

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: P1037545

Luminaire Tested: S123RDS-B560DB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1037545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDS-B560DB2750-4F0-XX-W2A-A\_5000K  
Description: Define 3 Regressed Direct Surface with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

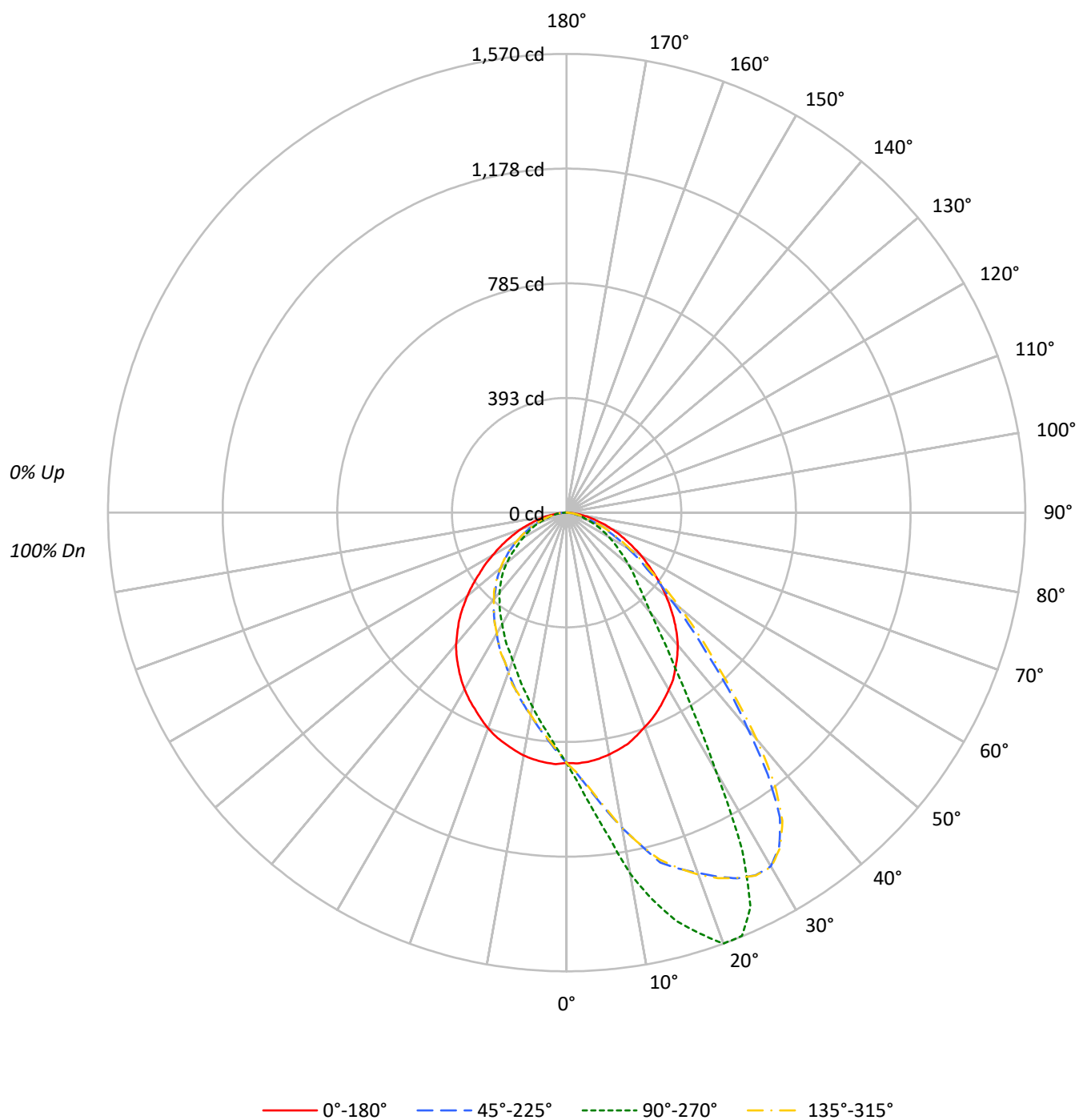
Lumens per Lamp: N/A  
Luminaire Lumens: 2133.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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: P1037545

CATALOG NUMBER: S123RDS-B560DB2750-4F0-XX-W2A-A\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1037545

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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 74  |    |    |
| 3   | 93  | 84  | 76  | 71  | 91  | 82  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 74  | 70  | 66  | 64  |    |    |
| 4   | 86  | 75  | 67  | 61  | 84  | 74  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 58  | 56  |    |    |
| 5   | 80  | 68  | 60  | 53  | 78  | 67  | 59  | 53  | 65  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |
| 6   | 74  | 62  | 53  | 47  | 72  | 61  | 53  | 47  | 59  | 52  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 44  |    |    |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 48  | 42  | 54  | 47  | 42  | 53  | 46  | 42  | 51  | 46  | 41  | 39  |    |    |
| 8   | 64  | 52  | 44  | 38  | 63  | 51  | 43  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 37  | 36  |    |    |
| 9   | 60  | 48  | 40  | 35  | 59  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 10  | 57  | 44  | 37  | 32  | 55  | 44  | 36  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |

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

|     | 0°   | 90°   | 180° | 270° |
|-----|------|-------|------|------|
| 0°  | 9220 | 9220  | 9220 | 9220 |
| 5°  | 9248 | 10991 | 9272 | 8155 |
| 10° | 9187 | 13724 | 9226 | 7367 |
| 15° | 9112 | 16108 | 9112 | 6718 |
| 20° | 8947 | 17978 | 8998 | 6166 |
| 25° | 8833 | 17690 | 8815 | 5827 |
| 30° | 8697 | 12716 | 8678 | 5479 |
| 35° | 8529 | 8490  | 8490 | 5252 |
| 40° | 8317 | 6256  | 8275 | 5019 |
| 45° | 7926 | 5247  | 7916 | 4789 |
| 50° | 7442 | 4630  | 7418 | 4471 |
| 55° | 6895 | 4061  | 6840 | 4033 |
| 60° | 6364 | 3615  | 6299 | 3694 |
| 65° | 5736 | 3176  | 5771 | 3436 |
| 70° | 5171 | 2493  | 5309 | 3138 |
| 75° | 4483 | 2196  | 4666 | 2865 |
| 80° | 3725 | 1909  | 4048 | 2820 |
| 85° | 2989 | 1544  | 3260 | 2989 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 15038 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.1   | 3.9       |
| 10°-20°   | 263.3  | 12.3      |
| 20°-30°   | 414.7  | 19.4      |
| 30°-40°   | 431.3  | 20.2      |
| 40°-50°   | 369.0  | 17.3      |
| 50°-60°   | 281.3  | 13.2      |
| 60°-70°   | 180.2  | 8.4       |
| 70°-80°   | 86.3   | 4.0       |
| 80°-90°   | 22.7   | 1.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 762.2  | 35.7      |
| 0°-40°    | 1193.5 | 56.0      |
| 0°-60°    | 1843.7 | 86.4      |
| 0°-90°    | 2133.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2133.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90°  | 180° | 270° | 360° | Flux |
|-----|-----|------|------|------|------|------|
| 0°  | 857 | 857  | 857  | 857  | 857  |      |
| 5°  | 856 | 1017 | 858  | 755  | 856  | 81   |
| 15° | 818 | 1446 | 818  | 603  | 818  | 230  |
| 25° | 744 | 1490 | 742  | 491  | 744  | 343  |
| 35° | 649 | 646  | 646  | 400  | 649  | 406  |
| 45° | 521 | 345  | 520  | 315  | 521  | 401  |
| 55° | 367 | 216  | 364  | 215  | 367  | 329  |
| 65° | 225 | 125  | 227  | 135  | 225  | 225  |
| 75° | 108 | 53   | 112  | 69   | 108  | 116  |
| 85° | 24  | 12   | 26   | 24   | 24   | 28   |
| 90° | 0   | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 856.6 | 856.6 | 856.6 | 856.6 | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  |
| 2.5°  | 858.8 | 864.7 | 869.1 | 872.0 | 879.3  | 883.7  | 887.4  | 894.0  | 894.0  | 895.5  | 898.4  |
| 5°    | 855.9 | 868.3 | 877.1 | 888.9 | 904.3  | 911.6  | 921.9  | 930.7  | 943.1  | 949.7  | 956.3  |
| 7.5°  | 849.3 | 866.9 | 885.2 | 902.8 | 925.5  | 940.2  | 950.5  | 973.2  | 989.4  | 1009.2 | 1024.6 |
| 10°   | 840.5 | 864.7 | 888.1 | 915.3 | 946.1  | 968.1  | 983.5  | 1013.6 | 1044.4 | 1072.2 | 1095.7 |
| 12.5° | 829.5 | 858.8 | 892.5 | 925.5 | 968.8  | 990.8  | 1015.8 | 1053.2 | 1097.2 | 1132.4 | 1163.9 |
| 15°   | 817.7 | 851.5 | 889.6 | 929.9 | 984.2  | 1015.0 | 1051.0 | 1096.4 | 1145.6 | 1196.2 | 1239.4 |
| 17.5° | 799.4 | 841.9 | 884.5 | 943.1 | 1007.0 | 1025.3 | 1056.1 | 1118.4 | 1179.3 | 1224.8 | 1277.6 |
| 20°   | 781.1 | 828.7 | 882.3 | 935.1 | 1004.0 | 1046.6 | 1075.2 | 1141.2 | 1206.4 | 1261.4 | 1312.0 |
| 22.5° | 764.2 | 814.1 | 869.8 | 936.5 | 1001.1 | 1043.6 | 1079.6 | 1148.5 | 1224.0 | 1285.6 | 1348.0 |
| 25°   | 743.7 | 797.9 | 859.5 | 922.6 | 1001.1 | 1033.4 | 1073.0 | 1152.9 | 1232.8 | 1304.0 | 1381.0 |
| 27.5° | 721.7 | 776.7 | 837.5 | 902.1 | 974.0  | 1021.6 | 1060.5 | 1146.3 | 1243.8 | 1320.1 | 1399.3 |
| 30°   | 699.7 | 756.1 | 814.8 | 872.7 | 953.4  | 998.9  | 1043.6 | 1138.2 | 1249.7 | 1337.0 | 1397.9 |
| 32.5° | 678.4 | 726.1 | 784.0 | 840.5 | 920.4  | 970.3  | 1020.9 | 1130.2 | 1251.9 | 1325.2 | 1354.6 |
| 35°   | 649.1 | 698.9 | 745.9 | 806.0 | 886.7  | 935.8  | 995.2  | 1129.4 | 1242.4 | 1287.8 | 1273.2 |
| 37.5° | 621.9 | 663.7 | 708.5 | 762.0 | 844.9  | 908.7  | 970.3  | 1110.4 | 1210.8 | 1213.8 | 1130.9 |
| 40°   | 591.9 | 626.3 | 663.7 | 720.2 | 809.7  | 872.7  | 939.5  | 1081.0 | 1153.6 | 1110.4 | 964.4  |
| 42.5° | 557.4 | 588.2 | 617.5 | 672.5 | 770.1  | 840.5  | 912.3  | 1044.4 | 1070.8 | 971.0  | 819.2  |
| 45°   | 520.7 | 545.6 | 572.8 | 630.7 | 728.3  | 797.9  | 869.8  | 987.9  | 960.7  | 819.9  | 675.5  |
| 47.5° | 482.6 | 503.8 | 530.2 | 583.1 | 683.5  | 754.7  | 822.9  | 907.2  | 838.3  | 687.2  | 566.2  |
| 50°   | 444.4 | 461.3 | 487.0 | 541.2 | 638.1  | 702.6  | 765.7  | 820.7  | 723.9  | 589.7  | 467.9  |
| 52.5° | 407.0 | 420.2 | 446.6 | 492.8 | 586.7  | 648.3  | 693.8  | 715.1  | 616.8  | 487.0  | 406.3  |
| 55°   | 367.4 | 382.1 | 399.7 | 446.6 | 539.8  | 585.3  | 615.3  | 614.6  | 513.4  | 412.9  | 335.9  |
| 57.5° | 329.3 | 342.5 | 357.9 | 404.8 | 480.4  | 511.2  | 536.8  | 524.4  | 428.3  | 338.1  | 288.2  |
| 60°   | 295.6 | 302.9 | 319.8 | 359.4 | 416.6  | 443.0  | 457.6  | 436.4  | 349.8  | 285.3  | 238.4  |
| 62.5° | 258.9 | 266.2 | 280.2 | 317.6 | 352.8  | 366.7  | 379.2  | 352.0  | 289.0  | 232.5  | 203.9  |
| 65°   | 225.2 | 234.7 | 243.5 | 273.6 | 292.6  | 309.5  | 308.0  | 285.3  | 225.9  | 189.2  | 165.7  |
| 67.5° | 195.8 | 199.5 | 206.8 | 225.2 | 234.0  | 246.4  | 247.2  | 221.5  | 181.9  | 154.0  | 140.1  |
| 70°   | 164.3 | 167.9 | 173.1 | 181.9 | 187.7  | 190.7  | 189.2  | 166.5  | 137.1  | 120.3  | 107.8  |
| 72.5° | 137.1 | 136.4 | 140.1 | 140.1 | 145.9  | 145.2  | 140.8  | 123.2  | 104.1  | 90.2   | 82.9   |
| 75°   | 107.8 | 108.5 | 109.3 | 107.8 | 105.6  | 102.7  | 99.0   | 85.8   | 73.3   | 66.7   | 60.1   |
| 77.5° | 84.3  | 82.9  | 83.6  | 78.5  | 75.5   | 72.6   | 67.5   | 60.9   | 50.6   | 49.1   | 46.2   |
| 80°   | 60.1  | 59.4  | 58.7  | 56.5  | 49.9   | 46.9   | 43.3   | 39.6   | 37.4   | 35.9   | 35.2   |
| 82.5° | 40.3  | 40.3  | 38.9  | 34.5  | 30.8   | 28.6   | 27.9   | 26.4   | 24.2   | 24.2   | 23.5   |
| 85°   | 24.2  | 23.5  | 22.0  | 17.6  | 15.4   | 15.4   | 15.4   | 15.4   | 13.9   | 13.9   | 13.2   |
| 87.5° | 9.5   | 8.8   | 6.6   | 6.6   | 5.9    | 5.9    | 5.9    | 5.1    | 5.1    | 4.4    | 4.4    |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  |
| 2.5°  | 904.3  | 904.3  | 910.9  | 917.5  | 913.8  | 916.0  | 924.1  | 921.1  | 927.0  | 926.3  | 928.5  |
| 5°    | 972.5  | 980.6  | 987.2  | 1001.1 | 1003.3 | 1001.1 | 1015.0 | 1018.7 | 1025.3 | 1017.2 | 1020.9 |
| 7.5°  | 1049.5 | 1066.4 | 1082.5 | 1103.0 | 1109.6 | 1111.1 | 1118.4 | 1128.7 | 1137.5 | 1121.4 | 1129.4 |
| 10°   | 1124.3 | 1150.0 | 1183.0 | 1201.3 | 1217.4 | 1223.3 | 1229.2 | 1235.8 | 1246.0 | 1255.6 | 1248.2 |
| 12.5° | 1205.0 | 1242.4 | 1273.9 | 1306.9 | 1326.7 | 1324.5 | 1341.4 | 1345.8 | 1353.9 | 1356.1 | 1359.0 |
| 15°   | 1271.0 | 1323.8 | 1343.6 | 1392.7 | 1397.1 | 1411.8 | 1430.9 | 1447.7 | 1449.9 | 1445.5 | 1445.5 |
| 17.5° | 1334.0 | 1379.5 | 1414.7 | 1454.3 | 1462.4 | 1474.9 | 1499.1 | 1507.1 | 1510.1 | 1509.3 | 1509.3 |
| 20°   | 1385.4 | 1415.5 | 1474.9 | 1507.9 | 1521.1 | 1537.2 | 1554.1 | 1564.3 | 1566.5 | 1569.5 | 1565.1 |
| 22.5° | 1419.1 | 1464.6 | 1513.0 | 1540.1 | 1551.1 | 1557.0 | 1568.0 | 1570.9 | 1567.3 | 1568.0 | 1568.7 |
| 25°   | 1445.5 | 1490.3 | 1519.6 | 1526.9 | 1526.2 | 1518.9 | 1510.8 | 1496.9 | 1495.4 | 1489.5 | 1477.8 |
| 27.5° | 1452.9 | 1469.7 | 1466.1 | 1436.0 | 1405.9 | 1403.0 | 1354.6 | 1328.2 | 1298.1 | 1302.5 | 1285.6 |
| 30°   | 1413.3 | 1391.3 | 1339.2 | 1262.9 | 1231.4 | 1180.0 | 1125.8 | 1069.3 | 1047.3 | 1023.1 | 1067.8 |
| 32.5° | 1316.4 | 1238.0 | 1145.6 | 1046.6 | 993.8  | 948.3  | 890.3  | 849.3  | 825.8  | 806.0  | 844.1  |
| 35°   | 1170.5 | 1048.0 | 925.5  | 831.7  | 788.4  | 747.3  | 693.1  | 672.5  | 643.2  | 646.1  | 649.8  |
| 37.5° | 982.8  | 847.8  | 755.4  | 663.0  | 634.4  | 617.5  | 577.9  | 546.4  | 536.1  | 533.2  | 533.2  |
| 40°   | 806.7  | 696.0  | 613.9  | 541.2  | 519.2  | 505.3  | 473.8  | 459.1  | 448.1  | 445.2  | 448.8  |
| 42.5° | 667.4  | 572.8  | 509.0  | 460.6  | 445.2  | 427.6  | 414.4  | 396.0  | 393.8  | 388.7  | 395.3  |
| 45°   | 560.3  | 478.2  | 430.5  | 395.3  | 382.1  | 375.5  | 360.8  | 349.8  | 345.4  | 344.7  | 349.8  |
| 47.5° | 475.2  | 411.4  | 369.6  | 347.6  | 337.4  | 330.8  | 318.3  | 313.9  | 309.5  | 311.0  | 308.8  |
| 50°   | 399.0  | 351.3  | 324.2  | 304.4  | 297.8  | 291.2  | 283.1  | 278.7  | 276.5  | 276.5  | 275.8  |
| 52.5° | 342.5  | 302.9  | 285.3  | 267.0  | 264.0  | 260.4  | 251.6  | 248.6  | 245.0  | 244.2  | 247.2  |
| 55°   | 293.4  | 266.2  | 248.6  | 237.6  | 234.7  | 227.4  | 223.7  | 220.0  | 217.8  | 216.4  | 217.1  |
| 57.5° | 250.8  | 230.3  | 218.6  | 209.0  | 203.9  | 201.0  | 194.4  | 193.6  | 192.1  | 192.1  | 191.4  |
| 60°   | 215.6  | 201.0  | 187.0  | 181.1  | 177.5  | 173.8  | 173.1  | 168.7  | 166.5  | 167.9  | 167.2  |
| 62.5° | 182.6  | 170.9  | 162.8  | 156.2  | 154.0  | 151.1  | 148.9  | 147.4  | 145.2  | 145.9  | 145.9  |
| 65°   | 152.5  | 143.0  | 137.1  | 131.3  | 130.5  | 127.6  | 126.9  | 125.4  | 125.4  | 124.7  | 126.1  |
| 67.5° | 125.4  | 118.8  | 113.7  | 110.0  | 107.8  | 108.5  | 105.6  | 103.4  | 103.4  | 102.7  | 104.9  |
| 70°   | 99.7   | 96.1   | 90.9   | 86.5   | 83.6   | 83.6   | 79.9   | 79.2   | 79.2   | 79.2   | 78.5   |
| 72.5° | 77.0   | 70.4   | 68.2   | 66.7   | 66.7   | 66.7   | 65.3   | 65.3   | 64.5   | 65.3   | 64.5   |
| 75°   | 57.2   | 56.5   | 55.0   | 54.3   | 54.3   | 53.5   | 52.8   | 52.8   | 52.8   | 52.8   | 52.8   |
| 77.5° | 44.7   | 44.7   | 43.3   | 42.5   | 42.5   | 42.5   | 41.8   | 41.8   | 41.1   | 41.1   | 41.1   |
| 80°   | 33.0   | 33.0   | 31.5   | 31.5   | 31.5   | 30.8   | 30.8   | 30.8   | 31.5   | 30.8   | 30.8   |
| 82.5° | 22.7   | 22.7   | 22.0   | 22.7   | 22.0   | 21.3   | 21.3   | 21.3   | 20.5   | 21.3   | 21.3   |
| 85°   | 13.2   | 13.2   | 12.5   | 11.7   | 12.5   | 12.5   | 11.7   | 12.5   | 11.7   | 12.5   | 11.7   |
| 87.5° | 5.1    | 4.4    | 4.4    | 4.4    | 3.7    | 4.4    | 3.7    | 3.7    | 4.4    | 3.7    | 4.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  | 856.6  |
| 2.5°  | 924.8  | 920.4  | 917.5  | 915.3  | 913.1  | 919.7  | 910.9  | 901.3  | 894.7  | 890.3  | 888.9  |
| 5°    | 1021.6 | 1012.1 | 1004.0 | 997.4  | 998.9  | 998.9  | 983.5  | 966.6  | 951.9  | 943.9  | 935.1  |
| 7.5°  | 1133.8 | 1123.6 | 1107.4 | 1103.8 | 1100.8 | 1082.5 | 1067.1 | 1036.3 | 1018.0 | 999.6  | 983.5  |
| 10°   | 1245.3 | 1232.1 | 1216.7 | 1211.6 | 1204.2 | 1181.5 | 1158.0 | 1118.4 | 1095.7 | 1062.0 | 1040.7 |
| 12.5° | 1349.5 | 1333.3 | 1317.9 | 1314.2 | 1303.2 | 1283.4 | 1243.1 | 1202.0 | 1163.2 | 1127.2 | 1089.8 |
| 15°   | 1436.7 | 1432.3 | 1408.9 | 1394.2 | 1370.0 | 1342.8 | 1334.0 | 1278.3 | 1229.2 | 1191.8 | 1124.3 |
| 17.5° | 1510.1 | 1489.5 | 1467.5 | 1458.0 | 1448.5 | 1416.9 | 1385.4 | 1328.2 | 1275.4 | 1220.4 | 1177.1 |
| 20°   | 1568.7 | 1546.0 | 1530.6 | 1516.7 | 1512.3 | 1476.3 | 1426.5 | 1375.9 | 1317.9 | 1256.3 | 1199.8 |
| 22.5° | 1571.7 | 1568.7 | 1558.5 | 1550.4 | 1541.6 | 1518.1 | 1478.5 | 1415.5 | 1353.9 | 1286.4 | 1212.3 |
| 25°   | 1510.8 | 1506.4 | 1535.7 | 1528.4 | 1534.3 | 1525.5 | 1504.2 | 1451.4 | 1379.5 | 1300.3 | 1225.5 |
| 27.5° | 1327.4 | 1372.2 | 1418.4 | 1434.5 | 1445.5 | 1477.1 | 1487.3 | 1458.0 | 1400.1 | 1315.7 | 1232.1 |
| 30°   | 1078.1 | 1137.5 | 1212.3 | 1252.6 | 1283.4 | 1342.1 | 1418.4 | 1427.9 | 1400.8 | 1333.3 | 1230.6 |
| 32.5° | 846.3  | 900.6  | 960.7  | 1008.4 | 1049.5 | 1169.8 | 1272.4 | 1346.5 | 1359.7 | 1324.5 | 1234.3 |
| 35°   | 682.1  | 705.5  | 762.7  | 808.2  | 863.9  | 966.6  | 1087.6 | 1207.2 | 1287.8 | 1292.2 | 1223.3 |
| 37.5° | 562.5  | 575.0  | 624.9  | 650.5  | 683.5  | 773.7  | 886.7  | 1042.9 | 1168.3 | 1227.7 | 1192.5 |
| 40°   | 465.7  | 494.3  | 522.9  | 537.6  | 561.0  | 623.4  | 731.9  | 854.4  | 1009.9 | 1119.9 | 1144.8 |
| 42.5° | 404.1  | 416.6  | 434.9  | 455.4  | 470.1  | 524.4  | 597.0  | 709.2  | 849.3  | 1002.6 | 1071.5 |
| 45°   | 356.4  | 360.8  | 379.9  | 393.1  | 408.5  | 446.6  | 498.0  | 591.9  | 715.1  | 866.1  | 983.5  |
| 47.5° | 316.8  | 325.6  | 335.9  | 344.0  | 354.2  | 383.6  | 427.6  | 495.8  | 604.3  | 739.3  | 865.4  |
| 50°   | 281.6  | 286.8  | 300.0  | 303.6  | 311.0  | 331.5  | 365.2  | 417.3  | 506.8  | 614.6  | 745.1  |
| 52.5° | 248.6  | 258.2  | 263.3  | 268.4  | 275.0  | 291.9  | 313.9  | 356.4  | 423.9  | 525.1  | 635.9  |
| 55°   | 223.0  | 225.9  | 233.2  | 237.6  | 242.8  | 254.5  | 273.6  | 305.1  | 357.9  | 438.6  | 543.4  |
| 57.5° | 198.0  | 198.0  | 205.4  | 209.0  | 214.2  | 223.0  | 239.8  | 264.0  | 302.2  | 362.3  | 458.4  |
| 60°   | 171.6  | 172.3  | 178.2  | 182.6  | 184.1  | 192.9  | 206.8  | 225.9  | 255.2  | 299.2  | 377.7  |
| 62.5° | 148.1  | 151.8  | 154.7  | 156.2  | 161.3  | 166.5  | 178.2  | 191.4  | 212.0  | 250.8  | 306.6  |
| 65°   | 128.3  | 129.1  | 131.3  | 132.7  | 134.9  | 140.8  | 149.6  | 158.4  | 176.0  | 204.6  | 250.1  |
| 67.5° | 105.6  | 108.5  | 111.5  | 111.5  | 113.7  | 116.6  | 125.4  | 132.7  | 145.9  | 162.8  | 193.6  |
| 70°   | 79.2   | 80.7   | 85.1   | 87.3   | 90.2   | 95.3   | 99.7   | 104.1  | 114.4  | 126.9  | 150.3  |
| 72.5° | 66.0   | 66.0   | 67.5   | 68.2   | 68.2   | 71.9   | 78.5   | 82.9   | 88.0   | 96.8   | 112.9  |
| 75°   | 52.8   | 52.8   | 55.0   | 54.3   | 55.7   | 57.2   | 57.9   | 60.9   | 63.8   | 70.4   | 79.9   |
| 77.5° | 41.8   | 42.5   | 42.5   | 43.3   | 43.3   | 44.0   | 44.7   | 46.2   | 47.7   | 51.3   | 55.7   |
| 80°   | 30.8   | 31.5   | 31.5   | 32.3   | 32.3   | 33.0   | 33.7   | 34.5   | 35.9   | 37.4   | 39.6   |
| 82.5° | 21.3   | 22.0   | 22.0   | 22.7   | 22.0   | 22.7   | 23.5   | 23.5   | 24.2   | 25.7   | 26.4   |
| 85°   | 12.5   | 12.5   | 13.2   | 12.5   | 12.5   | 12.5   | 13.2   | 13.2   | 13.9   | 16.1   | 16.1   |
| 87.5° | 3.7    | 4.4    | 3.7    | 4.4    | 4.4    | 4.4    | 4.4    | 5.1    | 5.1    | 5.9    | 6.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1037545

CATALOG NUMBER: S123RDS-B560DB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 856.6  | 856.6  | 856.6  | 856.6  | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 |
| 2.5°  | 886.7  | 883.0  | 879.3  | 879.3  | 871.3 | 863.9 | 860.3 | 861.7 | 857.3 | 851.5 | 845.6 |
| 5°    | 925.5  | 910.9  | 907.9  | 899.9  | 888.9 | 873.5 | 865.4 | 858.1 | 849.3 | 837.5 | 826.5 |
| 7.5°  | 961.5  | 942.4  | 932.1  | 924.1  | 902.8 | 881.5 | 863.9 | 852.2 | 836.8 | 819.2 | 806.0 |
| 10°   | 1008.4 | 973.2  | 962.2  | 943.9  | 913.8 | 883.7 | 863.2 | 844.1 | 822.9 | 802.3 | 784.7 |
| 12.5° | 1045.8 | 1005.5 | 985.0  | 966.6  | 927.7 | 889.6 | 855.1 | 831.7 | 806.0 | 783.3 | 760.5 |
| 15°   | 1088.4 | 1042.9 | 1007.0 | 985.0  | 935.8 | 889.6 | 850.7 | 817.7 | 789.1 | 761.3 | 741.5 |
| 17.5° | 1108.9 | 1051.7 | 1035.6 | 1004.0 | 932.9 | 886.7 | 839.0 | 803.8 | 769.3 | 737.1 | 713.6 |
| 20°   | 1141.2 | 1074.4 | 1034.1 | 1012.8 | 949.7 | 881.5 | 825.8 | 785.5 | 749.5 | 715.1 | 690.1 |
| 22.5° | 1143.4 | 1070.8 | 1044.4 | 1004.0 | 926.3 | 866.1 | 814.1 | 764.9 | 723.1 | 690.9 | 665.2 |
| 25°   | 1138.2 | 1064.2 | 1027.5 | 995.2  | 930.7 | 857.3 | 790.6 | 742.2 | 701.1 | 663.7 | 633.7 |
| 27.5° | 1136.0 | 1045.1 | 1010.6 | 978.4  | 905.7 | 831.7 | 776.7 | 721.7 | 674.7 | 641.7 | 610.9 |
| 30°   | 1133.1 | 1024.6 | 982.8  | 945.3  | 878.6 | 811.9 | 745.9 | 698.2 | 653.5 | 611.7 | 580.9 |
| 32.5° | 1114.0 | 996.7  | 954.1  | 914.5  | 842.7 | 775.9 | 723.9 | 673.3 | 624.9 | 586.0 | 558.1 |
| 35°   | 1108.2 | 971.0  | 915.3  | 872.7  | 802.3 | 742.9 | 687.9 | 646.1 | 600.7 | 561.8 | 528.8 |
| 37.5° | 1091.3 | 944.6  | 884.5  | 830.2  | 756.9 | 700.4 | 660.1 | 618.3 | 574.2 | 532.4 | 506.0 |
| 40°   | 1062.0 | 913.8  | 845.6  | 789.9  | 714.3 | 657.1 | 619.7 | 588.9 | 545.6 | 508.2 | 476.0 |
| 42.5° | 1018.7 | 882.3  | 808.9  | 750.3  | 666.7 | 613.1 | 582.3 | 553.0 | 516.3 | 477.4 | 451.0 |
| 45°   | 968.8  | 840.5  | 772.3  | 707.0  | 621.9 | 569.8 | 537.6 | 520.0 | 486.2 | 453.2 | 422.4 |
| 47.5° | 900.6  | 797.2  | 729.7  | 662.3  | 575.7 | 525.1 | 499.4 | 481.8 | 458.4 | 422.4 | 397.5 |
| 50°   | 814.8  | 741.5  | 677.7  | 617.5  | 530.2 | 481.8 | 456.2 | 443.0 | 423.2 | 397.5 | 373.3 |
| 52.5° | 719.5  | 676.9  | 624.1  | 568.4  | 484.0 | 438.6 | 415.1 | 404.8 | 390.2 | 366.0 | 345.4 |
| 55°   | 623.4  | 605.1  | 569.1  | 514.1  | 435.6 | 398.2 | 377.7 | 364.5 | 353.5 | 335.9 | 318.3 |
| 57.5° | 537.6  | 528.8  | 503.8  | 461.3  | 395.3 | 356.4 | 338.8 | 330.0 | 321.2 | 308.0 | 290.4 |
| 60°   | 448.8  | 458.4  | 432.7  | 411.4  | 351.3 | 317.6 | 302.2 | 292.6 | 288.2 | 276.5 | 265.5 |
| 62.5° | 371.8  | 380.6  | 366.0  | 349.8  | 307.3 | 277.2 | 267.7 | 258.9 | 256.0 | 245.7 | 234.7 |
| 65°   | 302.2  | 313.2  | 302.2  | 293.4  | 267.7 | 242.8 | 231.0 | 226.6 | 223.7 | 217.1 | 208.3 |
| 67.5° | 240.6  | 251.6  | 246.4  | 235.4  | 227.4 | 206.8 | 200.2 | 195.8 | 194.4 | 189.2 | 181.9 |
| 70°   | 181.1  | 196.6  | 198.0  | 191.4  | 184.1 | 174.5 | 170.1 | 168.7 | 165.0 | 160.6 | 156.2 |
| 72.5° | 130.5  | 148.1  | 148.9  | 148.9  | 144.5 | 144.5 | 140.1 | 137.9 | 137.9 | 133.5 | 128.3 |
| 75°   | 96.1   | 107.8  | 109.3  | 110.7  | 112.9 | 115.1 | 112.2 | 112.2 | 111.5 | 107.1 | 104.9 |
| 77.5° | 63.8   | 74.1   | 77.7   | 82.9   | 85.8  | 85.8  | 87.3  | 88.7  | 87.3  | 85.1  | 83.6  |
| 80°   | 41.1   | 48.4   | 52.8   | 55.7   | 60.1  | 62.3  | 64.5  | 65.3  | 63.8  | 63.1  | 60.9  |
| 82.5° | 27.1   | 29.3   | 31.5   | 35.2   | 40.3  | 44.0  | 44.0  | 43.3  | 44.7  | 44.0  | 43.3  |
| 85°   | 15.4   | 16.9   | 17.6   | 18.3   | 21.3  | 24.9  | 25.7  | 26.4  | 27.9  | 26.4  | 24.9  |
| 87.5° | 5.9    | 6.6    | 6.6    | 6.6    | 8.1   | 8.8   | 11.0  | 13.9  | 13.2  | 11.7  | 11.7  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037545

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**CANDELA DISTRIBUTION (continued):**

|       | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 856.6 | 856.6  | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 |
| 2.5°  | 845.6 | 841.9  | 840.5 | 836.8 | 828.0 | 822.1 | 815.5 | 811.1 | 811.9 | 808.2 | 810.4 |
| 5°    | 819.2 | 818.5  | 813.3 | 806.0 | 793.5 | 786.9 | 775.2 | 769.3 | 766.4 | 767.1 | 762.7 |
| 7.5°  | 797.2 | 790.6  | 786.9 | 775.2 | 763.5 | 749.5 | 740.0 | 734.9 | 730.5 | 726.1 | 723.1 |
| 10°   | 772.3 | 766.4  | 760.5 | 748.1 | 731.9 | 718.7 | 705.5 | 700.4 | 693.8 | 690.9 | 688.7 |
| 12.5° | 745.9 | 742.2  | 734.9 | 720.2 | 701.9 | 689.4 | 674.0 | 671.1 | 662.3 | 656.4 | 654.9 |
| 15°   | 721.7 | 719.5  | 706.3 | 689.4 | 671.1 | 658.6 | 645.4 | 636.6 | 621.9 | 624.9 | 619.7 |
| 17.5° | 696.0 | 686.5  | 678.4 | 655.7 | 646.9 | 627.8 | 612.4 | 608.0 | 597.7 | 591.1 | 584.5 |
| 20°   | 667.4 | 661.5  | 651.3 | 636.6 | 615.3 | 593.3 | 581.6 | 574.2 | 568.4 | 558.1 | 555.2 |
| 22.5° | 640.3 | 632.9  | 624.1 | 605.1 | 586.7 | 568.4 | 552.2 | 545.6 | 538.3 | 531.0 | 526.6 |
| 25°   | 619.0 | 608.0  | 598.5 | 575.0 | 556.6 | 541.2 | 531.0 | 520.0 | 509.7 | 505.3 | 503.8 |
| 27.5° | 586.0 | 579.4  | 569.8 | 547.8 | 531.0 | 514.1 | 504.6 | 497.2 | 486.2 | 481.1 | 476.7 |
| 30°   | 564.7 | 551.5  | 540.5 | 522.9 | 506.0 | 487.7 | 478.9 | 470.1 | 463.5 | 456.9 | 451.8 |
| 32.5° | 536.1 | 525.8  | 517.0 | 499.4 | 482.6 | 465.7 | 456.2 | 443.0 | 439.3 | 434.2 | 428.3 |
| 35°   | 508.2 | 501.6  | 492.1 | 473.0 | 454.7 | 443.0 | 432.7 | 420.2 | 415.8 | 412.2 | 407.0 |
| 37.5° | 481.8 | 472.3  | 465.7 | 447.4 | 431.2 | 417.3 | 409.2 | 399.0 | 396.0 | 391.6 | 388.0 |
| 40°   | 459.1 | 449.6  | 443.0 | 424.6 | 407.8 | 393.1 | 388.0 | 377.7 | 373.3 | 368.2 | 366.0 |
| 42.5° | 433.4 | 425.4  | 416.6 | 403.4 | 385.8 | 371.1 | 360.8 | 355.0 | 349.1 | 346.9 | 342.5 |
| 45°   | 406.3 | 399.0  | 392.4 | 377.7 | 359.4 | 349.1 | 340.3 | 332.2 | 327.8 | 324.2 | 321.2 |
| 47.5° | 382.8 | 376.2  | 367.4 | 351.3 | 336.6 | 327.1 | 318.3 | 310.2 | 305.8 | 301.4 | 297.8 |
| 50°   | 355.7 | 352.0  | 342.5 | 327.1 | 313.2 | 302.2 | 294.1 | 286.8 | 283.8 | 278.7 | 272.8 |
| 52.5° | 331.5 | 324.9  | 316.8 | 304.4 | 291.9 | 278.7 | 267.7 | 263.3 | 258.2 | 255.2 | 250.1 |
| 55°   | 302.9 | 298.5  | 289.7 | 278.7 | 265.5 | 254.5 | 246.4 | 240.6 | 234.0 | 231.0 | 224.4 |
| 57.5° | 278.7 | 270.6  | 266.2 | 252.3 | 239.8 | 228.8 | 223.0 | 217.1 | 209.8 | 205.4 | 202.4 |
| 60°   | 252.3 | 245.0  | 238.4 | 226.6 | 217.8 | 206.1 | 197.3 | 192.1 | 187.0 | 181.1 | 178.2 |
| 62.5° | 226.6 | 220.8  | 212.7 | 203.2 | 192.1 | 182.6 | 176.0 | 168.7 | 165.7 | 159.9 | 157.7 |
| 65°   | 198.8 | 194.4  | 187.7 | 176.7 | 167.9 | 159.9 | 153.3 | 147.4 | 144.5 | 142.3 | 140.8 |
| 67.5° | 173.8 | 167.9  | 163.5 | 154.0 | 144.5 | 137.9 | 134.2 | 130.5 | 126.9 | 124.7 | 122.5 |
| 70°   | 148.1 | 143.7  | 139.3 | 130.5 | 123.9 | 118.1 | 115.1 | 112.2 | 110.0 | 107.8 | 105.6 |
| 72.5° | 121.7 | 119.5  | 115.1 | 109.3 | 104.1 | 99.7  | 97.5  | 93.9  | 91.7  | 88.0  | 86.5  |
| 75°   | 100.5 | 96.8   | 94.6  | 89.5  | 85.1  | 81.4  | 78.5  | 74.1  | 71.1  | 69.7  | 68.9  |
| 77.5° | 79.2  | 77.7   | 74.8  | 70.4  | 68.2  | 64.5  | 60.1  | 58.7  | 57.2  | 57.2  | 56.5  |
| 80°   | 59.4  | 57.2   | 55.0  | 51.3  | 49.1  | 46.2  | 46.2  | 46.2  | 45.5  | 46.2  | 45.5  |
| 82.5° | 40.3  | 38.9   | 37.4  | 35.2  | 34.5  | 34.5  | 35.2  | 35.2  | 35.2  | 35.2  | 35.2  |
| 85°   | 23.5  | 23.5   | 23.5  | 24.2  | 23.5  | 23.5  | 24.2  | 24.9  | 24.2  | 24.2  | 23.5  |
| 87.5° | 11.0  | 11.0   | 11.7  | 11.7  | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  | 13.2  |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037545

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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°    | 856.6  | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6  |
| 2.5°  | 809.7  | 810.4 | 808.2 | 803.8 | 803.1 | 804.5 | 808.9 | 807.5 | 803.8 | 810.4 | 804.5  |
| 5°    | 764.9  | 761.3 | 759.8 | 761.3 | 756.9 | 754.7 | 759.1 | 756.9 | 759.1 | 759.8 | 762.0  |
| 7.5°  | 721.7  | 722.4 | 718.0 | 718.7 | 712.9 | 714.3 | 714.3 | 714.3 | 716.5 | 718.0 | 720.9  |
| 10°   | 684.3  | 685.7 | 680.6 | 681.3 | 676.9 | 674.0 | 676.2 | 680.6 | 680.6 | 680.6 | 682.1  |
| 12.5° | 654.2  | 647.6 | 643.9 | 643.2 | 638.1 | 636.6 | 641.0 | 642.5 | 646.1 | 646.1 | 648.3  |
| 15°   | 616.8  | 615.3 | 612.4 | 612.4 | 599.9 | 602.9 | 604.3 | 609.5 | 616.8 | 610.9 | 612.4  |
| 17.5° | 583.1  | 579.4 | 575.7 | 574.2 | 572.8 | 568.4 | 574.2 | 573.5 | 577.9 | 578.7 | 580.9  |
| 20°   | 553.0  | 550.0 | 542.7 | 543.4 | 544.9 | 538.3 | 542.0 | 542.0 | 546.4 | 550.8 | 555.9  |
| 22.5° | 523.6  | 520.7 | 517.0 | 518.5 | 514.1 | 512.6 | 512.6 | 516.3 | 521.4 | 525.1 | 524.4  |
| 25°   | 500.9  | 495.8 | 493.6 | 491.4 | 489.2 | 490.6 | 488.4 | 492.1 | 495.8 | 498.0 | 495.8  |
| 27.5° | 475.2  | 473.0 | 468.6 | 466.4 | 462.8 | 464.2 | 465.7 | 468.6 | 470.8 | 470.8 | 473.0  |
| 30°   | 450.3  | 447.4 | 445.9 | 443.7 | 443.7 | 440.8 | 441.5 | 444.4 | 446.6 | 448.8 | 451.8  |
| 32.5° | 426.1  | 423.9 | 421.7 | 421.7 | 420.2 | 419.5 | 418.8 | 423.2 | 423.2 | 427.6 | 427.6  |
| 35°   | 406.3  | 402.6 | 402.6 | 399.0 | 400.4 | 399.7 | 398.2 | 401.2 | 401.9 | 404.8 | 404.1  |
| 37.5° | 384.3  | 384.3 | 382.8 | 379.2 | 376.2 | 377.0 | 380.6 | 380.6 | 382.8 | 382.1 | 384.3  |
| 40°   | 362.3  | 360.8 | 360.8 | 358.6 | 357.9 | 357.2 | 357.9 | 358.6 | 362.3 | 361.6 | 362.3  |
| 42.5° | 340.3  | 341.0 | 337.4 | 337.4 | 337.4 | 335.2 | 335.9 | 336.6 | 338.1 | 339.6 | 341.8  |
| 45°   | 319.0  | 317.6 | 316.8 | 315.4 | 313.9 | 314.6 | 313.9 | 316.8 | 316.1 | 317.6 | 319.8  |
| 47.5° | 296.3  | 294.1 | 293.4 | 290.4 | 290.4 | 291.9 | 291.2 | 293.4 | 294.1 | 296.3 | 294.8  |
| 50°   | 274.3  | 271.4 | 269.2 | 269.9 | 265.5 | 267.0 | 267.0 | 269.2 | 271.4 | 272.1 | 273.6  |
| 52.5° | 248.6  | 247.9 | 247.2 | 243.5 | 242.8 | 242.0 | 242.8 | 243.5 | 246.4 | 248.6 | 249.4  |
| 55°   | 223.7  | 223.0 | 218.6 | 217.1 | 214.9 | 214.9 | 216.4 | 217.1 | 222.2 | 223.0 | 225.9  |
| 57.5° | 201.0  | 198.8 | 193.6 | 192.9 | 192.9 | 192.9 | 190.7 | 193.6 | 195.1 | 198.8 | 198.8  |
| 60°   | 176.0  | 176.0 | 171.6 | 171.6 | 172.3 | 171.6 | 171.6 | 172.3 | 172.3 | 175.3 | 176.7  |
| 62.5° | 156.2  | 155.5 | 155.5 | 154.0 | 153.3 | 154.0 | 153.3 | 153.3 | 154.0 | 156.2 | 158.4  |
| 65°   | 138.6  | 137.9 | 137.1 | 136.4 | 134.9 | 134.9 | 135.7 | 137.1 | 137.1 | 138.6 | 139.3  |
| 67.5° | 121.7  | 121.7 | 120.3 | 120.3 | 119.5 | 118.8 | 119.5 | 118.8 | 121.7 | 121.7 | 122.5  |
| 70°   | 104.9  | 104.1 | 101.9 | 101.2 | 99.0  | 99.7  | 99.7  | 101.9 | 102.7 | 104.1 | 105.6  |
| 72.5° | 84.3   | 84.3  | 82.9  | 81.4  | 82.1  | 80.7  | 80.7  | 81.4  | 81.4  | 83.6  | 84.3   |
| 75°   | 69.7   | 68.2  | 67.5  | 68.2  | 67.5  | 68.9  | 67.5  | 67.5  | 68.9  | 68.9  | 68.9   |
| 77.5° | 57.2   | 57.2  | 56.5  | 56.5  | 57.2  | 56.5  | 57.2  | 57.2  | 57.2  | 56.5  | 57.2   |
| 80°   | 46.9   | 46.2  | 46.2  | 46.2  | 45.5  | 45.5  | 45.5  | 45.5  | 45.5  | 45.5  | 45.5   |
| 82.5° | 35.2   | 35.2  | 34.5  | 35.2  | 35.2  | 34.5  | 35.2  | 34.5  | 34.5  | 35.2  | 35.2   |
| 85°   | 23.5   | 24.9  | 23.5  | 23.5  | 24.2  | 24.2  | 24.9  | 24.2  | 24.9  | 23.5  | 24.2   |
| 87.5° | 12.5   | 13.2  | 13.2  | 12.5  | 12.5  | 13.2  | 13.2  | 13.2  | 13.9  | 12.5  | 13.2   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

TEST NUMBER: P1037545

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**CANDELA DISTRIBUTION (continued):**

|       | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°    | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6 | 856.6  | 856.6 |
| 2.5°  | 810.4 | 813.3 | 810.4 | 804.5 | 810.4 | 814.1 | 817.7 | 823.6 | 826.5 | 826.5  | 830.9 |
| 5°    | 764.2 | 770.1 | 767.9 | 766.4 | 772.3 | 775.9 | 781.8 | 789.1 | 797.2 | 802.3  | 808.2 |
| 7.5°  | 723.1 | 726.8 | 730.5 | 730.5 | 736.3 | 744.4 | 753.2 | 762.0 | 772.3 | 779.6  | 784.0 |
| 10°   | 687.2 | 690.1 | 692.3 | 695.3 | 704.1 | 712.9 | 724.6 | 735.6 | 744.4 | 752.5  | 759.8 |
| 12.5° | 652.7 | 657.1 | 662.3 | 664.5 | 671.1 | 682.1 | 693.1 | 706.3 | 720.2 | 728.3  | 735.6 |
| 15°   | 619.7 | 621.9 | 627.8 | 634.4 | 640.3 | 652.0 | 665.9 | 679.9 | 691.6 | 704.1  | 710.7 |
| 17.5° | 586.0 | 586.7 | 602.1 | 598.5 | 617.5 | 628.5 | 635.9 | 649.1 | 668.1 | 678.4  | 688.7 |
| 20°   | 553.0 | 560.3 | 566.9 | 570.6 | 580.9 | 593.3 | 614.6 | 624.9 | 640.3 | 649.8  | 658.6 |
| 22.5° | 527.3 | 538.3 | 538.3 | 547.1 | 552.2 | 564.0 | 579.4 | 599.2 | 616.1 | 622.7  | 635.1 |
| 25°   | 504.6 | 509.7 | 518.5 | 521.4 | 531.0 | 541.2 | 551.5 | 572.8 | 591.1 | 599.9  | 608.7 |
| 27.5° | 475.2 | 481.8 | 493.6 | 493.6 | 506.0 | 517.0 | 529.5 | 543.4 | 561.8 | 574.2  | 583.8 |
| 30°   | 452.5 | 459.1 | 464.2 | 472.3 | 477.4 | 487.7 | 509.7 | 520.0 | 536.1 | 547.1  | 558.8 |
| 32.5° | 431.2 | 436.4 | 440.8 | 449.6 | 455.4 | 467.2 | 478.9 | 497.2 | 511.2 | 521.4  | 533.9 |
| 35°   | 407.8 | 412.9 | 418.8 | 425.4 | 434.2 | 445.2 | 456.2 | 471.6 | 485.5 | 495.0  | 505.3 |
| 37.5° | 385.8 | 389.4 | 398.2 | 402.6 | 410.0 | 420.2 | 434.2 | 450.3 | 462.8 | 470.1  | 480.4 |
| 40°   | 364.5 | 367.4 | 374.0 | 382.1 | 387.2 | 395.3 | 410.0 | 423.9 | 439.3 | 448.1  | 456.2 |
| 42.5° | 341.8 | 345.4 | 351.3 | 359.4 | 367.4 | 376.2 | 384.3 | 400.4 | 414.4 | 421.7  | 430.5 |
| 45°   | 322.0 | 324.2 | 328.6 | 336.6 | 344.7 | 351.3 | 363.8 | 378.4 | 391.6 | 397.5  | 407.0 |
| 47.5° | 298.5 | 300.7 | 307.3 | 311.0 | 319.8 | 328.6 | 341.0 | 355.7 | 367.4 | 373.3  | 382.1 |
| 50°   | 274.3 | 276.5 | 280.9 | 289.0 | 294.8 | 304.4 | 315.4 | 327.8 | 342.5 | 350.6  | 355.7 |
| 52.5° | 250.8 | 255.2 | 258.9 | 265.5 | 272.8 | 282.4 | 292.6 | 304.4 | 316.8 | 324.9  | 330.8 |
| 55°   | 227.4 | 231.0 | 235.4 | 239.1 | 247.9 | 256.7 | 268.4 | 279.4 | 290.4 | 297.8  | 304.4 |
| 57.5° | 201.0 | 206.1 | 210.5 | 217.8 | 224.4 | 231.8 | 245.0 | 253.8 | 267.0 | 272.1  | 278.0 |
| 60°   | 178.2 | 183.3 | 187.0 | 192.9 | 198.8 | 208.3 | 217.1 | 228.1 | 239.1 | 245.7  | 253.0 |
| 62.5° | 159.1 | 161.3 | 163.5 | 169.4 | 175.3 | 184.1 | 192.9 | 203.9 | 215.6 | 219.3  | 225.2 |
| 65°   | 140.1 | 142.3 | 145.9 | 151.1 | 155.5 | 160.6 | 170.1 | 178.9 | 189.9 | 195.8  | 198.0 |
| 67.5° | 123.9 | 126.1 | 126.9 | 130.5 | 134.2 | 140.1 | 145.2 | 154.0 | 164.3 | 167.9  | 172.3 |
| 70°   | 105.6 | 109.3 | 110.0 | 112.9 | 114.4 | 118.1 | 123.9 | 130.5 | 138.6 | 145.2  | 148.9 |
| 72.5° | 84.3  | 89.5  | 90.9  | 95.3  | 97.5  | 101.2 | 105.6 | 110.7 | 115.9 | 118.8  | 121.7 |
| 75°   | 68.9  | 70.4  | 71.1  | 74.8  | 78.5  | 83.6  | 85.8  | 88.7  | 93.1  | 96.8   | 99.7  |
| 77.5° | 57.2  | 57.9  | 58.7  | 58.7  | 59.4  | 62.3  | 66.7  | 70.4  | 73.3  | 74.8   | 77.0  |
| 80°   | 46.2  | 45.5  | 45.5  | 46.2  | 46.2  | 46.2  | 47.7  | 52.8  | 54.3  | 57.9   | 57.2  |
| 82.5° | 35.9  | 34.5  | 35.2  | 34.5  | 34.5  | 34.5  | 34.5  | 35.2  | 35.2  | 37.4   | 38.9  |
| 85°   | 23.5  | 24.2  | 23.5  | 23.5  | 22.7  | 23.5  | 22.7  | 22.7  | 22.0  | 22.0   | 21.3  |
| 87.5° | 12.5  | 13.2  | 12.5  | 12.5  | 11.7  | 12.5  | 11.7  | 11.7  | 11.0  | 11.0   | 9.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |

TEST NUMBER: P1037545

CATALOG NUMBER: S123RDS-B560DB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|       | 345°  | 350°  | 355°  | 360°  |
|-------|-------|-------|-------|-------|
| 0°    | 856.6 | 856.6 | 856.6 | 856.6 |
| 2.5°  | 834.6 | 839.7 | 850.0 | 858.8 |
| 5°    | 817.0 | 825.1 | 840.5 | 855.9 |
| 7.5°  | 795.7 | 808.2 | 828.0 | 849.3 |
| 10°   | 775.2 | 791.3 | 815.5 | 840.5 |
| 12.5° | 754.7 | 771.5 | 797.2 | 829.5 |
| 15°   | 730.5 | 748.1 | 778.9 | 817.7 |
| 17.5° | 709.2 | 732.7 | 760.5 | 799.4 |
| 20°   | 686.5 | 704.1 | 740.0 | 781.1 |
| 22.5° | 657.9 | 687.2 | 720.9 | 764.2 |
| 25°   | 635.1 | 660.8 | 694.5 | 743.7 |
| 27.5° | 607.3 | 637.3 | 678.4 | 721.7 |
| 30°   | 584.5 | 609.5 | 647.6 | 699.7 |
| 32.5° | 558.1 | 587.5 | 627.1 | 678.4 |
| 35°   | 534.6 | 559.6 | 597.0 | 649.1 |
| 37.5° | 506.8 | 533.9 | 575.7 | 621.9 |
| 40°   | 482.6 | 509.0 | 548.6 | 591.9 |
| 42.5° | 453.2 | 481.1 | 520.7 | 557.4 |
| 45°   | 429.8 | 455.4 | 487.0 | 520.7 |
| 47.5° | 401.2 | 428.3 | 459.1 | 482.6 |
| 50°   | 375.5 | 400.4 | 424.6 | 444.4 |
| 52.5° | 347.6 | 370.4 | 392.4 | 407.0 |
| 55°   | 322.0 | 339.6 | 357.2 | 367.4 |
| 57.5° | 291.9 | 308.8 | 323.4 | 329.3 |
| 60°   | 265.5 | 279.4 | 289.0 | 295.6 |
| 62.5° | 237.6 | 247.9 | 255.2 | 258.9 |
| 65°   | 210.5 | 217.8 | 221.5 | 225.2 |
| 67.5° | 182.6 | 189.2 | 191.4 | 195.8 |
| 70°   | 153.3 | 160.6 | 162.1 | 164.3 |
| 72.5° | 131.3 | 131.3 | 134.2 | 137.1 |
| 75°   | 104.9 | 106.3 | 107.8 | 107.8 |
| 77.5° | 82.1  | 82.1  | 83.6  | 84.3  |
| 80°   | 60.1  | 60.9  | 60.9  | 60.1  |
| 82.5° | 41.1  | 42.5  | 41.1  | 40.3  |
| 85°   | 22.7  | 25.7  | 24.2  | 24.2  |
| 87.5° | 9.5   | 9.5   | 11.0  | 9.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)