

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: P1008163

Luminaire Tested: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008163  
REPORT IS A COMBINATION OF REPORTS P984491 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K  
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

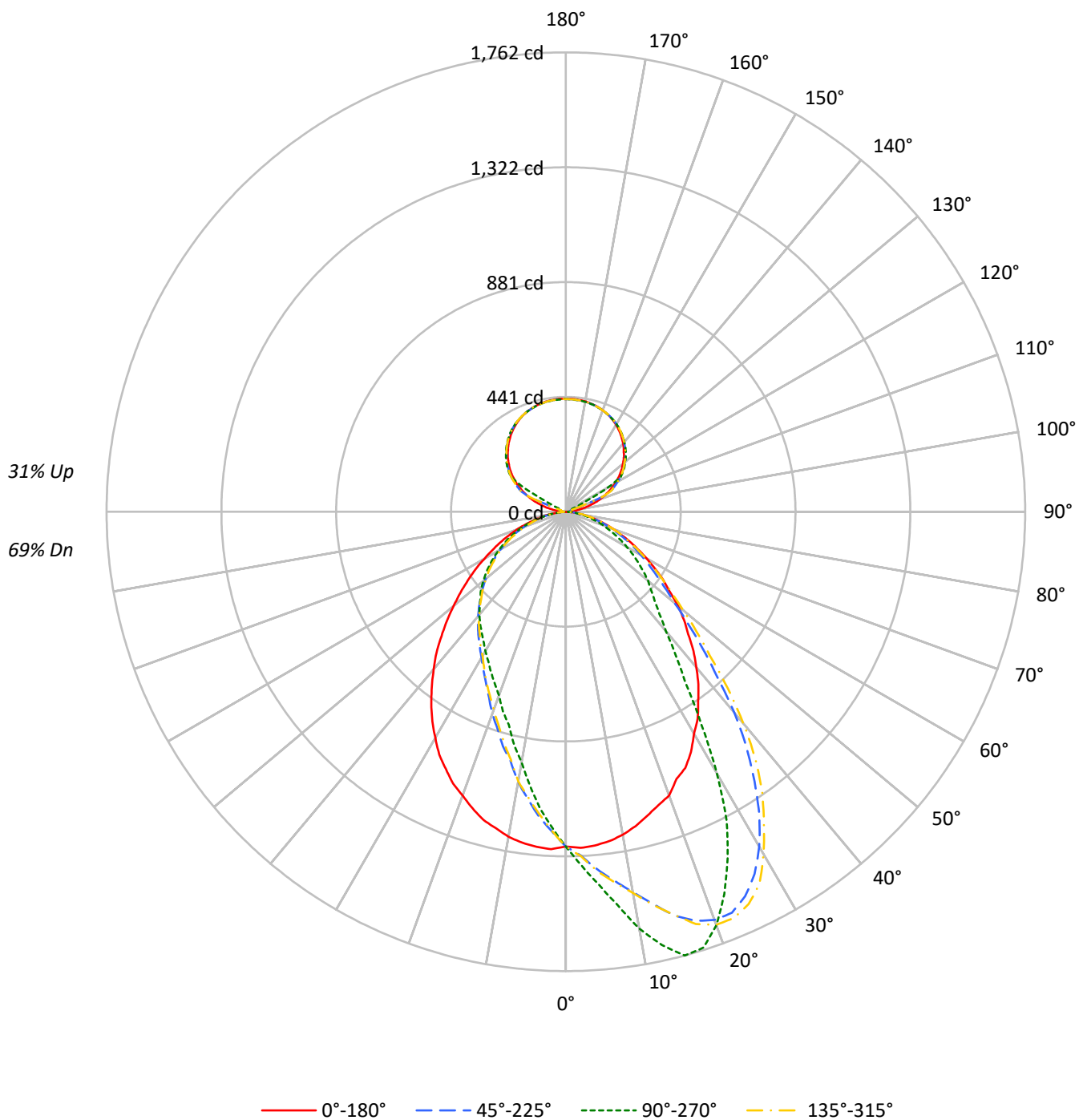
Lumens per Lamp: N/A  
Luminaire Lumens: 4100.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 45.2  
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: P1008163

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### Luminous Intensity Polar Plot



TEST NUMBER: P1008163

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**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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 |    |    |
| 1   | 103 | 99  | 95  | 91  | 97  | 93  | 90  | 87  | 83 | 81 | 79 | 74 | 73 | 71 | 66 | 65 | 64 | 60 |    |    |
| 2   | 94  | 87  | 81  | 76  | 89  | 82  | 77  | 73  | 74 | 70 | 66 | 66 | 63 | 60 | 59 | 57 | 55 | 51 |    |    |
| 3   | 86  | 77  | 70  | 64  | 81  | 73  | 67  | 62  | 66 | 61 | 57 | 59 | 55 | 52 | 53 | 50 | 47 | 44 |    |    |
| 4   | 79  | 69  | 61  | 55  | 75  | 65  | 58  | 53  | 59 | 53 | 49 | 53 | 49 | 45 | 48 | 44 | 41 | 38 |    |    |
| 5   | 73  | 62  | 54  | 48  | 69  | 59  | 51  | 46  | 53 | 47 | 43 | 48 | 43 | 40 | 43 | 40 | 36 | 34 |    |    |
| 6   | 68  | 56  | 48  | 42  | 64  | 53  | 46  | 40  | 48 | 42 | 38 | 44 | 39 | 35 | 40 | 36 | 32 | 30 |    |    |
| 7   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 36  | 44 | 38 | 34 | 40 | 35 | 31 | 36 | 32 | 29 | 27 |    |    |
| 8   | 59  | 46  | 39  | 33  | 55  | 44  | 37  | 32  | 41 | 35 | 30 | 37 | 32 | 28 | 34 | 29 | 26 | 24 |    |    |
| 9   | 55  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 27 | 34 | 29 | 26 | 31 | 27 | 24 | 22 |    |    |
| 10  | 51  | 39  | 32  | 27  | 49  | 38  | 31  | 26  | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 | 20 |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 20318 | 20318 | 20318 | 20318 |
| 5°  | 20367 | 21665 | 20445 | 17235 |
| 10° | 20130 | 23650 | 20257 | 14211 |
| 15° | 19642 | 24945 | 19915 | 11969 |
| 20° | 19336 | 23422 | 19336 | 10403 |
| 25° | 18720 | 20122 | 18804 | 9304  |
| 30° | 17706 | 15818 | 18043 | 8427  |
| 35° | 16808 | 10938 | 17089 | 7711  |
| 40° | 15774 | 8258  | 15954 | 7139  |
| 45° | 14502 | 6787  | 14738 | 6522  |
| 50° | 13401 | 5956  | 13425 | 5970  |
| 55° | 12145 | 5075  | 12225 | 5371  |
| 60° | 10809 | 4239  | 10957 | 4687  |
| 65° | 9609  | 3448  | 9787  | 4003  |
| 70° | 8419  | 2705  | 8631  | 3229  |
| 75° | 7065  | 1964  | 7339  | 2341  |
| 80° | 5517  | 1245  | 5908  | 1390  |
| 85° | 3630  | 626   | 3899  | 463   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 21003 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.3  | 3.0       |
| 10°-20°   | 355.8  | 8.7       |
| 20°-30°   | 516.4  | 12.6      |
| 30°-40°   | 544.4  | 13.3      |
| 40°-50°   | 481.8  | 11.8      |
| 50°-60°   | 384.7  | 9.4       |
| 60°-70°   | 261.3  | 6.4       |
| 70°-80°   | 133.7  | 3.3       |
| 80°-90°   | 32.3   | 0.8       |
| 90°-100°  | 14.3   | 0.3       |
| 100°-110° | 53.1   | 1.3       |
| 110°-120° | 140.9  | 3.4       |
| 120°-130° | 233.7  | 5.7       |
| 130°-140° | 248.3  | 6.1       |
| 140°-150° | 230.7  | 5.6       |
| 150°-160° | 185.5  | 4.5       |
| 160°-170° | 119.5  | 2.9       |
| 170°-180° | 41.1   | 1.0       |
| 0°-30°    | 994.6  | 24.3      |
| 0°-40°    | 1539.0 | 37.5      |
| 0°-60°    | 2405.4 | 58.7      |
| 0°-90°    | 2832.8 | 69.1      |
| 90°-120°  | 208.3  | 5.1       |
| 90°-150°  | 921.1  | 22.5      |
| 90°-180°  | 1267.0 | 30.9      |
| 0°-180°   | 4100.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1284 | 1284 | 1284 | 1284 | 1284 |      |
| 5°   | 1285 | 1434 | 1290 | 1140 | 1285 | 122  |
| 15°  | 1207 | 1762 | 1223 | 846  | 1207 | 341  |
| 25°  | 1084 | 1468 | 1089 | 679  | 1084 | 496  |
| 35°  | 885  | 799  | 900  | 563  | 885  | 554  |
| 45°  | 664  | 482  | 675  | 463  | 664  | 515  |
| 55°  | 456  | 338  | 459  | 358  | 456  | 407  |
| 65°  | 270  | 208  | 275  | 242  | 270  | 269  |
| 75°  | 126  | 103  | 131  | 122  | 126  | 136  |
| 85°  | 26   | 27   | 28   | 20   | 26   | 30   |
| 90°  | 0    | 8    | 0    | 8    | 0    | 3    |
| 95°  | 20   | 13   | 20   | 13   | 20   | 24   |
| 105° | 95   | 24   | 95   | 24   | 95   | 102  |
| 115° | 180  | 26   | 180  | 26   | 180  | 177  |
| 125° | 254  | 267  | 254  | 267  | 254  | 227  |
| 135° | 315  | 325  | 315  | 325  | 315  | 243  |
| 145° | 365  | 371  | 365  | 371  | 365  | 228  |
| 155° | 402  | 402  | 402  | 402  | 402  | 185  |
| 165° | 424  | 423  | 424  | 423  | 424  | 120  |
| 175° | 433  | 431  | 433  | 431  | 433  | 41   |
| 180° | 432  | 432  | 432  | 432  | 432  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1290.5 | 1293.5 | 1298.4 | 1299.4 | 1309.2 | 1317.1 | 1326.0 | 1326.0 | 1329.0 | 1328.0 | 1320.1 |
| 5°     | 1284.6 | 1293.5 | 1306.3 | 1317.1 | 1334.9 | 1342.8 | 1354.6 | 1363.5 | 1371.4 | 1377.3 | 1376.3 |
| 7.5°   | 1274.7 | 1290.5 | 1309.2 | 1330.0 | 1353.6 | 1367.5 | 1384.2 | 1400.0 | 1410.9 | 1420.7 | 1427.6 |
| 10°    | 1257.9 | 1284.6 | 1310.2 | 1337.9 | 1368.4 | 1387.2 | 1406.9 | 1427.6 | 1444.4 | 1463.2 | 1480.9 |
| 12.5°  | 1235.2 | 1273.7 | 1305.3 | 1341.8 | 1379.3 | 1400.0 | 1431.6 | 1447.4 | 1479.9 | 1527.3 | 1540.1 |
| 15°    | 1206.6 | 1258.9 | 1288.5 | 1334.9 | 1384.2 | 1401.0 | 1444.4 | 1470.1 | 1537.2 | 1566.8 | 1602.3 |
| 17.5°  | 1180.0 | 1238.2 | 1277.7 | 1331.0 | 1379.3 | 1411.9 | 1454.3 | 1506.6 | 1562.8 | 1605.2 | 1644.7 |
| 20°    | 1158.3 | 1214.5 | 1261.9 | 1321.1 | 1382.3 | 1423.7 | 1468.1 | 1531.2 | 1592.4 | 1635.8 | 1666.4 |
| 22.5°  | 1109.0 | 1181.0 | 1236.2 | 1302.3 | 1376.3 | 1433.6 | 1476.0 | 1545.0 | 1611.2 | 1637.8 | 1664.4 |
| 25°    | 1084.3 | 1146.5 | 1210.6 | 1285.6 | 1372.4 | 1440.5 | 1477.0 | 1553.9 | 1612.1 | 1622.0 | 1627.9 |
| 27.5°  | 1038.9 | 1109.0 | 1183.9 | 1269.8 | 1371.4 | 1428.6 | 1475.0 | 1545.0 | 1591.4 | 1584.5 | 1566.8 |
| 30°    | 982.7  | 1068.5 | 1151.4 | 1244.1 | 1357.6 | 1419.7 | 1463.2 | 1527.3 | 1551.0 | 1515.5 | 1483.9 |
| 32.5°  | 941.2  | 1022.1 | 1113.9 | 1221.4 | 1341.8 | 1401.0 | 1443.4 | 1493.7 | 1498.7 | 1434.5 | 1381.3 |
| 35°    | 885.0  | 974.8  | 1078.4 | 1191.8 | 1315.2 | 1368.4 | 1407.9 | 1438.5 | 1414.8 | 1325.0 | 1261.9 |
| 37.5°  | 834.7  | 923.5  | 1034.0 | 1149.4 | 1278.7 | 1331.0 | 1362.5 | 1367.5 | 1309.2 | 1230.3 | 1137.6 |
| 40°    | 779.4  | 871.2  | 986.6  | 1108.0 | 1238.2 | 1283.6 | 1303.3 | 1288.5 | 1204.7 | 1112.9 | 1005.4 |
| 42.5°  | 724.2  | 814.9  | 939.3  | 1063.6 | 1186.9 | 1225.4 | 1233.3 | 1192.8 | 1090.2 | 982.7  | 858.4  |
| 45°    | 664.0  | 758.7  | 883.0  | 1008.3 | 1127.7 | 1149.4 | 1150.4 | 1092.2 | 970.8  | 858.4  | 742.9  |
| 47.5°  | 614.7  | 702.5  | 825.8  | 951.1  | 1051.7 | 1066.5 | 1060.6 | 993.5  | 861.3  | 735.0  | 634.4  |
| 50°    | 560.4  | 644.3  | 766.6  | 889.9  | 975.8  | 979.7  | 964.9  | 869.2  | 740.0  | 624.5  | 544.6  |
| 52.5°  | 502.2  | 587.0  | 699.5  | 817.9  | 894.9  | 888.9  | 860.3  | 757.7  | 636.4  | 540.7  | 479.5  |
| 55°    | 455.8  | 530.8  | 636.4  | 751.8  | 806.1  | 789.3  | 757.7  | 653.1  | 557.4  | 476.5  | 423.3  |
| 57.5°  | 404.5  | 470.6  | 574.2  | 674.8  | 706.4  | 690.6  | 659.1  | 561.4  | 472.6  | 411.4  | 375.9  |
| 60°    | 356.2  | 416.4  | 507.1  | 591.0  | 615.7  | 598.9  | 562.4  | 474.6  | 410.4  | 359.1  | 332.5  |
| 62.5°  | 311.8  | 364.1  | 440.0  | 517.0  | 526.9  | 510.1  | 478.5  | 407.5  | 352.2  | 311.8  | 292.0  |
| 65°    | 270.3  | 319.7  | 380.8  | 439.0  | 447.9  | 430.2  | 397.6  | 346.3  | 299.9  | 274.3  | 255.5  |
| 67.5°  | 229.9  | 269.3  | 323.6  | 366.0  | 371.0  | 354.2  | 327.6  | 286.1  | 257.5  | 229.9  | 216.1  |
| 70°    | 194.4  | 224.0  | 266.4  | 300.9  | 302.9  | 287.1  | 273.3  | 235.8  | 214.1  | 194.4  | 183.5  |
| 72.5°  | 159.8  | 180.6  | 213.1  | 238.8  | 239.7  | 229.9  | 217.1  | 193.4  | 174.6  | 160.8  | 150.0  |
| 75°    | 126.3  | 144.0  | 163.8  | 186.5  | 185.5  | 177.6  | 167.7  | 152.9  | 137.1  | 128.3  | 123.3  |
| 77.5°  | 96.7   | 107.5  | 123.3  | 138.1  | 138.1  | 134.2  | 128.3  | 117.4  | 107.5  | 98.7   | 93.7   |
| 80°    | 69.1   | 76.0   | 88.8   | 93.7   | 95.7   | 94.7   | 89.8   | 81.9   | 77.9   | 71.0   | 69.1   |
| 82.5°  | 44.4   | 49.3   | 55.3   | 60.2   | 63.1   | 61.2   | 60.2   | 56.2   | 50.3   | 48.3   | 46.4   |
| 85°    | 25.7   | 27.6   | 30.6   | 33.5   | 34.5   | 33.5   | 35.5   | 32.6   | 29.6   | 29.6   | 28.6   |
| 87.5°  | 10.9   | 11.8   | 13.8   | 13.8   | 14.8   | 14.8   | 13.8   | 14.8   | 14.8   | 13.8   | 12.8   |
| 90°    | 0.3    | 1.1    | 1.9    | 2.6    | 3.4    | 3.8    | 4.1    | 4.6    | 5.2    | 5.7    | 6.3    |
| 92.5°  | 7.8    | 7.5    | 7.3    | 7.0    | 6.7    | 6.6    | 6.7    | 6.9    | 7.1    | 7.3    | 7.5    |
| 95°    | 20.3   | 18.0   | 15.7   | 13.4   | 11.1   | 10.0   | 10.2   | 10.7   | 11.2   | 11.7   | 12.2   |
| 97.5°  | 36.6   | 30.9   | 25.2   | 19.5   | 13.8   | 10.9   | 11.5   | 12.6   | 13.7   | 14.9   | 16.0   |
| 100°   | 55.4   | 45.9   | 36.3   | 26.8   | 17.3   | 12.5   | 13.1   | 14.3   | 15.4   | 16.6   | 17.8   |
| 102.5° | 76.0   | 75.9   | 75.7   | 75.6   | 75.5   | 75.4   | 69.1   | 56.4   | 43.8   | 31.1   | 18.5   |
| 105°   | 95.1   | 97.2   | 99.3   | 101.4  | 103.5  | 104.5  | 95.0   | 76.0   | 57.1   | 38.1   | 19.1   |
| 107.5° | 117.3  | 119.0  | 120.8  | 122.5  | 124.2  | 125.1  | 113.4  | 90.0   | 66.5   | 43.1   | 19.7   |
| 110°   | 138.6  | 140.0  | 141.5  | 142.9  | 144.4  | 145.1  | 135.1  | 115.0  | 94.9   | 74.8   | 54.7   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 158.6 | 159.8 | 161.1 | 162.3 | 163.6 | 164.2 | 163.6 | 162.4 | 161.3 | 160.1 | 158.9 |
| 115°   | 179.8 | 181.0 | 182.2 | 183.4 | 184.6 | 185.2 | 186.1 | 187.8 | 189.5 | 191.3 | 193.0 |
| 117.5° | 198.3 | 199.7 | 201.1 | 202.5 | 203.9 | 204.6 | 205.2 | 206.4 | 207.5 | 208.7 | 209.9 |
| 120°   | 218.9 | 219.9 | 221.0 | 222.0 | 223.1 | 223.6 | 224.2 | 225.5 | 226.8 | 228.0 | 229.3 |
| 122.5° | 236.5 | 237.6 | 238.7 | 239.8 | 240.9 | 241.5 | 242.2 | 243.6 | 244.9 | 246.3 | 247.7 |
| 125°   | 254.3 | 255.2 | 256.1 | 257.0 | 257.9 | 258.4 | 259.1 | 260.4 | 261.7 | 263.0 | 264.3 |
| 127.5° | 270.6 | 271.6 | 272.5 | 273.5 | 274.4 | 274.9 | 275.4 | 276.5 | 277.5 | 278.6 | 279.6 |
| 130°   | 285.9 | 287.0 | 288.1 | 289.2 | 290.3 | 290.9 | 291.3 | 292.0 | 292.8 | 293.5 | 294.3 |
| 132.5° | 301.5 | 302.4 | 303.3 | 304.2 | 305.1 | 305.6 | 306.0 | 306.7 | 307.5 | 308.2 | 309.0 |
| 135°   | 314.7 | 315.8 | 316.9 | 318.0 | 319.1 | 319.7 | 320.0 | 320.6 | 321.3 | 321.9 | 322.5 |
| 137.5° | 328.4 | 329.2 | 330.1 | 330.9 | 331.8 | 332.2 | 332.5 | 333.2 | 333.9 | 334.6 | 335.3 |
| 140°   | 341.9 | 342.5 | 343.0 | 343.6 | 344.1 | 344.4 | 344.8 | 345.5 | 346.3 | 347.0 | 347.8 |
| 142.5° | 353.1 | 353.6 | 354.1 | 354.6 | 355.1 | 355.3 | 355.8 | 356.7 | 357.6 | 358.5 | 359.4 |
| 145°   | 365.0 | 364.9 | 364.9 | 364.8 | 364.7 | 364.7 | 365.3 | 366.5 | 367.6 | 368.8 | 370.0 |
| 147.5° | 375.3 | 375.1 | 374.9 | 374.7 | 374.5 | 374.4 | 375.0 | 376.2 | 377.3 | 378.5 | 379.7 |
| 150°   | 385.3 | 384.8 | 384.4 | 383.9 | 383.4 | 383.2 | 383.8 | 384.9 | 386.0 | 387.1 | 388.2 |
| 152.5° | 393.8 | 393.2 | 392.7 | 392.1 | 391.6 | 391.3 | 391.8 | 392.9 | 393.9 | 395.0 | 396.0 |
| 155°   | 401.9 | 401.3 | 400.7 | 400.0 | 399.4 | 399.1 | 399.5 | 400.4 | 401.2 | 402.1 | 402.9 |
| 157.5° | 408.5 | 407.9 | 407.4 | 406.8 | 406.3 | 406.0 | 406.3 | 406.9 | 407.6 | 408.2 | 408.8 |
| 160°   | 414.1 | 413.7 | 413.3 | 412.8 | 412.4 | 412.2 | 412.4 | 412.8 | 413.3 | 413.7 | 414.1 |
| 162.5° | 419.1 | 418.7 | 418.3 | 417.8 | 417.4 | 417.2 | 417.4 | 417.7 | 418.1 | 418.4 | 418.8 |
| 165°   | 423.5 | 423.1 | 422.7 | 422.2 | 421.8 | 421.6 | 421.7 | 421.9 | 422.2 | 422.4 | 422.6 |
| 167.5° | 426.9 | 426.5 | 426.1 | 425.7 | 425.3 | 425.1 | 425.2 | 425.4 | 425.6 | 425.8 | 426.0 |
| 170°   | 429.8 | 429.4 | 429.0 | 428.5 | 428.1 | 427.9 | 428.0 | 428.1 | 428.2 | 428.4 | 428.5 |
| 172.5° | 431.6 | 431.2 | 430.8 | 430.4 | 430.0 | 429.8 | 429.9 | 430.0 | 430.1 | 430.3 | 430.4 |
| 175°   | 433.2 | 432.7 | 432.2 | 431.7 | 431.2 | 431.0 | 431.1 | 431.2 | 431.3 | 431.5 | 431.6 |
| 177.5° | 433.8 | 433.3 | 432.8 | 432.3 | 431.8 | 431.6 | 431.6 | 431.7 | 431.8 | 431.8 | 431.9 |
| 180°   | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1333.9 | 1334.9 | 1336.9 | 1346.7 | 1351.7 | 1352.7 | 1348.7 | 1357.6 | 1360.6 | 1357.6 | 1355.6 |
| 5°     | 1397.1 | 1403.0 | 1414.8 | 1427.6 | 1426.7 | 1427.6 | 1433.6 | 1439.5 | 1441.5 | 1433.6 | 1436.5 |
| 7.5°   | 1452.3 | 1464.1 | 1477.0 | 1496.7 | 1496.7 | 1506.6 | 1510.5 | 1515.5 | 1527.3 | 1521.4 | 1519.4 |
| 10°    | 1515.5 | 1531.2 | 1554.9 | 1586.5 | 1587.5 | 1597.3 | 1607.2 | 1623.0 | 1627.9 | 1624.0 | 1626.0 |
| 12.5°  | 1594.4 | 1625.0 | 1626.9 | 1661.5 | 1677.3 | 1679.2 | 1695.0 | 1692.1 | 1701.9 | 1701.9 | 1718.7 |
| 15°    | 1628.9 | 1676.3 | 1702.9 | 1736.5 | 1746.3 | 1734.5 | 1747.3 | 1761.1 | 1762.1 | 1762.1 | 1761.1 |
| 17.5°  | 1691.1 | 1709.8 | 1736.5 | 1754.2 | 1758.2 | 1758.2 | 1759.1 | 1765.1 | 1761.1 | 1753.2 | 1759.1 |
| 20°    | 1703.9 | 1711.8 | 1721.7 | 1719.7 | 1721.7 | 1711.8 | 1701.9 | 1692.1 | 1693.0 | 1688.1 | 1702.9 |
| 22.5°  | 1680.2 | 1678.2 | 1655.6 | 1640.8 | 1640.8 | 1621.0 | 1602.3 | 1593.4 | 1584.5 | 1587.5 | 1592.4 |
| 25°    | 1621.0 | 1590.4 | 1562.8 | 1541.1 | 1536.2 | 1504.6 | 1478.9 | 1471.1 | 1456.3 | 1468.1 | 1470.1 |
| 27.5°  | 1526.3 | 1491.8 | 1447.4 | 1428.6 | 1403.0 | 1390.1 | 1372.4 | 1348.7 | 1318.1 | 1335.9 | 1332.9 |
| 30°    | 1424.7 | 1373.4 | 1336.9 | 1291.5 | 1251.0 | 1248.1 | 1214.5 | 1175.1 | 1159.3 | 1159.3 | 1168.2 |
| 32.5°  | 1311.2 | 1243.1 | 1189.9 | 1125.7 | 1086.3 | 1069.5 | 1029.0 | 989.6  | 998.5  | 968.9  | 979.7  |
| 35°    | 1179.0 | 1089.2 | 1022.1 | 960.0  | 930.4  | 910.7  | 858.4  | 836.7  | 813.0  | 799.2  | 824.8  |
| 37.5°  | 1052.7 | 949.1  | 863.3  | 795.2  | 784.4  | 748.8  | 713.3  | 699.5  | 685.7  | 691.6  | 690.6  |
| 40°    | 898.8  | 807.1  | 730.1  | 676.8  | 658.1  | 641.3  | 617.6  | 600.9  | 592.0  | 596.9  | 597.9  |
| 42.5°  | 759.7  | 682.7  | 625.5  | 588.0  | 572.2  | 560.4  | 548.6  | 534.7  | 531.8  | 531.8  | 535.7  |
| 45°    | 652.2  | 589.0  | 550.5  | 519.9  | 511.1  | 502.2  | 493.3  | 487.4  | 485.4  | 481.5  | 484.4  |
| 47.5°  | 566.3  | 516.0  | 492.3  | 469.6  | 459.8  | 457.8  | 449.9  | 446.9  | 443.0  | 442.0  | 443.0  |
| 50°    | 494.3  | 462.7  | 441.0  | 428.2  | 421.3  | 418.3  | 414.4  | 408.5  | 406.5  | 411.4  | 409.4  |
| 52.5°  | 444.0  | 414.4  | 402.5  | 389.7  | 385.8  | 381.8  | 375.9  | 376.9  | 375.9  | 373.9  | 373.9  |
| 55°    | 393.7  | 374.9  | 363.1  | 353.2  | 352.2  | 348.3  | 343.3  | 341.4  | 340.4  | 338.4  | 341.4  |
| 57.5°  | 353.2  | 338.4  | 327.6  | 318.7  | 314.7  | 314.7  | 309.8  | 305.9  | 305.9  | 304.9  | 305.9  |
| 60°    | 312.8  | 298.0  | 291.1  | 282.2  | 279.2  | 278.2  | 275.3  | 273.3  | 270.3  | 270.3  | 270.3  |
| 62.5°  | 275.3  | 263.4  | 255.5  | 247.6  | 248.6  | 243.7  | 239.7  | 237.8  | 237.8  | 238.8  | 238.8  |
| 65°    | 239.7  | 231.9  | 222.0  | 215.1  | 213.1  | 212.1  | 210.2  | 209.2  | 206.2  | 208.2  | 208.2  |
| 67.5°  | 207.2  | 196.3  | 190.4  | 187.5  | 184.5  | 183.5  | 181.5  | 179.6  | 178.6  | 177.6  | 179.6  |
| 70°    | 174.6  | 165.8  | 160.8  | 158.8  | 155.9  | 154.9  | 153.9  | 151.0  | 151.9  | 152.9  | 153.9  |
| 72.5°  | 145.0  | 137.1  | 136.2  | 130.2  | 130.2  | 130.2  | 126.3  | 128.3  | 127.3  | 125.3  | 127.3  |
| 75°    | 114.4  | 110.5  | 108.5  | 105.6  | 106.6  | 105.6  | 104.6  | 101.6  | 101.6  | 102.6  | 103.6  |
| 77.5°  | 90.8   | 86.8   | 85.8   | 82.9   | 80.9   | 82.9   | 80.9   | 79.9   | 79.9   | 80.9   | 80.9   |
| 80°    | 67.1   | 65.1   | 62.2   | 62.2   | 62.2   | 61.2   | 61.2   | 61.2   | 60.2   | 59.2   | 60.2   |
| 82.5°  | 44.4   | 44.4   | 43.4   | 42.4   | 43.4   | 41.4   | 42.4   | 42.4   | 42.4   | 42.4   | 42.4   |
| 85°    | 28.6   | 27.6   | 27.6   | 26.6   | 26.6   | 26.6   | 27.6   | 25.7   | 25.7   | 26.6   | 26.6   |
| 87.5°  | 12.8   | 12.8   | 12.8   | 13.8   | 12.8   | 12.8   | 12.8   | 13.8   | 12.8   | 12.8   | 12.8   |
| 90°    | 6.6    | 7.0    | 7.3    | 7.6    | 7.8    | 7.9    | 8.0    | 8.1    | 8.3    | 8.4    | 8.3    |
| 92.5°  | 7.6    | 7.8    | 7.9    | 8.0    | 8.1    | 8.1    | 8.2    | 8.3    | 8.3    | 8.4    | 8.3    |
| 95°    | 12.6   | 12.9   | 13.3   | 13.6   | 13.8   | 13.8   | 13.7   | 13.6   | 13.5   | 13.4   | 13.5   |
| 97.5°  | 16.2   | 16.4   | 16.6   | 16.8   | 16.9   | 16.9   | 17.0   | 17.1   | 17.1   | 17.2   | 17.1   |
| 100°   | 18.4   | 18.9   | 19.5   | 20.0   | 20.3   | 20.4   | 20.5   | 20.7   | 20.8   | 21.0   | 20.8   |
| 102.5° | 19.3   | 20.0   | 20.8   | 21.5   | 21.9   | 22.0   | 22.2   | 22.4   | 22.6   | 22.8   | 22.6   |
| 105°   | 19.9   | 20.6   | 21.4   | 22.1   | 22.5   | 22.6   | 22.9   | 23.2   | 23.5   | 23.8   | 23.5   |
| 107.5° | 20.5   | 21.2   | 22.0   | 22.7   | 23.1   | 23.2   | 23.5   | 23.8   | 24.1   | 24.4   | 24.1   |
| 110°   | 47.8   | 40.8   | 33.9   | 27.0   | 23.5   | 23.6   | 23.9   | 24.2   | 24.4   | 24.7   | 24.4   |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 128.9 | 99.0  | 69.0  | 39.1  | 24.1  | 24.2  | 24.4  | 24.6  | 24.8  | 25.0  | 24.8  |
| 115°   | 160.8 | 128.6 | 96.5  | 64.3  | 48.2  | 45.7  | 40.7  | 35.6  | 30.6  | 25.6  | 30.6  |
| 117.5° | 199.9 | 190.0 | 180.0 | 170.1 | 165.1 | 156.0 | 137.8 | 119.6 | 101.4 | 83.2  | 101.4 |
| 120°   | 230.1 | 230.9 | 231.8 | 232.6 | 233.0 | 228.3 | 218.9 | 209.6 | 200.2 | 190.8 | 200.2 |
| 122.5° | 248.1 | 248.5 | 249.0 | 249.4 | 249.6 | 249.6 | 249.7 | 249.8 | 249.8 | 249.9 | 249.8 |
| 125°   | 264.8 | 265.3 | 265.8 | 266.3 | 266.5 | 266.6 | 266.8 | 267.0 | 267.2 | 267.4 | 267.2 |
| 127.5° | 280.3 | 281.0 | 281.7 | 282.4 | 282.8 | 282.8 | 282.9 | 283.0 | 283.0 | 283.1 | 283.0 |
| 130°   | 295.1 | 295.9 | 296.6 | 297.4 | 297.8 | 297.8 | 297.7 | 297.6 | 297.6 | 297.5 | 297.6 |
| 132.5° | 309.6 | 310.2 | 310.9 | 311.5 | 311.8 | 311.8 | 311.7 | 311.6 | 311.6 | 311.5 | 311.6 |
| 135°   | 323.2 | 323.9 | 324.6 | 325.3 | 325.6 | 325.5 | 325.4 | 325.3 | 325.1 | 325.0 | 325.1 |
| 137.5° | 336.0 | 336.7 | 337.4 | 338.1 | 338.4 | 338.3 | 338.1 | 337.9 | 337.7 | 337.5 | 337.7 |
| 140°   | 348.4 | 349.0 | 349.7 | 350.3 | 350.6 | 350.4 | 350.1 | 349.8 | 349.4 | 349.1 | 349.4 |
| 142.5° | 360.0 | 360.5 | 361.1 | 361.6 | 361.9 | 361.7 | 361.4 | 361.0 | 360.7 | 360.3 | 360.7 |
| 145°   | 370.5 | 371.0 | 371.5 | 372.0 | 372.2 | 372.0 | 371.7 | 371.3 | 371.0 | 370.6 | 371.0 |
| 147.5° | 380.1 | 380.4 | 380.8 | 381.1 | 381.3 | 381.2 | 380.9 | 380.6 | 380.3 | 380.0 | 380.3 |
| 150°   | 388.6 | 389.0 | 389.4 | 389.8 | 390.0 | 389.8 | 389.5 | 389.2 | 388.8 | 388.5 | 388.8 |
| 152.5° | 396.4 | 396.8 | 397.3 | 397.7 | 397.9 | 397.7 | 397.2 | 396.7 | 396.2 | 395.7 | 396.2 |
| 155°   | 403.3 | 403.7 | 404.1 | 404.5 | 404.7 | 404.4 | 403.9 | 403.3 | 402.8 | 402.2 | 402.8 |
| 157.5° | 409.3 | 409.8 | 410.3 | 410.8 | 411.0 | 410.7 | 410.2 | 409.6 | 409.1 | 408.5 | 409.1 |
| 160°   | 414.5 | 414.9 | 415.4 | 415.8 | 416.0 | 415.8 | 415.3 | 414.8 | 414.3 | 413.8 | 414.3 |
| 162.5° | 419.3 | 419.8 | 420.3 | 420.8 | 421.0 | 420.7 | 420.1 | 419.4 | 418.8 | 418.2 | 418.8 |
| 165°   | 423.1 | 423.6 | 424.1 | 424.6 | 424.8 | 424.6 | 424.1 | 423.6 | 423.1 | 422.6 | 423.1 |
| 167.5° | 426.5 | 427.0 | 427.5 | 428.0 | 428.2 | 427.9 | 427.3 | 426.6 | 426.0 | 425.4 | 426.0 |
| 170°   | 429.0 | 429.5 | 430.0 | 430.5 | 430.7 | 430.4 | 429.8 | 429.1 | 428.5 | 427.9 | 428.5 |
| 172.5° | 430.9 | 431.4 | 431.9 | 432.4 | 432.6 | 432.3 | 431.7 | 431.0 | 430.4 | 429.8 | 430.4 |
| 175°   | 432.1 | 432.6 | 433.1 | 433.6 | 433.8 | 433.5 | 432.8 | 432.1 | 431.4 | 430.7 | 431.4 |
| 177.5° | 432.4 | 432.9 | 433.4 | 433.9 | 434.1 | 433.8 | 433.2 | 432.5 | 431.9 | 431.3 | 431.9 |
| 180°   | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1360.6 | 1353.6 | 1347.7 | 1348.7 | 1353.6 | 1349.7 | 1339.8 | 1327.0 | 1322.1 | 1316.2 | 1322.1 |
| 5°     | 1442.4 | 1436.5 | 1424.7 | 1425.7 | 1422.7 | 1418.8 | 1403.0 | 1383.2 | 1383.2 | 1367.5 | 1365.5 |
| 7.5°   | 1523.3 | 1514.5 | 1506.6 | 1504.6 | 1493.7 | 1485.9 | 1472.0 | 1444.4 | 1433.6 | 1414.8 | 1404.0 |
| 10°    | 1614.1 | 1607.2 | 1598.3 | 1587.5 | 1581.6 | 1567.7 | 1545.0 | 1504.6 | 1484.9 | 1459.2 | 1440.5 |
| 12.5°  | 1705.9 | 1704.9 | 1685.1 | 1663.4 | 1662.5 | 1640.8 | 1625.0 | 1570.7 | 1544.1 | 1509.5 | 1465.1 |
| 15°    | 1764.1 | 1759.1 | 1748.3 | 1737.4 | 1740.4 | 1716.7 | 1681.2 | 1617.1 | 1599.3 | 1557.9 | 1510.5 |
| 17.5°  | 1763.1 | 1763.1 | 1760.1 | 1758.2 | 1755.2 | 1748.3 | 1728.6 | 1686.1 | 1657.5 | 1605.2 | 1560.8 |
| 20°    | 1706.9 | 1719.7 | 1722.6 | 1721.7 | 1731.5 | 1736.5 | 1735.5 | 1708.8 | 1686.1 | 1639.8 | 1594.4 |
| 22.5°  | 1594.4 | 1624.0 | 1636.8 | 1644.7 | 1665.4 | 1676.3 | 1701.9 | 1692.1 | 1686.1 | 1651.6 | 1613.1 |
| 25°    | 1489.8 | 1499.7 | 1538.1 | 1540.1 | 1568.7 | 1595.4 | 1621.0 | 1637.8 | 1659.5 | 1646.7 | 1614.1 |
| 27.5°  | 1354.6 | 1377.3 | 1404.9 | 1425.7 | 1431.6 | 1485.9 | 1528.3 | 1559.8 | 1609.2 | 1613.1 | 1602.3 |
| 30°    | 1201.7 | 1212.6 | 1257.9 | 1285.6 | 1317.1 | 1356.6 | 1417.8 | 1472.0 | 1516.4 | 1556.9 | 1570.7 |
| 32.5°  | 1015.2 | 1059.6 | 1086.3 | 1119.8 | 1147.4 | 1217.5 | 1292.5 | 1362.5 | 1413.8 | 1481.9 | 1511.5 |
| 35°    | 844.5  | 879.1  | 924.5  | 938.3  | 988.6  | 1047.8 | 1145.5 | 1235.2 | 1313.2 | 1382.3 | 1442.4 |
| 37.5°  | 703.5  | 731.1  | 779.4  | 801.1  | 830.7  | 906.7  | 988.6  | 1100.1 | 1193.8 | 1278.7 | 1353.6 |
| 40°    | 606.8  | 627.5  | 664.0  | 670.9  | 695.6  | 764.6  | 830.7  | 935.3  | 1059.6 | 1174.1 | 1256.0 |
| 42.5°  | 540.7  | 550.5  | 575.2  | 584.1  | 599.9  | 646.2  | 705.4  | 804.1  | 919.5  | 1037.9 | 1153.4 |
| 45°    | 493.3  | 500.2  | 515.0  | 522.9  | 542.6  | 563.4  | 611.7  | 690.6  | 781.4  | 900.8  | 1025.1 |
| 47.5°  | 450.9  | 459.8  | 465.7  | 470.6  | 481.5  | 504.2  | 535.7  | 593.9  | 680.8  | 790.3  | 910.7  |
| 50°    | 415.4  | 418.3  | 429.2  | 430.2  | 437.1  | 451.9  | 481.5  | 517.0  | 586.1  | 674.8  | 791.3  |
| 52.5°  | 379.8  | 382.8  | 389.7  | 396.6  | 399.6  | 411.4  | 431.2  | 460.8  | 512.1  | 582.1  | 685.7  |
| 55°    | 344.3  | 348.3  | 355.2  | 360.1  | 363.1  | 372.9  | 384.8  | 413.4  | 453.8  | 503.2  | 588.0  |
| 57.5°  | 308.8  | 317.7  | 319.7  | 322.6  | 327.6  | 338.4  | 349.3  | 366.0  | 397.6  | 443.0  | 505.2  |
| 60°    | 275.3  | 278.2  | 285.1  | 288.1  | 293.0  | 298.9  | 312.8  | 325.6  | 348.3  | 383.8  | 440.0  |
| 62.5°  | 240.7  | 247.6  | 250.6  | 253.6  | 257.5  | 264.4  | 273.3  | 287.1  | 306.8  | 335.5  | 379.8  |
| 65°    | 211.1  | 212.1  | 218.0  | 222.0  | 225.9  | 230.9  | 239.7  | 252.6  | 264.4  | 291.1  | 323.6  |
| 67.5°  | 182.5  | 184.5  | 186.5  | 190.4  | 195.4  | 200.3  | 208.2  | 215.1  | 229.9  | 247.6  | 273.3  |
| 70°    | 154.9  | 154.9  | 159.8  | 162.8  | 161.8  | 167.7  | 173.6  | 181.5  | 192.4  | 209.2  | 229.9  |
| 72.5°  | 130.2  | 129.2  | 133.2  | 134.2  | 136.2  | 140.1  | 144.0  | 151.9  | 157.9  | 170.7  | 186.5  |
| 75°    | 103.6  | 105.6  | 107.5  | 107.5  | 110.5  | 113.5  | 117.4  | 121.4  | 128.3  | 136.2  | 148.0  |
| 77.5°  | 81.9   | 81.9   | 83.9   | 84.8   | 87.8   | 86.8   | 90.8   | 94.7   | 99.6   | 106.6  | 115.4  |
| 80°    | 60.2   | 62.2   | 62.2   | 62.2   | 63.1   | 64.1   | 68.1   | 71.0   | 74.0   | 78.9   | 82.9   |
| 82.5°  | 42.4   | 42.4   | 44.4   | 44.4   | 44.4   | 46.4   | 46.4   | 47.4   | 49.3   | 52.3   | 55.3   |
| 85°    | 26.6   | 26.6   | 26.6   | 27.6   | 26.6   | 27.6   | 29.6   | 28.6   | 29.6   | 31.6   | 31.6   |
| 87.5°  | 12.8   | 12.8   | 12.8   | 12.8   | 12.8   | 13.8   | 12.8   | 13.8   | 14.8   | 14.8   | 14.8   |
| 90°    | 8.1    | 8.0    | 7.9    | 7.8    | 7.6    | 7.3    | 7.0    | 6.6    | 6.3    | 5.7    | 5.2    |
| 92.5°  | 8.3    | 8.2    | 8.1    | 8.1    | 8.0    | 7.9    | 7.8    | 7.6    | 7.5    | 7.3    | 7.1    |
| 95°    | 13.6   | 13.7   | 13.8   | 13.8   | 13.6   | 13.3   | 12.9   | 12.6   | 12.2   | 11.7   | 11.2   |
| 97.5°  | 17.1   | 17.0   | 16.9   | 16.9   | 16.8   | 16.6   | 16.4   | 16.2   | 16.0   | 14.9   | 13.7   |
| 100°   | 20.7   | 20.5   | 20.4   | 20.3   | 20.0   | 19.5   | 18.9   | 18.4   | 17.8   | 16.6   | 15.4   |
| 102.5° | 22.4   | 22.2   | 22.0   | 21.9   | 21.5   | 20.8   | 20.0   | 19.3   | 18.5   | 31.1   | 43.8   |
| 105°   | 23.2   | 22.9   | 22.6   | 22.5   | 22.1   | 21.4   | 20.6   | 19.9   | 19.1   | 38.1   | 57.1   |
| 107.5° | 23.8   | 23.5   | 23.2   | 23.1   | 22.7   | 22.0   | 21.2   | 20.5   | 19.7   | 43.1   | 66.5   |
| 110°   | 24.2   | 23.9   | 23.6   | 23.5   | 27.0   | 33.9   | 40.8   | 47.8   | 54.7   | 74.8   | 94.9   |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 24.6  | 24.4  | 24.2  | 24.1   | 39.1  | 69.0  | 99.0  | 128.9 | 158.9 | 160.1 | 161.3 |
| 115°   | 35.6  | 40.7  | 45.7  | 48.2   | 64.3  | 96.5  | 128.6 | 160.8 | 193.0 | 191.3 | 189.5 |
| 117.5° | 119.6 | 137.8 | 156.0 | 165.1  | 170.1 | 180.0 | 190.0 | 199.9 | 209.9 | 208.7 | 207.5 |
| 120°   | 209.6 | 218.9 | 228.3 | 233.0  | 232.6 | 231.8 | 230.9 | 230.1 | 229.3 | 228.0 | 226.8 |
| 122.5° | 249.8 | 249.7 | 249.6 | 249.6  | 249.4 | 249.0 | 248.5 | 248.1 | 247.7 | 246.3 | 244.9 |
| 125°   | 267.0 | 266.8 | 266.6 | 266.5  | 266.3 | 265.8 | 265.3 | 264.8 | 264.3 | 263.0 | 261.7 |
| 127.5° | 283.0 | 282.9 | 282.8 | 282.8  | 282.4 | 281.7 | 281.0 | 280.3 | 279.6 | 278.6 | 277.5 |
| 130°   | 297.6 | 297.7 | 297.8 | 297.8  | 297.4 | 296.6 | 295.9 | 295.1 | 294.3 | 293.5 | 292.8 |
| 132.5° | 311.6 | 311.7 | 311.8 | 311.8  | 311.5 | 310.9 | 310.2 | 309.6 | 309.0 | 308.2 | 307.5 |
| 135°   | 325.3 | 325.4 | 325.5 | 325.6  | 325.3 | 324.6 | 323.9 | 323.2 | 322.5 | 321.9 | 321.3 |
| 137.5° | 337.9 | 338.1 | 338.3 | 338.4  | 338.1 | 337.4 | 336.7 | 336.0 | 335.3 | 334.6 | 333.9 |
| 140°   | 349.8 | 350.1 | 350.4 | 350.6  | 350.3 | 349.7 | 349.0 | 348.4 | 347.8 | 347.0 | 346.3 |
| 142.5° | 361.0 | 361.4 | 361.7 | 361.9  | 361.6 | 361.1 | 360.5 | 360.0 | 359.4 | 358.5 | 357.6 |
| 145°   | 371.3 | 371.7 | 372.0 | 372.2  | 372.0 | 371.5 | 371.0 | 370.5 | 370.0 | 368.8 | 367.6 |
| 147.5° | 380.6 | 380.9 | 381.2 | 381.3  | 381.1 | 380.8 | 380.4 | 380.1 | 379.7 | 378.5 | 377.3 |
| 150°   | 389.2 | 389.5 | 389.8 | 390.0  | 389.8 | 389.4 | 389.0 | 388.6 | 388.2 | 387.1 | 386.0 |
| 152.5° | 396.7 | 397.2 | 397.7 | 397.9  | 397.7 | 397.3 | 396.8 | 396.4 | 396.0 | 395.0 | 393.9 |
| 155°   | 403.3 | 403.9 | 404.4 | 404.7  | 404.5 | 404.1 | 403.7 | 403.3 | 402.9 | 402.1 | 401.2 |
| 157.5° | 409.6 | 410.2 | 410.7 | 411.0  | 410.8 | 410.3 | 409.8 | 409.3 | 408.8 | 408.2 | 407.6 |
| 160°   | 414.8 | 415.3 | 415.8 | 416.0  | 415.8 | 415.4 | 414.9 | 414.5 | 414.1 | 413.7 | 413.3 |
| 162.5° | 419.4 | 420.1 | 420.7 | 421.0  | 420.8 | 420.3 | 419.8 | 419.3 | 418.8 | 418.4 | 418.1 |
| 165°   | 423.6 | 424.1 | 424.6 | 424.8  | 424.6 | 424.1 | 423.6 | 423.1 | 422.6 | 422.4 | 422.2 |
| 167.5° | 426.6 | 427.3 | 427.9 | 428.2  | 428.0 | 427.5 | 427.0 | 426.5 | 426.0 | 425.8 | 425.6 |
| 170°   | 429.1 | 429.8 | 430.4 | 430.7  | 430.5 | 430.0 | 429.5 | 429.0 | 428.5 | 428.4 | 428.2 |
| 172.5° | 431.0 | 431.7 | 432.3 | 432.6  | 432.4 | 431.9 | 431.4 | 430.9 | 430.4 | 430.3 | 430.1 |
| 175°   | 432.1 | 432.8 | 433.5 | 433.8  | 433.6 | 433.1 | 432.6 | 432.1 | 431.6 | 431.5 | 431.3 |
| 177.5° | 432.5 | 433.2 | 433.8 | 434.1  | 433.9 | 433.4 | 432.9 | 432.4 | 431.9 | 431.8 | 431.8 |
| 180°   | 432.3 | 432.3 | 432.3 | 432.3  | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1317.1 | 1312.2 | 1309.2 | 1311.2 | 1305.3 | 1290.5 | 1290.5 | 1295.4 | 1289.5 | 1283.6 | 1274.7 |
| 5°     | 1353.6 | 1343.8 | 1337.9 | 1336.9 | 1323.1 | 1299.4 | 1294.4 | 1289.5 | 1276.7 | 1262.9 | 1248.1 |
| 7.5°   | 1389.2 | 1371.4 | 1361.5 | 1354.6 | 1334.9 | 1304.3 | 1291.5 | 1280.6 | 1259.9 | 1239.2 | 1220.5 |
| 10°    | 1418.8 | 1393.1 | 1381.3 | 1370.4 | 1344.8 | 1306.3 | 1285.6 | 1265.8 | 1239.2 | 1212.6 | 1188.9 |
| 12.5°  | 1442.4 | 1412.8 | 1398.0 | 1382.3 | 1350.7 | 1300.4 | 1274.7 | 1243.1 | 1216.5 | 1181.0 | 1157.3 |
| 15°    | 1481.9 | 1420.7 | 1406.9 | 1392.1 | 1359.6 | 1290.5 | 1258.9 | 1223.4 | 1186.9 | 1139.5 | 1113.9 |
| 17.5°  | 1513.5 | 1431.6 | 1430.6 | 1399.0 | 1356.6 | 1286.6 | 1238.2 | 1191.8 | 1152.4 | 1105.0 | 1064.6 |
| 20°    | 1532.2 | 1448.4 | 1432.6 | 1400.0 | 1346.7 | 1259.9 | 1209.6 | 1158.3 | 1115.9 | 1058.6 | 1018.2 |
| 22.5°  | 1548.0 | 1472.0 | 1430.6 | 1391.1 | 1326.0 | 1251.0 | 1177.0 | 1128.7 | 1070.5 | 1008.3 | 969.8  |
| 25°    | 1553.9 | 1477.0 | 1433.6 | 1388.2 | 1311.2 | 1225.4 | 1141.5 | 1089.2 | 1024.1 | 967.9  | 915.6  |
| 27.5°  | 1554.9 | 1476.0 | 1422.7 | 1375.4 | 1290.5 | 1191.8 | 1106.0 | 1050.8 | 978.7  | 913.6  | 861.3  |
| 30°    | 1545.0 | 1465.1 | 1416.8 | 1365.5 | 1270.8 | 1161.3 | 1062.6 | 1001.4 | 924.5  | 859.3  | 805.1  |
| 32.5°  | 1515.5 | 1443.4 | 1404.0 | 1347.7 | 1245.1 | 1118.8 | 1021.2 | 953.1  | 872.2  | 808.0  | 755.8  |
| 35°    | 1466.1 | 1416.8 | 1373.4 | 1321.1 | 1211.6 | 1079.4 | 979.7  | 899.8  | 817.9  | 756.7  | 707.4  |
| 37.5°  | 1404.9 | 1378.3 | 1337.9 | 1286.6 | 1173.1 | 1043.8 | 933.3  | 844.5  | 762.7  | 703.5  | 655.1  |
| 40°    | 1322.1 | 1329.0 | 1289.5 | 1243.1 | 1127.7 | 995.5  | 873.2  | 788.3  | 711.4  | 656.1  | 608.7  |
| 42.5°  | 1232.3 | 1260.9 | 1238.2 | 1193.8 | 1077.4 | 942.2  | 828.8  | 735.0  | 660.0  | 602.8  | 563.4  |
| 45°    | 1135.6 | 1184.9 | 1171.1 | 1138.6 | 1025.1 | 886.0  | 765.6  | 674.8  | 608.7  | 553.5  | 519.0  |
| 47.5°  | 1030.0 | 1100.1 | 1100.1 | 1076.4 | 966.9  | 829.7  | 711.4  | 618.6  | 553.5  | 514.0  | 480.5  |
| 50°    | 922.5  | 1001.4 | 1014.2 | 998.5  | 901.8  | 765.6  | 645.3  | 561.4  | 505.2  | 466.7  | 442.0  |
| 52.5°  | 810.0  | 901.8  | 925.5  | 917.6  | 832.7  | 704.4  | 591.0  | 509.1  | 457.8  | 424.2  | 402.5  |
| 55°    | 702.5  | 809.0  | 834.7  | 837.6  | 758.7  | 637.4  | 530.8  | 458.8  | 409.4  | 386.8  | 368.0  |
| 57.5°  | 600.9  | 703.5  | 732.1  | 737.0  | 683.7  | 576.2  | 474.6  | 411.4  | 367.0  | 348.3  | 333.5  |
| 60°    | 514.0  | 599.9  | 637.4  | 648.2  | 601.8  | 505.2  | 422.3  | 361.1  | 327.6  | 309.8  | 296.0  |
| 62.5°  | 443.0  | 512.1  | 551.5  | 554.5  | 533.8  | 443.0  | 368.0  | 316.7  | 288.1  | 272.3  | 265.4  |
| 65°    | 373.9  | 436.1  | 459.8  | 471.6  | 454.8  | 383.8  | 317.7  | 275.3  | 252.6  | 238.8  | 231.9  |
| 67.5°  | 318.7  | 358.1  | 377.9  | 393.7  | 376.9  | 323.6  | 270.3  | 235.8  | 219.0  | 205.2  | 201.3  |
| 70°    | 261.5  | 294.0  | 308.8  | 324.6  | 309.8  | 269.3  | 230.9  | 199.3  | 184.5  | 173.6  | 168.7  |
| 72.5°  | 209.2  | 234.8  | 248.6  | 258.5  | 249.6  | 216.1  | 184.5  | 162.8  | 151.9  | 144.0  | 141.1  |
| 75°    | 165.8  | 183.5  | 191.4  | 198.3  | 194.4  | 168.7  | 149.0  | 131.2  | 121.4  | 114.4  | 112.5  |
| 77.5°  | 126.3  | 139.1  | 148.0  | 150.0  | 145.0  | 128.3  | 111.5  | 100.6  | 92.7   | 88.8   | 86.8   |
| 80°    | 89.8   | 97.7   | 102.6  | 105.6  | 100.6  | 93.7   | 81.9   | 74.0   | 67.1   | 62.2   | 61.2   |
| 82.5°  | 60.2   | 64.1   | 68.1   | 67.1   | 65.1   | 59.2   | 52.3   | 48.3   | 45.4   | 41.4   | 41.4   |
| 85°    | 34.5   | 35.5   | 37.5   | 38.5   | 37.5   | 33.5   | 29.6   | 27.6   | 25.7   | 22.7   | 22.7   |
| 87.5°  | 14.8   | 15.8   | 15.8   | 16.8   | 14.8   | 14.8   | 12.8   | 10.9   | 10.9   | 9.9    | 8.9    |
| 90°    | 4.6    | 4.1    | 3.8    | 3.4    | 2.6    | 1.9    | 1.1    | 0.3    | 1.1    | 1.9    | 2.6    |
| 92.5°  | 6.9    | 6.7    | 6.6    | 6.7    | 7.0    | 7.3    | 7.5    | 7.8    | 7.5    | 7.3    | 7.0    |
| 95°    | 10.7   | 10.2   | 10.0   | 11.1   | 13.4   | 15.7   | 18.0   | 20.3   | 18.0   | 15.7   | 13.4   |
| 97.5°  | 12.6   | 11.5   | 10.9   | 13.8   | 19.5   | 25.2   | 30.9   | 36.6   | 30.9   | 25.2   | 19.5   |
| 100°   | 14.3   | 13.1   | 12.5   | 17.3   | 26.8   | 36.3   | 45.9   | 55.4   | 45.9   | 36.3   | 26.8   |
| 102.5° | 56.4   | 69.1   | 75.4   | 75.5   | 75.6   | 75.7   | 75.9   | 76.0   | 75.9   | 75.7   | 75.6   |
| 105°   | 76.0   | 95.0   | 104.5  | 103.5  | 101.4  | 99.3   | 97.2   | 95.1   | 97.2   | 99.3   | 101.4  |
| 107.5° | 90.0   | 113.4  | 125.1  | 124.2  | 122.5  | 120.8  | 119.0  | 117.3  | 119.0  | 120.8  | 122.5  |
| 110°   | 115.0  | 135.1  | 145.1  | 144.4  | 142.9  | 141.5  | 140.0  | 138.6  | 140.0  | 141.5  | 142.9  |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 162.4 | 163.6 | 164.2  | 163.6 | 162.3 | 161.1 | 159.8 | 158.6 | 159.8 | 161.1 | 162.3 |
| 115°   | 187.8 | 186.1 | 185.2  | 184.6 | 183.4 | 182.2 | 181.0 | 179.8 | 181.0 | 182.2 | 183.4 |
| 117.5° | 206.4 | 205.2 | 204.6  | 203.9 | 202.5 | 201.1 | 199.7 | 198.3 | 199.7 | 201.1 | 202.5 |
| 120°   | 225.5 | 224.2 | 223.6  | 223.1 | 222.0 | 221.0 | 219.9 | 218.9 | 219.9 | 221.0 | 222.0 |
| 122.5° | 243.6 | 242.2 | 241.5  | 240.9 | 239.8 | 238.7 | 237.6 | 236.5 | 237.6 | 238.7 | 239.8 |
| 125°   | 260.4 | 259.1 | 258.4  | 257.9 | 257.0 | 256.1 | 255.2 | 254.3 | 255.2 | 256.1 | 257.0 |
| 127.5° | 276.5 | 275.4 | 274.9  | 274.4 | 273.5 | 272.5 | 271.6 | 270.6 | 271.6 | 272.5 | 273.5 |
| 130°   | 292.0 | 291.3 | 290.9  | 290.3 | 289.2 | 288.1 | 287.0 | 285.9 | 287.0 | 288.1 | 289.2 |
| 132.5° | 306.7 | 306.0 | 305.6  | 305.1 | 304.2 | 303.3 | 302.4 | 301.5 | 302.4 | 303.3 | 304.2 |
| 135°   | 320.6 | 320.0 | 319.7  | 319.1 | 318.0 | 316.9 | 315.8 | 314.7 | 315.8 | 316.9 | 318.0 |
| 137.5° | 333.2 | 332.5 | 332.2  | 331.8 | 330.9 | 330.1 | 329.2 | 328.4 | 329.2 | 330.1 | 330.9 |
| 140°   | 345.5 | 344.8 | 344.4  | 344.1 | 343.6 | 343.0 | 342.5 | 341.9 | 342.5 | 343.0 | 343.6 |
| 142.5° | 356.7 | 355.8 | 355.3  | 355.1 | 354.6 | 354.1 | 353.6 | 353.1 | 353.6 | 354.1 | 354.6 |
| 145°   | 366.5 | 365.3 | 364.7  | 364.7 | 364.8 | 364.9 | 364.9 | 365.0 | 364.9 | 364.9 | 364.8 |
| 147.5° | 376.2 | 375.0 | 374.4  | 374.5 | 374.7 | 374.9 | 375.1 | 375.3 | 375.1 | 374.9 | 374.7 |
| 150°   | 384.9 | 383.8 | 383.2  | 383.4 | 383.9 | 384.4 | 384.8 | 385.3 | 384.8 | 384.4 | 383.9 |
| 152.5° | 392.9 | 391.8 | 391.3  | 391.6 | 392.1 | 392.7 | 393.2 | 393.8 | 393.2 | 392.7 | 392.1 |
| 155°   | 400.4 | 399.5 | 399.1  | 399.4 | 400.0 | 400.7 | 401.3 | 401.9 | 401.3 | 400.7 | 400.0 |
| 157.5° | 406.9 | 406.3 | 406.0  | 406.3 | 406.8 | 407.4 | 407.9 | 408.5 | 407.9 | 407.4 | 406.8 |
| 160°   | 412.8 | 412.4 | 412.2  | 412.4 | 412.8 | 413.3 | 413.7 | 414.1 | 413.7 | 413.3 | 412.8 |
| 162.5° | 417.7 | 417.4 | 417.2  | 417.4 | 417.8 | 418.3 | 418.7 | 419.1 | 418.7 | 418.3 | 417.8 |
| 165°   | 421.9 | 421.7 | 421.6  | 421.8 | 422.2 | 422.7 | 423.1 | 423.5 | 423.1 | 422.7 | 422.2 |
| 167.5° | 425.4 | 425.2 | 425.1  | 425.3 | 425.7 | 426.1 | 426.5 | 426.9 | 426.5 | 426.1 | 425.7 |
| 170°   | 428.1 | 428.0 | 427.9  | 428.1 | 428.5 | 429.0 | 429.4 | 429.8 | 429.4 | 429.0 | 428.5 |
| 172.5° | 430.0 | 429.9 | 429.8  | 430.0 | 430.4 | 430.8 | 431.2 | 431.6 | 431.2 | 430.8 | 430.4 |
| 175°   | 431.2 | 431.1 | 431.0  | 431.2 | 431.7 | 432.2 | 432.7 | 433.2 | 432.7 | 432.2 | 431.7 |
| 177.5° | 431.7 | 431.6 | 431.6  | 431.8 | 432.3 | 432.8 | 433.3 | 433.8 | 433.3 | 432.8 | 432.3 |
| 180°   | 432.3 | 432.3 | 432.3  | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1269.8 | 1274.7 | 1273.7 | 1263.9 | 1253.0 | 1244.1 | 1227.4 | 1229.3 | 1223.4 | 1224.4 | 1230.3 |
| 5°     | 1238.2 | 1238.2 | 1234.3 | 1220.5 | 1202.7 | 1192.8 | 1174.1 | 1169.1 | 1157.3 | 1156.3 | 1155.3 |
| 7.5°   | 1204.7 | 1199.7 | 1194.8 | 1175.1 | 1153.4 | 1137.6 | 1111.9 | 1106.0 | 1094.2 | 1086.3 | 1082.3 |
| 10°    | 1165.2 | 1158.3 | 1148.4 | 1125.7 | 1099.1 | 1079.4 | 1052.7 | 1044.8 | 1022.1 | 1012.3 | 1006.4 |
| 12.5°  | 1121.8 | 1117.8 | 1102.1 | 1083.3 | 1039.9 | 1018.2 | 979.7  | 987.6  | 964.9  | 945.2  | 942.2  |
| 15°    | 1078.4 | 1063.6 | 1054.7 | 1024.1 | 971.8  | 962.0  | 931.4  | 915.6  | 894.9  | 879.1  | 879.1  |
| 17.5°  | 1036.0 | 1013.3 | 993.5  | 961.0  | 922.5  | 894.9  | 872.2  | 864.3  | 838.6  | 822.8  | 819.9  |
| 20°    | 979.7  | 954.1  | 949.1  | 902.8  | 876.1  | 845.5  | 823.8  | 804.1  | 785.4  | 778.4  | 773.5  |
| 22.5°  | 926.4  | 896.8  | 888.9  | 849.5  | 822.8  | 792.3  | 770.6  | 756.7  | 742.9  | 738.0  | 729.1  |
| 25°    | 869.2  | 851.5  | 839.6  | 797.2  | 767.6  | 739.0  | 724.2  | 714.3  | 701.5  | 700.5  | 694.6  |
| 27.5°  | 814.0  | 797.2  | 785.4  | 744.9  | 723.2  | 696.6  | 684.7  | 673.9  | 667.0  | 664.0  | 661.0  |
| 30°    | 766.6  | 747.9  | 734.0  | 704.4  | 677.8  | 656.1  | 646.2  | 639.3  | 635.4  | 630.5  | 629.5  |
| 32.5°  | 714.3  | 703.5  | 684.7  | 662.0  | 641.3  | 620.6  | 614.7  | 609.7  | 603.8  | 601.8  | 600.9  |
| 35°    | 669.9  | 655.1  | 643.3  | 617.6  | 608.7  | 591.0  | 584.1  | 580.1  | 572.2  | 570.3  | 568.3  |
| 37.5°  | 626.5  | 612.7  | 599.9  | 584.1  | 567.3  | 557.4  | 553.5  | 547.6  | 543.6  | 544.6  | 542.6  |
| 40°    | 583.1  | 572.2  | 562.4  | 545.6  | 535.7  | 530.8  | 522.9  | 517.0  | 515.0  | 516.0  | 515.0  |
| 42.5°  | 540.7  | 530.8  | 524.9  | 512.1  | 502.2  | 497.3  | 492.3  | 486.4  | 489.4  | 489.4  | 492.3  |
| 45°    | 502.2  | 493.3  | 489.4  | 479.5  | 473.6  | 465.7  | 460.8  | 459.8  | 463.7  | 462.7  | 462.7  |
| 47.5°  | 462.7  | 459.8  | 454.8  | 446.0  | 438.1  | 433.1  | 432.1  | 432.1  | 436.1  | 438.1  | 437.1  |
| 50°    | 432.1  | 426.2  | 420.3  | 413.4  | 407.5  | 405.5  | 402.5  | 404.5  | 408.5  | 408.5  | 410.4  |
| 52.5°  | 393.7  | 389.7  | 387.7  | 381.8  | 377.9  | 377.9  | 377.9  | 378.9  | 381.8  | 384.8  | 383.8  |
| 55°    | 360.1  | 357.2  | 355.2  | 352.2  | 347.3  | 348.3  | 347.3  | 349.3  | 352.2  | 355.2  | 357.2  |
| 57.5°  | 324.6  | 323.6  | 321.6  | 316.7  | 316.7  | 315.7  | 318.7  | 319.7  | 324.6  | 326.6  | 329.5  |
| 60°    | 293.0  | 290.1  | 290.1  | 286.1  | 286.1  | 286.1  | 289.1  | 292.0  | 296.0  | 297.0  | 298.9  |
| 62.5°  | 259.5  | 259.5  | 258.5  | 255.5  | 255.5  | 258.5  | 259.5  | 263.4  | 265.4  | 265.4  | 268.4  |
| 65°    | 227.9  | 226.9  | 225.9  | 226.9  | 227.9  | 227.9  | 230.9  | 232.8  | 234.8  | 235.8  | 236.8  |
| 67.5°  | 196.3  | 195.4  | 197.3  | 196.3  | 198.3  | 202.3  | 201.3  | 204.2  | 207.2  | 207.2  | 208.2  |
| 70°    | 166.7  | 168.7  | 167.7  | 169.7  | 168.7  | 170.7  | 173.6  | 174.6  | 174.6  | 175.6  | 178.6  |
| 72.5°  | 139.1  | 139.1  | 139.1  | 138.1  | 139.1  | 141.1  | 143.1  | 144.0  | 146.0  | 147.0  | 150.0  |
| 75°    | 112.5  | 112.5  | 110.5  | 112.5  | 112.5  | 114.4  | 116.4  | 116.4  | 116.4  | 118.4  | 121.4  |
| 77.5°  | 84.8   | 85.8   | 84.8   | 86.8   | 86.8   | 87.8   | 89.8   | 88.8   | 90.8   | 91.8   | 92.7   |
| 80°    | 62.2   | 61.2   | 61.2   | 61.2   | 62.2   | 62.2   | 64.1   | 65.1   | 65.1   | 68.1   | 66.1   |
| 82.5°  | 39.5   | 40.5   | 39.5   | 40.5   | 40.5   | 41.4   | 40.5   | 41.4   | 42.4   | 44.4   | 43.4   |
| 85°    | 22.7   | 21.7   | 21.7   | 22.7   | 21.7   | 21.7   | 22.7   | 21.7   | 22.7   | 21.7   | 22.7   |
| 87.5°  | 8.9    | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 5.9    | 5.9    | 4.9    |
| 90°    | 3.4    | 3.8    | 4.1    | 4.6    | 5.2    | 5.7    | 6.3    | 6.6    | 7.0    | 7.3    | 7.6    |
| 92.5°  | 6.7    | 6.6    | 6.7    | 6.9    | 7.1    | 7.3    | 7.5    | 7.6    | 7.8    | 7.9    | 8.0    |
| 95°    | 11.1   | 10.0   | 10.2   | 10.7   | 11.2   | 11.7   | 12.2   | 12.6   | 12.9   | 13.3   | 13.6   |
| 97.5°  | 13.8   | 10.9   | 11.5   | 12.6   | 13.7   | 14.9   | 16.0   | 16.2   | 16.4   | 16.6   | 16.8   |
| 100°   | 17.3   | 12.5   | 13.1   | 14.3   | 15.4   | 16.6   | 17.8   | 18.4   | 18.9   | 19.5   | 20.0   |
| 102.5° | 75.5   | 75.4   | 69.1   | 56.4   | 43.8   | 31.1   | 18.5   | 19.3   | 20.0   | 20.8   | 21.5   |
| 105°   | 103.5  | 104.5  | 95.0   | 76.0   | 57.1   | 38.1   | 19.1   | 19.9   | 20.6   | 21.4   | 22.1   |
| 107.5° | 124.2  | 125.1  | 113.4  | 90.0   | 66.5   | 43.1   | 19.7   | 20.5   | 21.2   | 22.0   | 22.7   |
| 110°   | 144.4  | 145.1  | 135.1  | 115.0  | 94.9   | 74.8   | 54.7   | 47.8   | 40.8   | 33.9   | 27.0   |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 163.6 | 164.2  | 163.6 | 162.4 | 161.3 | 160.1 | 158.9 | 128.9 | 99.0  | 69.0  | 39.1  |
| 115°   | 184.6 | 185.2  | 186.1 | 187.8 | 189.5 | 191.3 | 193.0 | 160.8 | 128.6 | 96.5  | 64.3  |
| 117.5° | 203.9 | 204.6  | 205.2 | 206.4 | 207.5 | 208.7 | 209.9 | 199.9 | 190.0 | 180.0 | 170.1 |
| 120°   | 223.1 | 223.6  | 224.2 | 225.5 | 226.8 | 228.0 | 229.3 | 230.1 | 230.9 | 231.8 | 232.6 |
| 122.5° | 240.9 | 241.5  | 242.2 | 243.6 | 244.9 | 246.3 | 247.7 | 248.1 | 248.5 | 249.0 | 249.4 |
| 125°   | 257.9 | 258.4  | 259.1 | 260.4 | 261.7 | 263.0 | 264.3 | 264.8 | 265.3 | 265.8 | 266.3 |
| 127.5° | 274.4 | 274.9  | 275.4 | 276.5 | 277.5 | 278.6 | 279.6 | 280.3 | 281.0 | 281.7 | 282.4 |
| 130°   | 290.3 | 290.9  | 291.3 | 292.0 | 292.8 | 293.5 | 294.3 | 295.1 | 295.9 | 296.6 | 297.4 |
| 132.5° | 305.1 | 305.6  | 306.0 | 306.7 | 307.5 | 308.2 | 309.0 | 309.6 | 310.2 | 310.9 | 311.5 |
| 135°   | 319.1 | 319.7  | 320.0 | 320.6 | 321.3 | 321.9 | 322.5 | 323.2 | 323.9 | 324.6 | 325.3 |
| 137.5° | 331.8 | 332.2  | 332.5 | 333.2 | 333.9 | 334.6 | 335.3 | 336.0 | 336.7 | 337.4 | 338.1 |
| 140°   | 344.1 | 344.4  | 344.8 | 345.5 | 346.3 | 347.0 | 347.8 | 348.4 | 349.0 | 349.7 | 350.3 |
| 142.5° | 355.1 | 355.3  | 355.8 | 356.7 | 357.6 | 358.5 | 359.4 | 360.0 | 360.5 | 361.1 | 361.6 |
| 145°   | 364.7 | 364.7  | 365.3 | 366.5 | 367.6 | 368.8 | 370.0 | 370.5 | 371.0 | 371.5 | 372.0 |
| 147.5° | 374.5 | 374.4  | 375.0 | 376.2 | 377.3 | 378.5 | 379.7 | 380.1 | 380.4 | 380.8 | 381.1 |
| 150°   | 383.4 | 383.2  | 383.8 | 384.9 | 386.0 | 387.1 | 388.2 | 388.6 | 389.0 | 389.4 | 389.8 |
| 152.5° | 391.6 | 391.3  | 391.8 | 392.9 | 393.9 | 395.0 | 396.0 | 396.4 | 396.8 | 397.3 | 397.7 |
| 155°   | 399.4 | 399.1  | 399.5 | 400.4 | 401.2 | 402.1 | 402.9 | 403.3 | 403.7 | 404.1 | 404.5 |
| 157.5° | 406.3 | 406.0  | 406.3 | 406.9 | 407.6 | 408.2 | 408.8 | 409.3 | 409.8 | 410.3 | 410.8 |
| 160°   | 412.4 | 412.2  | 412.4 | 412.8 | 413.3 | 413.7 | 414.1 | 414.5 | 414.9 | 415.4 | 415.8 |
| 162.5° | 417.4 | 417.2  | 417.4 | 417.7 | 418.1 | 418.4 | 418.8 | 419.3 | 419.8 | 420.3 | 420.8 |
| 165°   | 421.8 | 421.6  | 421.7 | 421.9 | 422.2 | 422.4 | 422.6 | 423.1 | 423.6 | 424.1 | 424.6 |
| 167.5° | 425.3 | 425.1  | 425.2 | 425.4 | 425.6 | 425.8 | 426.0 | 426.5 | 427.0 | 427.5 | 428.0 |
| 170°   | 428.1 | 427.9  | 428.0 | 428.1 | 428.2 | 428.4 | 428.5 | 429.0 | 429.5 | 430.0 | 430.5 |
| 172.5° | 430.0 | 429.8  | 429.9 | 430.0 | 430.1 | 430.3 | 430.4 | 430.9 | 431.4 | 431.9 | 432.4 |
| 175°   | 431.2 | 431.0  | 431.1 | 431.2 | 431.3 | 431.5 | 431.6 | 432.1 | 432.6 | 433.1 | 433.6 |
| 177.5° | 431.8 | 431.6  | 431.6 | 431.7 | 431.8 | 431.8 | 431.9 | 432.4 | 432.9 | 433.4 | 433.9 |
| 180°   | 432.3 | 432.3  | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1223.4 | 1226.4 | 1219.5 | 1217.5 | 1219.5 | 1212.6 | 1214.5 | 1216.5 | 1216.5 | 1219.5 | 1221.4 |
| 5°     | 1152.4 | 1148.4 | 1141.5 | 1139.5 | 1137.6 | 1140.5 | 1138.6 | 1141.5 | 1142.5 | 1149.4 | 1150.4 |
| 7.5°   | 1082.3 | 1076.4 | 1070.5 | 1064.6 | 1062.6 | 1057.7 | 1062.6 | 1062.6 | 1069.5 | 1067.5 | 1072.5 |
| 10°    | 999.4  | 998.5  | 990.6  | 987.6  | 983.7  | 975.8  | 986.6  | 983.7  | 988.6  | 997.5  | 999.4  |
| 12.5°  | 938.3  | 927.4  | 932.4  | 918.5  | 923.5  | 915.6  | 916.6  | 916.6  | 924.5  | 925.5  | 923.5  |
| 15°    | 880.1  | 871.2  | 858.4  | 852.4  | 849.5  | 845.5  | 858.4  | 859.3  | 853.4  | 867.2  | 862.3  |
| 17.5°  | 820.9  | 820.9  | 809.0  | 806.1  | 798.2  | 802.1  | 800.1  | 801.1  | 799.2  | 809.0  | 814.0  |
| 20°    | 769.6  | 764.6  | 760.7  | 761.7  | 751.8  | 749.8  | 747.9  | 749.8  | 756.7  | 763.6  | 765.6  |
| 22.5°  | 728.1  | 725.2  | 715.3  | 717.3  | 709.4  | 712.3  | 710.4  | 715.3  | 716.3  | 716.3  | 723.2  |
| 25°    | 688.7  | 684.7  | 685.7  | 681.8  | 678.8  | 678.8  | 675.8  | 678.8  | 682.7  | 684.7  | 685.7  |
| 27.5°  | 659.1  | 656.1  | 651.2  | 648.2  | 650.2  | 645.3  | 649.2  | 652.2  | 652.2  | 650.2  | 652.2  |
| 30°    | 623.5  | 625.5  | 625.5  | 615.7  | 619.6  | 617.6  | 620.6  | 622.6  | 622.6  | 623.5  | 621.6  |
| 32.5°  | 599.9  | 593.9  | 593.0  | 592.0  | 592.0  | 588.0  | 588.0  | 591.0  | 592.0  | 593.0  | 595.9  |
| 35°    | 568.3  | 568.3  | 563.4  | 566.3  | 562.4  | 563.4  | 562.4  | 563.4  | 565.3  | 562.4  | 565.3  |
| 37.5°  | 539.7  | 540.7  | 538.7  | 540.7  | 541.7  | 539.7  | 537.7  | 541.7  | 539.7  | 539.7  | 537.7  |
| 40°    | 515.0  | 514.0  | 515.0  | 515.0  | 515.0  | 516.0  | 514.0  | 514.0  | 514.0  | 512.1  | 510.1  |
| 42.5°  | 494.3  | 488.4  | 490.4  | 491.3  | 488.4  | 488.4  | 489.4  | 488.4  | 491.3  | 485.4  | 485.4  |
| 45°    | 464.7  | 462.7  | 463.7  | 463.7  | 465.7  | 462.7  | 464.7  | 465.7  | 462.7  | 461.7  | 459.8  |
| 47.5°  | 438.1  | 440.0  | 438.1  | 440.0  | 440.0  | 442.0  | 438.1  | 439.0  | 440.0  | 436.1  | 433.1  |
| 50°    | 411.4  | 411.4  | 414.4  | 413.4  | 414.4  | 412.4  | 412.4  | 411.4  | 412.4  | 410.4  | 407.5  |
| 52.5°  | 386.8  | 383.8  | 388.7  | 387.7  | 386.8  | 385.8  | 384.8  | 385.8  | 383.8  | 381.8  | 381.8  |
| 55°    | 356.2  | 356.2  | 359.1  | 360.1  | 360.1  | 358.1  | 356.2  | 357.2  | 356.2  | 355.2  | 354.2  |
| 57.5°  | 331.5  | 327.6  | 329.5  | 330.5  | 330.5  | 327.6  | 329.5  | 327.6  | 327.6  | 328.5  | 325.6  |
| 60°    | 299.9  | 299.9  | 298.0  | 300.9  | 300.9  | 298.9  | 298.9  | 299.9  | 298.0  | 297.0  | 296.0  |
| 62.5°  | 266.4  | 267.4  | 270.3  | 271.3  | 272.3  | 270.3  | 268.4  | 269.3  | 269.3  | 266.4  | 267.4  |
| 65°    | 237.8  | 239.7  | 243.7  | 242.7  | 240.7  | 241.7  | 239.7  | 240.7  | 237.8  | 238.8  | 235.8  |
| 67.5°  | 210.2  | 209.2  | 210.2  | 210.2  | 212.1  | 211.1  | 209.2  | 209.2  | 208.2  | 211.1  | 208.2  |
| 70°    | 180.6  | 180.6  | 180.6  | 180.6  | 181.5  | 182.5  | 180.6  | 178.6  | 179.6  | 177.6  | 176.6  |
| 72.5°  | 150.0  | 151.0  | 150.0  | 151.9  | 149.0  | 151.0  | 151.0  | 150.0  | 149.0  | 149.0  | 149.0  |
| 75°    | 121.4  | 123.3  | 120.4  | 121.4  | 120.4  | 122.3  | 121.4  | 121.4  | 119.4  | 118.4  | 119.4  |
| 77.5°  | 92.7   | 93.7   | 91.8   | 92.7   | 91.8   | 92.7   | 92.7   | 91.8   | 91.8   | 91.8   | 91.8   |
| 80°    | 66.1   | 67.1   | 66.1   | 65.1   | 64.1   | 66.1   | 64.1   | 65.1   | 66.1   | 65.1   | 67.1   |
| 82.5°  | 42.4   | 42.4   | 41.4   | 42.4   | 40.5   | 40.5   | 41.4   | 41.4   | 40.5   | 42.4   | 40.5   |
| 85°    | 20.7   | 20.7   | 22.7   | 20.7   | 19.7   | 19.7   | 19.7   | 20.7   | 19.7   | 21.7   | 20.7   |
| 87.5°  | 4.9    | 3.9    | 4.9    | 4.9    | 3.9    | 3.9    | 4.9    | 3.9    | 4.9    | 5.9    | 3.9    |
| 90°    | 7.8    | 7.9    | 8.0    | 8.1    | 8.3    | 8.4    | 8.3    | 8.1    | 8.0    | 7.9    | 7.8    |
| 92.5°  | 8.1    | 8.1    | 8.2    | 8.3    | 8.3    | 8.4    | 8.3    | 8.3    | 8.2    | 8.1    | 8.1    |
| 95°    | 13.8   | 13.8   | 13.7   | 13.6   | 13.5   | 13.4   | 13.5   | 13.6   | 13.7   | 13.8   | 13.8   |
| 97.5°  | 16.9   | 16.9   | 17.0   | 17.1   | 17.1   | 17.2   | 17.1   | 17.1   | 17.0   | 16.9   | 16.9   |
| 100°   | 20.3   | 20.4   | 20.5   | 20.7   | 20.8   | 21.0   | 20.8   | 20.7   | 20.5   | 20.4   | 20.3   |
| 102.5° | 21.9   | 22.0   | 22.2   | 22.4   | 22.6   | 22.8   | 22.6   | 22.4   | 22.2   | 22.0   | 21.9   |
| 105°   | 22.5   | 22.6   | 22.9   | 23.2   | 23.5   | 23.8   | 23.5   | 23.2   | 22.9   | 22.6   | 22.5   |
| 107.5° | 23.1   | 23.2   | 23.5   | 23.8   | 24.1   | 24.4   | 24.1   | 23.8   | 23.5   | 23.2   | 23.1   |
| 110°   | 23.5   | 23.6   | 23.9   | 24.2   | 24.4   | 24.7   | 24.4   | 24.2   | 23.9   | 23.6   | 23.5   |



TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 24.1   | 24.2  | 24.4  | 24.6  | 24.8  | 25.0  | 24.8  | 24.6  | 24.4  | 24.2  | 24.1   |
| 115°   | 48.2   | 45.7  | 40.7  | 35.6  | 30.6  | 25.6  | 30.6  | 35.6  | 40.7  | 45.7  | 48.2   |
| 117.5° | 165.1  | 156.0 | 137.8 | 119.6 | 101.4 | 83.2  | 101.4 | 119.6 | 137.8 | 156.0 | 165.1  |
| 120°   | 233.0  | 228.3 | 218.9 | 209.6 | 200.2 | 190.8 | 200.2 | 209.6 | 218.9 | 228.3 | 233.0  |
| 122.5° | 249.6  | 249.6 | 249.7 | 249.8 | 249.8 | 249.9 | 249.8 | 249.8 | 249.7 | 249.6 | 249.6  |
| 125°   | 266.5  | 266.6 | 266.8 | 267.0 | 267.2 | 267.4 | 267.2 | 267.0 | 266.8 | 266.6 | 266.5  |
| 127.5° | 282.8  | 282.8 | 282.9 | 283.0 | 283.0 | 283.1 | 283.0 | 283.0 | 282.9 | 282.8 | 282.8  |
| 130°   | 297.8  | 297.8 | 297.7 | 297.6 | 297.6 | 297.5 | 297.6 | 297.6 | 297.7 | 297.8 | 297.8  |
| 132.5° | 311.8  | 311.8 | 311.7 | 311.6 | 311.6 | 311.5 | 311.6 | 311.6 | 311.7 | 311.8 | 311.8  |
| 135°   | 325.6  | 325.5 | 325.4 | 325.3 | 325.1 | 325.0 | 325.1 | 325.3 | 325.4 | 325.5 | 325.6  |
| 137.5° | 338.4  | 338.3 | 338.1 | 337.9 | 337.7 | 337.5 | 337.7 | 337.9 | 338.1 | 338.3 | 338.4  |
| 140°   | 350.6  | 350.4 | 350.1 | 349.8 | 349.4 | 349.1 | 349.4 | 349.8 | 350.1 | 350.4 | 350.6  |
| 142.5° | 361.9  | 361.7 | 361.4 | 361.0 | 360.7 | 360.3 | 360.7 | 361.0 | 361.4 | 361.7 | 361.9  |
| 145°   | 372.2  | 372.0 | 371.7 | 371.3 | 371.0 | 370.6 | 371.0 | 371.3 | 371.7 | 372.0 | 372.2  |
| 147.5° | 381.3  | 381.2 | 380.9 | 380.6 | 380.3 | 380.0 | 380.3 | 380.6 | 380.9 | 381.2 | 381.3  |
| 150°   | 390.0  | 389.8 | 389.5 | 389.2 | 388.8 | 388.5 | 388.8 | 389.2 | 389.5 | 389.8 | 390.0  |
| 152.5° | 397.9  | 397.7 | 397.2 | 396.7 | 396.2 | 395.7 | 396.2 | 396.7 | 397.2 | 397.7 | 397.9  |
| 155°   | 404.7  | 404.4 | 403.9 | 403.3 | 402.8 | 402.2 | 402.8 | 403.3 | 403.9 | 404.4 | 404.7  |
| 157.5° | 411.0  | 410.7 | 410.2 | 409.6 | 409.1 | 408.5 | 409.1 | 409.6 | 410.2 | 410.7 | 411.0  |
| 160°   | 416.0  | 415.8 | 415.3 | 414.8 | 414.3 | 413.8 | 414.3 | 414.8 | 415.3 | 415.8 | 416.0  |
| 162.5° | 421.0  | 420.7 | 420.1 | 419.4 | 418.8 | 418.2 | 418.8 | 419.4 | 420.1 | 420.7 | 421.0  |
| 165°   | 424.8  | 424.6 | 424.1 | 423.6 | 423.1 | 422.6 | 423.1 | 423.6 | 424.1 | 424.6 | 424.8  |
| 167.5° | 428.2  | 427.9 | 427.3 | 426.6 | 426.0 | 425.4 | 426.0 | 426.6 | 427.3 | 427.9 | 428.2  |
| 170°   | 430.7  | 430.4 | 429.8 | 429.1 | 428.5 | 427.9 | 428.5 | 429.1 | 429.8 | 430.4 | 430.7  |
| 172.5° | 432.6  | 432.3 | 431.7 | 431.0 | 430.4 | 429.8 | 430.4 | 431.0 | 431.7 | 432.3 | 432.6  |
| 175°   | 433.8  | 433.5 | 432.8 | 432.1 | 431.4 | 430.7 | 431.4 | 432.1 | 432.8 | 433.5 | 433.8  |
| 177.5° | 434.1  | 433.8 | 433.2 | 432.5 | 431.9 | 431.3 | 431.9 | 432.5 | 433.2 | 433.8 | 434.1  |
| 180°   | 432.3  | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3  |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1218.5 | 1226.4 | 1223.4 | 1212.6 | 1225.4 | 1225.4 | 1234.3 | 1234.3 | 1245.1 | 1249.1 | 1255.0 |
| 5°     | 1149.4 | 1155.3 | 1160.3 | 1155.3 | 1164.2 | 1178.0 | 1185.9 | 1192.8 | 1207.6 | 1213.5 | 1222.4 |
| 7.5°   | 1075.4 | 1086.3 | 1091.2 | 1091.2 | 1106.0 | 1121.8 | 1137.6 | 1147.4 | 1168.2 | 1176.1 | 1184.9 |
| 10°    | 1003.4 | 1016.2 | 1026.1 | 1025.1 | 1049.8 | 1059.6 | 1079.4 | 1102.1 | 1122.8 | 1134.6 | 1147.4 |
| 12.5°  | 927.4  | 934.3  | 948.1  | 967.9  | 973.8  | 991.6  | 1014.2 | 1042.9 | 1080.4 | 1091.2 | 1109.9 |
| 15°    | 864.3  | 883.0  | 893.9  | 902.8  | 916.6  | 933.3  | 958.0  | 985.6  | 1023.1 | 1046.8 | 1066.5 |
| 17.5°  | 811.0  | 835.7  | 842.6  | 840.6  | 858.4  | 884.0  | 912.6  | 933.3  | 966.9  | 995.5  | 1014.2 |
| 20°    | 767.6  | 777.5  | 789.3  | 794.2  | 808.0  | 835.7  | 863.3  | 887.0  | 914.6  | 937.3  | 959.0  |
| 22.5°  | 724.2  | 732.1  | 741.9  | 750.8  | 761.7  | 777.5  | 804.1  | 833.7  | 860.3  | 882.0  | 906.7  |
| 25°    | 688.7  | 693.6  | 702.5  | 709.4  | 721.2  | 732.1  | 750.8  | 783.4  | 814.9  | 827.8  | 849.5  |
| 27.5°  | 654.1  | 658.1  | 664.0  | 671.9  | 677.8  | 688.7  | 705.4  | 732.1  | 764.6  | 777.5  | 807.1  |
| 30°    | 623.5  | 626.5  | 632.4  | 636.4  | 639.3  | 652.2  | 665.0  | 685.7  | 710.4  | 728.1  | 749.8  |
| 32.5°  | 594.9  | 597.9  | 603.8  | 604.8  | 608.7  | 615.7  | 627.5  | 646.2  | 667.9  | 682.7  | 701.5  |
| 35°    | 563.4  | 565.3  | 571.3  | 573.2  | 576.2  | 582.1  | 591.0  | 604.8  | 624.5  | 635.4  | 652.2  |
| 37.5°  | 538.7  | 537.7  | 541.7  | 544.6  | 548.6  | 551.5  | 554.5  | 568.3  | 583.1  | 593.0  | 605.8  |
| 40°    | 512.1  | 510.1  | 511.1  | 515.0  | 517.0  | 520.9  | 520.9  | 534.7  | 544.6  | 552.5  | 562.4  |
| 42.5°  | 485.4  | 484.4  | 482.5  | 484.4  | 486.4  | 487.4  | 488.4  | 498.2  | 508.1  | 515.0  | 525.9  |
| 45°    | 458.8  | 457.8  | 455.8  | 456.8  | 456.8  | 458.8  | 461.7  | 465.7  | 472.6  | 478.5  | 484.4  |
| 47.5°  | 434.1  | 432.1  | 429.2  | 428.2  | 430.2  | 430.2  | 430.2  | 434.1  | 441.0  | 443.0  | 448.9  |
| 50°    | 408.5  | 405.5  | 401.6  | 399.6  | 399.6  | 398.6  | 400.6  | 401.6  | 407.5  | 409.4  | 414.4  |
| 52.5°  | 380.8  | 378.9  | 374.9  | 371.0  | 372.0  | 370.0  | 371.0  | 372.0  | 373.9  | 376.9  | 379.8  |
| 55°    | 353.2  | 349.3  | 346.3  | 345.3  | 342.4  | 342.4  | 339.4  | 343.3  | 342.4  | 343.3  | 347.3  |
| 57.5°  | 326.6  | 322.6  | 317.7  | 315.7  | 312.8  | 311.8  | 309.8  | 308.8  | 309.8  | 312.8  | 315.7  |
| 60°    | 295.0  | 293.0  | 290.1  | 287.1  | 285.1  | 282.2  | 280.2  | 280.2  | 279.2  | 279.2  | 280.2  |
| 62.5°  | 264.4  | 263.4  | 259.5  | 258.5  | 256.5  | 254.5  | 251.6  | 249.6  | 249.6  | 251.6  | 252.6  |
| 65°    | 234.8  | 233.8  | 230.9  | 229.9  | 224.9  | 223.0  | 222.0  | 221.0  | 219.0  | 219.0  | 219.0  |
| 67.5°  | 207.2  | 204.2  | 204.2  | 199.3  | 195.4  | 193.4  | 191.4  | 190.4  | 190.4  | 190.4  | 191.4  |
| 70°    | 176.6  | 176.6  | 173.6  | 170.7  | 166.7  | 167.7  | 164.8  | 161.8  | 161.8  | 159.8  | 160.8  |
| 72.5°  | 147.0  | 146.0  | 143.1  | 142.1  | 139.1  | 136.2  | 134.2  | 136.2  | 133.2  | 132.2  | 133.2  |
| 75°    | 118.4  | 117.4  | 115.4  | 113.5  | 114.4  | 111.5  | 108.5  | 107.5  | 107.5  | 105.6  | 105.6  |
| 77.5°  | 90.8   | 92.7   | 88.8   | 87.8   | 85.8   | 83.9   | 82.9   | 81.9   | 81.9   | 81.9   | 83.9   |
| 80°    | 63.1   | 64.1   | 64.1   | 62.2   | 63.1   | 60.2   | 60.2   | 60.2   | 57.2   | 58.2   | 59.2   |
| 82.5°  | 40.5   | 40.5   | 39.5   | 40.5   | 39.5   | 39.5   | 38.5   | 38.5   | 37.5   | 37.5   | 38.5   |
| 85°    | 22.7   | 21.7   | 20.7   | 22.7   | 21.7   | 21.7   | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   |
| 87.5°  | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 7.9    | 7.9    | 7.9    |
| 90°    | 7.6    | 7.3    | 7.0    | 6.6    | 6.3    | 5.7    | 5.2    | 4.6    | 4.1    | 3.8    | 3.4    |
| 92.5°  | 8.0    | 7.9    | 7.8    | 7.6    | 7.5    | 7.3    | 7.1    | 6.9    | 6.7    | 6.6    | 6.7    |
| 95°    | 13.6   | 13.3   | 12.9   | 12.6   | 12.2   | 11.7   | 11.2   | 10.7   | 10.2   | 10.0   | 11.1   |
| 97.5°  | 16.8   | 16.6   | 16.4   | 16.2   | 16.0   | 14.9   | 13.7   | 12.6   | 11.5   | 10.9   | 13.8   |
| 100°   | 20.0   | 19.5   | 18.9   | 18.4   | 17.8   | 16.6   | 15.4   | 14.3   | 13.1   | 12.5   | 17.3   |
| 102.5° | 21.5   | 20.8   | 20.0   | 19.3   | 18.5   | 31.1   | 43.8   | 56.4   | 69.1   | 75.4   | 75.5   |
| 105°   | 22.1   | 21.4   | 20.6   | 19.9   | 19.1   | 38.1   | 57.1   | 76.0   | 95.0   | 104.5  | 103.5  |
| 107.5° | 22.7   | 22.0   | 21.2   | 20.5   | 19.7   | 43.1   | 66.5   | 90.0   | 113.4  | 125.1  | 124.2  |
| 110°   | 27.0   | 33.9   | 40.8   | 47.8   | 54.7   | 74.8   | 94.9   | 115.0  | 135.1  | 145.1  | 144.4  |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 39.1  | 69.0  | 99.0  | 128.9 | 158.9 | 160.1 | 161.3 | 162.4 | 163.6 | 164.2  | 163.6 |
| 115°   | 64.3  | 96.5  | 128.6 | 160.8 | 193.0 | 191.3 | 189.5 | 187.8 | 186.1 | 185.2  | 184.6 |
| 117.5° | 170.1 | 180.0 | 190.0 | 199.9 | 209.9 | 208.7 | 207.5 | 206.4 | 205.2 | 204.6  | 203.9 |
| 120°   | 232.6 | 231.8 | 230.9 | 230.1 | 229.3 | 228.0 | 226.8 | 225.5 | 224.2 | 223.6  | 223.1 |
| 122.5° | 249.4 | 249.0 | 248.5 | 248.1 | 247.7 | 246.3 | 244.9 | 243.6 | 242.2 | 241.5  | 240.9 |
| 125°   | 266.3 | 265.8 | 265.3 | 264.8 | 264.3 | 263.0 | 261.7 | 260.4 | 259.1 | 258.4  | 257.9 |
| 127.5° | 282.4 | 281.7 | 281.0 | 280.3 | 279.6 | 278.6 | 277.5 | 276.5 | 275.4 | 274.9  | 274.4 |
| 130°   | 297.4 | 296.6 | 295.9 | 295.1 | 294.3 | 293.5 | 292.8 | 292.0 | 291.3 | 290.9  | 290.3 |
| 132.5° | 311.5 | 310.9 | 310.2 | 309.6 | 309.0 | 308.2 | 307.5 | 306.7 | 306.0 | 305.6  | 305.1 |
| 135°   | 325.3 | 324.6 | 323.9 | 323.2 | 322.5 | 321.9 | 321.3 | 320.6 | 320.0 | 319.7  | 319.1 |
| 137.5° | 338.1 | 337.4 | 336.7 | 336.0 | 335.3 | 334.6 | 333.9 | 333.2 | 332.5 | 332.2  | 331.8 |
| 140°   | 350.3 | 349.7 | 349.0 | 348.4 | 347.8 | 347.0 | 346.3 | 345.5 | 344.8 | 344.4  | 344.1 |
| 142.5° | 361.6 | 361.1 | 360.5 | 360.0 | 359.4 | 358.5 | 357.6 | 356.7 | 355.8 | 355.3  | 355.1 |
| 145°   | 372.0 | 371.5 | 371.0 | 370.5 | 370.0 | 368.8 | 367.6 | 366.5 | 365.3 | 364.7  | 364.7 |
| 147.5° | 381.1 | 380.8 | 380.4 | 380.1 | 379.7 | 378.5 | 377.3 | 376.2 | 375.0 | 374.4  | 374.5 |
| 150°   | 389.8 | 389.4 | 389.0 | 388.6 | 388.2 | 387.1 | 386.0 | 384.9 | 383.8 | 383.2  | 383.4 |
| 152.5° | 397.7 | 397.3 | 396.8 | 396.4 | 396.0 | 395.0 | 393.9 | 392.9 | 391.8 | 391.3  | 391.6 |
| 155°   | 404.5 | 404.1 | 403.7 | 403.3 | 402.9 | 402.1 | 401.2 | 400.4 | 399.5 | 399.1  | 399.4 |
| 157.5° | 410.8 | 410.3 | 409.8 | 409.3 | 408.8 | 408.2 | 407.6 | 406.9 | 406.3 | 406.0  | 406.3 |
| 160°   | 415.8 | 415.4 | 414.9 | 414.5 | 414.1 | 413.7 | 413.3 | 412.8 | 412.4 | 412.2  | 412.4 |
| 162.5° | 420.8 | 420.3 | 419.8 | 419.3 | 418.8 | 418.4 | 418.1 | 417.7 | 417.4 | 417.2  | 417.4 |
| 165°   | 424.6 | 424.1 | 423.6 | 423.1 | 422.6 | 422.4 | 422.2 | 421.9 | 421.7 | 421.6  | 421.8 |
| 167.5° | 428.0 | 427.5 | 427.0 | 426.5 | 426.0 | 425.8 | 425.6 | 425.4 | 425.2 | 425.1  | 425.3 |
| 170°   | 430.5 | 430.0 | 429.5 | 429.0 | 428.5 | 428.4 | 428.2 | 428.1 | 428.0 | 427.9  | 428.1 |
| 172.5° | 432.4 | 431.9 | 431.4 | 430.9 | 430.4 | 430.3 | 430.1 | 430.0 | 429.9 | 429.8  | 430.0 |
| 175°   | 433.6 | 433.1 | 432.6 | 432.1 | 431.6 | 431.5 | 431.3 | 431.2 | 431.1 | 431.0  | 431.2 |
| 177.5° | 433.9 | 433.4 | 432.9 | 432.4 | 431.9 | 431.8 | 431.8 | 431.7 | 431.6 | 431.6  | 431.8 |
| 180°   | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3  | 432.3 |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1259.9 | 1259.9 | 1274.7 | 1290.5 |
| 5°     | 1232.3 | 1239.2 | 1262.9 | 1284.6 |
| 7.5°   | 1205.7 | 1217.5 | 1247.1 | 1274.7 |
| 10°    | 1173.1 | 1188.9 | 1225.4 | 1257.9 |
| 12.5°  | 1141.5 | 1156.3 | 1198.7 | 1235.2 |
| 15°    | 1097.1 | 1115.9 | 1161.3 | 1206.6 |
| 17.5°  | 1052.7 | 1071.5 | 1126.7 | 1180.0 |
| 20°    | 1000.4 | 1025.1 | 1087.3 | 1158.3 |
| 22.5°  | 952.1  | 982.7  | 1051.7 | 1109.0 |
| 25°    | 898.8  | 946.2  | 1010.3 | 1084.3 |
| 27.5°  | 851.5  | 898.8  | 963.9  | 1038.9 |
| 30°    | 798.2  | 846.5  | 913.6  | 982.7  |
| 32.5°  | 746.9  | 791.3  | 856.4  | 941.2  |
| 35°    | 693.6  | 736.0  | 799.2  | 885.0  |
| 37.5°  | 645.3  | 686.7  | 755.8  | 834.7  |
| 40°    | 597.9  | 641.3  | 700.5  | 779.4  |
| 42.5°  | 553.5  | 592.0  | 645.3  | 724.2  |
| 45°    | 513.0  | 540.7  | 590.0  | 664.0  |
| 47.5°  | 470.6  | 495.3  | 540.7  | 614.7  |
| 50°    | 431.2  | 451.9  | 491.3  | 560.4  |
| 52.5°  | 392.7  | 410.4  | 446.9  | 502.2  |
| 55°    | 358.1  | 374.9  | 401.6  | 455.8  |
| 57.5°  | 322.6  | 335.5  | 361.1  | 404.5  |
| 60°    | 288.1  | 299.9  | 320.7  | 356.2  |
| 62.5°  | 253.6  | 263.4  | 283.2  | 311.8  |
| 65°    | 223.0  | 230.9  | 245.7  | 270.3  |
| 67.5°  | 193.4  | 198.3  | 210.2  | 229.9  |
| 70°    | 164.8  | 168.7  | 178.6  | 194.4  |
| 72.5°  | 134.2  | 138.1  | 149.0  | 159.8  |
| 75°    | 108.5  | 109.5  | 117.4  | 126.3  |
| 77.5°  | 84.8   | 83.9   | 89.8   | 96.7   |
| 80°    | 58.2   | 61.2   | 66.1   | 69.1   |
| 82.5°  | 39.5   | 40.5   | 42.4   | 44.4   |
| 85°    | 21.7   | 22.7   | 22.7   | 25.7   |
| 87.5°  | 8.9    | 9.9    | 9.9    | 10.9   |
| 90°    | 2.6    | 1.9    | 1.1    | 0.3    |
| 92.5°  | 7.0    | 7.3    | 7.5    | 7.8    |
| 95°    | 13.4   | 15.7   | 18.0   | 20.3   |
| 97.5°  | 19.5   | 25.2   | 30.9   | 36.6   |
| 100°   | 26.8   | 36.3   | 45.9   | 55.4   |
| 102.5° | 75.6   | 75.7   | 75.9   | 76.0   |
| 105°   | 101.4  | 99.3   | 97.2   | 95.1   |
| 107.5° | 122.5  | 120.8  | 119.0  | 117.3  |
| 110°   | 142.9  | 141.5  | 140.0  | 138.6  |

TEST NUMBER: P1008163

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 162.3 | 161.1 | 159.8 | 158.6 |
| 115°   | 183.4 | 182.2 | 181.0 | 179.8 |
| 117.5° | 202.5 | 201.1 | 199.7 | 198.3 |
| 120°   | 222.0 | 221.0 | 219.9 | 218.9 |
| 122.5° | 239.8 | 238.7 | 237.6 | 236.5 |
| 125°   | 257.0 | 256.1 | 255.2 | 254.3 |
| 127.5° | 273.5 | 272.5 | 271.6 | 270.6 |
| 130°   | 289.2 | 288.1 | 287.0 | 285.9 |
| 132.5° | 304.2 | 303.3 | 302.4 | 301.5 |
| 135°   | 318.0 | 316.9 | 315.8 | 314.7 |
| 137.5° | 330.9 | 330.1 | 329.2 | 328.4 |
| 140°   | 343.6 | 343.0 | 342.5 | 341.9 |
| 142.5° | 354.6 | 354.1 | 353.6 | 353.1 |
| 145°   | 364.8 | 364.9 | 364.9 | 365.0 |
| 147.5° | 374.7 | 374.9 | 375.1 | 375.3 |
| 150°   | 383.9 | 384.4 | 384.8 | 385.3 |
| 152.5° | 392.1 | 392.7 | 393.2 | 393.8 |
| 155°   | 400.0 | 400.7 | 401.3 | 401.9 |
| 157.5° | 406.8 | 407.4 | 407.9 | 408.5 |
| 160°   | 412.8 | 413.3 | 413.7 | 414.1 |
| 162.5° | 417.8 | 418.3 | 418.7 | 419.1 |
| 165°   | 422.2 | 422.7 | 423.1 | 423.5 |
| 167.5° | 425.7 | 426.1 | 426.5 | 426.9 |
| 170°   | 428.5 | 429.0 | 429.4 | 429.8 |
| 172.5° | 430.4 | 430.8 | 431.2 | 431.6 |
| 175°   | 431.7 | 432.2 | 432.7 | 433.2 |
| 177.5° | 432.3 | 432.8 | 433.3 | 433.8 |
| 180°   | 432.3 | 432.3 | 432.3 | 432.3 |

(END OF REPORT)