5 | 1459.1 | 1462.8 |
| 20°    | 1280.9 | 1343.2 | 1411.5 | 1476.8 | 1484.8 | 1494.4 | 1525.9 | 1542.0 | 1539.1 | 1551.6 | 1559.7 |
| 22.5°  | 1349.1 | 1415.1 | 1487.8 | 1531.0 | 1549.4 | 1560.4 | 1585.3 | 1595.6 | 1600.0 | 1602.9 | 1597.8 |
| 25°    | 1406.3 | 1476.8 | 1530.3 | 1568.5 | 1579.5 | 1585.3 | 1593.4 | 1596.3 | 1594.1 | 1589.0 | 1593.4 |
| 27.5°  | 1445.2 | 1501.7 | 1538.4 | 1556.0 | 1550.1 | 1540.6 | 1525.2 | 1514.9 | 1492.2 | 1481.2 | 1494.4 |
| 30°    | 1461.3 | 1486.3 | 1497.3 | 1467.9 | 1438.6 | 1415.1 | 1385.8 | 1331.5 | 1288.9 | 1301.4 | 1284.5 |
| 32.5°  | 1435.7 | 1419.5 | 1366.7 | 1291.2 | 1268.4 | 1230.3 | 1147.4 | 1083.5 | 1085.7 | 1052.0 | 1065.9 |
| 35°    | 1360.1 | 1286.7 | 1187.0 | 1072.5 | 1042.5 | 1021.9 | 930.9  | 917.0  | 887.7  | 856.1  | 864.9  |
| 37.5°  | 1226.6 | 1119.5 | 998.4  | 914.1  | 869.3  | 824.6  | 773.2  | 742.4  | 724.8  | 711.6  | 721.9  |
| 40°    | 1063.7 | 933.1  | 833.4  | 757.8  | 719.7  | 691.1  | 655.8  | 625.0  | 605.2  | 603.0  | 606.7  |
| 42.5°  | 903.8  | 793.8  | 702.1  | 630.2  | 617.7  | 584.0  | 561.2  | 537.0  | 531.1  | 521.6  | 526.7  |
| 45°    | 765.2  | 675.7  | 600.1  | 541.4  | 526.7  | 517.9  | 490.1  | 474.6  | 468.0  | 462.2  | 471.0  |
| 47.5°  | 664.6  | 570.7  | 515.7  | 480.5  | 465.8  | 451.2  | 435.8  | 425.5  | 420.4  | 421.1  | 420.4  |
| 50°    | 567.8  | 498.9  | 450.4  | 423.3  | 414.5  | 404.2  | 391.7  | 385.1  | 382.9  | 376.3  | 381.5  |
| 52.5°  | 488.6  | 438.7  | 405.0  | 379.3  | 372.7  | 365.3  | 355.1  | 351.4  | 346.3  | 344.8  | 344.8  |
| 55°    | 424.8  | 385.9  | 358.7  | 341.9  | 333.8  | 327.9  | 322.1  | 317.7  | 314.0  | 314.0  | 314.0  |
| 57.5°  | 374.9  | 341.1  | 321.3  | 306.6  | 303.7  | 297.8  | 291.2  | 291.2  | 286.1  | 285.4  | 287.6  |
| 60°    | 332.3  | 302.2  | 286.8  | 274.4  | 270.0  | 268.5  | 261.9  | 261.9  | 260.4  | 256.8  | 259.7  |
| 62.5°  | 289.0  | 267.0  | 253.8  | 244.3  | 239.9  | 239.9  | 234.8  | 231.1  | 231.1  | 231.8  | 230.4  |
| 65°    | 249.4  | 233.3  | 221.5  | 214.2  | 212.0  | 209.1  | 208.3  | 205.4  | 203.2  | 203.9  | 203.2  |
| 67.5°  | 214.2  | 201.7  | 193.7  | 187.8  | 184.1  | 182.7  | 180.5  | 180.5  | 179.0  | 179.7  | 176.1  |
| 70°    | 182.7  | 170.2  | 163.6  | 157.7  | 156.3  | 156.3  | 153.3  | 154.1  | 152.6  | 154.8  | 153.3  |
| 72.5°  | 150.4  | 140.9  | 135.7  | 133.5  | 132.0  | 131.3  | 129.8  | 128.4  | 127.6  | 129.1  | 128.4  |
| 75°    | 121.8  | 113.7  | 110.0  | 108.6  | 107.1  | 107.1  | 106.4  | 105.6  | 104.9  | 104.9  | 104.9  |
| 77.5°  | 94.6   | 89.5   | 85.1   | 86.6   | 84.4   | 85.1   | 82.9   | 82.9   | 83.6   | 82.9   | 82.9   |
| 80°    | 69.7   | 66.0   | 66.0   | 64.6   | 61.6   | 63.1   | 63.1   | 60.9   | 60.2   | 61.6   | 59.4   |
| 82.5°  | 46.2   | 45.5   | 44.0   | 43.3   | 41.8   | 42.5   | 41.8   | 41.1   | 40.3   | 41.8   | 40.3   |
| 85°    | 27.1   | 27.1   | 26.4   | 24.9   | 26.4   | 25.7   | 24.9   | 24.9   | 24.2   | 24.2   | 24.2   |
| 87.5°  | 13.9   | 12.5   | 12.5   | 11.7   | 12.5   | 11.0   | 11.7   | 11.0   | 10.3   | 11.0   | 10.3   |
| 90°    | 24.4   | 25.2   | 26.1   | 27.0   | 27.4   | 27.6   | 28.1   | 28.5   | 29.0   | 29.4   | 29.0   |
| 92.5°  | 27.0   | 28.5   | 30.0   | 31.5   | 32.3   | 32.4   | 32.6   | 32.9   | 33.1   | 33.3   | 33.1   |
| 95°    | 31.9   | 33.4   | 34.9   | 36.4   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   |
| 97.5°  | 33.1   | 34.8   | 36.6   | 38.3   | 39.2   | 39.3   | 39.5   | 39.8   | 40.0   | 40.2   | 40.0   |
| 100°   | 34.1   | 35.8   | 37.6   | 39.3   | 40.2   | 40.3   | 40.5   | 40.7   | 40.9   | 41.1   | 40.9   |
| 102.5° | 65.3   | 58.1   | 51.0   | 43.8   | 40.2   | 40.4   | 40.8   | 41.3   | 41.7   | 42.1   | 41.7   |
| 105°   | 176.0  | 137.4  | 98.9   | 60.4   | 41.1   | 41.3   | 41.8   | 42.2   | 42.7   | 43.1   | 42.7   |
| 107.5° | 347.5  | 314.0  | 280.5  | 247.0  | 230.2  | 215.9  | 187.4  | 158.9  | 130.4  | 101.9  | 130.4  |
| 110°   | 434.6  | 427.4  | 420.2  | 413.0  | 409.4  | 393.8  | 362.7  | 331.6  | 300.5  | 269.4  | 300.5  |

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 505.5  | 507.4  | 509.4  | 511.3  | 512.3  | 512.1  | 511.6  | 511.2  | 510.7  | 510.3  | 510.7  |
| 115°   | 564.4  | 566.6  | 568.7  | 570.9  | 572.0  | 572.4  | 573.3  | 574.2  | 575.1  | 576.0  | 575.1  |
| 117.5° | 621.8  | 623.5  | 625.3  | 627.0  | 627.9  | 628.0  | 628.2  | 628.5  | 628.7  | 628.9  | 628.7  |
| 120°   | 677.6  | 679.4  | 681.1  | 682.8  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  |
| 122.5° | 732.8  | 733.9  | 735.0  | 736.1  | 736.6  | 736.7  | 736.9  | 737.2  | 737.4  | 737.6  | 737.4  |
| 125°   | 784.0  | 784.5  | 784.9  | 785.4  | 785.6  | 785.8  | 786.2  | 786.7  | 787.1  | 787.5  | 787.1  |
| 127.5° | 836.2  | 836.8  | 837.5  | 838.2  | 838.5  | 838.3  | 837.8  | 837.4  | 836.9  | 836.5  | 836.9  |
| 130°   | 882.5  | 883.3  | 884.2  | 885.1  | 885.5  | 885.3  | 884.8  | 884.4  | 883.9  | 883.5  | 883.9  |
| 132.5° | 926.5  | 927.4  | 928.3  | 929.2  | 929.6  | 929.3  | 928.6  | 927.9  | 927.3  | 926.6  | 927.3  |
| 135°   | 971.3  | 972.0  | 972.6  | 973.3  | 973.6  | 973.3  | 972.6  | 972.0  | 971.3  | 970.7  | 971.3  |
| 137.5° | 1011.0 | 1012.1 | 1013.2 | 1014.3 | 1014.8 | 1014.6 | 1014.1 | 1013.7 | 1013.2 | 1012.8 | 1013.2 |
| 140°   | 1049.0 | 1049.8 | 1050.7 | 1051.6 | 1052.0 | 1051.8 | 1051.3 | 1050.9 | 1050.4 | 1050.0 | 1050.4 |
| 142.5° | 1085.0 | 1085.6 | 1086.3 | 1087.0 | 1087.3 | 1087.0 | 1086.3 | 1085.6 | 1085.0 | 1084.3 | 1085.0 |
| 145°   | 1118.0 | 1118.5 | 1118.9 | 1119.4 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 |
| 147.5° | 1148.4 | 1148.9 | 1149.3 | 1149.8 | 1150.0 | 1149.5 | 1148.4 | 1147.3 | 1146.2 | 1145.1 | 1146.2 |
| 150°   | 1175.8 | 1176.3 | 1176.7 | 1177.2 | 1177.4 | 1177.1 | 1176.4 | 1175.7 | 1175.1 | 1174.4 | 1175.1 |
| 152.5° | 1199.8 | 1200.7 | 1201.6 | 1202.5 | 1202.9 | 1202.4 | 1201.3 | 1200.2 | 1199.1 | 1198.0 | 1199.1 |
| 155°   | 1221.6 | 1222.7 | 1223.8 | 1224.9 | 1225.4 | 1224.7 | 1223.4 | 1222.1 | 1220.8 | 1219.5 | 1220.8 |
| 157.5° | 1241.4 | 1242.7 | 1244.0 | 1245.3 | 1246.0 | 1245.1 | 1243.4 | 1241.6 | 1239.9 | 1238.1 | 1239.9 |
| 160°   | 1258.0 | 1259.3 | 1260.6 | 1261.9 | 1262.6 | 1261.8 | 1260.3 | 1258.8 | 1257.2 | 1255.7 | 1257.2 |
| 162.5° | 1272.9 | 1274.5 | 1276.0 | 1277.5 | 1278.3 | 1277.6 | 1276.3 | 1275.0 | 1273.7 | 1272.4 | 1273.7 |
| 165°   | 1285.9 | 1287.7 | 1289.4 | 1291.1 | 1292.0 | 1291.2 | 1289.7 | 1288.2 | 1286.6 | 1285.1 | 1286.6 |
| 167.5° | 1296.7 | 1298.4 | 1300.2 | 1301.9 | 1302.8 | 1301.9 | 1300.2 | 1298.4 | 1296.7 | 1294.9 | 1296.7 |
| 170°   | 1305.5 | 1307.2 | 1309.0 | 1310.7 | 1311.6 | 1310.7 | 1309.0 | 1307.2 | 1305.5 | 1303.7 | 1305.5 |
| 172.5° | 1311.4 | 1313.1 | 1314.9 | 1316.6 | 1317.5 | 1316.5 | 1314.5 | 1312.6 | 1310.6 | 1308.6 | 1310.6 |
| 175°   | 1316.0 | 1317.6 | 1319.1 | 1320.6 | 1321.4 | 1320.5 | 1318.8 | 1317.0 | 1315.3 | 1313.5 | 1315.3 |
| 177.5° | 1318.2 | 1320.0 | 1321.7 | 1323.4 | 1324.3 | 1323.2 | 1321.0 | 1318.9 | 1316.7 | 1314.5 | 1316.7 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  | 757.1  |
| 2.5°   | 811.4  | 813.6  | 807.7  | 806.2  | 806.2  | 809.2  | 807.0  | 787.2  | 790.8  | 786.4  | 785.0  |
| 5°     | 900.9  | 896.5  | 890.6  | 887.7  | 884.0  | 873.7  | 873.0  | 850.3  | 845.9  | 831.2  | 824.6  |
| 7.5°   | 999.2  | 995.5  | 977.9  | 975.7  | 974.2  | 964.7  | 940.5  | 916.3  | 898.7  | 881.8  | 865.7  |
| 10°    | 1111.4 | 1100.4 | 1092.3 | 1076.2 | 1068.1 | 1054.9 | 1023.4 | 1000.6 | 970.6  | 944.9  | 911.1  |
| 12.5°  | 1246.4 | 1233.9 | 1206.8 | 1195.0 | 1184.8 | 1148.1 | 1116.6 | 1090.9 | 1032.2 | 1014.6 | 972.8  |
| 15°    | 1345.4 | 1319.0 | 1316.1 | 1290.4 | 1288.9 | 1248.6 | 1188.4 | 1160.6 | 1115.1 | 1050.5 | 1007.2 |
| 17.5°  | 1452.5 | 1429.1 | 1410.7 | 1379.9 | 1375.5 | 1337.4 | 1293.4 | 1225.1 | 1175.2 | 1113.6 | 1058.6 |
| 20°    | 1531.0 | 1518.6 | 1487.0 | 1474.6 | 1448.9 | 1416.6 | 1371.1 | 1286.7 | 1225.9 | 1164.2 | 1096.7 |
| 22.5°  | 1593.4 | 1580.9 | 1556.0 | 1539.1 | 1524.4 | 1482.6 | 1428.3 | 1356.4 | 1272.8 | 1192.1 | 1122.4 |
| 25°    | 1592.7 | 1589.0 | 1578.7 | 1570.7 | 1559.7 | 1528.8 | 1483.4 | 1414.4 | 1321.2 | 1232.5 | 1135.6 |
| 27.5°  | 1502.4 | 1512.7 | 1530.3 | 1539.1 | 1536.9 | 1532.5 | 1506.8 | 1448.9 | 1365.2 | 1259.6 | 1151.0 |
| 30°    | 1314.6 | 1352.0 | 1385.1 | 1429.1 | 1442.3 | 1474.6 | 1489.2 | 1456.2 | 1389.5 | 1291.2 | 1170.8 |
| 32.5°  | 1090.1 | 1144.4 | 1216.3 | 1240.5 | 1282.3 | 1344.7 | 1414.4 | 1426.9 | 1385.1 | 1309.5 | 1183.3 |
| 35°    | 894.3  | 939.0  | 994.8  | 1032.9 | 1070.3 | 1171.6 | 1259.6 | 1335.9 | 1349.8 | 1300.0 | 1180.4 |
| 37.5°  | 740.2  | 771.8  | 820.9  | 853.2  | 887.7  | 974.2  | 1097.5 | 1196.5 | 1266.2 | 1267.7 | 1172.3 |
| 40°    | 628.7  | 642.6  | 685.2  | 708.7  | 741.7  | 816.5  | 926.5  | 1055.7 | 1157.6 | 1204.6 | 1151.0 |
| 42.5°  | 532.6  | 550.9  | 586.2  | 603.8  | 625.0  | 690.3  | 763.0  | 885.5  | 1011.6 | 1112.1 | 1111.4 |
| 45°    | 475.4  | 488.6  | 504.7  | 519.4  | 543.6  | 582.5  | 665.4  | 757.1  | 878.1  | 991.8  | 1036.6 |
| 47.5°  | 424.8  | 437.2  | 453.4  | 457.8  | 473.9  | 510.6  | 561.2  | 641.2  | 754.1  | 867.1  | 951.5  |
| 50°    | 382.2  | 392.5  | 403.5  | 411.6  | 418.9  | 449.0  | 487.1  | 554.6  | 644.8  | 754.1  | 859.1  |
| 52.5°  | 349.2  | 356.5  | 366.1  | 370.5  | 377.1  | 399.1  | 428.4  | 478.3  | 552.4  | 652.2  | 754.1  |
| 55°    | 318.4  | 323.5  | 329.4  | 336.7  | 339.7  | 355.8  | 378.5  | 421.1  | 476.1  | 565.6  | 662.4  |
| 57.5°  | 289.8  | 292.0  | 295.6  | 300.0  | 303.7  | 317.7  | 337.5  | 366.1  | 414.5  | 483.4  | 575.1  |
| 60°    | 257.5  | 263.4  | 265.6  | 270.0  | 272.2  | 283.2  | 298.6  | 322.8  | 360.2  | 419.6  | 488.6  |
| 62.5°  | 230.4  | 234.0  | 237.7  | 239.9  | 245.0  | 248.7  | 261.2  | 283.2  | 314.0  | 358.0  | 420.4  |
| 65°    | 206.1  | 207.6  | 209.8  | 212.0  | 213.5  | 217.9  | 229.6  | 244.3  | 267.8  | 306.6  | 355.1  |
| 67.5°  | 178.3  | 179.7  | 182.7  | 183.4  | 184.9  | 190.7  | 197.3  | 209.8  | 229.6  | 259.0  | 298.6  |
| 70°    | 151.1  | 153.3  | 154.8  | 156.3  | 158.5  | 160.7  | 168.0  | 178.3  | 193.7  | 214.2  | 245.0  |
| 72.5°  | 127.6  | 129.8  | 129.8  | 131.3  | 130.6  | 133.5  | 140.9  | 148.2  | 158.5  | 175.3  | 202.5  |
| 75°    | 104.2  | 104.2  | 105.6  | 106.4  | 107.1  | 110.0  | 113.0  | 118.8  | 126.9  | 140.1  | 157.0  |
| 77.5°  | 82.2   | 81.4   | 82.9   | 82.9   | 82.9   | 85.1   | 88.0   | 91.0   | 96.1   | 105.6  | 118.8  |
| 80°    | 60.2   | 60.2   | 61.6   | 62.4   | 60.9   | 61.6   | 63.1   | 66.0   | 69.7   | 76.3   | 83.6   |
| 82.5°  | 39.6   | 42.5   | 41.8   | 42.5   | 41.8   | 43.3   | 44.0   | 44.8   | 46.2   | 49.2   | 54.3   |
| 85°    | 24.2   | 24.2   | 24.2   | 24.9   | 24.2   | 24.9   | 24.9   | 24.9   | 25.7   | 27.1   | 29.3   |
| 87.5°  | 10.3   | 10.3   | 10.3   | 11.0   | 10.3   | 10.3   | 11.0   | 10.3   | 11.0   | 11.0   | 11.7   |
| 90°    | 28.5   | 28.1   | 27.6   | 27.4   | 27.0   | 26.1   | 25.2   | 24.4   | 23.5   | 20.7   | 17.9   |
| 92.5°  | 32.9   | 32.6   | 32.4   | 32.3   | 31.5   | 30.0   | 28.5   | 27.0   | 25.5   | 23.5   | 21.6   |
| 95°    | 37.2   | 37.2   | 37.2   | 37.2   | 36.4   | 34.9   | 33.4   | 31.9   | 30.4   | 28.0   | 25.6   |
| 97.5°  | 39.8   | 39.5   | 39.3   | 39.2   | 38.3   | 36.6   | 34.8   | 33.1   | 31.3   | 42.4   | 53.5   |
| 100°   | 40.7   | 40.5   | 40.3   | 40.2   | 39.3   | 37.6   | 35.8   | 34.1   | 32.3   | 66.3   | 100.2  |
| 102.5° | 41.3   | 40.8   | 40.4   | 40.2   | 43.8   | 51.0   | 58.1   | 65.3   | 72.5   | 110.4  | 148.2  |
| 105°   | 42.2   | 41.8   | 41.3   | 41.1   | 60.4   | 98.9   | 137.4  | 176.0  | 214.5  | 234.1  | 253.7  |
| 107.5° | 158.9  | 187.4  | 215.9  | 230.2  | 247.0  | 280.5  | 314.0  | 347.5  | 381.0  | 377.7  | 374.5  |
| 110°   | 331.6  | 362.7  | 393.8  | 409.4  | 413.0  | 420.2  | 427.4  | 434.6  | 441.8  | 439.4  | 437.0  |

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 511.2  | 511.6  | 512.1  | 512.3  | 511.3  | 509.4  | 507.4  | 505.5  | 503.5  | 501.1  | 498.7  |
| 115°   | 574.2  | 573.3  | 572.4  | 572.0  | 570.9  | 568.7  | 566.6  | 564.4  | 562.2  | 560.2  | 558.3  |
| 117.5° | 628.5  | 628.2  | 628.0  | 627.9  | 627.0  | 625.3  | 623.5  | 621.8  | 620.0  | 618.9  | 617.8  |
| 120°   | 683.7  | 683.7  | 683.7  | 683.7  | 682.8  | 681.1  | 679.4  | 677.6  | 675.9  | 675.2  | 674.6  |
| 122.5° | 737.2  | 736.9  | 736.7  | 736.6  | 736.1  | 735.0  | 733.9  | 732.8  | 731.7  | 730.8  | 730.0  |
| 125°   | 786.7  | 786.2  | 785.8  | 785.6  | 785.4  | 784.9  | 784.5  | 784.0  | 783.6  | 782.7  | 781.9  |
| 127.5° | 837.4  | 837.8  | 838.3  | 838.5  | 838.2  | 837.5  | 836.8  | 836.2  | 835.5  | 834.4  | 833.3  |
| 130°   | 884.4  | 884.8  | 885.3  | 885.5  | 885.1  | 884.2  | 883.3  | 882.5  | 881.6  | 880.7  | 879.9  |
| 132.5° | 927.9  | 928.6  | 929.3  | 929.6  | 929.2  | 928.3  | 927.4  | 926.5  | 925.6  | 925.0  | 924.3  |
| 135°   | 972.0  | 972.6  | 973.3  | 973.6  | 973.3  | 972.6  | 972.0  | 971.3  | 970.7  | 969.8  | 969.0  |
| 137.5° | 1013.7 | 1014.1 | 1014.6 | 1014.8 | 1014.3 | 1013.2 | 1012.1 | 1011.0 | 1009.9 | 1009.5 | 1009.0 |
| 140°   | 1050.9 | 1051.3 | 1051.8 | 1052.0 | 1051.6 | 1050.7 | 1049.8 | 1049.0 | 1048.1 | 1047.5 | 1046.8 |
| 142.5° | 1085.6 | 1086.3 | 1087.0 | 1087.3 | 1087.0 | 1086.3 | 1085.6 | 1085.0 | 1084.3 | 1083.7 | 1083.0 |
| 145°   | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.4 | 1118.9 | 1118.5 | 1118.0 | 1117.6 | 1117.2 | 1116.8 |
| 147.5° | 1147.3 | 1148.4 | 1149.5 | 1150.0 | 1149.8 | 1149.3 | 1148.9 | 1148.4 | 1148.0 | 1147.6 | 1147.1 |
| 150°   | 1175.7 | 1176.4 | 1177.1 | 1177.4 | 1177.2 | 1176.7 | 1176.3 | 1175.8 | 1175.4 | 1175.0 | 1174.6 |
| 152.5° | 1200.2 | 1201.3 | 1202.4 | 1202.9 | 1202.5 | 1201.6 | 1200.7 | 1199.8 | 1198.9 | 1198.7 | 1198.5 |
| 155°   | 1222.1 | 1223.4 | 1224.7 | 1225.4 | 1224.9 | 1223.8 | 1222.7 | 1221.6 | 1220.5 | 1220.3 | 1220.1 |
| 157.5° | 1241.6 | 1243.4 | 1245.1 | 1246.0 | 1245.3 | 1244.0 | 1242.7 | 1241.4 | 1240.1 | 1240.3 | 1240.5 |
| 160°   | 1258.8 | 1260.3 | 1261.8 | 1262.6 | 1261.9 | 1260.6 | 1259.3 | 1258.0 | 1256.7 | 1256.9 | 1257.1 |
| 162.5° | 1275.0 | 1276.3 | 1277.6 | 1278.3 | 1277.5 | 1276.0 | 1274.5 | 1272.9 | 1271.4 | 1271.6 | 1271.8 |
| 165°   | 1288.2 | 1289.7 | 1291.2 | 1292.0 | 1291.1 | 1289.4 | 1287.7 | 1285.9 | 1284.2 | 1284.4 | 1284.6 |
| 167.5° | 1298.4 | 1300.2 | 1301.9 | 1302.8 | 1301.9 | 1300.2 | 1298.4 | 1296.7 | 1294.9 | 1294.9 | 1294.9 |
| 170°   | 1307.2 | 1309.0 | 1310.7 | 1311.6 | 1310.7 | 1309.0 | 1307.2 | 1305.5 | 1303.7 | 1303.7 | 1303.7 |
| 172.5° | 1312.6 | 1314.5 | 1316.5 | 1317.5 | 1316.6 | 1314.9 | 1313.1 | 1311.4 | 1309.6 | 1309.4 | 1309.2 |
| 175°   | 1317.0 | 1318.8 | 1320.5 | 1321.4 | 1320.6 | 1319.1 | 1317.6 | 1316.0 | 1314.5 | 1314.3 | 1314.1 |
| 177.5° | 1318.9 | 1321.0 | 1323.2 | 1324.3 | 1323.4 | 1321.7 | 1320.0 | 1318.2 | 1316.5 | 1316.3 | 1316.1 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.1  | 757.1 | 757.1  | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |
| 2.5°   | 777.6  | 775.4 | 775.4  | 774.0 | 769.6 | 761.5 | 760.8 | 762.2 | 757.8 | 753.4 | 746.8 |
| 5°     | 815.8  | 801.8 | 797.4  | 793.0 | 784.2 | 769.6 | 763.7 | 758.6 | 750.5 | 740.9 | 730.7 |
| 7.5°   | 848.1  | 828.2 | 822.4  | 814.3 | 796.7 | 776.2 | 763.0 | 751.9 | 740.9 | 727.7 | 715.3 |
| 10°    | 888.4  | 859.8 | 845.9  | 834.1 | 809.9 | 781.3 | 761.5 | 745.3 | 727.7 | 711.6 | 695.5 |
| 12.5°  | 933.9  | 887.7 | 883.3  | 854.7 | 826.8 | 784.2 | 760.0 | 736.5 | 713.1 | 693.3 | 676.4 |
| 15°    | 972.0  | 921.4 | 903.1  | 884.0 | 830.4 | 777.6 | 754.1 | 727.7 | 700.6 | 679.3 | 654.4 |
| 17.5°  | 996.2  | 954.4 | 915.5  | 889.9 | 834.1 | 787.2 | 741.7 | 711.6 | 683.0 | 653.6 | 633.1 |
| 20°    | 1025.6 | 964.7 | 930.9  | 896.5 | 841.4 | 779.8 | 734.3 | 696.9 | 661.7 | 635.3 | 610.4 |
| 22.5°  | 1054.9 | 972.8 | 944.9  | 907.5 | 842.9 | 772.5 | 721.1 | 683.7 | 643.4 | 617.0 | 589.8 |
| 25°    | 1052.0 | 984.5 | 938.3  | 906.7 | 828.2 | 765.9 | 705.7 | 661.7 | 624.3 | 590.6 | 563.4 |
| 27.5°  | 1054.2 | 971.3 | 924.3  | 887.7 | 818.0 | 756.4 | 689.6 | 643.4 | 604.5 | 569.3 | 540.7 |
| 30°    | 1054.9 | 951.5 | 910.4  | 866.4 | 798.9 | 733.6 | 671.3 | 624.3 | 583.2 | 545.1 | 519.4 |
| 32.5°  | 1052.7 | 935.4 | 884.0  | 844.4 | 768.8 | 711.6 | 650.0 | 600.1 | 558.3 | 523.1 | 498.9 |
| 35°    | 1047.6 | 916.3 | 856.9  | 807.0 | 738.0 | 680.1 | 630.2 | 578.8 | 534.1 | 501.8 | 473.9 |
| 37.5°  | 1033.7 | 895.7 | 828.2  | 779.1 | 702.1 | 643.4 | 599.4 | 556.8 | 513.5 | 475.4 | 451.9 |
| 40°    | 1023.4 | 867.9 | 799.6  | 746.1 | 663.2 | 606.0 | 569.3 | 528.9 | 486.4 | 451.9 | 429.2 |
| 42.5°  | 999.9  | 841.4 | 770.3  | 706.5 | 625.0 | 566.3 | 531.9 | 499.6 | 462.9 | 429.2 | 408.6 |
| 45°    | 961.8  | 812.8 | 734.3  | 669.8 | 583.2 | 527.5 | 495.9 | 469.5 | 437.2 | 405.0 | 384.4 |
| 47.5°  | 908.2  | 771.8 | 696.2  | 631.6 | 542.1 | 485.6 | 454.1 | 434.3 | 408.6 | 381.5 | 363.9 |
| 50°    | 850.3  | 727.0 | 657.3  | 593.5 | 502.5 | 447.5 | 416.7 | 398.3 | 381.5 | 356.5 | 339.7 |
| 52.5°  | 774.7  | 679.3 | 612.6  | 551.7 | 460.0 | 407.2 | 380.0 | 366.8 | 349.2 | 331.6 | 316.9 |
| 55°    | 701.3  | 617.7 | 562.7  | 504.7 | 418.2 | 369.0 | 342.6 | 328.7 | 318.4 | 303.7 | 292.0 |
| 57.5°  | 616.2  | 560.5 | 509.9  | 457.0 | 379.3 | 334.5 | 309.6 | 292.7 | 286.1 | 279.5 | 268.5 |
| 60°    | 537.7  | 495.2 | 454.1  | 410.1 | 338.9 | 298.6 | 274.4 | 261.2 | 254.6 | 250.2 | 242.8 |
| 62.5°  | 465.8  | 432.8 | 397.6  | 362.4 | 297.8 | 261.2 | 242.8 | 229.6 | 223.8 | 223.0 | 216.4 |
| 65°    | 396.9  | 373.4 | 344.8  | 310.3 | 259.7 | 227.4 | 209.8 | 201.7 | 195.1 | 195.1 | 190.0 |
| 67.5°  | 327.9  | 311.8 | 289.0  | 264.8 | 225.2 | 195.1 | 179.0 | 171.7 | 168.0 | 168.0 | 164.3 |
| 70°    | 272.9  | 261.9 | 241.4  | 220.1 | 185.6 | 162.9 | 150.4 | 143.8 | 141.6 | 142.3 | 139.4 |
| 72.5°  | 221.5  | 209.8 | 192.9  | 177.5 | 151.9 | 135.0 | 126.2 | 118.8 | 115.2 | 115.9 | 115.2 |
| 75°    | 171.7  | 165.8 | 151.1  | 139.4 | 118.8 | 107.1 | 99.0  | 95.4  | 92.4  | 93.2  | 91.7  |
| 77.5°  | 129.1  | 120.3 | 112.2  | 104.2 | 91.7  | 82.2  | 75.6  | 71.9  | 69.7  | 69.7  | 69.7  |
| 80°    | 88.0   | 86.6  | 80.0   | 75.6  | 65.3  | 58.0  | 52.8  | 52.1  | 49.9  | 49.9  | 49.9  |
| 82.5°  | 57.2   | 53.6  | 49.9   | 47.0  | 41.1  | 36.7  | 34.5  | 33.0  | 32.3  | 31.5  | 33.0  |
| 85°    | 31.5   | 29.3  | 27.9   | 24.9  | 22.7  | 20.5  | 18.3  | 17.6  | 16.9  | 17.6  | 16.9  |
| 87.5°  | 12.5   | 10.3  | 10.3   | 9.5   | 8.8   | 8.1   | 8.1   | 6.6   | 6.6   | 5.9   | 5.9   |
| 90°    | 15.0   | 12.2  | 10.8   | 9.7   | 7.5   | 5.4   | 3.2   | 1.0   | 3.2   | 5.4   | 7.5   |
| 92.5°  | 19.6   | 17.7  | 16.7   | 17.3  | 18.6  | 19.9  | 21.2  | 22.5  | 21.2  | 19.9  | 18.6  |
| 95°    | 23.2   | 20.8  | 19.6   | 24.1  | 33.0  | 41.9  | 50.9  | 59.8  | 50.9  | 41.9  | 33.0  |
| 97.5°  | 64.6   | 75.7  | 81.3   | 84.3  | 90.4  | 96.5  | 102.6 | 108.7 | 102.6 | 96.5  | 90.4  |
| 100°   | 134.2  | 168.1 | 185.1  | 182.9 | 178.6 | 174.2 | 169.9 | 165.5 | 169.9 | 174.2 | 178.6 |
| 102.5° | 186.1  | 224.0 | 242.9  | 241.5 | 238.7 | 235.8 | 233.0 | 230.2 | 233.0 | 235.8 | 238.7 |
| 105°   | 273.3  | 292.9 | 302.7  | 301.5 | 299.1 | 296.7 | 294.3 | 291.9 | 294.3 | 296.7 | 299.1 |
| 107.5° | 371.2  | 367.9 | 366.3  | 365.3 | 363.4 | 361.4 | 359.5 | 357.5 | 359.5 | 361.4 | 363.4 |
| 110°   | 434.6  | 432.2 | 431.0  | 430.1 | 428.4 | 426.7 | 424.9 | 423.2 | 424.9 | 426.7 | 428.4 |

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CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 496.3  | 493.9  | 492.7  | 491.9  | 490.4  | 488.9  | 487.3  | 485.8  | 487.3  | 488.9  | 490.4  |
| 115°   | 556.3  | 554.4  | 553.4  | 552.8  | 551.5  | 550.2  | 548.9  | 547.6  | 548.9  | 550.2  | 551.5  |
| 117.5° | 616.7  | 615.6  | 615.1  | 614.3  | 612.8  | 611.3  | 609.8  | 608.3  | 609.8  | 611.3  | 612.8  |
| 120°   | 673.9  | 673.2  | 672.9  | 671.9  | 670.0  | 668.0  | 666.1  | 664.1  | 666.1  | 668.0  | 670.0  |
| 122.5° | 729.1  | 728.2  | 727.8  | 727.0  | 725.5  | 724.0  | 722.4  | 720.9  | 722.4  | 724.0  | 725.5  |
| 125°   | 781.0  | 780.1  | 779.7  | 778.8  | 777.1  | 775.4  | 773.6  | 771.9  | 773.6  | 775.4  | 777.1  |
| 127.5° | 832.2  | 831.1  | 830.6  | 829.7  | 828.0  | 826.3  | 824.5  | 822.8  | 824.5  | 826.3  | 828.0  |
| 130°   | 879.0  | 878.1  | 877.7  | 876.8  | 875.1  | 873.3  | 871.6  | 869.8  | 871.6  | 873.3  | 875.1  |
| 132.5° | 923.7  | 923.0  | 922.7  | 921.8  | 920.1  | 918.4  | 916.6  | 914.9  | 916.6  | 918.4  | 920.1  |
| 135°   | 968.1  | 967.2  | 966.8  | 966.1  | 964.8  | 963.5  | 962.2  | 960.9  | 962.2  | 963.5  | 964.8  |
| 137.5° | 1008.6 | 1008.1 | 1007.9 | 1007.0 | 1005.3 | 1003.6 | 1001.8 | 1000.1 | 1001.8 | 1003.6 | 1005.3 |
| 140°   | 1046.2 | 1045.5 | 1045.2 | 1044.5 | 1043.2 | 1041.9 | 1040.6 | 1039.3 | 1040.6 | 1041.9 | 1043.2 |
| 142.5° | 1082.4 | 1081.7 | 1081.4 | 1080.7 | 1079.4 | 1078.1 | 1076.8 | 1075.5 | 1076.8 | 1078.1 | 1079.4 |
| 145°   | 1116.3 | 1115.9 | 1115.7 | 1114.9 | 1113.4 | 1111.9 | 1110.3 | 1108.8 | 1110.3 | 1111.9 | 1113.4 |
| 147.5° | 1146.7 | 1146.2 | 1146.0 | 1145.5 | 1144.4 | 1143.3 | 1142.2 | 1141.1 | 1142.2 | 1143.3 | 1144.4 |
| 150°   | 1174.1 | 1173.7 | 1173.5 | 1173.2 | 1172.5 | 1171.8 | 1171.2 | 1170.5 | 1171.2 | 1171.8 | 1172.5 |
| 152.5° | 1198.3 | 1198.1 | 1198.0 | 1197.9 | 1197.7 | 1197.4 | 1197.2 | 1197.0 | 1197.2 | 1197.4 | 1197.7 |
| 155°   | 1219.8 | 1219.6 | 1219.5 | 1219.7 | 1220.2 | 1220.6 | 1221.1 | 1221.5 | 1221.1 | 1220.6 | 1220.2 |
| 157.5° | 1240.8 | 1241.0 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 | 1241.1 |
| 160°   | 1257.4 | 1257.6 | 1257.7 | 1257.8 | 1258.0 | 1258.3 | 1258.5 | 1258.7 | 1258.5 | 1258.3 | 1258.0 |
| 162.5° | 1272.1 | 1272.3 | 1272.4 | 1272.7 | 1273.4 | 1274.0 | 1274.7 | 1275.3 | 1274.7 | 1274.0 | 1273.4 |
| 165°   | 1284.8 | 1285.0 | 1285.1 | 1285.4 | 1286.1 | 1286.8 | 1287.4 | 1288.1 | 1287.4 | 1286.8 | 1286.1 |
| 167.5° | 1294.9 | 1294.9 | 1294.9 | 1295.3 | 1296.2 | 1297.1 | 1297.9 | 1298.8 | 1297.9 | 1297.1 | 1296.2 |
| 170°   | 1303.7 | 1303.7 | 1303.7 | 1304.1 | 1305.0 | 1305.9 | 1306.8 | 1307.7 | 1306.8 | 1305.9 | 1305.0 |
| 172.5° | 1308.9 | 1308.7 | 1308.6 | 1309.1 | 1310.2 | 1311.3 | 1312.4 | 1313.5 | 1312.4 | 1311.3 | 1310.2 |
| 175°   | 1313.8 | 1313.6 | 1313.5 | 1314.0 | 1315.1 | 1316.2 | 1317.3 | 1318.4 | 1317.3 | 1316.2 | 1315.1 |
| 177.5° | 1315.8 | 1315.6 | 1315.5 | 1316.0 | 1317.1 | 1318.2 | 1319.3 | 1320.4 | 1319.3 | 1318.2 | 1317.1 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.1 | 757.1  | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |
| 2.5°   | 745.3 | 744.6  | 746.1 | 741.7 | 734.3 | 730.7 | 720.4 | 718.2 | 717.5 | 718.2 | 718.9 |
| 5°     | 724.8 | 724.1  | 721.9 | 714.5 | 705.7 | 699.1 | 686.7 | 685.9 | 681.5 | 677.1 | 679.3 |
| 7.5°   | 705.0 | 702.1  | 697.7 | 688.1 | 676.4 | 669.1 | 658.8 | 651.4 | 645.6 | 641.9 | 639.0 |
| 10°    | 685.2 | 680.8  | 676.4 | 663.9 | 649.2 | 638.2 | 625.8 | 619.9 | 613.3 | 610.4 | 607.4 |
| 12.5°  | 659.5 | 655.1  | 647.0 | 632.4 | 623.6 | 609.6 | 597.2 | 591.3 | 587.6 | 581.8 | 578.1 |
| 15°    | 639.0 | 630.2  | 625.8 | 610.4 | 592.0 | 590.6 | 567.8 | 566.3 | 559.0 | 559.0 | 553.1 |
| 17.5°  | 615.5 | 608.9  | 600.8 | 585.4 | 572.2 | 559.0 | 547.3 | 542.9 | 536.3 | 534.8 | 531.9 |
| 20°    | 592.8 | 584.0  | 581.0 | 565.6 | 551.7 | 535.5 | 523.1 | 518.7 | 515.7 | 512.8 | 515.0 |
| 22.5°  | 569.3 | 561.9  | 554.6 | 540.7 | 530.4 | 514.3 | 506.9 | 502.5 | 498.1 | 496.7 | 497.4 |
| 25°    | 546.5 | 539.9  | 532.6 | 518.7 | 507.7 | 494.5 | 487.8 | 485.6 | 483.4 | 483.4 | 482.7 |
| 27.5°  | 524.5 | 517.9  | 511.3 | 498.9 | 487.8 | 478.3 | 473.2 | 471.0 | 468.8 | 470.2 | 471.7 |
| 30°    | 501.8 | 495.9  | 490.1 | 479.0 | 470.2 | 461.4 | 458.5 | 457.0 | 456.3 | 460.0 | 460.0 |
| 32.5°  | 481.2 | 476.1  | 471.7 | 461.4 | 452.6 | 445.3 | 443.1 | 443.8 | 444.6 | 446.8 | 448.2 |
| 35°    | 460.0 | 456.3  | 451.9 | 443.1 | 435.8 | 429.2 | 429.9 | 429.9 | 431.4 | 435.0 | 438.0 |
| 37.5°  | 440.9 | 435.8  | 432.1 | 424.8 | 418.9 | 413.0 | 415.2 | 417.4 | 418.9 | 423.3 | 424.8 |
| 40°    | 418.2 | 416.0  | 413.0 | 405.7 | 400.6 | 399.8 | 400.6 | 402.0 | 405.0 | 407.2 | 409.4 |
| 42.5°  | 399.8 | 396.9  | 393.2 | 387.3 | 382.9 | 383.7 | 384.4 | 385.9 | 387.3 | 391.0 | 393.2 |
| 45°    | 379.3 | 377.1  | 374.1 | 369.0 | 365.3 | 366.1 | 366.8 | 366.8 | 368.3 | 372.7 | 374.1 |
| 47.5°  | 356.5 | 357.3  | 353.6 | 348.5 | 346.3 | 346.3 | 346.3 | 347.7 | 351.4 | 352.9 | 353.6 |
| 50°    | 334.5 | 333.1  | 332.3 | 327.2 | 325.7 | 325.0 | 325.7 | 326.5 | 331.6 | 330.9 | 333.1 |
| 52.5°  | 311.0 | 311.0  | 310.3 | 307.4 | 305.2 | 305.2 | 303.7 | 307.4 | 308.8 | 310.3 | 312.5 |
| 55°    | 288.3 | 286.1  | 285.4 | 283.9 | 281.0 | 280.2 | 281.7 | 286.1 | 287.6 | 289.0 | 291.2 |
| 57.5°  | 263.4 | 263.4  | 261.9 | 259.7 | 259.7 | 259.7 | 259.7 | 262.6 | 264.8 | 266.3 | 270.7 |
| 60°    | 240.6 | 237.7  | 235.5 | 235.5 | 235.5 | 234.8 | 239.2 | 239.2 | 243.6 | 244.3 | 245.8 |
| 62.5°  | 213.5 | 212.0  | 210.5 | 211.3 | 210.5 | 212.0 | 213.5 | 216.4 | 217.1 | 219.3 | 221.5 |
| 65°    | 187.8 | 187.8  | 186.3 | 190.7 | 187.8 | 187.8 | 191.5 | 191.5 | 192.9 | 195.1 | 198.1 |
| 67.5°  | 162.9 | 163.6  | 162.1 | 162.1 | 163.6 | 164.3 | 165.1 | 168.0 | 168.7 | 171.7 | 175.3 |
| 70°    | 137.2 | 138.7  | 139.4 | 137.9 | 139.4 | 140.9 | 142.3 | 143.1 | 146.0 | 147.5 | 149.7 |
| 72.5°  | 114.4 | 115.9  | 113.7 | 114.4 | 115.2 | 116.6 | 117.4 | 118.8 | 120.3 | 124.7 | 126.2 |
| 75°    | 91.7  | 91.0   | 90.2  | 93.2  | 91.7  | 94.6  | 95.4  | 95.4  | 96.8  | 100.5 | 102.0 |
| 77.5°  | 70.4  | 70.4   | 71.2  | 69.7  | 71.9  | 71.2  | 71.9  | 74.1  | 76.3  | 76.3  | 82.2  |
| 80°    | 49.2  | 50.6   | 50.6  | 50.6  | 51.4  | 52.1  | 50.6  | 54.3  | 55.0  | 55.0  | 57.2  |
| 82.5°  | 31.5  | 32.3   | 31.5  | 33.0  | 33.0  | 34.5  | 33.7  | 34.5  | 35.9  | 37.4  | 38.1  |
| 85°    | 16.9  | 16.9   | 18.3  | 18.3  | 17.6  | 18.3  | 17.6  | 18.3  | 19.8  | 19.8  | 20.5  |
| 87.5°  | 5.9   | 5.9    | 5.9   | 5.9   | 6.6   | 5.9   | 6.6   | 6.6   | 5.9   | 5.9   | 8.1   |
| 90°    | 9.7   | 10.8   | 12.2  | 15.0  | 17.9  | 20.7  | 23.5  | 24.4  | 25.2  | 26.1  | 27.0  |
| 92.5°  | 17.3  | 16.7   | 17.7  | 19.6  | 21.6  | 23.5  | 25.5  | 27.0  | 28.5  | 30.0  | 31.5  |
| 95°    | 24.1  | 19.6   | 20.8  | 23.2  | 25.6  | 28.0  | 30.4  | 31.9  | 33.4  | 34.9  | 36.4  |
| 97.5°  | 84.3  | 81.3   | 75.7  | 64.6  | 53.5  | 42.4  | 31.3  | 33.1  | 34.8  | 36.6  | 38.3  |
| 100°   | 182.9 | 185.1  | 168.1 | 134.2 | 100.2 | 66.3  | 32.3  | 34.1  | 35.8  | 37.6  | 39.3  |
| 102.5° | 241.5 | 242.9  | 224.0 | 186.1 | 148.2 | 110.4 | 72.5  | 65.3  | 58.1  | 51.0  | 43.8  |
| 105°   | 301.5 | 302.7  | 292.9 | 273.3 | 253.7 | 234.1 | 214.5 | 176.0 | 137.4 | 98.9  | 60.4  |
| 107.5° | 365.3 | 366.3  | 367.9 | 371.2 | 374.5 | 377.7 | 381.0 | 347.5 | 314.0 | 280.5 | 247.0 |
| 110°   | 430.1 | 431.0  | 432.2 | 434.6 | 437.0 | 439.4 | 441.8 | 434.6 | 427.4 | 420.2 | 413.0 |

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 491.9  | 492.7  | 493.9  | 496.3  | 498.7  | 501.1  | 503.5  | 505.5  | 507.4  | 509.4  | 511.3  |
| 115°   | 552.8  | 553.4  | 554.4  | 556.3  | 558.3  | 560.2  | 562.2  | 564.4  | 566.6  | 568.7  | 570.9  |
| 117.5° | 614.3  | 615.1  | 615.6  | 616.7  | 617.8  | 618.9  | 620.0  | 621.8  | 623.5  | 625.3  | 627.0  |
| 120°   | 671.9  | 672.9  | 673.2  | 673.9  | 674.6  | 675.2  | 675.9  | 677.6  | 679.4  | 681.1  | 682.8  |
| 122.5° | 727.0  | 727.8  | 728.2  | 729.1  | 730.0  | 730.8  | 731.7  | 732.8  | 733.9  | 735.0  | 736.1  |
| 125°   | 778.8  | 779.7  | 780.1  | 781.0  | 781.9  | 782.7  | 783.6  | 784.0  | 784.5  | 784.9  | 785.4  |
| 127.5° | 829.7  | 830.6  | 831.1  | 832.2  | 833.3  | 834.4  | 835.5  | 836.2  | 836.8  | 837.5  | 838.2  |
| 130°   | 876.8  | 877.7  | 878.1  | 879.0  | 879.9  | 880.7  | 881.6  | 882.5  | 883.3  | 884.2  | 885.1  |
| 132.5° | 921.8  | 922.7  | 923.0  | 923.7  | 924.3  | 925.0  | 925.6  | 926.5  | 927.4  | 928.3  | 929.2  |
| 135°   | 966.1  | 966.8  | 967.2  | 968.1  | 969.0  | 969.8  | 970.7  | 971.3  | 972.0  | 972.6  | 973.3  |
| 137.5° | 1007.0 | 1007.9 | 1008.1 | 1008.6 | 1009.0 | 1009.5 | 1009.9 | 1011.0 | 1012.1 | 1013.2 | 1014.3 |
| 140°   | 1044.5 | 1045.2 | 1045.5 | 1046.2 | 1046.8 | 1047.5 | 1048.1 | 1049.0 | 1049.8 | 1050.7 | 1051.6 |
| 142.5° | 1080.7 | 1081.4 | 1081.7 | 1082.4 | 1083.0 | 1083.7 | 1084.3 | 1085.0 | 1085.6 | 1086.3 | 1087.0 |
| 145°   | 1114.9 | 1115.7 | 1115.9 | 1116.3 | 1116.8 | 1117.2 | 1117.6 | 1118.0 | 1118.5 | 1118.9 | 1119.4 |
| 147.5° | 1145.5 | 1146.0 | 1146.2 | 1146.7 | 1147.1 | 1147.6 | 1148.0 | 1148.4 | 1148.9 | 1149.3 | 1149.8 |
| 150°   | 1173.2 | 1173.5 | 1173.7 | 1174.1 | 1174.6 | 1175.0 | 1175.4 | 1175.8 | 1176.3 | 1176.7 | 1177.2 |
| 152.5° | 1197.9 | 1198.0 | 1198.1 | 1198.3 | 1198.5 | 1198.7 | 1198.9 | 1199.8 | 1200.7 | 1201.6 | 1202.5 |
| 155°   | 1219.7 | 1219.5 | 1219.6 | 1219.8 | 1220.1 | 1220.3 | 1220.5 | 1221.6 | 1222.7 | 1223.8 | 1224.9 |
| 157.5° | 1241.1 | 1241.1 | 1241.0 | 1240.8 | 1240.5 | 1240.3 | 1240.1 | 1241.4 | 1242.7 | 1244.0 | 1245.3 |
| 160°   | 1257.8 | 1257.7 | 1257.6 | 1257.4 | 1257.1 | 1256.9 | 1256.7 | 1258.0 | 1259.3 | 1260.6 | 1261.9 |
| 162.5° | 1272.7 | 1272.4 | 1272.3 | 1272.1 | 1271.8 | 1271.6 | 1271.4 | 1272.9 | 1274.5 | 1276.0 | 1277.5 |
| 165°   | 1285.4 | 1285.1 | 1285.0 | 1284.8 | 1284.6 | 1284.4 | 1284.2 | 1285.9 | 1287.7 | 1289.4 | 1291.1 |
| 167.5° | 1295.3 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1296.7 | 1298.4 | 1300.2 | 1301.9 |
| 170°   | 1304.1 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1305.5 | 1307.2 | 1309.0 | 1310.7 |
| 172.5° | 1309.1 | 1308.6 | 1308.7 | 1308.9 | 1309.2 | 1309.4 | 1309.6 | 1311.4 | 1313.1 | 1314.9 | 1316.6 |
| 175°   | 1314.0 | 1313.5 | 1313.6 | 1313.8 | 1314.1 | 1314.3 | 1314.5 | 1316.0 | 1317.6 | 1319.1 | 1320.6 |
| 177.5° | 1316.0 | 1315.5 | 1315.6 | 1315.8 | 1316.1 | 1316.3 | 1316.5 | 1318.2 | 1320.0 | 1321.7 | 1323.4 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 757.1  | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1  |
| 2.5°   | 718.2  | 718.9 | 716.0 | 713.8 | 719.7 | 716.0 | 716.0 | 716.7 | 715.3 | 717.5 | 716.7  |
| 5°     | 677.9  | 678.6 | 673.5 | 674.9 | 672.0 | 671.3 | 670.5 | 674.9 | 674.2 | 673.5 | 674.9  |
| 7.5°   | 638.2  | 638.2 | 636.0 | 634.6 | 634.6 | 632.4 | 635.3 | 634.6 | 636.0 | 636.0 | 638.2  |
| 10°    | 605.2  | 606.7 | 603.0 | 599.4 | 598.6 | 599.4 | 599.4 | 600.1 | 600.8 | 606.0 | 605.2  |
| 12.5°  | 578.1  | 575.9 | 575.1 | 572.9 | 569.3 | 567.8 | 566.3 | 574.4 | 572.2 | 572.2 | 572.2  |
| 15°    | 548.0  | 553.1 | 552.4 | 545.8 | 544.3 | 547.3 | 545.8 | 545.8 | 553.1 | 552.4 | 551.7  |
| 17.5°  | 531.9  | 530.4 | 528.9 | 525.3 | 526.0 | 525.3 | 526.0 | 526.0 | 530.4 | 530.4 | 530.4  |
| 20°    | 513.5  | 510.6 | 510.6 | 509.1 | 509.1 | 506.9 | 509.9 | 510.6 | 513.5 | 513.5 | 514.3  |
| 22.5°  | 497.4  | 495.2 | 495.2 | 494.5 | 495.9 | 493.0 | 495.9 | 496.7 | 496.7 | 498.9 | 498.9  |
| 25°    | 483.4  | 482.0 | 482.0 | 483.4 | 483.4 | 483.4 | 483.4 | 486.4 | 484.2 | 484.9 | 484.2  |
| 27.5°  | 471.0  | 471.7 | 472.4 | 473.2 | 472.4 | 473.2 | 473.9 | 475.4 | 476.1 | 475.4 | 473.9  |
| 30°    | 459.2  | 461.4 | 462.2 | 462.2 | 463.6 | 464.4 | 465.1 | 465.1 | 465.8 | 463.6 | 465.1  |
| 32.5°  | 450.4  | 450.4 | 451.9 | 452.6 | 454.1 | 454.8 | 454.8 | 456.3 | 455.6 | 453.4 | 454.1  |
| 35°    | 438.0  | 438.0 | 440.9 | 442.4 | 444.6 | 443.8 | 444.6 | 444.6 | 445.3 | 443.8 | 441.6  |
| 37.5°  | 425.5  | 427.0 | 427.0 | 429.9 | 430.6 | 431.4 | 430.6 | 432.1 | 431.4 | 429.9 | 429.2  |
| 40°    | 410.8  | 410.1 | 410.8 | 413.0 | 413.8 | 413.8 | 413.8 | 415.2 | 415.2 | 415.2 | 414.5  |
| 42.5°  | 392.5  | 394.7 | 393.9 | 396.1 | 395.4 | 395.4 | 396.9 | 398.3 | 399.1 | 396.9 | 397.6  |
| 45°    | 374.9  | 374.9 | 376.3 | 376.3 | 377.1 | 377.1 | 380.0 | 378.5 | 380.0 | 378.5 | 379.3  |
| 47.5°  | 355.8  | 356.5 | 356.5 | 357.3 | 358.7 | 360.2 | 358.7 | 359.5 | 359.5 | 360.2 | 358.7  |
| 50°    | 334.5  | 334.5 | 336.0 | 338.2 | 341.1 | 339.7 | 338.9 | 341.9 | 339.7 | 339.7 | 338.2  |
| 52.5°  | 312.5  | 314.7 | 315.5 | 317.7 | 319.9 | 320.6 | 321.3 | 319.9 | 320.6 | 318.4 | 319.1  |
| 55°    | 291.2  | 292.0 | 294.9 | 297.1 | 299.3 | 299.3 | 298.6 | 299.3 | 300.0 | 297.1 | 297.1  |
| 57.5°  | 270.0  | 272.2 | 275.1 | 275.1 | 278.0 | 278.0 | 277.3 | 277.3 | 278.0 | 275.8 | 275.1  |
| 60°    | 247.2  | 249.4 | 253.1 | 253.1 | 257.5 | 258.2 | 256.8 | 255.3 | 255.3 | 253.1 | 253.8  |
| 62.5°  | 223.0  | 225.2 | 227.4 | 231.1 | 234.0 | 232.6 | 235.5 | 232.6 | 233.3 | 228.9 | 228.9  |
| 65°    | 201.7  | 202.5 | 206.1 | 209.8 | 209.8 | 211.3 | 209.8 | 210.5 | 208.3 | 208.3 | 205.4  |
| 67.5°  | 176.8  | 176.8 | 180.5 | 184.1 | 187.8 | 187.8 | 187.8 | 185.6 | 185.6 | 183.4 | 183.4  |
| 70°    | 154.8  | 154.1 | 157.7 | 159.9 | 162.1 | 162.9 | 161.4 | 160.7 | 159.2 | 157.0 | 156.3  |
| 72.5°  | 127.6  | 129.1 | 132.8 | 134.3 | 137.9 | 137.2 | 140.9 | 136.5 | 136.5 | 132.8 | 132.0  |
| 75°    | 103.4  | 104.9 | 108.6 | 110.8 | 113.0 | 113.0 | 115.2 | 113.0 | 110.0 | 108.6 | 107.8  |
| 77.5°  | 82.2   | 81.4  | 84.4  | 88.0  | 88.8  | 88.0  | 89.5  | 88.8  | 85.8  | 85.8  | 84.4   |
| 80°    | 58.7   | 60.9  | 63.8  | 63.1  | 66.0  | 65.3  | 65.3  | 63.8  | 63.8  | 61.6  | 63.1   |
| 82.5°  | 38.9   | 41.1  | 41.8  | 41.1  | 41.8  | 43.3  | 44.0  | 43.3  | 43.3  | 41.8  | 42.5   |
| 85°    | 20.5   | 20.5  | 22.0  | 22.7  | 22.0  | 22.0  | 22.7  | 24.9  | 23.5  | 22.0  | 23.5   |
| 87.5°  | 6.6    | 5.9   | 5.9   | 6.6   | 5.9   | 5.9   | 6.6   | 6.6   | 7.3   | 7.3   | 7.3    |
| 90°    | 27.4   | 27.6  | 28.1  | 28.5  | 29.0  | 29.4  | 29.0  | 28.5  | 28.1  | 27.6  | 27.4   |
| 92.5°  | 32.3   | 32.4  | 32.6  | 32.9  | 33.1  | 33.3  | 33.1  | 32.9  | 32.6  | 32.4  | 32.3   |
| 95°    | 37.2   | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2   |
| 97.5°  | 39.2   | 39.3  | 39.5  | 39.8  | 40.0  | 40.2  | 40.0  | 39.8  | 39.5  | 39.3  | 39.2   |
| 100°   | 40.2   | 40.3  | 40.5  | 40.7  | 40.9  | 41.1  | 40.9  | 40.7  | 40.5  | 40.3  | 40.2   |
| 102.5° | 40.2   | 40.4  | 40.8  | 41.3  | 41.7  | 42.1  | 41.7  | 41.3  | 40.8  | 40.4  | 40.2   |
| 105°   | 41.1   | 41.3  | 41.8  | 42.2  | 42.7  | 43.1  | 42.7  | 42.2  | 41.8  | 41.3  | 41.1   |
| 107.5° | 230.2  | 215.9 | 187.4 | 158.9 | 130.4 | 101.9 | 130.4 | 158.9 | 187.4 | 215.9 | 230.2  |
| 110°   | 409.4  | 393.8 | 362.7 | 331.6 | 300.5 | 269.4 | 300.5 | 331.6 | 362.7 | 393.8 | 409.4  |

TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 512.3  | 512.1  | 511.6  | 511.2  | 510.7  | 510.3  | 510.7  | 511.2  | 511.6  | 512.1  | 512.3  |
| 115°   | 572.0  | 572.4  | 573.3  | 574.2  | 575.1  | 576.0  | 575.1  | 574.2  | 573.3  | 572.4  | 572.0  |
| 117.5° | 627.9  | 628.0  | 628.2  | 628.5  | 628.7  | 628.9  | 628.7  | 628.5  | 628.2  | 628.0  | 627.9  |
| 120°   | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  | 683.7  |
| 122.5° | 736.6  | 736.7  | 736.9  | 737.2  | 737.4  | 737.6  | 737.4  | 737.2  | 736.9  | 736.7  | 736.6  |
| 125°   | 785.6  | 785.8  | 786.2  | 786.7  | 787.1  | 787.5  | 787.1  | 786.7  | 786.2  | 785.8  | 785.6  |
| 127.5° | 838.5  | 838.3  | 837.8  | 837.4  | 836.9  | 836.5  | 836.9  | 837.4  | 837.8  | 838.3  | 838.5  |
| 130°   | 885.5  | 885.3  | 884.8  | 884.4  | 883.9  | 883.5  | 883.9  | 884.4  | 884.8  | 885.3  | 885.5  |
| 132.5° | 929.6  | 929.3  | 928.6  | 927.9  | 927.3  | 926.6  | 927.3  | 927.9  | 928.6  | 929.3  | 929.6  |
| 135°   | 973.6  | 973.3  | 972.6  | 972.0  | 971.3  | 970.7  | 971.3  | 972.0  | 972.6  | 973.3  | 973.6  |
| 137.5° | 1014.8 | 1014.6 | 1014.1 | 1013.7 | 1013.2 | 1012.8 | 1013.2 | 1013.7 | 1014.1 | 1014.6 | 1014.8 |
| 140°   | 1052.0 | 1051.8 | 1051.3 | 1050.9 | 1050.4 | 1050.0 | 1050.4 | 1050.9 | 1051.3 | 1051.8 | 1052.0 |
| 142.5° | 1087.3 | 1087.0 | 1086.3 | 1085.6 | 1085.0 | 1084.3 | 1085.0 | 1085.6 | 1086.3 | 1087.0 | 1087.3 |
| 145°   | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 |
| 147.5° | 1150.0 | 1149.5 | 1148.4 | 1147.3 | 1146.2 | 1145.1 | 1146.2 | 1147.3 | 1148.4 | 1149.5 | 1150.0 |
| 150°   | 1177.4 | 1177.1 | 1176.4 | 1175.7 | 1175.1 | 1174.4 | 1175.1 | 1175.7 | 1176.4 | 1177.1 | 1177.4 |
| 152.5° | 1202.9 | 1202.4 | 1201.3 | 1200.2 | 1199.1 | 1198.0 | 1199.1 | 1200.2 | 1201.3 | 1202.4 | 1202.9 |
| 155°   | 1225.4 | 1224.7 | 1223.4 | 1222.1 | 1220.8 | 1219.5 | 1220.8 | 1222.1 | 1223.4 | 1224.7 | 1225.4 |
| 157.5° | 1246.0 | 1245.1 | 1243.4 | 1241.6 | 1239.9 | 1238.1 | 1239.9 | 1241.6 | 1243.4 | 1245.1 | 1246.0 |
| 160°   | 1262.6 | 1261.8 | 1260.3 | 1258.8 | 1257.2 | 1255.7 | 1257.2 | 1258.8 | 1260.3 | 1261.8 | 1262.6 |
| 162.5° | 1278.3 | 1277.6 | 1276.3 | 1275.0 | 1273.7 | 1272.4 | 1273.7 | 1275.0 | 1276.3 | 1277.6 | 1278.3 |
| 165°   | 1292.0 | 1291.2 | 1289.7 | 1288.2 | 1286.6 | 1285.1 | 1286.6 | 1288.2 | 1289.7 | 1291.2 | 1292.0 |
| 167.5° | 1302.8 | 1301.9 | 1300.2 | 1298.4 | 1296.7 | 1294.9 | 1296.7 | 1298.4 | 1300.2 | 1301.9 | 1302.8 |
| 170°   | 1311.6 | 1310.7 | 1309.0 | 1307.2 | 1305.5 | 1303.7 | 1305.5 | 1307.2 | 1309.0 | 1310.7 | 1311.6 |
| 172.5° | 1317.5 | 1316.5 | 1314.5 | 1312.6 | 1310.6 | 1308.6 | 1310.6 | 1312.6 | 1314.5 | 1316.5 | 1317.5 |
| 175°   | 1321.4 | 1320.5 | 1318.8 | 1317.0 | 1315.3 | 1313.5 | 1315.3 | 1317.0 | 1318.8 | 1320.5 | 1321.4 |
| 177.5° | 1324.3 | 1323.2 | 1321.0 | 1318.9 | 1316.7 | 1314.5 | 1316.7 | 1318.9 | 1321.0 | 1323.2 | 1324.3 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

TEST NUMBER: P1030868

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**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1  | 757.1 |
| 2.5°   | 718.9 | 720.4 | 721.1 | 718.2 | 716.0 | 719.7 | 724.8 | 728.5 | 731.4 | 735.1  | 737.3 |
| 5°     | 676.4 | 681.5 | 681.5 | 683.0 | 685.2 | 688.9 | 698.4 | 705.0 | 710.9 | 715.3  | 718.9 |
| 7.5°   | 640.4 | 644.1 | 646.3 | 650.0 | 653.6 | 658.8 | 669.8 | 679.3 | 688.1 | 693.3  | 699.1 |
| 10°    | 608.2 | 611.1 | 614.8 | 617.0 | 623.6 | 630.9 | 644.8 | 652.9 | 663.2 | 671.3  | 678.6 |
| 12.5°  | 577.3 | 587.6 | 589.8 | 589.1 | 595.0 | 603.0 | 617.0 | 629.4 | 640.4 | 648.5  | 656.6 |
| 15°    | 555.3 | 559.0 | 563.4 | 562.7 | 575.1 | 577.3 | 589.1 | 603.8 | 618.4 | 623.6  | 630.9 |
| 17.5°  | 531.1 | 537.0 | 541.4 | 543.6 | 547.3 | 555.3 | 566.3 | 577.3 | 596.4 | 597.2  | 616.2 |
| 20°    | 512.1 | 517.9 | 520.9 | 523.8 | 526.0 | 535.5 | 545.1 | 557.5 | 572.9 | 581.0  | 591.3 |
| 22.5°  | 499.6 | 502.5 | 504.7 | 506.9 | 509.9 | 515.0 | 526.7 | 540.7 | 550.9 | 559.7  | 566.3 |
| 25°    | 484.9 | 487.8 | 490.8 | 492.3 | 494.5 | 497.4 | 506.2 | 517.2 | 531.9 | 537.7  | 544.3 |
| 27.5°  | 474.6 | 474.6 | 476.1 | 476.1 | 479.0 | 482.0 | 488.6 | 498.9 | 510.6 | 517.9  | 526.7 |
| 30°    | 463.6 | 462.9 | 463.6 | 462.9 | 462.2 | 466.6 | 472.4 | 481.2 | 489.3 | 498.1  | 504.0 |
| 32.5°  | 452.6 | 451.9 | 451.9 | 452.6 | 449.7 | 451.9 | 454.8 | 462.9 | 471.7 | 476.1  | 482.7 |
| 35°    | 440.9 | 439.4 | 439.4 | 439.4 | 438.0 | 436.5 | 439.4 | 446.8 | 452.6 | 458.5  | 463.6 |
| 37.5°  | 429.2 | 427.0 | 427.0 | 425.5 | 424.0 | 421.8 | 421.8 | 427.7 | 435.8 | 438.0  | 444.6 |
| 40°    | 413.0 | 413.0 | 411.6 | 410.8 | 409.4 | 407.9 | 405.7 | 410.8 | 418.2 | 420.4  | 425.5 |
| 42.5°  | 396.9 | 394.7 | 393.9 | 393.9 | 393.9 | 391.7 | 390.3 | 393.9 | 398.3 | 402.0  | 405.0 |
| 45°    | 378.5 | 377.1 | 377.8 | 377.1 | 375.6 | 374.9 | 374.1 | 375.6 | 380.7 | 382.2  | 385.9 |
| 47.5°  | 358.7 | 358.0 | 358.0 | 357.3 | 356.5 | 357.3 | 354.3 | 358.0 | 359.5 | 360.9  | 363.9 |
| 50°    | 338.2 | 337.5 | 336.7 | 336.0 | 336.0 | 336.7 | 336.0 | 336.0 | 338.9 | 340.4  | 343.3 |
| 52.5°  | 317.7 | 315.5 | 315.5 | 314.7 | 314.7 | 313.3 | 314.7 | 315.5 | 316.9 | 318.4  | 319.9 |
| 55°    | 295.6 | 295.6 | 293.4 | 293.4 | 292.0 | 292.0 | 292.7 | 292.0 | 294.9 | 296.4  | 296.4 |
| 57.5°  | 274.4 | 271.4 | 272.2 | 270.7 | 269.2 | 268.5 | 268.5 | 270.0 | 271.4 | 271.4  | 272.9 |
| 60°    | 251.6 | 248.7 | 248.0 | 245.0 | 246.5 | 244.3 | 245.0 | 245.0 | 248.0 | 246.5  | 248.0 |
| 62.5°  | 228.9 | 225.2 | 223.0 | 221.5 | 221.5 | 222.3 | 220.8 | 220.1 | 221.5 | 223.0  | 226.0 |
| 65°    | 204.7 | 202.5 | 200.3 | 198.1 | 198.1 | 197.3 | 198.8 | 196.6 | 195.9 | 196.6  | 198.1 |
| 67.5°  | 179.7 | 177.5 | 175.3 | 173.1 | 173.9 | 171.7 | 170.2 | 172.4 | 170.9 | 171.7  | 173.1 |
| 70°    | 155.5 | 154.1 | 149.7 | 148.2 | 147.5 | 148.2 | 147.5 | 146.0 | 148.2 | 147.5  | 148.2 |
| 72.5°  | 131.3 | 129.8 | 127.6 | 124.0 | 124.0 | 123.2 | 122.5 | 122.5 | 121.8 | 121.8  | 121.8 |
| 75°    | 107.8 | 104.9 | 102.7 | 102.0 | 100.5 | 99.8  | 99.0  | 97.6  | 98.3  | 99.0   | 97.6  |
| 77.5°  | 83.6  | 80.0  | 79.2  | 79.2  | 77.0  | 77.0  | 77.8  | 77.0  | 76.3  | 76.3   | 76.3  |
| 80°    | 61.6  | 58.7  | 58.7  | 57.2  | 55.8  | 55.8  | 55.8  | 55.8  | 55.0  | 54.3   | 55.0  |
| 82.5°  | 39.6  | 38.9  | 38.1  | 38.1  | 39.6  | 36.7  | 38.1  | 37.4  | 36.7  | 36.7   | 35.9  |
| 85°    | 22.0  | 22.7  | 22.0  | 22.7  | 21.3  | 22.0  | 22.0  | 22.0  | 21.3  | 22.0   | 20.5  |
| 87.5°  | 8.1   | 8.1   | 8.1   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 9.5   | 8.8    | 8.8   |
| 90°    | 27.0  | 26.1  | 25.2  | 24.4  | 23.5  | 20.7  | 17.9  | 15.0  | 12.2  | 10.8   | 9.7   |
| 92.5°  | 31.5  | 30.0  | 28.5  | 27.0  | 25.5  | 23.5  | 21.6  | 19.6  | 17.7  | 16.7   | 17.3  |
| 95°    | 36.4  | 34.9  | 33.4  | 31.9  | 30.4  | 28.0  | 25.6  | 23.2  | 20.8  | 19.6   | 24.1  |
| 97.5°  | 38.3  | 36.6  | 34.8  | 33.1  | 31.3  | 42.4  | 53.5  | 64.6  | 75.7  | 81.3   | 84.3  |
| 100°   | 39.3  | 37.6  | 35.8  | 34.1  | 32.3  | 66.3  | 100.2 | 134.2 | 168.1 | 185.1  | 182.9 |
| 102.5° | 43.8  | 51.0  | 58.1  | 65.3  | 72.5  | 110.4 | 148.2 | 186.1 | 224.0 | 242.9  | 241.5 |
| 105°   | 60.4  | 98.9  | 137.4 | 176.0 | 214.5 | 234.1 | 253.7 | 273.3 | 292.9 | 302.7  | 301.5 |
| 107.5° | 247.0 | 280.5 | 314.0 | 347.5 | 381.0 | 377.7 | 374.5 | 371.2 | 367.9 | 366.3  | 365.3 |
| 110°   | 413.0 | 420.2 | 427.4 | 434.6 | 441.8 | 439.4 | 437.0 | 434.6 | 432.2 | 431.0  | 430.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 511.3  | 509.4  | 507.4  | 505.5  | 503.5  | 501.1  | 498.7  | 496.3  | 493.9  | 492.7  | 491.9  |
| 115°   | 570.9  | 568.7  | 566.6  | 564.4  | 562.2  | 560.2  | 558.3  | 556.3  | 554.4  | 553.4  | 552.8  |
| 117.5° | 627.0  | 625.3  | 623.5  | 621.8  | 620.0  | 618.9  | 617.8  | 616.7  | 615.6  | 615.1  | 614.3  |
| 120°   | 682.8  | 681.1  | 679.4  | 677.6  | 675.9  | 675.2  | 674.6  | 673.9  | 673.2  | 672.9  | 671.9  |
| 122.5° | 736.1  | 735.0  | 733.9  | 732.8  | 731.7  | 730.8  | 730.0  | 729.1  | 728.2  | 727.8  | 727.0  |
| 125°   | 785.4  | 784.9  | 784.5  | 784.0  | 783.6  | 782.7  | 781.9  | 781.0  | 780.1  | 779.7  | 778.8  |
| 127.5° | 838.2  | 837.5  | 836.8  | 836.2  | 835.5  | 834.4  | 833.3  | 832.2  | 831.1  | 830.6  | 829.7  |
| 130°   | 885.1  | 884.2  | 883.3  | 882.5  | 881.6  | 880.7  | 879.9  | 879.0  | 878.1  | 877.7  | 876.8  |
| 132.5° | 929.2  | 928.3  | 927.4  | 926.5  | 925.6  | 925.0  | 924.3  | 923.7  | 923.0  | 922.7  | 921.8  |
| 135°   | 973.3  | 972.6  | 972.0  | 971.3  | 970.7  | 969.8  | 969.0  | 968.1  | 967.2  | 966.8  | 966.1  |
| 137.5° | 1014.3 | 1013.2 | 1012.1 | 1011.0 | 1009.9 | 1009.5 | 1009.0 | 1008.6 | 1008.1 | 1007.9 | 1007.0 |
| 140°   | 1051.6 | 1050.7 | 1049.8 | 1049.0 | 1048.1 | 1047.5 | 1046.8 | 1046.2 | 1045.5 | 1045.2 | 1044.5 |
| 142.5° | 1087.0 | 1086.3 | 1085.6 | 1085.0 | 1084.3 | 1083.7 | 1083.0 | 1082.4 | 1081.7 | 1081.4 | 1080.7 |
| 145°   | 1119.4 | 1118.9 | 1118.5 | 1118.0 | 1117.6 | 1117.2 | 1116.8 | 1116.3 | 1115.9 | 1115.7 | 1114.9 |
| 147.5° | 1149.8 | 1149.3 | 1148.9 | 1148.4 | 1148.0 | 1147.6 | 1147.1 | 1146.7 | 1146.2 | 1146.0 | 1145.5 |
| 150°   | 1177.2 | 1176.7 | 1176.3 | 1175.8 | 1175.4 | 1175.0 | 1174.6 | 1174.1 | 1173.7 | 1173.5 | 1173.2 |
| 152.5° | 1202.5 | 1201.6 | 1200.7 | 1199.8 | 1198.9 | 1198.7 | 1198.5 | 1198.3 | 1198.1 | 1198.0 | 1197.9 |
| 155°   | 1224.9 | 1223.8 | 1222.7 | 1221.6 | 1220.5 | 1220.3 | 1220.1 | 1219.8 | 1219.6 | 1219.5 | 1219.7 |
| 157.5° | 1245.3 | 1244.0 | 1242.7 | 1241.4 | 1240.1 | 1240.3 | 1240.5 | 1240.8 | 1241.0 | 1241.1 | 1241.1 |
| 160°   | 1261.9 | 1260.6 | 1259.3 | 1258.0 | 1256.7 | 1256.9 | 1257.1 | 1257.4 | 1257.6 | 1257.7 | 1257.8 |
| 162.5° | 1277.5 | 1276.0 | 1274.5 | 1272.9 | 1271.4 | 1271.6 | 1271.8 | 1272.1 | 1272.3 | 1272.4 | 1272.7 |
| 165°   | 1291.1 | 1289.4 | 1287.7 | 1285.9 | 1284.2 | 1284.4 | 1284.6 | 1284.8 | 1285.0 | 1285.1 | 1285.4 |
| 167.5° | 1301.9 | 1300.2 | 1298.4 | 1296.7 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1294.9 | 1295.3 |
| 170°   | 1310.7 | 1309.0 | 1307.2 | 1305.5 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1303.7 | 1304.1 |
| 172.5° | 1316.6 | 1314.9 | 1313.1 | 1311.4 | 1309.6 | 1309.4 | 1309.2 | 1308.9 | 1308.7 | 1308.6 | 1309.1 |
| 175°   | 1320.6 | 1319.1 | 1317.6 | 1316.0 | 1314.5 | 1314.3 | 1314.1 | 1313.8 | 1313.6 | 1313.5 | 1314.0 |
| 177.5° | 1323.4 | 1321.7 | 1320.0 | 1318.2 | 1316.5 | 1316.3 | 1316.1 | 1315.8 | 1315.6 | 1315.5 | 1316.0 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

TEST NUMBER: P1030868

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**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 757.1 | 757.1 | 757.1 | 757.1 |
| 2.5°   | 740.9 | 743.1 | 750.5 | 759.3 |
| 5°     | 726.3 | 732.1 | 742.4 | 756.4 |
| 7.5°   | 710.1 | 718.9 | 733.6 | 751.2 |
| 10°    | 691.8 | 704.3 | 722.6 | 744.6 |
| 12.5°  | 672.0 | 688.1 | 711.6 | 734.3 |
| 15°    | 659.5 | 675.7 | 696.9 | 721.9 |
| 17.5°  | 635.3 | 654.4 | 676.4 | 711.6 |
| 20°    | 610.4 | 631.6 | 660.2 | 695.5 |
| 22.5°  | 591.3 | 614.0 | 641.2 | 678.6 |
| 25°    | 568.5 | 592.0 | 621.4 | 660.2 |
| 27.5°  | 544.3 | 567.8 | 600.8 | 641.9 |
| 30°    | 526.0 | 548.7 | 580.3 | 624.3 |
| 32.5°  | 504.0 | 526.0 | 559.0 | 605.2 |
| 35°    | 479.0 | 504.0 | 535.5 | 582.5 |
| 37.5°  | 460.0 | 482.7 | 515.7 | 560.5 |
| 40°    | 439.4 | 459.2 | 491.5 | 535.5 |
| 42.5°  | 417.4 | 439.4 | 467.3 | 511.3 |
| 45°    | 396.9 | 413.0 | 441.6 | 483.4 |
| 47.5°  | 374.9 | 393.2 | 415.2 | 447.5 |
| 50°    | 351.4 | 366.8 | 391.0 | 413.0 |
| 52.5°  | 328.7 | 341.1 | 361.7 | 378.5 |
| 55°    | 304.4 | 316.9 | 332.3 | 342.6 |
| 57.5°  | 281.7 | 290.5 | 300.8 | 307.4 |
| 60°    | 253.8 | 262.6 | 269.2 | 275.8 |
| 62.5°  | 228.9 | 235.5 | 239.2 | 242.8 |
| 65°    | 203.2 | 206.9 | 209.1 | 212.0 |
| 67.5°  | 175.3 | 179.0 | 179.7 | 184.1 |
| 70°    | 149.7 | 150.4 | 151.9 | 154.1 |
| 72.5°  | 125.4 | 126.9 | 126.2 | 127.6 |
| 75°    | 100.5 | 102.0 | 100.5 | 102.0 |
| 77.5°  | 76.3  | 77.8  | 77.8  | 80.0  |
| 80°    | 55.0  | 55.8  | 56.5  | 56.5  |
| 82.5°  | 35.9  | 38.1  | 36.7  | 37.4  |
| 85°    | 20.5  | 21.3  | 21.3  | 22.0  |
| 87.5°  | 9.5   | 10.3  | 9.5   | 11.0  |
| 90°    | 7.5   | 5.4   | 3.2   | 1.0   |
| 92.5°  | 18.6  | 19.9  | 21.2  | 22.5  |
| 95°    | 33.0  | 41.9  | 50.9  | 59.8  |
| 97.5°  | 90.4  | 96.5  | 102.6 | 108.7 |
| 100°   | 178.6 | 174.2 | 169.9 | 165.5 |
| 102.5° | 238.7 | 235.8 | 233.0 | 230.2 |
| 105°   | 299.1 | 296.7 | 294.3 | 291.9 |
| 107.5° | 363.4 | 361.4 | 359.5 | 357.5 |
| 110°   | 428.4 | 426.7 | 424.9 | 423.2 |



TEST NUMBER: P1030868

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 490.4  | 488.9  | 487.3  | 485.8  |
| 115°   | 551.5  | 550.2  | 548.9  | 547.6  |
| 117.5° | 612.8  | 611.3  | 609.8  | 608.3  |
| 120°   | 670.0  | 668.0  | 666.1  | 664.1  |
| 122.5° | 725.5  | 724.0  | 722.4  | 720.9  |
| 125°   | 777.1  | 775.4  | 773.6  | 771.9  |
| 127.5° | 828.0  | 826.3  | 824.5  | 822.8  |
| 130°   | 875.1  | 873.3  | 871.6  | 869.8  |
| 132.5° | 920.1  | 918.4  | 916.6  | 914.9  |
| 135°   | 964.8  | 963.5  | 962.2  | 960.9  |
| 137.5° | 1005.3 | 1003.6 | 1001.8 | 1000.1 |
| 140°   | 1043.2 | 1041.9 | 1040.6 | 1039.3 |
| 142.5° | 1079.4 | 1078.1 | 1076.8 | 1075.5 |
| 145°   | 1113.4 | 1111.9 | 1110.3 | 1108.8 |
| 147.5° | 1144.4 | 1143.3 | 1142.2 | 1141.1 |
| 150°   | 1172.5 | 1171.8 | 1171.2 | 1170.5 |
| 152.5° | 1197.7 | 1197.4 | 1197.2 | 1197.0 |
| 155°   | 1220.2 | 1220.6 | 1221.1 | 1221.5 |
| 157.5° | 1241.1 | 1241.1 | 1241.1 | 1241.1 |
| 160°   | 1258.0 | 1258.3 | 1258.5 | 1258.7 |
| 162.5° | 1273.4 | 1274.0 | 1274.7 | 1275.3 |
| 165°   | 1286.1 | 1286.8 | 1287.4 | 1288.1 |
| 167.5° | 1296.2 | 1297.1 | 1297.9 | 1298.8 |
| 170°   | 1305.0 | 1305.9 | 1306.8 | 1307.7 |
| 172.5° | 1310.2 | 1311.3 | 1312.4 | 1313.5 |
| 175°   | 1315.1 | 1316.2 | 1317.3 | 1318.4 |
| 177.5° | 1317.1 | 1318.2 | 1319.3 | 1320.4 |
| 180°   | 1318.4 | 1318.4 | 1318.4 | 1318.4 |

(END OF REPORT)