

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: P1010563

Luminaire Tested: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010563  
REPORT IS A COMBINATION OF REPORTS P989692 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K  
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

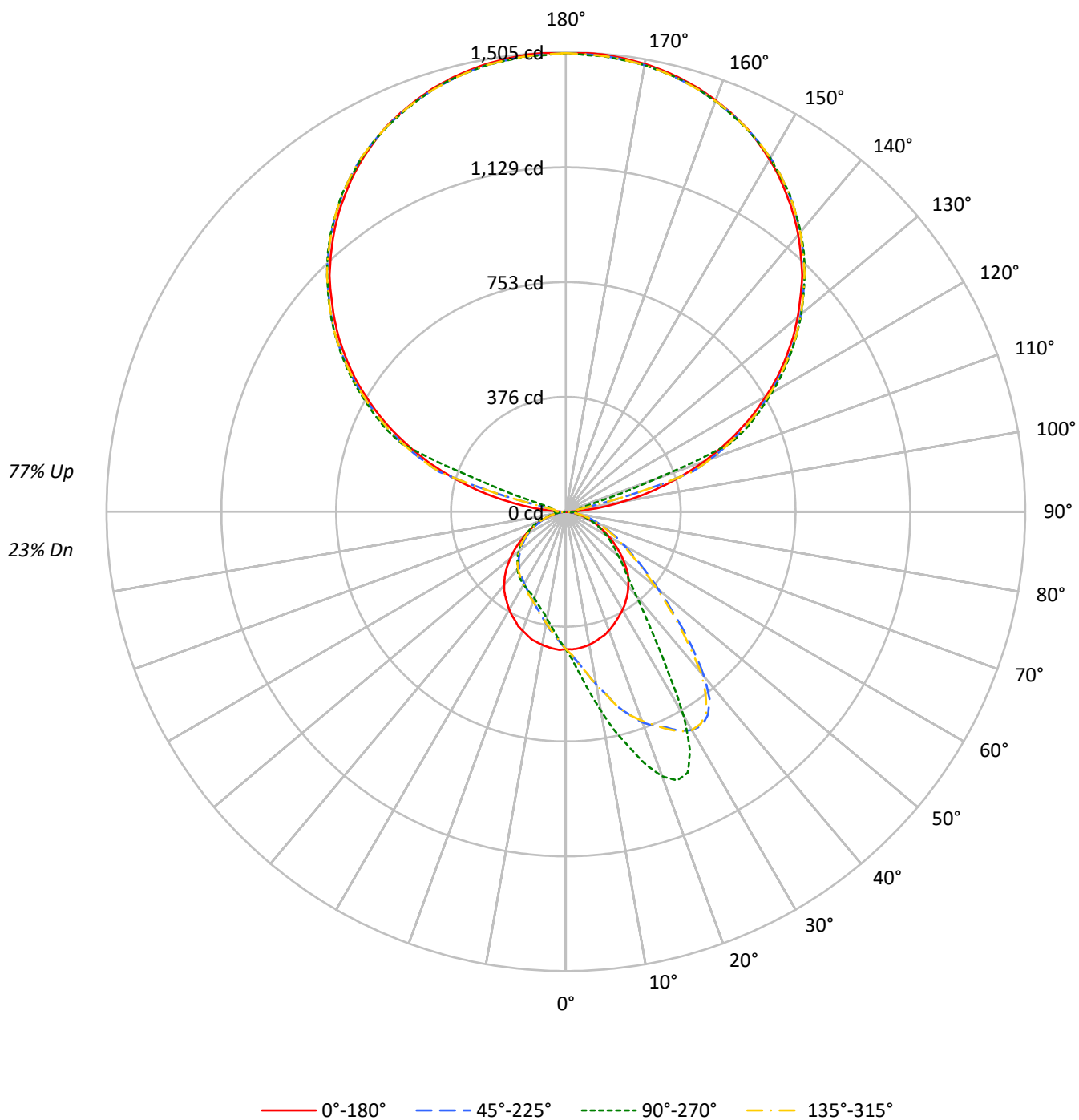
Lumens per Lamp: N/A  
Luminaire Lumens: 5942.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 48  
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: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**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   | 101 | 101 | 101 | 101 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 49 | 49 | 49 | 31 | 31 | 31 |    |    | 23 |
| 1   | 92  | 88  | 84  | 81  | 81 | 78 | 75 | 72 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 |    |    | 20 |
| 2   | 84  | 77  | 71  | 66  | 74 | 68 | 63 | 59 | 53 | 49 | 47 | 38 | 36 | 34 | 25 | 23 | 23 |    |    | 17 |
| 3   | 76  | 67  | 61  | 55  | 68 | 60 | 54 | 50 | 46 | 42 | 39 | 34 | 31 | 29 | 22 | 20 | 19 |    |    | 14 |
| 4   | 70  | 60  | 52  | 46  | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 20 | 18 | 17 |    |    | 12 |
| 5   | 64  | 53  | 45  | 40  | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 21 | 18 | 16 | 14 |    |    | 11 |
| 6   | 59  | 47  | 40  | 34  | 52 | 42 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 |    |    | 9  |
| 7   | 54  | 43  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 16 | 15 | 13 | 11 |    |    | 8  |
| 8   | 50  | 38  | 31  | 26  | 44 | 35 | 28 | 24 | 27 | 22 | 19 | 20 | 17 | 15 | 13 | 11 | 10 |    |    | 7  |
| 9   | 47  | 35  | 28  | 23  | 41 | 31 | 25 | 21 | 25 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9  |    |    | 7  |
| 10  | 43  | 32  | 25  | 20  | 38 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 11 | 10 | 8  |    |    | 6  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4843 | 4843 | 4843 | 4843 |
| 5°  | 4846 | 5580 | 4860 | 4164 |
| 10° | 4815 | 6753 | 4821 | 3637 |
| 15° | 4749 | 8009 | 4788 | 3273 |
| 20° | 4692 | 9220 | 4702 | 3013 |
| 25° | 4607 | 9453 | 4617 | 2876 |
| 30° | 4546 | 7809 | 4546 | 2787 |
| 35° | 4471 | 5223 | 4443 | 2708 |
| 40° | 4381 | 3770 | 4326 | 2587 |
| 45° | 4267 | 2987 | 4143 | 2437 |
| 50° | 3992 | 2537 | 3849 | 2290 |
| 55° | 3689 | 2229 | 3539 | 2125 |
| 60° | 3382 | 1941 | 3202 | 1952 |
| 65° | 3046 | 1662 | 2898 | 1722 |
| 70° | 2698 | 1379 | 2518 | 1451 |
| 75° | 2305 | 1039 | 2157 | 1119 |
| 80° | 1824 | 694  | 1683 | 736  |
| 85° | 1258 | 319  | 1009 | 290  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 7810 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.3   | 0.7       |
| 10°-20°   | 142.1  | 2.4       |
| 20°-30°   | 239.1  | 4.0       |
| 30°-40°   | 270.3  | 4.5       |
| 40°-50°   | 242.1  | 4.1       |
| 50°-60°   | 195.4  | 3.3       |
| 60°-70°   | 136.2  | 2.3       |
| 70°-80°   | 71.5   | 1.2       |
| 80°-90°   | 20.1   | 0.3       |
| 90°-100°  | 53.0   | 0.9       |
| 100°-110° | 256.2  | 4.3       |
| 110°-120° | 627.8  | 10.6      |
| 120°-130° | 797.0  | 13.4      |
| 130°-140° | 851.4  | 14.3      |
| 140°-150° | 796.2  | 13.4      |
| 150°-160° | 642.2  | 10.8      |
| 160°-170° | 414.4  | 7.0       |
| 170°-180° | 142.8  | 2.4       |
| 0°-30°    | 425.5  | 7.2       |
| 0°-40°    | 695.8  | 11.7      |
| 0°-60°    | 1133.2 | 19.1      |
| 0°-90°    | 1361.0 | 22.9      |
| 90°-120°  | 937.0  | 15.8      |
| 90°-150°  | 3381.6 | 56.9      |
| 90°-180°  | 4581.0 | 77.1      |
| 0°-180°   | 5942.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 450  | 450  | 450  | 450  | 450  |      |
| 5°   | 450  | 534  | 451  | 399  | 450  | 43   |
| 15°  | 429  | 796  | 432  | 325  | 429  | 121  |
| 25°  | 392  | 944  | 393  | 287  | 392  | 181  |
| 35°  | 346  | 509  | 344  | 264  | 346  | 217  |
| 45°  | 287  | 275  | 279  | 224  | 287  | 220  |
| 55°  | 204  | 187  | 195  | 178  | 204  | 182  |
| 65°  | 126  | 121  | 120  | 126  | 126  | 125  |
| 75°  | 61   | 62   | 57   | 67   | 61   | 65   |
| 85°  | 13   | 14   | 10   | 13   | 13   | 15   |
| 90°  | 1    | 34   | 1    | 34   | 1    | 5    |
| 95°  | 68   | 42   | 68   | 42   | 68   | 81   |
| 105° | 333  | 49   | 333  | 49   | 333  | 353  |
| 115° | 624  | 656  | 624  | 656  | 624  | 616  |
| 125° | 880  | 898  | 880  | 898  | 880  | 786  |
| 135° | 1095 | 1106 | 1095 | 1106 | 1095 | 843  |
| 145° | 1264 | 1276 | 1264 | 1276 | 1264 | 791  |
| 155° | 1392 | 1390 | 1392 | 1390 | 1392 | 641  |
| 165° | 1468 | 1465 | 1468 | 1465 | 1468 | 415  |
| 175° | 1503 | 1497 | 1503 | 1497 | 1503 | 143  |
| 180° | 1503 | 1503 | 1503 | 1503 | 1503 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |
| 2.5°   | 451.3 | 454.7 | 456.5 | 459.1 | 461.7 | 465.6 | 466.9 | 469.1 | 468.3 | 470.0 | 470.9 |
| 5°     | 449.5 | 455.6 | 460.8 | 467.4 | 473.5 | 477.8 | 482.2 | 489.2 | 494.4 | 495.3 | 499.2 |
| 7.5°   | 446.5 | 455.2 | 464.3 | 473.5 | 485.3 | 492.2 | 500.1 | 509.7 | 517.5 | 530.2 | 535.0 |
| 10°    | 442.5 | 454.7 | 467.8 | 480.5 | 496.6 | 507.5 | 517.1 | 533.2 | 549.3 | 562.4 | 574.6 |
| 12.5°  | 436.4 | 451.7 | 468.7 | 487.4 | 508.4 | 521.0 | 534.1 | 555.5 | 579.9 | 599.9 | 613.0 |
| 15°    | 429.0 | 448.2 | 470.0 | 490.1 | 513.2 | 536.7 | 550.7 | 574.6 | 609.5 | 628.3 | 661.8 |
| 17.5°  | 422.9 | 442.5 | 464.3 | 495.7 | 527.1 | 550.7 | 560.7 | 604.7 | 628.7 | 660.1 | 698.0 |
| 20°    | 413.3 | 438.2 | 466.1 | 497.5 | 538.0 | 552.4 | 572.9 | 617.4 | 647.0 | 688.0 | 734.6 |
| 22.5°  | 403.3 | 429.9 | 463.5 | 496.2 | 541.5 | 556.8 | 584.7 | 620.0 | 667.1 | 707.6 | 759.1 |
| 25°    | 392.4 | 421.2 | 455.2 | 494.0 | 538.4 | 560.7 | 586.8 | 630.4 | 681.5 | 732.5 | 780.0 |
| 27.5°  | 381.5 | 412.9 | 448.2 | 487.0 | 530.2 | 556.3 | 582.5 | 627.8 | 693.2 | 748.6 | 809.2 |
| 30°    | 371.0 | 402.4 | 437.7 | 477.4 | 522.8 | 548.0 | 572.9 | 629.6 | 702.4 | 764.7 | 825.8 |
| 32.5°  | 359.7 | 392.0 | 429.0 | 462.2 | 507.9 | 535.0 | 562.9 | 629.6 | 708.0 | 774.3 | 830.1 |
| 35°    | 346.2 | 379.3 | 411.1 | 444.3 | 489.6 | 519.7 | 551.1 | 625.2 | 713.3 | 777.4 | 811.8 |
| 37.5°  | 333.1 | 362.3 | 389.8 | 422.0 | 469.6 | 501.8 | 538.0 | 620.0 | 710.7 | 764.3 | 773.9 |
| 40°    | 318.3 | 347.5 | 369.7 | 399.8 | 449.9 | 487.4 | 524.1 | 613.0 | 699.3 | 733.3 | 705.4 |
| 42.5°  | 303.9 | 327.0 | 346.2 | 375.4 | 429.9 | 466.5 | 506.2 | 600.4 | 677.1 | 684.1 | 621.3 |
| 45°    | 287.3 | 303.9 | 320.9 | 354.0 | 408.1 | 445.6 | 489.6 | 582.0 | 641.3 | 621.3 | 541.9 |
| 47.5°  | 266.0 | 280.8 | 299.5 | 330.0 | 385.0 | 423.8 | 465.6 | 558.5 | 589.5 | 547.6 | 460.8 |
| 50°    | 245.5 | 258.1 | 275.5 | 305.2 | 360.6 | 398.5 | 443.0 | 521.4 | 536.7 | 470.9 | 397.2 |
| 52.5°  | 225.0 | 234.6 | 251.6 | 281.2 | 336.6 | 373.2 | 413.8 | 483.5 | 474.8 | 404.2 | 338.8 |
| 55°    | 203.6 | 211.9 | 228.0 | 257.2 | 308.7 | 343.6 | 382.4 | 436.9 | 414.2 | 347.0 | 294.7 |
| 57.5°  | 182.7 | 191.4 | 208.0 | 232.4 | 280.8 | 314.8 | 345.7 | 388.5 | 354.5 | 300.8 | 254.6 |
| 60°    | 163.9 | 171.3 | 184.0 | 208.0 | 252.0 | 279.5 | 307.8 | 337.0 | 308.7 | 256.8 | 221.5 |
| 62.5°  | 144.3 | 151.3 | 163.1 | 184.9 | 222.8 | 247.2 | 269.9 | 293.9 | 262.5 | 224.5 | 193.1 |
| 65°    | 126.0 | 131.7 | 142.6 | 162.6 | 193.6 | 213.6 | 231.9 | 248.5 | 223.2 | 188.3 | 164.8 |
| 67.5°  | 109.4 | 114.2 | 123.4 | 141.3 | 167.4 | 181.8 | 196.6 | 210.6 | 189.2 | 161.3 | 141.3 |
| 70°    | 91.6  | 95.5  | 103.8 | 116.8 | 137.8 | 152.6 | 163.5 | 174.0 | 154.8 | 132.5 | 119.0 |
| 72.5°  | 75.9  | 79.8  | 85.0  | 98.5  | 112.9 | 122.1 | 133.8 | 139.5 | 128.6 | 110.3 | 96.8  |
| 75°    | 60.6  | 63.7  | 68.5  | 77.2  | 90.7  | 96.8  | 104.2 | 108.6 | 98.5  | 86.3  | 78.0  |
| 77.5°  | 47.5  | 48.8  | 52.3  | 58.4  | 67.6  | 74.6  | 80.2  | 82.8  | 75.9  | 68.0  | 61.0  |
| 80°    | 33.6  | 35.3  | 37.9  | 43.2  | 50.1  | 52.3  | 55.8  | 58.9  | 54.5  | 47.5  | 43.2  |
| 82.5°  | 22.2  | 24.4  | 25.7  | 27.9  | 32.3  | 34.9  | 35.8  | 38.4  | 34.4  | 31.8  | 30.1  |
| 85°    | 13.1  | 14.0  | 14.4  | 15.7  | 17.9  | 19.2  | 20.5  | 20.9  | 20.1  | 19.6  | 17.9  |
| 87.5°  | 6.5   | 6.5   | 6.5   | 7.4   | 7.8   | 8.7   | 9.2   | 9.2   | 9.2   | 8.7   | 8.3   |
| 90°    | 1.1   | 3.6   | 6.1   | 8.6   | 11.1  | 12.3  | 13.9  | 17.1  | 20.4  | 23.6  | 26.8  |
| 92.5°  | 25.7  | 24.2  | 22.7  | 21.2  | 19.7  | 19.0  | 20.1  | 22.3  | 24.6  | 26.8  | 29.0  |
| 95°    | 68.1  | 57.9  | 47.7  | 37.6  | 27.4  | 22.3  | 23.7  | 26.4  | 29.1  | 31.9  | 34.6  |
| 97.5°  | 123.9 | 117.0 | 110.0 | 103.1 | 96.2  | 92.7  | 86.4  | 73.7  | 61.0  | 48.4  | 35.7  |
| 100°   | 188.7 | 193.7 | 198.6 | 203.6 | 208.5 | 211.0 | 191.6 | 152.9 | 114.2 | 75.5  | 36.8  |
| 102.5° | 262.4 | 265.6 | 268.8 | 272.1 | 275.3 | 276.9 | 255.3 | 212.1 | 169.0 | 125.8 | 82.6  |
| 105°   | 332.7 | 335.4 | 338.2 | 340.9 | 343.6 | 345.0 | 333.8 | 311.5 | 289.2 | 266.8 | 244.5 |
| 107.5° | 407.5 | 409.7 | 411.9 | 414.2 | 416.4 | 417.5 | 419.4 | 423.1 | 426.8 | 430.6 | 434.3 |
| 110°   | 482.3 | 484.3 | 486.3 | 488.2 | 490.2 | 491.2 | 492.6 | 495.3 | 498.0 | 500.8 | 503.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 553.7  | 555.4  | 557.2  | 558.9  | 560.6  | 561.5  | 562.9  | 565.6  | 568.3  | 571.1  | 573.8  |
| 115°   | 624.1  | 625.6  | 627.1  | 628.6  | 630.1  | 630.8  | 631.9  | 634.1  | 636.4  | 638.6  | 640.8  |
| 117.5° | 693.3  | 695.0  | 696.8  | 698.5  | 700.2  | 701.1  | 701.7  | 703.0  | 704.2  | 705.5  | 706.7  |
| 120°   | 756.9  | 759.1  | 761.4  | 763.6  | 765.9  | 767.0  | 767.4  | 768.1  | 768.8  | 769.6  | 770.3  |
| 122.5° | 821.7  | 823.4  | 825.2  | 826.9  | 828.6  | 829.5  | 830.0  | 831.0  | 831.9  | 832.9  | 833.9  |
| 125°   | 879.7  | 881.7  | 883.7  | 885.6  | 887.6  | 888.6  | 889.1  | 890.1  | 891.1  | 892.1  | 893.1  |
| 127.5° | 937.8  | 939.8  | 941.8  | 943.7  | 945.7  | 946.7  | 947.3  | 948.6  | 949.8  | 951.1  | 952.3  |
| 130°   | 991.4  | 993.4  | 995.4  | 997.3  | 999.3  | 1000.3 | 1000.8 | 1001.8 | 1002.8 | 1003.8 | 1004.8 |
| 132.5° | 1042.7 | 1044.7 | 1046.7 | 1048.6 | 1050.6 | 1051.6 | 1052.0 | 1052.7 | 1053.5 | 1054.2 | 1055.0 |
| 135°   | 1095.2 | 1096.7 | 1098.2 | 1099.7 | 1101.2 | 1101.9 | 1102.4 | 1103.4 | 1104.3 | 1105.3 | 1106.3 |
| 137.5° | 1139.8 | 1141.8 | 1143.8 | 1145.8 | 1147.8 | 1148.8 | 1149.0 | 1149.5 | 1150.0 | 1150.5 | 1151.0 |
| 140°   | 1184.5 | 1186.0 | 1187.5 | 1189.0 | 1190.5 | 1191.2 | 1191.6 | 1192.3 | 1193.0 | 1193.8 | 1194.5 |
| 142.5° | 1225.8 | 1227.3 | 1228.8 | 1230.3 | 1231.8 | 1232.5 | 1232.9 | 1233.6 | 1234.3 | 1235.1 | 1235.8 |
| 145°   | 1263.8 | 1265.5 | 1267.3 | 1269.0 | 1270.7 | 1271.6 | 1271.8 | 1272.3 | 1272.8 | 1273.3 | 1273.8 |
| 147.5° | 1300.6 | 1301.8 | 1303.1 | 1304.3 | 1305.6 | 1306.2 | 1306.4 | 1306.9 | 1307.4 | 1307.9 | 1308.4 |
| 150°   | 1334.1 | 1334.8 | 1335.6 | 1336.3 | 1337.0 | 1337.4 | 1337.7 | 1338.2 | 1338.7 | 1339.2 | 1339.7 |
| 152.5° | 1364.2 | 1364.4 | 1364.7 | 1364.9 | 1365.2 | 1365.3 | 1365.4 | 1365.7 | 1366.0 | 1366.2 | 1366.5 |
| 155°   | 1392.1 | 1391.6 | 1391.1 | 1390.6 | 1390.1 | 1389.9 | 1390.0 | 1390.3 | 1390.5 | 1390.8 | 1391.0 |
| 157.5° | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.4 | 1414.1 | 1413.9 | 1413.6 | 1413.4 |
| 160°   | 1434.6 | 1434.3 | 1434.1 | 1433.8 | 1433.5 | 1433.4 | 1433.3 | 1433.0 | 1432.8 | 1432.5 | 1432.3 |
| 162.5° | 1453.5 | 1452.8 | 1452.0 | 1451.3 | 1450.6 | 1450.2 | 1450.1 | 1449.8 | 1449.6 | 1449.3 | 1449.1 |
| 165°   | 1468.1 | 1467.3 | 1466.6 | 1465.8 | 1465.1 | 1464.7 | 1464.6 | 1464.3 | 1464.1 | 1463.8 | 1463.6 |
| 167.5° | 1480.3 | 1479.3 | 1478.3 | 1477.4 | 1476.4 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 |
| 170°   | 1490.4 | 1489.4 | 1488.4 | 1487.4 | 1486.4 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 |
| 172.5° | 1497.1 | 1495.9 | 1494.6 | 1493.4 | 1492.1 | 1491.5 | 1491.6 | 1491.9 | 1492.1 | 1492.4 | 1492.6 |
| 175°   | 1502.7 | 1501.5 | 1500.2 | 1499.0 | 1497.7 | 1497.1 | 1497.2 | 1497.5 | 1497.7 | 1498.0 | 1498.2 |
| 177.5° | 1504.9 | 1503.7 | 1502.4 | 1501.2 | 1499.9 | 1499.3 | 1499.4 | 1499.7 | 1499.9 | 1500.2 | 1500.4 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |
| 2.5°   | 473.9 | 474.8 | 477.8 | 480.0 | 484.4 | 484.0 | 484.0 | 483.5 | 482.2 | 484.4 | 485.7 |
| 5°     | 507.1 | 514.5 | 515.3 | 524.9 | 525.4 | 529.3 | 531.9 | 529.7 | 535.0 | 534.5 | 530.6 |
| 7.5°   | 548.0 | 558.1 | 562.9 | 572.0 | 582.5 | 579.9 | 589.9 | 591.6 | 590.8 | 595.1 | 598.2 |
| 10°    | 592.9 | 610.4 | 622.6 | 639.6 | 644.0 | 646.6 | 653.1 | 658.8 | 670.1 | 661.4 | 667.1 |
| 12.5°  | 644.4 | 657.0 | 673.2 | 700.2 | 713.7 | 722.4 | 725.5 | 729.4 | 737.3 | 732.5 | 732.9 |
| 15°    | 687.6 | 704.6 | 732.0 | 765.6 | 769.5 | 780.4 | 777.8 | 801.4 | 812.7 | 795.7 | 805.3 |
| 17.5°  | 732.5 | 755.1 | 787.8 | 817.0 | 833.6 | 841.0 | 848.0 | 870.7 | 869.8 | 867.2 | 869.4 |
| 20°    | 761.2 | 798.3 | 838.8 | 877.7 | 882.4 | 888.1 | 906.9 | 916.5 | 914.7 | 922.1 | 926.9 |
| 22.5°  | 801.8 | 841.0 | 884.2 | 909.9 | 920.8 | 927.4 | 942.2 | 948.3 | 950.9 | 952.6 | 949.6 |
| 25°    | 835.8 | 877.7 | 909.5 | 932.1 | 938.7 | 942.2 | 947.0 | 948.7 | 947.4 | 944.4 | 947.0 |
| 27.5°  | 858.9 | 892.5 | 914.3 | 924.7 | 921.2 | 915.6 | 906.4 | 900.3 | 886.8 | 880.3 | 888.1 |
| 30°    | 868.5 | 883.3 | 889.9 | 872.4 | 855.0 | 841.0 | 823.6 | 791.3 | 766.0 | 773.4 | 763.4 |
| 32.5°  | 853.2 | 843.6 | 812.3 | 767.3 | 753.8 | 731.2 | 681.9 | 644.0 | 645.3 | 625.2 | 633.5 |
| 35°    | 808.3 | 764.7 | 705.4 | 637.4 | 619.5 | 607.3 | 553.3 | 545.0 | 527.5 | 508.8 | 514.0 |
| 37.5°  | 729.0 | 665.3 | 593.4 | 543.2 | 516.6 | 490.1 | 459.5 | 441.2 | 430.8 | 422.9 | 429.0 |
| 40°    | 632.2 | 554.6 | 495.3 | 450.4 | 427.7 | 410.7 | 389.8 | 371.5 | 359.7 | 358.4 | 360.6 |
| 42.5°  | 537.1 | 471.7 | 417.2 | 374.5 | 367.1 | 347.0 | 333.5 | 319.1 | 315.7 | 310.0 | 313.0 |
| 45°    | 454.7 | 401.5 | 356.6 | 321.8 | 313.0 | 307.8 | 291.2 | 282.1 | 278.2 | 274.7 | 279.9 |
| 47.5°  | 395.0 | 339.2 | 306.5 | 285.6 | 276.9 | 268.1 | 259.0 | 252.9 | 249.8 | 250.3 | 249.8 |
| 50°    | 337.5 | 296.5 | 267.7 | 251.6 | 246.3 | 240.2 | 232.8 | 228.9 | 227.6 | 223.7 | 226.7 |
| 52.5°  | 290.4 | 260.7 | 240.7 | 225.4 | 221.5 | 217.1 | 211.0 | 208.8 | 205.8 | 204.9 | 204.9 |
| 55°    | 252.4 | 229.3 | 213.2 | 203.2 | 198.4 | 194.9 | 191.4 | 188.8 | 186.6 | 186.6 | 186.6 |
| 57.5°  | 222.8 | 202.7 | 191.0 | 182.2 | 180.5 | 177.0 | 173.1 | 173.1 | 170.0 | 169.6 | 170.9 |
| 60°    | 197.5 | 179.6 | 170.5 | 163.1 | 160.4 | 159.6 | 155.6 | 155.6 | 154.8 | 152.6 | 154.3 |
| 62.5°  | 171.8 | 158.7 | 150.9 | 145.2 | 142.6 | 142.6 | 139.5 | 137.3 | 137.3 | 137.8 | 136.9 |
| 65°    | 148.2 | 138.6 | 131.7 | 127.3 | 126.0 | 124.3 | 123.8 | 122.1 | 120.8 | 121.2 | 120.8 |
| 67.5°  | 127.3 | 119.9 | 115.1 | 111.6 | 109.4 | 108.6 | 107.3 | 107.3 | 106.4 | 106.8 | 104.6 |
| 70°    | 108.6 | 101.1 | 97.2  | 93.7  | 92.9  | 92.9  | 91.1  | 91.6  | 90.7  | 92.0  | 91.1  |
| 72.5°  | 89.4  | 83.7  | 80.7  | 79.4  | 78.5  | 78.0  | 77.2  | 76.3  | 75.9  | 76.7  | 76.3  |
| 75°    | 72.4  | 67.6  | 65.4  | 64.5  | 63.7  | 63.7  | 63.2  | 62.8  | 62.3  | 62.3  | 62.3  |
| 77.5°  | 56.2  | 53.2  | 50.6  | 51.4  | 50.1  | 50.6  | 49.3  | 49.3  | 49.7  | 49.3  | 49.3  |
| 80°    | 41.4  | 39.2  | 39.2  | 38.4  | 36.6  | 37.5  | 37.5  | 36.2  | 35.8  | 36.6  | 35.3  |
| 82.5°  | 27.5  | 27.0  | 26.2  | 25.7  | 24.9  | 25.3  | 24.9  | 24.4  | 24.0  | 24.9  | 24.0  |
| 85°    | 16.1  | 16.1  | 15.7  | 14.8  | 15.7  | 15.3  | 14.8  | 14.8  | 14.4  | 14.4  | 14.4  |
| 87.5°  | 8.3   | 7.4   | 7.4   | 7.0   | 7.4   | 6.5   | 7.0   | 6.5   | 6.1   | 6.5   | 6.1   |
| 90°    | 27.8  | 28.8  | 29.8  | 30.8  | 31.3  | 31.5  | 32.0  | 32.5  | 33.0  | 33.5  | 33.0  |
| 92.5°  | 30.7  | 32.5  | 34.2  | 35.9  | 36.8  | 36.9  | 37.2  | 37.5  | 37.7  | 38.0  | 37.7  |
| 95°    | 36.3  | 38.1  | 39.8  | 41.5  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  |
| 97.5°  | 37.7  | 39.7  | 41.7  | 43.7  | 44.7  | 44.8  | 45.1  | 45.3  | 45.6  | 45.8  | 45.6  |
| 100°   | 38.8  | 40.8  | 42.8  | 44.8  | 45.8  | 45.9  | 46.2  | 46.4  | 46.7  | 46.9  | 46.7  |
| 102.5° | 74.4  | 66.2  | 58.1  | 49.9  | 45.8  | 46.0  | 46.5  | 47.0  | 47.5  | 48.0  | 47.5  |
| 105°   | 200.6 | 156.7 | 112.8 | 68.9  | 46.9  | 47.1  | 47.6  | 48.1  | 48.6  | 49.1  | 48.6  |
| 107.5° | 396.1 | 357.9 | 319.7 | 281.5 | 262.4 | 246.1 | 213.6 | 181.1 | 148.6 | 116.1 | 148.6 |
| 110°   | 495.3 | 487.1 | 479.0 | 470.8 | 466.7 | 449.0 | 413.5 | 378.0 | 342.5 | 307.0 | 342.5 |



TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 576.0  | 578.3  | 580.5  | 582.8  | 583.9  | 583.6  | 583.1  | 582.6  | 582.1  | 581.6  | 582.1  |
| 115°   | 643.3  | 645.8  | 648.3  | 650.8  | 652.0  | 652.5  | 653.5  | 654.4  | 655.4  | 656.4  | 655.4  |
| 117.5° | 708.7  | 710.7  | 712.6  | 714.6  | 715.6  | 715.7  | 716.0  | 716.2  | 716.5  | 716.7  | 716.5  |
| 120°   | 772.3  | 774.3  | 776.2  | 778.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  |
| 122.5° | 835.1  | 836.4  | 837.6  | 838.9  | 839.5  | 839.6  | 839.9  | 840.1  | 840.4  | 840.6  | 840.4  |
| 125°   | 893.6  | 894.1  | 894.6  | 895.1  | 895.3  | 895.6  | 896.1  | 896.6  | 897.1  | 897.6  | 897.1  |
| 127.5° | 953.0  | 953.8  | 954.5  | 955.2  | 955.6  | 955.4  | 954.9  | 954.4  | 953.9  | 953.4  | 953.9  |
| 130°   | 1005.8 | 1006.8 | 1007.7 | 1008.7 | 1009.2 | 1009.0 | 1008.5 | 1008.0 | 1007.5 | 1007.0 | 1007.5 |
| 132.5° | 1056.0 | 1057.0 | 1058.0 | 1059.0 | 1059.5 | 1059.1 | 1058.4 | 1057.6 | 1056.9 | 1056.1 | 1056.9 |
| 135°   | 1107.1 | 1107.8 | 1108.6 | 1109.3 | 1109.7 | 1109.3 | 1108.6 | 1107.8 | 1107.1 | 1106.3 | 1107.1 |
| 137.5° | 1152.2 | 1153.5 | 1154.7 | 1156.0 | 1156.6 | 1156.3 | 1155.8 | 1155.3 | 1154.8 | 1154.3 | 1154.8 |
| 140°   | 1195.5 | 1196.5 | 1197.5 | 1198.5 | 1199.0 | 1198.8 | 1198.3 | 1197.8 | 1197.3 | 1196.8 | 1197.3 |
| 142.5° | 1236.6 | 1237.3 | 1238.1 | 1238.8 | 1239.2 | 1238.8 | 1238.1 | 1237.3 | 1236.6 | 1235.8 | 1236.6 |
| 145°   | 1274.3 | 1274.8 | 1275.3 | 1275.8 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 |
| 147.5° | 1308.9 | 1309.4 | 1309.9 | 1310.4 | 1310.6 | 1310.0 | 1308.8 | 1307.5 | 1306.3 | 1305.1 | 1306.3 |
| 150°   | 1340.2 | 1340.7 | 1341.2 | 1341.7 | 1341.9 | 1341.5 | 1340.8 | 1340.1 | 1339.3 | 1338.6 | 1339.3 |
| 152.5° | 1367.5 | 1368.5 | 1369.4 | 1370.4 | 1370.9 | 1370.3 | 1369.0 | 1367.8 | 1366.5 | 1365.3 | 1366.5 |
| 155°   | 1392.2 | 1393.5 | 1394.7 | 1396.0 | 1396.6 | 1395.9 | 1394.4 | 1392.9 | 1391.4 | 1389.9 | 1391.4 |
| 157.5° | 1414.9 | 1416.4 | 1417.9 | 1419.4 | 1420.1 | 1419.1 | 1417.1 | 1415.1 | 1413.1 | 1411.1 | 1413.1 |
| 160°   | 1433.8 | 1435.3 | 1436.8 | 1438.3 | 1439.0 | 1438.1 | 1436.4 | 1434.7 | 1432.9 | 1431.2 | 1432.9 |
| 162.5° | 1450.8 | 1452.6 | 1454.3 | 1456.0 | 1456.9 | 1456.2 | 1454.7 | 1453.2 | 1451.7 | 1450.2 | 1451.7 |
| 165°   | 1465.6 | 1467.6 | 1469.5 | 1471.5 | 1472.5 | 1471.6 | 1469.9 | 1468.2 | 1466.4 | 1464.7 | 1466.4 |
| 167.5° | 1477.9 | 1479.9 | 1481.8 | 1483.8 | 1484.8 | 1483.8 | 1481.8 | 1479.9 | 1477.9 | 1475.9 | 1477.9 |
| 170°   | 1487.9 | 1489.9 | 1491.8 | 1493.8 | 1494.8 | 1493.8 | 1491.8 | 1489.9 | 1487.9 | 1485.9 | 1487.9 |
| 172.5° | 1494.6 | 1496.6 | 1498.5 | 1500.5 | 1501.5 | 1500.4 | 1498.2 | 1495.9 | 1493.7 | 1491.5 | 1493.7 |
| 175°   | 1499.9 | 1501.7 | 1503.4 | 1505.1 | 1506.0 | 1505.0 | 1503.0 | 1501.1 | 1499.1 | 1497.1 | 1499.1 |
| 177.5° | 1502.4 | 1504.4 | 1506.4 | 1508.4 | 1509.4 | 1508.2 | 1505.7 | 1503.2 | 1500.7 | 1498.2 | 1500.7 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 449.9 | 449.9 | 449.9 | 449.9  | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |
| 2.5°   | 482.2 | 483.5 | 480.0 | 479.2  | 479.2 | 480.9 | 479.6 | 467.8 | 470.0 | 467.4 | 466.5 |
| 5°     | 535.4 | 532.8 | 529.3 | 527.5  | 525.4 | 519.3 | 518.8 | 505.3 | 502.7 | 494.0 | 490.1 |
| 7.5°   | 593.8 | 591.6 | 581.2 | 579.9  | 579.0 | 573.3 | 558.9 | 544.6 | 534.1 | 524.1 | 514.5 |
| 10°    | 660.5 | 654.0 | 649.2 | 639.6  | 634.8 | 627.0 | 608.2 | 594.7 | 576.8 | 561.6 | 541.5 |
| 12.5°  | 740.7 | 733.3 | 717.2 | 710.2  | 704.1 | 682.3 | 663.6 | 648.3 | 613.4 | 603.0 | 578.1 |
| 15°    | 799.6 | 783.9 | 782.2 | 766.9  | 766.0 | 742.1 | 706.3 | 689.7 | 662.7 | 624.3 | 598.6 |
| 17.5°  | 863.3 | 849.3 | 838.4 | 820.1  | 817.5 | 794.8 | 768.7 | 728.1 | 698.5 | 661.8 | 629.1 |
| 20°    | 909.9 | 902.5 | 883.8 | 876.3  | 861.1 | 841.9 | 814.9 | 764.7 | 728.5 | 691.9 | 651.8 |
| 22.5°  | 947.0 | 939.6 | 924.7 | 914.7  | 906.0 | 881.1 | 848.9 | 806.1 | 756.4 | 708.5 | 667.1 |
| 25°    | 946.5 | 944.4 | 938.3 | 933.5  | 926.9 | 908.6 | 881.6 | 840.6 | 785.2 | 732.5 | 674.9 |
| 27.5°  | 892.9 | 899.0 | 909.5 | 914.7  | 913.4 | 910.8 | 895.5 | 861.1 | 811.4 | 748.6 | 684.1 |
| 30°    | 781.3 | 803.5 | 823.2 | 849.3  | 857.2 | 876.3 | 885.1 | 865.4 | 825.8 | 767.3 | 695.8 |
| 32.5°  | 647.9 | 680.1 | 722.9 | 737.3  | 762.1 | 799.2 | 840.6 | 848.0 | 823.2 | 778.2 | 703.3 |
| 35°    | 531.5 | 558.1 | 591.2 | 613.9  | 636.1 | 696.3 | 748.6 | 793.9 | 802.2 | 772.6 | 701.5 |
| 37.5°  | 439.9 | 458.7 | 487.9 | 507.1  | 527.5 | 579.0 | 652.2 | 711.1 | 752.5 | 753.4 | 696.7 |
| 40°    | 373.6 | 381.9 | 407.2 | 421.2  | 440.8 | 485.3 | 550.7 | 627.4 | 688.0 | 715.9 | 684.1 |
| 42.5°  | 316.5 | 327.4 | 348.4 | 358.8  | 371.5 | 410.3 | 453.4 | 526.2 | 601.2 | 661.0 | 660.5 |
| 45°    | 282.5 | 290.4 | 300.0 | 308.7  | 323.1 | 346.2 | 395.4 | 449.9 | 521.9 | 589.5 | 616.1 |
| 47.5°  | 252.4 | 259.9 | 269.4 | 272.1  | 281.7 | 303.4 | 333.5 | 381.1 | 448.2 | 515.3 | 565.5 |
| 50°    | 227.2 | 233.3 | 239.8 | 244.6  | 249.0 | 266.8 | 289.5 | 329.6 | 383.2 | 448.2 | 510.5 |
| 52.5°  | 207.5 | 211.9 | 217.6 | 220.2  | 224.1 | 237.2 | 254.6 | 284.3 | 328.3 | 387.6 | 448.2 |
| 55°    | 189.2 | 192.3 | 195.8 | 200.1  | 201.9 | 211.5 | 225.0 | 250.3 | 283.0 | 336.1 | 393.7 |
| 57.5°  | 172.2 | 173.5 | 175.7 | 178.3  | 180.5 | 188.8 | 200.6 | 217.6 | 246.3 | 287.3 | 341.8 |
| 60°    | 153.0 | 156.5 | 157.8 | 160.4  | 161.8 | 168.3 | 177.4 | 191.8 | 214.1 | 249.4 | 290.4 |
| 62.5°  | 136.9 | 139.1 | 141.3 | 142.6  | 145.6 | 147.8 | 155.2 | 168.3 | 186.6 | 212.8 | 249.8 |
| 65°    | 122.5 | 123.4 | 124.7 | 126.0  | 126.9 | 129.5 | 136.5 | 145.2 | 159.1 | 182.2 | 211.0 |
| 67.5°  | 105.9 | 106.8 | 108.6 | 109.0  | 109.9 | 113.4 | 117.3 | 124.7 | 136.5 | 153.9 | 177.4 |
| 70°    | 89.8  | 91.1  | 92.0  | 92.9   | 94.2  | 95.5  | 99.8  | 105.9 | 115.1 | 127.3 | 145.6 |
| 72.5°  | 75.9  | 77.2  | 77.2  | 78.0   | 77.6  | 79.4  | 83.7  | 88.1  | 94.2  | 104.2 | 120.3 |
| 75°    | 61.9  | 61.9  | 62.8  | 63.2   | 63.7  | 65.4  | 67.1  | 70.6  | 75.4  | 83.3  | 93.3  |
| 77.5°  | 48.8  | 48.4  | 49.3  | 49.3   | 49.3  | 50.6  | 52.3  | 54.1  | 57.1  | 62.8  | 70.6  |
| 80°    | 35.8  | 35.8  | 36.6  | 37.1   | 36.2  | 36.6  | 37.5  | 39.2  | 41.4  | 45.3  | 49.7  |
| 82.5°  | 23.5  | 25.3  | 24.9  | 25.3   | 24.9  | 25.7  | 26.2  | 26.6  | 27.5  | 29.2  | 32.3  |
| 85°    | 14.4  | 14.4  | 14.4  | 14.8   | 14.4  | 14.8  | 14.8  | 14.8  | 15.3  | 16.1  | 17.4  |
| 87.5°  | 6.1   | 6.1   | 6.1   | 6.5    | 6.1   | 6.1   | 6.5   | 6.1   | 6.5   | 6.5   | 7.0   |
| 90°    | 32.5  | 32.0  | 31.5  | 31.3   | 30.8  | 29.8  | 28.8  | 27.8  | 26.8  | 23.6  | 20.4  |
| 92.5°  | 37.5  | 37.2  | 36.9  | 36.8   | 35.9  | 34.2  | 32.5  | 30.7  | 29.0  | 26.8  | 24.6  |
| 95°    | 42.4  | 42.4  | 42.4  | 42.4   | 41.5  | 39.8  | 38.1  | 36.3  | 34.6  | 31.9  | 29.1  |
| 97.5°  | 45.3  | 45.1  | 44.8  | 44.7   | 43.7  | 41.7  | 39.7  | 37.7  | 35.7  | 48.4  | 61.0  |
| 100°   | 46.4  | 46.2  | 45.9  | 45.8   | 44.8  | 42.8  | 40.8  | 38.8  | 36.8  | 75.5  | 114.2 |
| 102.5° | 47.0  | 46.5  | 46.0  | 45.8   | 49.9  | 58.1  | 66.2  | 74.4  | 82.6  | 125.8 | 169.0 |
| 105°   | 48.1  | 47.6  | 47.1  | 46.9   | 68.9  | 112.8 | 156.7 | 200.6 | 244.5 | 266.8 | 289.2 |
| 107.5° | 181.1 | 213.6 | 246.1 | 262.4  | 281.5 | 319.7 | 357.9 | 396.1 | 434.3 | 430.6 | 426.8 |
| 110°   | 378.0 | 413.5 | 449.0 | 466.7  | 470.8 | 479.0 | 487.1 | 495.3 | 503.5 | 500.8 | 498.0 |

TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 582.6  | 583.1  | 583.6  | 583.9  | 582.8  | 580.5  | 578.3  | 576.0  | 573.8  | 571.1  | 568.3  |
| 115°   | 654.4  | 653.5  | 652.5  | 652.0  | 650.8  | 648.3  | 645.8  | 643.3  | 640.8  | 638.6  | 636.4  |
| 117.5° | 716.2  | 716.0  | 715.7  | 715.6  | 714.6  | 712.6  | 710.7  | 708.7  | 706.7  | 705.5  | 704.2  |
| 120°   | 779.2  | 779.2  | 779.2  | 779.2  | 778.2  | 776.2  | 774.3  | 772.3  | 770.3  | 769.6  | 768.8  |
| 122.5° | 840.1  | 839.9  | 839.6  | 839.5  | 838.9  | 837.6  | 836.4  | 835.1  | 833.9  | 832.9  | 831.9  |
| 125°   | 896.6  | 896.1  | 895.6  | 895.3  | 895.1  | 894.6  | 894.1  | 893.6  | 893.1  | 892.1  | 891.1  |
| 127.5° | 954.4  | 954.9  | 955.4  | 955.6  | 955.2  | 954.5  | 953.8  | 953.0  | 952.3  | 951.1  | 949.8  |
| 130°   | 1008.0 | 1008.5 | 1009.0 | 1009.2 | 1008.7 | 1007.7 | 1006.8 | 1005.8 | 1004.8 | 1003.8 | 1002.8 |
| 132.5° | 1057.6 | 1058.4 | 1059.1 | 1059.5 | 1059.0 | 1058.0 | 1057.0 | 1056.0 | 1055.0 | 1054.2 | 1053.5 |
| 135°   | 1107.8 | 1108.6 | 1109.3 | 1109.7 | 1109.3 | 1108.6 | 1107.8 | 1107.1 | 1106.3 | 1105.3 | 1104.3 |
| 137.5° | 1155.3 | 1155.8 | 1156.3 | 1156.6 | 1156.0 | 1154.7 | 1153.5 | 1152.2 | 1151.0 | 1150.5 | 1150.0 |
| 140°   | 1197.8 | 1198.3 | 1198.8 | 1199.0 | 1198.5 | 1197.5 | 1196.5 | 1195.5 | 1194.5 | 1193.8 | 1193.0 |
| 142.5° | 1237.3 | 1238.1 | 1238.8 | 1239.2 | 1238.8 | 1238.1 | 1237.3 | 1236.6 | 1235.8 | 1235.1 | 1234.3 |
| 145°   | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1275.8 | 1275.3 | 1274.8 | 1274.3 | 1273.8 | 1273.3 | 1272.8 |
| 147.5° | 1307.5 | 1308.8 | 1310.0 | 1310.6 | 1310.4 | 1309.9 | 1309.4 | 1308.9 | 1308.4 | 1307.9 | 1307.4 |
| 150°   | 1340.1 | 1340.8 | 1341.5 | 1341.9 | 1341.7 | 1341.2 | 1340.7 | 1340.2 | 1339.7 | 1339.2 | 1338.7 |
| 152.5° | 1367.8 | 1369.0 | 1370.3 | 1370.9 | 1370.4 | 1369.4 | 1368.5 | 1367.5 | 1366.5 | 1366.2 | 1366.0 |
| 155°   | 1392.9 | 1394.4 | 1395.9 | 1396.6 | 1396.0 | 1394.7 | 1393.5 | 1392.2 | 1391.0 | 1390.8 | 1390.5 |
| 157.5° | 1415.1 | 1417.1 | 1419.1 | 1420.1 | 1419.4 | 1417.9 | 1416.4 | 1414.9 | 1413.4 | 1413.6 | 1413.9 |
| 160°   | 1434.7 | 1436.4 | 1438.1 | 1439.0 | 1438.3 | 1436.8 | 1435.3 | 1433.8 | 1432.3 | 1432.5 | 1432.8 |
| 162.5° | 1453.2 | 1454.7 | 1456.2 | 1456.9 | 1456.0 | 1454.3 | 1452.6 | 1450.8 | 1449.1 | 1449.3 | 1449.6 |
| 165°   | 1468.2 | 1469.9 | 1471.6 | 1472.5 | 1471.5 | 1469.5 | 1467.6 | 1465.6 | 1463.6 | 1463.8 | 1464.1 |
| 167.5° | 1479.9 | 1481.8 | 1483.8 | 1484.8 | 1483.8 | 1481.8 | 1479.9 | 1477.9 | 1475.9 | 1475.9 | 1475.9 |
| 170°   | 1489.9 | 1491.8 | 1493.8 | 1494.8 | 1493.8 | 1491.8 | 1489.9 | 1487.9 | 1485.9 | 1485.9 | 1485.9 |
| 172.5° | 1495.9 | 1498.2 | 1500.4 | 1501.5 | 1500.5 | 1498.5 | 1496.6 | 1494.6 | 1492.6 | 1492.4 | 1492.1 |
| 175°   | 1501.1 | 1503.0 | 1505.0 | 1506.0 | 1505.1 | 1503.4 | 1501.7 | 1499.9 | 1498.2 | 1498.0 | 1497.7 |
| 177.5° | 1503.2 | 1505.7 | 1508.2 | 1509.4 | 1508.4 | 1506.4 | 1504.4 | 1502.4 | 1500.4 | 1500.2 | 1499.9 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 449.9 | 449.9 | 449.9  | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |
| 2.5°   | 462.2 | 460.8 | 460.8  | 460.0 | 457.4 | 452.6 | 452.1 | 453.0 | 450.4 | 447.8 | 443.8 |
| 5°     | 484.8 | 476.5 | 473.9  | 471.3 | 466.1 | 457.4 | 453.9 | 450.8 | 446.0 | 440.4 | 434.2 |
| 7.5°   | 504.0 | 492.2 | 488.7  | 484.0 | 473.5 | 461.3 | 453.4 | 446.9 | 440.4 | 432.5 | 425.1 |
| 10°    | 528.0 | 511.0 | 502.7  | 495.7 | 481.3 | 464.3 | 452.6 | 443.0 | 432.5 | 422.9 | 413.3 |
| 12.5°  | 555.0 | 527.5 | 524.9  | 507.9 | 491.4 | 466.1 | 451.7 | 437.7 | 423.8 | 412.0 | 402.0 |
| 15°    | 577.7 | 547.6 | 536.7  | 525.4 | 493.5 | 462.2 | 448.2 | 432.5 | 416.4 | 403.7 | 388.9 |
| 17.5°  | 592.1 | 567.2 | 544.1  | 528.9 | 495.7 | 467.8 | 440.8 | 422.9 | 405.9 | 388.5 | 376.3 |
| 20°    | 609.5 | 573.3 | 553.3  | 532.8 | 500.1 | 463.5 | 436.4 | 414.2 | 393.3 | 377.6 | 362.7 |
| 22.5°  | 627.0 | 578.1 | 561.6  | 539.3 | 501.0 | 459.1 | 428.6 | 406.3 | 382.4 | 366.7 | 350.5 |
| 25°    | 625.2 | 585.1 | 557.6  | 538.9 | 492.2 | 455.2 | 419.4 | 393.3 | 371.0 | 351.0 | 334.8 |
| 27.5°  | 626.5 | 577.3 | 549.3  | 527.5 | 486.1 | 449.5 | 409.8 | 382.4 | 359.3 | 338.3 | 321.3 |
| 30°    | 627.0 | 565.5 | 541.1  | 514.9 | 474.8 | 436.0 | 398.9 | 371.0 | 346.6 | 323.9 | 308.7 |
| 32.5°  | 625.6 | 555.9 | 525.4  | 501.8 | 456.9 | 422.9 | 386.3 | 356.6 | 331.8 | 310.9 | 296.5 |
| 35°    | 622.6 | 544.6 | 509.2  | 479.6 | 438.6 | 404.2 | 374.5 | 344.0 | 317.4 | 298.2 | 281.7 |
| 37.5°  | 614.3 | 532.3 | 492.2  | 463.0 | 417.2 | 382.4 | 356.2 | 330.9 | 305.2 | 282.5 | 268.6 |
| 40°    | 608.2 | 515.8 | 475.2  | 443.4 | 394.1 | 360.1 | 338.3 | 314.3 | 289.1 | 268.6 | 255.1 |
| 42.5°  | 594.3 | 500.1 | 457.8  | 419.9 | 371.5 | 336.6 | 316.1 | 296.9 | 275.1 | 255.1 | 242.8 |
| 45°    | 571.6 | 483.1 | 436.4  | 398.1 | 346.6 | 313.5 | 294.7 | 279.0 | 259.9 | 240.7 | 228.5 |
| 47.5°  | 539.8 | 458.7 | 413.8  | 375.4 | 322.2 | 288.6 | 269.9 | 258.1 | 242.8 | 226.7 | 216.3 |
| 50°    | 505.3 | 432.1 | 390.6  | 352.7 | 298.7 | 266.0 | 247.6 | 236.7 | 226.7 | 211.9 | 201.9 |
| 52.5°  | 460.4 | 403.7 | 364.1  | 327.9 | 273.4 | 242.0 | 225.8 | 218.0 | 207.5 | 197.1 | 188.3 |
| 55°    | 416.8 | 367.1 | 334.4  | 300.0 | 248.5 | 219.3 | 203.6 | 195.3 | 189.2 | 180.5 | 173.5 |
| 57.5°  | 366.2 | 333.1 | 303.0  | 271.6 | 225.4 | 198.8 | 184.0 | 174.0 | 170.0 | 166.1 | 159.6 |
| 60°    | 319.6 | 294.3 | 269.9  | 243.7 | 201.4 | 177.4 | 163.1 | 155.2 | 151.3 | 148.7 | 144.3 |
| 62.5°  | 276.9 | 257.2 | 236.3  | 215.4 | 177.0 | 155.2 | 144.3 | 136.5 | 133.0 | 132.5 | 128.6 |
| 65°    | 235.9 | 221.9 | 204.9  | 184.4 | 154.3 | 135.2 | 124.7 | 119.9 | 116.0 | 116.0 | 112.9 |
| 67.5°  | 194.9 | 185.3 | 171.8  | 157.4 | 133.8 | 116.0 | 106.4 | 102.0 | 99.8  | 99.8  | 97.7  |
| 70°    | 162.2 | 155.6 | 143.4  | 130.8 | 110.3 | 96.8  | 89.4  | 85.5  | 84.1  | 84.6  | 82.8  |
| 72.5°  | 131.7 | 124.7 | 114.7  | 105.5 | 90.3  | 80.2  | 75.0  | 70.6  | 68.5  | 68.9  | 68.5  |
| 75°    | 102.0 | 98.5  | 89.8   | 82.8  | 70.6  | 63.7  | 58.9  | 56.7  | 54.9  | 55.4  | 54.5  |
| 77.5°  | 76.7  | 71.5  | 66.7   | 61.9  | 54.5  | 48.8  | 44.9  | 42.7  | 41.4  | 41.4  | 41.4  |
| 80°    | 52.3  | 51.4  | 47.5   | 44.9  | 38.8  | 34.4  | 31.4  | 31.0  | 29.6  | 29.6  | 29.6  |
| 82.5°  | 34.0  | 31.8  | 29.6   | 27.9  | 24.4  | 21.8  | 20.5  | 19.6  | 19.2  | 18.7  | 19.6  |
| 85°    | 18.7  | 17.4  | 16.6   | 14.8  | 13.5  | 12.2  | 10.9  | 10.5  | 10.0  | 10.5  | 10.0  |
| 87.5°  | 7.4   | 6.1   | 6.1    | 5.7   | 5.2   | 4.8   | 4.8   | 3.9   | 3.9   | 3.5   | 3.5   |
| 90°    | 17.1  | 13.9  | 12.3   | 11.1  | 8.6   | 6.1   | 3.6   | 1.1   | 3.6   | 6.1   | 8.6   |
| 92.5°  | 22.3  | 20.1  | 19.0   | 19.7  | 21.2  | 22.7  | 24.2  | 25.7  | 24.2  | 22.7  | 21.2  |
| 95°    | 26.4  | 23.7  | 22.3   | 27.4  | 37.6  | 47.7  | 57.9  | 68.1  | 57.9  | 47.7  | 37.6  |
| 97.5°  | 73.7  | 86.4  | 92.7   | 96.2  | 103.1 | 110.0 | 117.0 | 123.9 | 117.0 | 110.0 | 103.1 |
| 100°   | 152.9 | 191.6 | 211.0  | 208.5 | 203.6 | 198.6 | 193.7 | 188.7 | 193.7 | 198.6 | 203.6 |
| 102.5° | 212.1 | 255.3 | 276.9  | 275.3 | 272.1 | 268.8 | 265.6 | 262.4 | 265.6 | 268.8 | 272.1 |
| 105°   | 311.5 | 333.8 | 345.0  | 343.6 | 340.9 | 338.2 | 335.4 | 332.7 | 335.4 | 338.2 | 340.9 |
| 107.5° | 423.1 | 419.4 | 417.5  | 416.4 | 414.2 | 411.9 | 409.7 | 407.5 | 409.7 | 411.9 | 414.2 |
| 110°   | 495.3 | 492.6 | 491.2  | 490.2 | 488.2 | 486.3 | 484.3 | 482.3 | 484.3 | 486.3 | 488.2 |

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CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 565.6  | 562.9  | 561.5  | 560.6  | 558.9  | 557.2  | 555.4  | 553.7  | 555.4  | 557.2  | 558.9  |
| 115°   | 634.1  | 631.9  | 630.8  | 630.1  | 628.6  | 627.1  | 625.6  | 624.1  | 625.6  | 627.1  | 628.6  |
| 117.5° | 703.0  | 701.7  | 701.1  | 700.2  | 698.5  | 696.8  | 695.0  | 693.3  | 695.0  | 696.8  | 698.5  |
| 120°   | 768.1  | 767.4  | 767.0  | 765.9  | 763.6  | 761.4  | 759.1  | 756.9  | 759.1  | 761.4  | 763.6  |
| 122.5° | 831.0  | 830.0  | 829.5  | 828.6  | 826.9  | 825.2  | 823.4  | 821.7  | 823.4  | 825.2  | 826.9  |
| 125°   | 890.1  | 889.1  | 888.6  | 887.6  | 885.6  | 883.7  | 881.7  | 879.7  | 881.7  | 883.7  | 885.6  |
| 127.5° | 948.6  | 947.3  | 946.7  | 945.7  | 943.7  | 941.8  | 939.8  | 937.8  | 939.8  | 941.8  | 943.7  |
| 130°   | 1001.8 | 1000.8 | 1000.3 | 999.3  | 997.3  | 995.4  | 993.4  | 991.4  | 993.4  | 995.4  | 997.3  |
| 132.5° | 1052.7 | 1052.0 | 1051.6 | 1050.6 | 1048.6 | 1046.7 | 1044.7 | 1042.7 | 1044.7 | 1046.7 | 1048.6 |
| 135°   | 1103.4 | 1102.4 | 1101.9 | 1101.2 | 1099.7 | 1098.2 | 1096.7 | 1095.2 | 1096.7 | 1098.2 | 1099.7 |
| 137.5° | 1149.5 | 1149.0 | 1148.8 | 1147.8 | 1145.8 | 1143.8 | 1141.8 | 1139.8 | 1141.8 | 1143.8 | 1145.8 |
| 140°   | 1192.3 | 1191.6 | 1191.2 | 1190.5 | 1189.0 | 1187.5 | 1186.0 | 1184.5 | 1186.0 | 1187.5 | 1189.0 |
| 142.5° | 1233.6 | 1232.9 | 1232.5 | 1231.8 | 1230.3 | 1228.8 | 1227.3 | 1225.8 | 1227.3 | 1228.8 | 1230.3 |
| 145°   | 1272.3 | 1271.8 | 1271.6 | 1270.7 | 1269.0 | 1267.3 | 1265.5 | 1263.8 | 1265.5 | 1267.3 | 1269.0 |
| 147.5° | 1306.9 | 1306.4 | 1306.2 | 1305.6 | 1304.3 | 1303.1 | 1301.8 | 1300.6 | 1301.8 | 1303.1 | 1304.3 |
| 150°   | 1338.2 | 1337.7 | 1337.4 | 1337.0 | 1336.3 | 1335.6 | 1334.8 | 1334.1 | 1334.8 | 1335.6 | 1336.3 |
| 152.5° | 1365.7 | 1365.4 | 1365.3 | 1365.2 | 1364.9 | 1364.7 | 1364.4 | 1364.2 | 1364.4 | 1364.7 | 1364.9 |
| 155°   | 1390.3 | 1390.0 | 1389.9 | 1390.1 | 1390.6 | 1391.1 | 1391.6 | 1392.1 | 1391.6 | 1391.1 | 1390.6 |
| 157.5° | 1414.1 | 1414.4 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 | 1414.5 |
| 160°   | 1433.0 | 1433.3 | 1433.4 | 1433.5 | 1433.8 | 1434.1 | 1434.3 | 1434.6 | 1434.3 | 1434.1 | 1433.8 |
| 162.5° | 1449.8 | 1450.1 | 1450.2 | 1450.6 | 1451.3 | 1452.0 | 1452.8 | 1453.5 | 1452.8 | 1452.0 | 1451.3 |
| 165°   | 1464.3 | 1464.6 | 1464.7 | 1465.1 | 1465.8 | 1466.6 | 1467.3 | 1468.1 | 1467.3 | 1466.6 | 1465.8 |
| 167.5° | 1475.9 | 1475.9 | 1475.9 | 1476.4 | 1477.4 | 1478.3 | 1479.3 | 1480.3 | 1479.3 | 1478.3 | 1477.4 |
| 170°   | 1485.9 | 1485.9 | 1485.9 | 1486.4 | 1487.4 | 1488.4 | 1489.4 | 1490.4 | 1489.4 | 1488.4 | 1487.4 |
| 172.5° | 1491.9 | 1491.6 | 1491.5 | 1492.1 | 1493.4 | 1494.6 | 1495.9 | 1497.1 | 1495.9 | 1494.6 | 1493.4 |
| 175°   | 1497.5 | 1497.2 | 1497.1 | 1497.7 | 1499.0 | 1500.2 | 1501.5 | 1502.7 | 1501.5 | 1500.2 | 1499.0 |
| 177.5° | 1499.7 | 1499.4 | 1499.3 | 1499.9 | 1501.2 | 1502.4 | 1503.7 | 1504.9 | 1503.7 | 1502.4 | 1501.2 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 449.9 | 449.9  | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |
| 2.5°   | 443.0 | 442.5  | 443.4 | 440.8 | 436.4 | 434.2 | 428.1 | 426.8 | 426.4 | 426.8 | 427.3 |
| 5°     | 430.8 | 430.3  | 429.0 | 424.7 | 419.4 | 415.5 | 408.1 | 407.7 | 405.0 | 402.4 | 403.7 |
| 7.5°   | 419.0 | 417.2  | 414.6 | 409.0 | 402.0 | 397.6 | 391.5 | 387.2 | 383.7 | 381.5 | 379.7 |
| 10°    | 407.2 | 404.6  | 402.0 | 394.6 | 385.9 | 379.3 | 371.9 | 368.4 | 364.5 | 362.7 | 361.0 |
| 12.5°  | 392.0 | 389.3  | 384.5 | 375.8 | 370.6 | 362.3 | 354.9 | 351.4 | 349.2 | 345.7 | 343.6 |
| 15°    | 379.7 | 374.5  | 371.9 | 362.7 | 351.8 | 351.0 | 337.5 | 336.6 | 332.2 | 332.2 | 328.7 |
| 17.5°  | 365.8 | 361.9  | 357.1 | 347.9 | 340.1 | 332.2 | 325.2 | 322.6 | 318.7 | 317.8 | 316.1 |
| 20°    | 352.3 | 347.0  | 345.3 | 336.1 | 327.9 | 318.3 | 310.9 | 308.2 | 306.5 | 304.8 | 306.1 |
| 22.5°  | 338.3 | 334.0  | 329.6 | 321.3 | 315.2 | 305.6 | 301.3 | 298.7 | 296.0 | 295.2 | 295.6 |
| 25°    | 324.8 | 320.9  | 316.5 | 308.2 | 301.7 | 293.9 | 289.9 | 288.6 | 287.3 | 287.3 | 286.9 |
| 27.5°  | 311.7 | 307.8  | 303.9 | 296.5 | 289.9 | 284.3 | 281.2 | 279.9 | 278.6 | 279.5 | 280.3 |
| 30°    | 298.2 | 294.7  | 291.2 | 284.7 | 279.5 | 274.2 | 272.5 | 271.6 | 271.2 | 273.4 | 273.4 |
| 32.5°  | 286.0 | 283.0  | 280.3 | 274.2 | 269.0 | 264.6 | 263.3 | 263.8 | 264.2 | 265.5 | 266.4 |
| 35°    | 273.4 | 271.2  | 268.6 | 263.3 | 259.0 | 255.1 | 255.5 | 255.5 | 256.4 | 258.5 | 260.3 |
| 37.5°  | 262.0 | 259.0  | 256.8 | 252.4 | 249.0 | 245.5 | 246.8 | 248.1 | 249.0 | 251.6 | 252.4 |
| 40°    | 248.5 | 247.2  | 245.5 | 241.1 | 238.1 | 237.6 | 238.1 | 238.9 | 240.7 | 242.0 | 243.3 |
| 42.5°  | 237.6 | 235.9  | 233.7 | 230.2 | 227.6 | 228.0 | 228.5 | 229.3 | 230.2 | 232.4 | 233.7 |
| 45°    | 225.4 | 224.1  | 222.4 | 219.3 | 217.1 | 217.6 | 218.0 | 218.0 | 218.9 | 221.5 | 222.4 |
| 47.5°  | 211.9 | 212.3  | 210.1 | 207.1 | 205.8 | 205.8 | 205.8 | 206.7 | 208.8 | 209.7 | 210.1 |
| 50°    | 198.8 | 197.9  | 197.5 | 194.5 | 193.6 | 193.1 | 193.6 | 194.0 | 197.1 | 196.6 | 197.9 |
| 52.5°  | 184.9 | 184.9  | 184.4 | 182.7 | 181.4 | 181.4 | 180.5 | 182.7 | 183.6 | 184.4 | 185.7 |
| 55°    | 171.3 | 170.0  | 169.6 | 168.7 | 167.0 | 166.5 | 167.4 | 170.0 | 170.9 | 171.8 | 173.1 |
| 57.5°  | 156.5 | 156.5  | 155.6 | 154.3 | 154.3 | 154.3 | 154.3 | 156.1 | 157.4 | 158.3 | 160.9 |
| 60°    | 143.0 | 141.3  | 140.0 | 140.0 | 140.0 | 139.5 | 142.1 | 142.1 | 144.7 | 145.2 | 146.1 |
| 62.5°  | 126.9 | 126.0  | 125.1 | 125.6 | 125.1 | 126.0 | 126.9 | 128.6 | 129.1 | 130.4 | 131.7 |
| 65°    | 111.6 | 111.6  | 110.7 | 113.4 | 111.6 | 111.6 | 113.8 | 113.8 | 114.7 | 116.0 | 117.7 |
| 67.5°  | 96.8  | 97.2   | 96.4  | 96.4  | 97.2  | 97.7  | 98.1  | 99.8  | 100.3 | 102.0 | 104.2 |
| 70°    | 81.5  | 82.4   | 82.8  | 82.0  | 82.8  | 83.7  | 84.6  | 85.0  | 86.8  | 87.6  | 88.9  |
| 72.5°  | 68.0  | 68.9   | 67.6  | 68.0  | 68.5  | 69.3  | 69.8  | 70.6  | 71.5  | 74.1  | 75.0  |
| 75°    | 54.5  | 54.1   | 53.6  | 55.4  | 54.5  | 56.2  | 56.7  | 56.7  | 57.6  | 59.7  | 60.6  |
| 77.5°  | 41.9  | 41.9   | 42.3  | 41.4  | 42.7  | 42.3  | 42.7  | 44.0  | 45.3  | 45.3  | 48.8  |
| 80°    | 29.2  | 30.1   | 30.1  | 30.1  | 30.5  | 31.0  | 30.1  | 32.3  | 32.7  | 32.7  | 34.0  |
| 82.5°  | 18.7  | 19.2   | 18.7  | 19.6  | 19.6  | 20.5  | 20.1  | 20.5  | 21.4  | 22.2  | 22.7  |
| 85°    | 10.0  | 10.0   | 10.9  | 10.9  | 10.5  | 10.9  | 10.5  | 10.9  | 11.8  | 11.8  | 12.2  |
| 87.5°  | 3.5   | 3.5    | 3.5   | 3.5   | 3.9   | 3.5   | 3.9   | 3.9   | 3.5   | 3.5   | 4.8   |
| 90°    | 11.1  | 12.3   | 13.9  | 17.1  | 20.4  | 23.6  | 26.8  | 27.8  | 28.8  | 29.8  | 30.8  |
| 92.5°  | 19.7  | 19.0   | 20.1  | 22.3  | 24.6  | 26.8  | 29.0  | 30.7  | 32.5  | 34.2  | 35.9  |
| 95°    | 27.4  | 22.3   | 23.7  | 26.4  | 29.1  | 31.9  | 34.6  | 36.3  | 38.1  | 39.8  | 41.5  |
| 97.5°  | 96.2  | 92.7   | 86.4  | 73.7  | 61.0  | 48.4  | 35.7  | 37.7  | 39.7  | 41.7  | 43.7  |
| 100°   | 208.5 | 211.0  | 191.6 | 152.9 | 114.2 | 75.5  | 36.8  | 38.8  | 40.8  | 42.8  | 44.8  |
| 102.5° | 275.3 | 276.9  | 255.3 | 212.1 | 169.0 | 125.8 | 82.6  | 74.4  | 66.2  | 58.1  | 49.9  |
| 105°   | 343.6 | 345.0  | 333.8 | 311.5 | 289.2 | 266.8 | 244.5 | 200.6 | 156.7 | 112.8 | 68.9  |
| 107.5° | 416.4 | 417.5  | 419.4 | 423.1 | 426.8 | 430.6 | 434.3 | 396.1 | 357.9 | 319.7 | 281.5 |
| 110°   | 490.2 | 491.2  | 492.6 | 495.3 | 498.0 | 500.8 | 503.5 | 495.3 | 487.1 | 479.0 | 470.8 |

TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 560.6  | 561.5  | 562.9  | 565.6  | 568.3  | 571.1  | 573.8  | 576.0  | 578.3  | 580.5  | 582.8  |
| 115°   | 630.1  | 630.8  | 631.9  | 634.1  | 636.4  | 638.6  | 640.8  | 643.3  | 645.8  | 648.3  | 650.8  |
| 117.5° | 700.2  | 701.1  | 701.7  | 703.0  | 704.2  | 705.5  | 706.7  | 708.7  | 710.7  | 712.6  | 714.6  |
| 120°   | 765.9  | 767.0  | 767.4  | 768.1  | 768.8  | 769.6  | 770.3  | 772.3  | 774.3  | 776.2  | 778.2  |
| 122.5° | 828.6  | 829.5  | 830.0  | 831.0  | 831.9  | 832.9  | 833.9  | 835.1  | 836.4  | 837.6  | 838.9  |
| 125°   | 887.6  | 888.6  | 889.1  | 890.1  | 891.1  | 892.1  | 893.1  | 893.6  | 894.1  | 894.6  | 895.1  |
| 127.5° | 945.7  | 946.7  | 947.3  | 948.6  | 949.8  | 951.1  | 952.3  | 953.0  | 953.8  | 954.5  | 955.2  |
| 130°   | 999.3  | 1000.3 | 1000.8 | 1001.8 | 1002.8 | 1003.8 | 1004.8 | 1005.8 | 1006.8 | 1007.7 | 1008.7 |
| 132.5° | 1050.6 | 1051.6 | 1052.0 | 1052.7 | 1053.5 | 1054.2 | 1055.0 | 1056.0 | 1057.0 | 1058.0 | 1059.0 |
| 135°   | 1101.2 | 1101.9 | 1102.4 | 1103.4 | 1104.3 | 1105.3 | 1106.3 | 1107.1 | 1107.8 | 1108.6 | 1109.3 |
| 137.5° | 1147.8 | 1148.8 | 1149.0 | 1149.5 | 1150.0 | 1150.5 | 1151.0 | 1152.2 | 1153.5 | 1154.7 | 1156.0 |
| 140°   | 1190.5 | 1191.2 | 1191.6 | 1192.3 | 1193.0 | 1193.8 | 1194.5 | 1195.5 | 1196.5 | 1197.5 | 1198.5 |
| 142.5° | 1231.8 | 1232.5 | 1232.9 | 1233.6 | 1234.3 | 1235.1 | 1235.8 | 1236.6 | 1237.3 | 1238.1 | 1238.8 |
| 145°   | 1270.7 | 1271.6 | 1271.8 | 1272.3 | 1272.8 | 1273.3 | 1273.8 | 1274.3 | 1274.8 | 1275.3 | 1275.8 |
| 147.5° | 1305.6 | 1306.2 | 1306.4 | 1306.9 | 1307.4 | 1307.9 | 1308.4 | 1308.9 | 1309.4 | 1309.9 | 1310.4 |
| 150°   | 1337.0 | 1337.4 | 1337.7 | 1338.2 | 1338.7 | 1339.2 | 1339.7 | 1340.2 | 1340.7 | 1341.2 | 1341.7 |
| 152.5° | 1365.2 | 1365.3 | 1365.4 | 1365.7 | 1366.0 | 1366.2 | 1366.5 | 1367.5 | 1368.5 | 1369.4 | 1370.4 |
| 155°   | 1390.1 | 1389.9 | 1390.0 | 1390.3 | 1390.5 | 1390.8 | 1391.0 | 1392.2 | 1393.5 | 1394.7 | 1396.0 |
| 157.5° | 1414.5 | 1414.5 | 1414.4 | 1414.1 | 1413.9 | 1413.6 | 1413.4 | 1414.9 | 1416.4 | 1417.9 | 1419.4 |
| 160°   | 1433.5 | 1433.4 | 1433.3 | 1433.0 | 1432.8 | 1432.5 | 1432.3 | 1433.8 | 1435.3 | 1436.8 | 1438.3 |
| 162.5° | 1450.6 | 1450.2 | 1450.1 | 1449.8 | 1449.6 | 1449.3 | 1449.1 | 1450.8 | 1452.6 | 1454.3 | 1456.0 |
| 165°   | 1465.1 | 1464.7 | 1464.6 | 1464.3 | 1464.1 | 1463.8 | 1463.6 | 1465.6 | 1467.6 | 1469.5 | 1471.5 |
| 167.5° | 1476.4 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1477.9 | 1479.9 | 1481.8 | 1483.8 |
| 170°   | 1486.4 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1487.9 | 1489.9 | 1491.8 | 1493.8 |
| 172.5° | 1492.1 | 1491.5 | 1491.6 | 1491.9 | 1492.1 | 1492.4 | 1492.6 | 1494.6 | 1496.6 | 1498.5 | 1500.5 |
| 175°   | 1497.7 | 1497.1 | 1497.2 | 1497.5 | 1497.7 | 1498.0 | 1498.2 | 1499.9 | 1501.7 | 1503.4 | 1505.1 |
| 177.5° | 1499.9 | 1499.3 | 1499.4 | 1499.7 | 1499.9 | 1500.2 | 1500.4 | 1502.4 | 1504.4 | 1506.4 | 1508.4 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 449.9  | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9  |
| 2.5°   | 426.8  | 427.3 | 425.5 | 424.2 | 427.7 | 425.5 | 425.5 | 426.0 | 425.1 | 426.4 | 426.0  |
| 5°     | 402.9  | 403.3 | 400.2 | 401.1 | 399.4 | 398.9 | 398.5 | 401.1 | 400.7 | 400.2 | 401.1  |
| 7.5°   | 379.3  | 379.3 | 378.0 | 377.1 | 377.1 | 375.8 | 377.6 | 377.1 | 378.0 | 378.0 | 379.3  |
| 10°    | 359.7  | 360.6 | 358.4 | 356.2 | 355.8 | 356.2 | 356.2 | 356.6 | 357.1 | 360.1 | 359.7  |
| 12.5°  | 343.6  | 342.3 | 341.8 | 340.5 | 338.3 | 337.5 | 336.6 | 341.4 | 340.1 | 340.1 | 340.1  |
| 15°    | 325.7  | 328.7 | 328.3 | 324.4 | 323.5 | 325.2 | 324.4 | 324.4 | 328.7 | 328.3 | 327.9  |
| 17.5°  | 316.1  | 315.2 | 314.3 | 312.2 | 312.6 | 312.2 | 312.6 | 312.6 | 315.2 | 315.2 | 315.2  |
| 20°    | 305.2  | 303.4 | 303.4 | 302.6 | 302.6 | 301.3 | 303.0 | 303.4 | 305.2 | 305.2 | 305.6  |
| 22.5°  | 295.6  | 294.3 | 294.3 | 293.9 | 294.7 | 293.0 | 294.7 | 295.2 | 295.2 | 296.5 | 296.5  |
| 25°    | 287.3  | 286.4 | 286.4 | 287.3 | 287.3 | 287.3 | 287.3 | 289.1 | 287.8 | 288.2 | 287.8  |
| 27.5°  | 279.9  | 280.3 | 280.8 | 281.2 | 280.8 | 281.2 | 281.7 | 282.5 | 283.0 | 282.5 | 281.7  |
| 30°    | 272.9  | 274.2 | 274.7 | 274.7 | 275.5 | 276.0 | 276.4 | 276.4 | 276.9 | 275.5 | 276.4  |
| 32.5°  | 267.7  | 267.7 | 268.6 | 269.0 | 269.9 | 270.3 | 270.3 | 271.2 | 270.8 | 269.4 | 269.9  |
| 35°    | 260.3  | 260.3 | 262.0 | 262.9 | 264.2 | 263.8 | 264.2 | 264.2 | 264.6 | 263.8 | 262.5  |
| 37.5°  | 252.9  | 253.7 | 253.7 | 255.5 | 255.9 | 256.4 | 255.9 | 256.8 | 256.4 | 255.5 | 255.1  |
| 40°    | 244.2  | 243.7 | 244.2 | 245.5 | 245.9 | 245.9 | 245.9 | 246.8 | 246.8 | 246.8 | 246.3  |
| 42.5°  | 233.3  | 234.6 | 234.1 | 235.4 | 235.0 | 235.0 | 235.9 | 236.7 | 237.2 | 235.9 | 236.3  |
| 45°    | 222.8  | 222.8 | 223.7 | 223.7 | 224.1 | 224.1 | 225.8 | 225.0 | 225.8 | 225.0 | 225.4  |
| 47.5°  | 211.5  | 211.9 | 211.9 | 212.3 | 213.2 | 214.1 | 213.2 | 213.6 | 213.6 | 214.1 | 213.2  |
| 50°    | 198.8  | 198.8 | 199.7 | 201.0 | 202.7 | 201.9 | 201.4 | 203.2 | 201.9 | 201.9 | 201.0  |
| 52.5°  | 185.7  | 187.0 | 187.5 | 188.8 | 190.1 | 190.5 | 191.0 | 190.1 | 190.5 | 189.2 | 189.7  |
| 55°    | 173.1  | 173.5 | 175.3 | 176.6 | 177.9 | 177.9 | 177.4 | 177.9 | 178.3 | 176.6 | 176.6  |
| 57.5°  | 160.4  | 161.8 | 163.5 | 163.5 | 165.2 | 165.2 | 164.8 | 164.8 | 165.2 | 163.9 | 163.5  |
| 60°    | 146.9  | 148.2 | 150.4 | 150.4 | 153.0 | 153.5 | 152.6 | 151.7 | 151.7 | 150.4 | 150.9  |
| 62.5°  | 132.5  | 133.8 | 135.2 | 137.3 | 139.1 | 138.2 | 140.0 | 138.2 | 138.6 | 136.0 | 136.0  |
| 65°    | 119.9  | 120.3 | 122.5 | 124.7 | 124.7 | 125.6 | 124.7 | 125.1 | 123.8 | 123.8 | 122.1  |
| 67.5°  | 105.1  | 105.1 | 107.3 | 109.4 | 111.6 | 111.6 | 111.6 | 110.3 | 110.3 | 109.0 | 109.0  |
| 70°    | 92.0   | 91.6  | 93.7  | 95.0  | 96.4  | 96.8  | 95.9  | 95.5  | 94.6  | 93.3  | 92.9   |
| 72.5°  | 75.9   | 76.7  | 78.9  | 79.8  | 82.0  | 81.5  | 83.7  | 81.1  | 81.1  | 78.9  | 78.5   |
| 75°    | 61.5   | 62.3  | 64.5  | 65.8  | 67.1  | 67.1  | 68.5  | 67.1  | 65.4  | 64.5  | 64.1   |
| 77.5°  | 48.8   | 48.4  | 50.1  | 52.3  | 52.8  | 52.3  | 53.2  | 52.8  | 51.0  | 51.0  | 50.1   |
| 80°    | 34.9   | 36.2  | 37.9  | 37.5  | 39.2  | 38.8  | 38.8  | 37.9  | 37.9  | 36.6  | 37.5   |
| 82.5°  | 23.1   | 24.4  | 24.9  | 24.4  | 24.9  | 25.7  | 26.2  | 25.7  | 25.7  | 24.9  | 25.3   |
| 85°    | 12.2   | 12.2  | 13.1  | 13.5  | 13.1  | 13.1  | 13.5  | 14.8  | 14.0  | 13.1  | 14.0   |
| 87.5°  | 3.9    | 3.5   | 3.5   | 3.9   | 3.5   | 3.5   | 3.9   | 3.9   | 4.4   | 4.4   | 4.4    |
| 90°    | 31.3   | 31.5  | 32.0  | 32.5  | 33.0  | 33.5  | 33.0  | 32.5  | 32.0  | 31.5  | 31.3   |
| 92.5°  | 36.8   | 36.9  | 37.2  | 37.5  | 37.7  | 38.0  | 37.7  | 37.5  | 37.2  | 36.9  | 36.8   |
| 95°    | 42.4   | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4   |
| 97.5°  | 44.7   | 44.8  | 45.1  | 45.3  | 45.6  | 45.8  | 45.6  | 45.3  | 45.1  | 44.8  | 44.7   |
| 100°   | 45.8   | 45.9  | 46.2  | 46.4  | 46.7  | 46.9  | 46.7  | 46.4  | 46.2  | 45.9  | 45.8   |
| 102.5° | 45.8   | 46.0  | 46.5  | 47.0  | 47.5  | 48.0  | 47.5  | 47.0  | 46.5  | 46.0  | 45.8   |
| 105°   | 46.9   | 47.1  | 47.6  | 48.1  | 48.6  | 49.1  | 48.6  | 48.1  | 47.6  | 47.1  | 46.9   |
| 107.5° | 262.4  | 246.1 | 213.6 | 181.1 | 148.6 | 116.1 | 148.6 | 181.1 | 213.6 | 246.1 | 262.4  |
| 110°   | 466.7  | 449.0 | 413.5 | 378.0 | 342.5 | 307.0 | 342.5 | 378.0 | 413.5 | 449.0 | 466.7  |



TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 583.9  | 583.6  | 583.1  | 582.6  | 582.1  | 581.6  | 582.1  | 582.6  | 583.1  | 583.6  | 583.9  |
| 115°   | 652.0  | 652.5  | 653.5  | 654.4  | 655.4  | 656.4  | 655.4  | 654.4  | 653.5  | 652.5  | 652.0  |
| 117.5° | 715.6  | 715.7  | 716.0  | 716.2  | 716.5  | 716.7  | 716.5  | 716.2  | 716.0  | 715.7  | 715.6  |
| 120°   | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  | 779.2  |
| 122.5° | 839.5  | 839.6  | 839.9  | 840.1  | 840.4  | 840.6  | 840.4  | 840.1  | 839.9  | 839.6  | 839.5  |
| 125°   | 895.3  | 895.6  | 896.1  | 896.6  | 897.1  | 897.6  | 897.1  | 896.6  | 896.1  | 895.6  | 895.3  |
| 127.5° | 955.6  | 955.4  | 954.9  | 954.4  | 953.9  | 953.4  | 953.9  | 954.4  | 954.9  | 955.4  | 955.6  |
| 130°   | 1009.2 | 1009.0 | 1008.5 | 1008.0 | 1007.5 | 1007.0 | 1007.5 | 1008.0 | 1008.5 | 1009.0 | 1009.2 |
| 132.5° | 1059.5 | 1059.1 | 1058.4 | 1057.6 | 1056.9 | 1056.1 | 1056.9 | 1057.6 | 1058.4 | 1059.1 | 1059.5 |
| 135°   | 1109.7 | 1109.3 | 1108.6 | 1107.8 | 1107.1 | 1106.3 | 1107.1 | 1107.8 | 1108.6 | 1109.3 | 1109.7 |
| 137.5° | 1156.6 | 1156.3 | 1155.8 | 1155.3 | 1154.8 | 1154.3 | 1154.8 | 1155.3 | 1155.8 | 1156.3 | 1156.6 |
| 140°   | 1199.0 | 1198.8 | 1198.3 | 1197.8 | 1197.3 | 1196.8 | 1197.3 | 1197.8 | 1198.3 | 1198.8 | 1199.0 |
| 142.5° | 1239.2 | 1238.8 | 1238.1 | 1237.3 | 1236.6 | 1235.8 | 1236.6 | 1237.3 | 1238.1 | 1238.8 | 1239.2 |
| 145°   | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 | 1276.0 |
| 147.5° | 1310.6 | 1310.0 | 1308.8 | 1307.5 | 1306.3 | 1305.1 | 1306.3 | 1307.5 | 1308.8 | 1310.0 | 1310.6 |
| 150°   | 1341.9 | 1341.5 | 1340.8 | 1340.1 | 1339.3 | 1338.6 | 1339.3 | 1340.1 | 1340.8 | 1341.5 | 1341.9 |
| 152.5° | 1370.9 | 1370.3 | 1369.0 | 1367.8 | 1366.5 | 1365.3 | 1366.5 | 1367.8 | 1369.0 | 1370.3 | 1370.9 |
| 155°   | 1396.6 | 1395.9 | 1394.4 | 1392.9 | 1391.4 | 1389.9 | 1391.4 | 1392.9 | 1394.4 | 1395.9 | 1396.6 |
| 157.5° | 1420.1 | 1419.1 | 1417.1 | 1415.1 | 1413.1 | 1411.1 | 1413.1 | 1415.1 | 1417.1 | 1419.1 | 1420.1 |
| 160°   | 1439.0 | 1438.1 | 1436.4 | 1434.7 | 1432.9 | 1431.2 | 1432.9 | 1434.7 | 1436.4 | 1438.1 | 1439.0 |
| 162.5° | 1456.9 | 1456.2 | 1454.7 | 1453.2 | 1451.7 | 1450.2 | 1451.7 | 1453.2 | 1454.7 | 1456.2 | 1456.9 |
| 165°   | 1472.5 | 1471.6 | 1469.9 | 1468.2 | 1466.4 | 1464.7 | 1466.4 | 1468.2 | 1469.9 | 1471.6 | 1472.5 |
| 167.5° | 1484.8 | 1483.8 | 1481.8 | 1479.9 | 1477.9 | 1475.9 | 1477.9 | 1479.9 | 1481.8 | 1483.8 | 1484.8 |
| 170°   | 1494.8 | 1493.8 | 1491.8 | 1489.9 | 1487.9 | 1485.9 | 1487.9 | 1489.9 | 1491.8 | 1493.8 | 1494.8 |
| 172.5° | 1501.5 | 1500.4 | 1498.2 | 1495.9 | 1493.7 | 1491.5 | 1493.7 | 1495.9 | 1498.2 | 1500.4 | 1501.5 |
| 175°   | 1506.0 | 1505.0 | 1503.0 | 1501.1 | 1499.1 | 1497.1 | 1499.1 | 1501.1 | 1503.0 | 1505.0 | 1506.0 |
| 177.5° | 1509.4 | 1508.2 | 1505.7 | 1503.2 | 1500.7 | 1498.2 | 1500.7 | 1503.2 | 1505.7 | 1508.2 | 1509.4 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9  | 449.9 |
| 2.5°   | 427.3 | 428.1 | 428.6 | 426.8 | 425.5 | 427.7 | 430.8 | 432.9 | 434.7 | 436.9  | 438.2 |
| 5°     | 402.0 | 405.0 | 405.0 | 405.9 | 407.2 | 409.4 | 415.1 | 419.0 | 422.5 | 425.1  | 427.3 |
| 7.5°   | 380.6 | 382.8 | 384.1 | 386.3 | 388.5 | 391.5 | 398.1 | 403.7 | 409.0 | 412.0  | 415.5 |
| 10°    | 361.4 | 363.2 | 365.4 | 366.7 | 370.6 | 375.0 | 383.2 | 388.0 | 394.1 | 398.9  | 403.3 |
| 12.5°  | 343.1 | 349.2 | 350.5 | 350.1 | 353.6 | 358.4 | 366.7 | 374.1 | 380.6 | 385.4  | 390.2 |
| 15°    | 330.0 | 332.2 | 334.8 | 334.4 | 341.8 | 343.1 | 350.1 | 358.8 | 367.5 | 370.6  | 375.0 |
| 17.5°  | 315.7 | 319.1 | 321.8 | 323.1 | 325.2 | 330.0 | 336.6 | 343.1 | 354.5 | 354.9  | 366.2 |
| 20°    | 304.3 | 307.8 | 309.6 | 311.3 | 312.6 | 318.3 | 323.9 | 331.4 | 340.5 | 345.3  | 351.4 |
| 22.5°  | 296.9 | 298.7 | 300.0 | 301.3 | 303.0 | 306.1 | 313.0 | 321.3 | 327.4 | 332.7  | 336.6 |
| 25°    | 288.2 | 289.9 | 291.7 | 292.6 | 293.9 | 295.6 | 300.8 | 307.4 | 316.1 | 319.6  | 323.5 |
| 27.5°  | 282.1 | 282.1 | 283.0 | 283.0 | 284.7 | 286.4 | 290.4 | 296.5 | 303.4 | 307.8  | 313.0 |
| 30°    | 275.5 | 275.1 | 275.5 | 275.1 | 274.7 | 277.3 | 280.8 | 286.0 | 290.8 | 296.0  | 299.5 |
| 32.5°  | 269.0 | 268.6 | 268.6 | 269.0 | 267.3 | 268.6 | 270.3 | 275.1 | 280.3 | 283.0  | 286.9 |
| 35°    | 262.0 | 261.2 | 261.2 | 261.2 | 260.3 | 259.4 | 261.2 | 265.5 | 269.0 | 272.5  | 275.5 |
| 37.5°  | 255.1 | 253.7 | 253.7 | 252.9 | 252.0 | 250.7 | 250.7 | 254.2 | 259.0 | 260.3  | 264.2 |
| 40°    | 245.5 | 245.5 | 244.6 | 244.2 | 243.3 | 242.4 | 241.1 | 244.2 | 248.5 | 249.8  | 252.9 |
| 42.5°  | 235.9 | 234.6 | 234.1 | 234.1 | 234.1 | 232.8 | 231.9 | 234.1 | 236.7 | 238.9  | 240.7 |
| 45°    | 225.0 | 224.1 | 224.5 | 224.1 | 223.2 | 222.8 | 222.4 | 223.2 | 226.3 | 227.2  | 229.3 |
| 47.5°  | 213.2 | 212.8 | 212.8 | 212.3 | 211.9 | 212.3 | 210.6 | 212.8 | 213.6 | 214.5  | 216.3 |
| 50°    | 201.0 | 200.6 | 200.1 | 199.7 | 199.7 | 200.1 | 199.7 | 199.7 | 201.4 | 202.3  | 204.0 |
| 52.5°  | 188.8 | 187.5 | 187.5 | 187.0 | 187.0 | 186.2 | 187.0 | 187.5 | 188.3 | 189.2  | 190.1 |
| 55°    | 175.7 | 175.7 | 174.4 | 174.4 | 173.5 | 173.5 | 174.0 | 173.5 | 175.3 | 176.1  | 176.1 |
| 57.5°  | 163.1 | 161.3 | 161.8 | 160.9 | 160.0 | 159.6 | 159.6 | 160.4 | 161.3 | 161.3  | 162.2 |
| 60°    | 149.5 | 147.8 | 147.4 | 145.6 | 146.5 | 145.2 | 145.6 | 145.6 | 147.4 | 146.5  | 147.4 |
| 62.5°  | 136.0 | 133.8 | 132.5 | 131.7 | 131.7 | 132.1 | 131.2 | 130.8 | 131.7 | 132.5  | 134.3 |
| 65°    | 121.6 | 120.3 | 119.0 | 117.7 | 117.7 | 117.3 | 118.2 | 116.8 | 116.4 | 116.8  | 117.7 |
| 67.5°  | 106.8 | 105.5 | 104.2 | 102.9 | 103.3 | 102.0 | 101.1 | 102.5 | 101.6 | 102.0  | 102.9 |
| 70°    | 92.4  | 91.6  | 88.9  | 88.1  | 87.6  | 88.1  | 87.6  | 86.8  | 88.1  | 87.6   | 88.1  |
| 72.5°  | 78.0  | 77.2  | 75.9  | 73.7  | 73.7  | 73.2  | 72.8  | 72.8  | 72.4  | 72.4   | 72.4  |
| 75°    | 64.1  | 62.3  | 61.0  | 60.6  | 59.7  | 59.3  | 58.9  | 58.0  | 58.4  | 58.9   | 58.0  |
| 77.5°  | 49.7  | 47.5  | 47.1  | 47.1  | 45.8  | 45.8  | 46.2  | 45.8  | 45.3  | 45.3   | 45.3  |
| 80°    | 36.6  | 34.9  | 34.9  | 34.0  | 33.1  | 33.1  | 33.1  | 33.1  | 32.7  | 32.3   | 32.7  |
| 82.5°  | 23.5  | 23.1  | 22.7  | 22.7  | 23.5  | 21.8  | 22.7  | 22.2  | 21.8  | 21.8   | 21.4  |
| 85°    | 13.1  | 13.5  | 13.1  | 13.5  | 12.6  | 13.1  | 13.1  | 13.1  | 12.6  | 13.1   | 12.2  |
| 87.5°  | 4.8   | 4.8   | 4.8   | 5.2   | 5.2   | 5.2   | 5.2   | 5.2   | 5.7   | 5.2    | 5.2   |
| 90°    | 30.8  | 29.8  | 28.8  | 27.8  | 26.8  | 23.6  | 20.4  | 17.1  | 13.9  | 12.3   | 11.1  |
| 92.5°  | 35.9  | 34.2  | 32.5  | 30.7  | 29.0  | 26.8  | 24.6  | 22.3  | 20.1  | 19.0   | 19.7  |
| 95°    | 41.5  | 39.8  | 38.1  | 36.3  | 34.6  | 31.9  | 29.1  | 26.4  | 23.7  | 22.3   | 27.4  |
| 97.5°  | 43.7  | 41.7  | 39.7  | 37.7  | 35.7  | 48.4  | 61.0  | 73.7  | 86.4  | 92.7   | 96.2  |
| 100°   | 44.8  | 42.8  | 40.8  | 38.8  | 36.8  | 75.5  | 114.2 | 152.9 | 191.6 | 211.0  | 208.5 |
| 102.5° | 49.9  | 58.1  | 66.2  | 74.4  | 82.6  | 125.8 | 169.0 | 212.1 | 255.3 | 276.9  | 275.3 |
| 105°   | 68.9  | 112.8 | 156.7 | 200.6 | 244.5 | 266.8 | 289.2 | 311.5 | 333.8 | 345.0  | 343.6 |
| 107.5° | 281.5 | 319.7 | 357.9 | 396.1 | 434.3 | 430.6 | 426.8 | 423.1 | 419.4 | 417.5  | 416.4 |
| 110°   | 470.8 | 479.0 | 487.1 | 495.3 | 503.5 | 500.8 | 498.0 | 495.3 | 492.6 | 491.2  | 490.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 582.8  | 580.5  | 578.3  | 576.0  | 573.8  | 571.1  | 568.3  | 565.6  | 562.9  | 561.5  | 560.6  |
| 115°   | 650.8  | 648.3  | 645.8  | 643.3  | 640.8  | 638.6  | 636.4  | 634.1  | 631.9  | 630.8  | 630.1  |
| 117.5° | 714.6  | 712.6  | 710.7  | 708.7  | 706.7  | 705.5  | 704.2  | 703.0  | 701.7  | 701.1  | 700.2  |
| 120°   | 778.2  | 776.2  | 774.3  | 772.3  | 770.3  | 769.6  | 768.8  | 768.1  | 767.4  | 767.0  | 765.9  |
| 122.5° | 838.9  | 837.6  | 836.4  | 835.1  | 833.9  | 832.9  | 831.9  | 831.0  | 830.0  | 829.5  | 828.6  |
| 125°   | 895.1  | 894.6  | 894.1  | 893.6  | 893.1  | 892.1  | 891.1  | 890.1  | 889.1  | 888.6  | 887.6  |
| 127.5° | 955.2  | 954.5  | 953.8  | 953.0  | 952.3  | 951.1  | 949.8  | 948.6  | 947.3  | 946.7  | 945.7  |
| 130°   | 1008.7 | 1007.7 | 1006.8 | 1005.8 | 1004.8 | 1003.8 | 1002.8 | 1001.8 | 1000.8 | 1000.3 | 999.3  |
| 132.5° | 1059.0 | 1058.0 | 1057.0 | 1056.0 | 1055.0 | 1054.2 | 1053.5 | 1052.7 | 1052.0 | 1051.6 | 1050.6 |
| 135°   | 1109.3 | 1108.6 | 1107.8 | 1107.1 | 1106.3 | 1105.3 | 1104.3 | 1103.4 | 1102.4 | 1101.9 | 1101.2 |
| 137.5° | 1156.0 | 1154.7 | 1153.5 | 1152.2 | 1151.0 | 1150.5 | 1150.0 | 1149.5 | 1149.0 | 1148.8 | 1147.8 |
| 140°   | 1198.5 | 1197.5 | 1196.5 | 1195.5 | 1194.5 | 1193.8 | 1193.0 | 1192.3 | 1191.6 | 1191.2 | 1190.5 |
| 142.5° | 1238.8 | 1238.1 | 1237.3 | 1236.6 | 1235.8 | 1235.1 | 1234.3 | 1233.6 | 1232.9 | 1232.5 | 1231.8 |
| 145°   | 1275.8 | 1275.3 | 1274.8 | 1274.3 | 1273.8 | 1273.3 | 1272.8 | 1272.3 | 1271.8 | 1271.6 | 1270.7 |
| 147.5° | 1310.4 | 1309.9 | 1309.4 | 1308.9 | 1308.4 | 1307.9 | 1307.4 | 1306.9 | 1306.4 | 1306.2 | 1305.6 |
| 150°   | 1341.7 | 1341.2 | 1340.7 | 1340.2 | 1339.7 | 1339.2 | 1338.7 | 1338.2 | 1337.7 | 1337.4 | 1337.0 |
| 152.5° | 1370.4 | 1369.4 | 1368.5 | 1367.5 | 1366.5 | 1366.2 | 1366.0 | 1365.7 | 1365.4 | 1365.3 | 1365.2 |
| 155°   | 1396.0 | 1394.7 | 1393.5 | 1392.2 | 1391.0 | 1390.8 | 1390.5 | 1390.3 | 1390.0 | 1389.9 | 1390.1 |
| 157.5° | 1419.4 | 1417.9 | 1416.4 | 1414.9 | 1413.4 | 1413.6 | 1413.9 | 1414.1 | 1414.4 | 1414.5 | 1414.5 |
| 160°   | 1438.3 | 1436.8 | 1435.3 | 1433.8 | 1432.3 | 1432.5 | 1432.8 | 1433.0 | 1433.3 | 1433.4 | 1433.5 |
| 162.5° | 1456.0 | 1454.3 | 1452.6 | 1450.8 | 1449.1 | 1449.3 | 1449.6 | 1449.8 | 1450.1 | 1450.2 | 1450.6 |
| 165°   | 1471.5 | 1469.5 | 1467.6 | 1465.6 | 1463.6 | 1463.8 | 1464.1 | 1464.3 | 1464.6 | 1464.7 | 1465.1 |
| 167.5° | 1483.8 | 1481.8 | 1479.9 | 1477.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1475.9 | 1476.4 |
| 170°   | 1493.8 | 1491.8 | 1489.9 | 1487.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1485.9 | 1486.4 |
| 172.5° | 1500.5 | 1498.5 | 1496.6 | 1494.6 | 1492.6 | 1492.4 | 1492.1 | 1491.9 | 1491.6 | 1491.5 | 1492.1 |
| 175°   | 1505.1 | 1503.4 | 1501.7 | 1499.9 | 1498.2 | 1498.0 | 1497.7 | 1497.5 | 1497.2 | 1497.1 | 1497.7 |
| 177.5° | 1508.4 | 1506.4 | 1504.4 | 1502.4 | 1500.4 | 1500.2 | 1499.9 | 1499.7 | 1499.4 | 1499.3 | 1499.9 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 449.9 | 449.9 | 449.9 | 449.9 |
| 2.5°   | 440.4 | 441.7 | 446.0 | 451.3 |
| 5°     | 431.6 | 435.1 | 441.2 | 449.5 |
| 7.5°   | 422.0 | 427.3 | 436.0 | 446.5 |
| 10°    | 411.1 | 418.6 | 429.5 | 442.5 |
| 12.5°  | 399.4 | 409.0 | 422.9 | 436.4 |
| 15°    | 392.0 | 401.5 | 414.2 | 429.0 |
| 17.5°  | 377.6 | 388.9 | 402.0 | 422.9 |
| 20°    | 362.7 | 375.4 | 392.4 | 413.3 |
| 22.5°  | 351.4 | 364.9 | 381.1 | 403.3 |
| 25°    | 337.9 | 351.8 | 369.3 | 392.4 |
| 27.5°  | 323.5 | 337.5 | 357.1 | 381.5 |
| 30°    | 312.6 | 326.1 | 344.9 | 371.0 |
| 32.5°  | 299.5 | 312.6 | 332.2 | 359.7 |
| 35°    | 284.7 | 299.5 | 318.3 | 346.2 |
| 37.5°  | 273.4 | 286.9 | 306.5 | 333.1 |
| 40°    | 261.2 | 272.9 | 292.1 | 318.3 |
| 42.5°  | 248.1 | 261.2 | 277.7 | 303.9 |
| 45°    | 235.9 | 245.5 | 262.5 | 287.3 |
| 47.5°  | 222.8 | 233.7 | 246.8 | 266.0 |
| 50°    | 208.8 | 218.0 | 232.4 | 245.5 |
| 52.5°  | 195.3 | 202.7 | 214.9 | 225.0 |
| 55°    | 180.9 | 188.3 | 197.5 | 203.6 |
| 57.5°  | 167.4 | 172.7 | 178.8 | 182.7 |
| 60°    | 150.9 | 156.1 | 160.0 | 163.9 |
| 62.5°  | 136.0 | 140.0 | 142.1 | 144.3 |
| 65°    | 120.8 | 122.9 | 124.3 | 126.0 |
| 67.5°  | 104.2 | 106.4 | 106.8 | 109.4 |
| 70°    | 88.9  | 89.4  | 90.3  | 91.6  |
| 72.5°  | 74.6  | 75.4  | 75.0  | 75.9  |
| 75°    | 59.7  | 60.6  | 59.7  | 60.6  |
| 77.5°  | 45.3  | 46.2  | 46.2  | 47.5  |
| 80°    | 32.7  | 33.1  | 33.6  | 33.6  |
| 82.5°  | 21.4  | 22.7  | 21.8  | 22.2  |
| 85°    | 12.2  | 12.6  | 12.6  | 13.1  |
| 87.5°  | 5.7   | 6.1   | 5.7   | 6.5   |
| 90°    | 8.6   | 6.1   | 3.6   | 1.1   |
| 92.5°  | 21.2  | 22.7  | 24.2  | 25.7  |
| 95°    | 37.6  | 47.7  | 57.9  | 68.1  |
| 97.5°  | 103.1 | 110.0 | 117.0 | 123.9 |
| 100°   | 203.6 | 198.6 | 193.7 | 188.7 |
| 102.5° | 272.1 | 268.8 | 265.6 | 262.4 |
| 105°   | 340.9 | 338.2 | 335.4 | 332.7 |
| 107.5° | 414.2 | 411.9 | 409.7 | 407.5 |
| 110°   | 488.2 | 486.3 | 484.3 | 482.3 |



TEST NUMBER: P1010563

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 558.9  | 557.2  | 555.4  | 553.7  |
| 115°   | 628.6  | 627.1  | 625.6  | 624.1  |
| 117.5° | 698.5  | 696.8  | 695.0  | 693.3  |
| 120°   | 763.6  | 761.4  | 759.1  | 756.9  |
| 122.5° | 826.9  | 825.2  | 823.4  | 821.7  |
| 125°   | 885.6  | 883.7  | 881.7  | 879.7  |
| 127.5° | 943.7  | 941.8  | 939.8  | 937.8  |
| 130°   | 997.3  | 995.4  | 993.4  | 991.4  |
| 132.5° | 1048.6 | 1046.7 | 1044.7 | 1042.7 |
| 135°   | 1099.7 | 1098.2 | 1096.7 | 1095.2 |
| 137.5° | 1145.8 | 1143.8 | 1141.8 | 1139.8 |
| 140°   | 1189.0 | 1187.5 | 1186.0 | 1184.5 |
| 142.5° | 1230.3 | 1228.8 | 1227.3 | 1225.8 |
| 145°   | 1269.0 | 1267.3 | 1265.5 | 1263.8 |
| 147.5° | 1304.3 | 1303.1 | 1301.8 | 1300.6 |
| 150°   | 1336.3 | 1335.6 | 1334.8 | 1334.1 |
| 152.5° | 1364.9 | 1364.7 | 1364.4 | 1364.2 |
| 155°   | 1390.6 | 1391.1 | 1391.6 | 1392.1 |
| 157.5° | 1414.5 | 1414.5 | 1414.5 | 1414.5 |
| 160°   | 1433.8 | 1434.1 | 1434.3 | 1434.6 |
| 162.5° | 1451.3 | 1452.0 | 1452.8 | 1453.5 |
| 165°   | 1465.8 | 1466.6 | 1467.3 | 1468.1 |
| 167.5° | 1477.4 | 1478.3 | 1479.3 | 1480.3 |
| 170°   | 1487.4 | 1488.4 | 1489.4 | 1490.4 |
| 172.5° | 1493.4 | 1494.6 | 1495.9 | 1497.1 |
| 175°   | 1499.0 | 1500.2 | 1501.5 | 1502.7 |
| 177.5° | 1501.2 | 1502.4 | 1503.7 | 1504.9 |
| 180°   | 1502.7 | 1502.7 | 1502.7 | 1502.7 |

(END OF REPORT)