

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: P1013103

Luminaire Tested: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013103  
REPORT IS A COMBINATION OF REPORTS P996209 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

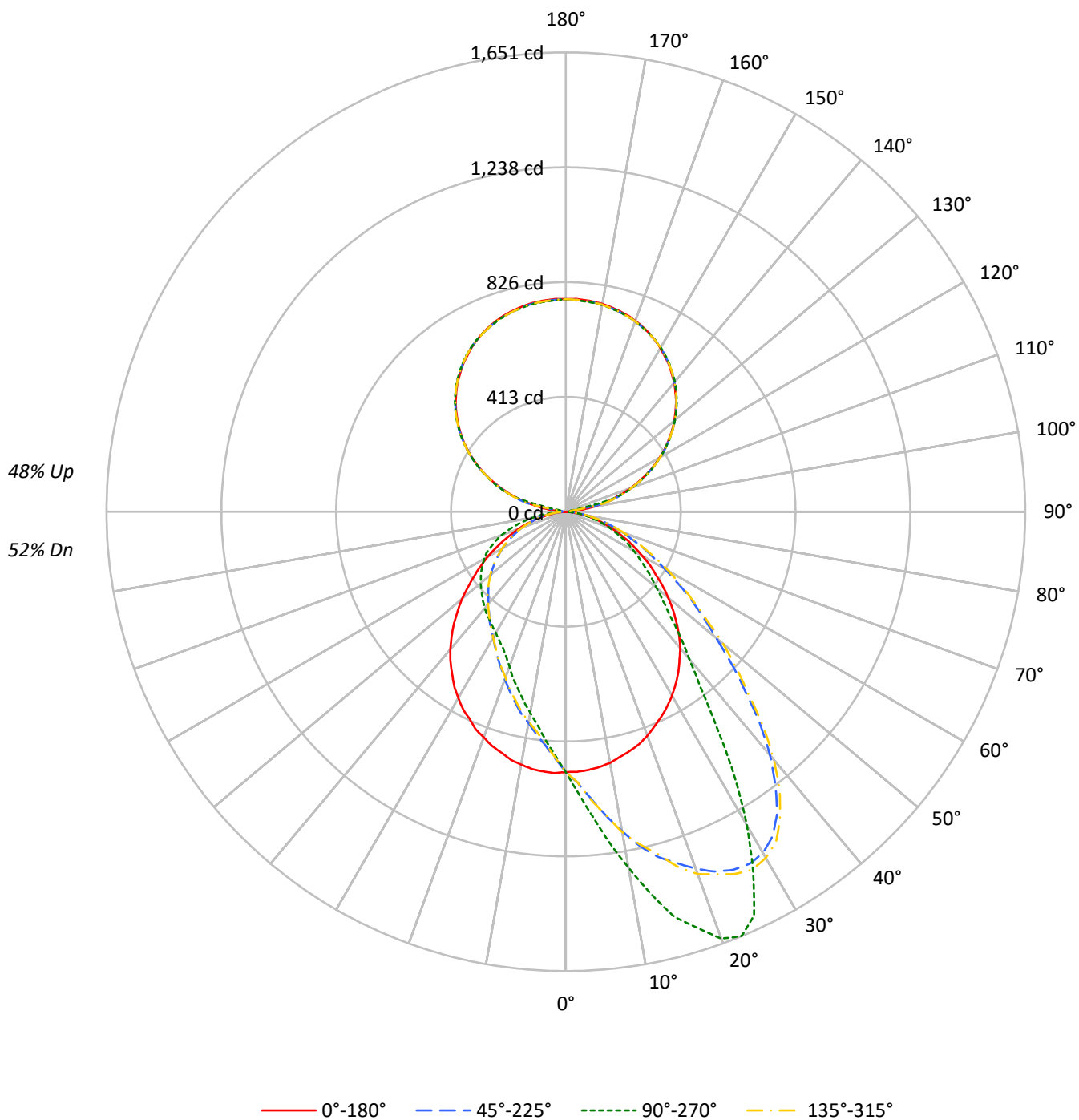
Lumens per Lamp: N/A  
Luminaire Lumens: 4947.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 39.4  
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: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 |
| 1   | 99  | 94  | 90  | 87  | 91  | 87  | 84  | 81  | 74 | 72 | 70 | 63 | 61 | 59 | 52 | 51 | 50 |
| 2   | 90  | 83  | 77  | 71  | 83  | 77  | 71  | 67  | 66 | 62 | 58 | 55 | 52 | 50 | 46 | 44 | 42 |
| 3   | 82  | 73  | 66  | 60  | 76  | 68  | 61  | 56  | 58 | 53 | 49 | 49 | 46 | 43 | 41 | 38 | 36 |
| 4   | 75  | 65  | 57  | 51  | 69  | 60  | 53  | 48  | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 31 |
| 5   | 69  | 58  | 50  | 44  | 64  | 54  | 47  | 41  | 46 | 41 | 37 | 40 | 35 | 32 | 33 | 30 | 27 |
| 6   | 64  | 52  | 44  | 38  | 59  | 48  | 41  | 36  | 42 | 36 | 32 | 36 | 31 | 28 | 30 | 27 | 24 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 32  | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 |
| 8   | 55  | 43  | 35  | 30  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 |
| 9   | 51  | 39  | 31  | 26  | 47  | 36  | 30  | 25  | 32 | 26 | 23 | 28 | 23 | 20 | 23 | 20 | 18 |
| 10  | 48  | 36  | 29  | 24  | 44  | 34  | 27  | 23  | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 |

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

|     | 0°   | 90°   | 180° | 270° |
|-----|------|-------|------|------|
| 0°  | 7627 | 7627  | 7627 | 7627 |
| 5°  | 7608 | 8750  | 7652 | 6575 |
| 10° | 7551 | 10209 | 7608 | 5769 |
| 15° | 7460 | 11768 | 7512 | 5161 |
| 20° | 7364 | 12762 | 7417 | 4627 |
| 25° | 7223 | 12615 | 7292 | 4233 |
| 30° | 7085 | 10427 | 7171 | 4030 |
| 35° | 6892 | 7770  | 6968 | 3907 |
| 40° | 6665 | 5853  | 6730 | 3847 |
| 45° | 6321 | 4698  | 6400 | 3765 |
| 50° | 5909 | 3958  | 5996 | 3727 |
| 55° | 5425 | 3445  | 5510 | 3683 |
| 60° | 4954 | 3033  | 5099 | 3621 |
| 65° | 4512 | 2610  | 4556 | 3471 |
| 70° | 3993 | 2148  | 4080 | 3197 |
| 75° | 3484 | 1650  | 3461 | 2716 |
| 80° | 2739 | 1085  | 2710 | 2061 |
| 85° | 1805 | 486   | 1688 | 1201 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 9863 cd/sqm

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CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.0   | 1.8       |
| 10°-20°   | 281.0  | 5.7       |
| 20°-30°   | 446.4  | 9.0       |
| 30°-40°   | 496.0  | 10.0      |
| 40°-50°   | 451.0  | 9.1       |
| 50°-60°   | 368.6  | 7.5       |
| 60°-70°   | 263.1  | 5.3       |
| 70°-80°   | 144.8  | 2.9       |
| 80°-90°   | 40.7   | 0.8       |
| 90°-100°  | 25.4   | 0.5       |
| 100°-110° | 167.0  | 3.4       |
| 110°-120° | 319.0  | 6.4       |
| 120°-130° | 404.9  | 8.2       |
| 130°-140° | 433.2  | 8.8       |
| 140°-150° | 405.0  | 8.2       |
| 150°-160° | 326.6  | 6.6       |
| 160°-170° | 210.7  | 4.3       |
| 170°-180° | 72.6   | 1.5       |
| 0°-30°    | 818.4  | 16.5      |
| 0°-40°    | 1314.4 | 26.6      |
| 0°-60°    | 2134.0 | 43.1      |
| 0°-90°    | 2582.6 | 52.2      |
| 90°-120°  | 511.4  | 10.3      |
| 90°-150°  | 1754.5 | 35.5      |
| 90°-180°  | 2364.0 | 47.8      |
| 0°-180°   | 4947.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 935 | 935  | 935  | 935  | 935  |      |
| 5°   | 932 | 1097 | 937  | 824  | 932  | 88   |
| 15°  | 890 | 1507 | 896  | 661  | 890  | 251  |
| 25°  | 812 | 1600 | 820  | 537  | 812  | 374  |
| 35°  | 704 | 946  | 712  | 476  | 704  | 440  |
| 45°  | 562 | 531  | 569  | 425  | 562  | 433  |
| 55°  | 395 | 347  | 401  | 371  | 395  | 355  |
| 65°  | 246 | 223  | 249  | 297  | 246  | 243  |
| 75°  | 121 | 112  | 120  | 184  | 121  | 127  |
| 85°  | 25  | 23   | 23   | 57   | 25   | 29   |
| 90°  | 2   | 17   | 2    | 17   | 2    | 3    |
| 95°  | 31  | 17   | 31   | 17   | 31   | 39   |
| 105° | 172 | 163  | 172  | 163  | 172  | 180  |
| 115° | 321 | 324  | 321  | 324  | 321  | 316  |
| 125° | 452 | 455  | 452  | 455  | 452  | 403  |
| 135° | 560 | 564  | 560  | 564  | 560  | 432  |
| 145° | 646 | 649  | 646  | 649  | 646  | 404  |
| 155° | 708 | 708  | 708  | 708  | 708  | 327  |
| 165° | 747 | 744  | 747  | 744  | 747  | 211  |
| 175° | 764 | 760  | 764  | 760  | 764  | 73   |
| 180° | 764 | 764  | 764  | 764  | 764  |      |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 935.3 | 935.3 | 935.3 | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  |
| 2.5°   | 935.3 | 944.6 | 948.5 | 951.6  | 961.7  | 964.8  | 965.6  | 970.2  | 974.1  | 974.9  | 974.9  |
| 5°     | 931.5 | 946.2 | 957.8 | 968.7  | 984.9  | 991.9  | 1000.4 | 1009.7 | 1022.1 | 1029.9 | 1033.8 |
| 7.5°   | 925.3 | 947.0 | 964.8 | 983.4  | 1005.9 | 1019.8 | 1027.6 | 1052.4 | 1069.4 | 1083.4 | 1100.4 |
| 10°    | 916.0 | 943.9 | 969.4 | 996.6  | 1028.3 | 1045.4 | 1062.4 | 1092.6 | 1116.7 | 1143.8 | 1165.5 |
| 12.5°  | 902.0 | 938.4 | 969.4 | 1007.4 | 1046.9 | 1067.1 | 1087.2 | 1139.9 | 1167.8 | 1191.8 | 1230.6 |
| 15°    | 889.6 | 926.0 | 970.2 | 1009.0 | 1057.8 | 1088.0 | 1117.4 | 1151.5 | 1195.7 | 1247.6 | 1284.8 |
| 17.5°  | 875.7 | 921.4 | 962.5 | 1016.7 | 1071.0 | 1099.6 | 1123.6 | 1176.3 | 1238.3 | 1289.5 | 1323.6 |
| 20°    | 856.3 | 902.8 | 957.0 | 1014.4 | 1078.7 | 1101.2 | 1132.9 | 1203.5 | 1259.3 | 1309.6 | 1365.4 |
| 22.5°  | 833.8 | 888.1 | 945.4 | 1000.4 | 1067.1 | 1114.3 | 1149.2 | 1211.2 | 1278.6 | 1336.8 | 1399.5 |
| 25°    | 812.1 | 871.0 | 921.4 | 996.6  | 1067.1 | 1098.8 | 1138.4 | 1212.0 | 1285.6 | 1356.1 | 1420.4 |
| 27.5°  | 788.9 | 843.9 | 912.1 | 971.8  | 1051.6 | 1086.4 | 1129.1 | 1209.7 | 1287.9 | 1358.4 | 1427.4 |
| 30°    | 763.3 | 822.2 | 878.8 | 949.3  | 1026.8 | 1071.7 | 1111.2 | 1198.8 | 1278.6 | 1352.3 | 1416.6 |
| 32.5°  | 734.6 | 790.4 | 850.9 | 917.5  | 998.9  | 1044.6 | 1094.2 | 1184.1 | 1269.3 | 1332.9 | 1382.5 |
| 35°    | 704.4 | 761.0 | 813.7 | 881.9  | 965.6  | 1011.3 | 1059.3 | 1158.5 | 1243.0 | 1294.9 | 1323.6 |
| 37.5°  | 671.1 | 724.6 | 776.5 | 843.9  | 927.6  | 976.4  | 1025.2 | 1121.3 | 1201.1 | 1244.5 | 1236.8 |
| 40°    | 639.3 | 687.4 | 735.4 | 799.0  | 886.5  | 938.4  | 981.1  | 1077.9 | 1147.7 | 1166.3 | 1140.7 |
| 42.5°  | 602.9 | 644.0 | 690.5 | 755.6  | 840.8  | 889.6  | 943.1  | 1031.4 | 1083.4 | 1075.6 | 1032.2 |
| 45°    | 561.8 | 598.2 | 644.7 | 706.0  | 792.8  | 843.1  | 888.1  | 971.8  | 1009.7 | 990.4  | 911.3  |
| 47.5°  | 522.3 | 557.9 | 595.9 | 657.1  | 741.6  | 784.2  | 829.9  | 905.1  | 926.8  | 885.7  | 806.7  |
| 50°    | 479.7 | 509.1 | 548.6 | 606.8  | 685.8  | 730.8  | 768.7  | 829.2  | 836.9  | 786.6  | 704.4  |
| 52.5°  | 438.6 | 463.4 | 501.4 | 558.7  | 632.3  | 668.0  | 705.2  | 758.7  | 752.5  | 700.5  | 621.5  |
| 55°    | 395.2 | 418.5 | 453.3 | 506.0  | 571.1  | 605.2  | 637.0  | 684.3  | 671.1  | 617.6  | 548.6  |
| 57.5°  | 358.8 | 375.1 | 409.2 | 458.0  | 511.5  | 548.6  | 575.8  | 613.0  | 592.8  | 539.4  | 475.0  |
| 60°    | 316.9 | 337.1 | 365.8 | 405.3  | 458.0  | 482.8  | 506.8  | 531.6  | 517.7  | 466.5  | 409.2  |
| 62.5°  | 279.0 | 294.5 | 319.3 | 357.2  | 398.3  | 420.8  | 446.4  | 461.9  | 447.9  | 400.6  | 352.6  |
| 65°    | 246.4 | 258.8 | 278.2 | 309.2  | 348.7  | 367.3  | 382.0  | 396.8  | 385.1  | 341.0  | 306.1  |
| 67.5°  | 210.8 | 221.6 | 237.9 | 262.7  | 296.0  | 309.2  | 323.1  | 333.2  | 320.0  | 290.6  | 256.5  |
| 70°    | 179.0 | 186.8 | 202.3 | 220.9  | 244.1  | 256.5  | 268.1  | 278.2  | 266.6  | 241.8  | 216.2  |
| 72.5°  | 146.5 | 152.7 | 166.6 | 179.8  | 200.7  | 209.2  | 217.8  | 225.5  | 221.6  | 198.4  | 177.5  |
| 75°    | 120.9 | 123.2 | 132.5 | 143.4  | 156.5  | 165.8  | 172.0  | 176.7  | 173.6  | 155.0  | 141.8  |
| 77.5°  | 91.4  | 94.5  | 101.5 | 110.0  | 121.7  | 127.1  | 131.0  | 135.6  | 131.7  | 117.0  | 107.7  |
| 80°    | 66.6  | 67.4  | 71.3  | 79.0   | 86.8   | 87.6   | 91.4   | 97.6   | 95.3   | 85.2   | 78.3   |
| 82.5°  | 42.6  | 44.9  | 46.5  | 51.1   | 56.6   | 58.1   | 60.4   | 62.0   | 61.2   | 55.0   | 52.7   |
| 85°    | 24.8  | 24.8  | 26.3  | 29.4   | 31.0   | 33.3   | 34.1   | 34.9   | 36.4   | 32.5   | 30.2   |
| 87.5°  | 10.8  | 11.6  | 11.6  | 12.4   | 13.9   | 13.9   | 14.7   | 15.5   | 16.3   | 15.5   | 13.2   |
| 90°    | 1.7   | 3.1   | 4.5   | 5.9    | 7.3    | 8.0    | 8.5    | 9.5    | 10.6   | 11.6   | 12.6   |
| 92.5°  | 8.6   | 8.3   | 8.1   | 7.8    | 7.5    | 7.4    | 7.9    | 8.9    | 10.0   | 11.0   | 12.0   |
| 95°    | 31.4  | 27.1  | 22.8  | 18.5   | 14.2   | 12.0   | 12.1   | 12.2   | 12.3   | 12.5   | 12.6   |
| 97.5°  | 60.0  | 62.8  | 65.6  | 68.4   | 71.2   | 72.6   | 65.9   | 52.6   | 39.3   | 25.9   | 12.6   |
| 100°   | 93.7  | 96.0  | 98.3  | 100.6  | 102.9  | 104.0  | 95.2   | 77.7   | 60.2   | 42.6   | 25.1   |
| 102.5° | 131.4 | 132.9 | 134.5 | 136.0  | 137.5  | 138.3  | 139.1  | 140.6  | 142.1  | 143.7  | 145.2  |
| 105°   | 172.0 | 172.8 | 173.6 | 174.3  | 175.1  | 175.5  | 175.8  | 176.4  | 177.1  | 177.7  | 178.3  |
| 107.5° | 209.2 | 209.6 | 210.0 | 210.3  | 210.7  | 210.9  | 211.3  | 212.2  | 213.1  | 214.0  | 214.9  |
| 110°   | 246.9 | 247.3 | 247.7 | 248.0  | 248.4  | 248.6  | 249.0  | 249.7  | 250.5  | 251.2  | 252.0  |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 283.5 | 284.3 | 285.0 | 285.8 | 286.5 | 286.9 | 287.0 | 287.3 | 287.5 | 287.8 | 288.0 |
| 115°   | 321.2 | 321.6 | 322.0 | 322.3 | 322.7 | 322.9 | 322.8 | 322.7 | 322.6 | 322.4 | 322.3 |
| 117.5° | 354.9 | 355.4 | 355.9 | 356.4 | 356.9 | 357.2 | 357.4 | 357.8 | 358.1 | 358.5 | 358.9 |
| 120°   | 389.2 | 389.7 | 390.2 | 390.7 | 391.2 | 391.5 | 391.4 | 391.3 | 391.2 | 391.0 | 390.9 |
| 122.5° | 421.2 | 421.4 | 421.7 | 421.9 | 422.2 | 422.3 | 422.4 | 422.7 | 423.0 | 423.2 | 423.5 |
| 125°   | 451.5 | 452.0 | 452.5 | 453.0 | 453.5 | 453.8 | 453.7 | 453.4 | 453.1 | 452.9 | 452.6 |
| 127.5° | 480.6 | 480.7 | 480.9 | 481.0 | 481.1 | 481.2 | 481.5 | 482.2 | 482.8 | 483.5 | 484.1 |
| 130°   | 508.6 | 508.7 | 508.9 | 509.0 | 509.1 | 509.2 | 509.4 | 509.8 | 510.1 | 510.5 | 510.9 |
| 132.5° | 534.4 | 534.6 | 534.9 | 535.1 | 535.4 | 535.5 | 535.8 | 536.3 | 536.8 | 537.3 | 537.8 |
| 135°   | 560.1 | 560.0 | 559.8 | 559.7 | 559.6 | 559.5 | 559.8 | 560.3 | 560.8 | 561.3 | 561.8 |
| 137.5° | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 583.2 | 583.9 | 584.5 | 585.2 | 585.8 |
| 140°   | 605.2 | 605.5 | 605.7 | 606.0 | 606.3 | 606.4 | 606.5 | 606.8 | 607.0 | 607.3 | 607.5 |
| 142.5° | 625.2 | 625.7 | 626.2 | 626.7 | 627.2 | 627.5 | 627.6 | 627.7 | 627.8 | 628.0 | 628.1 |
| 145°   | 645.8 | 646.2 | 646.6 | 646.9 | 647.3 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 |
| 147.5° | 661.8 | 662.6 | 663.3 | 664.1 | 664.8 | 665.2 | 665.1 | 665.0 | 664.9 | 664.8 | 664.7 |
| 150°   | 679.5 | 680.0 | 680.5 | 681.0 | 681.5 | 681.8 | 681.7 | 681.6 | 681.5 | 681.3 | 681.2 |
| 152.5° | 694.4 | 694.8 | 695.2 | 695.5 | 695.9 | 696.1 | 696.0 | 695.7 | 695.5 | 695.2 | 695.0 |
| 155°   | 708.1 | 708.2 | 708.4 | 708.5 | 708.6 | 708.7 | 708.5 | 708.1 | 707.8 | 707.4 | 707.0 |
| 157.5° | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 | 719.8 | 719.3 | 718.8 | 718.3 | 717.8 |
| 160°   | 730.4 | 730.0 | 729.6 | 729.3 | 728.9 | 728.7 | 728.6 | 728.5 | 728.4 | 728.2 | 728.1 |
| 162.5° | 739.5 | 739.0 | 738.5 | 738.0 | 737.5 | 737.2 | 737.1 | 737.0 | 736.9 | 736.8 | 736.7 |
| 165°   | 747.0 | 746.4 | 745.7 | 745.1 | 744.4 | 744.1 | 744.1 | 744.1 | 744.1 | 744.1 | 744.1 |
| 167.5° | 753.3 | 752.7 | 752.0 | 751.4 | 750.7 | 750.4 | 750.3 | 750.2 | 750.1 | 749.9 | 749.8 |
| 170°   | 758.4 | 757.6 | 756.9 | 756.1 | 755.4 | 755.0 | 755.1 | 755.2 | 755.3 | 755.4 | 755.5 |
| 172.5° | 761.8 | 761.0 | 760.3 | 759.5 | 758.8 | 758.4 | 758.5 | 758.6 | 758.7 | 758.9 | 759.0 |
| 175°   | 764.1 | 763.3 | 762.6 | 761.8 | 761.1 | 760.7 | 760.8 | 760.9 | 761.0 | 761.2 | 761.3 |
| 177.5° | 765.8 | 764.9 | 764.0 | 763.1 | 762.2 | 761.8 | 761.9 | 762.2 | 762.5 | 762.7 | 763.0 |
| 180°   | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  |
| 2.5°   | 977.2  | 991.1  | 997.3  | 998.9  | 1007.4 | 1002.0 | 1004.3 | 1003.5 | 1009.7 | 1010.5 | 1010.5 |
| 5°     | 1048.5 | 1064.8 | 1070.2 | 1077.9 | 1089.5 | 1092.6 | 1090.3 | 1095.0 | 1103.5 | 1097.3 | 1106.6 |
| 7.5°   | 1123.6 | 1141.5 | 1153.9 | 1170.9 | 1174.8 | 1184.9 | 1191.1 | 1196.5 | 1198.0 | 1198.8 | 1200.4 |
| 10°    | 1193.4 | 1215.9 | 1232.9 | 1261.6 | 1267.8 | 1273.2 | 1300.3 | 1289.5 | 1303.4 | 1298.8 | 1300.3 |
| 12.5°  | 1250.0 | 1294.1 | 1308.1 | 1356.1 | 1360.8 | 1379.4 | 1377.8 | 1394.9 | 1398.0 | 1404.2 | 1398.0 |
| 15°    | 1324.4 | 1375.5 | 1398.0 | 1425.1 | 1440.6 | 1462.3 | 1466.2 | 1489.4 | 1498.7 | 1507.2 | 1498.7 |
| 17.5°  | 1392.5 | 1419.7 | 1477.0 | 1498.7 | 1508.8 | 1520.4 | 1549.9 | 1558.4 | 1572.3 | 1566.9 | 1582.4 |
| 20°    | 1426.6 | 1465.4 | 1525.8 | 1563.0 | 1578.5 | 1589.4 | 1614.2 | 1627.4 | 1632.8 | 1632.8 | 1634.3 |
| 22.5°  | 1456.9 | 1512.7 | 1557.6 | 1600.2 | 1614.2 | 1621.9 | 1636.6 | 1646.7 | 1649.0 | 1650.6 | 1652.1 |
| 25°    | 1484.0 | 1534.4 | 1570.8 | 1594.8 | 1600.2 | 1600.2 | 1608.8 | 1602.6 | 1592.5 | 1600.2 | 1604.9 |
| 27.5°  | 1484.0 | 1519.6 | 1535.9 | 1544.4 | 1544.4 | 1523.5 | 1511.1 | 1485.5 | 1463.8 | 1457.6 | 1471.6 |
| 30°    | 1459.2 | 1475.5 | 1453.0 | 1432.1 | 1415.8 | 1401.8 | 1353.0 | 1314.3 | 1306.5 | 1301.1 | 1322.0 |
| 32.5°  | 1401.8 | 1380.9 | 1336.8 | 1276.3 | 1252.3 | 1220.5 | 1182.5 | 1153.1 | 1135.3 | 1129.1 | 1124.4 |
| 35°    | 1300.3 | 1246.1 | 1188.7 | 1107.4 | 1090.3 | 1050.0 | 998.1  | 976.4  | 947.0  | 946.2  | 956.3  |
| 37.5°  | 1189.5 | 1105.8 | 1043.8 | 966.3  | 942.3  | 899.7  | 850.9  | 828.4  | 808.3  | 792.8  | 811.4  |
| 40°    | 1060.1 | 987.3  | 892.7  | 829.2  | 795.1  | 772.6  | 731.5  | 706.7  | 697.4  | 689.7  | 701.3  |
| 42.5°  | 939.2  | 859.4  | 785.8  | 720.7  | 692.8  | 667.2  | 640.1  | 616.1  | 609.1  | 608.3  | 616.8  |
| 45°    | 819.1  | 740.8  | 672.6  | 616.8  | 599.0  | 583.5  | 557.2  | 550.2  | 538.6  | 530.8  | 534.7  |
| 47.5°  | 723.0  | 642.4  | 585.8  | 543.2  | 527.7  | 514.6  | 497.5  | 485.9  | 475.8  | 472.7  | 477.4  |
| 50°    | 628.5  | 574.2  | 516.1  | 480.5  | 468.8  | 456.4  | 443.3  | 432.4  | 427.8  | 424.7  | 427.8  |
| 52.5°  | 552.5  | 494.4  | 454.9  | 426.2  | 414.6  | 405.3  | 396.0  | 391.3  | 385.1  | 386.7  | 389.8  |
| 55°    | 484.3  | 433.2  | 399.9  | 378.9  | 372.0  | 368.1  | 356.5  | 351.0  | 348.7  | 347.2  | 348.7  |
| 57.5°  | 420.0  | 382.8  | 358.0  | 340.2  | 330.9  | 328.6  | 319.3  | 319.3  | 316.9  | 314.6  | 315.4  |
| 60°    | 368.9  | 337.1  | 313.1  | 299.1  | 297.6  | 293.7  | 287.5  | 286.7  | 281.3  | 283.6  | 284.4  |
| 62.5°  | 316.9  | 291.4  | 275.1  | 266.6  | 261.2  | 259.6  | 255.7  | 255.0  | 252.6  | 253.4  | 251.9  |
| 65°    | 275.9  | 255.0  | 238.7  | 231.7  | 229.4  | 228.6  | 225.5  | 223.2  | 221.6  | 223.2  | 221.6  |
| 67.5°  | 234.8  | 220.9  | 208.5  | 201.5  | 198.4  | 197.6  | 195.3  | 193.7  | 194.5  | 192.2  | 193.7  |
| 70°    | 196.1  | 182.1  | 174.4  | 170.5  | 168.9  | 166.6  | 166.6  | 166.6  | 166.6  | 165.1  | 164.3  |
| 72.5°  | 165.1  | 151.1  | 145.7  | 143.4  | 141.8  | 141.0  | 138.7  | 139.5  | 138.7  | 137.9  | 141.0  |
| 75°    | 131.0  | 122.4  | 117.0  | 114.7  | 116.2  | 113.9  | 111.6  | 113.1  | 110.8  | 111.6  | 114.7  |
| 77.5°  | 99.2   | 95.3   | 92.2   | 90.7   | 89.1   | 87.6   | 87.6   | 86.0   | 86.0   | 86.0   | 86.0   |
| 80°    | 72.1   | 71.3   | 65.9   | 65.1   | 65.1   | 63.5   | 63.5   | 63.5   | 63.5   | 62.8   | 63.5   |
| 82.5°  | 48.0   | 47.3   | 45.7   | 44.9   | 43.4   | 44.2   | 44.2   | 42.6   | 42.6   | 41.8   | 42.6   |
| 85°    | 27.9   | 27.9   | 26.3   | 25.6   | 24.8   | 25.6   | 24.0   | 23.2   | 24.0   | 23.2   | 24.0   |
| 87.5°  | 13.2   | 11.6   | 12.4   | 11.6   | 10.1   | 10.8   | 9.3    | 10.1   | 9.3    | 8.5    | 10.1   |
| 90°    | 13.4   | 14.1   | 14.9   | 15.6   | 16.0   | 16.1   | 16.4   | 16.6   | 16.9   | 17.1   | 16.9   |
| 92.5°  | 12.8   | 13.5   | 14.3   | 15.0   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   |
| 95°    | 13.4   | 14.1   | 14.9   | 15.6   | 16.0   | 16.1   | 16.2   | 16.3   | 16.5   | 16.6   | 16.5   |
| 97.5°  | 13.2   | 13.8   | 14.5   | 15.1   | 15.4   | 15.5   | 15.6   | 15.7   | 15.9   | 16.0   | 15.9   |
| 100°   | 22.9   | 20.8   | 18.6   | 16.5   | 15.4   | 15.5   | 15.6   | 15.7   | 15.9   | 16.0   | 15.9   |
| 102.5° | 116.6  | 88.0   | 59.5   | 30.9   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 105°   | 179.5  | 180.6  | 181.8  | 182.9  | 183.5  | 181.2  | 176.6  | 172.1  | 167.5  | 162.9  | 167.5  |
| 107.5° | 215.5  | 216.1  | 216.8  | 217.4  | 217.7  | 218.0  | 218.5  | 219.0  | 219.5  | 220.0  | 219.5  |
| 110°   | 252.3  | 252.5  | 252.8  | 253.1  | 253.2  | 253.4  | 253.8  | 254.1  | 254.5  | 254.9  | 254.5  |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 287.9 | 287.8 | 287.7 | 287.6 | 287.5 | 287.8 | 288.3 | 288.8 | 289.3 | 289.8 | 289.3 |
| 115°   | 322.6 | 322.8 | 323.1 | 323.4 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 |
| 117.5° | 358.8 | 358.6 | 358.5 | 358.4 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 |
| 120°   | 391.2 | 391.4 | 391.7 | 392.0 | 392.1 | 392.0 | 391.7 | 391.4 | 391.2 | 390.9 | 391.2 |
| 122.5° | 423.6 | 423.8 | 423.9 | 424.0 | 424.1 | 424.0 | 423.7 | 423.4 | 423.2 | 422.9 | 423.2 |
| 125°   | 453.0 | 453.4 | 453.8 | 454.2 | 454.4 | 454.5 | 454.6 | 454.7 | 454.8 | 454.9 | 454.8 |
| 127.5° | 484.0 | 483.8 | 483.7 | 483.6 | 483.5 | 483.4 | 483.3 | 483.2 | 483.0 | 482.9 | 483.0 |
| 130°   | 511.0 | 511.2 | 511.3 | 511.4 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 |
| 132.5° | 537.9 | 538.1 | 538.2 | 538.3 | 538.4 | 538.3 | 538.2 | 538.1 | 537.9 | 537.8 | 537.9 |
| 135°   | 562.0 | 562.3 | 562.5 | 562.8 | 562.9 | 563.0 | 563.3 | 563.6 | 563.8 | 564.1 | 563.8 |
| 137.5° | 586.0 | 586.3 | 586.5 | 586.8 | 586.9 | 586.8 | 586.7 | 586.6 | 586.5 | 586.4 | 586.5 |
| 140°   | 607.9 | 608.3 | 608.6 | 609.0 | 609.2 | 609.3 | 609.4 | 609.5 | 609.7 | 609.8 | 609.7 |
| 142.5° | 628.3 | 628.6 | 628.8 | 629.1 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 |
| 145°   | 647.6 | 647.8 | 647.9 | 648.0 | 648.1 | 648.2 | 648.5 | 648.7 | 649.0 | 649.2 | 649.0 |
| 147.5° | 664.8 | 664.9 | 665.0 | 665.1 | 665.2 | 665.3 | 665.4 | 665.5 | 665.7 | 665.8 | 665.7 |
| 150°   | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.3 | 681.4 | 681.5 | 681.7 | 681.8 | 681.7 |
| 152.5° | 695.2 | 695.5 | 695.7 | 696.0 | 696.1 | 696.0 | 695.9 | 695.8 | 695.6 | 695.5 | 695.6 |
| 155°   | 707.5 | 708.0 | 708.5 | 709.0 | 709.2 | 709.0 | 708.6 | 708.3 | 707.9 | 707.5 | 707.9 |
| 157.5° | 718.4 | 719.1 | 719.7 | 720.4 | 720.7 | 720.4 | 719.7 | 719.1 | 718.4 | 717.8 | 718.4 |
| 160°   | 728.9 | 729.6 | 730.4 | 731.1 | 731.5 | 731.1 | 730.4 | 729.6 | 728.9 | 728.1 | 728.9 |
| 162.5° | 737.5 | 738.2 | 739.0 | 739.7 | 740.1 | 739.7 | 738.8 | 737.9 | 737.0 | 736.1 | 737.0 |
| 165°   | 745.1 | 746.1 | 747.2 | 748.2 | 748.7 | 748.1 | 747.0 | 745.8 | 744.7 | 743.5 | 744.7 |
| 167.5° | 751.0 | 752.1 | 753.3 | 754.4 | 755.0 | 754.4 | 753.1 | 751.8 | 750.5 | 749.2 | 750.5 |
| 170°   | 756.5 | 757.5 | 758.6 | 759.6 | 760.1 | 759.5 | 758.2 | 756.9 | 755.7 | 754.4 | 755.7 |
| 172.5° | 760.0 | 761.0 | 762.0 | 763.0 | 763.5 | 762.8 | 761.4 | 760.1 | 758.7 | 757.3 | 758.7 |
| 175°   | 762.4 | 763.6 | 764.7 | 765.8 | 766.4 | 765.6 | 764.1 | 762.6 | 761.0 | 759.5 | 761.0 |
| 177.5° | 764.0 | 765.0 | 766.0 | 767.0 | 767.5 | 766.7 | 765.2 | 763.7 | 762.2 | 760.7 | 762.2 |
| 180°   | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  |
| 2.5°   | 1009.0 | 1006.6 | 1003.5 | 1003.5 | 999.7  | 999.7  | 993.5  | 982.6  | 973.3  | 970.2  | 971.8  |
| 5°     | 1095.0 | 1095.7 | 1091.1 | 1087.2 | 1080.3 | 1074.8 | 1064.8 | 1045.4 | 1039.2 | 1026.8 | 1018.3 |
| 7.5°   | 1193.4 | 1190.3 | 1181.8 | 1175.6 | 1174.0 | 1161.6 | 1139.9 | 1116.7 | 1098.1 | 1085.7 | 1067.9 |
| 10°    | 1304.2 | 1291.8 | 1279.4 | 1275.5 | 1266.2 | 1245.3 | 1220.5 | 1194.9 | 1169.4 | 1142.2 | 1112.0 |
| 12.5°  | 1397.2 | 1373.2 | 1372.4 | 1363.1 | 1345.3 | 1333.7 | 1304.2 | 1267.8 | 1223.6 | 1193.4 | 1159.3 |
| 15°    | 1497.2 | 1474.7 | 1456.1 | 1439.0 | 1430.5 | 1396.4 | 1371.6 | 1325.9 | 1273.2 | 1240.7 | 1217.4 |
| 17.5°  | 1568.5 | 1558.4 | 1526.6 | 1518.9 | 1507.2 | 1467.7 | 1428.2 | 1383.2 | 1337.5 | 1291.8 | 1229.0 |
| 20°    | 1625.8 | 1619.6 | 1598.7 | 1587.8 | 1569.2 | 1538.2 | 1490.2 | 1438.3 | 1385.6 | 1320.5 | 1261.6 |
| 22.5°  | 1650.6 | 1642.8 | 1625.8 | 1616.5 | 1604.9 | 1578.5 | 1537.5 | 1478.6 | 1409.6 | 1351.5 | 1288.7 |
| 25°    | 1601.8 | 1615.7 | 1611.1 | 1607.2 | 1602.6 | 1587.1 | 1556.1 | 1504.1 | 1436.7 | 1370.8 | 1292.6 |
| 27.5°  | 1491.7 | 1515.8 | 1539.0 | 1542.1 | 1549.9 | 1556.1 | 1543.7 | 1506.5 | 1449.9 | 1380.1 | 1294.1 |
| 30°    | 1343.7 | 1354.6 | 1401.8 | 1415.8 | 1426.6 | 1466.2 | 1489.4 | 1480.1 | 1436.7 | 1373.9 | 1294.9 |
| 32.5°  | 1153.9 | 1182.5 | 1230.6 | 1263.9 | 1293.4 | 1337.5 | 1398.0 | 1422.0 | 1406.5 | 1355.4 | 1277.1 |
| 35°    | 974.1  | 1008.2 | 1064.0 | 1106.6 | 1136.0 | 1198.8 | 1270.1 | 1322.0 | 1341.4 | 1315.8 | 1246.1 |
| 37.5°  | 826.8  | 867.9  | 917.5  | 933.8  | 967.9  | 1045.4 | 1143.8 | 1215.9 | 1263.1 | 1265.5 | 1211.2 |
| 40°    | 716.0  | 737.0  | 776.5  | 801.3  | 834.6  | 899.7  | 995.8  | 1091.1 | 1162.4 | 1186.4 | 1157.7 |
| 42.5°  | 622.3  | 638.5  | 668.0  | 698.2  | 728.4  | 778.0  | 866.4  | 955.5  | 1051.6 | 1099.6 | 1098.8 |
| 45°    | 547.9  | 564.9  | 585.1  | 609.9  | 630.8  | 684.3  | 754.0  | 845.4  | 928.4  | 1002.8 | 1021.4 |
| 47.5°  | 482.8  | 497.5  | 522.3  | 533.2  | 547.1  | 597.5  | 657.9  | 743.2  | 829.2  | 914.4  | 936.1  |
| 50°    | 434.7  | 447.1  | 464.2  | 471.2  | 486.7  | 523.9  | 573.4  | 642.4  | 737.7  | 816.0  | 856.3  |
| 52.5°  | 391.3  | 400.6  | 413.8  | 419.2  | 430.1  | 458.0  | 502.9  | 557.2  | 636.2  | 716.8  | 773.4  |
| 55°    | 354.1  | 360.3  | 369.6  | 375.8  | 383.6  | 408.4  | 441.7  | 490.5  | 558.7  | 628.5  | 683.5  |
| 57.5°  | 319.3  | 323.9  | 333.2  | 336.3  | 342.5  | 361.9  | 385.1  | 426.2  | 489.0  | 551.0  | 604.4  |
| 60°    | 286.7  | 289.8  | 295.2  | 302.2  | 306.9  | 320.0  | 341.7  | 375.8  | 426.2  | 482.8  | 526.2  |
| 62.5°  | 255.7  | 260.4  | 261.9  | 265.0  | 268.9  | 281.3  | 298.3  | 323.1  | 367.3  | 413.8  | 459.5  |
| 65°    | 224.0  | 227.8  | 230.9  | 231.7  | 235.6  | 244.9  | 260.4  | 282.1  | 310.7  | 351.0  | 393.7  |
| 67.5°  | 194.5  | 196.8  | 198.4  | 201.5  | 205.4  | 210.0  | 222.4  | 238.7  | 265.0  | 297.6  | 331.7  |
| 70°    | 167.4  | 167.4  | 169.7  | 170.5  | 175.1  | 180.6  | 186.0  | 201.5  | 224.7  | 251.1  | 274.3  |
| 72.5°  | 137.9  | 141.8  | 141.0  | 144.9  | 144.1  | 148.0  | 155.0  | 165.1  | 182.1  | 203.0  | 225.5  |
| 75°    | 112.4  | 114.7  | 114.7  | 114.7  | 116.2  | 119.3  | 123.2  | 132.5  | 145.7  | 162.7  | 175.9  |
| 77.5°  | 87.6   | 89.1   | 89.1   | 89.1   | 89.9   | 93.0   | 96.9   | 103.1  | 112.4  | 122.4  | 130.2  |
| 80°    | 62.8   | 64.3   | 64.3   | 65.9   | 65.9   | 66.6   | 70.5   | 73.6   | 78.3   | 86.0   | 93.8   |
| 82.5°  | 42.6   | 43.4   | 44.9   | 44.9   | 44.2   | 45.7   | 46.5   | 49.6   | 54.2   | 55.8   | 61.2   |
| 85°    | 23.2   | 24.0   | 24.8   | 24.8   | 25.6   | 27.1   | 26.3   | 29.4   | 29.4   | 32.5   | 34.1   |
| 87.5°  | 9.3    | 10.8   | 10.8   | 10.1   | 10.8   | 10.8   | 10.8   | 12.4   | 13.2   | 13.9   | 13.2   |
| 90°    | 16.6   | 16.4   | 16.1   | 16.0   | 15.6   | 14.9   | 14.1   | 13.4   | 12.6   | 11.6   | 10.6   |
| 92.5°  | 15.4   | 15.4   | 15.4   | 15.4   | 15.0   | 14.3   | 13.5   | 12.8   | 12.0   | 11.0   | 10.0   |
| 95°    | 16.3   | 16.2   | 16.1   | 16.0   | 15.6   | 14.9   | 14.1   | 13.4   | 12.6   | 12.5   | 12.3   |
| 97.5°  | 15.7   | 15.6   | 15.5   | 15.4   | 15.1   | 14.5   | 13.8   | 13.2   | 12.6   | 25.9   | 39.3   |
| 100°   | 15.7   | 15.6   | 15.5   | 15.4   | 16.5   | 18.6   | 20.8   | 22.9   | 25.1   | 42.6   | 60.2   |
| 102.5° | 16.6   | 16.6   | 16.6   | 16.6   | 30.9   | 59.5   | 88.0   | 116.6  | 145.2  | 143.7  | 142.1  |
| 105°   | 172.1  | 176.6  | 181.2  | 183.5  | 182.9  | 181.8  | 180.6  | 179.5  | 178.3  | 177.7  | 177.1  |
| 107.5° | 219.0  | 218.5  | 218.0  | 217.7  | 217.4  | 216.8  | 216.1  | 215.5  | 214.9  | 214.0  | 213.1  |
| 110°   | 254.1  | 253.8  | 253.4  | 253.2  | 253.1  | 252.8  | 252.5  | 252.3  | 252.0  | 251.2  | 250.5  |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 288.8 | 288.3 | 287.8 | 287.5  | 287.6 | 287.7 | 287.8 | 287.9 | 288.0 | 287.8 | 287.5 |
| 115°   | 323.5 | 323.5 | 323.5 | 323.5  | 323.4 | 323.1 | 322.8 | 322.6 | 322.3 | 322.4 | 322.6 |
| 117.5° | 358.3 | 358.3 | 358.3 | 358.3  | 358.4 | 358.5 | 358.6 | 358.8 | 358.9 | 358.5 | 358.1 |
| 120°   | 391.4 | 391.7 | 392.0 | 392.1  | 392.0 | 391.7 | 391.4 | 391.2 | 390.9 | 391.0 | 391.2 |
| 122.5° | 423.4 | 423.7 | 424.0 | 424.1  | 424.0 | 423.9 | 423.8 | 423.6 | 423.5 | 423.2 | 423.0 |
| 125°   | 454.7 | 454.6 | 454.5 | 454.4  | 454.2 | 453.8 | 453.4 | 453.0 | 452.6 | 452.9 | 453.1 |
| 127.5° | 483.2 | 483.3 | 483.4 | 483.5  | 483.6 | 483.7 | 483.8 | 484.0 | 484.1 | 483.5 | 482.8 |
| 130°   | 511.5 | 511.5 | 511.5 | 511.5  | 511.4 | 511.3 | 511.2 | 511.0 | 510.9 | 510.5 | 510.1 |
| 132.5° | 538.1 | 538.2 | 538.3 | 538.4  | 538.3 | 538.2 | 538.1 | 537.9 | 537.8 | 537.3 | 536.8 |
| 135°   | 563.6 | 563.3 | 563.0 | 562.9  | 562.8 | 562.5 | 562.3 | 562.0 | 561.8 | 561.3 | 560.8 |
| 137.5° | 586.6 | 586.7 | 586.8 | 586.9  | 586.8 | 586.5 | 586.3 | 586.0 | 585.8 | 585.2 | 584.5 |
| 140°   | 609.5 | 609.4 | 609.3 | 609.2  | 609.0 | 608.6 | 608.3 | 607.9 | 607.5 | 607.3 | 607.0 |
| 142.5° | 629.2 | 629.2 | 629.2 | 629.2  | 629.1 | 628.8 | 628.6 | 628.3 | 628.1 | 628.0 | 627.8 |
| 145°   | 648.7 | 648.5 | 648.2 | 648.1  | 648.0 | 647.9 | 647.8 | 647.6 | 647.5 | 647.5 | 647.5 |
| 147.5° | 665.5 | 665.4 | 665.3 | 665.2  | 665.1 | 665.0 | 664.9 | 664.8 | 664.7 | 664.8 | 664.9 |
| 150°   | 681.5 | 681.4 | 681.3 | 681.2  | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.3 | 681.5 |
| 152.5° | 695.8 | 695.9 | 696.0 | 696.1  | 696.0 | 695.7 | 695.5 | 695.2 | 695.0 | 695.2 | 695.5 |
| 155°   | 708.3 | 708.6 | 709.0 | 709.2  | 709.0 | 708.5 | 708.0 | 707.5 | 707.0 | 707.4 | 707.8 |
| 157.5° | 719.1 | 719.7 | 720.4 | 720.7  | 720.4 | 719.7 | 719.1 | 718.4 | 717.8 | 718.3 | 718.8 |
| 160°   | 729.6 | 730.4 | 731.1 | 731.5  | 731.1 | 730.4 | 729.6 | 728.9 | 728.1 | 728.2 | 728.4 |
| 162.5° | 737.9 | 738.8 | 739.7 | 740.1  | 739.7 | 739.0 | 738.2 | 737.5 | 736.7 | 736.8 | 736.9 |
| 165°   | 745.8 | 747.0 | 748.1 | 748.7  | 748.2 | 747.2 | 746.1 | 745.1 | 744.1 | 744.1 | 744.1 |
| 167.5° | 751.8 | 753.1 | 754.4 | 755.0  | 754.4 | 753.3 | 752.1 | 751.0 | 749.8 | 749.9 | 750.1 |
| 170°   | 756.9 | 758.2 | 759.5 | 760.1  | 759.6 | 758.6 | 757.5 | 756.5 | 755.5 | 755.4 | 755.3 |
| 172.5° | 760.1 | 761.4 | 762.8 | 763.5  | 763.0 | 762.0 | 761.0 | 760.0 | 759.0 | 758.9 | 758.7 |
| 175°   | 762.6 | 764.1 | 765.6 | 766.4  | 765.8 | 764.7 | 763.6 | 762.4 | 761.3 | 761.2 | 761.0 |
| 177.5° | 763.7 | 765.2 | 766.7 | 767.5  | 767.0 | 766.0 | 765.0 | 764.0 | 763.0 | 762.7 | 762.5 |
| 180°   | 764.1 | 764.1 | 764.1 | 764.1  | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°     | 935.3  | 935.3  | 935.3  | 935.3  | 935.3  | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 |
| 2.5°   | 964.8  | 961.7  | 959.4  | 959.4  | 952.4  | 945.4 | 941.5 | 940.0 | 938.4 | 932.2 | 923.7 |
| 5°     | 1004.3 | 994.2  | 987.3  | 980.3  | 968.7  | 956.3 | 943.9 | 936.9 | 926.8 | 912.9 | 902.8 |
| 7.5°   | 1048.5 | 1024.5 | 1016.7 | 1008.2 | 984.9  | 964.0 | 947.0 | 932.2 | 916.0 | 898.1 | 880.3 |
| 10°    | 1085.7 | 1060.1 | 1043.1 | 1028.3 | 998.1  | 970.2 | 944.6 | 922.9 | 902.0 | 878.8 | 857.1 |
| 12.5°  | 1121.3 | 1084.9 | 1067.1 | 1045.4 | 1013.6 | 973.3 | 940.0 | 912.9 | 881.9 | 857.8 | 831.5 |
| 15°    | 1170.9 | 1109.7 | 1080.3 | 1066.3 | 1023.7 | 976.4 | 936.1 | 895.8 | 870.2 | 833.8 | 810.6 |
| 17.5°  | 1178.7 | 1129.1 | 1109.7 | 1074.1 | 1022.9 | 969.4 | 922.9 | 882.6 | 843.9 | 811.4 | 781.1 |
| 20°    | 1205.8 | 1140.7 | 1109.7 | 1087.2 | 1019.8 | 965.6 | 914.4 | 862.5 | 825.3 | 790.4 | 756.3 |
| 22.5°  | 1222.8 | 1149.2 | 1116.7 | 1081.0 | 1016.7 | 951.6 | 891.2 | 846.2 | 800.5 | 764.9 | 737.7 |
| 25°    | 1218.2 | 1144.6 | 1108.1 | 1074.8 | 996.6  | 931.5 | 877.2 | 819.9 | 777.3 | 738.5 | 702.9 |
| 27.5°  | 1215.9 | 1132.9 | 1094.2 | 1057.0 | 983.4  | 915.2 | 847.0 | 800.5 | 753.2 | 708.3 | 681.9 |
| 30°    | 1209.7 | 1118.2 | 1073.3 | 1033.0 | 956.3  | 885.0 | 826.8 | 772.6 | 725.3 | 684.3 | 649.4 |
| 32.5°  | 1188.7 | 1093.4 | 1050.0 | 1006.6 | 926.8  | 855.5 | 796.6 | 746.3 | 699.0 | 656.4 | 623.0 |
| 35°    | 1160.8 | 1064.0 | 1016.7 | 971.0  | 891.2  | 819.1 | 764.9 | 712.2 | 668.0 | 626.9 | 595.1 |
| 37.5°  | 1132.9 | 1029.9 | 985.7  | 933.0  | 859.4  | 784.2 | 728.4 | 681.2 | 640.1 | 597.5 | 562.6 |
| 40°    | 1092.6 | 989.6  | 940.8  | 895.8  | 809.8  | 739.3 | 688.1 | 645.5 | 605.2 | 564.9 | 535.5 |
| 42.5°  | 1037.6 | 945.4  | 895.0  | 845.4  | 764.9  | 695.1 | 645.5 | 607.5 | 569.6 | 536.3 | 503.7 |
| 45°    | 981.8  | 891.9  | 847.0  | 802.8  | 715.3  | 649.4 | 603.7 | 568.8 | 537.0 | 500.6 | 474.3 |
| 47.5°  | 914.4  | 838.5  | 793.5  | 750.1  | 667.2  | 601.3 | 559.5 | 527.0 | 497.5 | 467.3 | 442.5 |
| 50°    | 845.4  | 779.6  | 738.5  | 693.6  | 614.5  | 554.8 | 513.8 | 486.7 | 462.6 | 434.0 | 413.8 |
| 52.5°  | 771.1  | 713.7  | 678.8  | 635.4  | 565.7  | 510.7 | 468.8 | 441.7 | 421.6 | 400.6 | 382.8 |
| 55°    | 692.0  | 650.2  | 613.0  | 578.1  | 512.2  | 462.6 | 425.4 | 401.4 | 387.5 | 368.1 | 352.6 |
| 57.5°  | 620.7  | 580.4  | 557.9  | 518.4  | 461.1  | 412.3 | 382.8 | 362.7 | 346.4 | 334.8 | 322.4 |
| 60°    | 546.3  | 513.8  | 489.0  | 460.3  | 409.9  | 368.9 | 337.9 | 326.2 | 309.2 | 300.7 | 295.2 |
| 62.5°  | 475.0  | 451.8  | 428.5  | 406.8  | 361.9  | 323.1 | 299.9 | 285.2 | 275.1 | 266.6 | 261.9 |
| 65°    | 407.6  | 385.9  | 369.6  | 350.3  | 313.1  | 282.1 | 260.4 | 248.8 | 238.7 | 236.4 | 230.9 |
| 67.5°  | 341.7  | 332.4  | 314.6  | 299.1  | 267.4  | 243.3 | 227.1 | 212.3 | 206.9 | 204.6 | 199.9 |
| 70°    | 285.9  | 275.1  | 261.2  | 248.0  | 224.0  | 203.0 | 188.3 | 182.9 | 175.1 | 174.4 | 168.9 |
| 72.5°  | 235.6  | 222.4  | 212.3  | 202.3  | 184.4  | 165.8 | 158.1 | 150.3 | 146.5 | 143.4 | 141.0 |
| 75°    | 186.8  | 177.5  | 170.5  | 162.0  | 146.5  | 134.1 | 123.2 | 120.1 | 117.8 | 117.0 | 115.5 |
| 77.5°  | 139.5  | 133.3  | 130.2  | 121.7  | 110.8  | 100.0 | 95.3  | 90.7  | 90.7  | 89.1  | 89.9  |
| 80°    | 99.2   | 95.3   | 91.4   | 86.8   | 77.5   | 72.8  | 69.0  | 65.9  | 64.3  | 63.5  | 64.3  |
| 82.5°  | 62.8   | 60.4   | 59.7   | 56.6   | 50.4   | 48.0  | 44.9  | 42.6  | 42.6  | 42.6  | 42.6  |
| 85°    | 34.9   | 34.9   | 34.9   | 30.2   | 27.9   | 25.6  | 24.0  | 23.2  | 23.2  | 23.2  | 24.0  |
| 87.5°  | 14.7   | 14.7   | 12.4   | 12.4   | 11.6   | 10.1  | 9.3   | 9.3   | 10.1  | 10.1  | 10.8  |
| 90°    | 9.5    | 8.5    | 8.0    | 7.3    | 5.9    | 4.5   | 3.1   | 1.7   | 3.1   | 4.5   | 5.9   |
| 92.5°  | 8.9    | 7.9    | 7.4    | 7.5    | 7.8    | 8.1   | 8.3   | 8.6   | 8.3   | 8.1   | 7.8   |
| 95°    | 12.2   | 12.1   | 12.0   | 14.2   | 18.5   | 22.8  | 27.1  | 31.4  | 27.1  | 22.8  | 18.5  |
| 97.5°  | 52.6   | 65.9   | 72.6   | 71.2   | 68.4   | 65.6  | 62.8  | 60.0  | 62.8  | 65.6  | 68.4  |
| 100°   | 77.7   | 95.2   | 104.0  | 102.9  | 100.6  | 98.3  | 96.0  | 93.7  | 96.0  | 98.3  | 100.6 |
| 102.5° | 140.6  | 139.1  | 138.3  | 137.5  | 136.0  | 134.5 | 132.9 | 131.4 | 132.9 | 134.5 | 136.0 |
| 105°   | 176.4  | 175.8  | 175.5  | 175.1  | 174.3  | 173.6 | 172.8 | 172.0 | 172.8 | 173.6 | 174.3 |
| 107.5° | 212.2  | 211.3  | 210.9  | 210.7  | 210.3  | 210.0 | 209.6 | 209.2 | 209.6 | 210.0 | 210.3 |
| 110°   | 249.7  | 249.0  | 248.6  | 248.4  | 248.0  | 247.7 | 247.3 | 246.9 | 247.3 | 247.7 | 248.0 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 287.3 | 287.0 | 286.9  | 286.5 | 285.8 | 285.0 | 284.3 | 283.5 | 284.3 | 285.0 | 285.8 |
| 115°   | 322.7 | 322.8 | 322.9  | 322.7 | 322.3 | 322.0 | 321.6 | 321.2 | 321.6 | 322.0 | 322.3 |
| 117.5° | 357.8 | 357.4 | 357.2  | 356.9 | 356.4 | 355.9 | 355.4 | 354.9 | 355.4 | 355.9 | 356.4 |
| 120°   | 391.3 | 391.4 | 391.5  | 391.2 | 390.7 | 390.2 | 389.7 | 389.2 | 389.7 | 390.2 | 390.7 |
| 122.5° | 422.7 | 422.4 | 422.3  | 422.2 | 421.9 | 421.7 | 421.4 | 421.2 | 421.4 | 421.7 | 421.9 |
| 125°   | 453.4 | 453.7 | 453.8  | 453.5 | 453.0 | 452.5 | 452.0 | 451.5 | 452.0 | 452.5 | 453.0 |
| 127.5° | 482.2 | 481.5 | 481.2  | 481.1 | 481.0 | 480.9 | 480.7 | 480.6 | 480.7 | 480.9 | 481.0 |
| 130°   | 509.8 | 509.4 | 509.2  | 509.1 | 509.0 | 508.9 | 508.7 | 508.6 | 508.7 | 508.9 | 509.0 |
| 132.5° | 536.3 | 535.8 | 535.5  | 535.4 | 535.1 | 534.9 | 534.6 | 534.4 | 534.6 | 534.9 | 535.1 |
| 135°   | 560.3 | 559.8 | 559.5  | 559.6 | 559.7 | 559.8 | 560.0 | 560.1 | 560.0 | 559.8 | 559.7 |
| 137.5° | 583.9 | 583.2 | 582.9  | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 |
| 140°   | 606.8 | 606.5 | 606.4  | 606.3 | 606.0 | 605.7 | 605.5 | 605.2 | 605.5 | 605.7 | 606.0 |
| 142.5° | 627.7 | 627.6 | 627.5  | 627.2 | 626.7 | 626.2 | 625.7 | 625.2 | 625.7 | 626.2 | 626.7 |
| 145°   | 647.5 | 647.5 | 647.5  | 647.3 | 646.9 | 646.6 | 646.2 | 645.8 | 646.2 | 646.6 | 646.9 |
| 147.5° | 665.0 | 665.1 | 665.2  | 664.8 | 664.1 | 663.3 | 662.6 | 661.8 | 662.6 | 663.3 | 664.1 |
| 150°   | 681.6 | 681.7 | 681.8  | 681.5 | 681.0 | 680.5 | 680.0 | 679.5 | 680.0 | 680.5 | 681.0 |
| 152.5° | 695.7 | 696.0 | 696.1  | 695.9 | 695.5 | 695.2 | 694.8 | 694.4 | 694.8 | 695.2 | 695.5 |
| 155°   | 708.1 | 708.5 | 708.7  | 708.6 | 708.5 | 708.4 | 708.2 | 708.1 | 708.2 | 708.4 | 708.5 |
| 157.5° | 719.3 | 719.8 | 720.1  | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 |
| 160°   | 728.5 | 728.6 | 728.7  | 728.9 | 729.3 | 729.6 | 730.0 | 730.4 | 730.0 | 729.6 | 729.3 |
| 162.5° | 737.0 | 737.1 | 737.2  | 737.5 | 738.0 | 738.5 | 739.0 | 739.5 | 739.0 | 738.5 | 738.0 |
| 165°   | 744.1 | 744.1 | 744.1  | 744.4 | 745.1 | 745.7 | 746.4 | 747.0 | 746.4 | 745.7 | 745.1 |
| 167.5° | 750.2 | 750.3 | 750.4  | 750.7 | 751.4 | 752.0 | 752.7 | 753.3 | 752.7 | 752.0 | 751.4 |
| 170°   | 755.2 | 755.1 | 755.0  | 755.4 | 756.1 | 756.9 | 757.6 | 758.4 | 757.6 | 756.9 | 756.1 |
| 172.5° | 758.6 | 758.5 | 758.4  | 758.8 | 759.5 | 760.3 | 761.0 | 761.8 | 761.0 | 760.3 | 759.5 |
| 175°   | 760.9 | 760.8 | 760.7  | 761.1 | 761.8 | 762.6 | 763.3 | 764.1 | 763.3 | 762.6 | 761.8 |
| 177.5° | 762.2 | 761.9 | 761.8  | 762.2 | 763.1 | 764.0 | 764.9 | 765.8 | 764.9 | 764.0 | 763.1 |
| 180°   | 764.1 | 764.1 | 764.1  | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 935.3 | 935.3  | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 |
| 2.5°   | 921.4 | 918.3  | 919.8 | 912.1 | 905.1 | 895.0 | 886.5 | 885.0 | 883.4 | 888.1 | 885.0 |
| 5°     | 895.0 | 891.2  | 887.3 | 878.0 | 864.0 | 855.5 | 843.1 | 842.3 | 837.7 | 830.7 | 832.3 |
| 7.5°   | 866.4 | 864.0  | 858.6 | 843.9 | 831.5 | 816.8 | 806.7 | 798.2 | 794.3 | 788.1 | 785.8 |
| 10°    | 843.1 | 834.6  | 829.9 | 813.7 | 799.0 | 783.5 | 770.3 | 764.1 | 757.1 | 751.7 | 747.8 |
| 12.5°  | 811.4 | 809.0  | 795.9 | 782.7 | 770.3 | 752.5 | 742.4 | 724.6 | 715.3 | 719.9 | 718.4 |
| 15°    | 790.4 | 779.6  | 776.5 | 757.9 | 737.0 | 725.3 | 706.7 | 695.1 | 691.2 | 684.3 | 675.7 |
| 17.5°  | 762.5 | 755.6  | 744.7 | 727.7 | 703.6 | 687.4 | 674.2 | 663.3 | 658.7 | 649.4 | 642.4 |
| 20°    | 736.2 | 724.6  | 716.0 | 700.5 | 677.3 | 656.4 | 640.1 | 633.1 | 621.5 | 613.7 | 609.9 |
| 22.5°  | 712.2 | 703.6  | 691.2 | 668.0 | 647.8 | 627.7 | 608.3 | 598.2 | 587.4 | 582.7 | 576.5 |
| 25°    | 682.7 | 668.8  | 660.2 | 634.7 | 613.0 | 596.7 | 578.9 | 565.7 | 559.5 | 551.7 | 550.2 |
| 27.5°  | 654.0 | 640.9  | 630.8 | 608.3 | 582.0 | 561.0 | 550.2 | 540.9 | 530.1 | 530.1 | 526.2 |
| 30°    | 625.4 | 616.1  | 600.6 | 578.9 | 554.1 | 533.9 | 521.5 | 513.0 | 509.1 | 506.0 | 505.3 |
| 32.5°  | 596.7 | 584.3  | 575.0 | 545.5 | 527.0 | 508.4 | 499.1 | 492.1 | 487.4 | 486.7 | 487.4 |
| 35°    | 567.2 | 553.3  | 544.0 | 517.7 | 499.1 | 482.0 | 478.1 | 471.9 | 469.6 | 468.8 | 472.7 |
| 37.5°  | 536.3 | 525.4  | 513.8 | 492.1 | 471.2 | 461.1 | 453.3 | 451.0 | 450.2 | 454.9 | 456.4 |
| 40°    | 507.6 | 498.3  | 487.4 | 464.2 | 448.7 | 437.8 | 434.0 | 431.6 | 434.7 | 439.4 | 441.7 |
| 42.5°  | 480.5 | 467.3  | 458.8 | 437.8 | 423.9 | 417.7 | 413.0 | 413.0 | 416.1 | 421.6 | 425.4 |
| 45°    | 451.8 | 441.7  | 433.2 | 414.6 | 402.2 | 395.2 | 394.4 | 395.2 | 399.1 | 403.0 | 407.6 |
| 47.5°  | 423.9 | 413.8  | 404.5 | 389.0 | 378.2 | 374.3 | 373.5 | 374.3 | 380.5 | 385.9 | 391.3 |
| 50°    | 398.3 | 387.5  | 378.9 | 364.2 | 355.7 | 351.0 | 351.8 | 355.7 | 360.3 | 368.1 | 375.1 |
| 52.5°  | 368.1 | 360.3  | 352.6 | 339.4 | 331.7 | 328.6 | 330.9 | 334.0 | 342.5 | 347.9 | 356.5 |
| 55°    | 338.6 | 331.7  | 325.5 | 315.4 | 309.2 | 306.9 | 308.4 | 313.1 | 320.0 | 329.3 | 339.4 |
| 57.5°  | 311.5 | 303.8  | 297.6 | 290.6 | 283.6 | 284.4 | 285.2 | 291.4 | 299.9 | 308.4 | 320.0 |
| 60°    | 281.3 | 276.6  | 271.2 | 262.7 | 259.6 | 259.6 | 261.9 | 268.9 | 276.6 | 290.6 | 300.7 |
| 62.5°  | 254.2 | 248.0  | 244.1 | 238.7 | 234.0 | 234.8 | 240.2 | 246.4 | 255.7 | 267.4 | 280.5 |
| 65°    | 226.3 | 219.3  | 216.2 | 211.6 | 210.0 | 210.8 | 214.7 | 224.0 | 234.0 | 244.1 | 256.5 |
| 67.5°  | 195.3 | 193.0  | 189.9 | 185.2 | 186.8 | 187.5 | 191.4 | 199.2 | 210.0 | 220.1 | 234.0 |
| 70°    | 168.9 | 164.3  | 163.5 | 159.6 | 159.6 | 162.0 | 169.7 | 175.1 | 185.2 | 196.1 | 210.8 |
| 72.5°  | 141.0 | 137.2  | 137.2 | 134.1 | 136.4 | 138.7 | 142.6 | 150.3 | 159.6 | 170.5 | 182.9 |
| 75°    | 112.4 | 110.8  | 112.4 | 110.8 | 110.8 | 114.7 | 119.3 | 125.5 | 135.6 | 147.2 | 157.3 |
| 77.5°  | 86.8  | 86.8   | 86.0  | 88.3  | 88.3  | 90.7  | 96.9  | 103.1 | 110.8 | 120.1 | 131.0 |
| 80°    | 63.5  | 63.5   | 63.5  | 65.9  | 68.2  | 68.2  | 72.1  | 79.8  | 86.8  | 93.0  | 103.1 |
| 82.5°  | 43.4  | 43.4   | 43.4  | 44.9  | 48.0  | 48.0  | 52.7  | 57.3  | 65.1  | 70.5  | 75.2  |
| 85°    | 26.3  | 26.3   | 25.6  | 27.1  | 27.9  | 30.2  | 34.1  | 37.2  | 41.1  | 45.7  | 50.4  |
| 87.5°  | 11.6  | 11.6   | 12.4  | 13.2  | 13.9  | 15.5  | 17.0  | 18.6  | 22.5  | 24.0  | 26.3  |
| 90°    | 7.3   | 8.0    | 8.5   | 9.5   | 10.6  | 11.6  | 12.6  | 13.4  | 14.1  | 14.9  | 15.6  |
| 92.5°  | 7.5   | 7.4    | 7.9   | 8.9   | 10.0  | 11.0  | 12.0  | 12.8  | 13.5  | 14.3  | 15.0  |
| 95°    | 14.2  | 12.0   | 12.1  | 12.2  | 12.3  | 12.5  | 12.6  | 13.4  | 14.1  | 14.9  | 15.6  |
| 97.5°  | 71.2  | 72.6   | 65.9  | 52.6  | 39.3  | 25.9  | 12.6  | 13.2  | 13.8  | 14.5  | 15.1  |
| 100°   | 102.9 | 104.0  | 95.2  | 77.7  | 60.2  | 42.6  | 25.1  | 22.9  | 20.8  | 18.6  | 16.5  |
| 102.5° | 137.5 | 138.3  | 139.1 | 140.6 | 142.1 | 143.7 | 145.2 | 116.6 | 88.0  | 59.5  | 30.9  |
| 105°   | 175.1 | 175.5  | 175.8 | 176.4 | 177.1 | 177.7 | 178.3 | 179.5 | 180.6 | 181.8 | 182.9 |
| 107.5° | 210.7 | 210.9  | 211.3 | 212.2 | 213.1 | 214.0 | 214.9 | 215.5 | 216.1 | 216.8 | 217.4 |
| 110°   | 248.4 | 248.6  | 249.0 | 249.7 | 250.5 | 251.2 | 252.0 | 252.3 | 252.5 | 252.8 | 253.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 286.5 | 286.9  | 287.0 | 287.3 | 287.5 | 287.8 | 288.0 | 287.9 | 287.8 | 287.7 | 287.6 |
| 115°   | 322.7 | 322.9  | 322.8 | 322.7 | 322.6 | 322.4 | 322.3 | 322.6 | 322.8 | 323.1 | 323.4 |
| 117.5° | 356.9 | 357.2  | 357.4 | 357.8 | 358.1 | 358.5 | 358.9 | 358.8 | 358.6 | 358.5 | 358.4 |
| 120°   | 391.2 | 391.5  | 391.4 | 391.3 | 391.2 | 391.0 | 390.9 | 391.2 | 391.4 | 391.7 | 392.0 |
| 122.5° | 422.2 | 422.3  | 422.4 | 422.7 | 423.0 | 423.2 | 423.5 | 423.6 | 423.8 | 423.9 | 424.0 |
| 125°   | 453.5 | 453.8  | 453.7 | 453.4 | 453.1 | 452.9 | 452.6 | 453.0 | 453.4 | 453.8 | 454.2 |
| 127.5° | 481.1 | 481.2  | 481.5 | 482.2 | 482.8 | 483.5 | 484.1 | 484.0 | 483.8 | 483.7 | 483.6 |
| 130°   | 509.1 | 509.2  | 509.4 | 509.8 | 510.1 | 510.5 | 510.9 | 511.0 | 511.2 | 511.3 | 511.4 |
| 132.5° | 535.4 | 535.5  | 535.8 | 536.3 | 536.8 | 537.3 | 537.8 | 537.9 | 538.1 | 538.2 | 538.3 |
| 135°   | 559.6 | 559.5  | 559.8 | 560.3 | 560.8 | 561.3 | 561.8 | 562.0 | 562.3 | 562.5 | 562.8 |
| 137.5° | 582.9 | 582.9  | 583.2 | 583.9 | 584.5 | 585.2 | 585.8 | 586.0 | 586.3 | 586.5 | 586.8 |
| 140°   | 606.3 | 606.4  | 606.5 | 606.8 | 607.0 | 607.3 | 607.5 | 607.9 | 608.3 | 608.6 | 609.0 |
| 142.5° | 627.2 | 627.5  | 627.6 | 627.7 | 627.8 | 628.0 | 628.1 | 628.3 | 628.6 | 628.8 | 629.1 |
| 145°   | 647.3 | 647.5  | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.6 | 647.8 | 647.9 | 648.0 |
| 147.5° | 664.8 | 665.2  | 665.1 | 665.0 | 664.9 | 664.8 | 664.7 | 664.8 | 664.9 | 665.0 | 665.1 |
| 150°   | 681.5 | 681.8  | 681.7 | 681.6 | 681.5 | 681.3 | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 |
| 152.5° | 695.9 | 696.1  | 696.0 | 695.7 | 695.5 | 695.2 | 695.0 | 695.2 | 695.5 | 695.7 | 696.0 |
| 155°   | 708.6 | 708.7  | 708.5 | 708.1 | 707.8 | 707.4 | 707.0 | 707.5 | 708.0 | 708.5 | 709.0 |
| 157.5° | 720.1 | 720.1  | 719.8 | 719.3 | 718.8 | 718.3 | 717.8 | 718.4 | 719.1 | 719.7 | 720.4 |
| 160°   | 728.9 | 728.7  | 728.6 | 728.5 | 728.4 | 728.2 | 728.1 | 728.9 | 729.6 | 730.4 | 731.1 |
| 162.5° | 737.5 | 737.2  | 737.1 | 737.0 | 736.9 | 736.8 | 736.7 | 737.5 | 738.2 | 739.0 | 739.7 |
| 165°   | 744.4 | 744.1  | 744.1 | 744.1 | 744.1 | 744.1 | 744.1 | 745.1 | 746.1 | 747.2 | 748.2 |
| 167.5° | 750.7 | 750.4  | 750.3 | 750.2 | 750.1 | 749.9 | 749.8 | 751.0 | 752.1 | 753.3 | 754.4 |
| 170°   | 755.4 | 755.0  | 755.1 | 755.2 | 755.3 | 755.4 | 755.5 | 756.5 | 757.5 | 758.6 | 759.6 |
| 172.5° | 758.8 | 758.4  | 758.5 | 758.6 | 758.7 | 758.9 | 759.0 | 760.0 | 761.0 | 762.0 | 763.0 |
| 175°   | 761.1 | 760.7  | 760.8 | 760.9 | 761.0 | 761.2 | 761.3 | 762.4 | 763.6 | 764.7 | 765.8 |
| 177.5° | 762.2 | 761.8  | 761.9 | 762.2 | 762.5 | 762.7 | 763.0 | 764.0 | 765.0 | 766.0 | 767.0 |
| 180°   | 764.1 | 764.1  | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 935.3  | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3  |
| 2.5°   | 882.6  | 881.9 | 878.0 | 879.5 | 874.9 | 876.4 | 878.8 | 879.5 | 882.6 | 880.3 | 879.5  |
| 5°     | 828.4  | 826.8 | 824.5 | 822.2 | 821.4 | 824.5 | 819.1 | 820.6 | 822.2 | 824.5 | 827.6  |
| 7.5°   | 784.2  | 783.5 | 781.1 | 777.3 | 775.7 | 774.2 | 774.9 | 780.4 | 779.6 | 778.8 | 784.2  |
| 10°    | 743.9  | 744.7 | 740.1 | 739.3 | 734.6 | 733.9 | 734.6 | 736.2 | 738.5 | 741.6 | 742.4  |
| 12.5°  | 702.1  | 712.2 | 703.6 | 700.5 | 693.6 | 697.4 | 699.0 | 692.0 | 695.9 | 698.2 | 709.8  |
| 15°    | 675.7  | 671.1 | 665.7 | 665.7 | 662.6 | 661.0 | 657.1 | 662.6 | 665.7 | 670.3 | 668.8  |
| 17.5°  | 639.3  | 631.6 | 628.5 | 625.4 | 626.1 | 629.2 | 620.7 | 633.1 | 633.1 | 635.4 | 631.6  |
| 20°    | 607.5  | 601.3 | 597.5 | 595.9 | 593.6 | 592.0 | 591.3 | 594.4 | 599.0 | 600.6 | 604.4  |
| 22.5°  | 574.2  | 574.2 | 568.0 | 565.7 | 564.1 | 561.8 | 565.7 | 563.4 | 566.5 | 569.6 | 575.8  |
| 25°    | 546.3  | 546.3 | 544.0 | 540.9 | 538.6 | 537.0 | 539.4 | 538.6 | 540.9 | 544.8 | 546.3  |
| 27.5°  | 523.9  | 521.5 | 520.8 | 520.0 | 519.2 | 520.0 | 519.2 | 521.5 | 523.9 | 524.6 | 523.1  |
| 30°    | 504.5  | 502.2 | 502.9 | 502.9 | 503.7 | 502.9 | 502.2 | 504.5 | 505.3 | 503.7 | 504.5  |
| 32.5°  | 486.7  | 486.7 | 488.2 | 489.0 | 489.0 | 489.8 | 490.5 | 489.0 | 489.8 | 487.4 | 488.2  |
| 35°    | 471.9  | 473.5 | 475.0 | 475.8 | 476.6 | 475.8 | 477.4 | 476.6 | 475.0 | 473.5 | 472.7  |
| 37.5°  | 457.2  | 458.8 | 461.9 | 462.6 | 465.0 | 465.7 | 464.2 | 464.2 | 463.4 | 460.3 | 458.8  |
| 40°    | 441.7  | 443.3 | 447.1 | 449.5 | 451.0 | 453.3 | 451.8 | 451.8 | 448.7 | 445.6 | 443.3  |
| 42.5°  | 427.0  | 430.1 | 434.0 | 436.3 | 439.4 | 439.4 | 439.4 | 437.8 | 434.0 | 430.9 | 428.5  |
| 45°    | 412.3  | 413.0 | 418.5 | 422.3 | 425.4 | 425.4 | 425.4 | 423.1 | 420.8 | 414.6 | 411.5  |
| 47.5°  | 396.0  | 398.3 | 404.5 | 408.4 | 411.5 | 412.3 | 412.3 | 409.9 | 405.3 | 399.9 | 396.0  |
| 50°    | 378.2  | 382.0 | 389.0 | 394.4 | 398.3 | 399.9 | 397.5 | 396.0 | 390.6 | 384.4 | 379.7  |
| 52.5°  | 361.1  | 365.8 | 374.3 | 378.9 | 384.4 | 385.1 | 384.4 | 382.0 | 375.8 | 367.3 | 363.4  |
| 55°    | 344.1  | 347.9 | 357.2 | 365.0 | 369.6 | 371.2 | 369.6 | 365.8 | 358.0 | 349.5 | 345.6  |
| 57.5°  | 325.5  | 330.9 | 341.0 | 348.7 | 354.1 | 354.9 | 353.4 | 349.5 | 343.3 | 332.4 | 327.0  |
| 60°    | 306.1  | 313.1 | 323.1 | 330.9 | 337.9 | 338.6 | 337.1 | 331.7 | 323.9 | 313.1 | 308.4  |
| 62.5°  | 286.7  | 292.1 | 303.8 | 312.3 | 317.7 | 321.6 | 318.5 | 313.1 | 305.3 | 294.5 | 287.5  |
| 65°    | 264.3  | 272.0 | 282.1 | 289.8 | 296.0 | 296.8 | 295.2 | 290.6 | 282.1 | 270.5 | 265.0  |
| 67.5°  | 242.6  | 248.0 | 258.1 | 268.1 | 270.5 | 272.8 | 270.5 | 265.8 | 258.8 | 248.8 | 241.0  |
| 70°    | 216.2  | 220.9 | 233.3 | 240.2 | 243.3 | 245.7 | 244.1 | 239.5 | 233.3 | 224.0 | 217.8  |
| 72.5°  | 189.9  | 193.7 | 205.4 | 210.8 | 217.0 | 216.2 | 215.4 | 212.3 | 203.8 | 197.6 | 193.7  |
| 75°    | 162.0  | 166.6 | 174.4 | 181.3 | 183.7 | 183.7 | 183.7 | 181.3 | 175.9 | 165.8 | 162.0  |
| 77.5°  | 136.4  | 138.7 | 144.9 | 148.8 | 151.1 | 151.9 | 151.1 | 147.2 | 144.1 | 137.2 | 134.8  |
| 80°    | 104.6  | 110.8 | 115.5 | 116.2 | 119.3 | 119.3 | 119.3 | 117.8 | 114.7 | 107.7 | 106.9  |
| 82.5°  | 79.0   | 80.6  | 85.2  | 87.6  | 89.1  | 88.3  | 88.3  | 85.2  | 84.5  | 80.6  | 79.0   |
| 85°    | 53.5   | 55.8  | 55.0  | 58.1  | 58.9  | 57.3  | 57.3  | 58.9  | 55.0  | 55.8  | 53.5   |
| 87.5°  | 29.4   | 29.4  | 31.0  | 30.2  | 33.3  | 33.3  | 31.8  | 32.5  | 31.0  | 30.2  | 29.4   |
| 90°    | 16.0   | 16.1  | 16.4  | 16.6  | 16.9  | 17.1  | 16.9  | 16.6  | 16.4  | 16.1  | 16.0   |
| 92.5°  | 15.4   | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4   |
| 95°    | 16.0   | 16.1  | 16.2  | 16.3  | 16.5  | 16.6  | 16.5  | 16.3  | 16.2  | 16.1  | 16.0   |
| 97.5°  | 15.4   | 15.5  | 15.6  | 15.7  | 15.9  | 16.0  | 15.9  | 15.7  | 15.6  | 15.5  | 15.4   |
| 100°   | 15.4   | 15.5  | 15.6  | 15.7  | 15.9  | 16.0  | 15.9  | 15.7  | 15.6  | 15.5  | 15.4   |
| 102.5° | 16.6   | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  | 16.6   |
| 105°   | 183.5  | 181.2 | 176.6 | 172.1 | 167.5 | 162.9 | 167.5 | 172.1 | 176.6 | 181.2 | 183.5  |
| 107.5° | 217.7  | 218.0 | 218.5 | 219.0 | 219.5 | 220.0 | 219.5 | 219.0 | 218.5 | 218.0 | 217.7  |
| 110°   | 253.2  | 253.4 | 253.8 | 254.1 | 254.5 | 254.9 | 254.5 | 254.1 | 253.8 | 253.4 | 253.2  |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 287.5  | 287.8 | 288.3 | 288.8 | 289.3 | 289.8 | 289.3 | 288.8 | 288.3 | 287.8 | 287.5  |
| 115°   | 323.5  | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5  |
| 117.5° | 358.3  | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3 | 358.3  |
| 120°   | 392.1  | 392.0 | 391.7 | 391.4 | 391.2 | 390.9 | 391.2 | 391.4 | 391.7 | 392.0 | 392.1  |
| 122.5° | 424.1  | 424.0 | 423.7 | 423.4 | 423.2 | 422.9 | 423.2 | 423.4 | 423.7 | 424.0 | 424.1  |
| 125°   | 454.4  | 454.5 | 454.6 | 454.7 | 454.8 | 454.9 | 454.8 | 454.7 | 454.6 | 454.5 | 454.4  |
| 127.5° | 483.5  | 483.4 | 483.3 | 483.2 | 483.0 | 482.9 | 483.0 | 483.2 | 483.3 | 483.4 | 483.5  |
| 130°   | 511.5  | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.5  |
| 132.5° | 538.4  | 538.3 | 538.2 | 538.1 | 537.9 | 537.8 | 537.9 | 538.1 | 538.2 | 538.3 | 538.4  |
| 135°   | 562.9  | 563.0 | 563.3 | 563.6 | 563.8 | 564.1 | 563.8 | 563.6 | 563.3 | 563.0 | 562.9  |
| 137.5° | 586.9  | 586.8 | 586.7 | 586.6 | 586.5 | 586.4 | 586.5 | 586.6 | 586.7 | 586.8 | 586.9  |
| 140°   | 609.2  | 609.3 | 609.4 | 609.5 | 609.7 | 609.8 | 609.7 | 609.5 | 609.4 | 609.3 | 609.2  |
| 142.5° | 629.2  | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2  |
| 145°   | 648.1  | 648.2 | 648.5 | 648.7 | 649.0 | 649.2 | 649.0 | 648.7 | 648.5 | 648.2 | 648.1  |
| 147.5° | 665.2  | 665.3 | 665.4 | 665.5 | 665.7 | 665.8 | 665.7 | 665.5 | 665.4 | 665.3 | 665.2  |
| 150°   | 681.2  | 681.3 | 681.4 | 681.5 | 681.7 | 681.8 | 681.7 | 681.5 | 681.4 | 681.3 | 681.2  |
| 152.5° | 696.1  | 696.0 | 695.9 | 695.8 | 695.6 | 695.5 | 695.6 | 695.8 | 695.9 | 696.0 | 696.1  |
| 155°   | 709.2  | 709.0 | 708.6 | 708.3 | 707.9 | 707.5 | 707.9 | 708.3 | 708.6 | 709.0 | 709.2  |
| 157.5° | 720.7  | 720.4 | 719.7 | 719.1 | 718.4 | 717.8 | 718.4 | 719.1 | 719.7 | 720.4 | 720.7  |
| 160°   | 731.5  | 731.1 | 730.4 | 729.6 | 728.9 | 728.1 | 728.9 | 729.6 | 730.4 | 731.1 | 731.5  |
| 162.5° | 740.1  | 739.7 | 738.8 | 737.9 | 737.0 | 736.1 | 737.0 | 737.9 | 738.8 | 739.7 | 740.1  |
| 165°   | 748.7  | 748.1 | 747.0 | 745.8 | 744.7 | 743.5 | 744.7 | 745.8 | 747.0 | 748.1 | 748.7  |
| 167.5° | 755.0  | 754.4 | 753.1 | 751.8 | 750.5 | 749.2 | 750.5 | 751.8 | 753.1 | 754.4 | 755.0  |
| 170°   | 760.1  | 759.5 | 758.2 | 756.9 | 755.7 | 754.4 | 755.7 | 756.9 | 758.2 | 759.5 | 760.1  |
| 172.5° | 763.5  | 762.8 | 761.4 | 760.1 | 758.7 | 757.3 | 758.7 | 760.1 | 761.4 | 762.8 | 763.5  |
| 175°   | 766.4  | 765.6 | 764.1 | 762.6 | 761.0 | 759.5 | 761.0 | 762.6 | 764.1 | 765.6 | 766.4  |
| 177.5° | 767.5  | 766.7 | 765.2 | 763.7 | 762.2 | 760.7 | 762.2 | 763.7 | 765.2 | 766.7 | 767.5  |
| 180°   | 764.1  | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1  |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°     | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3 | 935.3  | 935.3 |
| 2.5°   | 879.5 | 884.2 | 879.5 | 882.6 | 884.2 | 888.1 | 889.6 | 896.6 | 898.9 | 904.3  | 904.3 |
| 5°     | 826.8 | 829.2 | 829.9 | 833.0 | 836.1 | 843.9 | 849.3 | 859.4 | 871.0 | 872.6  | 879.5 |
| 7.5°   | 784.2 | 788.1 | 794.3 | 792.0 | 797.4 | 809.0 | 816.0 | 828.4 | 840.0 | 846.2  | 854.7 |
| 10°    | 746.3 | 750.9 | 753.2 | 755.6 | 765.6 | 775.7 | 786.6 | 795.1 | 810.6 | 819.9  | 826.8 |
| 12.5°  | 715.3 | 711.4 | 716.0 | 724.6 | 736.2 | 742.4 | 757.1 | 770.3 | 781.9 | 792.0  | 798.2 |
| 15°    | 675.0 | 678.1 | 682.7 | 697.4 | 700.5 | 716.0 | 721.5 | 736.2 | 757.9 | 767.2  | 774.9 |
| 17.5°  | 636.2 | 646.3 | 655.6 | 661.0 | 670.3 | 682.7 | 698.2 | 714.5 | 728.4 | 739.3  | 748.6 |
| 20°    | 605.2 | 615.3 | 620.7 | 624.6 | 633.9 | 650.9 | 665.7 | 685.8 | 703.6 | 712.2  | 724.6 |
| 22.5°  | 580.4 | 580.4 | 588.2 | 599.8 | 605.2 | 621.5 | 633.9 | 655.6 | 675.0 | 685.8  | 697.4 |
| 25°    | 549.4 | 554.1 | 560.3 | 570.3 | 578.1 | 591.3 | 609.1 | 627.7 | 648.6 | 657.9  | 672.6 |
| 27.5°  | 523.9 | 529.3 | 537.8 | 540.1 | 547.9 | 559.5 | 578.1 | 598.2 | 619.9 | 630.0  | 642.4 |
| 30°    | 504.5 | 507.6 | 510.7 | 515.3 | 522.3 | 532.4 | 547.9 | 565.7 | 592.0 | 599.8  | 615.3 |
| 32.5°  | 487.4 | 489.0 | 490.5 | 494.4 | 498.3 | 508.4 | 520.8 | 540.1 | 561.8 | 573.4  | 587.4 |
| 35°    | 471.9 | 470.4 | 471.2 | 473.5 | 477.4 | 481.2 | 494.4 | 510.7 | 530.8 | 544.8  | 555.6 |
| 37.5°  | 457.2 | 454.1 | 453.3 | 453.3 | 454.9 | 459.5 | 469.6 | 483.6 | 505.3 | 516.9  | 527.7 |
| 40°    | 440.9 | 437.8 | 436.3 | 435.5 | 434.7 | 437.8 | 445.6 | 459.5 | 476.6 | 487.4  | 499.8 |
| 42.5°  | 425.4 | 422.3 | 418.5 | 417.7 | 416.1 | 417.7 | 423.1 | 436.3 | 451.0 | 461.9  | 471.9 |
| 45°    | 409.9 | 404.5 | 399.9 | 396.8 | 397.5 | 395.2 | 399.1 | 409.2 | 426.2 | 433.2  | 443.3 |
| 47.5°  | 392.9 | 386.7 | 380.5 | 377.4 | 374.3 | 375.8 | 377.4 | 385.9 | 400.6 | 407.6  | 417.7 |
| 50°    | 376.6 | 368.1 | 361.1 | 357.2 | 354.9 | 353.4 | 354.9 | 363.4 | 374.3 | 380.5  | 389.0 |
| 52.5°  | 358.0 | 349.5 | 342.5 | 336.3 | 333.2 | 330.9 | 331.7 | 339.4 | 349.5 | 355.7  | 364.2 |
| 55°    | 341.0 | 330.1 | 320.8 | 313.1 | 310.7 | 310.0 | 309.2 | 314.6 | 323.1 | 329.3  | 336.3 |
| 57.5°  | 321.6 | 310.7 | 300.7 | 291.4 | 286.7 | 285.9 | 285.9 | 287.5 | 298.3 | 303.0  | 306.9 |
| 60°    | 302.2 | 290.6 | 279.7 | 271.2 | 264.3 | 261.9 | 261.2 | 264.3 | 269.7 | 274.3  | 279.7 |
| 62.5°  | 280.5 | 268.9 | 255.7 | 248.0 | 241.0 | 234.8 | 237.1 | 237.9 | 245.7 | 248.0  | 252.6 |
| 65°    | 259.6 | 246.4 | 235.6 | 223.2 | 215.4 | 211.6 | 210.0 | 211.6 | 217.8 | 218.5  | 221.6 |
| 67.5°  | 235.6 | 223.2 | 210.0 | 201.5 | 194.5 | 187.5 | 186.0 | 186.0 | 189.1 | 191.4  | 195.3 |
| 70°    | 212.3 | 199.9 | 185.2 | 175.9 | 168.9 | 162.7 | 160.4 | 159.6 | 162.0 | 163.5  | 167.4 |
| 72.5°  | 185.2 | 172.8 | 162.0 | 151.9 | 143.4 | 138.7 | 136.4 | 134.8 | 137.2 | 138.7  | 139.5 |
| 75°    | 156.5 | 146.5 | 135.6 | 125.5 | 120.1 | 115.5 | 112.4 | 110.0 | 111.6 | 111.6  | 111.6 |
| 77.5°  | 129.4 | 119.3 | 110.8 | 103.8 | 96.9  | 91.4  | 89.1  | 86.8  | 87.6  | 87.6   | 89.1  |
| 80°    | 100.7 | 93.8  | 86.8  | 80.6  | 74.4  | 69.7  | 68.2  | 65.9  | 64.3  | 63.5   | 63.5  |
| 82.5°  | 74.4  | 69.0  | 62.8  | 57.3  | 54.2  | 49.6  | 48.0  | 44.9  | 44.9  | 44.2   | 44.2  |
| 85°    | 49.6  | 46.5  | 40.3  | 36.4  | 34.1  | 31.8  | 30.2  | 28.7  | 26.3  | 26.3   | 25.6  |
| 87.5°  | 26.3  | 24.8  | 23.2  | 18.6  | 18.6  | 16.3  | 15.5  | 14.7  | 12.4  | 13.2   | 13.2  |
| 90°    | 15.6  | 14.9  | 14.1  | 13.4  | 12.6  | 11.6  | 10.6  | 9.5   | 8.5   | 8.0    | 7.3   |
| 92.5°  | 15.0  | 14.3  | 13.5  | 12.8  | 12.0  | 11.0  | 10.0  | 8.9   | 7.9   | 7.4    | 7.5   |
| 95°    | 15.6  | 14.9  | 14.1  | 13.4  | 12.6  | 12.5  | 12.3  | 12.2  | 12.1  | 12.0   | 14.2  |
| 97.5°  | 15.1  | 14.5  | 13.8  | 13.2  | 12.6  | 25.9  | 39.3  | 52.6  | 65.9  | 72.6   | 71.2  |
| 100°   | 16.5  | 18.6  | 20.8  | 22.9  | 25.1  | 42.6  | 60.2  | 77.7  | 95.2  | 104.0  | 102.9 |
| 102.5° | 30.9  | 59.5  | 88.0  | 116.6 | 145.2 | 143.7 | 142.1 | 140.6 | 139.1 | 138.3  | 137.5 |
| 105°   | 182.9 | 181.8 | 180.6 | 179.5 | 178.3 | 177.7 | 177.1 | 176.4 | 175.8 | 175.5  | 175.1 |
| 107.5° | 217.4 | 216.8 | 216.1 | 215.5 | 214.9 | 214.0 | 213.1 | 212.2 | 211.3 | 210.9  | 210.7 |
| 110°   | 253.1 | 252.8 | 252.5 | 252.3 | 252.0 | 251.2 | 250.5 | 249.7 | 249.0 | 248.6  | 248.4 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 287.6 | 287.7 | 287.8 | 287.9 | 288.0 | 287.8 | 287.5 | 287.3 | 287.0 | 286.9  | 286.5 |
| 115°   | 323.4 | 323.1 | 322.8 | 322.6 | 322.3 | 322.4 | 322.6 | 322.7 | 322.8 | 322.9  | 322.7 |
| 117.5° | 358.4 | 358.5 | 358.6 | 358.8 | 358.9 | 358.5 | 358.1 | 357.8 | 357.4 | 357.2  | 356.9 |
| 120°   | 392.0 | 391.7 | 391.4 | 391.2 | 390.9 | 391.0 | 391.2 | 391.3 | 391.4 | 391.5  | 391.2 |
| 122.5° | 424.0 | 423.9 | 423.8 | 423.6 | 423.5 | 423.2 | 423.0 | 422.7 | 422.4 | 422.3  | 422.2 |
| 125°   | 454.2 | 453.8 | 453.4 | 453.0 | 452.6 | 452.9 | 453.1 | 453.4 | 453.7 | 453.8  | 453.5 |
| 127.5° | 483.6 | 483.7 | 483.8 | 484.0 | 484.1 | 483.5 | 482.8 | 482.2 | 481.5 | 481.2  | 481.1 |
| 130°   | 511.4 | 511.3 | 511.2 | 511.0 | 510.9 | 510.5 | 510.1 | 509.8 | 509.4 | 509.2  | 509.1 |
| 132.5° | 538.3 | 538.2 | 538.1 | 537.9 | 537.8 | 537.3 | 536.8 | 536.3 | 535.8 | 535.5  | 535.4 |
| 135°   | 562.8 | 562.5 | 562.3 | 562.0 | 561.8 | 561.3 | 560.8 | 560.3 | 559.8 | 559.5  | 559.6 |
| 137.5° | 586.8 | 586.5 | 586.3 | 586.0 | 585.8 | 585.2 | 584.5 | 583.9 | 583.2 | 582.9  | 582.9 |
| 140°   | 609.0 | 608.6 | 608.3 | 607.9 | 607.5 | 607.3 | 607.0 | 606.8 | 606.5 | 606.4  | 606.3 |
| 142.5° | 629.1 | 628.8 | 628.6 | 628.3 | 628.1 | 628.0 | 627.8 | 627.7 | 627.6 | 627.5  | 627.2 |
| 145°   | 648.0 | 647.9 | 647.8 | 647.6 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5  | 647.3 |
| 147.5° | 665.1 | 665.0 | 664.9 | 664.8 | 664.7 | 664.8 | 664.9 | 665.0 | 665.1 | 665.2  | 664.8 |
| 150°   | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.3 | 681.5 | 681.6 | 681.7 | 681.8  | 681.5 |
| 152.5° | 696.0 | 695.7 | 695.5 | 695.2 | 695.0 | 695.2 | 695.5 | 695.7 | 696.0 | 696.1  | 695.9 |
| 155°   | 709.0 | 708.5 | 708.0 | 707.5 | 707.0 | 707.4 | 707.8 | 708.1 | 708.5 | 708.7  | 708.6 |
| 157.5° | 720.4 | 719.7 | 719.1 | 718.4 | 717.8 | 718.3 | 718.8 | 719.3 | 719.8 | 720.1  | 720.1 |
| 160°   | 731.1 | 730.4 | 729.6 | 728.9 | 728.1 | 728.2 | 728.4 | 728.5 | 728.6 | 728.7  | 728.9 |
| 162.5° | 739.7 | 739.0 | 738.2 | 737.5 | 736.7 | 736.8 | 736.9 | 737.0 | 737.1 | 737.2  | 737.5 |
| 165°   | 748.2 | 747.2 | 746.1 | 745.1 | 744.1 | 744.1 | 744.1 | 744.1 | 744.1 | 744.1  | 744.4 |
| 167.5° | 754.4 | 753.3 | 752.1 | 751.0 | 749.8 | 749.9 | 750.1 | 750.2 | 750.3 | 750.4  | 750.7 |
| 170°   | 759.6 | 758.6 | 757.5 | 756.5 | 755.5 | 755.4 | 755.3 | 755.2 | 755.1 | 755.0  | 755.4 |
| 172.5° | 763.0 | 762.0 | 761.0 | 760.0 | 759.0 | 758.9 | 758.7 | 758.6 | 758.5 | 758.4  | 758.8 |
| 175°   | 765.8 | 764.7 | 763.6 | 762.4 | 761.3 | 761.2 | 761.0 | 760.9 | 760.8 | 760.7  | 761.1 |
| 177.5° | 767.0 | 766.0 | 765.0 | 764.0 | 763.0 | 762.7 | 762.5 | 762.2 | 761.9 | 761.8  | 762.2 |
| 180°   | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1 | 764.1  | 764.1 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 0°     | 935.3 | 935.3 | 935.3 | 935.3 |
| 2.5°   | 909.8 | 917.5 | 924.5 | 935.3 |
| 5°     | 889.6 | 900.5 | 915.2 | 931.5 |
| 7.5°   | 866.4 | 883.4 | 902.8 | 925.3 |
| 10°    | 844.7 | 864.0 | 888.8 | 916.0 |
| 12.5°  | 822.2 | 845.4 | 872.6 | 902.0 |
| 15°    | 796.6 | 819.9 | 850.1 | 889.6 |
| 17.5°  | 773.4 | 801.3 | 833.8 | 875.7 |
| 20°    | 746.3 | 772.6 | 808.3 | 856.3 |
| 22.5°  | 722.2 | 752.5 | 792.0 | 833.8 |
| 25°    | 695.9 | 722.2 | 761.8 | 812.1 |
| 27.5°  | 669.5 | 702.1 | 740.1 | 788.9 |
| 30°    | 644.0 | 671.1 | 712.2 | 763.3 |
| 32.5°  | 616.1 | 648.6 | 686.6 | 734.6 |
| 35°    | 585.8 | 616.8 | 652.5 | 704.4 |
| 37.5°  | 558.7 | 588.9 | 625.4 | 671.1 |
| 40°    | 528.5 | 560.3 | 593.6 | 639.3 |
| 42.5°  | 499.1 | 527.7 | 561.0 | 602.9 |
| 45°    | 470.4 | 495.2 | 525.4 | 561.8 |
| 47.5°  | 440.9 | 461.9 | 489.8 | 522.3 |
| 50°    | 409.2 | 431.6 | 452.6 | 479.7 |
| 52.5°  | 379.7 | 399.1 | 416.1 | 438.6 |
| 55°    | 351.0 | 364.2 | 378.2 | 395.2 |
| 57.5°  | 320.8 | 330.9 | 341.0 | 358.8 |
| 60°    | 290.6 | 299.9 | 305.3 | 316.9 |
| 62.5°  | 261.2 | 265.0 | 272.0 | 279.0 |
| 65°    | 228.6 | 234.0 | 237.9 | 246.4 |
| 67.5°  | 199.2 | 201.5 | 205.4 | 210.8 |
| 70°    | 168.2 | 173.6 | 175.1 | 179.0 |
| 72.5°  | 141.8 | 144.1 | 145.7 | 146.5 |
| 75°    | 112.4 | 114.7 | 116.2 | 120.9 |
| 77.5°  | 88.3  | 87.6  | 90.7  | 91.4  |
| 80°    | 65.1  | 62.8  | 63.5  | 66.6  |
| 82.5°  | 42.6  | 43.4  | 42.6  | 42.6  |
| 85°    | 26.3  | 25.6  | 24.0  | 24.8  |
| 87.5°  | 11.6  | 11.6  | 10.8  | 10.8  |
| 90°    | 5.9   | 4.5   | 3.1   | 1.7   |
| 92.5°  | 7.8   | 8.1   | 8.3   | 8.6   |
| 95°    | 18.5  | 22.8  | 27.1  | 31.4  |
| 97.5°  | 68.4  | 65.6  | 62.8  | 60.0  |
| 100°   | 100.6 | 98.3  | 96.0  | 93.7  |
| 102.5° | 136.0 | 134.5 | 132.9 | 131.4 |
| 105°   | 174.3 | 173.6 | 172.8 | 172.0 |
| 107.5° | 210.3 | 210.0 | 209.6 | 209.2 |
| 110°   | 248.0 | 247.7 | 247.3 | 246.9 |

TEST NUMBER: P1013103

CATALOG NUMBER: S124DIP-B575D590UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 285.8 | 285.0 | 284.3 | 283.5 |
| 115°   | 322.3 | 322.0 | 321.6 | 321.2 |
| 117.5° | 356.4 | 355.9 | 355.4 | 354.9 |
| 120°   | 390.7 | 390.2 | 389.7 | 389.2 |
| 122.5° | 421.9 | 421.7 | 421.4 | 421.2 |
| 125°   | 453.0 | 452.5 | 452.0 | 451.5 |
| 127.5° | 481.0 | 480.9 | 480.7 | 480.6 |
| 130°   | 509.0 | 508.9 | 508.7 | 508.6 |
| 132.5° | 535.1 | 534.9 | 534.6 | 534.4 |
| 135°   | 559.7 | 559.8 | 560.0 | 560.1 |
| 137.5° | 582.9 | 582.9 | 582.9 | 582.9 |
| 140°   | 606.0 | 605.7 | 605.5 | 605.2 |
| 142.5° | 626.7 | 626.2 | 625.7 | 625.2 |
| 145°   | 646.9 | 646.6 | 646.2 | 645.8 |
| 147.5° | 664.1 | 663.3 | 662.6 | 661.8 |
| 150°   | 681.0 | 680.5 | 680.0 | 679.5 |
| 152.5° | 695.5 | 695.2 | 694.8 | 694.4 |
| 155°   | 708.5 | 708.4 | 708.2 | 708.1 |
| 157.5° | 720.1 | 720.1 | 720.1 | 720.1 |
| 160°   | 729.3 | 729.6 | 730.0 | 730.4 |
| 162.5° | 738.0 | 738.5 | 739.0 | 739.5 |
| 165°   | 745.1 | 745.7 | 746.4 | 747.0 |
| 167.5° | 751.4 | 752.0 | 752.7 | 753.3 |
| 170°   | 756.1 | 756.9 | 757.6 | 758.4 |
| 172.5° | 759.5 | 760.3 | 761.0 | 761.8 |
| 175°   | 761.8 | 762.6 | 763.3 | 764.1 |
| 177.5° | 763.1 | 764.0 | 764.9 | 765.8 |
| 180°   | 764.1 | 764.1 | 764.1 | 764.1 |

(END OF REPORT)