

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: P1010560

Luminaire Tested: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010560  
REPORT IS A COMBINATION OF REPORTS P989689 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\_3000K  
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

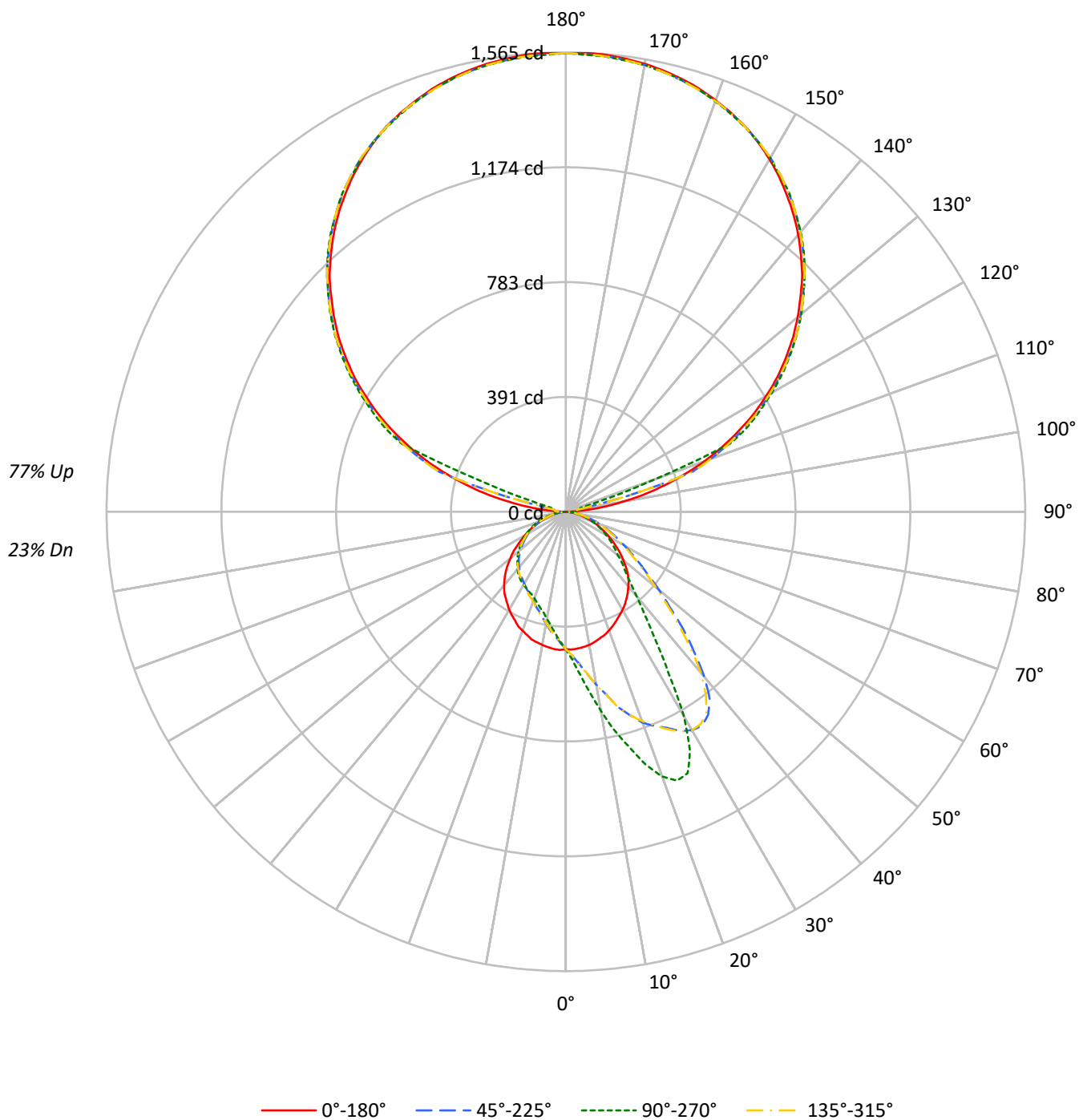
Lumens per Lamp: N/A  
Luminaire Lumens: 6180.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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: P1010560

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1010560

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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   | 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°  | 5040 | 5040 | 5040 | 5040 |
| 5°  | 5042 | 5807 | 5058 | 4334 |
| 10° | 5011 | 7026 | 5016 | 3784 |
| 15° | 4941 | 8333 | 4981 | 3406 |
| 20° | 4882 | 9594 | 4892 | 3135 |
| 25° | 4793 | 9835 | 4804 | 2993 |
| 30° | 4731 | 8126 | 4731 | 2900 |
| 35° | 4652 | 5434 | 4622 | 2818 |
| 40° | 4558 | 3923 | 4502 | 2692 |
| 45° | 4441 | 3108 | 4311 | 2536 |
| 50° | 4153 | 2639 | 4005 | 2381 |
| 55° | 3839 | 2319 | 3682 | 2211 |
| 60° | 3520 | 2019 | 3332 | 2031 |
| 65° | 3169 | 1729 | 3017 | 1792 |
| 70° | 2806 | 1435 | 2618 | 1510 |
| 75° | 2400 | 1083 | 2244 | 1166 |
| 80° | 1895 | 723  | 1748 | 766  |
| 85° | 1306 | 332  | 1047 | 301  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 8127 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.0   | 0.7       |
| 10°-20°   | 147.9  | 2.4       |
| 20°-30°   | 248.8  | 4.0       |
| 30°-40°   | 281.2  | 4.6       |
| 40°-50°   | 251.9  | 4.1       |
| 50°-60°   | 203.3  | 3.3       |
| 60°-70°   | 141.7  | 2.3       |
| 70°-80°   | 74.4   | 1.2       |
| 80°-90°   | 21.0   | 0.3       |
| 90°-100°  | 55.1   | 0.9       |
| 100°-110° | 266.4  | 4.3       |
| 110°-120° | 652.9  | 10.6      |
| 120°-130° | 828.8  | 13.4      |
| 130°-140° | 885.4  | 14.3      |
| 140°-150° | 827.9  | 13.4      |
| 150°-160° | 667.8  | 10.8      |
| 160°-170° | 431.0  | 7.0       |
| 170°-180° | 148.5  | 2.4       |
| 0°-30°    | 442.8  | 7.2       |
| 0°-40°    | 724.0  | 11.7      |
| 0°-60°    | 1179.1 | 19.1      |
| 0°-90°    | 1416.1 | 22.9      |
| 90°-120°  | 974.4  | 15.8      |
| 90°-150°  | 3516.6 | 56.9      |
| 90°-180°  | 4764.0 | 77.1      |
| 0°-180°   | 6180.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 468  | 468  | 468  | 468  | 468  |      |
| 5°   | 468  | 556  | 469  | 415  | 468  | 44   |
| 15°  | 446  | 828  | 450  | 338  | 446  | 126  |
| 25°  | 408  | 983  | 409  | 299  | 408  | 188  |
| 35°  | 360  | 529  | 358  | 274  | 360  | 225  |
| 45°  | 299  | 286  | 290  | 233  | 299  | 229  |
| 55°  | 212  | 194  | 203  | 185  | 212  | 190  |
| 65°  | 131  | 126  | 125  | 131  | 131  | 131  |
| 75°  | 63   | 65   | 59   | 70   | 63   | 68   |
| 85°  | 14   | 15   | 11   | 14   | 14   | 16   |
| 90°  | 1    | 35   | 1    | 35   | 1    | 5    |
| 95°  | 71   | 44   | 71   | 44   | 71   | 85   |
| 105° | 346  | 51   | 346  | 51   | 346  | 367  |
| 115° | 649  | 683  | 649  | 683  | 649  | 641  |
| 125° | 915  | 933  | 915  | 933  | 915  | 817  |
| 135° | 1139 | 1150 | 1139 | 1150 | 1139 | 877  |
| 145° | 1314 | 1327 | 1314 | 1327 | 1314 | 823  |
| 155° | 1448 | 1445 | 1448 | 1445 | 1448 | 667  |
| 165° | 1527 | 1523 | 1527 | 1523 | 1527 | 431  |
| 175° | 1563 | 1557 | 1563 | 1557 | 1563 | 149  |
| 180° | 1563 | 1563 | 1563 | 1563 | 1563 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 |
| 2.5°   | 469.5 | 473.2 | 475.0 | 477.7 | 480.4 | 484.5 | 485.9 | 488.1 | 487.2 | 489.0 | 489.9 |
| 5°     | 467.7 | 474.1 | 479.5 | 486.3 | 492.7 | 497.2 | 501.7 | 509.0 | 514.4 | 515.3 | 519.4 |
| 7.5°   | 464.5 | 473.6 | 483.1 | 492.7 | 504.9 | 512.2 | 520.3 | 530.3 | 538.5 | 551.6 | 556.6 |
| 10°    | 460.5 | 473.2 | 486.8 | 499.9 | 516.7 | 528.0 | 538.0 | 554.8 | 571.6 | 585.2 | 597.9 |
| 12.5°  | 454.1 | 470.0 | 487.7 | 507.2 | 529.0 | 542.1 | 555.7 | 577.9 | 603.4 | 624.2 | 637.8 |
| 15°    | 446.4 | 466.4 | 489.0 | 509.9 | 533.9 | 558.4 | 573.0 | 597.9 | 634.2 | 653.7 | 688.6 |
| 17.5°  | 440.0 | 460.5 | 483.1 | 515.8 | 548.5 | 573.0 | 583.4 | 629.2 | 654.2 | 686.8 | 726.3 |
| 20°    | 430.1 | 455.9 | 485.0 | 517.6 | 559.8 | 574.8 | 596.1 | 642.4 | 673.2 | 715.9 | 764.4 |
| 22.5°  | 419.6 | 447.3 | 482.2 | 516.3 | 563.4 | 579.3 | 608.3 | 645.1 | 694.1 | 736.3 | 789.8 |
| 25°    | 408.3 | 438.2 | 473.6 | 514.0 | 560.3 | 583.4 | 610.6 | 656.0 | 709.1 | 762.1 | 811.6 |
| 27.5°  | 396.9 | 429.6 | 466.4 | 506.7 | 551.6 | 578.9 | 606.1 | 653.3 | 721.3 | 778.9 | 842.0 |
| 30°    | 386.1 | 418.7 | 455.5 | 496.7 | 543.9 | 570.2 | 596.1 | 655.1 | 730.8 | 795.7 | 859.2 |
| 32.5°  | 374.3 | 407.8 | 446.4 | 480.9 | 528.5 | 556.6 | 585.7 | 655.1 | 736.7 | 805.7 | 863.7 |
| 35°    | 360.2 | 394.7 | 427.8 | 462.3 | 509.4 | 540.7 | 573.4 | 650.5 | 742.2 | 808.9 | 844.7 |
| 37.5°  | 346.6 | 377.0 | 405.6 | 439.1 | 488.6 | 522.2 | 559.8 | 645.1 | 739.4 | 795.2 | 805.2 |
| 40°    | 331.2 | 361.6 | 384.7 | 416.0 | 468.2 | 507.2 | 545.3 | 637.8 | 727.7 | 763.0 | 734.0 |
| 42.5°  | 316.2 | 340.2 | 360.2 | 390.6 | 447.3 | 485.4 | 526.7 | 624.7 | 704.5 | 711.8 | 646.5 |
| 45°    | 299.0 | 316.2 | 333.9 | 368.4 | 424.6 | 463.6 | 509.4 | 605.6 | 667.3 | 646.5 | 563.9 |
| 47.5°  | 276.7 | 292.2 | 311.7 | 343.4 | 400.6 | 440.9 | 484.5 | 581.1 | 613.3 | 569.8 | 479.5 |
| 50°    | 255.4 | 268.6 | 286.7 | 317.6 | 375.2 | 414.6 | 460.9 | 542.6 | 558.4 | 489.9 | 413.3 |
| 52.5°  | 234.1 | 244.1 | 261.8 | 292.6 | 350.2 | 388.3 | 430.5 | 503.1 | 494.0 | 420.5 | 352.5 |
| 55°    | 211.9 | 220.5 | 237.3 | 267.7 | 321.2 | 357.5 | 397.9 | 454.6 | 431.0 | 361.1 | 306.7 |
| 57.5°  | 190.1 | 199.2 | 216.4 | 241.8 | 292.2 | 327.5 | 359.7 | 404.2 | 368.8 | 313.0 | 264.9 |
| 60°    | 170.6 | 178.3 | 191.4 | 216.4 | 262.2 | 290.8 | 320.3 | 350.7 | 321.2 | 267.2 | 230.5 |
| 62.5°  | 150.2 | 157.4 | 169.7 | 192.3 | 231.8 | 257.2 | 280.8 | 305.8 | 273.1 | 233.6 | 201.0 |
| 65°    | 131.1 | 137.0 | 148.3 | 169.2 | 201.4 | 222.3 | 241.3 | 258.6 | 232.3 | 196.0 | 171.5 |
| 67.5°  | 113.9 | 118.9 | 128.4 | 147.0 | 174.2 | 189.2 | 204.6 | 219.1 | 196.9 | 167.9 | 147.0 |
| 70°    | 95.3  | 99.3  | 108.0 | 121.6 | 143.4 | 158.8 | 170.1 | 181.0 | 161.0 | 137.9 | 123.8 |
| 72.5°  | 78.9  | 83.0  | 88.5  | 102.5 | 117.5 | 127.0 | 139.3 | 145.2 | 133.8 | 114.8 | 100.7 |
| 75°    | 63.1  | 66.2  | 71.2  | 80.3  | 94.4  | 100.7 | 108.4 | 113.0 | 102.5 | 89.8  | 81.2  |
| 77.5°  | 49.4  | 50.8  | 54.4  | 60.8  | 70.3  | 77.6  | 83.5  | 86.2  | 78.9  | 70.8  | 63.5  |
| 80°    | 34.9  | 36.7  | 39.5  | 44.9  | 52.2  | 54.4  | 58.1  | 61.2  | 56.7  | 49.4  | 44.9  |
| 82.5°  | 23.1  | 25.4  | 26.8  | 29.0  | 33.6  | 36.3  | 37.2  | 39.9  | 35.8  | 33.1  | 31.3  |
| 85°    | 13.6  | 14.5  | 15.0  | 16.3  | 18.6  | 20.0  | 21.3  | 21.8  | 20.9  | 20.4  | 18.6  |
| 87.5°  | 6.8   | 6.8   | 6.8   | 7.7   | 8.2   | 9.1   | 9.5   | 9.5   | 9.5   | 9.1   | 8.6   |
| 90°    | 1.2   | 3.8   | 6.4   | 8.9   | 11.5  | 12.8  | 14.5  | 17.8  | 21.2  | 24.5  | 27.9  |
| 92.5°  | 26.7  | 25.1  | 23.6  | 22.0  | 20.5  | 19.7  | 20.9  | 23.2  | 25.5  | 27.9  | 30.2  |
| 95°    | 70.8  | 60.2  | 49.6  | 39.1  | 28.5  | 23.2  | 24.6  | 27.5  | 30.3  | 33.2  | 36.0  |
| 97.5°  | 128.9 | 121.7 | 114.5 | 107.2 | 100.0 | 96.4  | 89.8  | 76.7  | 63.5  | 50.4  | 37.2  |
| 100°   | 196.2 | 201.4 | 206.5 | 211.7 | 216.8 | 219.4 | 199.3 | 159.0 | 118.8 | 78.5  | 38.3  |
| 102.5° | 272.8 | 276.2 | 279.5 | 282.9 | 286.2 | 287.9 | 265.5 | 220.6 | 175.7 | 130.8 | 85.9  |
| 105°   | 346.0 | 348.8 | 351.6 | 354.5 | 357.3 | 358.7 | 347.1 | 323.9 | 300.7 | 277.5 | 254.3 |
| 107.5° | 423.8 | 426.1 | 428.4 | 430.7 | 433.0 | 434.2 | 436.1 | 440.0 | 443.9 | 447.7 | 451.6 |
| 110°   | 501.5 | 503.6 | 505.6 | 507.7 | 509.8 | 510.8 | 512.2 | 515.1 | 517.9 | 520.8 | 523.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 575.8  | 577.6  | 579.4  | 581.3  | 583.1  | 584.0  | 585.4  | 588.2  | 591.1  | 593.9  | 596.7  |
| 115°   | 649.0  | 650.5  | 652.1  | 653.6  | 655.1  | 655.9  | 657.1  | 659.4  | 661.7  | 664.1  | 666.4  |
| 117.5° | 721.0  | 722.8  | 724.6  | 726.4  | 728.2  | 729.1  | 729.7  | 731.0  | 732.3  | 733.6  | 734.9  |
| 120°   | 787.1  | 789.4  | 791.8  | 794.1  | 796.4  | 797.6  | 798.0  | 798.8  | 799.5  | 800.3  | 801.1  |
| 122.5° | 854.5  | 856.3  | 858.1  | 859.9  | 861.7  | 862.6  | 863.1  | 864.1  | 865.2  | 866.2  | 867.2  |
| 125°   | 914.8  | 916.9  | 918.9  | 921.0  | 923.1  | 924.1  | 924.6  | 925.7  | 926.7  | 927.8  | 928.8  |
| 127.5° | 975.2  | 977.3  | 979.3  | 981.4  | 983.5  | 984.5  | 985.1  | 986.4  | 987.7  | 989.0  | 990.3  |
| 130°   | 1030.9 | 1033.0 | 1035.0 | 1037.1 | 1039.2 | 1040.2 | 1040.7 | 1041.8 | 1042.8 | 1043.9 | 1044.9 |
| 132.5° | 1084.3 | 1086.4 | 1088.4 | 1090.5 | 1092.6 | 1093.6 | 1094.0 | 1094.8 | 1095.5 | 1096.3 | 1097.1 |
| 135°   | 1138.9 | 1140.5 | 1142.0 | 1143.6 | 1145.1 | 1145.9 | 1146.4 | 1147.4 | 1148.5 | 1149.5 | 1150.5 |
| 137.5° | 1185.3 | 1187.4 | 1189.4 | 1191.5 | 1193.6 | 1194.6 | 1194.9 | 1195.4 | 1195.9 | 1196.5 | 1197.0 |
| 140°   | 1231.8 | 1233.3 | 1234.9 | 1236.4 | 1237.9 | 1238.7 | 1239.1 | 1239.9 | 1240.6 | 1241.4 | 1242.2 |
| 142.5° | 1274.7 | 1276.3 | 1277.8 | 1279.4 | 1280.9 | 1281.7 | 1282.1 | 1282.9 | 1283.6 | 1284.4 | 1285.2 |
| 145°   | 1314.2 | 1316.0 | 1317.8 | 1319.6 | 1321.4 | 1322.3 | 1322.6 | 1323.1 | 1323.6 | 1324.2 | 1324.7 |
| 147.5° | 1352.5 | 1353.8 | 1355.1 | 1356.4 | 1357.7 | 1358.3 | 1358.6 | 1359.1 | 1359.6 | 1360.1 | 1360.6 |
| 150°   | 1387.3 | 1388.1 | 1388.9 | 1389.6 | 1390.4 | 1390.8 | 1391.1 | 1391.6 | 1392.1 | 1392.7 | 1393.2 |
| 152.5° | 1418.7 | 1419.0 | 1419.2 | 1419.5 | 1419.8 | 1419.9 | 1420.0 | 1420.3 | 1420.5 | 1420.8 | 1421.0 |
| 155°   | 1447.7 | 1447.2 | 1446.7 | 1446.2 | 1445.7 | 1445.4 | 1445.5 | 1445.8 | 1446.1 | 1446.3 | 1446.6 |
| 157.5° | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.8 | 1470.5 | 1470.3 | 1470.0 | 1469.8 |
| 160°   | 1491.8 | 1491.6 | 1491.3 | 1491.1 | 1490.8 | 1490.7 | 1490.6 | 1490.3 | 1490.0 | 1489.8 | 1489.5 |
| 162.5° | 1511.6 | 1510.8 | 1510.0 | 1509.3 | 1508.5 | 1508.1 | 1508.0 | 1507.7 | 1507.4 | 1507.2 | 1506.9 |
| 165°   | 1526.7 | 1525.9 | 1525.1 | 1524.4 | 1523.6 | 1523.2 | 1523.1 | 1522.8 | 1522.5 | 1522.3 | 1522.0 |
| 167.5° | 1539.4 | 1538.4 | 1537.4 | 1536.3 | 1535.3 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 |
| 170°   | 1549.9 | 1548.9 | 1547.8 | 1546.8 | 1545.7 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.2 |
| 172.5° | 1556.8 | 1555.5 | 1554.2 | 1552.9 | 1551.6 | 1551.0 | 1551.1 | 1551.4 | 1551.7 | 1551.9 | 1552.2 |
| 175°   | 1562.7 | 1561.4 | 1560.1 | 1558.8 | 1557.5 | 1556.8 | 1556.9 | 1557.2 | 1557.5 | 1557.7 | 1558.0 |
| 177.5° | 1565.0 | 1563.7 | 1562.4 | 1561.1 | 1559.8 | 1559.2 | 1559.3 | 1559.6 | 1559.8 | 1560.1 | 1560.3 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 |
| 2.5°   | 493.1 | 494.0 | 497.2 | 499.5 | 504.0 | 503.6 | 503.6 | 503.1 | 501.7 | 504.0 | 505.4 |
| 5°     | 527.6 | 535.3 | 536.2 | 546.2 | 546.6 | 550.7 | 553.5 | 551.2 | 556.6 | 556.2 | 552.1 |
| 7.5°   | 570.2 | 580.7 | 585.7 | 595.2 | 606.1 | 603.4 | 613.8 | 615.6 | 614.7 | 619.2 | 622.4 |
| 10°    | 617.0 | 635.1 | 647.8 | 665.5 | 670.0 | 672.8 | 679.6 | 685.5 | 697.3 | 688.2 | 694.1 |
| 12.5°  | 670.5 | 683.6 | 700.4 | 728.6 | 742.6 | 751.7 | 754.9 | 759.0 | 767.1 | 762.1 | 762.6 |
| 15°    | 715.4 | 733.1 | 761.7 | 796.6 | 800.7 | 812.0 | 809.3 | 833.8 | 845.6 | 827.9 | 837.9 |
| 17.5°  | 762.1 | 785.7 | 819.7 | 850.1 | 867.4 | 875.1 | 882.3 | 905.9 | 905.0 | 902.3 | 904.6 |
| 20°    | 792.1 | 830.6 | 872.8 | 913.2 | 918.2 | 924.1 | 943.6 | 953.6 | 951.8 | 959.5 | 964.5 |
| 22.5°  | 834.3 | 875.1 | 920.0 | 946.8 | 958.1 | 964.9 | 980.3 | 986.7 | 989.4 | 991.2 | 988.0 |
| 25°    | 869.6 | 913.2 | 946.3 | 969.9 | 976.7 | 980.3 | 985.3 | 987.1 | 985.8 | 982.6 | 985.3 |
| 27.5°  | 893.7 | 928.6 | 951.3 | 962.2 | 958.6 | 952.7 | 943.1 | 936.8 | 922.7 | 915.9 | 924.1 |
| 30°    | 903.7 | 919.1 | 925.9 | 907.8 | 889.6 | 875.1 | 856.9 | 823.4 | 797.1 | 804.8 | 794.3 |
| 32.5°  | 887.8 | 877.8 | 845.1 | 798.4 | 784.4 | 760.8 | 709.5 | 670.0 | 671.4 | 650.5 | 659.2 |
| 35°    | 841.1 | 795.7 | 734.0 | 663.2 | 644.6 | 631.9 | 575.7 | 567.1 | 548.9 | 529.4 | 534.9 |
| 37.5°  | 758.5 | 692.3 | 617.4 | 565.2 | 537.6 | 509.9 | 478.1 | 459.1 | 448.2 | 440.0 | 446.4 |
| 40°    | 657.8 | 577.0 | 515.3 | 468.6 | 445.0 | 427.3 | 405.6 | 386.5 | 374.3 | 372.9 | 375.2 |
| 42.5°  | 558.9 | 490.8 | 434.1 | 389.7 | 382.0 | 361.1 | 347.0 | 332.1 | 328.4 | 322.5 | 325.7 |
| 45°    | 473.2 | 417.8 | 371.1 | 334.8 | 325.7 | 320.3 | 303.0 | 293.5 | 289.4 | 285.8 | 291.2 |
| 47.5°  | 411.0 | 352.9 | 318.9 | 297.1 | 288.1 | 279.0 | 269.5 | 263.1 | 259.9 | 260.4 | 259.9 |
| 50°    | 351.1 | 308.5 | 278.5 | 261.8 | 256.3 | 250.0 | 242.2 | 238.2 | 236.8 | 232.7 | 235.9 |
| 52.5°  | 302.1 | 271.3 | 250.4 | 234.5 | 230.5 | 225.9 | 219.6 | 217.3 | 214.1 | 213.2 | 213.2 |
| 55°    | 262.7 | 238.6 | 221.8 | 211.4 | 206.4 | 202.8 | 199.2 | 196.4 | 194.2 | 194.2 | 194.2 |
| 57.5°  | 231.8 | 210.9 | 198.7 | 189.6 | 187.8 | 184.2 | 180.1 | 180.1 | 176.9 | 176.5 | 177.8 |
| 60°    | 205.5 | 186.9 | 177.4 | 169.7 | 166.9 | 166.0 | 162.0 | 162.0 | 161.0 | 158.8 | 160.6 |
| 62.5°  | 178.7 | 165.1 | 157.0 | 151.1 | 148.3 | 148.3 | 145.2 | 142.9 | 142.9 | 143.4 | 142.4 |
| 65°    | 154.2 | 144.3 | 137.0 | 132.5 | 131.1 | 129.3 | 128.8 | 127.0 | 125.7 | 126.1 | 125.7 |
| 67.5°  | 132.5 | 124.8 | 119.8 | 116.1 | 113.9 | 113.0 | 111.6 | 111.6 | 110.7 | 111.1 | 108.9 |
| 70°    | 113.0 | 105.2 | 101.2 | 97.5  | 96.6  | 96.6  | 94.8  | 95.3  | 94.4  | 95.7  | 94.8  |
| 72.5°  | 93.0  | 87.1  | 83.9  | 82.6  | 81.7  | 81.2  | 80.3  | 79.4  | 78.9  | 79.8  | 79.4  |
| 75°    | 75.3  | 70.3  | 68.0  | 67.1  | 66.2  | 66.2  | 65.8  | 65.3  | 64.9  | 64.9  | 64.9  |
| 77.5°  | 58.5  | 55.3  | 52.6  | 53.5  | 52.2  | 52.6  | 51.3  | 51.3  | 51.7  | 51.3  | 51.3  |
| 80°    | 43.1  | 40.8  | 40.8  | 39.9  | 38.1  | 39.0  | 39.0  | 37.7  | 37.2  | 38.1  | 36.7  |
| 82.5°  | 28.6  | 28.1  | 27.2  | 26.8  | 25.9  | 26.3  | 25.9  | 25.4  | 25.0  | 25.9  | 25.0  |
| 85°    | 16.8  | 16.8  | 16.3  | 15.4  | 16.3  | 15.9  | 15.4  | 15.4  | 15.0  | 15.0  | 15.0  |
| 87.5°  | 8.6   | 7.7   | 7.7   | 7.3   | 7.7   | 6.8   | 7.3   | 6.8   | 6.4   | 6.8   | 6.4   |
| 90°    | 28.9  | 29.9  | 31.0  | 32.0  | 32.5  | 32.8  | 33.3  | 33.8  | 34.3  | 34.8  | 34.3  |
| 92.5°  | 32.0  | 33.8  | 35.6  | 37.4  | 38.3  | 38.4  | 38.7  | 39.0  | 39.2  | 39.5  | 39.2  |
| 95°    | 37.8  | 39.6  | 41.4  | 43.2  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  |
| 97.5°  | 39.2  | 41.3  | 43.3  | 45.4  | 46.4  | 46.5  | 46.8  | 47.1  | 47.3  | 47.6  | 47.3  |
| 100°   | 40.4  | 42.4  | 44.5  | 46.6  | 47.6  | 47.7  | 48.0  | 48.3  | 48.5  | 48.8  | 48.5  |
| 102.5° | 77.4  | 68.9  | 60.4  | 51.9  | 47.6  | 47.9  | 48.4  | 48.9  | 49.4  | 49.9  | 49.4  |
| 105°   | 208.6 | 163.0 | 117.3 | 71.6  | 48.8  | 49.1  | 49.6  | 50.1  | 50.6  | 51.1  | 50.6  |
| 107.5° | 411.9 | 372.1 | 332.4 | 292.7 | 272.8 | 255.9 | 222.1 | 188.3 | 154.5 | 120.7 | 154.5 |
| 110°   | 515.1 | 506.6 | 498.1 | 489.6 | 485.3 | 466.9 | 430.0 | 393.1 | 356.2 | 319.3 | 356.2 |



TEST NUMBER: P1010560

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 599.0  | 601.4  | 603.7  | 606.0  | 607.2  | 606.9  | 606.4  | 605.9  | 605.4  | 604.9  | 605.4  |
| 115°   | 669.0  | 671.6  | 674.1  | 676.7  | 678.0  | 678.5  | 679.5  | 680.6  | 681.6  | 682.6  | 681.6  |
| 117.5° | 737.0  | 739.0  | 741.1  | 743.2  | 744.2  | 744.3  | 744.6  | 744.8  | 745.1  | 745.3  | 745.1  |
| 120°   | 803.2  | 805.2  | 807.3  | 809.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  |
| 122.5° | 868.5  | 869.8  | 871.1  | 872.4  | 873.0  | 873.1  | 873.4  | 873.7  | 873.9  | 874.2  | 873.9  |
| 125°   | 929.3  | 929.8  | 930.3  | 930.8  | 931.1  | 931.4  | 931.9  | 932.4  | 932.9  | 933.4  | 932.9  |
| 127.5° | 991.1  | 991.9  | 992.6  | 993.4  | 993.8  | 993.5  | 993.0  | 992.5  | 992.0  | 991.5  | 992.0  |
| 130°   | 1045.9 | 1046.9 | 1048.0 | 1049.0 | 1049.5 | 1049.2 | 1048.7 | 1048.2 | 1047.7 | 1047.2 | 1047.7 |
| 132.5° | 1098.1 | 1099.2 | 1100.2 | 1101.3 | 1101.8 | 1101.4 | 1100.6 | 1099.9 | 1099.1 | 1098.3 | 1099.1 |
| 135°   | 1151.3 | 1152.1 | 1152.8 | 1153.6 | 1154.0 | 1153.6 | 1152.8 | 1152.1 | 1151.3 | 1150.5 | 1151.3 |
| 137.5° | 1198.3 | 1199.6 | 1200.9 | 1202.2 | 1202.8 | 1202.5 | 1202.0 | 1201.5 | 1200.9 | 1200.4 | 1200.9 |
| 140°   | 1243.2 | 1244.3 | 1245.3 | 1246.4 | 1246.9 | 1246.6 | 1246.1 | 1245.6 | 1245.0 | 1244.5 | 1245.0 |
| 142.5° | 1286.0 | 1286.8 | 1287.5 | 1288.3 | 1288.7 | 1288.3 | 1287.5 | 1286.8 | 1286.0 | 1285.2 | 1286.0 |
| 145°   | 1325.2 | 1325.7 | 1326.2 | 1326.7 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 147.5° | 1361.1 | 1361.7 | 1362.2 | 1362.7 | 1363.0 | 1362.4 | 1361.1 | 1359.8 | 1358.5 | 1357.2 | 1358.5 |
| 150°   | 1393.7 | 1394.2 | 1394.7 | 1395.2 | 1395.5 | 1395.1 | 1394.3 | 1393.6 | 1392.8 | 1392.0 | 1392.8 |
| 152.5° | 1422.0 | 1423.1 | 1424.1 | 1425.2 | 1425.7 | 1425.1 | 1423.8 | 1422.5 | 1421.2 | 1419.9 | 1421.2 |
| 155°   | 1447.9 | 1449.2 | 1450.5 | 1451.8 | 1452.4 | 1451.6 | 1450.1 | 1448.5 | 1447.0 | 1445.4 | 1447.0 |
| 157.5° | 1471.3 | 1472.9 | 1474.4 | 1475.9 | 1476.7 | 1475.7 | 1473.6 | 1471.6 | 1469.5 | 1467.5 | 1469.5 |
| 160°   | 1491.1 | 1492.6 | 1494.2 | 1495.7 | 1496.5 | 1495.6 | 1493.8 | 1492.0 | 1490.2 | 1488.4 | 1490.2 |
| 162.5° | 1508.7 | 1510.5 | 1512.4 | 1514.2 | 1515.1 | 1514.3 | 1512.8 | 1511.2 | 1509.7 | 1508.1 | 1509.7 |
| 165°   | 1524.1 | 1526.1 | 1528.2 | 1530.3 | 1531.3 | 1530.4 | 1528.6 | 1526.8 | 1525.0 | 1523.2 | 1525.0 |
| 167.5° | 1536.9 | 1538.9 | 1541.0 | 1543.1 | 1544.1 | 1543.1 | 1541.0 | 1538.9 | 1536.9 | 1534.8 | 1536.9 |
| 170°   | 1547.3 | 1549.3 | 1551.4 | 1553.5 | 1554.5 | 1553.5 | 1551.4 | 1549.3 | 1547.3 | 1545.2 | 1547.3 |
| 172.5° | 1554.3 | 1556.3 | 1558.4 | 1560.5 | 1561.5 | 1560.3 | 1558.0 | 1555.7 | 1553.3 | 1551.0 | 1553.3 |
| 175°   | 1559.8 | 1561.6 | 1563.4 | 1565.2 | 1566.1 | 1565.1 | 1563.0 | 1560.9 | 1558.9 | 1556.8 | 1558.9 |
| 177.5° | 1562.4 | 1564.4 | 1566.5 | 1568.6 | 1569.6 | 1568.3 | 1565.7 | 1563.2 | 1560.6 | 1558.0 | 1560.6 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

TEST NUMBER: P1010560

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**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 468.2 | 468.2 | 468.2 | 468.2  | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 |
| 2.5°   | 501.7 | 503.1 | 499.5 | 498.6  | 498.6 | 500.4 | 499.0 | 486.8 | 489.0 | 486.3 | 485.4 |
| 5°     | 557.1 | 554.4 | 550.7 | 548.9  | 546.6 | 540.3 | 539.8 | 525.8 | 523.1 | 514.0 | 509.9 |
| 7.5°   | 617.9 | 615.6 | 604.7 | 603.4  | 602.4 | 596.5 | 581.6 | 566.6 | 555.7 | 545.3 | 535.3 |
| 10°    | 687.3 | 680.5 | 675.5 | 665.5  | 660.5 | 652.3 | 632.8 | 618.8 | 600.2 | 584.3 | 563.4 |
| 12.5°  | 770.7 | 763.0 | 746.3 | 739.0  | 732.6 | 710.0 | 690.5 | 674.6 | 638.3 | 627.4 | 601.5 |
| 15°    | 832.0 | 815.7 | 813.8 | 798.0  | 797.1 | 772.1 | 734.9 | 717.7 | 689.5 | 649.6 | 622.9 |
| 17.5°  | 898.2 | 883.7 | 872.4 | 853.3  | 850.6 | 827.0 | 799.8 | 757.6 | 726.7 | 688.6 | 654.6 |
| 20°    | 946.8 | 939.1 | 919.5 | 911.8  | 896.0 | 876.0 | 847.9 | 795.7 | 758.0 | 719.9 | 678.2 |
| 22.5°  | 985.3 | 977.6 | 962.2 | 951.8  | 942.7 | 916.8 | 883.3 | 838.8 | 787.1 | 737.2 | 694.1 |
| 25°    | 984.9 | 982.6 | 976.3 | 971.3  | 964.5 | 945.4 | 917.3 | 874.6 | 817.0 | 762.1 | 702.2 |
| 27.5°  | 929.1 | 935.4 | 946.3 | 951.8  | 950.4 | 947.7 | 931.8 | 896.0 | 844.2 | 778.9 | 711.8 |
| 30°    | 812.9 | 836.1 | 856.5 | 883.7  | 891.9 | 911.8 | 920.9 | 900.5 | 859.2 | 798.4 | 724.0 |
| 32.5°  | 674.1 | 707.7 | 752.2 | 767.1  | 793.0 | 831.5 | 874.6 | 882.3 | 856.5 | 809.8 | 731.7 |
| 35°    | 553.0 | 580.7 | 615.1 | 638.7  | 661.9 | 724.5 | 778.9 | 826.1 | 834.7 | 803.9 | 729.9 |
| 37.5°  | 457.7 | 477.2 | 507.6 | 527.6  | 548.9 | 602.4 | 678.7 | 739.9 | 783.0 | 783.9 | 724.9 |
| 40°    | 388.8 | 397.4 | 423.7 | 438.2  | 458.6 | 504.9 | 573.0 | 652.8 | 715.9 | 744.9 | 711.8 |
| 42.5°  | 329.3 | 340.7 | 362.5 | 373.4  | 386.5 | 426.9 | 471.8 | 547.6 | 625.6 | 687.7 | 687.3 |
| 45°    | 294.0 | 302.1 | 312.1 | 321.2  | 336.2 | 360.2 | 411.5 | 468.2 | 543.0 | 613.3 | 641.0 |
| 47.5°  | 262.7 | 270.4 | 280.4 | 283.1  | 293.1 | 315.7 | 347.0 | 396.5 | 466.4 | 536.2 | 588.4 |
| 50°    | 236.4 | 242.7 | 249.5 | 254.5  | 259.0 | 277.6 | 301.2 | 343.0 | 398.8 | 466.4 | 531.2 |
| 52.5°  | 215.9 | 220.5 | 226.4 | 229.1  | 233.2 | 246.8 | 264.9 | 295.8 | 341.6 | 403.3 | 466.4 |
| 55°    | 196.9 | 200.1 | 203.7 | 208.2  | 210.0 | 220.0 | 234.1 | 260.4 | 294.4 | 349.8 | 409.6 |
| 57.5°  | 179.2 | 180.6 | 182.8 | 185.5  | 187.8 | 196.4 | 208.7 | 226.4 | 256.3 | 299.0 | 355.7 |
| 60°    | 159.2 | 162.9 | 164.2 | 166.9  | 168.3 | 175.1 | 184.6 | 199.6 | 222.7 | 259.5 | 302.1 |
| 62.5°  | 142.4 | 144.7 | 147.0 | 148.3  | 151.5 | 153.8 | 161.5 | 175.1 | 194.2 | 221.4 | 259.9 |
| 65°    | 127.5 | 128.4 | 129.7 | 131.1  | 132.0 | 134.7 | 142.0 | 151.1 | 165.6 | 189.6 | 219.6 |
| 67.5°  | 110.2 | 111.1 | 113.0 | 113.4  | 114.3 | 117.9 | 122.0 | 129.7 | 142.0 | 160.1 | 184.6 |
| 70°    | 93.5  | 94.8  | 95.7  | 96.6   | 98.0  | 99.3  | 103.9 | 110.2 | 119.8 | 132.5 | 151.5 |
| 72.5°  | 78.9  | 80.3  | 80.3  | 81.2   | 80.7  | 82.6  | 87.1  | 91.6  | 98.0  | 108.4 | 125.2 |
| 75°    | 64.4  | 64.4  | 65.3  | 65.8   | 66.2  | 68.0  | 69.9  | 73.5  | 78.5  | 86.6  | 97.1  |
| 77.5°  | 50.8  | 50.4  | 51.3  | 51.3   | 51.3  | 52.6  | 54.4  | 56.3  | 59.4  | 65.3  | 73.5  |
| 80°    | 37.2  | 37.2  | 38.1  | 38.6   | 37.7  | 38.1  | 39.0  | 40.8  | 43.1  | 47.2  | 51.7  |
| 82.5°  | 24.5  | 26.3  | 25.9  | 26.3   | 25.9  | 26.8  | 27.2  | 27.7  | 28.6  | 30.4  | 33.6  |
| 85°    | 15.0  | 15.0  | 15.0  | 15.4   | 15.0  | 15.4  | 15.4  | 15.4  | 15.9  | 16.8  | 18.1  |
| 87.5°  | 6.4   | 6.4   | 6.4   | 6.8    | 6.4   | 6.4   | 6.8   | 6.4   | 6.8   | 6.8   | 7.3   |
| 90°    | 33.8  | 33.3  | 32.8  | 32.5   | 32.0  | 31.0  | 29.9  | 28.9  | 27.9  | 24.5  | 21.2  |
| 92.5°  | 39.0  | 38.7  | 38.4  | 38.3   | 37.4  | 35.6  | 33.8  | 32.0  | 30.2  | 27.9  | 25.5  |
| 95°    | 44.1  | 44.1  | 44.1  | 44.1   | 43.2  | 41.4  | 39.6  | 37.8  | 36.0  | 33.2  | 30.3  |
| 97.5°  | 47.1  | 46.8  | 46.5  | 46.4   | 45.4  | 43.3  | 41.3  | 39.2  | 37.2  | 50.4  | 63.5  |
| 100°   | 48.3  | 48.0  | 47.7  | 47.6   | 46.6  | 44.5  | 42.4  | 40.4  | 38.3  | 78.5  | 118.8 |
| 102.5° | 48.9  | 48.4  | 47.9  | 47.6   | 51.9  | 60.4  | 68.9  | 77.4  | 85.9  | 130.8 | 175.7 |
| 105°   | 50.1  | 49.6  | 49.1  | 48.8   | 71.6  | 117.3 | 163.0 | 208.6 | 254.3 | 277.5 | 300.7 |
| 107.5° | 188.3 | 222.1 | 255.9 | 272.8  | 292.7 | 332.4 | 372.1 | 411.9 | 451.6 | 447.7 | 443.9 |
| 110°   | 393.1 | 430.0 | 466.9 | 485.3  | 489.6 | 498.1 | 506.6 | 515.1 | 523.6 | 520.8 | 517.9 |

TEST NUMBER: P1010560

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 605.9  | 606.4  | 606.9  | 607.2  | 606.0  | 603.7  | 601.4  | 599.0  | 596.7  | 593.9  | 591.1  |
| 115°   | 680.6  | 679.5  | 678.5  | 678.0  | 676.7  | 674.1  | 671.6  | 669.0  | 666.4  | 664.1  | 661.7  |
| 117.5° | 744.8  | 744.6  | 744.3  | 744.2  | 743.2  | 741.1  | 739.0  | 737.0  | 734.9  | 733.6  | 732.3  |
| 120°   | 810.4  | 810.4  | 810.4  | 810.4  | 809.4  | 807.3  | 805.2  | 803.2  | 801.1  | 800.3  | 799.5  |
| 122.5° | 873.7  | 873.4  | 873.1  | 873.0  | 872.4  | 871.1  | 869.8  | 868.5  | 867.2  | 866.2  | 865.2  |
| 125°   | 932.4  | 931.9  | 931.4  | 931.1  | 930.8  | 930.3  | 929.8  | 929.3  | 928.8  | 927.8  | 926.7  |
| 127.5° | 992.5  | 993.0  | 993.5  | 993.8  | 993.4  | 992.6  | 991.9  | 991.1  | 990.3  | 989.0  | 987.7  |
| 130°   | 1048.2 | 1048.7 | 1049.2 | 1049.5 | 1049.0 | 1048.0 | 1046.9 | 1045.9 | 1044.9 | 1043.9 | 1042.8 |
| 132.5° | 1099.9 | 1100.6 | 1101.4 | 1101.8 | 1101.3 | 1100.2 | 1099.2 | 1098.1 | 1097.1 | 1096.3 | 1095.5 |
| 135°   | 1152.1 | 1152.8 | 1153.6 | 1154.0 | 1153.6 | 1152.8 | 1152.1 | 1151.3 | 1150.5 | 1149.5 | 1148.5 |
| 137.5° | 1201.5 | 1202.0 | 1202.5 | 1202.8 | 1202.2 | 1200.9 | 1199.6 | 1198.3 | 1197.0 | 1196.5 | 1195.9 |
| 140°   | 1245.6 | 1246.1 | 1246.6 | 1246.9 | 1246.4 | 1245.3 | 1244.3 | 1243.2 | 1242.2 | 1241.4 | 1240.6 |
| 142.5° | 1286.8 | 1287.5 | 1288.3 | 1288.7 | 1288.3 | 1287.5 | 1286.8 | 1286.0 | 1285.2 | 1284.4 | 1283.6 |
| 145°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1326.7 | 1326.2 | 1325.7 | 1325.2 | 1324.7 | 1324.2 | 1323.6 |
| 147.5° | 1359.8 | 1361.1 | 1362.4 | 1363.0 | 1362.7 | 1362.2 | 1361.7 | 1361.1 | 1360.6 | 1360.1 | 1359.6 |
| 150°   | 1393.6 | 1394.3 | 1395.1 | 1395.5 | 1395.2 | 1394.7 | 1394.2 | 1393.7 | 1393.2 | 1392.7 | 1392.1 |
| 152.5° | 1422.5 | 1423.8 | 1425.1 | 1425.7 | 1425.2 | 1424.1 | 1423.1 | 1422.0 | 1421.0 | 1420.8 | 1420.5 |
| 155°   | 1448.5 | 1450.1 | 1451.6 | 1452.4 | 1451.8 | 1450.5 | 1449.2 | 1447.9 | 1446.6 | 1446.3 | 1446.1 |
| 157.5° | 1471.6 | 1473.6 | 1475.7 | 1476.7 | 1475.9 | 1474.4 | 1472.9 | 1471.3 | 1469.8 | 1470.0 | 1470.3 |
| 160°   | 1492.0 | 1493.8 | 1495.6 | 1496.5 | 1495.7 | 1494.2 | 1492.6 | 1491.1 | 1489.5 | 1489.8 | 1490.0 |
| 162.5° | 1511.2 | 1512.8 | 1514.3 | 1515.1 | 1514.2 | 1512.4 | 1510.5 | 1508.7 | 1506.9 | 1507.2 | 1507.4 |
| 165°   | 1526.8 | 1528.6 | 1530.4 | 1531.3 | 1530.3 | 1528.2 | 1526.1 | 1524.1 | 1522.0 | 1522.3 | 1522.5 |
| 167.5° | 1538.9 | 1541.0 | 1543.1 | 1544.1 | 1543.1 | 1541.0 | 1538.9 | 1536.9 | 1534.8 | 1534.8 | 1534.8 |
| 170°   | 1549.3 | 1551.4 | 1553.5 | 1554.5 | 1553.5 | 1551.4 | 1549.3 | 1547.3 | 1545.2 | 1545.2 | 1545.2 |
| 172.5° | 1555.7 | 1558.0 | 1560.3 | 1561.5 | 1560.5 | 1558.4 | 1556.3 | 1554.3 | 1552.2 | 1551.9 | 1551.7 |
| 175°   | 1560.9 | 1563.0 | 1565.1 | 1566.1 | 1565.2 | 1563.4 | 1561.6 | 1559.8 | 1558.0 | 1557.7 | 1557.5 |
| 177.5° | 1563.2 | 1565.7 | 1568.3 | 1569.6 | 1568.6 | 1566.5 | 1564.4 | 1562.4 | 1560.3 | 1560.1 | 1559.8 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 468.2 | 468.2 | 468.2  | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 |
| 2.5°   | 480.9 | 479.5 | 479.5  | 478.6 | 475.9 | 470.9 | 470.4 | 471.3 | 468.6 | 465.9 | 461.8 |
| 5°     | 504.5 | 495.8 | 493.1  | 490.4 | 485.0 | 475.9 | 472.2 | 469.1 | 464.1 | 458.2 | 451.8 |
| 7.5°   | 524.4 | 512.2 | 508.5  | 503.6 | 492.7 | 480.0 | 471.8 | 465.0 | 458.2 | 450.0 | 442.3 |
| 10°    | 549.4 | 531.7 | 523.1  | 515.8 | 500.8 | 483.1 | 470.9 | 460.9 | 450.0 | 440.0 | 430.1 |
| 12.5°  | 577.5 | 548.9 | 546.2  | 528.5 | 511.3 | 485.0 | 470.0 | 455.5 | 440.9 | 428.7 | 418.3 |
| 15°    | 601.1 | 569.8 | 558.4  | 546.6 | 513.5 | 480.9 | 466.4 | 450.0 | 433.2 | 420.1 | 404.7 |
| 17.5°  | 616.1 | 590.2 | 566.2  | 550.3 | 515.8 | 486.8 | 458.6 | 440.0 | 422.3 | 404.2 | 391.5 |
| 20°    | 634.2 | 596.5 | 575.7  | 554.4 | 520.3 | 482.2 | 454.1 | 431.0 | 409.2 | 392.9 | 377.4 |
| 22.5°  | 652.3 | 601.5 | 584.3  | 561.2 | 521.2 | 477.7 | 445.9 | 422.8 | 397.9 | 381.5 | 364.7 |
| 25°    | 650.5 | 608.8 | 580.2  | 560.7 | 512.2 | 473.6 | 436.4 | 409.2 | 386.1 | 365.2 | 348.4 |
| 27.5°  | 651.9 | 600.6 | 571.6  | 548.9 | 505.8 | 467.7 | 426.4 | 397.9 | 373.8 | 352.0 | 334.3 |
| 30°    | 652.3 | 588.4 | 563.0  | 535.8 | 494.0 | 453.6 | 415.1 | 386.1 | 360.7 | 337.1 | 321.2 |
| 32.5°  | 651.0 | 578.4 | 546.6  | 522.2 | 475.4 | 440.0 | 401.9 | 371.1 | 345.2 | 323.5 | 308.5 |
| 35°    | 647.8 | 566.6 | 529.9  | 499.0 | 456.4 | 420.5 | 389.7 | 357.9 | 330.3 | 310.3 | 293.1 |
| 37.5°  | 639.2 | 553.9 | 512.2  | 481.8 | 434.1 | 397.9 | 370.6 | 344.3 | 317.6 | 294.0 | 279.4 |
| 40°    | 632.8 | 536.7 | 494.5  | 461.4 | 410.1 | 374.7 | 352.0 | 327.1 | 300.8 | 279.4 | 265.4 |
| 42.5°  | 618.3 | 520.3 | 476.3  | 436.9 | 386.5 | 350.2 | 328.9 | 308.9 | 286.3 | 265.4 | 252.7 |
| 45°    | 594.7 | 502.6 | 454.1  | 414.2 | 360.7 | 326.2 | 306.7 | 290.3 | 270.4 | 250.4 | 237.7 |
| 47.5°  | 561.6 | 477.2 | 430.5  | 390.6 | 335.2 | 300.3 | 280.8 | 268.6 | 252.7 | 235.9 | 225.0 |
| 50°    | 525.8 | 449.6 | 406.5  | 367.0 | 310.7 | 276.7 | 257.7 | 246.3 | 235.9 | 220.5 | 210.0 |
| 52.5°  | 479.1 | 420.1 | 378.8  | 341.1 | 284.4 | 251.8 | 235.0 | 226.8 | 215.9 | 205.0 | 196.0 |
| 55°    | 433.7 | 382.0 | 347.9  | 312.1 | 258.6 | 228.2 | 211.9 | 203.2 | 196.9 | 187.8 | 180.6 |
| 57.5°  | 381.1 | 346.6 | 315.3  | 282.6 | 234.5 | 206.9 | 191.4 | 181.0 | 176.9 | 172.8 | 166.0 |
| 60°    | 332.5 | 306.2 | 280.8  | 253.6 | 209.6 | 184.6 | 169.7 | 161.5 | 157.4 | 154.7 | 150.2 |
| 62.5°  | 288.1 | 267.7 | 245.9  | 224.1 | 184.2 | 161.5 | 150.2 | 142.0 | 138.4 | 137.9 | 133.8 |
| 65°    | 245.4 | 230.9 | 213.2  | 191.9 | 160.6 | 140.6 | 129.7 | 124.8 | 120.7 | 120.7 | 117.5 |
| 67.5°  | 202.8 | 192.8 | 178.7  | 163.8 | 139.3 | 120.7 | 110.7 | 106.2 | 103.9 | 103.9 | 101.6 |
| 70°    | 168.8 | 162.0 | 149.3  | 136.1 | 114.8 | 100.7 | 93.0  | 88.9  | 87.6  | 88.0  | 86.2  |
| 72.5°  | 137.0 | 129.7 | 119.3  | 109.8 | 93.9  | 83.5  | 78.0  | 73.5  | 71.2  | 71.7  | 71.2  |
| 75°    | 106.2 | 102.5 | 93.5   | 86.2  | 73.5  | 66.2  | 61.2  | 59.0  | 57.2  | 57.6  | 56.7  |
| 77.5°  | 79.8  | 74.4  | 69.4   | 64.4  | 56.7  | 50.8  | 46.7  | 44.5  | 43.1  | 43.1  | 43.1  |
| 80°    | 54.4  | 53.5  | 49.4   | 46.7  | 40.4  | 35.8  | 32.7  | 32.2  | 30.8  | 30.8  | 30.8  |
| 82.5°  | 35.4  | 33.1  | 30.8   | 29.0  | 25.4  | 22.7  | 21.3  | 20.4  | 20.0  | 19.5  | 20.4  |
| 85°    | 19.5  | 18.1  | 17.2   | 15.4  | 14.1  | 12.7  | 11.3  | 10.9  | 10.4  | 10.9  | 10.4  |
| 87.5°  | 7.7   | 6.4   | 6.4    | 5.9   | 5.4   | 5.0   | 5.0   | 4.1   | 4.1   | 3.6   | 3.6   |
| 90°    | 17.8  | 14.5  | 12.8   | 11.5  | 8.9   | 6.4   | 3.8   | 1.2   | 3.8   | 6.4   | 8.9   |
| 92.5°  | 23.2  | 20.9  | 19.7   | 20.5  | 22.0  | 23.6  | 25.1  | 26.7  | 25.1  | 23.6  | 22.0  |
| 95°    | 27.5  | 24.6  | 23.2   | 28.5  | 39.1  | 49.6  | 60.2  | 70.8  | 60.2  | 49.6  | 39.1  |
| 97.5°  | 76.7  | 89.8  | 96.4   | 100.0 | 107.2 | 114.5 | 121.7 | 128.9 | 121.7 | 114.5 | 107.2 |
| 100°   | 159.0 | 199.3 | 219.4  | 216.8 | 211.7 | 206.5 | 201.4 | 196.2 | 201.4 | 206.5 | 211.7 |
| 102.5° | 220.6 | 265.5 | 287.9  | 286.2 | 282.9 | 279.5 | 276.2 | 272.8 | 276.2 | 279.5 | 282.9 |
| 105°   | 323.9 | 347.1 | 358.7  | 357.3 | 354.5 | 351.6 | 348.8 | 346.0 | 348.8 | 351.6 | 354.5 |
| 107.5° | 440.0 | 436.1 | 434.2  | 433.0 | 430.7 | 428.4 | 426.1 | 423.8 | 426.1 | 428.4 | 430.7 |
| 110°   | 515.1 | 512.2 | 510.8  | 509.8 | 507.7 | 505.6 | 503.6 | 501.5 | 503.6 | 505.6 | 507.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 588.2  | 585.4  | 584.0  | 583.1  | 581.3  | 579.4  | 577.6  | 575.8  | 577.6  | 579.4  | 581.3  |
| 115°   | 659.4  | 657.1  | 655.9  | 655.1  | 653.6  | 652.1  | 650.5  | 649.0  | 650.5  | 652.1  | 653.6  |
| 117.5° | 731.0  | 729.7  | 729.1  | 728.2  | 726.4  | 724.6  | 722.8  | 721.0  | 722.8  | 724.6  | 726.4  |
| 120°   | 798.8  | 798.0  | 797.6  | 796.4  | 794.1  | 791.8  | 789.4  | 787.1  | 789.4  | 791.8  | 794.1  |
| 122.5° | 864.1  | 863.1  | 862.6  | 861.7  | 859.9  | 858.1  | 856.3  | 854.5  | 856.3  | 858.1  | 859.9  |
| 125°   | 925.7  | 924.6  | 924.1  | 923.1  | 921.0  | 918.9  | 916.9  | 914.8  | 916.9  | 918.9  | 921.0  |
| 127.5° | 986.4  | 985.1  | 984.5  | 983.5  | 981.4  | 979.3  | 977.3  | 975.2  | 977.3  | 979.3  | 981.4  |
| 130°   | 1041.8 | 1040.7 | 1040.2 | 1039.2 | 1037.1 | 1035.0 | 1033.0 | 1030.9 | 1033.0 | 1035.0 | 1037.1 |
| 132.5° | 1094.8 | 1094.0 | 1093.6 | 1092.6 | 1090.5 | 1088.4 | 1086.4 | 1084.3 | 1086.4 | 1088.4 | 1090.5 |
| 135°   | 1147.4 | 1146.4 | 1145.9 | 1145.1 | 1143.6 | 1142.0 | 1140.5 | 1138.9 | 1140.5 | 1142.0 | 1143.6 |
| 137.5° | 1195.4 | 1194.9 | 1194.6 | 1193.6 | 1191.5 | 1189.4 | 1187.4 | 1185.3 | 1187.4 | 1189.4 | 1191.5 |
| 140°   | 1239.9 | 1239.1 | 1238.7 | 1237.9 | 1236.4 | 1234.9 | 1233.3 | 1231.8 | 1233.3 | 1234.9 | 1236.4 |
| 142.5° | 1282.9 | 1282.1 | 1281.7 | 1280.9 | 1279.4 | 1277.8 | 1276.3 | 1274.7 | 1276.3 | 1277.8 | 1279.4 |
| 145°   | 1323.1 | 1322.6 | 1322.3 | 1321.4 | 1319.6 | 1317.8 | 1316.0 | 1314.2 | 1316.0 | 1317.8 | 1319.6 |
| 147.5° | 1359.1 | 1358.6 | 1358.3 | 1357.7 | 1356.4 | 1355.1 | 1353.8 | 1352.5 | 1353.8 | 1355.1 | 1356.4 |
| 150°   | 1391.6 | 1391.1 | 1390.8 | 1390.4 | 1389.6 | 1388.9 | 1388.1 | 1387.3 | 1388.1 | 1388.9 | 1389.6 |
| 152.5° | 1420.3 | 1420.0 | 1419.9 | 1419.8 | 1419.5 | 1419.2 | 1419.0 | 1418.7 | 1419.0 | 1419.2 | 1419.5 |
| 155°   | 1445.8 | 1445.5 | 1445.4 | 1445.7 | 1446.2 | 1446.7 | 1447.2 | 1447.7 | 1447.2 | 1446.7 | 1446.2 |
| 157.5° | 1470.5 | 1470.8 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 | 1470.9 |
| 160°   | 1490.3 | 1490.6 | 1490.7 | 1490.8 | 1491.1 | 1491.3 | 1491.6 | 1491.8 | 1491.6 | 1491.3 | 1491.1 |
| 162.5° | 1507.7 | 1508.0 | 1508.1 | 1508.5 | 1509.3 | 1510.0 | 1510.8 | 1511.6 | 1510.8 | 1510.0 | 1509.3 |
| 165°   | 1522.8 | 1523.1 | 1523.2 | 1523.6 | 1524.4 | 1525.1 | 1525.9 | 1526.7 | 1525.9 | 1525.1 | 1524.4 |
| 167.5° | 1534.8 | 1534.8 | 1534.8 | 1535.3 | 1536.3 | 1537.4 | 1538.4 | 1539.4 | 1538.4 | 1537.4 | 1536.3 |
| 170°   | 1545.2 | 1545.2 | 1545.2 | 1545.7 | 1546.8 | 1547.8 | 1548.9 | 1549.9 | 1548.9 | 1547.8 | 1546.8 |
| 172.5° | 1551.4 | 1551.1 | 1551.0 | 1551.6 | 1552.9 | 1554.2 | 1555.5 | 1556.8 | 1555.5 | 1554.2 | 1552.9 |
| 175°   | 1557.2 | 1556.9 | 1556.8 | 1557.5 | 1558.8 | 1560.1 | 1561.4 | 1562.7 | 1561.4 | 1560.1 | 1558.8 |
| 177.5° | 1559.6 | 1559.3 | 1559.2 | 1559.8 | 1561.1 | 1562.4 | 1563.7 | 1565.0 | 1563.7 | 1562.4 | 1561.1 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 468.2 | 468.2  | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 |
| 2.5°   | 460.9 | 460.5  | 461.4 | 458.6 | 454.1 | 451.8 | 445.5 | 444.1 | 443.7 | 444.1 | 444.6 |
| 5°     | 448.2 | 447.8  | 446.4 | 441.9 | 436.4 | 432.3 | 424.6 | 424.2 | 421.4 | 418.7 | 420.1 |
| 7.5°   | 436.0 | 434.1  | 431.4 | 425.5 | 418.3 | 413.7 | 407.4 | 402.8 | 399.2 | 396.9 | 395.1 |
| 10°    | 423.7 | 421.0  | 418.3 | 410.6 | 401.5 | 394.7 | 387.0 | 383.3 | 379.3 | 377.4 | 375.6 |
| 12.5°  | 407.8 | 405.1  | 400.1 | 391.0 | 385.6 | 377.0 | 369.3 | 365.6 | 363.4 | 359.7 | 357.5 |
| 15°    | 395.1 | 389.7  | 387.0 | 377.4 | 366.1 | 365.2 | 351.1 | 350.2 | 345.7 | 345.7 | 342.1 |
| 17.5°  | 380.6 | 376.5  | 371.5 | 362.0 | 353.8 | 345.7 | 338.4 | 335.7 | 331.6 | 330.7 | 328.9 |
| 20°    | 366.5 | 361.1  | 359.3 | 349.8 | 341.1 | 331.2 | 323.5 | 320.7 | 318.9 | 317.1 | 318.5 |
| 22.5°  | 352.0 | 347.5  | 343.0 | 334.3 | 328.0 | 318.0 | 313.5 | 310.7 | 308.0 | 307.1 | 307.6 |
| 25°    | 338.0 | 333.9  | 329.3 | 320.7 | 313.9 | 305.8 | 301.7 | 300.3 | 299.0 | 299.0 | 298.5 |
| 27.5°  | 324.4 | 320.3  | 316.2 | 308.5 | 301.7 | 295.8 | 292.6 | 291.2 | 289.9 | 290.8 | 291.7 |
| 30°    | 310.3 | 306.7  | 303.0 | 296.2 | 290.8 | 285.3 | 283.5 | 282.6 | 282.2 | 284.4 | 284.4 |
| 32.5°  | 297.6 | 294.4  | 291.7 | 285.3 | 279.9 | 275.4 | 274.0 | 274.5 | 274.9 | 276.3 | 277.2 |
| 35°    | 284.4 | 282.2  | 279.4 | 274.0 | 269.5 | 265.4 | 265.8 | 265.8 | 266.7 | 269.0 | 270.8 |
| 37.5°  | 272.6 | 269.5  | 267.2 | 262.7 | 259.0 | 255.4 | 256.8 | 258.1 | 259.0 | 261.8 | 262.7 |
| 40°    | 258.6 | 257.2  | 255.4 | 250.9 | 247.7 | 247.2 | 247.7 | 248.6 | 250.4 | 251.8 | 253.1 |
| 42.5°  | 247.2 | 245.4  | 243.2 | 239.5 | 236.8 | 237.3 | 237.7 | 238.6 | 239.5 | 241.8 | 243.2 |
| 45°    | 234.5 | 233.2  | 231.4 | 228.2 | 225.9 | 226.4 | 226.8 | 226.8 | 227.7 | 230.5 | 231.4 |
| 47.5°  | 220.5 | 220.9  | 218.7 | 215.5 | 214.1 | 214.1 | 214.1 | 215.0 | 217.3 | 218.2 | 218.7 |
| 50°    | 206.9 | 206.0  | 205.5 | 202.3 | 201.4 | 201.0 | 201.4 | 201.9 | 205.0 | 204.6 | 206.0 |
| 52.5°  | 192.3 | 192.3  | 191.9 | 190.1 | 188.7 | 188.7 | 187.8 | 190.1 | 191.0 | 191.9 | 193.3 |
| 55°    | 178.3 | 176.9  | 176.5 | 175.6 | 173.7 | 173.3 | 174.2 | 176.9 | 177.8 | 178.7 | 180.1 |
| 57.5°  | 162.9 | 162.9  | 162.0 | 160.6 | 160.6 | 160.6 | 160.6 | 162.4 | 163.8 | 164.7 | 167.4 |
| 60°    | 148.8 | 147.0  | 145.6 | 145.6 | 145.6 | 145.2 | 147.9 | 147.9 | 150.6 | 151.1 | 152.0 |
| 62.5°  | 132.0 | 131.1  | 130.2 | 130.7 | 130.2 | 131.1 | 132.0 | 133.8 | 134.3 | 135.6 | 137.0 |
| 65°    | 116.1 | 116.1  | 115.2 | 117.9 | 116.1 | 116.1 | 118.4 | 118.4 | 119.3 | 120.7 | 122.5 |
| 67.5°  | 100.7 | 101.2  | 100.3 | 100.3 | 101.2 | 101.6 | 102.1 | 103.9 | 104.3 | 106.2 | 108.4 |
| 70°    | 84.8  | 85.7   | 86.2  | 85.3  | 86.2  | 87.1  | 88.0  | 88.5  | 90.3  | 91.2  | 92.5  |
| 72.5°  | 70.8  | 71.7   | 70.3  | 70.8  | 71.2  | 72.1  | 72.6  | 73.5  | 74.4  | 77.1  | 78.0  |
| 75°    | 56.7  | 56.3   | 55.8  | 57.6  | 56.7  | 58.5  | 59.0  | 59.0  | 59.9  | 62.1  | 63.1  |
| 77.5°  | 43.6  | 43.6   | 44.0  | 43.1  | 44.5  | 44.0  | 44.5  | 45.8  | 47.2  | 47.2  | 50.8  |
| 80°    | 30.4  | 31.3   | 31.3  | 31.3  | 31.8  | 32.2  | 31.3  | 33.6  | 34.0  | 34.0  | 35.4  |
| 82.5°  | 19.5  | 20.0   | 19.5  | 20.4  | 20.4  | 21.3  | 20.9  | 21.3  | 22.2  | 23.1  | 23.6  |
| 85°    | 10.4  | 10.4   | 11.3  | 11.3  | 10.9  | 11.3  | 10.9  | 11.3  | 12.2  | 12.2  | 12.7  |
| 87.5°  | 3.6   | 3.6    | 3.6   | 3.6   | 4.1   | 3.6   | 4.1   | 4.1   | 3.6   | 3.6   | 5.0   |
| 90°    | 11.5  | 12.8   | 14.5  | 17.8  | 21.2  | 24.5  | 27.9  | 28.9  | 29.9  | 31.0  | 32.0  |
| 92.5°  | 20.5  | 19.7   | 20.9  | 23.2  | 25.5  | 27.9  | 30.2  | 32.0  | 33.8  | 35.6  | 37.4  |
| 95°    | 28.5  | 23.2   | 24.6  | 27.5  | 30.3  | 33.2  | 36.0  | 37.8  | 39.6  | 41.4  | 43.2  |
| 97.5°  | 100.0 | 96.4   | 89.8  | 76.7  | 63.5  | 50.4  | 37.2  | 39.2  | 41.3  | 43.3  | 45.4  |
| 100°   | 216.8 | 219.4  | 199.3 | 159.0 | 118.8 | 78.5  | 38.3  | 40.4  | 42.4  | 44.5  | 46.6  |
| 102.5° | 286.2 | 287.9  | 265.5 | 220.6 | 175.7 | 130.8 | 85.9  | 77.4  | 68.9  | 60.4  | 51.9  |
| 105°   | 357.3 | 358.7  | 347.1 | 323.9 | 300.7 | 277.5 | 254.3 | 208.6 | 163.0 | 117.3 | 71.6  |
| 107.5° | 433.0 | 434.2  | 436.1 | 440.0 | 443.9 | 447.7 | 451.6 | 411.9 | 372.1 | 332.4 | 292.7 |
| 110°   | 509.8 | 510.8  | 512.2 | 515.1 | 517.9 | 520.8 | 523.6 | 515.1 | 506.6 | 498.1 | 489.6 |

TEST NUMBER: P1010560

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 583.1  | 584.0  | 585.4  | 588.2  | 591.1  | 593.9  | 596.7  | 599.0  | 601.4  | 603.7  | 606.0  |
| 115°   | 655.1  | 655.9  | 657.1  | 659.4  | 661.7  | 664.1  | 666.4  | 669.0  | 671.6  | 674.1  | 676.7  |
| 117.5° | 728.2  | 729.1  | 729.7  | 731.0  | 732.3  | 733.6  | 734.9  | 737.0  | 739.0  | 741.1  | 743.2  |
| 120°   | 796.4  | 797.6  | 798.0  | 798.8  | 799.5  | 800.3  | 801.1  | 803.2  | 805.2  | 807.3  | 809.4  |
| 122.5° | 861.7  | 862.6  | 863.1  | 864.1  | 865.2  | 866.2  | 867.2  | 868.5  | 869.8  | 871.1  | 872.4  |
| 125°   | 923.1  | 924.1  | 924.6  | 925.7  | 926.7  | 927.8  | 928.8  | 929.3  | 929.8  | 930.3  | 930.8  |
| 127.5° | 983.5  | 984.5  | 985.1  | 986.4  | 987.7  | 989.0  | 990.3  | 991.1  | 991.9  | 992.6  | 993.4  |
| 130°   | 1039.2 | 1040.2 | 1040.7 | 1041.8 | 1042.8 | 1043.9 | 1044.9 | 1045.9 | 1046.9 | 1048.0 | 1049.0 |
| 132.5° | 1092.6 | 1093.6 | 1094.0 | 1094.8 | 1095.5 | 1096.3 | 1097.1 | 1098.1 | 1099.2 | 1100.2 | 1101.3 |
| 135°   | 1145.1 | 1145.9 | 1146.4 | 1147.4 | 1148.5 | 1149.5 | 1150.5 | 1151.3 | 1152.1 | 1152.8 | 1153.6 |
| 137.5° | 1193.6 | 1194.6 | 1194.9 | 1195.4 | 1195.9 | 1196.5 | 1197.0 | 1198.3 | 1199.6 | 1200.9 | 1202.2 |
| 140°   | 1237.9 | 1238.7 | 1239.1 | 1239.9 | 1240.6 | 1241.4 | 1242.2 | 1243.2 | 1244.3 | 1245.3 | 1246.4 |
| 142.5° | 1280.9 | 1281.7 | 1282.1 | 1282.9 | 1283.6 | 1284.4 | 1285.2 | 1286.0 | 1286.8 | 1287.5 | 1288.3 |
| 145°   | 1321.4 | 1322.3 | 1322.6 | 1323.1 | 1323.6 | 1324.2 | 1324.7 | 1325.2 | 1325.7 | 1326.2 | 1326.7 |
| 147.5° | 1357.7 | 1358.3 | 1358.6 | 1359.1 | 1359.6 | 1360.1 | 1360.6 | 1361.1 | 1361.7 | 1362.2 | 1362.7 |
| 150°   | 1390.4 | 1390.8 | 1391.1 | 1391.6 | 1392.1 | 1392.7 | 1393.2 | 1393.7 | 1394.2 | 1394.7 | 1395.2 |
| 152.5° | 1419.8 | 1419.9 | 1420.0 | 1420.3 | 1420.5 | 1420.8 | 1421.0 | 1422.0 | 1423.1 | 1424.1 | 1425.2 |
| 155°   | 1445.7 | 1445.4 | 1445.5 | 1445.8 | 1446.1 | 1446.3 | 1446.6 | 1447.9 | 1449.2 | 1450.5 | 1451.8 |
| 157.5° | 1470.9 | 1470.9 | 1470.8 | 1470.5 | 1470.3 | 1470.0 | 1469.8 | 1471.3 | 1472.9 | 1474.4 | 1475.9 |
| 160°   | 1490.8 | 1490.7 | 1490.6 | 1490.3 | 1490.0 | 1489.8 | 1489.5 | 1491.1 | 1492.6 | 1494.2 | 1495.7 |
| 162.5° | 1508.5 | 1508.1 | 1508.0 | 1507.7 | 1507.4 | 1507.2 | 1506.9 | 1508.7 | 1510.5 | 1512.4 | 1514.2 |
| 165°   | 1523.6 | 1523.2 | 1523.1 | 1522.8 | 1522.5 | 1522.3 | 1522.0 | 1524.1 | 1526.1 | 1528.2 | 1530.3 |
| 167.5° | 1535.3 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1536.9 | 1538.9 | 1541.0 | 1543.1 |
| 170°   | 1545.7 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1547.3 | 1549.3 | 1551.4 | 1553.5 |
| 172.5° | 1551.6 | 1551.0 | 1551.1 | 1551.4 | 1551.7 | 1551.9 | 1552.2 | 1554.3 | 1556.3 | 1558.4 | 1560.5 |
| 175°   | 1557.5 | 1556.8 | 1556.9 | 1557.2 | 1557.5 | 1557.7 | 1558.0 | 1559.8 | 1561.6 | 1563.4 | 1565.2 |
| 177.5° | 1559.8 | 1559.2 | 1559.3 | 1559.6 | 1559.8 | 1560.1 | 1560.3 | 1562.4 | 1564.4 | 1566.5 | 1568.6 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

TEST NUMBER: P1010560

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 468.2  | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2  |
| 2.5°   | 444.1  | 444.6 | 442.8 | 441.4 | 445.0 | 442.8 | 442.8 | 443.2 | 442.3 | 443.7 | 443.2  |
| 5°     | 419.2  | 419.6 | 416.4 | 417.4 | 415.5 | 415.1 | 414.6 | 417.4 | 416.9 | 416.4 | 417.4  |
| 7.5°   | 394.7  | 394.7 | 393.3 | 392.4 | 392.4 | 391.0 | 392.9 | 392.4 | 393.3 | 393.3 | 394.7  |
| 10°    | 374.3  | 375.2 | 372.9 | 370.6 | 370.2 | 370.6 | 370.6 | 371.1 | 371.5 | 374.7 | 374.3  |
| 12.5°  | 357.5  | 356.1 | 355.7 | 354.3 | 352.0 | 351.1 | 350.2 | 355.2 | 353.8 | 353.8 | 353.8  |
| 15°    | 338.9  | 342.1 | 341.6 | 337.5 | 336.6 | 338.4 | 337.5 | 337.5 | 342.1 | 341.6 | 341.1  |
| 17.5°  | 328.9  | 328.0 | 327.1 | 324.8 | 325.3 | 324.8 | 325.3 | 325.3 | 328.0 | 328.0 | 328.0  |
| 20°    | 317.6  | 315.7 | 315.7 | 314.8 | 314.8 | 313.5 | 315.3 | 315.7 | 317.6 | 317.6 | 318.0  |
| 22.5°  | 307.6  | 306.2 | 306.2 | 305.8 | 306.7 | 304.9 | 306.7 | 307.1 | 307.1 | 308.5 | 308.5  |
| 25°    | 299.0  | 298.0 | 298.0 | 299.0 | 299.0 | 299.0 | 299.0 | 300.8 | 299.4 | 299.9 | 299.4  |
| 27.5°  | 291.2  | 291.7 | 292.2 | 292.6 | 292.2 | 292.6 | 293.1 | 294.0 | 294.4 | 294.0 | 293.1  |
| 30°    | 284.0  | 285.3 | 285.8 | 285.8 | 286.7 | 287.2 | 287.6 | 287.6 | 288.1 | 286.7 | 287.6  |
| 32.5°  | 278.5  | 278.5 | 279.4 | 279.9 | 280.8 | 281.3 | 281.3 | 282.2 | 281.7 | 280.4 | 280.8  |
| 35°    | 270.8  | 270.8 | 272.6 | 273.6 | 274.9 | 274.5 | 274.9 | 274.9 | 275.4 | 274.5 | 273.1  |
| 37.5°  | 263.1  | 264.0 | 264.0 | 265.8 | 266.3 | 266.7 | 266.3 | 267.2 | 266.7 | 265.8 | 265.4  |
| 40°    | 254.0  | 253.6 | 254.0 | 255.4 | 255.9 | 255.9 | 255.9 | 256.8 | 256.8 | 256.8 | 256.3  |
| 42.5°  | 242.7  | 244.1 | 243.6 | 245.0 | 244.5 | 244.5 | 245.4 | 246.3 | 246.8 | 245.4 | 245.9  |
| 45°    | 231.8  | 231.8 | 232.7 | 232.7 | 233.2 | 233.2 | 235.0 | 234.1 | 235.0 | 234.1 | 234.5  |
| 47.5°  | 220.0  | 220.5 | 220.5 | 220.9 | 221.8 | 222.7 | 221.8 | 222.3 | 222.3 | 222.7 | 221.8  |
| 50°    | 206.9  | 206.9 | 207.8 | 209.1 | 210.9 | 210.0 | 209.6 | 211.4 | 210.0 | 210.0 | 209.1  |
| 52.5°  | 193.3  | 194.6 | 195.1 | 196.4 | 197.8 | 198.2 | 198.7 | 197.8 | 198.2 | 196.9 | 197.3  |
| 55°    | 180.1  | 180.6 | 182.4 | 183.7 | 185.1 | 185.1 | 184.6 | 185.1 | 185.5 | 183.7 | 183.7  |
| 57.5°  | 166.9  | 168.3 | 170.1 | 170.1 | 171.9 | 171.9 | 171.5 | 171.5 | 171.9 | 170.6 | 170.1  |
| 60°    | 152.9  | 154.2 | 156.5 | 156.5 | 159.2 | 159.7 | 158.8 | 157.9 | 157.9 | 156.5 | 157.0  |
| 62.5°  | 137.9  | 139.3 | 140.6 | 142.9 | 144.7 | 143.8 | 145.6 | 143.8 | 144.3 | 141.5 | 141.5  |
| 65°    | 124.8  | 125.2 | 127.5 | 129.7 | 129.7 | 130.7 | 129.7 | 130.2 | 128.8 | 128.8 | 127.0  |
| 67.5°  | 109.3  | 109.3 | 111.6 | 113.9 | 116.1 | 116.1 | 116.1 | 114.8 | 114.8 | 113.4 | 113.4  |
| 70°    | 95.7   | 95.3  | 97.5  | 98.9  | 100.3 | 100.7 | 99.8  | 99.3  | 98.4  | 97.1  | 96.6   |
| 72.5°  | 78.9   | 79.8  | 82.1  | 83.0  | 85.3  | 84.8  | 87.1  | 84.4  | 84.4  | 82.1  | 81.7   |
| 75°    | 64.0   | 64.9  | 67.1  | 68.5  | 69.9  | 69.9  | 71.2  | 69.9  | 68.0  | 67.1  | 66.7   |
| 77.5°  | 50.8   | 50.4  | 52.2  | 54.4  | 54.9  | 54.4  | 55.3  | 54.9  | 53.1  | 53.1  | 52.2   |
| 80°    | 36.3   | 37.7  | 39.5  | 39.0  | 40.8  | 40.4  | 40.4  | 39.5  | 39.5  | 38.1  | 39.0   |
| 82.5°  | 24.0   | 25.4  | 25.9  | 25.4  | 25.9  | 26.8  | 27.2  | 26.8  | 26.8  | 25.9  | 26.3   |
| 85°    | 12.7   | 12.7  | 13.6  | 14.1  | 13.6  | 13.6  | 14.1  | 15.4  | 14.5  | 13.6  | 14.5   |
| 87.5°  | 4.1    | 3.6   | 3.6   | 4.1   | 3.6   | 3.6   | 4.1   | 4.1   | 4.5   | 4.5   | 4.5    |
| 90°    | 32.5   | 32.8  | 33.3  | 33.8  | 34.3  | 34.8  | 34.3  | 33.8  | 33.3  | 32.8  | 32.5   |
| 92.5°  | 38.3   | 38.4  | 38.7  | 39.0  | 39.2  | 39.5  | 39.2  | 39.0  | 38.7  | 38.4  | 38.3   |
| 95°    | 44.1   | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1   |
| 97.5°  | 46.4   | 46.5  | 46.8  | 47.1  | 47.3  | 47.6  | 47.3  | 47.1  | 46.8  | 46.5  | 46.4   |
| 100°   | 47.6   | 47.7  | 48.0  | 48.3  | 48.5  | 48.8  | 48.5  | 48.3  | 48.0  | 47.7  | 47.6   |
| 102.5° | 47.6   | 47.9  | 48.4  | 48.9  | 49.4  | 49.9  | 49.4  | 48.9  | 48.4  | 47.9  | 47.6   |
| 105°   | 48.8   | 49.1  | 49.6  | 50.1  | 50.6  | 51.1  | 50.6  | 50.1  | 49.6  | 49.1  | 48.8   |
| 107.5° | 272.8  | 255.9 | 222.1 | 188.3 | 154.5 | 120.7 | 154.5 | 188.3 | 222.1 | 255.9 | 272.8  |
| 110°   | 485.3  | 466.9 | 430.0 | 393.1 | 356.2 | 319.3 | 356.2 | 393.1 | 430.0 | 466.9 | 485.3  |



TEST NUMBER: P1010560

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 607.2  | 606.9  | 606.4  | 605.9  | 605.4  | 604.9  | 605.4  | 605.9  | 606.4  | 606.9  | 607.2  |
| 115°   | 678.0  | 678.5  | 679.5  | 680.6  | 681.6  | 682.6  | 681.6  | 680.6  | 679.5  | 678.5  | 678.0  |
| 117.5° | 744.2  | 744.3  | 744.6  | 744.8  | 745.1  | 745.3  | 745.1  | 744.8  | 744.6  | 744.3  | 744.2  |
| 120°   | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  | 810.4  |
| 122.5° | 873.0  | 873.1  | 873.4  | 873.7  | 873.9  | 874.2  | 873.9  | 873.7  | 873.4  | 873.1  | 873.0  |
| 125°   | 931.1  | 931.4  | 931.9  | 932.4  | 932.9  | 933.4  | 932.9  | 932.4  | 931.9  | 931.4  | 931.1  |
| 127.5° | 993.8  | 993.5  | 993.0  | 992.5  | 992.0  | 991.5  | 992.0  | 992.5  | 993.0  | 993.5  | 993.8  |
| 130°   | 1049.5 | 1049.2 | 1048.7 | 1048.2 | 1047.7 | 1047.2 | 1047.7 | 1048.2 | 1048.7 | 1049.2 | 1049.5 |
| 132.5° | 1101.8 | 1101.4 | 1100.6 | 1099.9 | 1099.1 | 1098.3 | 1099.1 | 1099.9 | 1100.6 | 1101.4 | 1101.8 |
| 135°   | 1154.0 | 1153.6 | 1152.8 | 1152.1 | 1151.3 | 1150.5 | 1151.3 | 1152.1 | 1152.8 | 1153.6 | 1154.0 |
| 137.5° | 1202.8 | 1202.5 | 1202.0 | 1201.5 | 1200.9 | 1200.4 | 1200.9 | 1201.5 | 1202.0 | 1202.5 | 1202.8 |
| 140°   | 1246.9 | 1246.6 | 1246.1 | 1245.6 | 1245.0 | 1244.5 | 1245.0 | 1245.6 | 1246.1 | 1246.6 | 1246.9 |
| 142.5° | 1288.7 | 1288.3 | 1287.5 | 1286.8 | 1286.0 | 1285.2 | 1286.0 | 1286.8 | 1287.5 | 1288.3 | 1288.7 |
| 145°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 147.5° | 1363.0 | 1362.4 | 1361.1 | 1359.8 | 1358.5 | 1357.2 | 1358.5 | 1359.8 | 1361.1 | 1362.4 | 1363.0 |
| 150°   | 1395.5 | 1395.1 | 1394.3 | 1393.6 | 1392.8 | 1392.0 | 1392.8 | 1393.6 | 1394.3 | 1395.1 | 1395.5 |
| 152.5° | 1425.7 | 1425.1 | 1423.8 | 1422.5 | 1421.2 | 1419.9 | 1421.2 | 1422.5 | 1423.8 | 1425.1 | 1425.7 |
| 155°   | 1452.4 | 1451.6 | 1450.1 | 1448.5 | 1447.0 | 1445.4 | 1447.0 | 1448.5 | 1450.1 | 1451.6 | 1452.4 |
| 157.5° | 1476.7 | 1475.7 | 1473.6 | 1471.6 | 1469.5 | 1467.5 | 1469.5 | 1471.6 | 1473.6 | 1475.7 | 1476.7 |
| 160°   | 1496.5 | 1495.6 | 1493.8 | 1492.0 | 1490.2 | 1488.4 | 1490.2 | 1492.0 | 1493.8 | 1495.6 | 1496.5 |
| 162.5° | 1515.1 | 1514.3 | 1512.8 | 1511.2 | 1509.7 | 1508.1 | 1509.7 | 1511.2 | 1512.8 | 1514.3 | 1515.1 |
| 165°   | 1531.3 | 1530.4 | 1528.6 | 1526.8 | 1525.0 | 1523.2 | 1525.0 | 1526.8 | 1528.6 | 1530.4 | 1531.3 |
| 167.5° | 1544.1 | 1543.1 | 1541.0 | 1538.9 | 1536.9 | 1534.8 | 1536.9 | 1538.9 | 1541.0 | 1543.1 | 1544.1 |
| 170°   | 1554.5 | 1553.5 | 1551.4 | 1549.3 | 1547.3 | 1545.2 | 1547.3 | 1549.3 | 1551.4 | 1553.5 | 1554.5 |
| 172.5° | 1561.5 | 1560.3 | 1558.0 | 1555.7 | 1553.3 | 1551.0 | 1553.3 | 1555.7 | 1558.0 | 1560.3 | 1561.5 |
| 175°   | 1566.1 | 1565.1 | 1563.0 | 1560.9 | 1558.9 | 1556.8 | 1558.9 | 1560.9 | 1563.0 | 1565.1 | 1566.1 |
| 177.5° | 1569.6 | 1568.3 | 1565.7 | 1563.2 | 1560.6 | 1558.0 | 1560.6 | 1563.2 | 1565.7 | 1568.3 | 1569.6 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2 | 468.2  | 468.2 |
| 2.5°   | 444.6 | 445.5 | 445.9 | 444.1 | 442.8 | 445.0 | 448.2 | 450.5 | 452.3 | 454.6  | 455.9 |
| 5°     | 418.3 | 421.4 | 421.4 | 422.3 | 423.7 | 426.0 | 431.9 | 436.0 | 439.6 | 442.3  | 444.6 |
| 7.5°   | 396.0 | 398.3 | 399.7 | 401.9 | 404.2 | 407.4 | 414.2 | 420.1 | 425.5 | 428.7  | 432.3 |
| 10°    | 376.1 | 377.9 | 380.2 | 381.5 | 385.6 | 390.1 | 398.8 | 403.7 | 410.1 | 415.1  | 419.6 |
| 12.5°  | 357.0 | 363.4 | 364.7 | 364.3 | 367.9 | 372.9 | 381.5 | 389.2 | 396.0 | 401.0  | 406.0 |
| 15°    | 343.4 | 345.7 | 348.4 | 347.9 | 355.7 | 357.0 | 364.3 | 373.4 | 382.4 | 385.6  | 390.1 |
| 17.5°  | 328.4 | 332.1 | 334.8 | 336.2 | 338.4 | 343.4 | 350.2 | 357.0 | 368.8 | 369.3  | 381.1 |
| 20°    | 316.6 | 320.3 | 322.1 | 323.9 | 325.3 | 331.2 | 337.1 | 344.8 | 354.3 | 359.3  | 365.6 |
| 22.5°  | 308.9 | 310.7 | 312.1 | 313.5 | 315.3 | 318.5 | 325.7 | 334.3 | 340.7 | 346.1  | 350.2 |
| 25°    | 299.9 | 301.7 | 303.5 | 304.4 | 305.8 | 307.6 | 313.0 | 319.8 | 328.9 | 332.5  | 336.6 |
| 27.5°  | 293.5 | 293.5 | 294.4 | 294.4 | 296.2 | 298.0 | 302.1 | 308.5 | 315.7 | 320.3  | 325.7 |
| 30°    | 286.7 | 286.3 | 286.7 | 286.3 | 285.8 | 288.5 | 292.2 | 297.6 | 302.6 | 308.0  | 311.7 |
| 32.5°  | 279.9 | 279.4 | 279.4 | 279.9 | 278.1 | 279.4 | 281.3 | 286.3 | 291.7 | 294.4  | 298.5 |
| 35°    | 272.6 | 271.7 | 271.7 | 271.7 | 270.8 | 269.9 | 271.7 | 276.3 | 279.9 | 283.5  | 286.7 |
| 37.5°  | 265.4 | 264.0 | 264.0 | 263.1 | 262.2 | 260.8 | 260.8 | 264.5 | 269.5 | 270.8  | 274.9 |
| 40°    | 255.4 | 255.4 | 254.5 | 254.0 | 253.1 | 252.2 | 250.9 | 254.0 | 258.6 | 259.9  | 263.1 |
| 42.5°  | 245.4 | 244.1 | 243.6 | 243.6 | 243.6 | 242.2 | 241.3 | 243.6 | 246.3 | 248.6  | 250.4 |
| 45°    | 234.1 | 233.2 | 233.6 | 233.2 | 232.3 | 231.8 | 231.4 | 232.3 | 235.4 | 236.4  | 238.6 |
| 47.5°  | 221.8 | 221.4 | 221.4 | 220.9 | 220.5 | 220.9 | 219.1 | 221.4 | 222.3 | 223.2  | 225.0 |
| 50°    | 209.1 | 208.7 | 208.2 | 207.8 | 207.8 | 208.2 | 207.8 | 207.8 | 209.6 | 210.5  | 212.3 |
| 52.5°  | 196.4 | 195.1 | 195.1 | 194.6 | 194.6 | 193.7 | 194.6 | 195.1 | 196.0 | 196.9  | 197.8 |
| 55°    | 182.8 | 182.8 | 181.5 | 181.5 | 180.6 | 180.6 | 181.0 | 180.6 | 182.4 | 183.3  | 183.3 |
| 57.5°  | 169.7 | 167.9 | 168.3 | 167.4 | 166.5 | 166.0 | 166.0 | 166.9 | 167.9 | 167.9  | 168.8 |
| 60°    | 155.6 | 153.8 | 153.3 | 151.5 | 152.4 | 151.1 | 151.5 | 151.5 | 153.3 | 152.4  | 153.3 |
| 62.5°  | 141.5 | 139.3 | 137.9 | 137.0 | 137.0 | 137.5 | 136.5 | 136.1 | 137.0 | 137.9  | 139.7 |
| 65°    | 126.6 | 125.2 | 123.8 | 122.5 | 122.5 | 122.0 | 122.9 | 121.6 | 121.1 | 121.6  | 122.5 |
| 67.5°  | 111.1 | 109.8 | 108.4 | 107.1 | 107.5 | 106.2 | 105.2 | 106.6 | 105.7 | 106.2  | 107.1 |
| 70°    | 96.2  | 95.3  | 92.5  | 91.6  | 91.2  | 91.6  | 91.2  | 90.3  | 91.6  | 91.2   | 91.6  |
| 72.5°  | 81.2  | 80.3  | 78.9  | 76.7  | 76.7  | 76.2  | 75.8  | 75.8  | 75.3  | 75.3   | 75.3  |
| 75°    | 66.7  | 64.9  | 63.5  | 63.1  | 62.1  | 61.7  | 61.2  | 60.3  | 60.8  | 61.2   | 60.3  |
| 77.5°  | 51.7  | 49.4  | 49.0  | 49.0  | 47.6  | 47.6  | 48.1  | 47.6  | 47.2  | 47.2   | 47.2  |
| 80°    | 38.1  | 36.3  | 36.3  | 35.4  | 34.5  | 34.5  | 34.5  | 34.5  | 34.0  | 33.6   | 34.0  |
| 82.5°  | 24.5  | 24.0  | 23.6  | 23.6  | 24.5  | 22.7  | 23.6  | 23.1  | 22.7  | 22.7   | 22.2  |
| 85°    | 13.6  | 14.1  | 13.6  | 14.1  | 13.2  | 13.6  | 13.6  | 13.6  | 13.2  | 13.6   | 12.7  |
| 87.5°  | 5.0   | 5.0   | 5.0   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.9   | 5.4    | 5.4   |
| 90°    | 32.0  | 31.0  | 29.9  | 28.9  | 27.9  | 24.5  | 21.2  | 17.8  | 14.5  | 12.8   | 11.5  |
| 92.5°  | 37.4  | 35.6  | 33.8  | 32.0  | 30.2  | 27.9  | 25.5  | 23.2  | 20.9  | 19.7   | 20.5  |
| 95°    | 43.2  | 41.4  | 39.6  | 37.8  | 36.0  | 33.2  | 30.3  | 27.5  | 24.6  | 23.2   | 28.5  |
| 97.5°  | 45.4  | 43.3  | 41.3  | 39.2  | 37.2  | 50.4  | 63.5  | 76.7  | 89.8  | 96.4   | 100.0 |
| 100°   | 46.6  | 44.5  | 42.4  | 40.4  | 38.3  | 78.5  | 118.8 | 159.0 | 199.3 | 219.4  | 216.8 |
| 102.5° | 51.9  | 60.4  | 68.9  | 77.4  | 85.9  | 130.8 | 175.7 | 220.6 | 265.5 | 287.9  | 286.2 |
| 105°   | 71.6  | 117.3 | 163.0 | 208.6 | 254.3 | 277.5 | 300.7 | 323.9 | 347.1 | 358.7  | 357.3 |
| 107.5° | 292.7 | 332.4 | 372.1 | 411.9 | 451.6 | 447.7 | 443.9 | 440.0 | 436.1 | 434.2  | 433.0 |
| 110°   | 489.6 | 498.1 | 506.6 | 515.1 | 523.6 | 520.8 | 517.9 | 515.1 | 512.2 | 510.8  | 509.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 606.0  | 603.7  | 601.4  | 599.0  | 596.7  | 593.9  | 591.1  | 588.2  | 585.4  | 584.0  | 583.1  |
| 115°   | 676.7  | 674.1  | 671.6  | 669.0  | 666.4  | 664.1  | 661.7  | 659.4  | 657.1  | 655.9  | 655.1  |
| 117.5° | 743.2  | 741.1  | 739.0  | 737.0  | 734.9  | 733.6  | 732.3  | 731.0  | 729.7  | 729.1  | 728.2  |
| 120°   | 809.4  | 807.3  | 805.2  | 803.2  | 801.1  | 800.3  | 799.5  | 798.8  | 798.0  | 797.6  | 796.4  |
| 122.5° | 872.4  | 871.1  | 869.8  | 868.5  | 867.2  | 866.2  | 865.2  | 864.1  | 863.1  | 862.6  | 861.7  |
| 125°   | 930.8  | 930.3  | 929.8  | 929.3  | 928.8  | 927.8  | 926.7  | 925.7  | 924.6  | 924.1  | 923.1  |
| 127.5° | 993.4  | 992.6  | 991.9  | 991.1  | 990.3  | 989.0  | 987.7  | 986.4  | 985.1  | 984.5  | 983.5  |
| 130°   | 1049.0 | 1048.0 | 1046.9 | 1045.9 | 1044.9 | 1043.9 | 1042.8 | 1041.8 | 1040.7 | 1040.2 | 1039.2 |
| 132.5° | 1101.3 | 1100.2 | 1099.2 | 1098.1 | 1097.1 | 1096.3 | 1095.5 | 1094.8 | 1094.0 | 1093.6 | 1092.6 |
| 135°   | 1153.6 | 1152.8 | 1152.1 | 1151.3 | 1150.5 | 1149.5 | 1148.5 | 1147.4 | 1146.4 | 1145.9 | 1145.1 |
| 137.5° | 1202.2 | 1200.9 | 1199.6 | 1198.3 | 1197.0 | 1196.5 | 1195.9 | 1195.4 | 1194.9 | 1194.6 | 1193.6 |
| 140°   | 1246.4 | 1245.3 | 1244.3 | 1243.2 | 1242.2 | 1241.4 | 1240.6 | 1239.9 | 1239.1 | 1238.7 | 1237.9 |
| 142.5° | 1288.3 | 1287.5 | 1286.8 | 1286.0 | 1285.2 | 1284.4 | 1283.6 | 1282.9 | 1282.1 | 1281.7 | 1280.9 |
| 145°   | 1326.7 | 1326.2 | 1325.7 | 1325.2 | 1324.7 | 1324.2 | 1323.6 | 1323.1 | 1322.6 | 1322.3 | 1321.4 |
| 147.5° | 1362.7 | 1362.2 | 1361.7 | 1361.1 | 1360.6 | 1360.1 | 1359.6 | 1359.1 | 1358.6 | 1358.3 | 1357.7 |
| 150°   | 1395.2 | 1394.7 | 1394.2 | 1393.7 | 1393.2 | 1392.7 | 1392.1 | 1391.6 | 1391.1 | 1390.8 | 1390.4 |
| 152.5° | 1425.2 | 1424.1 | 1423.1 | 1422.0 | 1421.0 | 1420.8 | 1420.5 | 1420.3 | 1420.0 | 1419.9 | 1419.8 |
| 155°   | 1451.8 | 1450.5 | 1449.2 | 1447.9 | 1446.6 | 1446.3 | 1446.1 | 1445.8 | 1445.5 | 1445.4 | 1445.7 |
| 157.5° | 1475.9 | 1474.4 | 1472.9 | 1471.3 | 1469.8 | 1470.0 | 1470.3 | 1470.5 | 1470.8 | 1470.9 | 1470.9 |
| 160°   | 1495.7 | 1494.2 | 1492.6 | 1491.1 | 1489.5 | 1489.8 | 1490.0 | 1490.3 | 1490.6 | 1490.7 | 1490.8 |
| 162.5° | 1514.2 | 1512.4 | 1510.5 | 1508.7 | 1506.9 | 1507.2 | 1507.4 | 1507.7 | 1508.0 | 1508.1 | 1508.5 |
| 165°   | 1530.3 | 1528.2 | 1526.1 | 1524.1 | 1522.0 | 1522.3 | 1522.5 | 1522.8 | 1523.1 | 1523.2 | 1523.6 |
| 167.5° | 1543.1 | 1541.0 | 1538.9 | 1536.9 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1535.3 |
| 170°   | 1553.5 | 1551.4 | 1549.3 | 1547.3 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.2 | 1545.7 |
| 172.5° | 1560.5 | 1558.4 | 1556.3 | 1554.3 | 1552.2 | 1551.9 | 1551.7 | 1551.4 | 1551.1 | 1551.0 | 1551.6 |
| 175°   | 1565.2 | 1563.4 | 1561.6 | 1559.8 | 1558.0 | 1557.7 | 1557.5 | 1557.2 | 1556.9 | 1556.8 | 1557.5 |
| 177.5° | 1568.6 | 1566.5 | 1564.4 | 1562.4 | 1560.3 | 1560.1 | 1559.8 | 1559.6 | 1559.3 | 1559.2 | 1559.8 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 468.2 | 468.2 | 468.2 | 468.2 |
| 2.5°   | 458.2 | 459.5 | 464.1 | 469.5 |
| 5°     | 449.1 | 452.7 | 459.1 | 467.7 |
| 7.5°   | 439.1 | 444.6 | 453.6 | 464.5 |
| 10°    | 427.8 | 435.5 | 446.8 | 460.5 |
| 12.5°  | 415.5 | 425.5 | 440.0 | 454.1 |
| 15°    | 407.8 | 417.8 | 431.0 | 446.4 |
| 17.5°  | 392.9 | 404.7 | 418.3 | 440.0 |
| 20°    | 377.4 | 390.6 | 408.3 | 430.1 |
| 22.5°  | 365.6 | 379.7 | 396.5 | 419.6 |
| 25°    | 351.6 | 366.1 | 384.2 | 408.3 |
| 27.5°  | 336.6 | 351.1 | 371.5 | 396.9 |
| 30°    | 325.3 | 339.3 | 358.8 | 386.1 |
| 32.5°  | 311.7 | 325.3 | 345.7 | 374.3 |
| 35°    | 296.2 | 311.7 | 331.2 | 360.2 |
| 37.5°  | 284.4 | 298.5 | 318.9 | 346.6 |
| 40°    | 271.7 | 284.0 | 303.9 | 331.2 |
| 42.5°  | 258.1 | 271.7 | 289.0 | 316.2 |
| 45°    | 245.4 | 255.4 | 273.1 | 299.0 |
| 47.5°  | 231.8 | 243.2 | 256.8 | 276.7 |
| 50°    | 217.3 | 226.8 | 241.8 | 255.4 |
| 52.5°  | 203.2 | 210.9 | 223.6 | 234.1 |
| 55°    | 188.3 | 196.0 | 205.5 | 211.9 |
| 57.5°  | 174.2 | 179.6 | 186.0 | 190.1 |
| 60°    | 157.0 | 162.4 | 166.5 | 170.6 |
| 62.5°  | 141.5 | 145.6 | 147.9 | 150.2 |
| 65°    | 125.7 | 127.9 | 129.3 | 131.1 |
| 67.5°  | 108.4 | 110.7 | 111.1 | 113.9 |
| 70°    | 92.5  | 93.0  | 93.9  | 95.3  |
| 72.5°  | 77.6  | 78.5  | 78.0  | 78.9  |
| 75°    | 62.1  | 63.1  | 62.1  | 63.1  |
| 77.5°  | 47.2  | 48.1  | 48.1  | 49.4  |
| 80°    | 34.0  | 34.5  | 34.9  | 34.9  |
| 82.5°  | 22.2  | 23.6  | 22.7  | 23.1  |
| 85°    | 12.7  | 13.2  | 13.2  | 13.6  |
| 87.5°  | 5.9   | 6.4   | 5.9   | 6.8   |
| 90°    | 8.9   | 6.4   | 3.8   | 1.2   |
| 92.5°  | 22.0  | 23.6  | 25.1  | 26.7  |
| 95°    | 39.1  | 49.6  | 60.2  | 70.8  |
| 97.5°  | 107.2 | 114.5 | 121.7 | 128.9 |
| 100°   | 211.7 | 206.5 | 201.4 | 196.2 |
| 102.5° | 282.9 | 279.5 | 276.2 | 272.8 |
| 105°   | 354.5 | 351.6 | 348.8 | 346.0 |
| 107.5° | 430.7 | 428.4 | 426.1 | 423.8 |
| 110°   | 507.7 | 505.6 | 503.6 | 501.5 |

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CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 581.3  | 579.4  | 577.6  | 575.8  |
| 115°   | 653.6  | 652.1  | 650.5  | 649.0  |
| 117.5° | 726.4  | 724.6  | 722.8  | 721.0  |
| 120°   | 794.1  | 791.8  | 789.4  | 787.1  |
| 122.5° | 859.9  | 858.1  | 856.3  | 854.5  |
| 125°   | 921.0  | 918.9  | 916.9  | 914.8  |
| 127.5° | 981.4  | 979.3  | 977.3  | 975.2  |
| 130°   | 1037.1 | 1035.0 | 1033.0 | 1030.9 |
| 132.5° | 1090.5 | 1088.4 | 1086.4 | 1084.3 |
| 135°   | 1143.6 | 1142.0 | 1140.5 | 1138.9 |
| 137.5° | 1191.5 | 1189.4 | 1187.4 | 1185.3 |
| 140°   | 1236.4 | 1234.9 | 1233.3 | 1231.8 |
| 142.5° | 1279.4 | 1277.8 | 1276.3 | 1274.7 |
| 145°   | 1319.6 | 1317.8 | 1316.0 | 1314.2 |
| 147.5° | 1356.4 | 1355.1 | 1353.8 | 1352.5 |
| 150°   | 1389.6 | 1388.9 | 1388.1 | 1387.3 |
| 152.5° | 1419.5 | 1419.2 | 1419.0 | 1418.7 |
| 155°   | 1446.2 | 1446.7 | 1447.2 | 1447.7 |
| 157.5° | 1470.9 | 1470.9 | 1470.9 | 1470.9 |
| 160°   | 1491.1 | 1491.3 | 1491.6 | 1491.8 |
| 162.5° | 1509.3 | 1510.0 | 1510.8 | 1511.6 |
| 165°   | 1524.4 | 1525.1 | 1525.9 | 1526.7 |
| 167.5° | 1536.3 | 1537.4 | 1538.4 | 1539.4 |
| 170°   | 1546.8 | 1547.8 | 1548.9 | 1549.9 |
| 172.5° | 1552.9 | 1554.2 | 1555.5 | 1556.8 |
| 175°   | 1558.8 | 1560.1 | 1561.4 | 1562.7 |
| 177.5° | 1561.1 | 1562.4 | 1563.7 | 1565.0 |
| 180°   | 1562.7 | 1562.7 | 1562.7 | 1562.7 |

(END OF REPORT)