

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: P1031246

Luminaire Tested: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1031246  
REPORT IS A COMBINATION OF REPORTS P994740 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K  
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

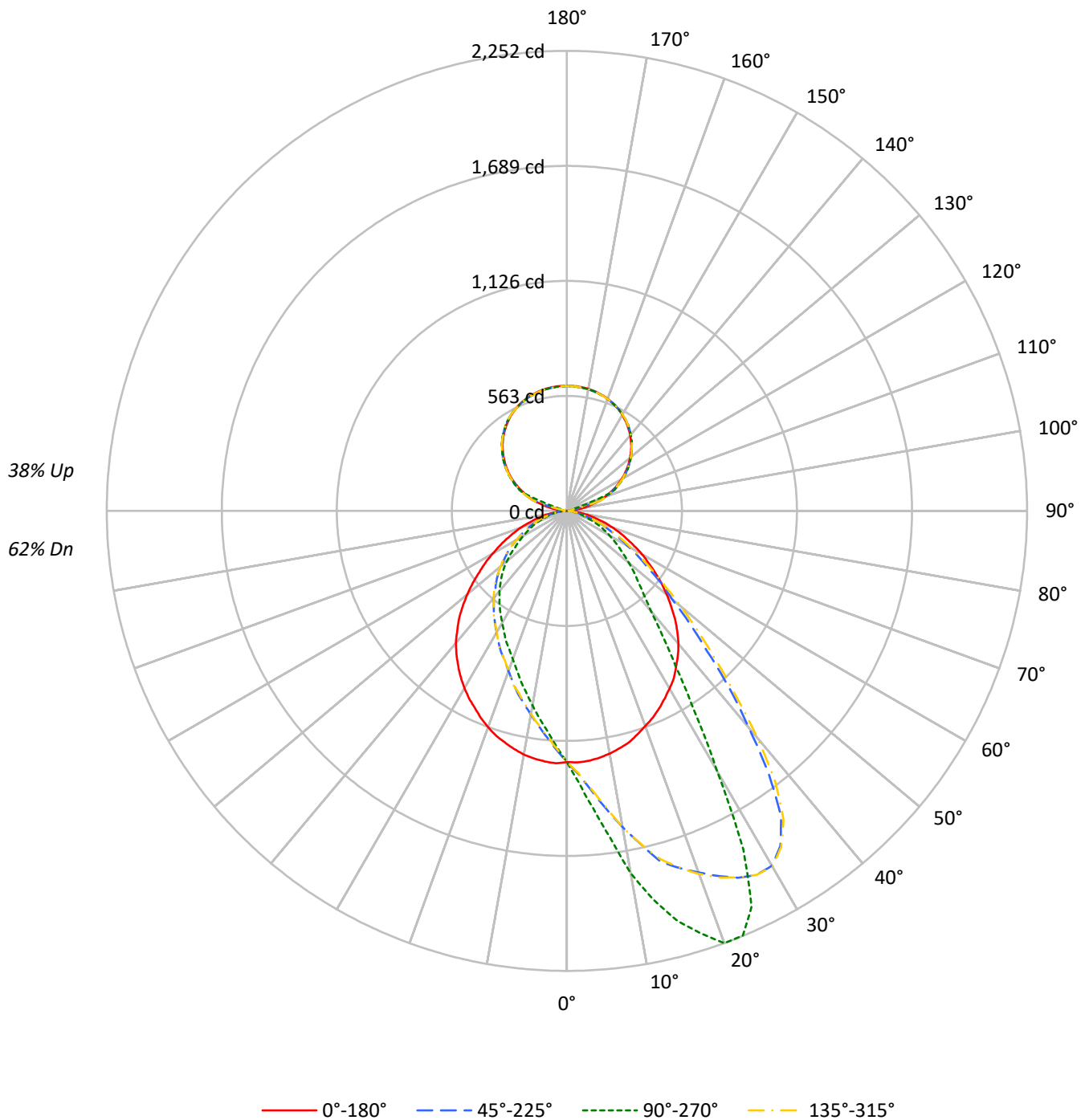
Lumens per Lamp: N/A  
Luminaire Lumens: 4926.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 49.1  
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

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CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1031246

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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 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 67 | 67 | 67 |
| 1   | 101 | 97  | 93  | 90  | 95  | 91  | 88  | 85  | 80 | 78 | 76 | 70 | 68 | 67 | 61 | 59 | 58 | 58 | 58 | 54 |
| 2   | 93  | 86  | 80  | 75  | 87  | 81  | 75  | 71  | 71 | 67 | 64 | 62 | 59 | 57 | 54 | 52 | 50 | 50 | 46 | 46 |
| 3   | 85  | 76  | 69  | 63  | 80  | 72  | 65  | 60  | 63 | 59 | 55 | 56 | 52 | 49 | 49 | 46 | 44 | 44 | 40 | 40 |
| 4   | 78  | 68  | 60  | 54  | 73  | 64  | 57  | 52  | 57 | 51 | 47 | 50 | 46 | 43 | 44 | 41 | 38 | 38 | 35 | 35 |
| 5   | 72  | 61  | 53  | 47  | 68  | 57  | 50  | 45  | 51 | 46 | 41 | 45 | 41 | 37 | 40 | 37 | 34 | 34 | 31 | 31 |
| 6   | 67  | 55  | 47  | 41  | 62  | 52  | 45  | 40  | 46 | 41 | 36 | 41 | 37 | 33 | 37 | 33 | 30 | 30 | 27 | 27 |
| 7   | 62  | 50  | 42  | 36  | 58  | 47  | 40  | 35  | 42 | 37 | 32 | 38 | 33 | 30 | 34 | 30 | 27 | 27 | 25 | 25 |
| 8   | 58  | 45  | 38  | 33  | 54  | 43  | 36  | 31  | 39 | 33 | 29 | 35 | 30 | 27 | 31 | 27 | 24 | 24 | 22 | 22 |
| 9   | 54  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 36 | 30 | 26 | 32 | 27 | 24 | 29 | 25 | 22 | 22 | 20 | 20 |
| 10  | 50  | 38  | 31  | 26  | 47  | 37  | 30  | 26  | 33 | 28 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 20 | 18 | 18 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 13232 | 13232 | 13232 | 13232 |
| 5°  | 13242 | 15240 | 13276 | 11306 |
| 10° | 13125 | 18396 | 13182 | 9875  |
| 15° | 12990 | 20879 | 12990 | 8707  |
| 20° | 12724 | 22521 | 12795 | 7724  |
| 25° | 12529 | 21397 | 12504 | 7048  |
| 30° | 12302 | 14825 | 12277 | 6387  |
| 35° | 12028 | 9518  | 11974 | 5888  |
| 40° | 11689 | 6721  | 11631 | 5393  |
| 45° | 11098 | 5379  | 11082 | 4909  |
| 50° | 10371 | 4500  | 10337 | 4344  |
| 55° | 9554  | 3708  | 9478  | 3683  |
| 60° | 8751  | 3065  | 8664  | 3132  |
| 65° | 7810  | 2453  | 7861  | 2656  |
| 70° | 6944  | 1705  | 7130  | 2146  |
| 75° | 5885  | 1265  | 6124  | 1650  |
| 80° | 4685  | 838   | 5087  | 1238  |
| 85° | 3333  | 397   | 3640  | 769   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 17665 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.7  | 2.5       |
| 10°-20°   | 377.9  | 7.7       |
| 20°-30°   | 595.2  | 12.1      |
| 30°-40°   | 618.9  | 12.6      |
| 40°-50°   | 529.5  | 10.7      |
| 50°-60°   | 403.7  | 8.2       |
| 60°-70°   | 258.6  | 5.3       |
| 70°-80°   | 123.9  | 2.5       |
| 80°-90°   | 33.8   | 0.7       |
| 90°-100°  | 21.6   | 0.4       |
| 100°-110° | 104.2  | 2.1       |
| 110°-120° | 255.4  | 5.2       |
| 120°-130° | 324.3  | 6.6       |
| 130°-140° | 346.4  | 7.0       |
| 140°-150° | 323.9  | 6.6       |
| 150°-160° | 261.3  | 5.3       |
| 160°-170° | 168.6  | 3.4       |
| 170°-180° | 58.1   | 1.2       |
| 0°-30°    | 1093.8 | 22.2      |
| 0°-40°    | 1712.7 | 34.8      |
| 0°-60°    | 2645.9 | 53.7      |
| 0°-90°    | 3062.2 | 62.2      |
| 90°-120°  | 381.2  | 7.7       |
| 90°-150°  | 1375.8 | 27.9      |
| 90°-180°  | 1864.0 | 37.8      |
| 0°-180°   | 4926.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1229 | 1229 | 1229 | 1229 | 1229 |      |
| 5°   | 1228 | 1460 | 1231 | 1083 | 1228 | 116  |
| 15°  | 1174 | 2074 | 1174 | 865  | 1174 | 330  |
| 25°  | 1067 | 2138 | 1065 | 704  | 1067 | 492  |
| 35°  | 931  | 927  | 927  | 574  | 931  | 583  |
| 45°  | 747  | 495  | 746  | 452  | 747  | 575  |
| 55°  | 527  | 310  | 523  | 308  | 527  | 472  |
| 65°  | 323  | 179  | 325  | 194  | 323  | 323  |
| 75°  | 155  | 76   | 161  | 99   | 155  | 167  |
| 85°  | 35   | 18   | 38   | 35   | 35   | 39   |
| 90°  | 0    | 14   | 0    | 14   | 0    | 3    |
| 95°  | 28   | 17   | 28   | 17   | 28   | 33   |
| 105° | 135  | 20   | 135  | 20   | 135  | 144  |
| 115° | 254  | 267  | 254  | 267  | 254  | 251  |
| 125° | 358  | 365  | 358  | 365  | 358  | 320  |
| 135° | 446  | 450  | 446  | 450  | 446  | 343  |
| 145° | 514  | 519  | 514  | 519  | 514  | 322  |
| 155° | 566  | 566  | 566  | 566  | 566  | 261  |
| 165° | 597  | 596  | 597  | 596  | 597  | 169  |
| 175° | 611  | 609  | 611  | 609  | 611  | 58   |
| 180° | 611  | 611  | 611  | 611  | 611  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1232.4 | 1240.9 | 1247.2 | 1251.4 | 1261.9 | 1268.2 | 1273.5 | 1283.0 | 1283.0 | 1285.1 | 1289.3 |
| 5°     | 1228.2 | 1246.1 | 1258.8 | 1275.6 | 1297.7 | 1308.2 | 1323.0 | 1335.6 | 1353.5 | 1363.0 | 1372.4 |
| 7.5°   | 1218.8 | 1244.0 | 1270.3 | 1295.6 | 1328.2 | 1349.3 | 1364.0 | 1396.6 | 1419.8 | 1448.2 | 1470.3 |
| 10°    | 1206.1 | 1240.9 | 1274.5 | 1313.5 | 1357.7 | 1389.3 | 1411.4 | 1454.5 | 1498.7 | 1538.7 | 1572.4 |
| 12.5°  | 1190.3 | 1232.4 | 1280.9 | 1328.2 | 1390.3 | 1421.9 | 1457.7 | 1511.4 | 1574.5 | 1625.0 | 1670.3 |
| 15°    | 1173.5 | 1221.9 | 1276.7 | 1334.5 | 1412.4 | 1456.6 | 1508.2 | 1573.4 | 1644.0 | 1716.6 | 1778.7 |
| 17.5°  | 1147.2 | 1208.2 | 1269.3 | 1353.5 | 1445.0 | 1471.4 | 1515.6 | 1605.0 | 1692.4 | 1757.6 | 1833.4 |
| 20°    | 1120.9 | 1189.3 | 1266.1 | 1341.9 | 1440.8 | 1501.9 | 1542.9 | 1637.7 | 1731.3 | 1810.3 | 1882.9 |
| 22.5°  | 1096.7 | 1168.2 | 1248.2 | 1344.0 | 1436.6 | 1497.7 | 1549.2 | 1648.2 | 1756.6 | 1845.0 | 1934.4 |
| 25°    | 1067.2 | 1145.1 | 1233.5 | 1324.0 | 1436.6 | 1482.9 | 1539.8 | 1654.5 | 1769.2 | 1871.3 | 1981.8 |
| 27.5°  | 1035.6 | 1114.6 | 1201.9 | 1294.5 | 1397.7 | 1466.1 | 1521.9 | 1645.0 | 1785.0 | 1894.5 | 2008.1 |
| 30°    | 1004.1 | 1085.1 | 1169.3 | 1252.4 | 1368.2 | 1433.5 | 1497.7 | 1633.4 | 1793.4 | 1918.7 | 2006.0 |
| 32.5°  | 973.5  | 1041.9 | 1125.1 | 1206.1 | 1320.9 | 1392.4 | 1465.0 | 1621.9 | 1796.6 | 1901.8 | 1943.9 |
| 35°    | 931.4  | 1003.0 | 1070.4 | 1156.7 | 1272.4 | 1343.0 | 1428.2 | 1620.8 | 1782.9 | 1848.1 | 1827.1 |
| 37.5°  | 892.5  | 952.5  | 1016.7 | 1093.5 | 1212.5 | 1304.0 | 1392.4 | 1593.4 | 1737.6 | 1741.8 | 1622.9 |
| 40°    | 849.3  | 898.8  | 952.5  | 1033.5 | 1161.9 | 1252.4 | 1348.2 | 1551.3 | 1655.5 | 1593.4 | 1384.0 |
| 42.5°  | 799.9  | 844.1  | 886.2  | 965.1  | 1105.1 | 1206.1 | 1309.3 | 1498.7 | 1536.6 | 1393.5 | 1175.6 |
| 45°    | 747.3  | 783.0  | 822.0  | 905.1  | 1045.1 | 1145.1 | 1248.2 | 1417.7 | 1378.7 | 1176.7 | 969.3  |
| 47.5°  | 692.5  | 723.0  | 760.9  | 836.7  | 980.9  | 1083.0 | 1180.9 | 1301.9 | 1203.0 | 986.2  | 812.5  |
| 50°    | 637.8  | 662.0  | 698.8  | 776.7  | 915.7  | 1008.3 | 1098.8 | 1177.7 | 1038.8 | 846.2  | 671.5  |
| 52.5°  | 584.1  | 603.1  | 641.0  | 707.3  | 842.0  | 930.4  | 995.6  | 1026.2 | 885.1  | 698.8  | 583.1  |
| 55°    | 527.3  | 548.3  | 573.6  | 641.0  | 774.6  | 839.9  | 883.0  | 882.0  | 736.7  | 592.5  | 482.0  |
| 57.5°  | 472.6  | 491.5  | 513.6  | 581.0  | 689.4  | 733.6  | 770.4  | 752.5  | 614.6  | 485.2  | 413.6  |
| 60°    | 424.1  | 434.7  | 458.9  | 515.7  | 597.8  | 635.7  | 656.7  | 626.2  | 502.0  | 409.4  | 342.1  |
| 62.5°  | 371.5  | 382.0  | 402.0  | 455.7  | 506.2  | 526.2  | 544.1  | 505.2  | 414.7  | 333.6  | 292.6  |
| 65°    | 323.1  | 336.8  | 349.4  | 392.6  | 419.9  | 444.1  | 442.0  | 409.4  | 324.2  | 271.5  | 237.9  |
| 67.5°  | 281.0  | 286.3  | 296.8  | 323.1  | 335.7  | 353.6  | 354.7  | 317.8  | 261.0  | 221.0  | 201.0  |
| 70°    | 235.8  | 241.0  | 248.4  | 261.0  | 269.4  | 273.6  | 271.5  | 238.9  | 196.8  | 172.6  | 154.7  |
| 72.5°  | 196.8  | 195.8  | 201.0  | 201.0  | 209.4  | 208.4  | 202.1  | 176.8  | 149.5  | 129.5  | 118.9  |
| 75°    | 154.7  | 155.8  | 156.8  | 154.7  | 151.6  | 147.3  | 142.1  | 123.1  | 105.2  | 95.8   | 86.3   |
| 77.5°  | 121.0  | 118.9  | 120.0  | 112.6  | 108.4  | 104.2  | 96.8   | 87.4   | 72.6   | 70.5   | 66.3   |
| 80°    | 86.3   | 85.3   | 84.2   | 81.0   | 71.6   | 67.4   | 62.1   | 56.8   | 53.7   | 51.6   | 50.5   |
| 82.5°  | 57.9   | 57.9   | 55.8   | 49.5   | 44.2   | 41.0   | 40.0   | 37.9   | 34.7   | 34.7   | 33.7   |
| 85°    | 34.7   | 33.7   | 31.6   | 25.3   | 22.1   | 22.1   | 22.1   | 22.1   | 20.0   | 20.0   | 18.9   |
| 87.5°  | 13.7   | 12.6   | 9.5    | 9.5    | 8.4    | 8.4    | 8.4    | 7.4    | 7.4    | 6.3    | 6.3    |
| 90°    | 0.5    | 1.5    | 2.5    | 3.5    | 4.5    | 5.0    | 5.7    | 7.0    | 8.3    | 9.6    | 10.9   |
| 92.5°  | 10.4   | 9.8    | 9.2    | 8.6    | 8.0    | 7.7    | 8.2    | 9.1    | 10.0   | 10.9   | 11.8   |
| 95°    | 27.7   | 23.6   | 19.4   | 15.3   | 11.2   | 9.1    | 9.7    | 10.8   | 11.9   | 13.0   | 14.1   |
| 97.5°  | 50.4   | 47.6   | 44.8   | 41.9   | 39.1   | 37.7   | 35.1   | 30.0   | 24.8   | 19.7   | 14.5   |
| 100°   | 76.8   | 78.8   | 80.8   | 82.8   | 84.8   | 85.8   | 77.9   | 62.2   | 46.5   | 30.7   | 15.0   |
| 102.5° | 106.7  | 108.0  | 109.3  | 110.6  | 111.9  | 112.6  | 103.8  | 86.3   | 68.7   | 51.2   | 33.6   |
| 105°   | 135.4  | 136.5  | 137.6  | 138.7  | 139.8  | 140.3  | 135.8  | 126.7  | 117.6  | 108.6  | 99.5   |
| 107.5° | 165.8  | 166.7  | 167.6  | 168.5  | 169.4  | 169.9  | 170.7  | 172.2  | 173.7  | 175.2  | 176.7  |
| 110°   | 196.2  | 197.0  | 197.8  | 198.6  | 199.4  | 199.8  | 200.4  | 201.5  | 202.6  | 203.7  | 204.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 225.3 | 226.0 | 226.7 | 227.4 | 228.1 | 228.5 | 229.1 | 230.2 | 231.3 | 232.4 | 233.5 |
| 115°   | 253.9 | 254.5 | 255.1 | 255.7 | 256.3 | 256.6 | 257.1 | 258.0 | 258.9 | 259.8 | 260.7 |
| 117.5° | 282.1 | 282.8 | 283.5 | 284.2 | 284.9 | 285.2 | 285.5 | 286.0 | 286.5 | 287.0 | 287.5 |
| 120°   | 308.0 | 308.9 | 309.8 | 310.7 | 311.6 | 312.0 | 312.2 | 312.5 | 312.8 | 313.1 | 313.4 |
| 122.5° | 334.3 | 335.0 | 335.7 | 336.4 | 337.1 | 337.5 | 337.7 | 338.1 | 338.5 | 338.9 | 339.3 |
| 125°   | 357.9 | 358.7 | 359.5 | 360.3 | 361.1 | 361.5 | 361.7 | 362.1 | 362.6 | 363.0 | 363.4 |
| 127.5° | 381.5 | 382.3 | 383.1 | 384.0 | 384.8 | 385.2 | 385.4 | 385.9 | 386.4 | 386.9 | 387.4 |
| 130°   | 403.3 | 404.1 | 404.9 | 405.8 | 406.6 | 407.0 | 407.2 | 407.6 | 408.0 | 408.4 | 408.8 |
| 132.5° | 424.2 | 425.0 | 425.8 | 426.7 | 427.5 | 427.9 | 428.0 | 428.3 | 428.6 | 428.9 | 429.2 |
| 135°   | 445.6 | 446.2 | 446.8 | 447.4 | 448.0 | 448.3 | 448.5 | 448.9 | 449.3 | 449.7 | 450.1 |
| 137.5° | 463.7 | 464.5 | 465.3 | 466.2 | 467.0 | 467.4 | 467.5 | 467.7 | 467.9 | 468.1 | 468.3 |
| 140°   | 481.9 | 482.5 | 483.1 | 483.7 | 484.3 | 484.6 | 484.8 | 485.1 | 485.4 | 485.7 | 486.0 |
| 142.5° | 498.7 | 499.3 | 499.9 | 500.5 | 501.1 | 501.4 | 501.6 | 501.9 | 502.2 | 502.5 | 502.8 |
| 145°   | 514.2 | 514.9 | 515.6 | 516.3 | 517.0 | 517.3 | 517.4 | 517.6 | 517.8 | 518.0 | 518.2 |
| 147.5° | 529.1 | 529.6 | 530.1 | 530.6 | 531.1 | 531.4 | 531.5 | 531.7 | 531.9 | 532.1 | 532.3 |
| 150°   | 542.8 | 543.1 | 543.4 | 543.7 | 544.0 | 544.1 | 544.2 | 544.4 | 544.6 | 544.8 | 545.0 |
| 152.5° | 555.0 | 555.1 | 555.2 | 555.3 | 555.4 | 555.5 | 555.5 | 555.6 | 555.7 | 555.8 | 555.9 |
| 155°   | 566.4 | 566.2 | 566.0 | 565.8 | 565.6 | 565.5 | 565.5 | 565.6 | 565.7 | 565.8 | 565.9 |
| 157.5° | 575.5 | 575.5 | 575.5 | 575.5 | 575.5 | 575.5 | 575.4 | 575.3 | 575.2 | 575.1 | 575.0 |
| 160°   | 583.7 | 583.6 | 583.5 | 583.4 | 583.3 | 583.2 | 583.1 | 583.0 | 582.9 | 582.8 | 582.7 |
| 162.5° | 591.4 | 591.1 | 590.8 | 590.5 | 590.2 | 590.0 | 590.0 | 589.9 | 589.8 | 589.7 | 589.6 |
| 165°   | 597.3 | 597.0 | 596.7 | 596.4 | 596.1 | 595.9 | 595.9 | 595.8 | 595.7 | 595.6 | 595.5 |
| 167.5° | 602.3 | 601.9 | 601.5 | 601.1 | 600.7 | 600.5 | 600.5 | 600.5 | 600.5 | 600.5 | 600.5 |
| 170°   | 606.4 | 606.0 | 605.6 | 605.1 | 604.7 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 |
| 172.5° | 609.1 | 608.6 | 608.1 | 607.6 | 607.1 | 606.8 | 606.9 | 607.0 | 607.1 | 607.2 | 607.3 |
| 175°   | 611.4 | 610.9 | 610.4 | 609.9 | 609.4 | 609.1 | 609.1 | 609.2 | 609.3 | 609.4 | 609.5 |
| 177.5° | 612.3 | 611.8 | 611.3 | 610.8 | 610.3 | 610.0 | 610.1 | 610.2 | 610.3 | 610.4 | 610.5 |
| 180°   | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1297.7 | 1297.7 | 1307.2 | 1316.6 | 1311.4 | 1314.5 | 1326.1 | 1321.9 | 1330.3 | 1329.3 | 1332.4 |
| 5°     | 1395.6 | 1407.2 | 1416.6 | 1436.6 | 1439.8 | 1436.6 | 1456.6 | 1461.9 | 1471.4 | 1459.8 | 1465.0 |
| 7.5°   | 1506.1 | 1530.3 | 1553.5 | 1582.9 | 1592.4 | 1594.5 | 1605.0 | 1619.8 | 1632.4 | 1609.2 | 1620.8 |
| 10°    | 1613.4 | 1650.3 | 1697.6 | 1724.0 | 1747.1 | 1755.5 | 1763.9 | 1773.4 | 1788.2 | 1801.8 | 1791.3 |
| 12.5°  | 1729.2 | 1782.9 | 1828.1 | 1875.5 | 1903.9 | 1900.8 | 1925.0 | 1931.3 | 1942.9 | 1946.0 | 1950.2 |
| 15°    | 1823.9 | 1899.7 | 1928.1 | 1998.6 | 2005.0 | 2026.0 | 2053.4 | 2077.6 | 2080.7 | 2074.4 | 2074.4 |
| 17.5°  | 1914.5 | 1979.7 | 2030.2 | 2087.1 | 2098.6 | 2116.5 | 2151.3 | 2162.8 | 2167.0 | 2166.0 | 2166.0 |
| 20°    | 1988.1 | 2031.3 | 2116.5 | 2163.9 | 2182.8 | 2206.0 | 2230.2 | 2244.9 | 2248.1 | 2252.3 | 2246.0 |
| 22.5°  | 2036.5 | 2101.8 | 2171.3 | 2210.2 | 2226.0 | 2234.4 | 2250.2 | 2254.4 | 2249.1 | 2250.2 | 2251.2 |
| 25°    | 2074.4 | 2138.6 | 2180.7 | 2191.3 | 2190.2 | 2179.7 | 2168.1 | 2148.1 | 2146.0 | 2137.6 | 2120.7 |
| 27.5°  | 2085.0 | 2109.2 | 2103.9 | 2060.7 | 2017.6 | 2013.4 | 1943.9 | 1906.0 | 1862.9 | 1869.2 | 1845.0 |
| 30°    | 2028.1 | 1996.5 | 1921.8 | 1812.4 | 1767.1 | 1693.4 | 1615.5 | 1534.5 | 1502.9 | 1468.2 | 1532.4 |
| 32.5°  | 1889.2 | 1776.6 | 1644.0 | 1501.9 | 1426.1 | 1360.8 | 1277.7 | 1218.8 | 1185.1 | 1156.7 | 1211.4 |
| 35°    | 1679.7 | 1504.0 | 1328.2 | 1193.5 | 1131.4 | 1072.5 | 994.6  | 965.1  | 923.0  | 927.2  | 932.5  |
| 37.5°  | 1410.3 | 1216.7 | 1084.0 | 951.4  | 910.4  | 886.2  | 829.3  | 784.1  | 769.4  | 765.1  | 765.1  |
| 40°    | 1157.7 | 998.8  | 880.9  | 776.7  | 745.2  | 725.2  | 679.9  | 658.8  | 643.1  | 638.9  | 644.1  |
| 42.5°  | 957.8  | 822.0  | 730.4  | 661.0  | 638.9  | 613.6  | 594.6  | 568.3  | 565.2  | 557.8  | 567.3  |
| 45°    | 804.1  | 686.2  | 617.8  | 567.3  | 548.3  | 538.9  | 517.8  | 502.0  | 495.7  | 494.7  | 502.0  |
| 47.5°  | 682.0  | 590.4  | 530.4  | 498.9  | 484.1  | 474.7  | 456.8  | 450.5  | 444.1  | 446.2  | 443.1  |
| 50°    | 572.5  | 504.1  | 465.2  | 436.8  | 427.3  | 417.8  | 406.3  | 399.9  | 396.8  | 396.8  | 395.7  |
| 52.5°  | 491.5  | 434.7  | 409.4  | 383.1  | 378.9  | 373.6  | 361.0  | 356.8  | 351.5  | 350.5  | 354.7  |
| 55°    | 421.0  | 382.0  | 356.8  | 341.0  | 336.8  | 326.3  | 321.0  | 315.7  | 312.6  | 310.5  | 311.5  |
| 57.5°  | 359.9  | 330.5  | 313.6  | 300.0  | 292.6  | 288.4  | 278.9  | 277.9  | 275.7  | 275.7  | 274.7  |
| 60°    | 309.4  | 288.4  | 268.4  | 260.0  | 254.7  | 249.4  | 248.4  | 242.1  | 238.9  | 241.0  | 240.0  |
| 62.5°  | 262.1  | 245.2  | 233.6  | 224.2  | 221.0  | 216.8  | 213.7  | 211.5  | 208.4  | 209.4  | 209.4  |
| 65°    | 218.9  | 205.2  | 196.8  | 188.4  | 187.3  | 183.1  | 182.1  | 180.0  | 180.0  | 178.9  | 181.0  |
| 67.5°  | 180.0  | 170.5  | 163.1  | 157.9  | 154.7  | 155.8  | 151.6  | 148.4  | 148.4  | 147.3  | 150.5  |
| 70°    | 143.1  | 137.9  | 130.5  | 124.2  | 120.0  | 120.0  | 114.7  | 113.7  | 113.7  | 113.7  | 112.6  |
| 72.5°  | 110.5  | 101.0  | 97.9   | 95.8   | 95.8   | 95.8   | 93.7   | 93.7   | 92.6   | 93.7   | 92.6   |
| 75°    | 82.1   | 81.0   | 78.9   | 77.9   | 77.9   | 76.8   | 75.8   | 75.8   | 75.8   | 75.8   | 75.8   |
| 77.5°  | 64.2   | 64.2   | 62.1   | 61.0   | 61.0   | 61.0   | 60.0   | 60.0   | 58.9   | 58.9   | 58.9   |
| 80°    | 47.4   | 47.4   | 45.3   | 45.3   | 45.3   | 44.2   | 44.2   | 44.2   | 45.3   | 44.2   | 44.2   |
| 82.5°  | 32.6   | 32.6   | 31.6   | 32.6   | 31.6   | 30.5   | 30.5   | 30.5   | 29.5   | 30.5   | 30.5   |
| 85°    | 18.9   | 18.9   | 17.9   | 16.8   | 17.9   | 17.9   | 16.8   | 17.9   | 16.8   | 17.9   | 16.8   |
| 87.5°  | 7.4    | 6.3    | 6.3    | 6.3    | 5.3    | 6.3    | 5.3    | 5.3    | 6.3    | 5.3    | 6.3    |
| 90°    | 11.3   | 11.7   | 12.1   | 12.5   | 12.7   | 12.8   | 13.0   | 13.2   | 13.4   | 13.6   | 13.4   |
| 92.5°  | 12.5   | 13.2   | 13.9   | 14.6   | 15.0   | 15.0   | 15.1   | 15.2   | 15.3   | 15.4   | 15.3   |
| 95°    | 14.8   | 15.5   | 16.2   | 16.9   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   |
| 97.5°  | 15.3   | 16.1   | 17.0   | 17.8   | 18.2   | 18.2   | 18.3   | 18.4   | 18.5   | 18.6   | 18.5   |
| 100°   | 15.8   | 16.6   | 17.4   | 18.2   | 18.6   | 18.7   | 18.8   | 18.9   | 19.0   | 19.1   | 19.0   |
| 102.5° | 30.3   | 26.9   | 23.6   | 20.3   | 18.6   | 18.7   | 18.9   | 19.1   | 19.3   | 19.5   | 19.3   |
| 105°   | 81.6   | 63.8   | 45.9   | 28.0   | 19.1   | 19.2   | 19.4   | 19.6   | 19.8   | 20.0   | 19.8   |
| 107.5° | 161.1  | 145.6  | 130.0  | 114.5  | 106.7  | 100.1  | 86.9   | 73.6   | 60.4   | 47.2   | 60.4   |
| 110°   | 201.5  | 198.2  | 194.9  | 191.6  | 189.9  | 182.7  | 168.2  | 153.8  | 139.3  | 124.9  | 139.3  |

TEST NUMBER: P1031246

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 234.4 | 235.3 | 236.2 | 237.1 | 237.5 | 237.4 | 237.2 | 237.0 | 236.8 | 236.6 | 236.8 |
| 115°   | 261.7 | 262.7 | 263.8 | 264.8 | 265.3 | 265.5 | 265.9 | 266.3 | 266.7 | 267.1 | 266.7 |
| 117.5° | 288.3 | 289.1 | 289.9 | 290.7 | 291.1 | 291.2 | 291.3 | 291.4 | 291.5 | 291.6 | 291.5 |
| 120°   | 314.2 | 315.0 | 315.8 | 316.6 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 |
| 122.5° | 339.8 | 340.3 | 340.8 | 341.3 | 341.6 | 341.6 | 341.7 | 341.8 | 341.9 | 342.0 | 341.9 |
| 125°   | 363.6 | 363.8 | 364.0 | 364.2 | 364.3 | 364.4 | 364.6 | 364.8 | 365.0 | 365.2 | 365.0 |
| 127.5° | 387.7 | 388.0 | 388.3 | 388.6 | 388.8 | 388.7 | 388.5 | 388.3 | 388.1 | 387.9 | 388.1 |
| 130°   | 409.2 | 409.6 | 410.0 | 410.4 | 410.6 | 410.5 | 410.3 | 410.1 | 409.9 | 409.7 | 409.9 |
| 132.5° | 429.6 | 430.0 | 430.4 | 430.8 | 431.0 | 430.9 | 430.6 | 430.3 | 430.0 | 429.7 | 430.0 |
| 135°   | 450.4 | 450.7 | 451.0 | 451.3 | 451.5 | 451.3 | 451.0 | 450.7 | 450.4 | 450.1 | 450.4 |
| 137.5° | 468.8 | 469.3 | 469.8 | 470.3 | 470.6 | 470.5 | 470.3 | 470.0 | 469.8 | 469.6 | 469.8 |
| 140°   | 486.4 | 486.8 | 487.2 | 487.6 | 487.8 | 487.7 | 487.5 | 487.3 | 487.1 | 486.9 | 487.1 |
| 142.5° | 503.1 | 503.4 | 503.7 | 504.0 | 504.2 | 504.0 | 503.7 | 503.4 | 503.1 | 502.8 | 503.1 |
| 145°   | 518.4 | 518.6 | 518.9 | 519.1 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 |
| 147.5° | 532.5 | 532.7 | 532.9 | 533.1 | 533.2 | 533.0 | 532.5 | 532.0 | 531.5 | 531.0 | 531.5 |
| 150°   | 545.2 | 545.4 | 545.7 | 545.9 | 546.0 | 545.8 | 545.5 | 545.2 | 544.9 | 544.6 | 544.9 |
| 152.5° | 556.3 | 556.7 | 557.2 | 557.6 | 557.8 | 557.5 | 557.0 | 556.5 | 556.0 | 555.5 | 556.0 |
| 155°   | 566.4 | 566.9 | 567.4 | 567.9 | 568.2 | 567.9 | 567.3 | 566.7 | 566.1 | 565.5 | 566.1 |
| 157.5° | 575.6 | 576.2 | 576.8 | 577.4 | 577.7 | 577.3 | 576.5 | 575.7 | 574.9 | 574.1 | 574.9 |
| 160°   | 583.3 | 583.9 | 584.6 | 585.2 | 585.5 | 585.1 | 584.4 | 583.7 | 583.0 | 582.3 | 583.0 |
| 162.5° | 590.3 | 591.0 | 591.7 | 592.4 | 592.7 | 592.4 | 591.8 | 591.2 | 590.6 | 590.0 | 590.6 |
| 165°   | 596.3 | 597.1 | 597.9 | 598.7 | 599.1 | 598.7 | 598.0 | 597.3 | 596.6 | 595.9 | 596.6 |
| 167.5° | 601.3 | 602.1 | 602.9 | 603.7 | 604.1 | 603.7 | 602.9 | 602.1 | 601.3 | 600.5 | 601.3 |
| 170°   | 605.3 | 606.1 | 607.0 | 607.8 | 608.2 | 607.8 | 607.0 | 606.1 | 605.3 | 604.5 | 605.3 |
| 172.5° | 608.1 | 608.9 | 609.7 | 610.5 | 610.9 | 610.4 | 609.5 | 608.6 | 607.7 | 606.8 | 607.7 |
| 175°   | 610.2 | 610.9 | 611.6 | 612.3 | 612.7 | 612.3 | 611.5 | 610.7 | 609.9 | 609.1 | 609.9 |
| 177.5° | 611.3 | 612.1 | 612.9 | 613.7 | 614.1 | 613.6 | 612.6 | 611.5 | 610.5 | 609.5 | 610.5 |
| 180°   | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1327.2 | 1320.9 | 1316.6 | 1313.5 | 1310.3 | 1319.8 | 1307.2 | 1293.5 | 1284.0 | 1277.7 | 1275.6 |
| 5°     | 1466.1 | 1452.4 | 1440.8 | 1431.4 | 1433.5 | 1433.5 | 1411.4 | 1387.2 | 1366.1 | 1354.5 | 1341.9 |
| 7.5°   | 1627.1 | 1612.4 | 1589.2 | 1584.0 | 1579.8 | 1553.5 | 1531.4 | 1487.1 | 1460.8 | 1434.5 | 1411.4 |
| 10°    | 1787.1 | 1768.2 | 1746.1 | 1738.7 | 1728.2 | 1695.5 | 1661.9 | 1605.0 | 1572.4 | 1524.0 | 1493.5 |
| 12.5°  | 1936.6 | 1913.4 | 1891.3 | 1886.0 | 1870.2 | 1841.8 | 1783.9 | 1725.0 | 1669.2 | 1617.7 | 1564.0 |
| 15°    | 2061.8 | 2055.5 | 2021.8 | 2000.8 | 1966.0 | 1927.1 | 1914.5 | 1834.5 | 1763.9 | 1710.3 | 1613.4 |
| 17.5°  | 2167.0 | 2137.6 | 2106.0 | 2092.3 | 2078.6 | 2033.4 | 1988.1 | 1906.0 | 1830.3 | 1751.3 | 1689.2 |
| 20°    | 2251.2 | 2218.6 | 2196.5 | 2176.5 | 2170.2 | 2118.6 | 2047.1 | 1974.4 | 1891.3 | 1802.9 | 1721.8 |
| 22.5°  | 2255.5 | 2251.2 | 2236.5 | 2224.9 | 2212.3 | 2178.6 | 2121.8 | 2031.3 | 1942.9 | 1846.0 | 1739.7 |
| 25°    | 2168.1 | 2161.8 | 2203.9 | 2193.4 | 2201.8 | 2189.1 | 2158.6 | 2082.8 | 1979.7 | 1866.0 | 1758.7 |
| 27.5°  | 1905.0 | 1969.2 | 2035.5 | 2058.6 | 2074.4 | 2119.7 | 2134.4 | 2092.3 | 2009.2 | 1888.1 | 1768.2 |
| 30°    | 1547.1 | 1632.4 | 1739.7 | 1797.6 | 1841.8 | 1926.0 | 2035.5 | 2049.2 | 2010.2 | 1913.4 | 1766.1 |
| 32.5°  | 1214.6 | 1292.4 | 1378.7 | 1447.2 | 1506.1 | 1678.7 | 1826.0 | 1932.3 | 1951.3 | 1900.8 | 1771.3 |
| 35°    | 978.8  | 1012.5 | 1094.6 | 1159.8 | 1239.8 | 1387.2 | 1560.8 | 1732.4 | 1848.1 | 1854.5 | 1755.5 |
| 37.5°  | 807.2  | 825.1  | 896.7  | 933.5  | 980.9  | 1110.4 | 1272.4 | 1496.6 | 1676.6 | 1761.8 | 1711.3 |
| 40°    | 668.3  | 709.4  | 750.4  | 771.5  | 805.1  | 894.6  | 1050.4 | 1226.1 | 1449.3 | 1607.1 | 1642.9 |
| 42.5°  | 579.9  | 597.8  | 624.1  | 653.6  | 674.6  | 752.5  | 856.7  | 1017.7 | 1218.8 | 1438.7 | 1537.7 |
| 45°    | 511.5  | 517.8  | 545.2  | 564.1  | 586.2  | 641.0  | 714.6  | 849.3  | 1026.2 | 1243.0 | 1411.4 |
| 47.5°  | 454.7  | 467.3  | 482.0  | 493.6  | 508.3  | 550.4  | 613.6  | 711.5  | 867.2  | 1060.9 | 1241.9 |
| 50°    | 404.2  | 411.5  | 430.5  | 435.7  | 446.2  | 475.7  | 524.1  | 598.9  | 727.3  | 882.0  | 1069.3 |
| 52.5°  | 356.8  | 370.5  | 377.8  | 385.2  | 394.7  | 418.9  | 450.5  | 511.5  | 608.3  | 753.6  | 912.5  |
| 55°    | 320.0  | 324.2  | 334.7  | 341.0  | 348.4  | 365.2  | 392.6  | 437.8  | 513.6  | 629.4  | 779.9  |
| 57.5°  | 284.2  | 284.2  | 294.7  | 300.0  | 307.3  | 320.0  | 344.2  | 378.9  | 433.6  | 519.9  | 657.8  |
| 60°    | 246.3  | 247.3  | 255.8  | 262.1  | 264.2  | 276.8  | 296.8  | 324.2  | 366.3  | 429.4  | 542.0  |
| 62.5°  | 212.6  | 217.9  | 222.1  | 224.2  | 231.5  | 238.9  | 255.8  | 274.7  | 304.2  | 359.9  | 439.9  |
| 65°    | 184.2  | 185.2  | 188.4  | 190.5  | 193.7  | 202.1  | 214.7  | 227.3  | 252.6  | 293.6  | 358.9  |
| 67.5°  | 151.6  | 155.8  | 160.0  | 160.0  | 163.1  | 167.3  | 180.0  | 190.5  | 209.4  | 233.6  | 277.9  |
| 70°    | 113.7  | 115.8  | 122.1  | 125.2  | 129.5  | 136.8  | 143.1  | 149.5  | 164.2  | 182.1  | 215.8  |
| 72.5°  | 94.7   | 94.7   | 96.8   | 97.9   | 97.9   | 103.1  | 112.6  | 118.9  | 126.3  | 138.9  | 162.1  |
| 75°    | 75.8   | 75.8   | 78.9   | 77.9   | 80.0   | 82.1   | 83.1   | 87.4   | 91.6   | 101.0  | 114.7  |
| 77.5°  | 60.0   | 61.0   | 61.0   | 62.1   | 62.1   | 63.1   | 64.2   | 66.3   | 68.4   | 73.7   | 80.0   |
| 80°    | 44.2   | 45.3   | 45.3   | 46.3   | 46.3   | 47.4   | 48.4   | 49.5   | 51.6   | 53.7   | 56.8   |
| 82.5°  | 30.5   | 31.6   | 31.6   | 32.6   | 31.6   | 32.6   | 33.7   | 33.7   | 34.7   | 36.8   | 37.9   |
| 85°    | 17.9   | 17.9   | 18.9   | 17.9   | 17.9   | 17.9   | 18.9   | 18.9   | 20.0   | 23.2   | 23.2   |
| 87.5°  | 5.3    | 6.3    | 5.3    | 6.3    | 6.3    | 6.3    | 6.3    | 7.4    | 7.4    | 8.4    | 9.5    |
| 90°    | 13.2   | 13.0   | 12.8   | 12.7   | 12.5   | 12.1   | 11.7   | 11.3   | 10.9   | 9.6    | 8.3    |
| 92.5°  | 15.2   | 15.1   | 15.0   | 15.0   | 14.6   | 13.9   | 13.2   | 12.5   | 11.8   | 10.9   | 10.0   |
| 95°    | 17.3   | 17.3   | 17.3   | 17.3   | 16.9   | 16.2   | 15.5   | 14.8   | 14.1   | 13.0   | 11.9   |
| 97.5°  | 18.4   | 18.3   | 18.2   | 18.2   | 17.8   | 17.0   | 16.1   | 15.3   | 14.5   | 19.7   | 24.8   |
| 100°   | 18.9   | 18.8   | 18.7   | 18.6   | 18.2   | 17.4   | 16.6   | 15.8   | 15.0   | 30.7   | 46.5   |
| 102.5° | 19.1   | 18.9   | 18.7   | 18.6   | 20.3   | 23.6   | 26.9   | 30.3   | 33.6   | 51.2   | 68.7   |
| 105°   | 19.6   | 19.4   | 19.2   | 19.1   | 28.0   | 45.9   | 63.8   | 81.6   | 99.5   | 108.6  | 117.6  |
| 107.5° | 73.6   | 86.9   | 100.1  | 106.7  | 114.5  | 130.0  | 145.6  | 161.1  | 176.7  | 175.2  | 173.7  |
| 110°   | 153.8  | 168.2  | 182.7  | 189.9  | 191.6  | 194.9  | 198.2  | 201.5  | 204.8  | 203.7  | 202.6  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 237.0 | 237.2 | 237.4 | 237.5  | 237.1 | 236.2 | 235.3 | 234.4 | 233.5 | 232.4 | 231.3 |
| 115°   | 266.3 | 265.9 | 265.5 | 265.3  | 264.8 | 263.8 | 262.7 | 261.7 | 260.7 | 259.8 | 258.9 |
| 117.5° | 291.4 | 291.3 | 291.2 | 291.1  | 290.7 | 289.9 | 289.1 | 288.3 | 287.5 | 287.0 | 286.5 |
| 120°   | 317.0 | 317.0 | 317.0 | 317.0  | 316.6 | 315.8 | 315.0 | 314.2 | 313.4 | 313.1 | 312.8 |
| 122.5° | 341.8 | 341.7 | 341.6 | 341.6  | 341.3 | 340.8 | 340.3 | 339.8 | 339.3 | 338.9 | 338.5 |
| 125°   | 364.8 | 364.6 | 364.4 | 364.3  | 364.2 | 364.0 | 363.8 | 363.6 | 363.4 | 363.0 | 362.6 |
| 127.5° | 388.3 | 388.5 | 388.7 | 388.8  | 388.6 | 388.3 | 388.0 | 387.7 | 387.4 | 386.9 | 386.4 |
| 130°   | 410.1 | 410.3 | 410.5 | 410.6  | 410.4 | 410.0 | 409.6 | 409.2 | 408.8 | 408.4 | 408.0 |
| 132.5° | 430.3 | 430.6 | 430.9 | 431.0  | 430.8 | 430.4 | 430.0 | 429.6 | 429.2 | 428.9 | 428.6 |
| 135°   | 450.7 | 451.0 | 451.3 | 451.5  | 451.3 | 451.0 | 450.7 | 450.4 | 450.1 | 449.7 | 449.3 |
| 137.5° | 470.0 | 470.3 | 470.5 | 470.6  | 470.3 | 469.8 | 469.3 | 468.8 | 468.3 | 468.1 | 467.9 |
| 140°   | 487.3 | 487.5 | 487.7 | 487.8  | 487.6 | 487.2 | 486.8 | 486.4 | 486.0 | 485.7 | 485.4 |
| 142.5° | 503.4 | 503.7 | 504.0 | 504.2  | 504.0 | 503.7 | 503.4 | 503.1 | 502.8 | 502.5 | 502.2 |
| 145°   | 519.2 | 519.2 | 519.2 | 519.2  | 519.1 | 518.9 | 518.6 | 518.4 | 518.2 | 518.0 | 517.8 |
| 147.5° | 532.0 | 532.5 | 533.0 | 533.2  | 533.1 | 532.9 | 532.7 | 532.5 | 532.3 | 532.1 | 531.9 |
| 150°   | 545.2 | 545.5 | 545.8 | 546.0  | 545.9 | 545.7 | 545.4 | 545.2 | 545.0 | 544.8 | 544.6 |
| 152.5° | 556.5 | 557.0 | 557.5 | 557.8  | 557.6 | 557.2 | 556.7 | 556.3 | 555.9 | 555.8 | 555.7 |
| 155°   | 566.7 | 567.3 | 567.9 | 568.2  | 567.9 | 567.4 | 566.9 | 566.4 | 565.9 | 565.8 | 565.7 |
| 157.5° | 575.7 | 576.5 | 577.3 | 577.7  | 577.4 | 576.8 | 576.2 | 575.6 | 575.0 | 575.1 | 575.2 |
| 160°   | 583.7 | 584.4 | 585.1 | 585.5  | 585.2 | 584.6 | 583.9 | 583.3 | 582.7 | 582.8 | 582.9 |
| 162.5° | 591.2 | 591.8 | 592.4 | 592.7  | 592.4 | 591.7 | 591.0 | 590.3 | 589.6 | 589.7 | 589.8 |
| 165°   | 597.3 | 598.0 | 598.7 | 599.1  | 598.7 | 597.9 | 597.1 | 596.3 | 595.5 | 595.6 | 595.7 |
| 167.5° | 602.1 | 602.9 | 603.7 | 604.1  | 603.7 | 602.9 | 602.1 | 601.3 | 600.5 | 600.5 | 600.5 |
| 170°   | 606.1 | 607.0 | 607.8 | 608.2  | 607.8 | 607.0 | 606.1 | 605.3 | 604.5 | 604.5 | 604.5 |
| 172.5° | 608.6 | 609.5 | 610.4 | 610.9  | 610.5 | 609.7 | 608.9 | 608.1 | 607.3 | 607.2 | 607.1 |
| 175°   | 610.7 | 611.5 | 612.3 | 612.7  | 612.3 | 611.6 | 610.9 | 610.2 | 609.5 | 609.4 | 609.3 |
| 177.5° | 611.5 | 612.6 | 613.6 | 614.1  | 613.7 | 612.9 | 612.1 | 611.3 | 610.5 | 610.4 | 610.3 |
| 180°   | 611.4 | 611.4 | 611.4 | 611.4  | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1272.4 | 1267.2 | 1261.9 | 1261.9 | 1250.3 | 1239.8 | 1234.6 | 1236.7 | 1230.3 | 1221.9 | 1213.5 |
| 5°     | 1328.2 | 1307.2 | 1303.0 | 1291.4 | 1275.6 | 1253.5 | 1241.9 | 1231.4 | 1218.8 | 1201.9 | 1186.1 |
| 7.5°   | 1379.8 | 1352.4 | 1337.7 | 1326.1 | 1295.6 | 1265.1 | 1239.8 | 1223.0 | 1200.9 | 1175.6 | 1156.7 |
| 10°    | 1447.2 | 1396.6 | 1380.8 | 1354.5 | 1311.4 | 1268.2 | 1238.8 | 1211.4 | 1180.9 | 1151.4 | 1126.1 |
| 12.5°  | 1500.8 | 1442.9 | 1413.5 | 1387.2 | 1331.4 | 1276.7 | 1227.2 | 1193.5 | 1156.7 | 1124.0 | 1091.4 |
| 15°    | 1561.9 | 1496.6 | 1445.0 | 1413.5 | 1343.0 | 1276.7 | 1220.9 | 1173.5 | 1132.5 | 1092.5 | 1064.1 |
| 17.5°  | 1591.3 | 1509.2 | 1486.1 | 1440.8 | 1338.7 | 1272.4 | 1204.0 | 1153.5 | 1104.0 | 1057.7 | 1024.1 |
| 20°    | 1637.7 | 1541.9 | 1484.0 | 1453.5 | 1363.0 | 1265.1 | 1185.1 | 1127.2 | 1075.6 | 1026.2 | 990.4  |
| 22.5°  | 1640.8 | 1536.6 | 1498.7 | 1440.8 | 1329.3 | 1243.0 | 1168.2 | 1097.7 | 1037.7 | 991.4  | 954.6  |
| 25°    | 1633.4 | 1527.1 | 1474.5 | 1428.2 | 1335.6 | 1230.3 | 1134.6 | 1065.1 | 1006.2 | 952.5  | 909.3  |
| 27.5°  | 1630.3 | 1499.8 | 1450.3 | 1404.0 | 1299.8 | 1193.5 | 1114.6 | 1035.6 | 968.3  | 920.9  | 876.7  |
| 30°    | 1626.1 | 1470.3 | 1410.3 | 1356.6 | 1260.9 | 1165.1 | 1070.4 | 1002.0 | 937.8  | 877.8  | 833.6  |
| 32.5°  | 1598.7 | 1430.3 | 1369.3 | 1312.4 | 1209.3 | 1113.5 | 1038.8 | 966.2  | 896.7  | 840.9  | 800.9  |
| 35°    | 1590.3 | 1393.5 | 1313.5 | 1252.4 | 1151.4 | 1066.2 | 987.2  | 927.2  | 862.0  | 806.2  | 758.8  |
| 37.5°  | 1566.1 | 1355.6 | 1269.3 | 1191.4 | 1086.2 | 1005.1 | 947.2  | 887.2  | 824.1  | 764.1  | 726.2  |
| 40°    | 1524.0 | 1311.4 | 1213.5 | 1133.5 | 1025.1 | 943.0  | 889.3  | 845.1  | 783.0  | 729.4  | 683.1  |
| 42.5°  | 1461.9 | 1266.1 | 1160.9 | 1076.7 | 956.7  | 879.9  | 835.7  | 793.6  | 740.9  | 685.2  | 647.3  |
| 45°    | 1390.3 | 1206.1 | 1108.3 | 1014.6 | 892.5  | 817.8  | 771.5  | 746.2  | 697.8  | 650.4  | 606.2  |
| 47.5°  | 1292.4 | 1144.0 | 1047.2 | 950.4  | 826.2  | 753.6  | 716.7  | 691.5  | 657.8  | 606.2  | 570.4  |
| 50°    | 1169.3 | 1064.1 | 972.5  | 886.2  | 760.9  | 691.5  | 654.6  | 635.7  | 607.3  | 570.4  | 535.7  |
| 52.5°  | 1032.5 | 971.4  | 895.7  | 815.7  | 694.6  | 629.4  | 595.7  | 581.0  | 559.9  | 525.2  | 495.7  |
| 55°    | 894.6  | 868.3  | 816.7  | 737.8  | 625.2  | 571.5  | 542.0  | 523.1  | 507.3  | 482.0  | 456.8  |
| 57.5°  | 771.5  | 758.8  | 723.0  | 662.0  | 567.3  | 511.5  | 486.2  | 473.6  | 461.0  | 442.0  | 416.8  |
| 60°    | 644.1  | 657.8  | 621.0  | 590.4  | 504.1  | 455.7  | 433.6  | 419.9  | 413.6  | 396.8  | 381.0  |
| 62.5°  | 533.6  | 546.2  | 525.2  | 502.0  | 441.0  | 397.8  | 384.2  | 371.5  | 367.3  | 352.6  | 336.8  |
| 65°    | 433.6  | 449.4  | 433.6  | 421.0  | 384.2  | 348.4  | 331.5  | 325.2  | 321.0  | 311.5  | 298.9  |
| 67.5°  | 345.2  | 361.0  | 353.6  | 337.8  | 326.3  | 296.8  | 287.3  | 281.0  | 278.9  | 271.5  | 261.0  |
| 70°    | 260.0  | 282.1  | 284.2  | 274.7  | 264.2  | 250.5  | 244.2  | 242.1  | 236.8  | 230.5  | 224.2  |
| 72.5°  | 187.3  | 212.6  | 213.7  | 213.7  | 207.3  | 207.3  | 201.0  | 197.9  | 197.9  | 191.6  | 184.2  |
| 75°    | 137.9  | 154.7  | 156.8  | 158.9  | 162.1  | 165.2  | 161.0  | 161.0  | 160.0  | 153.7  | 150.5  |
| 77.5°  | 91.6   | 106.3  | 111.6  | 118.9  | 123.1  | 123.1  | 125.2  | 127.3  | 125.2  | 122.1  | 120.0  |
| 80°    | 58.9   | 69.5   | 75.8   | 80.0   | 86.3   | 89.5   | 92.6   | 93.7   | 91.6   | 90.5   | 87.4   |
| 82.5°  | 38.9   | 42.1   | 45.3   | 50.5   | 57.9   | 63.1   | 63.1   | 62.1   | 64.2   | 63.1   | 62.1   |
| 85°    | 22.1   | 24.2   | 25.3   | 26.3   | 30.5   | 35.8   | 36.8   | 37.9   | 40.0   | 37.9   | 35.8   |
| 87.5°  | 8.4    | 9.5    | 9.5    | 9.5    | 11.6   | 12.6   | 15.8   | 20.0   | 18.9   | 16.8   | 16.8   |
| 90°    | 7.0    | 5.7    | 5.0    | 4.5    | 3.5    | 2.5    | 1.5    | 0.5    | 1.5    | 2.5    | 3.5    |
| 92.5°  | 9.1    | 8.2    | 7.7    | 8.0    | 8.6    | 9.2    | 9.8    | 10.4   | 9.8    | 9.2    | 8.6    |
| 95°    | 10.8   | 9.7    | 9.1    | 11.2   | 15.3   | 19.4   | 23.6   | 27.7   | 23.6   | 19.4   | 15.3   |
| 97.5°  | 30.0   | 35.1   | 37.7   | 39.1   | 41.9   | 44.8   | 47.6   | 50.4   | 47.6   | 44.8   | 41.9   |
| 100°   | 62.2   | 77.9   | 85.8   | 84.8   | 82.8   | 80.8   | 78.8   | 76.8   | 78.8   | 80.8   | 82.8   |
| 102.5° | 86.3   | 103.8  | 112.6  | 111.9  | 110.6  | 109.3  | 108.0  | 106.7  | 108.0  | 109.3  | 110.6  |
| 105°   | 126.7  | 135.8  | 140.3  | 139.8  | 138.7  | 137.6  | 136.5  | 135.4  | 136.5  | 137.6  | 138.7  |
| 107.5° | 172.2  | 170.7  | 169.9  | 169.4  | 168.5  | 167.6  | 166.7  | 165.8  | 166.7  | 167.6  | 168.5  |
| 110°   | 201.5  | 200.4  | 199.8  | 199.4  | 198.6  | 197.8  | 197.0  | 196.2  | 197.0  | 197.8  | 198.6  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 230.2 | 229.1 | 228.5  | 228.1 | 227.4 | 226.7 | 226.0 | 225.3 | 226.0 | 226.7 | 227.4 |
| 115°   | 258.0 | 257.1 | 256.6  | 256.3 | 255.7 | 255.1 | 254.5 | 253.9 | 254.5 | 255.1 | 255.7 |
| 117.5° | 286.0 | 285.5 | 285.2  | 284.9 | 284.2 | 283.5 | 282.8 | 282.1 | 282.8 | 283.5 | 284.2 |
| 120°   | 312.5 | 312.2 | 312.0  | 311.6 | 310.7 | 309.8 | 308.9 | 308.0 | 308.9 | 309.8 | 310.7 |
| 122.5° | 338.1 | 337.7 | 337.5  | 337.1 | 336.4 | 335.7 | 335.0 | 334.3 | 335.0 | 335.7 | 336.4 |
| 125°   | 362.1 | 361.7 | 361.5  | 361.1 | 360.3 | 359.5 | 358.7 | 357.9 | 358.7 | 359.5 | 360.3 |
| 127.5° | 385.9 | 385.4 | 385.2  | 384.8 | 384.0 | 383.1 | 382.3 | 381.5 | 382.3 | 383.1 | 384.0 |
| 130°   | 407.6 | 407.2 | 407.0  | 406.6 | 405.8 | 404.9 | 404.1 | 403.3 | 404.1 | 404.9 | 405.8 |
| 132.5° | 428.3 | 428.0 | 427.9  | 427.5 | 426.7 | 425.8 | 425.0 | 424.2 | 425.0 | 425.8 | 426.7 |
| 135°   | 448.9 | 448.5 | 448.3  | 448.0 | 447.4 | 446.8 | 446.2 | 445.6 | 446.2 | 446.8 | 447.4 |
| 137.5° | 467.7 | 467.5 | 467.4  | 467.0 | 466.2 | 465.3 | 464.5 | 463.7 | 464.5 | 465.3 | 466.2 |
| 140°   | 485.1 | 484.8 | 484.6  | 484.3 | 483.7 | 483.1 | 482.5 | 481.9 | 482.5 | 483.1 | 483.7 |
| 142.5° | 501.9 | 501.6 | 501.4  | 501.1 | 500.5 | 499.9 | 499.3 | 498.7 | 499.3 | 499.9 | 500.5 |
| 145°   | 517.6 | 517.4 | 517.3  | 517.0 | 516.3 | 515.6 | 514.9 | 514.2 | 514.9 | 515.6 | 516.3 |
| 147.5° | 531.7 | 531.5 | 531.4  | 531.1 | 530.6 | 530.1 | 529.6 | 529.1 | 529.6 | 530.1 | 530.6 |
| 150°   | 544.4 | 544.2 | 544.1  | 544.0 | 543.7 | 543.4 | 543.1 | 542.8 | 543.1 | 543.4 | 543.7 |
| 152.5° | 555.6 | 555.5 | 555.5  | 555.4 | 555.3 | 555.2 | 555.1 | 555.0 | 555.1 | 555.2 | 555.3 |
| 155°   | 565.6 | 565.5 | 565.5  | 565.6 | 565.8 | 566.0 | 566.2 | 566.4 | 566.2 | 566.0 | 565.8 |
| 157.5° | 575.3 | 575.4 | 575.5  | 575.5 | 575.5 | 575.5 | 575.5 | 575.5 | 575.5 | 575.5 | 575.5 |
| 160°   | 583.0 | 583.1 | 583.2  | 583.3 | 583.4 | 583.5 | 583.6 | 583.7 | 583.6 | 583.5 | 583.4 |
| 162.5° | 589.9 | 590.0 | 590.0  | 590.2 | 590.5 | 590.8 | 591.1 | 591.4 | 591.1 | 590.8 | 590.5 |
| 165°   | 595.8 | 595.9 | 595.9  | 596.1 | 596.4 | 596.7 | 597.0 | 597.3 | 597.0 | 596.7 | 596.4 |
| 167.5° | 600.5 | 600.5 | 600.5  | 600.7 | 601.1 | 601.5 | 601.9 | 602.3 | 601.9 | 601.5 | 601.1 |
| 170°   | 604.5 | 604.5 | 604.5  | 604.7 | 605.1 | 605.6 | 606.0 | 606.4 | 606.0 | 605.6 | 605.1 |
| 172.5° | 607.0 | 606.9 | 606.8  | 607.1 | 607.6 | 608.1 | 608.6 | 609.1 | 608.6 | 608.1 | 607.6 |
| 175°   | 609.2 | 609.1 | 609.1  | 609.4 | 609.9 | 610.4 | 610.9 | 611.4 | 610.9 | 610.4 | 609.9 |
| 177.5° | 610.2 | 610.1 | 610.0  | 610.3 | 610.8 | 611.3 | 611.8 | 612.3 | 611.8 | 611.3 | 610.8 |
| 180°   | 611.4 | 611.4 | 611.4  | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1213.5 | 1208.2 | 1206.1 | 1200.9 | 1188.2 | 1179.8 | 1170.4 | 1164.0 | 1165.1 | 1159.8 | 1163.0 |
| 5°     | 1175.6 | 1174.6 | 1167.2 | 1156.7 | 1138.8 | 1129.3 | 1112.5 | 1104.0 | 1099.8 | 1100.9 | 1094.6 |
| 7.5°   | 1144.0 | 1134.6 | 1129.3 | 1112.5 | 1095.6 | 1075.6 | 1061.9 | 1054.6 | 1048.3 | 1041.9 | 1037.7 |
| 10°    | 1108.3 | 1099.8 | 1091.4 | 1073.5 | 1050.4 | 1031.4 | 1012.5 | 1005.1 | 995.6  | 991.4  | 988.3  |
| 12.5°  | 1070.4 | 1065.1 | 1054.6 | 1033.5 | 1007.2 | 989.3  | 967.2  | 963.0  | 950.4  | 942.0  | 939.9  |
| 15°    | 1035.6 | 1032.5 | 1013.5 | 989.3  | 963.0  | 945.1  | 926.2  | 913.5  | 892.5  | 896.7  | 889.3  |
| 17.5°  | 998.8  | 985.1  | 973.5  | 940.9  | 928.3  | 900.9  | 878.8  | 872.5  | 857.8  | 848.3  | 838.8  |
| 20°    | 957.8  | 949.3  | 934.6  | 913.5  | 883.0  | 851.5  | 834.6  | 824.1  | 815.7  | 800.9  | 796.7  |
| 22.5°  | 918.8  | 908.3  | 895.7  | 868.3  | 842.0  | 815.7  | 792.5  | 783.0  | 772.5  | 762.0  | 755.7  |
| 25°    | 888.3  | 872.5  | 858.8  | 825.1  | 798.8  | 776.7  | 762.0  | 746.2  | 731.5  | 725.2  | 723.0  |
| 27.5°  | 840.9  | 831.5  | 817.8  | 786.2  | 762.0  | 737.8  | 724.1  | 713.6  | 697.8  | 690.4  | 684.1  |
| 30°    | 810.4  | 791.5  | 775.7  | 750.4  | 726.2  | 699.9  | 687.3  | 674.6  | 665.2  | 655.7  | 648.3  |
| 32.5°  | 769.4  | 754.6  | 742.0  | 716.7  | 692.5  | 668.3  | 654.6  | 635.7  | 630.4  | 623.1  | 614.6  |
| 35°    | 729.4  | 719.9  | 706.2  | 678.8  | 652.5  | 635.7  | 621.0  | 603.1  | 596.8  | 591.5  | 584.1  |
| 37.5°  | 691.5  | 677.8  | 668.3  | 642.0  | 618.9  | 598.9  | 587.3  | 572.5  | 568.3  | 562.0  | 556.8  |
| 40°    | 658.8  | 645.2  | 635.7  | 609.4  | 585.2  | 564.1  | 556.8  | 542.0  | 535.7  | 528.3  | 525.2  |
| 42.5°  | 622.0  | 610.4  | 597.8  | 578.9  | 553.6  | 532.6  | 517.8  | 509.4  | 501.0  | 497.8  | 491.5  |
| 45°    | 583.1  | 572.5  | 563.1  | 542.0  | 515.7  | 501.0  | 488.3  | 476.8  | 470.5  | 465.2  | 461.0  |
| 47.5°  | 549.4  | 539.9  | 527.3  | 504.1  | 483.1  | 469.4  | 456.8  | 445.2  | 438.9  | 432.6  | 427.3  |
| 50°    | 510.5  | 505.2  | 491.5  | 469.4  | 449.4  | 433.6  | 422.0  | 411.5  | 407.3  | 399.9  | 391.5  |
| 52.5°  | 475.7  | 466.2  | 454.7  | 436.8  | 418.9  | 399.9  | 384.2  | 377.8  | 370.5  | 366.3  | 358.9  |
| 55°    | 434.7  | 428.4  | 415.7  | 399.9  | 381.0  | 365.2  | 353.6  | 345.2  | 335.7  | 331.5  | 322.1  |
| 57.5°  | 399.9  | 388.4  | 382.0  | 362.1  | 344.2  | 328.4  | 320.0  | 311.5  | 301.0  | 294.7  | 290.5  |
| 60°    | 362.1  | 351.5  | 342.1  | 325.2  | 312.6  | 295.7  | 283.1  | 275.7  | 268.4  | 260.0  | 255.8  |
| 62.5°  | 325.2  | 316.8  | 305.2  | 291.5  | 275.7  | 262.1  | 252.6  | 242.1  | 237.9  | 229.4  | 226.3  |
| 65°    | 285.2  | 278.9  | 269.4  | 253.6  | 241.0  | 229.4  | 220.0  | 211.5  | 207.3  | 204.2  | 202.1  |
| 67.5°  | 249.4  | 241.0  | 234.7  | 221.0  | 207.3  | 197.9  | 192.6  | 187.3  | 182.1  | 178.9  | 175.8  |
| 70°    | 212.6  | 206.3  | 200.0  | 187.3  | 177.9  | 169.4  | 165.2  | 161.0  | 157.9  | 154.7  | 151.6  |
| 72.5°  | 174.7  | 171.6  | 165.2  | 156.8  | 149.5  | 143.1  | 140.0  | 134.7  | 131.6  | 126.3  | 124.2  |
| 75°    | 144.2  | 138.9  | 135.8  | 128.4  | 122.1  | 116.8  | 112.6  | 106.3  | 102.1  | 100.0  | 98.9   |
| 77.5°  | 113.7  | 111.6  | 107.4  | 101.0  | 97.9   | 92.6   | 86.3   | 84.2   | 82.1   | 82.1   | 81.0   |
| 80°    | 85.3   | 82.1   | 78.9   | 73.7   | 70.5   | 66.3   | 66.3   | 66.3   | 65.3   | 66.3   | 65.3   |
| 82.5°  | 57.9   | 55.8   | 53.7   | 50.5   | 49.5   | 49.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   |
| 85°    | 33.7   | 33.7   | 33.7   | 34.7   | 33.7   | 33.7   | 34.7   | 35.8   | 34.7   | 34.7   | 33.7   |
| 87.5°  | 15.8   | 15.8   | 16.8   | 16.8   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 18.9   |
| 90°    | 4.5    | 5.0    | 5.7    | 7.0    | 8.3    | 9.6    | 10.9   | 11.3   | 11.7   | 12.1   | 12.5   |
| 92.5°  | 8.0    | 7.7    | 8.2    | 9.1    | 10.0   | 10.9   | 11.8   | 12.5   | 13.2   | 13.9   | 14.6   |
| 95°    | 11.2   | 9.1    | 9.7    | 10.8   | 11.9   | 13.0   | 14.1   | 14.8   | 15.5   | 16.2   | 16.9   |
| 97.5°  | 39.1   | 37.7   | 35.1   | 30.0   | 24.8   | 19.7   | 14.5   | 15.3   | 16.1   | 17.0   | 17.8   |
| 100°   | 84.8   | 85.8   | 77.9   | 62.2   | 46.5   | 30.7   | 15.0   | 15.8   | 16.6   | 17.4   | 18.2   |
| 102.5° | 111.9  | 112.6  | 103.8  | 86.3   | 68.7   | 51.2   | 33.6   | 30.3   | 26.9   | 23.6   | 20.3   |
| 105°   | 139.8  | 140.3  | 135.8  | 126.7  | 117.6  | 108.6  | 99.5   | 81.6   | 63.8   | 45.9   | 28.0   |
| 107.5° | 169.4  | 169.9  | 170.7  | 172.2  | 173.7  | 175.2  | 176.7  | 161.1  | 145.6  | 130.0  | 114.5  |
| 110°   | 199.4  | 199.8  | 200.4  | 201.5  | 202.6  | 203.7  | 204.8  | 201.5  | 198.2  | 194.9  | 191.6  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 228.1 | 228.5  | 229.1 | 230.2 | 231.3 | 232.4 | 233.5 | 234.4 | 235.3 | 236.2 | 237.1 |
| 115°   | 256.3 | 256.6  | 257.1 | 258.0 | 258.9 | 259.8 | 260.7 | 261.7 | 262.7 | 263.8 | 264.8 |
| 117.5° | 284.9 | 285.2  | 285.5 | 286.0 | 286.5 | 287.0 | 287.5 | 288.3 | 289.1 | 289.9 | 290.7 |
| 120°   | 311.6 | 312.0  | 312.2 | 312.5 | 312.8 | 313.1 | 313.4 | 314.2 | 315.0 | 315.8 | 316.6 |
| 122.5° | 337.1 | 337.5  | 337.7 | 338.1 | 338.5 | 338.9 | 339.3 | 339.8 | 340.3 | 340.8 | 341.3 |
| 125°   | 361.1 | 361.5  | 361.7 | 362.1 | 362.6 | 363.0 | 363.4 | 363.6 | 363.8 | 364.0 | 364.2 |
| 127.5° | 384.8 | 385.2  | 385.4 | 385.9 | 386.4 | 386.9 | 387.4 | 387.7 | 388.0 | 388.3 | 388.6 |
| 130°   | 406.6 | 407.0  | 407.2 | 407.6 | 408.0 | 408.4 | 408.8 | 409.2 | 409.6 | 410.0 | 410.4 |
| 132.5° | 427.5 | 427.9  | 428.0 | 428.3 | 428.6 | 428.9 | 429.2 | 429.6 | 430.0 | 430.4 | 430.8 |
| 135°   | 448.0 | 448.3  | 448.5 | 448.9 | 449.3 | 449.7 | 450.1 | 450.4 | 450.7 | 451.0 | 451.3 |
| 137.5° | 467.0 | 467.4  | 467.5 | 467.7 | 467.9 | 468.1 | 468.3 | 468.8 | 469.3 | 469.8 | 470.3 |
| 140°   | 484.3 | 484.6  | 484.8 | 485.1 | 485.4 | 485.7 | 486.0 | 486.4 | 486.8 | 487.2 | 487.6 |
| 142.5° | 501.1 | 501.4  | 501.6 | 501.9 | 502.2 | 502.5 | 502.8 | 503.1 | 503.4 | 503.7 | 504.0 |
| 145°   | 517.0 | 517.3  | 517.4 | 517.6 | 517.8 | 518.0 | 518.2 | 518.4 | 518.6 | 518.9 | 519.1 |
| 147.5° | 531.1 | 531.4  | 531.5 | 531.7 | 531.9 | 532.1 | 532.3 | 532.5 | 532.7 | 532.9 | 533.1 |
| 150°   | 544.0 | 544.1  | 544.2 | 544.4 | 544.6 | 544.8 | 545.0 | 545.2 | 545.4 | 545.7 | 545.9 |
| 152.5° | 555.4 | 555.5  | 555.5 | 555.6 | 555.7 | 555.8 | 555.9 | 556.3 | 556.7 | 557.2 | 557.6 |
| 155°   | 565.6 | 565.5  | 565.5 | 565.6 | 565.7 | 565.8 | 565.9 | 566.4 | 566.9 | 567.4 | 567.9 |
| 157.5° | 575.5 | 575.5  | 575.4 | 575.3 | 575.2 | 575.1 | 575.0 | 575.6 | 576.2 | 576.8 | 577.4 |
| 160°   | 583.3 | 583.2  | 583.1 | 583.0 | 582.9 | 582.8 | 582.7 | 583.3 | 583.9 | 584.6 | 585.2 |
| 162.5° | 590.2 | 590.0  | 590.0 | 589.9 | 589.8 | 589.7 | 589.6 | 590.3 | 591.0 | 591.7 | 592.4 |
| 165°   | 596.1 | 595.9  | 595.9 | 595.8 | 595.7 | 595.6 | 595.5 | 596.3 | 597.1 | 597.9 | 598.7 |
| 167.5° | 600.7 | 600.5  | 600.5 | 600.5 | 600.5 | 600.5 | 600.5 | 601.3 | 602.1 | 602.9 | 603.7 |
| 170°   | 604.7 | 604.5  | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 605.3 | 606.1 | 607.0 | 607.8 |
| 172.5° | 607.1 | 606.8  | 606.9 | 607.0 | 607.1 | 607.2 | 607.3 | 608.1 | 608.9 | 609.7 | 610.5 |
| 175°   | 609.4 | 609.1  | 609.1 | 609.2 | 609.3 | 609.4 | 609.5 | 610.2 | 610.9 | 611.6 | 612.3 |
| 177.5° | 610.3 | 610.0  | 610.1 | 610.2 | 610.3 | 610.4 | 610.5 | 611.3 | 612.1 | 612.9 | 613.7 |
| 180°   | 611.4 | 611.4  | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1161.9 | 1163.0 | 1159.8 | 1153.5 | 1152.5 | 1154.6 | 1160.9 | 1158.8 | 1153.5 | 1163.0 | 1154.6 |
| 5°     | 1097.7 | 1092.5 | 1090.4 | 1092.5 | 1086.2 | 1083.0 | 1089.3 | 1086.2 | 1089.3 | 1090.4 | 1093.5 |
| 7.5°   | 1035.6 | 1036.7 | 1030.4 | 1031.4 | 1023.0 | 1025.1 | 1025.1 | 1025.1 | 1028.3 | 1030.4 | 1034.6 |
| 10°    | 982.0  | 984.1  | 976.7  | 977.7  | 971.4  | 967.2  | 970.4  | 976.7  | 976.7  | 976.7  | 978.8  |
| 12.5°  | 938.8  | 929.3  | 924.1  | 923.0  | 915.7  | 913.5  | 919.9  | 922.0  | 927.2  | 927.2  | 930.4  |
| 15°    | 885.1  | 883.0  | 878.8  | 878.8  | 860.9  | 865.1  | 867.2  | 874.6  | 885.1  | 876.7  | 878.8  |
| 17.5°  | 836.7  | 831.5  | 826.2  | 824.1  | 822.0  | 815.7  | 824.1  | 823.0  | 829.3  | 830.4  | 833.6  |
| 20°    | 793.6  | 789.4  | 778.8  | 779.9  | 782.0  | 772.5  | 777.8  | 777.8  | 784.1  | 790.4  | 797.8  |
| 22.5°  | 751.5  | 747.3  | 742.0  | 744.1  | 737.8  | 735.7  | 735.7  | 740.9  | 748.3  | 753.6  | 752.5  |
| 25°    | 718.8  | 711.5  | 708.3  | 705.2  | 702.0  | 704.1  | 700.9  | 706.2  | 711.5  | 714.6  | 711.5  |
| 27.5°  | 682.0  | 678.8  | 672.5  | 669.4  | 664.1  | 666.2  | 668.3  | 672.5  | 675.7  | 675.7  | 678.8  |
| 30°    | 646.2  | 642.0  | 639.9  | 636.7  | 636.7  | 632.5  | 633.6  | 637.8  | 641.0  | 644.1  | 648.3  |
| 32.5°  | 611.5  | 608.3  | 605.2  | 605.2  | 603.1  | 602.0  | 601.0  | 607.3  | 607.3  | 613.6  | 613.6  |
| 35°    | 583.1  | 577.8  | 577.8  | 572.5  | 574.7  | 573.6  | 571.5  | 575.7  | 576.8  | 581.0  | 579.9  |
| 37.5°  | 551.5  | 551.5  | 549.4  | 544.1  | 539.9  | 541.0  | 546.2  | 546.2  | 549.4  | 548.3  | 551.5  |
| 40°    | 519.9  | 517.8  | 517.8  | 514.7  | 513.6  | 512.6  | 513.6  | 514.7  | 519.9  | 518.9  | 519.9  |
| 42.5°  | 488.3  | 489.4  | 484.1  | 484.1  | 484.1  | 481.0  | 482.0  | 483.1  | 485.2  | 487.3  | 490.5  |
| 45°    | 457.8  | 455.7  | 454.7  | 452.6  | 450.5  | 451.5  | 450.5  | 454.7  | 453.6  | 455.7  | 458.9  |
| 47.5°  | 425.2  | 422.0  | 421.0  | 416.8  | 416.8  | 418.9  | 417.8  | 421.0  | 422.0  | 425.2  | 423.1  |
| 50°    | 393.6  | 389.4  | 386.3  | 387.3  | 381.0  | 383.1  | 383.1  | 386.3  | 389.4  | 390.5  | 392.6  |
| 52.5°  | 356.8  | 355.7  | 354.7  | 349.4  | 348.4  | 347.3  | 348.4  | 349.4  | 353.6  | 356.8  | 357.8  |
| 55°    | 321.0  | 320.0  | 313.6  | 311.5  | 308.4  | 308.4  | 310.5  | 311.5  | 318.9  | 320.0  | 324.2  |
| 57.5°  | 288.4  | 285.2  | 277.9  | 276.8  | 276.8  | 276.8  | 273.6  | 277.9  | 280.0  | 285.2  | 285.2  |
| 60°    | 252.6  | 252.6  | 246.3  | 246.3  | 247.3  | 246.3  | 246.3  | 247.3  | 247.3  | 251.5  | 253.6  |
| 62.5°  | 224.2  | 223.1  | 223.1  | 221.0  | 220.0  | 221.0  | 220.0  | 220.0  | 221.0  | 224.2  | 227.3  |
| 65°    | 198.9  | 197.9  | 196.8  | 195.8  | 193.7  | 193.7  | 194.7  | 196.8  | 196.8  | 198.9  | 200.0  |
| 67.5°  | 174.7  | 174.7  | 172.6  | 172.6  | 171.6  | 170.5  | 171.6  | 170.5  | 174.7  | 174.7  | 175.8  |
| 70°    | 150.5  | 149.5  | 146.3  | 145.2  | 142.1  | 143.1  | 143.1  | 146.3  | 147.3  | 149.5  | 151.6  |
| 72.5°  | 121.0  | 121.0  | 118.9  | 116.8  | 117.9  | 115.8  | 115.8  | 116.8  | 116.8  | 120.0  | 121.0  |
| 75°    | 100.0  | 97.9   | 96.8   | 97.9   | 96.8   | 98.9   | 96.8   | 96.8   | 98.9   | 98.9   | 98.9   |
| 77.5°  | 82.1   | 82.1   | 81.0   | 81.0   | 82.1   | 81.0   | 82.1   | 82.1   | 82.1   | 81.0   | 82.1   |
| 80°    | 67.4   | 66.3   | 66.3   | 66.3   | 65.3   | 65.3   | 65.3   | 65.3   | 65.3   | 65.3   | 65.3   |
| 82.5°  | 50.5   | 50.5   | 49.5   | 50.5   | 50.5   | 49.5   | 50.5   | 49.5   | 49.5   | 50.5   | 50.5   |
| 85°    | 33.7   | 35.8   | 33.7   | 33.7   | 34.7   | 34.7   | 35.8   | 34.7   | 35.8   | 33.7   | 34.7   |
| 87.5°  | 17.9   | 18.9   | 18.9   | 17.9   | 17.9   | 18.9   | 18.9   | 18.9   | 20.0   | 17.9   | 18.9   |
| 90°    | 12.7   | 12.8   | 13.0   | 13.2   | 13.4   | 13.6   | 13.4   | 13.2   | 13.0   | 12.8   | 12.7   |
| 92.5°  | 15.0   | 15.0   | 15.1   | 15.2   | 15.3   | 15.4   | 15.3   | 15.2   | 15.1   | 15.0   | 15.0   |
| 95°    | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   |
| 97.5°  | 18.2   | 18.2   | 18.3   | 18.4   | 18.5   | 18.6   | 18.5   | 18.4   | 18.3   | 18.2   | 18.2   |
| 100°   | 18.6   | 18.7   | 18.8   | 18.9   | 19.0   | 19.1   | 19.0   | 18.9   | 18.8   | 18.7   | 18.6   |
| 102.5° | 18.6   | 18.7   | 18.9   | 19.1   | 19.3   | 19.5   | 19.3   | 19.1   | 18.9   | 18.7   | 18.6   |
| 105°   | 19.1   | 19.2   | 19.4   | 19.6   | 19.8   | 20.0   | 19.8   | 19.6   | 19.4   | 19.2   | 19.1   |
| 107.5° | 106.7  | 100.1  | 86.9   | 73.6   | 60.4   | 47.2   | 60.4   | 73.6   | 86.9   | 100.1  | 106.7  |
| 110°   | 189.9  | 182.7  | 168.2  | 153.8  | 139.3  | 124.9  | 139.3  | 153.8  | 168.2  | 182.7  | 189.9  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 237.5  | 237.4 | 237.2 | 237.0 | 236.8 | 236.6 | 236.8 | 237.0 | 237.2 | 237.4 | 237.5  |
| 115°   | 265.3  | 265.5 | 265.9 | 266.3 | 266.7 | 267.1 | 266.7 | 266.3 | 265.9 | 265.5 | 265.3  |
| 117.5° | 291.1  | 291.2 | 291.3 | 291.4 | 291.5 | 291.6 | 291.5 | 291.4 | 291.3 | 291.2 | 291.1  |
| 120°   | 317.0  | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0 | 317.0  |
| 122.5° | 341.6  | 341.6 | 341.7 | 341.8 | 341.9 | 342.0 | 341.9 | 341.8 | 341.7 | 341.6 | 341.6  |
| 125°   | 364.3  | 364.4 | 364.6 | 364.8 | 365.0 | 365.2 | 365.0 | 364.8 | 364.6 | 364.4 | 364.3  |
| 127.5° | 388.8  | 388.7 | 388.5 | 388.3 | 388.1 | 387.9 | 388.1 | 388.3 | 388.5 | 388.7 | 388.8  |
| 130°   | 410.6  | 410.5 | 410.3 | 410.1 | 409.9 | 409.7 | 409.9 | 410.1 | 410.3 | 410.5 | 410.6  |
| 132.5° | 431.0  | 430.9 | 430.6 | 430.3 | 430.0 | 429.7 | 430.0 | 430.3 | 430.6 | 430.9 | 431.0  |
| 135°   | 451.5  | 451.3 | 451.0 | 450.7 | 450.4 | 450.1 | 450.4 | 450.7 | 451.0 | 451.3 | 451.5  |
| 137.5° | 470.6  | 470.5 | 470.3 | 470.0 | 469.8 | 469.6 | 469.8 | 470.0 | 470.3 | 470.5 | 470.6  |
| 140°   | 487.8  | 487.7 | 487.5 | 487.3 | 487.1 | 486.9 | 487.1 | 487.3 | 487.5 | 487.7 | 487.8  |
| 142.5° | 504.2  | 504.0 | 503.7 | 503.4 | 503.1 | 502.8 | 503.1 | 503.4 | 503.7 | 504.0 | 504.2  |
| 145°   | 519.2  | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2  |
| 147.5° | 533.2  | 533.0 | 532.5 | 532.0 | 531.5 | 531.0 | 531.5 | 532.0 | 532.5 | 533.0 | 533.2  |
| 150°   | 546.0  | 545.8 | 545.5 | 545.2 | 544.9 | 544.6 | 544.9 | 545.2 | 545.5 | 545.8 | 546.0  |
| 152.5° | 557.8  | 557.5 | 557.0 | 556.5 | 556.0 | 555.5 | 556.0 | 556.5 | 557.0 | 557.5 | 557.8  |
| 155°   | 568.2  | 567.9 | 567.3 | 566.7 | 566.1 | 565.5 | 566.1 | 566.7 | 567.3 | 567.9 | 568.2  |
| 157.5° | 577.7  | 577.3 | 576.5 | 575.7 | 574.9 | 574.1 | 574.9 | 575.7 | 576.5 | 577.3 | 577.7  |
| 160°   | 585.5  | 585.1 | 584.4 | 583.7 | 583.0 | 582.3 | 583.0 | 583.7 | 584.4 | 585.1 | 585.5  |
| 162.5° | 592.7  | 592.4 | 591.8 | 591.2 | 590.6 | 590.0 | 590.6 | 591.2 | 591.8 | 592.4 | 592.7  |
| 165°   | 599.1  | 598.7 | 598.0 | 597.3 | 596.6 | 595.9 | 596.6 | 597.3 | 598.0 | 598.7 | 599.1  |
| 167.5° | 604.1  | 603.7 | 602.9 | 602.1 | 601.3 | 600.5 | 601.3 | 602.1 | 602.9 | 603.7 | 604.1  |
| 170°   | 608.2  | 607.8 | 607.0 | 606.1 | 605.3 | 604.5 | 605.3 | 606.1 | 607.0 | 607.8 | 608.2  |
| 172.5° | 610.9  | 610.4 | 609.5 | 608.6 | 607.7 | 606.8 | 607.7 | 608.6 | 609.5 | 610.4 | 610.9  |
| 175°   | 612.7  | 612.3 | 611.5 | 610.7 | 609.9 | 609.1 | 609.9 | 610.7 | 611.5 | 612.3 | 612.7  |
| 177.5° | 614.1  | 613.6 | 612.6 | 611.5 | 610.5 | 609.5 | 610.5 | 611.5 | 612.6 | 613.6 | 614.1  |
| 180°   | 611.4  | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1163.0 | 1167.2 | 1163.0 | 1154.6 | 1163.0 | 1168.2 | 1173.5 | 1181.9 | 1186.1 | 1186.1 | 1192.5 |
| 5°     | 1096.7 | 1105.1 | 1101.9 | 1099.8 | 1108.3 | 1113.5 | 1121.9 | 1132.5 | 1144.0 | 1151.4 | 1159.8 |
| 7.5°   | 1037.7 | 1043.0 | 1048.3 | 1048.3 | 1056.7 | 1068.3 | 1080.9 | 1093.5 | 1108.3 | 1118.8 | 1125.1 |
| 10°    | 986.2  | 990.4  | 993.5  | 997.7  | 1010.4 | 1023.0 | 1039.8 | 1055.6 | 1068.3 | 1079.8 | 1090.4 |
| 12.5°  | 936.7  | 943.0  | 950.4  | 953.5  | 963.0  | 978.8  | 994.6  | 1013.5 | 1033.5 | 1045.1 | 1055.6 |
| 15°    | 889.3  | 892.5  | 900.9  | 910.4  | 918.8  | 935.6  | 955.6  | 975.6  | 992.5  | 1010.4 | 1019.8 |
| 17.5°  | 840.9  | 842.0  | 864.1  | 858.8  | 886.2  | 902.0  | 912.5  | 931.4  | 958.8  | 973.5  | 988.3  |
| 20°    | 793.6  | 804.1  | 813.6  | 818.8  | 833.6  | 851.5  | 882.0  | 896.7  | 918.8  | 932.5  | 945.1  |
| 22.5°  | 756.7  | 772.5  | 772.5  | 785.1  | 792.5  | 809.4  | 831.5  | 859.9  | 884.1  | 893.6  | 911.4  |
| 25°    | 724.1  | 731.5  | 744.1  | 748.3  | 762.0  | 776.7  | 791.5  | 822.0  | 848.3  | 860.9  | 873.6  |
| 27.5°  | 682.0  | 691.5  | 708.3  | 708.3  | 726.2  | 742.0  | 759.9  | 779.9  | 806.2  | 824.1  | 837.8  |
| 30°    | 649.4  | 658.8  | 666.2  | 677.8  | 685.2  | 699.9  | 731.5  | 746.2  | 769.4  | 785.1  | 802.0  |
| 32.5°  | 618.9  | 626.2  | 632.5  | 645.2  | 653.6  | 670.4  | 687.3  | 713.6  | 733.6  | 748.3  | 766.2  |
| 35°    | 585.2  | 592.5  | 601.0  | 610.4  | 623.1  | 638.9  | 654.6  | 676.7  | 696.7  | 710.4  | 725.2  |
| 37.5°  | 553.6  | 558.9  | 571.5  | 577.8  | 588.3  | 603.1  | 623.1  | 646.2  | 664.1  | 674.6  | 689.4  |
| 40°    | 523.1  | 527.3  | 536.8  | 548.3  | 555.7  | 567.3  | 588.3  | 608.3  | 630.4  | 643.1  | 654.6  |
| 42.5°  | 490.5  | 495.7  | 504.1  | 515.7  | 527.3  | 539.9  | 551.5  | 574.7  | 594.6  | 605.2  | 617.8  |
| 45°    | 462.0  | 465.2  | 471.5  | 483.1  | 494.7  | 504.1  | 522.0  | 543.1  | 562.0  | 570.4  | 584.1  |
| 47.5°  | 428.4  | 431.5  | 441.0  | 446.2  | 458.9  | 471.5  | 489.4  | 510.5  | 527.3  | 535.7  | 548.3  |
| 50°    | 393.6  | 396.8  | 403.1  | 414.7  | 423.1  | 436.8  | 452.6  | 470.5  | 491.5  | 503.1  | 510.5  |
| 52.5°  | 359.9  | 366.3  | 371.5  | 381.0  | 391.5  | 405.2  | 419.9  | 436.8  | 454.7  | 466.2  | 474.7  |
| 55°    | 326.3  | 331.5  | 337.8  | 343.1  | 355.7  | 368.4  | 385.2  | 401.0  | 416.8  | 427.3  | 436.8  |
| 57.5°  | 288.4  | 295.7  | 302.1  | 312.6  | 322.1  | 332.6  | 351.5  | 364.2  | 383.1  | 390.5  | 398.9  |
| 60°    | 255.8  | 263.1  | 268.4  | 276.8  | 285.2  | 298.9  | 311.5  | 327.3  | 343.1  | 352.6  | 363.1  |
| 62.5°  | 228.4  | 231.5  | 234.7  | 243.1  | 251.5  | 264.2  | 276.8  | 292.6  | 309.4  | 314.7  | 323.1  |
| 65°    | 201.0  | 204.2  | 209.4  | 216.8  | 223.1  | 230.5  | 244.2  | 256.8  | 272.6  | 281.0  | 284.2  |
| 67.5°  | 177.9  | 181.0  | 182.1  | 187.3  | 192.6  | 201.0  | 208.4  | 221.0  | 235.8  | 241.0  | 247.3  |
| 70°    | 151.6  | 156.8  | 157.9  | 162.1  | 164.2  | 169.4  | 177.9  | 187.3  | 198.9  | 208.4  | 213.7  |
| 72.5°  | 121.0  | 128.4  | 130.5  | 136.8  | 140.0  | 145.2  | 151.6  | 158.9  | 166.3  | 170.5  | 174.7  |
| 75°    | 98.9   | 101.0  | 102.1  | 107.4  | 112.6  | 120.0  | 123.1  | 127.3  | 133.7  | 138.9  | 143.1  |
| 77.5°  | 82.1   | 83.1   | 84.2   | 84.2   | 85.3   | 89.5   | 95.8   | 101.0  | 105.2  | 107.4  | 110.5  |
| 80°    | 66.3   | 65.3   | 65.3   | 66.3   | 66.3   | 66.3   | 68.4   | 75.8   | 77.9   | 83.1   | 82.1   |
| 82.5°  | 51.6   | 49.5   | 50.5   | 49.5   | 49.5   | 49.5   | 49.5   | 50.5   | 50.5   | 53.7   | 55.8   |
| 85°    | 33.7   | 34.7   | 33.7   | 33.7   | 32.6   | 33.7   | 32.6   | 32.6   | 31.6   | 31.6   | 30.5   |
| 87.5°  | 17.9   | 18.9   | 17.9   | 17.9   | 16.8   | 17.9   | 16.8   | 16.8   | 15.8   | 15.8   | 13.7   |
| 90°    | 12.5   | 12.1   | 11.7   | 11.3   | 10.9   | 9.6    | 8.3    | 7.0    | 5.7    | 5.0    | 4.5    |
| 92.5°  | 14.6   | 13.9   | 13.2   | 12.5   | 11.8   | 10.9   | 10.0   | 9.1    | 8.2    | 7.7    | 8.0    |
| 95°    | 16.9   | 16.2   | 15.5   | 14.8   | 14.1   | 13.0   | 11.9   | 10.8   | 9.7    | 9.1    | 11.2   |
| 97.5°  | 17.8   | 17.0   | 16.1   | 15.3   | 14.5   | 19.7   | 24.8   | 30.0   | 35.1   | 37.7   | 39.1   |
| 100°   | 18.2   | 17.4   | 16.6   | 15.8   | 15.0   | 30.7   | 46.5   | 62.2   | 77.9   | 85.8   | 84.8   |
| 102.5° | 20.3   | 23.6   | 26.9   | 30.3   | 33.6   | 51.2   | 68.7   | 86.3   | 103.8  | 112.6  | 111.9  |
| 105°   | 28.0   | 45.9   | 63.8   | 81.6   | 99.5   | 108.6  | 117.6  | 126.7  | 135.8  | 140.3  | 139.8  |
| 107.5° | 114.5  | 130.0  | 145.6  | 161.1  | 176.7  | 175.2  | 173.7  | 172.2  | 170.7  | 169.9  | 169.4  |
| 110°   | 191.6  | 194.9  | 198.2  | 201.5  | 204.8  | 203.7  | 202.6  | 201.5  | 200.4  | 199.8  | 199.4  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 237.1 | 236.2 | 235.3 | 234.4 | 233.5 | 232.4 | 231.3 | 230.2 | 229.1 | 228.5  | 228.1 |
| 115°   | 264.8 | 263.8 | 262.7 | 261.7 | 260.7 | 259.8 | 258.9 | 258.0 | 257.1 | 256.6  | 256.3 |
| 117.5° | 290.7 | 289.9 | 289.1 | 288.3 | 287.5 | 287.0 | 286.5 | 286.0 | 285.5 | 285.2  | 284.9 |
| 120°   | 316.6 | 315.8 | 315.0 | 314.2 | 313.4 | 313.1 | 312.8 | 312.5 | 312.2 | 312.0  | 311.6 |
| 122.5° | 341.3 | 340.8 | 340.3 | 339.8 | 339.3 | 338.9 | 338.5 | 338.1 | 337.7 | 337.5  | 337.1 |
| 125°   | 364.2 | 364.0 | 363.8 | 363.6 | 363.4 | 363.0 | 362.6 | 362.1 | 361.7 | 361.5  | 361.1 |
| 127.5° | 388.6 | 388.3 | 388.0 | 387.7 | 387.4 | 386.9 | 386.4 | 385.9 | 385.4 | 385.2  | 384.8 |
| 130°   | 410.4 | 410.0 | 409.6 | 409.2 | 408.8 | 408.4 | 408.0 | 407.6 | 407.2 | 407.0  | 406.6 |
| 132.5° | 430.8 | 430.4 | 430.0 | 429.6 | 429.2 | 428.9 | 428.6 | 428.3 | 428.0 | 427.9  | 427.5 |
| 135°   | 451.3 | 451.0 | 450.7 | 450.4 | 450.1 | 449.7 | 449.3 | 448.9 | 448.5 | 448.3  | 448.0 |
| 137.5° | 470.3 | 469.8 | 469.3 | 468.8 | 468.3 | 468.1 | 467.9 | 467.7 | 467.5 | 467.4  | 467.0 |
| 140°   | 487.6 | 487.2 | 486.8 | 486.4 | 486.0 | 485.7 | 485.4 | 485.1 | 484.8 | 484.6  | 484.3 |
| 142.5° | 504.0 | 503.7 | 503.4 | 503.1 | 502.8 | 502.5 | 502.2 | 501.9 | 501.6 | 501.4  | 501.1 |
| 145°   | 519.1 | 518.9 | 518.6 | 518.4 | 518.2 | 518.0 | 517.8 | 517.6 | 517.4 | 517.3  | 517.0 |
| 147.5° | 533.1 | 532.9 | 532.7 | 532.5 | 532.3 | 532.1 | 531.9 | 531.7 | 531.5 | 531.4  | 531.1 |
| 150°   | 545.9 | 545.7 | 545.4 | 545.2 | 545.0 | 544.8 | 544.6 | 544.4 | 544.2 | 544.1  | 544.0 |
| 152.5° | 557.6 | 557.2 | 556.7 | 556.3 | 555.9 | 555.8 | 555.7 | 555.6 | 555.5 | 555.5  | 555.4 |
| 155°   | 567.9 | 567.4 | 566.9 | 566.4 | 565.9 | 565.8 | 565.7 | 565.6 | 565.5 | 565.5  | 565.6 |
| 157.5° | 577.4 | 576.8 | 576.2 | 575.6 | 575.0 | 575.1 | 575.2 | 575.3 | 575.4 | 575.5  | 575.5 |
| 160°   | 585.2 | 584.6 | 583.9 | 583.3 | 582.7 | 582.8 | 582.9 | 583.0 | 583.1 | 583.2  | 583.3 |
| 162.5° | 592.4 | 591.7 | 591.0 | 590.3 | 589.6 | 589.7 | 589.8 | 589.9 | 590.0 | 590.0  | 590.2 |
| 165°   | 598.7 | 597.9 | 597.1 | 596.3 | 595.5 | 595.6 | 595.7 | 595.8 | 595.9 | 595.9  | 596.1 |
| 167.5° | 603.7 | 602.9 | 602.1 | 601.3 | 600.5 | 600.5 | 600.5 | 600.5 | 600.5 | 600.5  | 600.7 |
| 170°   | 607.8 | 607.0 | 606.1 | 605.3 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5  | 604.7 |
| 172.5° | 610.5 | 609.7 | 608.9 | 608.1 | 607.3 | 607.2 | 607.1 | 607.0 | 606.9 | 606.8  | 607.1 |
| 175°   | 612.3 | 611.6 | 610.9 | 610.2 | 609.5 | 609.4 | 609.3 | 609.2 | 609.1 | 609.1  | 609.4 |
| 177.5° | 613.7 | 612.9 | 612.1 | 611.3 | 610.5 | 610.4 | 610.3 | 610.2 | 610.1 | 610.0  | 610.3 |
| 180°   | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4  | 611.4 |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1229.3 | 1229.3 | 1229.3 | 1229.3 |
| 2.5°   | 1197.7 | 1205.1 | 1219.8 | 1232.4 |
| 5°     | 1172.5 | 1184.0 | 1206.1 | 1228.2 |
| 7.5°   | 1141.9 | 1159.8 | 1188.2 | 1218.8 |
| 10°    | 1112.5 | 1135.6 | 1170.4 | 1206.1 |
| 12.5°  | 1083.0 | 1107.2 | 1144.0 | 1190.3 |
| 15°    | 1048.3 | 1073.5 | 1117.7 | 1173.5 |
| 17.5°  | 1017.7 | 1051.4 | 1091.4 | 1147.2 |
| 20°    | 985.1  | 1010.4 | 1061.9 | 1120.9 |
| 22.5°  | 944.1  | 986.2  | 1034.6 | 1096.7 |
| 25°    | 911.4  | 948.3  | 996.7  | 1067.2 |
| 27.5°  | 871.4  | 914.6  | 973.5  | 1035.6 |
| 30°    | 838.8  | 874.6  | 929.3  | 1004.1 |
| 32.5°  | 800.9  | 843.0  | 899.9  | 973.5  |
| 35°    | 767.3  | 803.0  | 856.7  | 931.4  |
| 37.5°  | 727.3  | 766.2  | 826.2  | 892.5  |
| 40°    | 692.5  | 730.4  | 787.3  | 849.3  |
| 42.5°  | 650.4  | 690.4  | 747.3  | 799.9  |
| 45°    | 616.7  | 653.6  | 698.8  | 747.3  |
| 47.5°  | 575.7  | 614.6  | 658.8  | 692.5  |
| 50°    | 538.9  | 574.7  | 609.4  | 637.8  |
| 52.5°  | 498.9  | 531.5  | 563.1  | 584.1  |
| 55°    | 462.0  | 487.3  | 512.6  | 527.3  |
| 57.5°  | 418.9  | 443.1  | 464.1  | 472.6  |
| 60°    | 381.0  | 401.0  | 414.7  | 424.1  |
| 62.5°  | 341.0  | 355.7  | 366.3  | 371.5  |
| 65°    | 302.1  | 312.6  | 317.8  | 323.1  |
| 67.5°  | 262.1  | 271.5  | 274.7  | 281.0  |
| 70°    | 220.0  | 230.5  | 232.6  | 235.8  |
| 72.5°  | 188.4  | 188.4  | 192.6  | 196.8  |
| 75°    | 150.5  | 152.6  | 154.7  | 154.7  |
| 77.5°  | 117.9  | 117.9  | 120.0  | 121.0  |
| 80°    | 86.3   | 87.4   | 87.4   | 86.3   |
| 82.5°  | 58.9   | 61.0   | 58.9   | 57.9   |
| 85°    | 32.6   | 36.8   | 34.7   | 34.7   |
| 87.5°  | 13.7   | 13.7   | 15.8   | 13.7   |
| 90°    | 3.5    | 2.5    | 1.5    | 0.5    |
| 92.5°  | 8.6    | 9.2    | 9.8    | 10.4   |
| 95°    | 15.3   | 19.4   | 23.6   | 27.7   |
| 97.5°  | 41.9   | 44.8   | 47.6   | 50.4   |
| 100°   | 82.8   | 80.8   | 78.8   | 76.8   |
| 102.5° | 110.6  | 109.3  | 108.0  | 106.7  |
| 105°   | 138.7  | 137.6  | 136.5  | 135.4  |
| 107.5° | 168.5  | 167.6  | 166.7  | 165.8  |
| 110°   | 198.6  | 197.8  | 197.0  | 196.2  |

TEST NUMBER: P1031246

CATALOG NUMBER: S123RDIW-B775D460UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 227.4 | 226.7 | 226.0 | 225.3 |
| 115°   | 255.7 | 255.1 | 254.5 | 253.9 |
| 117.5° | 284.2 | 283.5 | 282.8 | 282.1 |
| 120°   | 310.7 | 309.8 | 308.9 | 308.0 |
| 122.5° | 336.4 | 335.7 | 335.0 | 334.3 |
| 125°   | 360.3 | 359.5 | 358.7 | 357.9 |
| 127.5° | 384.0 | 383.1 | 382.3 | 381.5 |
| 130°   | 405.8 | 404.9 | 404.1 | 403.3 |
| 132.5° | 426.7 | 425.8 | 425.0 | 424.2 |
| 135°   | 447.4 | 446.8 | 446.2 | 445.6 |
| 137.5° | 466.2 | 465.3 | 464.5 | 463.7 |
| 140°   | 483.7 | 483.1 | 482.5 | 481.9 |
| 142.5° | 500.5 | 499.9 | 499.3 | 498.7 |
| 145°   | 516.3 | 515.6 | 514.9 | 514.2 |
| 147.5° | 530.6 | 530.1 | 529.6 | 529.1 |
| 150°   | 543.7 | 543.4 | 543.1 | 542.8 |
| 152.5° | 555.3 | 555.2 | 555.1 | 555.0 |
| 155°   | 565.8 | 566.0 | 566.2 | 566.4 |
| 157.5° | 575.5 | 575.5 | 575.5 | 575.5 |
| 160°   | 583.4 | 583.5 | 583.6 | 583.7 |
| 162.5° | 590.5 | 590.8 | 591.1 | 591.4 |
| 165°   | 596.4 | 596.7 | 597.0 | 597.3 |
| 167.5° | 601.1 | 601.5 | 601.9 | 602.3 |
| 170°   | 605.1 | 605.6 | 606.0 | 606.4 |
| 172.5° | 607.6 | 608.1 | 608.6 | 609.1 |
| 175°   | 609.9 | 610.4 | 610.9 | 611.4 |
| 177.5° | 610.8 | 611.3 | 611.8 | 612.3 |
| 180°   | 611.4 | 611.4 | 611.4 | 611.4 |

(END OF REPORT)