

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: P1013177

Luminaire Tested: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013177  
REPORT IS A COMBINATION OF REPORTS P996511 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

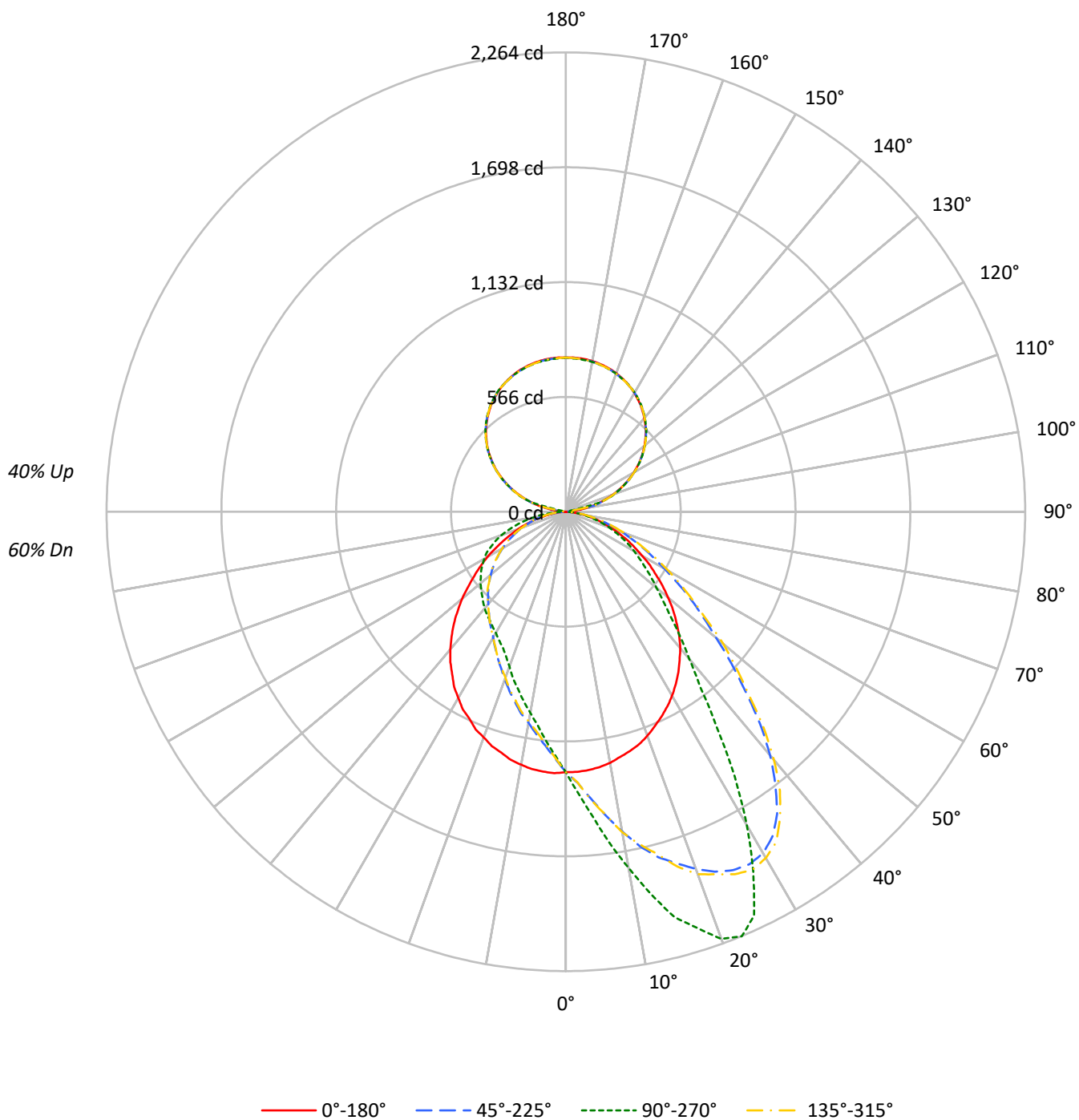
Lumens per Lamp: N/A  
Luminaire Lumens: 5894.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 51.3  
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: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013177

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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   | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 65 | 65 | 65 | 65 | 65 | 60 |
| 1   | 100 | 96  | 92  | 89  | 94  | 90  | 87  | 84  | 78 | 76 | 74 | 68 | 66 | 64 | 58 | 57 | 56 | 56 | 56 | 51 |
| 2   | 92  | 84  | 78  | 73  | 85  | 79  | 74  | 69  | 69 | 65 | 61 | 60 | 57 | 54 | 52 | 49 | 47 | 47 | 47 | 43 |
| 3   | 84  | 74  | 67  | 61  | 78  | 70  | 63  | 58  | 61 | 56 | 52 | 53 | 49 | 46 | 46 | 43 | 41 | 41 | 41 | 37 |
| 4   | 77  | 66  | 58  | 52  | 72  | 62  | 55  | 49  | 55 | 49 | 45 | 48 | 43 | 40 | 41 | 38 | 35 | 35 | 35 | 32 |
| 5   | 71  | 59  | 51  | 45  | 66  | 56  | 48  | 43  | 49 | 43 | 39 | 43 | 38 | 35 | 37 | 34 | 31 | 31 | 31 | 28 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 37  | 44 | 38 | 34 | 39 | 34 | 31 | 34 | 30 | 27 | 27 | 27 | 25 |
| 7   | 60  | 48  | 40  | 34  | 56  | 45  | 38  | 33  | 40 | 34 | 30 | 36 | 31 | 27 | 31 | 27 | 24 | 24 | 24 | 22 |
| 8   | 56  | 44  | 36  | 31  | 52  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 22 | 22 | 20 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 23 | 20 | 20 | 20 | 18 |
| 10  | 49  | 37  | 29  | 25  | 46  | 35  | 28  | 24  | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 18 | 18 | 16 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10464 | 10464 | 10464 | 10464 |
| 5°  | 10438 | 12004 | 10499 | 9020  |
| 10° | 10360 | 14006 | 10438 | 7914  |
| 15° | 10235 | 16146 | 10306 | 7081  |
| 20° | 10103 | 17508 | 10176 | 6349  |
| 25° | 9909  | 17307 | 10004 | 5809  |
| 30° | 9720  | 14305 | 9839  | 5530  |
| 35° | 9455  | 10660 | 9558  | 5361  |
| 40° | 9145  | 8030  | 9233  | 5278  |
| 45° | 8672  | 6446  | 8780  | 5166  |
| 50° | 8107  | 5430  | 8225  | 5113  |
| 55° | 7443  | 4726  | 7559  | 5054  |
| 60° | 6797  | 4162  | 6997  | 4969  |
| 65° | 6192  | 3581  | 6250  | 4762  |
| 70° | 5479  | 2947  | 5598  | 4384  |
| 75° | 4781  | 2264  | 4749  | 3726  |
| 80° | 3759  | 1487  | 3718  | 2828  |
| 85° | 2474  | 669   | 2321  | 1650  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 13530 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.9  | 2.1       |
| 10°-20°   | 385.5  | 6.5       |
| 20°-30°   | 612.4  | 10.4      |
| 30°-40°   | 680.5  | 11.5      |
| 40°-50°   | 618.8  | 10.5      |
| 50°-60°   | 505.7  | 8.6       |
| 60°-70°   | 361.0  | 6.1       |
| 70°-80°   | 198.6  | 3.4       |
| 80°-90°   | 55.2   | 0.9       |
| 90°-100°  | 25.2   | 0.4       |
| 100°-110° | 166.1  | 2.8       |
| 110°-120° | 317.2  | 5.4       |
| 120°-130° | 402.7  | 6.8       |
| 130°-140° | 430.8  | 7.3       |
| 140°-150° | 402.8  | 6.8       |
| 150°-160° | 324.8  | 5.5       |
| 160°-170° | 209.5  | 3.6       |
| 170°-180° | 72.2   | 1.2       |
| 0°-30°    | 1122.8 | 19.0      |
| 0°-40°    | 1803.2 | 30.6      |
| 0°-60°    | 2927.7 | 49.7      |
| 0°-90°    | 3542.6 | 60.1      |
| 90°-120°  | 508.5  | 8.6       |
| 90°-150°  | 1744.9 | 29.6      |
| 90°-180°  | 2351.0 | 39.9      |
| 0°-180°   | 5894.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1283 | 1283 | 1283 | 1283 | 1283 |      |
| 5°   | 1278 | 1505 | 1285 | 1131 | 1278 | 121  |
| 15°  | 1220 | 2068 | 1229 | 907  | 1220 | 344  |
| 25°  | 1114 | 2195 | 1125 | 737  | 1114 | 513  |
| 35°  | 966  | 1298 | 977  | 653  | 966  | 604  |
| 45°  | 771  | 728  | 780  | 584  | 771  | 594  |
| 55°  | 542  | 476  | 551  | 509  | 542  | 488  |
| 65°  | 338  | 306  | 341  | 407  | 338  | 334  |
| 75°  | 166  | 153  | 165  | 252  | 166  | 174  |
| 85°  | 34   | 32   | 32   | 79   | 34   | 40   |
| 90°  | 2    | 17   | 2    | 17   | 2    | 4    |
| 95°  | 31   | 16   | 31   | 16   | 31   | 39   |
| 105° | 171  | 162  | 171  | 162  | 171  | 179  |
| 115° | 319  | 322  | 319  | 322  | 319  | 314  |
| 125° | 449  | 452  | 449  | 452  | 449  | 401  |
| 135° | 557  | 561  | 557  | 561  | 557  | 429  |
| 145° | 642  | 646  | 642  | 646  | 642  | 401  |
| 155° | 704  | 704  | 704  | 704  | 704  | 325  |
| 165° | 743  | 739  | 743  | 739  | 743  | 210  |
| 175° | 760  | 755  | 760  | 755  | 760  | 72   |
| 180° | 760  | 760  | 760  | 760  | 760  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1283.2 | 1296.0 | 1301.3 | 1305.6 | 1319.4 | 1323.6 | 1324.7 | 1331.1 | 1336.4 | 1337.5 | 1337.5 |
| 5°     | 1277.9 | 1298.1 | 1314.1 | 1329.0 | 1351.3 | 1360.8 | 1372.5 | 1385.3 | 1402.3 | 1412.9 | 1418.3 |
| 7.5°   | 1269.4 | 1299.2 | 1323.6 | 1349.2 | 1380.0 | 1399.1 | 1409.8 | 1443.8 | 1467.2 | 1486.3 | 1509.7 |
| 10°    | 1256.7 | 1294.9 | 1330.0 | 1367.2 | 1410.8 | 1434.2 | 1457.6 | 1499.1 | 1532.0 | 1569.2 | 1599.0 |
| 12.5°  | 1237.5 | 1287.5 | 1330.0 | 1382.1 | 1436.3 | 1464.0 | 1491.6 | 1563.9 | 1602.2 | 1635.1 | 1688.3 |
| 15°    | 1220.5 | 1270.5 | 1331.1 | 1384.2 | 1451.2 | 1492.7 | 1533.1 | 1579.9 | 1640.5 | 1711.7 | 1762.7 |
| 17.5°  | 1201.4 | 1264.1 | 1320.4 | 1394.9 | 1469.3 | 1508.6 | 1541.6 | 1613.9 | 1698.9 | 1769.1 | 1815.9 |
| 20°    | 1174.8 | 1238.6 | 1313.0 | 1391.7 | 1479.9 | 1510.8 | 1554.3 | 1651.1 | 1727.6 | 1796.7 | 1873.3 |
| 22.5°  | 1144.0 | 1218.4 | 1297.1 | 1372.5 | 1464.0 | 1528.8 | 1576.7 | 1661.7 | 1754.2 | 1834.0 | 1920.1 |
| 25°    | 1114.2 | 1195.0 | 1264.1 | 1367.2 | 1464.0 | 1507.6 | 1561.8 | 1662.8 | 1763.8 | 1860.5 | 1948.8 |
| 27.5°  | 1082.3 | 1157.8 | 1251.3 | 1333.2 | 1442.7 | 1490.6 | 1549.0 | 1659.6 | 1767.0 | 1863.7 | 1958.3 |
| 30°    | 1047.2 | 1128.0 | 1205.6 | 1302.4 | 1408.7 | 1470.4 | 1524.6 | 1644.7 | 1754.2 | 1855.2 | 1943.5 |
| 32.5°  | 1007.9 | 1084.4 | 1167.4 | 1258.8 | 1370.4 | 1433.1 | 1501.2 | 1624.5 | 1741.5 | 1828.6 | 1896.7 |
| 35°    | 966.4  | 1044.0 | 1116.3 | 1209.9 | 1324.7 | 1387.4 | 1453.3 | 1589.4 | 1705.3 | 1776.5 | 1815.9 |
| 37.5°  | 920.7  | 994.1  | 1065.3 | 1157.8 | 1272.6 | 1339.6 | 1406.6 | 1538.4 | 1647.9 | 1707.4 | 1696.8 |
| 40°    | 877.1  | 943.0  | 1008.9 | 1096.1 | 1216.3 | 1287.5 | 1346.0 | 1478.9 | 1574.5 | 1600.1 | 1565.0 |
| 42.5°  | 827.1  | 883.5  | 947.3  | 1036.6 | 1153.5 | 1220.5 | 1293.9 | 1415.1 | 1486.3 | 1475.7 | 1416.1 |
| 45°    | 770.8  | 820.8  | 884.6  | 968.5  | 1087.6 | 1156.7 | 1218.4 | 1333.2 | 1385.3 | 1358.7 | 1250.3 |
| 47.5°  | 716.6  | 765.5  | 817.6  | 901.6  | 1017.4 | 1075.9 | 1138.6 | 1241.8 | 1271.5 | 1215.2 | 1106.8 |
| 50°    | 658.1  | 698.5  | 752.7  | 832.5  | 940.9  | 1002.6 | 1054.7 | 1137.6 | 1148.2 | 1079.1 | 966.4  |
| 52.5°  | 601.7  | 635.8  | 687.9  | 766.5  | 867.5  | 916.4  | 967.5  | 1040.8 | 1032.3 | 961.1  | 852.7  |
| 55°    | 542.2  | 574.1  | 621.9  | 694.2  | 783.6  | 830.3  | 873.9  | 938.8  | 920.7  | 847.3  | 752.7  |
| 57.5°  | 492.2  | 514.6  | 561.3  | 628.3  | 701.7  | 752.7  | 789.9  | 841.0  | 813.3  | 740.0  | 651.7  |
| 60°    | 434.8  | 462.5  | 501.8  | 556.0  | 628.3  | 662.4  | 695.3  | 729.3  | 710.2  | 640.0  | 561.3  |
| 62.5°  | 382.7  | 404.0  | 438.0  | 490.1  | 546.5  | 577.3  | 612.4  | 633.6  | 614.5  | 549.7  | 483.7  |
| 65°    | 338.1  | 355.1  | 381.7  | 424.2  | 478.4  | 503.9  | 524.1  | 544.3  | 528.4  | 467.8  | 419.9  |
| 67.5°  | 289.2  | 304.1  | 326.4  | 360.4  | 406.1  | 424.2  | 443.3  | 457.2  | 439.1  | 398.7  | 351.9  |
| 70°    | 245.6  | 256.2  | 277.5  | 303.0  | 334.9  | 351.9  | 367.9  | 381.7  | 365.7  | 331.7  | 296.6  |
| 72.5°  | 200.9  | 209.4  | 228.6  | 246.7  | 275.4  | 287.1  | 298.7  | 309.4  | 304.1  | 272.2  | 243.5  |
| 75°    | 165.9  | 169.0  | 181.8  | 196.7  | 214.8  | 227.5  | 236.0  | 242.4  | 238.1  | 212.6  | 194.6  |
| 77.5°  | 125.5  | 129.7  | 139.3  | 151.0  | 166.9  | 174.4  | 179.7  | 186.1  | 180.7  | 160.5  | 147.8  |
| 80°    | 91.4   | 92.5   | 97.8   | 108.4  | 119.1  | 120.1  | 125.5  | 134.0  | 130.8  | 116.9  | 107.4  |
| 82.5°  | 58.5   | 61.7   | 63.8   | 70.2   | 77.6   | 79.7   | 82.9   | 85.1   | 84.0   | 75.5   | 72.3   |
| 85°    | 34.0   | 34.0   | 36.1   | 40.4   | 42.5   | 45.7   | 46.8   | 47.8   | 50.0   | 44.7   | 41.5   |
| 87.5°  | 14.9   | 15.9   | 15.9   | 17.0   | 19.1   | 19.1   | 20.2   | 21.3   | 22.3   | 21.3   | 18.1   |
| 90°    | 1.7    | 3.1    | 4.5    | 5.9    | 7.3    | 8.0    | 8.5    | 9.5    | 10.5   | 11.5   | 12.5   |
| 92.5°  | 8.5    | 8.3    | 8.0    | 7.8    | 7.5    | 7.4    | 7.9    | 8.9    | 9.9    | 10.9   | 11.9   |
| 95°    | 31.3   | 27.0   | 22.7   | 18.4   | 14.1   | 11.9   | 12.0   | 12.1   | 12.2   | 12.4   | 12.5   |
| 97.5°  | 59.7   | 62.5   | 65.3   | 68.0   | 70.8   | 72.2   | 65.6   | 52.3   | 39.0   | 25.8   | 12.5   |
| 100°   | 93.2   | 95.5   | 97.7   | 100.0  | 102.3  | 103.4  | 94.7   | 77.3   | 59.8   | 42.4   | 25.0   |
| 102.5° | 130.7  | 132.2  | 133.7  | 135.2  | 136.7  | 137.5  | 138.3  | 139.8  | 141.3  | 142.9  | 144.4  |
| 105°   | 171.1  | 171.9  | 172.6  | 173.4  | 174.1  | 174.5  | 174.8  | 175.4  | 176.1  | 176.7  | 177.3  |
| 107.5° | 208.0  | 208.4  | 208.8  | 209.1  | 209.5  | 209.7  | 210.1  | 211.0  | 211.9  | 212.8  | 213.7  |
| 110°   | 245.5  | 245.9  | 246.3  | 246.6  | 247.0  | 247.2  | 247.6  | 248.4  | 249.1  | 249.9  | 250.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 281.9 | 282.7 | 283.4 | 284.2 | 284.9 | 285.3 | 285.4 | 285.7 | 286.0 | 286.2 | 286.5 |
| 115°   | 319.4 | 319.8 | 320.2 | 320.5 | 320.9 | 321.1 | 321.0 | 320.9 | 320.8 | 320.7 | 320.6 |
| 117.5° | 353.0 | 353.5 | 354.0 | 354.5 | 355.0 | 355.2 | 355.4 | 355.8 | 356.1 | 356.5 | 356.9 |
| 120°   | 387.1 | 387.6 | 388.1 | 388.6 | 389.1 | 389.3 | 389.2 | 389.1 | 389.0 | 388.9 | 388.8 |
| 122.5° | 418.9 | 419.1 | 419.4 | 419.6 | 419.9 | 420.0 | 420.1 | 420.4 | 420.7 | 420.9 | 421.2 |
| 125°   | 449.0 | 449.5 | 450.0 | 450.5 | 451.0 | 451.3 | 451.2 | 450.9 | 450.6 | 450.4 | 450.1 |
| 127.5° | 478.0 | 478.1 | 478.3 | 478.4 | 478.5 | 478.6 | 478.9 | 479.5 | 480.2 | 480.8 | 481.4 |
| 130°   | 505.8 | 505.9 | 506.1 | 506.2 | 506.3 | 506.4 | 506.6 | 507.0 | 507.3 | 507.7 | 508.1 |
| 132.5° | 531.4 | 531.7 | 531.9 | 532.2 | 532.5 | 532.6 | 532.8 | 533.3 | 533.8 | 534.3 | 534.8 |
| 135°   | 557.0 | 556.9 | 556.7 | 556.6 | 556.5 | 556.4 | 556.7 | 557.2 | 557.7 | 558.2 | 558.7 |
| 137.5° | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 580.0 | 580.7 | 581.3 | 582.0 | 582.6 |
| 140°   | 601.9 | 602.1 | 602.4 | 602.6 | 602.9 | 603.0 | 603.1 | 603.4 | 603.7 | 603.9 | 604.2 |
| 142.5° | 621.8 | 622.3 | 622.8 | 623.3 | 623.8 | 624.1 | 624.2 | 624.3 | 624.4 | 624.5 | 624.6 |
| 145°   | 642.3 | 642.7 | 643.1 | 643.4 | 643.8 | 644.0 | 644.0 | 644.0 | 644.0 | 644.0 | 644.0 |
| 147.5° | 658.2 | 659.0 | 659.7 | 660.5 | 661.2 | 661.6 | 661.5 | 661.4 | 661.3 | 661.1 | 661.0 |
| 150°   | 675.8 | 676.3 | 676.8 | 677.3 | 677.8 | 678.1 | 678.0 | 677.9 | 677.8 | 677.6 | 677.5 |
| 152.5° | 690.6 | 691.0 | 691.4 | 691.7 | 692.1 | 692.3 | 692.2 | 691.9 | 691.6 | 691.4 | 691.1 |
| 155°   | 704.2 | 704.3 | 704.5 | 704.6 | 704.7 | 704.8 | 704.6 | 704.2 | 703.9 | 703.5 | 703.1 |
| 157.5° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 715.9 | 715.4 | 714.9 | 714.4 | 713.9 |
| 160°   | 726.4 | 726.0 | 725.6 | 725.3 | 724.9 | 724.7 | 724.6 | 724.5 | 724.4 | 724.2 | 724.1 |
| 162.5° | 735.5 | 735.0 | 734.5 | 734.0 | 733.5 | 733.2 | 733.1 | 733.0 | 732.9 | 732.7 | 732.6 |
| 165°   | 742.9 | 742.3 | 741.6 | 741.0 | 740.3 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 |
| 167.5° | 749.1 | 748.5 | 747.9 | 747.2 | 746.6 | 746.3 | 746.2 | 746.1 | 746.0 | 745.8 | 745.7 |
| 170°   | 754.2 | 753.4 | 752.7 | 751.9 | 751.2 | 750.8 | 750.9 | 751.0 | 751.1 | 751.3 | 751.4 |
| 172.5° | 757.6 | 756.8 | 756.1 | 755.3 | 754.6 | 754.2 | 754.3 | 754.4 | 754.5 | 754.7 | 754.8 |
| 175°   | 759.9 | 759.1 | 758.4 | 757.6 | 756.9 | 756.5 | 756.6 | 756.7 | 756.8 | 757.0 | 757.1 |
| 177.5° | 761.6 | 760.7 | 759.8 | 758.9 | 758.0 | 757.6 | 757.7 | 758.0 | 758.3 | 758.5 | 758.8 |
| 180°   | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1340.6 | 1359.8 | 1368.3 | 1370.4 | 1382.1 | 1374.7 | 1377.9 | 1376.8 | 1385.3 | 1386.4 | 1386.4 |
| 5°     | 1438.5 | 1460.8 | 1468.2 | 1478.9 | 1494.8 | 1499.1 | 1495.9 | 1502.2 | 1513.9 | 1505.4 | 1518.2 |
| 7.5°   | 1541.6 | 1566.0 | 1583.0 | 1606.4 | 1611.8 | 1625.6 | 1634.1 | 1641.5 | 1643.6 | 1644.7 | 1646.8 |
| 10°    | 1637.3 | 1668.1 | 1691.5 | 1730.8 | 1739.3 | 1746.8 | 1784.0 | 1769.1 | 1788.2 | 1781.9 | 1784.0 |
| 12.5°  | 1714.9 | 1775.5 | 1794.6 | 1860.5 | 1866.9 | 1892.4 | 1890.3 | 1913.7 | 1917.9 | 1926.5 | 1917.9 |
| 15°    | 1816.9 | 1887.1 | 1917.9 | 1955.2 | 1976.4 | 2006.2 | 2011.5 | 2043.4 | 2056.2 | 2067.9 | 2056.2 |
| 17.5°  | 1910.5 | 1947.7 | 2026.4 | 2056.2 | 2070.0 | 2085.9 | 2126.3 | 2138.0 | 2157.2 | 2149.7 | 2171.0 |
| 20°    | 1957.3 | 2010.4 | 2093.4 | 2144.4 | 2165.7 | 2180.5 | 2214.6 | 2232.6 | 2240.1 | 2240.1 | 2242.2 |
| 22.5°  | 1998.7 | 2075.3 | 2137.0 | 2195.4 | 2214.6 | 2225.2 | 2245.4 | 2259.2 | 2262.4 | 2264.5 | 2266.7 |
| 25°    | 2036.0 | 2105.1 | 2155.0 | 2188.0 | 2195.4 | 2195.4 | 2207.1 | 2198.6 | 2184.8 | 2195.4 | 2201.8 |
| 27.5°  | 2036.0 | 2084.9 | 2107.2 | 2118.9 | 2118.9 | 2090.2 | 2073.2 | 2038.1 | 2008.3 | 1999.8 | 2018.9 |
| 30°    | 2001.9 | 2024.3 | 1993.4 | 1964.7 | 1942.4 | 1923.3 | 1856.3 | 1803.1 | 1792.5 | 1785.0 | 1813.8 |
| 32.5°  | 1923.3 | 1894.6 | 1834.0 | 1751.0 | 1718.1 | 1674.5 | 1622.4 | 1582.0 | 1557.5 | 1549.0 | 1542.6 |
| 35°    | 1784.0 | 1709.6 | 1630.9 | 1519.3 | 1495.9 | 1440.6 | 1369.4 | 1339.6 | 1299.2 | 1298.1 | 1311.9 |
| 37.5°  | 1632.0 | 1517.1 | 1432.1 | 1325.8 | 1292.8 | 1234.3 | 1167.4 | 1136.5 | 1108.9 | 1087.6 | 1113.1 |
| 40°    | 1454.4 | 1354.5 | 1224.8 | 1137.6 | 1090.8 | 1060.0 | 1003.6 | 969.6  | 956.8  | 946.2  | 962.2  |
| 42.5°  | 1288.6 | 1179.0 | 1078.0 | 988.7  | 950.5  | 915.4  | 878.2  | 845.2  | 835.6  | 834.6  | 846.3  |
| 45°    | 1123.8 | 1016.4 | 922.8  | 846.3  | 821.8  | 800.6  | 764.4  | 754.8  | 738.9  | 728.3  | 733.6  |
| 47.5°  | 991.9  | 881.4  | 803.8  | 745.3  | 724.0  | 705.9  | 682.6  | 666.6  | 652.8  | 648.5  | 654.9  |
| 50°    | 862.2  | 787.8  | 708.1  | 659.2  | 643.2  | 626.2  | 608.1  | 593.2  | 586.9  | 582.6  | 586.9  |
| 52.5°  | 758.0  | 678.3  | 624.1  | 584.7  | 568.8  | 556.0  | 543.3  | 536.9  | 528.4  | 530.5  | 534.8  |
| 55°    | 664.5  | 594.3  | 548.6  | 519.9  | 510.3  | 505.0  | 489.1  | 481.6  | 478.4  | 476.3  | 478.4  |
| 57.5°  | 576.2  | 525.2  | 491.2  | 466.7  | 454.0  | 450.8  | 438.0  | 438.0  | 434.8  | 431.6  | 432.7  |
| 60°    | 506.1  | 462.5  | 429.5  | 410.4  | 408.3  | 402.9  | 394.4  | 393.4  | 385.9  | 389.1  | 390.2  |
| 62.5°  | 434.8  | 399.7  | 377.4  | 365.7  | 358.3  | 356.2  | 350.8  | 349.8  | 346.6  | 347.7  | 345.5  |
| 65°    | 378.5  | 349.8  | 327.5  | 317.9  | 314.7  | 313.6  | 309.4  | 306.2  | 304.1  | 306.2  | 304.1  |
| 67.5°  | 322.1  | 303.0  | 286.0  | 276.4  | 272.2  | 271.1  | 267.9  | 265.8  | 266.9  | 263.7  | 265.8  |
| 70°    | 269.0  | 249.8  | 239.2  | 233.9  | 231.8  | 228.6  | 228.6  | 228.6  | 228.6  | 226.5  | 225.4  |
| 72.5°  | 226.5  | 207.3  | 199.9  | 196.7  | 194.6  | 193.5  | 190.3  | 191.4  | 190.3  | 189.2  | 193.5  |
| 75°    | 179.7  | 168.0  | 160.5  | 157.3  | 159.5  | 156.3  | 153.1  | 155.2  | 152.0  | 153.1  | 157.3  |
| 77.5°  | 136.1  | 130.8  | 126.5  | 124.4  | 122.3  | 120.1  | 120.1  | 118.0  | 118.0  | 118.0  | 118.0  |
| 80°    | 98.9   | 97.8   | 90.4   | 89.3   | 89.3   | 87.2   | 87.2   | 87.2   | 87.2   | 86.1   | 87.2   |
| 82.5°  | 65.9   | 64.9   | 62.7   | 61.7   | 59.5   | 60.6   | 60.6   | 58.5   | 58.5   | 57.4   | 58.5   |
| 85°    | 38.3   | 38.3   | 36.1   | 35.1   | 34.0   | 35.1   | 33.0   | 31.9   | 33.0   | 31.9   | 33.0   |
| 87.5°  | 18.1   | 15.9   | 17.0   | 15.9   | 13.8   | 14.9   | 12.8   | 13.8   | 12.8   | 11.7   | 13.8   |
| 90°    | 13.3   | 14.0   | 14.8   | 15.5   | 15.9   | 16.0   | 16.3   | 16.6   | 16.8   | 17.1   | 16.8   |
| 92.5°  | 12.7   | 13.4   | 14.2   | 14.9   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   |
| 95°    | 13.3   | 14.0   | 14.8   | 15.5   | 15.9   | 16.0   | 16.1   | 16.2   | 16.4   | 16.5   | 16.4   |
| 97.5°  | 13.1   | 13.7   | 14.4   | 15.0   | 15.3   | 15.4   | 15.5   | 15.6   | 15.8   | 15.9   | 15.8   |
| 100°   | 22.8   | 20.7   | 18.5   | 16.4   | 15.3   | 15.4   | 15.5   | 15.6   | 15.8   | 15.9   | 15.8   |
| 102.5° | 116.0  | 87.6   | 59.1   | 30.7   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   |
| 105°   | 178.4  | 179.6  | 180.7  | 181.8  | 182.4  | 180.1  | 175.6  | 171.1  | 166.5  | 162.0  | 166.5  |
| 107.5° | 214.3  | 214.9  | 215.6  | 216.2  | 216.5  | 216.8  | 217.3  | 217.8  | 218.3  | 218.8  | 218.3  |
| 110°   | 250.9  | 251.2  | 251.4  | 251.7  | 251.8  | 252.0  | 252.4  | 252.7  | 253.1  | 253.5  | 253.1  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 286.4 | 286.2 | 286.1 | 286.0 | 285.9 | 286.2 | 286.7 | 287.2 | 287.7 | 288.2 | 287.7 |
| 115°   | 320.8 | 321.1 | 321.3 | 321.6 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 |
| 117.5° | 356.8 | 356.7 | 356.6 | 356.5 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 |
| 120°   | 389.0 | 389.3 | 389.5 | 389.8 | 389.9 | 389.8 | 389.5 | 389.3 | 389.0 | 388.8 | 389.0 |
| 122.5° | 421.3 | 421.4 | 421.5 | 421.6 | 421.7 | 421.6 | 421.3 | 421.1 | 420.8 | 420.6 | 420.8 |
| 125°   | 450.5 | 450.9 | 451.3 | 451.7 | 451.9 | 452.0 | 452.1 | 452.2 | 452.3 | 452.4 | 452.3 |
| 127.5° | 481.3 | 481.1 | 481.0 | 480.9 | 480.8 | 480.7 | 480.6 | 480.5 | 480.4 | 480.3 | 480.4 |
| 130°   | 508.2 | 508.4 | 508.5 | 508.6 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 |
| 132.5° | 534.9 | 535.1 | 535.2 | 535.3 | 535.4 | 535.3 | 535.2 | 535.1 | 534.9 | 534.8 | 534.9 |
| 135°   | 558.9 | 559.2 | 559.4 | 559.7 | 559.8 | 559.9 | 560.2 | 560.5 | 560.7 | 561.0 | 560.7 |
| 137.5° | 582.8 | 583.1 | 583.3 | 583.6 | 583.7 | 583.6 | 583.5 | 583.4 | 583.2 | 583.1 | 583.2 |
| 140°   | 604.6 | 605.0 | 605.3 | 605.7 | 605.9 | 606.0 | 606.1 | 606.2 | 606.4 | 606.5 | 606.4 |
| 142.5° | 624.9 | 625.1 | 625.4 | 625.7 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 |
| 145°   | 644.1 | 644.2 | 644.3 | 644.4 | 644.5 | 644.6 | 644.9 | 645.2 | 645.4 | 645.7 | 645.4 |
| 147.5° | 661.1 | 661.3 | 661.4 | 661.5 | 661.6 | 661.7 | 661.8 | 661.9 | 662.1 | 662.2 | 662.1 |
| 150°   | 677.5 | 677.5 | 677.5 | 677.5 | 677.5 | 677.6 | 677.7 | 677.8 | 678.0 | 678.1 | 678.0 |
| 152.5° | 691.4 | 691.6 | 691.9 | 692.2 | 692.3 | 692.2 | 692.1 | 692.0 | 691.8 | 691.7 | 691.8 |
| 155°   | 703.6 | 704.1 | 704.6 | 705.1 | 705.3 | 705.1 | 704.7 | 704.4 | 704.0 | 703.6 | 704.0 |
| 157.5° | 714.5 | 715.1 | 715.8 | 716.4 | 716.7 | 716.4 | 715.8 | 715.1 | 714.5 | 713.9 | 714.5 |
| 160°   | 724.9 | 725.6 | 726.4 | 727.1 | 727.5 | 727.1 | 726.4 | 725.6 | 724.9 | 724.1 | 724.9 |
| 162.5° | 733.4 | 734.1 | 734.9 | 735.6 | 736.0 | 735.6 | 734.7 | 733.8 | 733.0 | 732.1 | 733.0 |
| 165°   | 741.0 | 742.0 | 743.1 | 744.1 | 744.6 | 744.0 | 742.9 | 741.7 | 740.6 | 739.4 | 740.6 |
| 167.5° | 746.8 | 748.0 | 749.1 | 750.2 | 750.8 | 750.2 | 748.9 | 747.6 | 746.4 | 745.1 | 746.4 |
| 170°   | 752.4 | 753.4 | 754.4 | 755.4 | 755.9 | 755.3 | 754.0 | 752.7 | 751.5 | 750.2 | 751.5 |
| 172.5° | 755.8 | 756.8 | 757.8 | 758.8 | 759.3 | 758.6 | 757.2 | 755.9 | 754.5 | 753.1 | 754.5 |
| 175°   | 758.2 | 759.4 | 760.5 | 761.6 | 762.2 | 761.4 | 759.9 | 758.4 | 756.9 | 755.4 | 756.9 |
| 177.5° | 759.8 | 760.8 | 761.8 | 762.8 | 763.3 | 762.5 | 761.0 | 759.5 | 758.0 | 756.5 | 758.0 |
| 180°   | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1384.2 | 1381.0 | 1376.8 | 1376.8 | 1371.5 | 1371.5 | 1363.0 | 1348.1 | 1335.3 | 1331.1 | 1333.2 |
| 5°     | 1502.2 | 1503.3 | 1496.9 | 1491.6 | 1482.0 | 1474.6 | 1460.8 | 1434.2 | 1425.7 | 1408.7 | 1397.0 |
| 7.5°   | 1637.3 | 1633.0 | 1621.3 | 1612.8 | 1610.7 | 1593.7 | 1563.9 | 1532.0 | 1506.5 | 1489.5 | 1465.0 |
| 10°    | 1789.3 | 1772.3 | 1755.3 | 1750.0 | 1737.2 | 1708.5 | 1674.5 | 1639.4 | 1604.3 | 1567.1 | 1525.6 |
| 12.5°  | 1916.9 | 1883.9 | 1882.9 | 1870.1 | 1845.6 | 1829.7 | 1789.3 | 1739.3 | 1678.7 | 1637.3 | 1590.5 |
| 15°    | 2054.0 | 2023.2 | 1997.7 | 1974.3 | 1962.6 | 1915.8 | 1881.8 | 1819.1 | 1746.8 | 1702.1 | 1670.2 |
| 17.5°  | 2151.8 | 2138.0 | 2094.4 | 2083.8 | 2067.9 | 2013.6 | 1959.4 | 1897.7 | 1835.0 | 1772.3 | 1686.2 |
| 20°    | 2230.5 | 2222.0 | 2193.3 | 2178.4 | 2152.9 | 2110.4 | 2044.5 | 1973.2 | 1900.9 | 1811.6 | 1730.8 |
| 22.5°  | 2264.5 | 2253.9 | 2230.5 | 2217.8 | 2201.8 | 2165.7 | 2109.3 | 2028.5 | 1933.9 | 1854.2 | 1768.0 |
| 25°    | 2197.6 | 2216.7 | 2210.3 | 2205.0 | 2198.6 | 2177.4 | 2134.8 | 2063.6 | 1971.1 | 1880.7 | 1773.4 |
| 27.5°  | 2046.6 | 2079.5 | 2111.4 | 2115.7 | 2126.3 | 2134.8 | 2117.8 | 2066.8 | 1989.2 | 1893.5 | 1775.5 |
| 30°    | 1843.5 | 1858.4 | 1923.3 | 1942.4 | 1957.3 | 2011.5 | 2043.4 | 2030.6 | 1971.1 | 1885.0 | 1776.5 |
| 32.5°  | 1583.0 | 1622.4 | 1688.3 | 1734.0 | 1774.4 | 1835.0 | 1917.9 | 1950.9 | 1929.6 | 1859.5 | 1752.1 |
| 35°    | 1336.4 | 1383.2 | 1459.7 | 1518.2 | 1558.6 | 1644.7 | 1742.5 | 1813.8 | 1840.3 | 1805.2 | 1709.6 |
| 37.5°  | 1134.4 | 1190.7 | 1258.8 | 1281.1 | 1327.9 | 1434.2 | 1569.2 | 1668.1 | 1733.0 | 1736.1 | 1661.7 |
| 40°    | 982.4  | 1011.1 | 1065.3 | 1099.3 | 1145.0 | 1234.3 | 1366.2 | 1496.9 | 1594.7 | 1627.7 | 1588.4 |
| 42.5°  | 853.7  | 876.0  | 916.4  | 957.9  | 999.4  | 1067.4 | 1188.6 | 1310.9 | 1442.7 | 1508.6 | 1507.6 |
| 45°    | 751.7  | 775.0  | 802.7  | 836.7  | 865.4  | 938.8  | 1034.5 | 1159.9 | 1273.7 | 1375.7 | 1401.2 |
| 47.5°  | 662.4  | 682.6  | 716.6  | 731.5  | 750.6  | 819.7  | 902.6  | 1019.6 | 1137.6 | 1254.5 | 1284.3 |
| 50°    | 596.4  | 613.4  | 636.8  | 646.4  | 667.7  | 718.7  | 786.7  | 881.4  | 1012.1 | 1119.5 | 1174.8 |
| 52.5°  | 536.9  | 549.7  | 567.7  | 575.2  | 590.1  | 628.3  | 690.0  | 764.4  | 872.9  | 983.4  | 1061.0 |
| 55°    | 485.9  | 494.4  | 507.1  | 515.6  | 526.3  | 560.3  | 606.0  | 673.0  | 766.5  | 862.2  | 937.7  |
| 57.5°  | 438.0  | 444.4  | 457.2  | 461.4  | 469.9  | 496.5  | 528.4  | 584.7  | 670.9  | 755.9  | 829.3  |
| 60°    | 393.4  | 397.6  | 405.1  | 414.6  | 421.0  | 439.1  | 468.9  | 515.6  | 584.7  | 662.4  | 721.9  |
| 62.5°  | 350.8  | 357.2  | 359.3  | 363.6  | 368.9  | 385.9  | 409.3  | 443.3  | 503.9  | 567.7  | 630.5  |
| 65°    | 307.3  | 312.6  | 316.8  | 317.9  | 323.2  | 336.0  | 357.2  | 387.0  | 426.3  | 481.6  | 540.1  |
| 67.5°  | 266.9  | 270.0  | 272.2  | 276.4  | 281.7  | 288.1  | 305.1  | 327.5  | 363.6  | 408.3  | 455.0  |
| 70°    | 229.6  | 229.6  | 232.8  | 233.9  | 240.3  | 247.7  | 255.2  | 276.4  | 308.3  | 344.5  | 376.4  |
| 72.5°  | 189.2  | 194.6  | 193.5  | 198.8  | 197.7  | 203.1  | 212.6  | 226.5  | 249.8  | 278.5  | 309.4  |
| 75°    | 154.2  | 157.3  | 157.3  | 157.3  | 159.5  | 163.7  | 169.0  | 181.8  | 199.9  | 223.3  | 241.3  |
| 77.5°  | 120.1  | 122.3  | 122.3  | 122.3  | 123.3  | 127.6  | 132.9  | 141.4  | 154.2  | 168.0  | 178.6  |
| 80°    | 86.1   | 88.2   | 88.2   | 90.4   | 90.4   | 91.4   | 96.7   | 101.0  | 107.4  | 118.0  | 128.6  |
| 82.5°  | 58.5   | 59.5   | 61.7   | 61.7   | 60.6   | 62.7   | 63.8   | 68.0   | 74.4   | 76.5   | 84.0   |
| 85°    | 31.9   | 33.0   | 34.0   | 34.0   | 35.1   | 37.2   | 36.1   | 40.4   | 40.4   | 44.7   | 46.8   |
| 87.5°  | 12.8   | 14.9   | 14.9   | 13.8   | 14.9   | 14.9   | 14.9   | 17.0   | 18.1   | 19.1   | 18.1   |
| 90°    | 16.6   | 16.3   | 16.0   | 15.9   | 15.5   | 14.8   | 14.0   | 13.3   | 12.5   | 11.5   | 10.5   |
| 92.5°  | 15.3   | 15.3   | 15.3   | 15.3   | 14.9   | 14.2   | 13.4   | 12.7   | 11.9   | 10.9   | 9.9    |
| 95°    | 16.2   | 16.1   | 16.0   | 15.9   | 15.5   | 14.8   | 14.0   | 13.3   | 12.5   | 12.4   | 12.2   |
| 97.5°  | 15.6   | 15.5   | 15.4   | 15.3   | 15.0   | 14.4   | 13.7   | 13.1   | 12.5   | 25.8   | 39.0   |
| 100°   | 15.6   | 15.5   | 15.4   | 15.3   | 16.4   | 18.5   | 20.7   | 22.8   | 25.0   | 42.4   | 59.8   |
| 102.5° | 16.5   | 16.5   | 16.5   | 16.5   | 30.7   | 59.1   | 87.6   | 116.0  | 144.4  | 142.9  | 141.3  |
| 105°   | 171.1  | 175.6  | 180.1  | 182.4  | 181.8  | 180.7  | 179.6  | 178.4  | 177.3  | 176.7  | 176.1  |
| 107.5° | 217.8  | 217.3  | 216.8  | 216.5  | 216.2  | 215.6  | 214.9  | 214.3  | 213.7  | 212.8  | 211.9  |
| 110°   | 252.7  | 252.4  | 252.0  | 251.8  | 251.7  | 251.4  | 251.2  | 250.9  | 250.7  | 249.9  | 249.1  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 287.2 | 286.7 | 286.2 | 285.9  | 286.0 | 286.1 | 286.2 | 286.4 | 286.5 | 286.2 | 286.0 |
| 115°   | 321.7 | 321.7 | 321.7 | 321.7  | 321.6 | 321.3 | 321.1 | 320.8 | 320.6 | 320.7 | 320.8 |
| 117.5° | 356.4 | 356.4 | 356.4 | 356.4  | 356.5 | 356.6 | 356.7 | 356.8 | 356.9 | 356.5 | 356.1 |
| 120°   | 389.3 | 389.5 | 389.8 | 389.9  | 389.8 | 389.5 | 389.3 | 389.0 | 388.8 | 388.9 | 389.0 |
| 122.5° | 421.1 | 421.3 | 421.6 | 421.7  | 421.6 | 421.5 | 421.4 | 421.3 | 421.2 | 420.9 | 420.7 |
| 125°   | 452.2 | 452.1 | 452.0 | 451.9  | 451.7 | 451.3 | 450.9 | 450.5 | 450.1 | 450.4 | 450.6 |
| 127.5° | 480.5 | 480.6 | 480.7 | 480.8  | 480.9 | 481.0 | 481.1 | 481.3 | 481.4 | 480.8 | 480.2 |
| 130°   | 508.7 | 508.7 | 508.7 | 508.7  | 508.6 | 508.5 | 508.4 | 508.2 | 508.1 | 507.7 | 507.3 |
| 132.5° | 535.1 | 535.2 | 535.3 | 535.4  | 535.3 | 535.2 | 535.1 | 534.9 | 534.8 | 534.3 | 533.8 |
| 135°   | 560.5 | 560.2 | 559.9 | 559.8  | 559.7 | 559.4 | 559.2 | 558.9 | 558.7 | 558.2 | 557.7 |
| 137.5° | 583.4 | 583.5 | 583.6 | 583.7  | 583.6 | 583.3 | 583.1 | 582.8 | 582.6 | 582.0 | 581.3 |
| 140°   | 606.2 | 606.1 | 606.0 | 605.9  | 605.7 | 605.3 | 605.0 | 604.6 | 604.2 | 603.9 | 603.7 |
| 142.5° | 625.8 | 625.8 | 625.8 | 625.8  | 625.7 | 625.4 | 625.1 | 624.9 | 624.6 | 624.5 | 624.4 |
| 145°   | 645.2 | 644.9 | 644.6 | 644.5  | 644.4 | 644.3 | 644.2 | 644.1 | 644.0 | 644.0 | 644.0 |
| 147.5° | 661.9 | 661.8 | 661.7 | 661.6  | 661.5 | 661.4 | 661.3 | 661.1 | 661.0 | 661.1 | 661.3 |
| 150°   | 677.8 | 677.7 | 677.6 | 677.5  | 677.5 | 677.5 | 677.5 | 677.5 | 677.5 | 677.6 | 677.8 |
| 152.5° | 692.0 | 692.1 | 692.2 | 692.3  | 692.2 | 691.9 | 691.6 | 691.4 | 691.1 | 691.4 | 691.6 |
| 155°   | 704.4 | 704.7 | 705.1 | 705.3  | 705.1 | 704.6 | 704.1 | 703.6 | 703.1 | 703.5 | 703.9 |
| 157.5° | 715.1 | 715.8 | 716.4 | 716.7  | 716.4 | 715.8 | 715.1 | 714.5 | 713.9 | 714.4 | 714.9 |
| 160°   | 725.6 | 726.4 | 727.1 | 727.5  | 727.1 | 726.4 | 725.6 | 724.9 | 724.1 | 724.2 | 724.4 |
| 162.5° | 733.8 | 734.7 | 735.6 | 736.0  | 735.6 | 734.9 | 734.1 | 733.4 | 732.6 | 732.7 | 732.9 |
| 165°   | 741.7 | 742.9 | 744.0 | 744.6  | 744.1 | 743.1 | 742.0 | 741.0 | 740.0 | 740.0 | 740.0 |
| 167.5° | 747.6 | 748.9 | 750.2 | 750.8  | 750.2 | 749.1 | 748.0 | 746.8 | 745.7 | 745.8 | 746.0 |
| 170°   | 752.7 | 754.0 | 755.3 | 755.9  | 755.4 | 754.4 | 753.4 | 752.4 | 751.4 | 751.3 | 751.1 |
| 172.5° | 755.9 | 757.2 | 758.6 | 759.3  | 758.8 | 757.8 | 756.8 | 755.8 | 754.8 | 754.7 | 754.5 |
| 175°   | 758.4 | 759.9 | 761.4 | 762.2  | 761.6 | 760.5 | 759.4 | 758.2 | 757.1 | 757.0 | 756.8 |
| 177.5° | 759.5 | 761.0 | 762.5 | 763.3  | 762.8 | 761.8 | 760.8 | 759.8 | 758.8 | 758.5 | 758.3 |
| 180°   | 759.9 | 759.9 | 759.9 | 759.9  | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1323.6 | 1319.4 | 1316.2 | 1316.2 | 1306.6 | 1297.1 | 1291.7 | 1289.6 | 1287.5 | 1279.0 | 1267.3 |
| 5°     | 1377.9 | 1364.0 | 1354.5 | 1344.9 | 1329.0 | 1311.9 | 1294.9 | 1285.4 | 1271.5 | 1252.4 | 1238.6 |
| 7.5°   | 1438.5 | 1405.5 | 1394.9 | 1383.2 | 1351.3 | 1322.6 | 1299.2 | 1279.0 | 1256.7 | 1232.2 | 1207.8 |
| 10°    | 1489.5 | 1454.4 | 1431.0 | 1410.8 | 1369.4 | 1331.1 | 1296.0 | 1266.2 | 1237.5 | 1205.6 | 1175.9 |
| 12.5°  | 1538.4 | 1488.4 | 1464.0 | 1434.2 | 1390.6 | 1335.3 | 1289.6 | 1252.4 | 1209.9 | 1176.9 | 1140.8 |
| 15°    | 1606.4 | 1522.4 | 1482.0 | 1462.9 | 1404.4 | 1339.6 | 1284.3 | 1229.0 | 1193.9 | 1144.0 | 1112.1 |
| 17.5°  | 1617.1 | 1549.0 | 1522.4 | 1473.5 | 1403.4 | 1330.0 | 1266.2 | 1210.9 | 1157.8 | 1113.1 | 1071.7 |
| 20°    | 1654.3 | 1565.0 | 1522.4 | 1491.6 | 1399.1 | 1324.7 | 1254.5 | 1183.3 | 1132.3 | 1084.4 | 1037.6 |
| 22.5°  | 1677.7 | 1576.7 | 1532.0 | 1483.1 | 1394.9 | 1305.6 | 1222.6 | 1161.0 | 1098.2 | 1049.3 | 1012.1 |
| 25°    | 1671.3 | 1570.3 | 1520.3 | 1474.6 | 1367.2 | 1277.9 | 1203.5 | 1124.8 | 1066.4 | 1013.2 | 964.3  |
| 27.5°  | 1668.1 | 1554.3 | 1501.2 | 1450.2 | 1349.2 | 1255.6 | 1162.0 | 1098.2 | 1033.4 | 971.7  | 935.6  |
| 30°    | 1659.6 | 1534.1 | 1472.5 | 1417.2 | 1311.9 | 1214.1 | 1134.4 | 1060.0 | 995.1  | 938.8  | 890.9  |
| 32.5°  | 1630.9 | 1500.1 | 1440.6 | 1381.0 | 1271.5 | 1173.7 | 1092.9 | 1023.8 | 959.0  | 900.5  | 854.8  |
| 35°    | 1592.6 | 1459.7 | 1394.9 | 1332.1 | 1222.6 | 1123.8 | 1049.3 | 977.0  | 916.4  | 860.1  | 816.5  |
| 37.5°  | 1554.3 | 1412.9 | 1352.3 | 1280.0 | 1179.0 | 1075.9 | 999.4  | 934.5  | 878.2  | 819.7  | 771.9  |
| 40°    | 1499.1 | 1357.7 | 1290.7 | 1229.0 | 1111.0 | 1014.3 | 944.1  | 885.6  | 830.3  | 775.0  | 734.6  |
| 42.5°  | 1423.6 | 1297.1 | 1228.0 | 1159.9 | 1049.3 | 953.7  | 885.6  | 833.5  | 781.4  | 735.7  | 691.1  |
| 45°    | 1347.0 | 1223.7 | 1162.0 | 1101.4 | 981.3  | 890.9  | 828.2  | 780.4  | 736.8  | 686.8  | 650.7  |
| 47.5°  | 1254.5 | 1150.3 | 1088.7 | 1029.1 | 915.4  | 825.0  | 767.6  | 723.0  | 682.6  | 641.1  | 607.1  |
| 50°    | 1159.9 | 1069.5 | 1013.2 | 951.5  | 843.1  | 761.2  | 704.9  | 667.7  | 634.7  | 595.4  | 567.7  |
| 52.5°  | 1057.8 | 979.2  | 931.3  | 871.8  | 776.1  | 700.6  | 643.2  | 606.0  | 578.4  | 549.7  | 525.2  |
| 55°    | 949.4  | 892.0  | 841.0  | 793.1  | 702.8  | 634.7  | 583.7  | 550.7  | 531.6  | 505.0  | 483.7  |
| 57.5°  | 851.6  | 796.3  | 765.5  | 711.3  | 632.6  | 565.6  | 525.2  | 497.6  | 475.2  | 459.3  | 442.3  |
| 60°    | 749.5  | 704.9  | 670.9  | 631.5  | 562.4  | 506.1  | 463.5  | 447.6  | 424.2  | 412.5  | 405.1  |
| 62.5°  | 651.7  | 619.8  | 587.9  | 558.2  | 496.5  | 443.3  | 411.4  | 391.2  | 377.4  | 365.7  | 359.3  |
| 65°    | 559.2  | 529.5  | 507.1  | 480.5  | 429.5  | 387.0  | 357.2  | 341.3  | 327.5  | 324.3  | 316.8  |
| 67.5°  | 468.9  | 456.1  | 431.6  | 410.4  | 366.8  | 333.8  | 311.5  | 291.3  | 283.9  | 280.7  | 274.3  |
| 70°    | 392.3  | 377.4  | 358.3  | 340.2  | 307.3  | 278.5  | 258.3  | 250.9  | 240.3  | 239.2  | 231.8  |
| 72.5°  | 323.2  | 305.1  | 291.3  | 277.5  | 253.0  | 227.5  | 216.9  | 206.3  | 200.9  | 196.7  | 193.5  |
| 75°    | 256.2  | 243.5  | 233.9  | 222.2  | 200.9  | 183.9  | 169.0  | 164.8  | 161.6  | 160.5  | 158.4  |
| 77.5°  | 191.4  | 182.9  | 178.6  | 166.9  | 152.0  | 137.1  | 130.8  | 124.4  | 124.4  | 122.3  | 123.3  |
| 80°    | 136.1  | 130.8  | 125.5  | 119.1  | 106.3  | 99.9   | 94.6   | 90.4   | 88.2   | 87.2   | 88.2   |
| 82.5°  | 86.1   | 82.9   | 81.9   | 77.6   | 69.1   | 65.9   | 61.7   | 58.5   | 58.5   | 58.5   | 58.5   |
| 85°    | 47.8   | 47.8   | 47.8   | 41.5   | 38.3   | 35.1   | 33.0   | 31.9   | 31.9   | 31.9   | 33.0   |
| 87.5°  | 20.2   | 20.2   | 17.0   | 17.0   | 15.9   | 13.8   | 12.8   | 12.8   | 13.8   | 13.8   | 14.9   |
| 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    | 8.0    | 8.3    | 8.5    | 8.3    | 8.0    | 7.8    |
| 95°    | 12.1   | 12.0   | 11.9   | 14.1   | 18.4   | 22.7   | 27.0   | 31.3   | 27.0   | 22.7   | 18.4   |
| 97.5°  | 52.3   | 65.6   | 72.2   | 70.8   | 68.0   | 65.3   | 62.5   | 59.7   | 62.5   | 65.3   | 68.0   |
| 100°   | 77.3   | 94.7   | 103.4  | 102.3  | 100.0  | 97.7   | 95.5   | 93.2   | 95.5   | 97.7   | 100.0  |
| 102.5° | 139.8  | 138.3  | 137.5  | 136.7  | 135.2  | 133.7  | 132.2  | 130.7  | 132.2  | 133.7  | 135.2  |
| 105°   | 175.4  | 174.8  | 174.5  | 174.1  | 173.4  | 172.6  | 171.9  | 171.1  | 171.9  | 172.6  | 173.4  |
| 107.5° | 211.0  | 210.1  | 209.7  | 209.5  | 209.1  | 208.8  | 208.4  | 208.0  | 208.4  | 208.8  | 209.1  |
| 110°   | 248.4  | 247.6  | 247.2  | 247.0  | 246.6  | 246.3  | 245.9  | 245.5  | 245.9  | 246.3  | 246.6  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 285.7 | 285.4 | 285.3  | 284.9 | 284.2 | 283.4 | 282.7 | 281.9 | 282.7 | 283.4 | 284.2 |
| 115°   | 320.9 | 321.0 | 321.1  | 320.9 | 320.5 | 320.2 | 319.8 | 319.4 | 319.8 | 320.2 | 320.5 |
| 117.5° | 355.8 | 355.4 | 355.2  | 355.0 | 354.5 | 354.0 | 353.5 | 353.0 | 353.5 | 354.0 | 354.5 |
| 120°   | 389.1 | 389.2 | 389.3  | 389.1 | 388.6 | 388.1 | 387.6 | 387.1 | 387.6 | 388.1 | 388.6 |
| 122.5° | 420.4 | 420.1 | 420.0  | 419.9 | 419.6 | 419.4 | 419.1 | 418.9 | 419.1 | 419.4 | 419.6 |
| 125°   | 450.9 | 451.2 | 451.3  | 451.0 | 450.5 | 450.0 | 449.5 | 449.0 | 449.5 | 450.0 | 450.5 |
| 127.5° | 479.5 | 478.9 | 478.6  | 478.5 | 478.4 | 478.3 | 478.1 | 478.0 | 478.1 | 478.3 | 478.4 |
| 130°   | 507.0 | 506.6 | 506.4  | 506.3 | 506.2 | 506.1 | 505.9 | 505.8 | 505.9 | 506.1 | 506.2 |
| 132.5° | 533.3 | 532.8 | 532.6  | 532.5 | 532.2 | 531.9 | 531.7 | 531.4 | 531.7 | 531.9 | 532.2 |
| 135°   | 557.2 | 556.7 | 556.4  | 556.5 | 556.6 | 556.7 | 556.9 | 557.0 | 556.9 | 556.7 | 556.6 |
| 137.5° | 580.7 | 580.0 | 579.7  | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 |
| 140°   | 603.4 | 603.1 | 603.0  | 602.9 | 602.6 | 602.4 | 602.1 | 601.9 | 602.1 | 602.4 | 602.6 |
| 142.5° | 624.3 | 624.2 | 624.1  | 623.8 | 623.3 | 622.8 | 622.3 | 621.8 | 622.3 | 622.8 | 623.3 |
| 145°   | 644.0 | 644.0 | 644.0  | 643.8 | 643.4 | 643.1 | 642.7 | 642.3 | 642.7 | 643.1 | 643.4 |
| 147.5° | 661.4 | 661.5 | 661.6  | 661.2 | 660.5 | 659.7 | 659.0 | 658.2 | 659.0 | 659.7 | 660.5 |
| 150°   | 677.9 | 678.0 | 678.1  | 677.8 | 677.3 | 676.8 | 676.3 | 675.8 | 676.3 | 676.8 | 677.3 |
| 152.5° | 691.9 | 692.2 | 692.3  | 692.1 | 691.7 | 691.4 | 691.0 | 690.6 | 691.0 | 691.4 | 691.7 |
| 155°   | 704.2 | 704.6 | 704.8  | 704.7 | 704.6 | 704.5 | 704.3 | 704.2 | 704.3 | 704.5 | 704.6 |
| 157.5° | 715.4 | 715.9 | 716.1  | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |
| 160°   | 724.5 | 724.6 | 724.7  | 724.9 | 725.3 | 725.6 | 726.0 | 726.4 | 726.0 | 725.6 | 725.3 |
| 162.5° | 733.0 | 733.1 | 733.2  | 733.5 | 734.0 | 734.5 | 735.0 | 735.5 | 735.0 | 734.5 | 734.0 |
| 165°   | 740.0 | 740.0 | 740.0  | 740.3 | 741.0 | 741.6 | 742.3 | 742.9 | 742.3 | 741.6 | 741.0 |
| 167.5° | 746.1 | 746.2 | 746.3  | 746.6 | 747.2 | 747.9 | 748.5 | 749.1 | 748.5 | 747.9 | 747.2 |
| 170°   | 751.0 | 750.9 | 750.8  | 751.2 | 751.9 | 752.7 | 753.4 | 754.2 | 753.4 | 752.7 | 751.9 |
| 172.5° | 754.4 | 754.3 | 754.2  | 754.6 | 755.3 | 756.1 | 756.8 | 757.6 | 756.8 | 756.1 | 755.3 |
| 175°   | 756.7 | 756.6 | 756.5  | 756.9 | 757.6 | 758.4 | 759.1 | 759.9 | 759.1 | 758.4 | 757.6 |
| 177.5° | 758.0 | 757.7 | 757.6  | 758.0 | 758.9 | 759.8 | 760.7 | 761.6 | 760.7 | 759.8 | 758.9 |
| 180°   | 759.9 | 759.9 | 759.9  | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1264.1 | 1259.8 | 1262.0 | 1251.3 | 1241.8 | 1228.0 | 1216.3 | 1214.1 | 1212.0 | 1218.4 | 1214.1 |
| 5°     | 1228.0 | 1222.6 | 1217.3 | 1204.6 | 1185.4 | 1173.7 | 1156.7 | 1155.7 | 1149.3 | 1139.7 | 1141.8 |
| 7.5°   | 1188.6 | 1185.4 | 1178.0 | 1157.8 | 1140.8 | 1120.6 | 1106.8 | 1095.1 | 1089.7 | 1081.2 | 1078.0 |
| 10°    | 1156.7 | 1145.0 | 1138.6 | 1116.3 | 1096.1 | 1074.9 | 1056.8 | 1048.3 | 1038.7 | 1031.3 | 1026.0 |
| 12.5°  | 1113.1 | 1109.9 | 1091.9 | 1073.8 | 1056.8 | 1032.3 | 1018.5 | 994.1  | 981.3  | 987.7  | 985.6  |
| 15°    | 1084.4 | 1069.5 | 1065.3 | 1039.8 | 1011.1 | 995.1  | 969.6  | 953.7  | 948.3  | 938.8  | 927.1  |
| 17.5°  | 1046.2 | 1036.6 | 1021.7 | 998.3  | 965.4  | 943.0  | 925.0  | 910.1  | 903.7  | 890.9  | 881.4  |
| 20°    | 1010.0 | 994.1  | 982.4  | 961.1  | 929.2  | 900.5  | 878.2  | 868.6  | 852.7  | 842.0  | 836.7  |
| 22.5°  | 977.0  | 965.4  | 948.3  | 916.4  | 888.8  | 861.2  | 834.6  | 820.8  | 805.9  | 799.5  | 791.0  |
| 25°    | 936.6  | 917.5  | 905.8  | 870.7  | 841.0  | 818.6  | 794.2  | 776.1  | 767.6  | 757.0  | 754.8  |
| 27.5°  | 897.3  | 879.2  | 865.4  | 834.6  | 798.4  | 769.7  | 754.8  | 742.1  | 727.2  | 727.2  | 721.9  |
| 30°    | 858.0  | 845.2  | 824.0  | 794.2  | 760.2  | 732.5  | 715.5  | 703.8  | 698.5  | 694.2  | 693.2  |
| 32.5°  | 818.6  | 801.6  | 788.9  | 748.5  | 723.0  | 697.4  | 684.7  | 675.1  | 668.7  | 667.7  | 668.7  |
| 35°    | 778.2  | 759.1  | 746.3  | 710.2  | 684.7  | 661.3  | 656.0  | 647.5  | 644.3  | 643.2  | 648.5  |
| 37.5°  | 735.7  | 720.8  | 704.9  | 675.1  | 646.4  | 632.6  | 621.9  | 618.8  | 617.7  | 624.1  | 626.2  |
| 40°    | 696.4  | 683.6  | 668.7  | 636.8  | 615.6  | 600.7  | 595.4  | 592.2  | 596.4  | 602.8  | 606.0  |
| 42.5°  | 659.2  | 641.1  | 629.4  | 600.7  | 581.5  | 573.0  | 566.7  | 566.7  | 570.9  | 578.4  | 583.7  |
| 45°    | 619.8  | 606.0  | 594.3  | 568.8  | 551.8  | 542.2  | 541.1  | 542.2  | 547.5  | 552.8  | 559.2  |
| 47.5°  | 581.5  | 567.7  | 555.0  | 533.7  | 518.8  | 513.5  | 512.4  | 513.5  | 522.0  | 529.5  | 536.9  |
| 50°    | 546.5  | 531.6  | 519.9  | 499.7  | 488.0  | 481.6  | 482.7  | 488.0  | 494.4  | 505.0  | 514.6  |
| 52.5°  | 505.0  | 494.4  | 483.7  | 465.7  | 455.0  | 450.8  | 454.0  | 458.2  | 469.9  | 477.4  | 489.1  |
| 55°    | 464.6  | 455.0  | 446.5  | 432.7  | 424.2  | 421.0  | 423.1  | 429.5  | 439.1  | 451.8  | 465.7  |
| 57.5°  | 427.4  | 416.8  | 408.3  | 398.7  | 389.1  | 390.2  | 391.2  | 399.7  | 411.4  | 423.1  | 439.1  |
| 60°    | 385.9  | 379.5  | 372.1  | 360.4  | 356.2  | 356.2  | 359.3  | 368.9  | 379.5  | 398.7  | 412.5  |
| 62.5°  | 348.7  | 340.2  | 334.9  | 327.5  | 321.1  | 322.1  | 329.6  | 338.1  | 350.8  | 366.8  | 384.9  |
| 65°    | 310.4  | 300.9  | 296.6  | 290.2  | 288.1  | 289.2  | 294.5  | 307.3  | 321.1  | 334.9  | 351.9  |
| 67.5°  | 267.9  | 264.7  | 260.5  | 254.1  | 256.2  | 257.3  | 262.6  | 273.2  | 288.1  | 301.9  | 321.1  |
| 70°    | 231.8  | 225.4  | 224.3  | 219.0  | 219.0  | 222.2  | 232.8  | 240.3  | 254.1  | 269.0  | 289.2  |
| 72.5°  | 193.5  | 188.2  | 188.2  | 183.9  | 187.1  | 190.3  | 195.6  | 206.3  | 219.0  | 233.9  | 250.9  |
| 75°    | 154.2  | 152.0  | 154.2  | 152.0  | 152.0  | 157.3  | 163.7  | 172.2  | 186.1  | 202.0  | 215.8  |
| 77.5°  | 119.1  | 119.1  | 118.0  | 121.2  | 121.2  | 124.4  | 132.9  | 141.4  | 152.0  | 164.8  | 179.7  |
| 80°    | 87.2   | 87.2   | 87.2   | 90.4   | 93.6   | 93.6   | 98.9   | 109.5  | 119.1  | 127.6  | 141.4  |
| 82.5°  | 59.5   | 59.5   | 59.5   | 61.7   | 65.9   | 65.9   | 72.3   | 78.7   | 89.3   | 96.7   | 103.1  |
| 85°    | 36.1   | 36.1   | 35.1   | 37.2   | 38.3   | 41.5   | 46.8   | 51.0   | 56.3   | 62.7   | 69.1   |
| 87.5°  | 15.9   | 15.9   | 17.0   | 18.1   | 19.1   | 21.3   | 23.4   | 25.5   | 30.8   | 33.0   | 36.1   |
| 90°    | 7.3    | 8.0    | 8.5    | 9.5    | 10.5   | 11.5   | 12.5   | 13.3   | 14.0   | 14.8   | 15.5   |
| 92.5°  | 7.5    | 7.4    | 7.9    | 8.9    | 9.9    | 10.9   | 11.9   | 12.7   | 13.4   | 14.2   | 14.9   |
| 95°    | 14.1   | 11.9   | 12.0   | 12.1   | 12.2   | 12.4   | 12.5   | 13.3   | 14.0   | 14.8   | 15.5   |
| 97.5°  | 70.8   | 72.2   | 65.6   | 52.3   | 39.0   | 25.8   | 12.5   | 13.1   | 13.7   | 14.4   | 15.0   |
| 100°   | 102.3  | 103.4  | 94.7   | 77.3   | 59.8   | 42.4   | 25.0   | 22.8   | 20.7   | 18.5   | 16.4   |
| 102.5° | 136.7  | 137.5  | 138.3  | 139.8  | 141.3  | 142.9  | 144.4  | 116.0  | 87.6   | 59.1   | 30.7   |
| 105°   | 174.1  | 174.5  | 174.8  | 175.4  | 176.1  | 176.7  | 177.3  | 178.4  | 179.6  | 180.7  | 181.8  |
| 107.5° | 209.5  | 209.7  | 210.1  | 211.0  | 211.9  | 212.8  | 213.7  | 214.3  | 214.9  | 215.6  | 216.2  |
| 110°   | 247.0  | 247.2  | 247.6  | 248.4  | 249.1  | 249.9  | 250.7  | 250.9  | 251.2  | 251.4  | 251.7  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 284.9 | 285.3  | 285.4 | 285.7 | 286.0 | 286.2 | 286.5 | 286.4 | 286.2 | 286.1 | 286.0 |
| 115°   | 320.9 | 321.1  | 321.0 | 320.9 | 320.8 | 320.7 | 320.6 | 320.8 | 321.1 | 321.3 | 321.6 |
| 117.5° | 355.0 | 355.2  | 355.4 | 355.8 | 356.1 | 356.5 | 356.9 | 356.8 | 356.7 | 356.6 | 356.5 |
| 120°   | 389.1 | 389.3  | 389.2 | 389.1 | 389.0 | 388.9 | 388.8 | 389.0 | 389.3 | 389.5 | 389.8 |
| 122.5° | 419.9 | 420.0  | 420.1 | 420.4 | 420.7 | 420.9 | 421.2 | 421.3 | 421.4 | 421.5 | 421.6 |
| 125°   | 451.0 | 451.3  | 451.2 | 450.9 | 450.6 | 450.4 | 450.1 | 450.5 | 450.9 | 451.3 | 451.7 |
| 127.5° | 478.5 | 478.6  | 478.9 | 479.5 | 480.2 | 480.8 | 481.4 | 481.3 | 481.1 | 481.0 | 480.9 |
| 130°   | 506.3 | 506.4  | 506.6 | 507.0 | 507.3 | 507.7 | 508.1 | 508.2 | 508.4 | 508.5 | 508.6 |
| 132.5° | 532.5 | 532.6  | 532.8 | 533.3 | 533.8 | 534.3 | 534.8 | 534.9 | 535.1 | 535.2 | 535.3 |
| 135°   | 556.5 | 556.4  | 556.7 | 557.2 | 557.7 | 558.2 | 558.7 | 558.9 | 559.2 | 559.4 | 559.7 |
| 137.5° | 579.7 | 579.7  | 580.0 | 580.7 | 581.3 | 582.0 | 582.6 | 582.8 | 583.1 | 583.3 | 583.6 |
| 140°   | 602.9 | 603.0  | 603.1 | 603.4 | 603.7 | 603.9 | 604.2 | 604.6 | 605.0 | 605.3 | 605.7 |
| 142.5° | 623.8 | 624.1  | 624.2 | 624.3 | 624.4 | 624.5 | 624.6 | 624.9 | 625.1 | 625.4 | 625.7 |
| 145°   | 643.8 | 644.0  | 644.0 | 644.0 | 644.0 | 644.0 | 644.0 | 644.1 | 644.2 | 644.3 | 644.4 |
| 147.5° | 661.2 | 661.6  | 661.5 | 661.4 | 661.3 | 661.1 | 661.0 | 661.1 | 661.3 | 661.4 | 661.5 |
| 150°   | 677.8 | 678.1  | 678.0 | 677.9 | 677.8 | 677.6 | 677.5 | 677.5 | 677.5 | 677.5 | 677.5 |
| 152.5° | 692.1 | 692.3  | 692.2 | 691.9 | 691.6 | 691.4 | 691.1 | 691.4 | 691.6 | 691.9 | 692.2 |
| 155°   | 704.7 | 704.8  | 704.6 | 704.2 | 703.9 | 703.5 | 703.1 | 703.6 | 704.1 | 704.6 | 705.1 |
| 157.5° | 716.1 | 716.1  | 715.9 | 715.4 | 714.9 | 714.4 | 713.9 | 714.5 | 715.1 | 715.8 | 716.4 |
| 160°   | 724.9 | 724.7  | 724.6 | 724.5 | 724.4 | 724.2 | 724.1 | 724.9 | 725.6 | 726.4 | 727.1 |
| 162.5° | 733.5 | 733.2  | 733.1 | 733.0 | 732.9 | 732.7 | 732.6 | 733.4 | 734.1 | 734.9 | 735.6 |
| 165°   | 740.3 | 740.0  | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 741.0 | 742.0 | 743.1 | 744.1 |
| 167.5° | 746.6 | 746.3  | 746.2 | 746.1 | 746.0 | 745.8 | 745.7 | 746.8 | 748.0 | 749.1 | 750.2 |
| 170°   | 751.2 | 750.8  | 750.9 | 751.0 | 751.1 | 751.3 | 751.4 | 752.4 | 753.4 | 754.4 | 755.4 |
| 172.5° | 754.6 | 754.2  | 754.3 | 754.4 | 754.5 | 754.7 | 754.8 | 755.8 | 756.8 | 757.8 | 758.8 |
| 175°   | 756.9 | 756.5  | 756.6 | 756.7 | 756.8 | 757.0 | 757.1 | 758.2 | 759.4 | 760.5 | 761.6 |
| 177.5° | 758.0 | 757.6  | 757.7 | 758.0 | 758.3 | 758.5 | 758.8 | 759.8 | 760.8 | 761.8 | 762.8 |
| 180°   | 759.9 | 759.9  | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1210.9 | 1209.9 | 1204.6 | 1206.7 | 1200.3 | 1202.4 | 1205.6 | 1206.7 | 1210.9 | 1207.8 | 1206.7 |
| 5°     | 1136.5 | 1134.4 | 1131.2 | 1128.0 | 1127.0 | 1131.2 | 1123.8 | 1125.9 | 1128.0 | 1131.2 | 1135.5 |
| 7.5°   | 1075.9 | 1074.9 | 1071.7 | 1066.4 | 1064.2 | 1062.1 | 1063.2 | 1070.6 | 1069.5 | 1068.5 | 1075.9 |
| 10°    | 1020.6 | 1021.7 | 1015.3 | 1014.3 | 1007.9 | 1006.8 | 1007.9 | 1010.0 | 1013.2 | 1017.4 | 1018.5 |
| 12.5°  | 963.2  | 977.0  | 965.4  | 961.1  | 951.5  | 956.8  | 959.0  | 949.4  | 954.7  | 957.9  | 973.9  |
| 15°    | 927.1  | 920.7  | 913.3  | 913.3  | 909.0  | 906.9  | 901.6  | 909.0  | 913.3  | 919.6  | 917.5  |
| 17.5°  | 877.1  | 866.5  | 862.2  | 858.0  | 859.0  | 863.3  | 851.6  | 868.6  | 868.6  | 871.8  | 866.5  |
| 20°    | 833.5  | 825.0  | 819.7  | 817.6  | 814.4  | 812.3  | 811.2  | 815.4  | 821.8  | 824.0  | 829.3  |
| 22.5°  | 787.8  | 787.8  | 779.3  | 776.1  | 774.0  | 770.8  | 776.1  | 772.9  | 777.2  | 781.4  | 789.9  |
| 25°    | 749.5  | 749.5  | 746.3  | 742.1  | 738.9  | 736.8  | 740.0  | 738.9  | 742.1  | 747.4  | 749.5  |
| 27.5°  | 718.7  | 715.5  | 714.4  | 713.4  | 712.3  | 713.4  | 712.3  | 715.5  | 718.7  | 719.8  | 717.6  |
| 30°    | 692.1  | 688.9  | 690.0  | 690.0  | 691.1  | 690.0  | 688.9  | 692.1  | 693.2  | 691.1  | 692.1  |
| 32.5°  | 667.7  | 667.7  | 669.8  | 670.9  | 670.9  | 671.9  | 673.0  | 670.9  | 671.9  | 668.7  | 669.8  |
| 35°    | 647.5  | 649.6  | 651.7  | 652.8  | 653.8  | 652.8  | 654.9  | 653.8  | 651.7  | 649.6  | 648.5  |
| 37.5°  | 627.3  | 629.4  | 633.6  | 634.7  | 637.9  | 639.0  | 636.8  | 636.8  | 635.8  | 631.5  | 629.4  |
| 40°    | 606.0  | 608.1  | 613.4  | 616.6  | 618.8  | 621.9  | 619.8  | 619.8  | 615.6  | 611.3  | 608.1  |
| 42.5°  | 585.8  | 590.1  | 595.4  | 598.6  | 602.8  | 602.8  | 602.8  | 600.7  | 595.4  | 591.1  | 587.9  |
| 45°    | 565.6  | 566.7  | 574.1  | 579.4  | 583.7  | 583.7  | 583.7  | 580.5  | 577.3  | 568.8  | 564.5  |
| 47.5°  | 543.3  | 546.5  | 555.0  | 560.3  | 564.5  | 565.6  | 565.6  | 562.4  | 556.0  | 548.6  | 543.3  |
| 50°    | 518.8  | 524.1  | 533.7  | 541.1  | 546.5  | 548.6  | 545.4  | 543.3  | 535.8  | 527.3  | 520.9  |
| 52.5°  | 495.4  | 501.8  | 513.5  | 519.9  | 527.3  | 528.4  | 527.3  | 524.1  | 515.6  | 503.9  | 498.6  |
| 55°    | 472.0  | 477.4  | 490.1  | 500.7  | 507.1  | 509.3  | 507.1  | 501.8  | 491.2  | 479.5  | 474.2  |
| 57.5°  | 446.5  | 454.0  | 467.8  | 478.4  | 485.9  | 486.9  | 484.8  | 479.5  | 471.0  | 456.1  | 448.7  |
| 60°    | 419.9  | 429.5  | 443.3  | 454.0  | 463.5  | 464.6  | 462.5  | 455.0  | 444.4  | 429.5  | 423.1  |
| 62.5°  | 393.4  | 400.8  | 416.8  | 428.5  | 435.9  | 441.2  | 437.0  | 429.5  | 418.9  | 404.0  | 394.4  |
| 65°    | 362.5  | 373.2  | 387.0  | 397.6  | 406.1  | 407.2  | 405.1  | 398.7  | 387.0  | 371.0  | 363.6  |
| 67.5°  | 332.8  | 340.2  | 354.0  | 367.9  | 371.0  | 374.2  | 371.0  | 364.7  | 355.1  | 341.3  | 330.6  |
| 70°    | 296.6  | 303.0  | 320.0  | 329.6  | 333.8  | 337.0  | 334.9  | 328.5  | 320.0  | 307.3  | 298.7  |
| 72.5°  | 260.5  | 265.8  | 281.7  | 289.2  | 297.7  | 296.6  | 295.6  | 291.3  | 279.6  | 271.1  | 265.8  |
| 75°    | 222.2  | 228.6  | 239.2  | 248.8  | 252.0  | 252.0  | 252.0  | 248.8  | 241.3  | 227.5  | 222.2  |
| 77.5°  | 187.1  | 190.3  | 198.8  | 204.1  | 207.3  | 208.4  | 207.3  | 202.0  | 197.7  | 188.2  | 185.0  |
| 80°    | 143.5  | 152.0  | 158.4  | 159.5  | 163.7  | 163.7  | 163.7  | 161.6  | 157.3  | 147.8  | 146.7  |
| 82.5°  | 108.4  | 110.6  | 116.9  | 120.1  | 122.3  | 121.2  | 121.2  | 116.9  | 115.9  | 110.6  | 108.4  |
| 85°    | 73.4   | 76.5   | 75.5   | 79.7   | 80.8   | 78.7   | 78.7   | 80.8   | 75.5   | 76.5   | 73.4   |
| 87.5°  | 40.4   | 40.4   | 42.5   | 41.5   | 45.7   | 45.7   | 43.6   | 44.7   | 42.5   | 41.5   | 40.4   |
| 90°    | 15.9   | 16.0   | 16.3   | 16.6   | 16.8   | 17.1   | 16.8   | 16.6   | 16.3   | 16.0   | 15.9   |
| 92.5°  | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   |
| 95°    | 15.9   | 16.0   | 16.1   | 16.2   | 16.4   | 16.5   | 16.4   | 16.2   | 16.1   | 16.0   | 15.9   |
| 97.5°  | 15.3   | 15.4   | 15.5   | 15.6   | 15.8   | 15.9   | 15.8   | 15.6   | 15.5   | 15.4   | 15.3   |
| 100°   | 15.3   | 15.4   | 15.5   | 15.6   | 15.8   | 15.9   | 15.8   | 15.6   | 15.5   | 15.4   | 15.3   |
| 102.5° | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   |
| 105°   | 182.4  | 180.1  | 175.6  | 171.1  | 166.5  | 162.0  | 166.5  | 171.1  | 175.6  | 180.1  | 182.4  |
| 107.5° | 216.5  | 216.8  | 217.3  | 217.8  | 218.3  | 218.8  | 218.3  | 217.8  | 217.3  | 216.8  | 216.5  |
| 110°   | 251.8  | 252.0  | 252.4  | 252.7  | 253.1  | 253.5  | 253.1  | 252.7  | 252.4  | 252.0  | 251.8  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 285.9  | 286.2 | 286.7 | 287.2 | 287.7 | 288.2 | 287.7 | 287.2 | 286.7 | 286.2 | 285.9  |
| 115°   | 321.7  | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7  |
| 117.5° | 356.4  | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4  |
| 120°   | 389.9  | 389.8 | 389.5 | 389.3 | 389.0 | 388.8 | 389.0 | 389.3 | 389.5 | 389.8 | 389.9  |
| 122.5° | 421.7  | 421.6 | 421.3 | 421.1 | 420.8 | 420.6 | 420.8 | 421.1 | 421.3 | 421.6 | 421.7  |
| 125°   | 451.9  | 452.0 | 452.1 | 452.2 | 452.3 | 452.4 | 452.3 | 452.2 | 452.1 | 452.0 | 451.9  |
| 127.5° | 480.8  | 480.7 | 480.6 | 480.5 | 480.4 | 480.3 | 480.4 | 480.5 | 480.6 | 480.7 | 480.8  |
| 130°   | 508.7  | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7  |
| 132.5° | 535.4  | 535.3 | 535.2 | 535.1 | 534.9 | 534.8 | 534.9 | 535.1 | 535.2 | 535.3 | 535.4  |
| 135°   | 559.8  | 559.9 | 560.2 | 560.5 | 560.7 | 561.0 | 560.7 | 560.5 | 560.2 | 559.9 | 559.8  |
| 137.5° | 583.7  | 583.6 | 583.5 | 583.4 | 583.2 | 583.1 | 583.2 | 583.4 | 583.5 | 583.6 | 583.7  |
| 140°   | 605.9  | 606.0 | 606.1 | 606.2 | 606.4 | 606.5 | 606.4 | 606.2 | 606.1 | 606.0 | 605.9  |
| 142.5° | 625.8  | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8 | 625.8  |
| 145°   | 644.5  | 644.6 | 644.9 | 645.2 | 645.4 | 645.7 | 645.4 | 645.2 | 644.9 | 644.6 | 644.5  |
| 147.5° | 661.6  | 661.7 | 661.8 | 661.9 | 662.1 | 662.2 | 662.1 | 661.9 | 661.8 | 661.7 | 661.6  |
| 150°   | 677.5  | 677.6 | 677.7 | 677.8 | 678.0 | 678.1 | 678.0 | 677.8 | 677.7 | 677.6 | 677.5  |
| 152.5° | 692.3  | 692.2 | 692.1 | 692.0 | 691.8 | 691.7 | 691.8 | 692.0 | 692.1 | 692.2 | 692.3  |
| 155°   | 705.3  | 705.1 | 704.7 | 704.4 | 704.0 | 703.6 | 704.0 | 704.4 | 704.7 | 705.1 | 705.3  |
| 157.5° | 716.7  | 716.4 | 715.8 | 715.1 | 714.5 | 713.9 | 714.5 | 715.1 | 715.8 | 716.4 | 716.7  |
| 160°   | 727.5  | 727.1 | 726.4 | 725.6 | 724.9 | 724.1 | 724.9 | 725.6 | 726.4 | 727.1 | 727.5  |
| 162.5° | 736.0  | 735.6 | 734.7 | 733.8 | 733.0 | 732.1 | 733.0 | 733.8 | 734.7 | 735.6 | 736.0  |
| 165°   | 744.6  | 744.0 | 742.9 | 741.7 | 740.6 | 739.4 | 740.6 | 741.7 | 742.9 | 744.0 | 744.6  |
| 167.5° | 750.8  | 750.2 | 748.9 | 747.6 | 746.4 | 745.1 | 746.4 | 747.6 | 748.9 | 750.2 | 750.8  |
| 170°   | 755.9  | 755.3 | 754.0 | 752.7 | 751.5 | 750.2 | 751.5 | 752.7 | 754.0 | 755.3 | 755.9  |
| 172.5° | 759.3  | 758.6 | 757.2 | 755.9 | 754.5 | 753.1 | 754.5 | 755.9 | 757.2 | 758.6 | 759.3  |
| 175°   | 762.2  | 761.4 | 759.9 | 758.4 | 756.9 | 755.4 | 756.9 | 758.4 | 759.9 | 761.4 | 762.2  |
| 177.5° | 763.3  | 762.5 | 761.0 | 759.5 | 758.0 | 756.5 | 758.0 | 759.5 | 761.0 | 762.5 | 763.3  |
| 180°   | 759.9  | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1206.7 | 1213.1 | 1206.7 | 1210.9 | 1213.1 | 1218.4 | 1220.5 | 1230.1 | 1233.3 | 1240.7 | 1240.7 |
| 5°     | 1134.4 | 1137.6 | 1138.6 | 1142.9 | 1147.2 | 1157.8 | 1165.2 | 1179.0 | 1195.0 | 1197.1 | 1206.7 |
| 7.5°   | 1075.9 | 1081.2 | 1089.7 | 1086.6 | 1094.0 | 1109.9 | 1119.5 | 1136.5 | 1152.5 | 1161.0 | 1172.7 |
| 10°    | 1023.8 | 1030.2 | 1033.4 | 1036.6 | 1050.4 | 1064.2 | 1079.1 | 1090.8 | 1112.1 | 1124.8 | 1134.4 |
| 12.5°  | 981.3  | 976.0  | 982.4  | 994.1  | 1010.0 | 1018.5 | 1038.7 | 1056.8 | 1072.7 | 1086.6 | 1095.1 |
| 15°    | 926.0  | 930.3  | 936.6  | 956.8  | 961.1  | 982.4  | 989.8  | 1010.0 | 1039.8 | 1052.5 | 1063.2 |
| 17.5°  | 872.9  | 886.7  | 899.4  | 906.9  | 919.6  | 936.6  | 957.9  | 980.2  | 999.4  | 1014.3 | 1027.0 |
| 20°    | 830.3  | 844.2  | 851.6  | 856.9  | 869.7  | 893.1  | 913.3  | 940.9  | 965.4  | 977.0  | 994.1  |
| 22.5°  | 796.3  | 796.3  | 806.9  | 822.9  | 830.3  | 852.7  | 869.7  | 899.4  | 926.0  | 940.9  | 956.8  |
| 25°    | 753.8  | 760.2  | 768.7  | 782.5  | 793.1  | 811.2  | 835.6  | 861.2  | 889.9  | 902.6  | 922.8  |
| 27.5°  | 718.7  | 726.1  | 737.8  | 741.0  | 751.7  | 767.6  | 793.1  | 820.8  | 850.5  | 864.4  | 881.4  |
| 30°    | 692.1  | 696.4  | 700.6  | 707.0  | 716.6  | 730.4  | 751.7  | 776.1  | 812.3  | 822.9  | 844.2  |
| 32.5°  | 668.7  | 670.9  | 673.0  | 678.3  | 683.6  | 697.4  | 714.4  | 741.0  | 770.8  | 786.7  | 805.9  |
| 35°    | 647.5  | 645.3  | 646.4  | 649.6  | 654.9  | 660.2  | 678.3  | 700.6  | 728.3  | 747.4  | 762.3  |
| 37.5°  | 627.3  | 623.0  | 621.9  | 621.9  | 624.1  | 630.5  | 644.3  | 663.4  | 693.2  | 709.1  | 724.0  |
| 40°    | 604.9  | 600.7  | 598.6  | 597.5  | 596.4  | 600.7  | 611.3  | 630.5  | 653.8  | 668.7  | 685.7  |
| 42.5°  | 583.7  | 579.4  | 574.1  | 573.0  | 570.9  | 573.0  | 580.5  | 598.6  | 618.8  | 633.6  | 647.5  |
| 45°    | 562.4  | 555.0  | 548.6  | 544.3  | 545.4  | 542.2  | 547.5  | 561.3  | 584.7  | 594.3  | 608.1  |
| 47.5°  | 539.0  | 530.5  | 522.0  | 517.8  | 513.5  | 515.6  | 517.8  | 529.5  | 549.7  | 559.2  | 573.0  |
| 50°    | 516.7  | 505.0  | 495.4  | 490.1  | 486.9  | 484.8  | 486.9  | 498.6  | 513.5  | 522.0  | 533.7  |
| 52.5°  | 491.2  | 479.5  | 469.9  | 461.4  | 457.2  | 454.0  | 455.0  | 465.7  | 479.5  | 488.0  | 499.7  |
| 55°    | 467.8  | 452.9  | 440.1  | 429.5  | 426.3  | 425.3  | 424.2  | 431.6  | 443.3  | 451.8  | 461.4  |
| 57.5°  | 441.2  | 426.3  | 412.5  | 399.7  | 393.4  | 392.3  | 392.3  | 394.4  | 409.3  | 415.7  | 421.0  |
| 60°    | 414.6  | 398.7  | 383.8  | 372.1  | 362.5  | 359.3  | 358.3  | 362.5  | 370.0  | 376.4  | 383.8  |
| 62.5°  | 384.9  | 368.9  | 350.8  | 340.2  | 330.6  | 322.1  | 325.3  | 326.4  | 337.0  | 340.2  | 346.6  |
| 65°    | 356.2  | 338.1  | 323.2  | 306.2  | 295.6  | 290.2  | 288.1  | 290.2  | 298.7  | 299.8  | 304.1  |
| 67.5°  | 323.2  | 306.2  | 288.1  | 276.4  | 266.9  | 257.3  | 255.2  | 255.2  | 259.4  | 262.6  | 267.9  |
| 70°    | 291.3  | 274.3  | 254.1  | 241.3  | 231.8  | 223.3  | 220.1  | 219.0  | 222.2  | 224.3  | 229.6  |
| 72.5°  | 254.1  | 237.1  | 222.2  | 208.4  | 196.7  | 190.3  | 187.1  | 185.0  | 188.2  | 190.3  | 191.4  |
| 75°    | 214.8  | 200.9  | 186.1  | 172.2  | 164.8  | 158.4  | 154.2  | 151.0  | 153.1  | 153.1  | 153.1  |
| 77.5°  | 177.5  | 163.7  | 152.0  | 142.5  | 132.9  | 125.5  | 122.3  | 119.1  | 120.1  | 120.1  | 122.3  |
| 80°    | 138.2  | 128.6  | 119.1  | 110.6  | 102.1  | 95.7   | 93.6   | 90.4   | 88.2   | 87.2   | 87.2   |
| 82.5°  | 102.1  | 94.6   | 86.1   | 78.7   | 74.4   | 68.0   | 65.9   | 61.7   | 61.7   | 60.6   | 60.6   |
| 85°    | 68.0   | 63.8   | 55.3   | 50.0   | 46.8   | 43.6   | 41.5   | 39.3   | 36.1   | 36.1   | 35.1   |
| 87.5°  | 36.1   | 34.0   | 31.9   | 25.5   | 25.5   | 22.3   | 21.3   | 20.2   | 17.0   | 18.1   | 18.1   |
| 90°    | 15.5   | 14.8   | 14.0   | 13.3   | 12.5   | 11.5   | 10.5   | 9.5    | 8.5    | 8.0    | 7.3    |
| 92.5°  | 14.9   | 14.2   | 13.4   | 12.7   | 11.9   | 10.9   | 9.9    | 8.9    | 7.9    | 7.4    | 7.5    |
| 95°    | 15.5   | 14.8   | 14.0   | 13.3   | 12.5   | 12.4   | 12.2   | 12.1   | 12.0   | 11.9   | 14.1   |
| 97.5°  | 15.0   | 14.4   | 13.7   | 13.1   | 12.5   | 25.8   | 39.0   | 52.3   | 65.6   | 72.2   | 70.8   |
| 100°   | 16.4   | 18.5   | 20.7   | 22.8   | 25.0   | 42.4   | 59.8   | 77.3   | 94.7   | 103.4  | 102.3  |
| 102.5° | 30.7   | 59.1   | 87.6   | 116.0  | 144.4  | 142.9  | 141.3  | 139.8  | 138.3  | 137.5  | 136.7  |
| 105°   | 181.8  | 180.7  | 179.6  | 178.4  | 177.3  | 176.7  | 176.1  | 175.4  | 174.8  | 174.5  | 174.1  |
| 107.5° | 216.2  | 215.6  | 214.9  | 214.3  | 213.7  | 212.8  | 211.9  | 211.0  | 210.1  | 209.7  | 209.5  |
| 110°   | 251.7  | 251.4  | 251.2  | 250.9  | 250.7  | 249.9  | 249.1  | 248.4  | 247.6  | 247.2  | 247.0  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 286.0 | 286.1 | 286.2 | 286.4 | 286.5 | 286.2 | 286.0 | 285.7 | 285.4 | 285.3  | 284.9 |
| 115°   | 321.6 | 321.3 | 321.1 | 320.8 | 320.6 | 320.7 | 320.8 | 320.9 | 321.0 | 321.1  | 320.9 |
| 117.5° | 356.5 | 356.6 | 356.7 | 356.8 | 356.9 | 356.5 | 356.1 | 355.8 | 355.4 | 355.2  | 355.0 |
| 120°   | 389.8 | 389.5 | 389.3 | 389.0 | 388.8 | 388.9 | 389.0 | 389.1 | 389.2 | 389.3  | 389.1 |
| 122.5° | 421.6 | 421.5 | 421.4 | 421.3 | 421.2 | 420.9 | 420.7 | 420.4 | 420.1 | 420.0  | 419.9 |
| 125°   | 451.7 | 451.3 | 450.9 | 450.5 | 450.1 | 450.4 | 450.6 | 450.9 | 451.2 | 451.3  | 451.0 |
| 127.5° | 480.9 | 481.0 | 481.1 | 481.3 | 481.4 | 480.8 | 480.2 | 479.5 | 478.9 | 478.6  | 478.5 |
| 130°   | 508.6 | 508.5 | 508.4 | 508.2 | 508.1 | 507.7 | 507.3 | 507.0 | 506.6 | 506.4  | 506.3 |
| 132.5° | 535.3 | 535.2 | 535.1 | 534.9 | 534.8 | 534.3 | 533.8 | 533.3 | 532.8 | 532.6  | 532.5 |
| 135°   | 559.7 | 559.4 | 559.2 | 558.9 | 558.7 | 558.2 | 557.7 | 557.2 | 556.7 | 556.4  | 556.5 |
| 137.5° | 583.6 | 583.3 | 583.1 | 582.8 | 582.6 | 582.0 | 581.3 | 580.7 | 580.0 | 579.7  | 579.7 |
| 140°   | 605.7 | 605.3 | 605.0 | 604.6 | 604.2 | 603.9 | 603.7 | 603.4 | 603.1 | 603.0  | 602.9 |
| 142.5° | 625.7 | 625.4 | 625.1 | 624.9 | 624.6 | 624.5 | 624.4 | 624.3 | 624.2 | 624.1  | 623.8 |
| 145°   | 644.4 | 644.3 | 644.2 | 644.1 | 644.0 | 644.0 | 644.0 | 644.0 | 644.0 | 644.0  | 643.8 |
| 147.5° | 661.5 | 661.4 | 661.3 | 661.1 | 661.0 | 661.1 | 661.3 | 661.4 | 661.5 | 661.6  | 661.2 |
| 150°   | 677.5 | 677.5 | 677.5 | 677.5 | 677.5 | 677.6 | 677.8 | 677.9 | 678.0 | 678.1  | 677.8 |
| 152.5° | 692.2 | 691.9 | 691.6 | 691.4 | 691.1 | 691.4 | 691.6 | 691.9 | 692.2 | 692.3  | 692.1 |
| 155°   | 705.1 | 704.6 | 704.1 | 703.6 | 703.1 | 703.5 | 703.9 | 704.2 | 704.6 | 704.8  | 704.7 |
| 157.5° | 716.4 | 715.8 | 715.1 | 714.5 | 713.9 | 714.4 | 714.9 | 715.4 | 715.9 | 716.1  | 716.1 |
| 160°   | 727.1 | 726.4 | 725.6 | 724.9 | 724.1 | 724.2 | 724.4 | 724.5 | 724.6 | 724.7  | 724.9 |
| 162.5° | 735.6 | 734.9 | 734.1 | 733.4 | 732.6 | 732.7 | 732.9 | 733.0 | 733.1 | 733.2  | 733.5 |
| 165°   | 744.1 | 743.1 | 742.0 | 741.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0  | 740.3 |
| 167.5° | 750.2 | 749.1 | 748.0 | 746.8 | 745.7 | 745.8 | 746.0 | 746.1 | 746.2 | 746.3  | 746.6 |
| 170°   | 755.4 | 754.4 | 753.4 | 752.4 | 751.4 | 751.3 | 751.1 | 751.0 | 750.9 | 750.8  | 751.2 |
| 172.5° | 758.8 | 757.8 | 756.8 | 755.8 | 754.8 | 754.7 | 754.5 | 754.4 | 754.3 | 754.2  | 754.6 |
| 175°   | 761.6 | 760.5 | 759.4 | 758.2 | 757.1 | 757.0 | 756.8 | 756.7 | 756.6 | 756.5  | 756.9 |
| 177.5° | 762.8 | 761.8 | 760.8 | 759.8 | 758.8 | 758.5 | 758.3 | 758.0 | 757.7 | 757.6  | 758.0 |
| 180°   | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9 | 759.9  | 759.9 |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1283.2 | 1283.2 | 1283.2 | 1283.2 |
| 2.5°   | 1248.2 | 1258.8 | 1268.4 | 1283.2 |
| 5°     | 1220.5 | 1235.4 | 1255.6 | 1277.9 |
| 7.5°   | 1188.6 | 1212.0 | 1238.6 | 1269.4 |
| 10°    | 1158.8 | 1185.4 | 1219.4 | 1256.7 |
| 12.5°  | 1128.0 | 1159.9 | 1197.1 | 1237.5 |
| 15°    | 1092.9 | 1124.8 | 1166.3 | 1220.5 |
| 17.5°  | 1061.0 | 1099.3 | 1144.0 | 1201.4 |
| 20°    | 1023.8 | 1060.0 | 1108.9 | 1174.8 |
| 22.5°  | 990.9  | 1032.3 | 1086.6 | 1144.0 |
| 25°    | 954.7  | 990.9  | 1045.1 | 1114.2 |
| 27.5°  | 918.6  | 963.2  | 1015.3 | 1082.3 |
| 30°    | 883.5  | 920.7  | 977.0  | 1047.2 |
| 32.5°  | 845.2  | 889.9  | 942.0  | 1007.9 |
| 35°    | 803.8  | 846.3  | 895.2  | 966.4  |
| 37.5°  | 766.5  | 808.0  | 858.0  | 920.7  |
| 40°    | 725.1  | 768.7  | 814.4  | 877.1  |
| 42.5°  | 684.7  | 724.0  | 769.7  | 827.1  |
| 45°    | 645.3  | 679.4  | 720.8  | 770.8  |
| 47.5°  | 604.9  | 633.6  | 671.9  | 716.6  |
| 50°    | 561.3  | 592.2  | 620.9  | 658.1  |
| 52.5°  | 520.9  | 547.5  | 570.9  | 601.7  |
| 55°    | 481.6  | 499.7  | 518.8  | 542.2  |
| 57.5°  | 440.1  | 454.0  | 467.8  | 492.2  |
| 60°    | 398.7  | 411.4  | 418.9  | 434.8  |
| 62.5°  | 358.3  | 363.6  | 373.2  | 382.7  |
| 65°    | 313.6  | 321.1  | 326.4  | 338.1  |
| 67.5°  | 273.2  | 276.4  | 281.7  | 289.2  |
| 70°    | 230.7  | 238.1  | 240.3  | 245.6  |
| 72.5°  | 194.6  | 197.7  | 199.9  | 200.9  |
| 75°    | 154.2  | 157.3  | 159.5  | 165.9  |
| 77.5°  | 121.2  | 120.1  | 124.4  | 125.5  |
| 80°    | 89.3   | 86.1   | 87.2   | 91.4   |
| 82.5°  | 58.5   | 59.5   | 58.5   | 58.5   |
| 85°    | 36.1   | 35.1   | 33.0   | 34.0   |
| 87.5°  | 15.9   | 15.9   | 14.9   | 14.9   |
| 90°    | 5.9    | 4.5    | 3.1    | 1.7    |
| 92.5°  | 7.8    | 8.0    | 8.3    | 8.5    |
| 95°    | 18.4   | 22.7   | 27.0   | 31.3   |
| 97.5°  | 68.0   | 65.3   | 62.5   | 59.7   |
| 100°   | 100.0  | 97.7   | 95.5   | 93.2   |
| 102.5° | 135.2  | 133.7  | 132.2  | 130.7  |
| 105°   | 173.4  | 172.6  | 171.9  | 171.1  |
| 107.5° | 209.1  | 208.8  | 208.4  | 208.0  |
| 110°   | 246.6  | 246.3  | 245.9  | 245.5  |

TEST NUMBER: P1013177

CATALOG NUMBER: S124DIP-B795D590UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 284.2 | 283.4 | 282.7 | 281.9 |
| 115°   | 320.5 | 320.2 | 319.8 | 319.4 |
| 117.5° | 354.5 | 354.0 | 353.5 | 353.0 |
| 120°   | 388.6 | 388.1 | 387.6 | 387.1 |
| 122.5° | 419.6 | 419.4 | 419.1 | 418.9 |
| 125°   | 450.5 | 450.0 | 449.5 | 449.0 |
| 127.5° | 478.4 | 478.3 | 478.1 | 478.0 |
| 130°   | 506.2 | 506.1 | 505.9 | 505.8 |
| 132.5° | 532.2 | 531.9 | 531.7 | 531.4 |
| 135°   | 556.6 | 556.7 | 556.9 | 557.0 |
| 137.5° | 579.7 | 579.7 | 579.7 | 579.7 |
| 140°   | 602.6 | 602.4 | 602.1 | 601.9 |
| 142.5° | 623.3 | 622.8 | 622.3 | 621.8 |
| 145°   | 643.4 | 643.1 | 642.7 | 642.3 |
| 147.5° | 660.5 | 659.7 | 659.0 | 658.2 |
| 150°   | 677.3 | 676.8 | 676.3 | 675.8 |
| 152.5° | 691.7 | 691.4 | 691.0 | 690.6 |
| 155°   | 704.6 | 704.5 | 704.3 | 704.2 |
| 157.5° | 716.1 | 716.1 | 716.1 | 716.1 |
| 160°   | 725.3 | 725.6 | 726.0 | 726.4 |
| 162.5° | 734.0 | 734.5 | 735.0 | 735.5 |
| 165°   | 741.0 | 741.6 | 742.3 | 742.9 |
| 167.5° | 747.2 | 747.9 | 748.5 | 749.1 |
| 170°   | 751.9 | 752.7 | 753.4 | 754.2 |
| 172.5° | 755.3 | 756.1 | 756.8 | 757.6 |
| 175°   | 757.6 | 758.4 | 759.1 | 759.9 |
| 177.5° | 758.9 | 759.8 | 760.7 | 761.6 |
| 180°   | 759.9 | 759.9 | 759.9 | 759.9 |

(END OF REPORT)