

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: P1013204

Luminaire Tested: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013204  
REPORT IS A COMBINATION OF REPORTS P998825 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K  
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

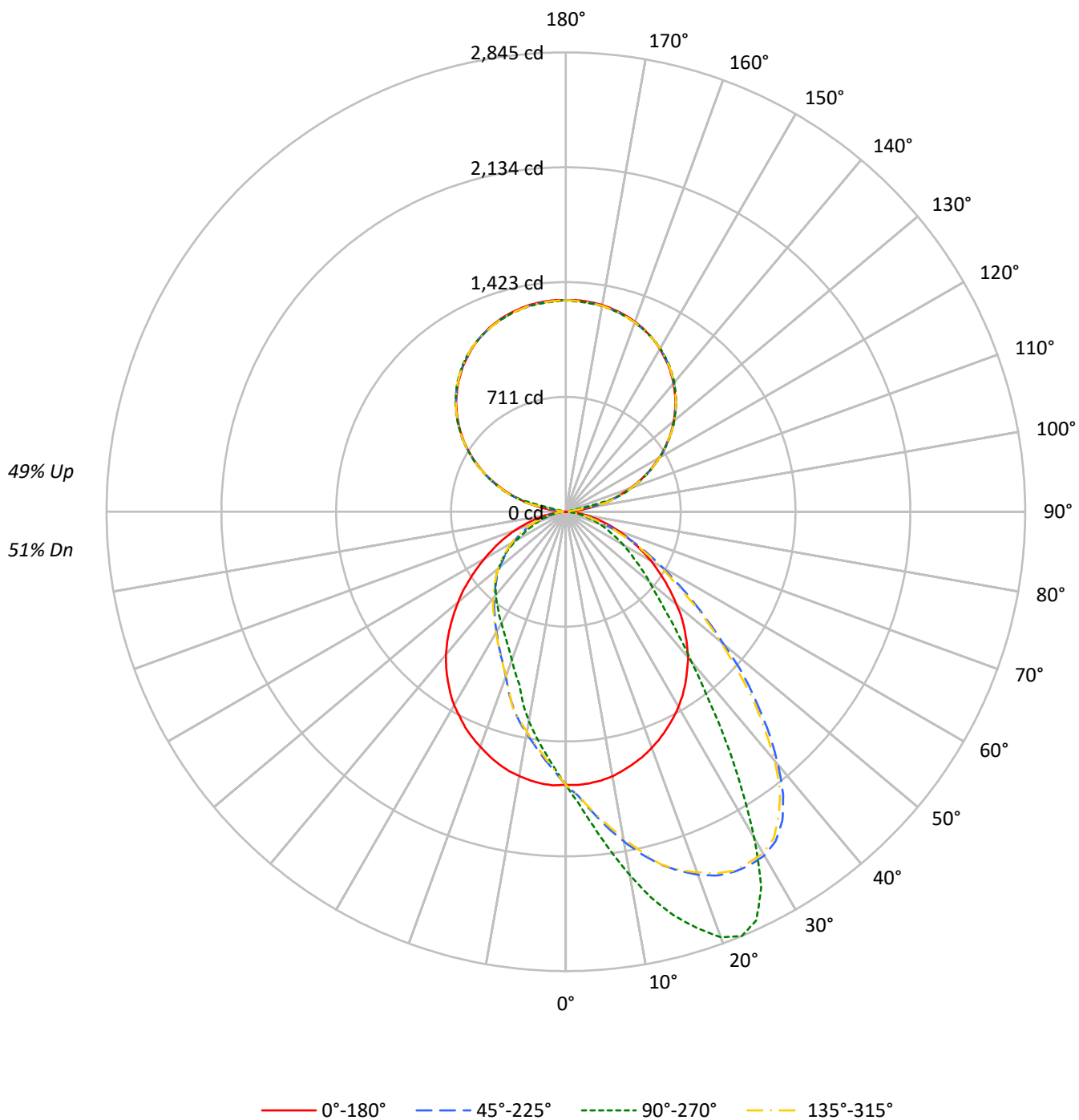
Lumens per Lamp: N/A  
Luminaire Lumens: 8330.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
Input Voltage (V): 120  
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: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013204

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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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 | 51 | 51 |
| 1   | 99  | 94  | 91  | 87  | 91 | 87 | 84 | 81 | 74 | 72 | 70 | 62 | 61 | 59 | 51 | 50 | 49 | 44 | 44 | 44 |
| 2   | 90  | 83  | 77  | 72  | 83 | 77 | 72 | 68 | 66 | 62 | 59 | 55 | 53 | 50 | 46 | 44 | 42 | 38 | 38 | 38 |
| 3   | 83  | 73  | 66  | 61  | 76 | 68 | 62 | 57 | 58 | 54 | 50 | 49 | 46 | 43 | 41 | 39 | 37 | 33 | 33 | 33 |
| 4   | 76  | 65  | 58  | 52  | 70 | 61 | 54 | 49 | 52 | 47 | 43 | 44 | 40 | 37 | 37 | 34 | 32 | 28 | 28 | 28 |
| 5   | 70  | 58  | 50  | 45  | 64 | 54 | 47 | 42 | 47 | 41 | 37 | 40 | 36 | 33 | 33 | 30 | 28 | 25 | 25 | 25 |
| 6   | 64  | 52  | 44  | 39  | 59 | 49 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 29 | 30 | 27 | 25 | 22 | 22 | 22 |
| 7   | 59  | 47  | 40  | 34  | 55 | 44 | 37 | 32 | 39 | 33 | 29 | 33 | 29 | 26 | 28 | 25 | 22 | 20 | 20 | 20 |
| 8   | 55  | 43  | 36  | 30  | 51 | 40 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 26 | 22 | 20 | 18 | 18 | 18 |
| 9   | 51  | 39  | 32  | 27  | 48 | 37 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 20 | 18 | 16 | 16 | 16 |
| 10  | 48  | 36  | 29  | 24  | 45 | 34 | 28 | 23 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 16 | 15 | 15 | 15 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 13787 | 13787 | 13787 | 13787 |
| 5°  | 13787 | 15579 | 13809 | 11907 |
| 10° | 13714 | 17959 | 13702 | 10355 |
| 15° | 13550 | 20212 | 13550 | 8670  |
| 20° | 13380 | 21914 | 13310 | 7634  |
| 25° | 13171 | 22008 | 13110 | 6896  |
| 30° | 12949 | 18714 | 12848 | 6387  |
| 35° | 12636 | 14120 | 12476 | 6008  |
| 40° | 12287 | 10233 | 12045 | 5712  |
| 45° | 11711 | 7778  | 11420 | 5450  |
| 50° | 11027 | 6286  | 10725 | 5066  |
| 55° | 10285 | 5204  | 9949  | 4555  |
| 60° | 9542  | 4400  | 9115  | 3788  |
| 65° | 8607  | 3585  | 8333  | 3011  |
| 70° | 7750  | 2906  | 7387  | 2446  |
| 75° | 6792  | 2095  | 6320  | 1793  |
| 80° | 5602  | 1389  | 5100  | 1318  |
| 85° | 4068  | 715   | 3369  | 715   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 17260 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.7  | 2.0       |
| 10°-20°   | 494.4  | 5.9       |
| 20°-30°   | 774.4  | 9.3       |
| 30°-40°   | 860.0  | 10.3      |
| 40°-50°   | 762.1  | 9.1       |
| 50°-60°   | 593.9  | 7.1       |
| 60°-70°   | 388.5  | 4.7       |
| 70°-80°   | 190.6  | 2.3       |
| 80°-90°   | 49.1   | 0.6       |
| 90°-100°  | 43.5   | 0.5       |
| 100°-110° | 286.4  | 3.4       |
| 110°-120° | 546.8  | 6.6       |
| 120°-130° | 694.2  | 8.3       |
| 130°-140° | 742.6  | 8.9       |
| 140°-150° | 694.4  | 8.3       |
| 150°-160° | 560.0  | 6.7       |
| 160°-170° | 361.1  | 4.3       |
| 170°-180° | 124.5  | 1.5       |
| 0°-30°    | 1432.6 | 17.2      |
| 0°-40°    | 2292.5 | 27.5      |
| 0°-60°    | 3648.5 | 43.8      |
| 0°-90°    | 4276.7 | 51.3      |
| 90°-120°  | 876.6  | 10.5      |
| 90°-150°  | 3007.7 | 36.1      |
| 90°-180°  | 4053.0 | 48.7      |
| 0°-180°   | 8330.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1691 | 1691 | 1691 | 1691 | 1691 |      |
| 5°   | 1688 | 1954 | 1691 | 1493 | 1688 | 160  |
| 15°  | 1616 | 2589 | 1616 | 1110 | 1616 | 456  |
| 25°  | 1481 | 2792 | 1474 | 875  | 1481 | 683  |
| 35°  | 1292 | 1719 | 1275 | 732  | 1292 | 807  |
| 45°  | 1041 | 879  | 1015 | 616  | 1041 | 803  |
| 55°  | 749  | 524  | 725  | 459  | 749  | 670  |
| 65°  | 470  | 306  | 455  | 258  | 470  | 469  |
| 75°  | 236  | 142  | 219  | 121  | 236  | 250  |
| 85°  | 56   | 34   | 46   | 34   | 56   | 63   |
| 90°  | 3    | 29   | 3    | 29   | 3    | 7    |
| 95°  | 54   | 28   | 54   | 28   | 54   | 66   |
| 105° | 295  | 279  | 295  | 279  | 295  | 309  |
| 115° | 551  | 554  | 551  | 554  | 551  | 542  |
| 125° | 774  | 780  | 774  | 780  | 774  | 691  |
| 135° | 960  | 967  | 960  | 967  | 960  | 740  |
| 145° | 1107 | 1113 | 1107 | 1113 | 1107 | 692  |
| 155° | 1214 | 1213 | 1214 | 1213 | 1214 | 560  |
| 165° | 1280 | 1275 | 1280 | 1275 | 1280 | 362  |
| 175° | 1310 | 1302 | 1310 | 1302 | 1310 | 125  |
| 180° | 1310 | 1310 | 1310 | 1310 | 1310 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1693.5 | 1708.5 | 1716.6 | 1723.4 | 1737.1 | 1742.5 | 1753.4 | 1756.1 | 1767.0 | 1765.7 | 1761.6 |
| 5°     | 1688.0 | 1713.9 | 1733.0 | 1753.4 | 1777.9 | 1791.6 | 1806.5 | 1828.3 | 1839.2 | 1854.2 | 1863.8 |
| 7.5°   | 1678.5 | 1713.9 | 1745.2 | 1776.6 | 1816.1 | 1837.9 | 1857.0 | 1891.0 | 1919.6 | 1944.2 | 1971.4 |
| 10°    | 1663.5 | 1708.5 | 1754.8 | 1797.0 | 1851.5 | 1877.4 | 1906.0 | 1956.4 | 1995.9 | 2030.0 | 2073.6 |
| 12.5°  | 1640.3 | 1703.0 | 1754.8 | 1812.0 | 1881.5 | 1916.9 | 1955.0 | 2015.0 | 2061.3 | 2117.2 | 2171.7 |
| 15°    | 1615.8 | 1685.3 | 1753.4 | 1828.3 | 1907.4 | 1948.2 | 1986.4 | 2066.8 | 2137.6 | 2201.6 | 2261.6 |
| 17.5°  | 1588.6 | 1664.9 | 1739.8 | 1822.9 | 1918.3 | 1968.7 | 2013.6 | 2110.4 | 2188.0 | 2271.1 | 2331.1 |
| 20°    | 1555.9 | 1639.0 | 1724.8 | 1817.4 | 1925.1 | 1980.9 | 2031.3 | 2141.7 | 2227.5 | 2317.4 | 2392.4 |
| 22.5°  | 1520.4 | 1610.4 | 1704.4 | 1805.2 | 1916.9 | 1978.2 | 2036.8 | 2155.3 | 2254.8 | 2337.9 | 2438.7 |
| 25°    | 1480.9 | 1576.3 | 1673.0 | 1779.3 | 1904.6 | 1971.4 | 2031.3 | 2148.5 | 2254.8 | 2363.8 | 2461.9 |
| 27.5°  | 1440.1 | 1538.2 | 1639.0 | 1750.7 | 1878.8 | 1944.2 | 2012.3 | 2125.3 | 2249.3 | 2367.9 | 2467.3 |
| 30°    | 1395.1 | 1490.5 | 1596.7 | 1703.0 | 1839.2 | 1904.6 | 1974.1 | 2096.7 | 2231.6 | 2350.1 | 2457.8 |
| 32.5°  | 1346.1 | 1444.1 | 1545.0 | 1655.3 | 1788.8 | 1859.7 | 1923.7 | 2062.7 | 2200.3 | 2317.4 | 2418.3 |
| 35°    | 1291.6 | 1384.2 | 1479.6 | 1592.6 | 1724.8 | 1788.8 | 1865.1 | 2009.5 | 2148.5 | 2272.5 | 2337.9 |
| 37.5°  | 1233.0 | 1321.5 | 1410.1 | 1521.8 | 1648.5 | 1726.2 | 1801.1 | 1946.9 | 2094.0 | 2177.1 | 2211.2 |
| 40°    | 1178.5 | 1256.1 | 1333.8 | 1441.4 | 1569.5 | 1649.9 | 1726.2 | 1877.4 | 2006.8 | 2070.9 | 2045.0 |
| 42.5°  | 1109.0 | 1189.4 | 1258.9 | 1358.3 | 1487.7 | 1562.7 | 1640.3 | 1797.0 | 1901.9 | 1927.8 | 1863.8 |
| 45°    | 1040.9 | 1107.6 | 1174.4 | 1271.1 | 1407.4 | 1471.4 | 1554.5 | 1700.3 | 1787.5 | 1764.3 | 1670.3 |
| 47.5°  | 974.1  | 1028.6 | 1091.3 | 1185.3 | 1307.9 | 1384.2 | 1461.9 | 1588.6 | 1649.9 | 1617.2 | 1486.4 |
| 50°    | 895.1  | 949.6  | 1015.0 | 1096.7 | 1215.3 | 1288.8 | 1350.1 | 1467.3 | 1513.6 | 1433.2 | 1275.2 |
| 52.5°  | 820.2  | 867.9  | 923.7  | 1000.0 | 1113.1 | 1179.8 | 1246.6 | 1347.4 | 1362.4 | 1269.8 | 1103.5 |
| 55°    | 749.3  | 787.5  | 846.1  | 907.4  | 1010.9 | 1081.7 | 1128.1 | 1213.9 | 1209.8 | 1094.0 | 951.0  |
| 57.5°  | 675.8  | 711.2  | 750.7  | 814.7  | 912.8  | 965.9  | 1016.4 | 1091.3 | 1051.8 | 953.7  | 812.0  |
| 60°    | 610.4  | 630.8  | 670.3  | 731.6  | 814.7  | 861.0  | 900.5  | 941.4  | 907.4  | 801.1  | 692.1  |
| 62.5°  | 538.1  | 561.3  | 589.9  | 639.0  | 712.5  | 756.1  | 784.7  | 802.5  | 767.0  | 685.3  | 585.8  |
| 65°    | 470.0  | 490.5  | 520.4  | 564.0  | 619.9  | 652.6  | 667.6  | 679.8  | 660.8  | 568.1  | 489.1  |
| 67.5°  | 408.7  | 422.3  | 449.6  | 478.2  | 538.1  | 546.3  | 566.8  | 572.2  | 534.1  | 463.2  | 400.5  |
| 70°    | 347.4  | 361.0  | 373.3  | 407.4  | 434.6  | 449.6  | 453.7  | 453.7  | 415.5  | 369.2  | 317.4  |
| 72.5°  | 290.2  | 298.4  | 310.6  | 333.8  | 348.8  | 359.7  | 365.1  | 358.3  | 322.9  | 284.7  | 246.6  |
| 75°    | 235.7  | 239.8  | 250.7  | 265.7  | 277.9  | 273.8  | 272.5  | 264.3  | 238.4  | 211.2  | 189.4  |
| 77.5°  | 181.2  | 183.9  | 196.2  | 200.3  | 200.3  | 204.4  | 198.9  | 190.7  | 168.9  | 148.5  | 139.0  |
| 80°    | 136.2  | 140.3  | 141.7  | 144.4  | 141.7  | 141.7  | 137.6  | 124.0  | 113.1  | 103.5  | 96.7   |
| 82.5°  | 94.0   | 96.7   | 98.1   | 94.0   | 96.7   | 92.6   | 85.8   | 76.3   | 69.5   | 68.1   | 65.4   |
| 85°    | 55.9   | 57.2   | 55.9   | 55.9   | 51.8   | 50.4   | 45.0   | 43.6   | 40.9   | 40.9   | 39.5   |
| 87.5°  | 27.2   | 25.9   | 23.2   | 20.4   | 20.4   | 19.1   | 20.4   | 17.7   | 20.4   | 19.1   | 17.7   |
| 90°    | 2.9    | 5.3    | 7.7    | 10.1   | 12.5   | 13.7   | 14.6   | 16.3   | 18.1   | 19.8   | 21.6   |
| 92.5°  | 14.7   | 14.3   | 13.8   | 13.4   | 12.9   | 12.7   | 13.6   | 15.3   | 17.1   | 18.8   | 20.6   |
| 95°    | 53.9   | 46.5   | 39.1   | 31.7   | 24.3   | 20.6   | 20.7   | 20.9   | 21.2   | 21.4   | 21.6   |
| 97.5°  | 102.9  | 107.7  | 112.5  | 117.2  | 122.0  | 124.4  | 113.0  | 90.1   | 67.3   | 44.4   | 21.6   |
| 100°   | 160.7  | 164.6  | 168.5  | 172.4  | 176.3  | 178.3  | 163.3  | 133.2  | 103.2  | 73.1   | 43.1   |
| 102.5° | 225.3  | 227.9  | 230.5  | 233.2  | 235.8  | 237.1  | 238.4  | 241.0  | 243.7  | 246.3  | 248.9  |
| 105°   | 294.9  | 296.2  | 297.5  | 298.8  | 300.1  | 300.8  | 301.3  | 302.4  | 303.5  | 304.6  | 305.7  |
| 107.5° | 358.6  | 359.2  | 359.9  | 360.5  | 361.2  | 361.5  | 362.3  | 363.8  | 365.3  | 366.9  | 368.4  |
| 110°   | 423.2  | 423.9  | 424.5  | 425.2  | 425.9  | 426.2  | 426.9  | 428.2  | 429.5  | 430.8  | 432.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 485.9  | 487.2  | 488.5  | 489.8  | 491.1  | 491.8  | 492.0  | 492.5  | 492.9  | 493.4  | 493.8  |
| 115°   | 550.6  | 551.2  | 551.9  | 552.5  | 553.2  | 553.5  | 553.4  | 553.2  | 553.0  | 552.8  | 552.6  |
| 117.5° | 608.4  | 609.3  | 610.1  | 611.0  | 611.9  | 612.3  | 612.6  | 613.3  | 614.0  | 614.6  | 615.3  |
| 120°   | 667.2  | 668.1  | 668.9  | 669.8  | 670.7  | 671.1  | 671.0  | 670.8  | 670.5  | 670.3  | 670.1  |
| 122.5° | 722.1  | 722.5  | 722.9  | 723.4  | 723.8  | 724.0  | 724.2  | 724.7  | 725.1  | 725.6  | 726.0  |
| 125°   | 774.0  | 774.9  | 775.7  | 776.6  | 777.5  | 777.9  | 777.7  | 777.2  | 776.8  | 776.3  | 775.9  |
| 127.5° | 824.0  | 824.2  | 824.4  | 824.6  | 824.8  | 824.9  | 825.4  | 826.5  | 827.6  | 828.7  | 829.8  |
| 130°   | 872.0  | 872.2  | 872.4  | 872.6  | 872.8  | 872.9  | 873.2  | 873.9  | 874.6  | 875.2  | 875.9  |
| 132.5° | 916.0  | 916.4  | 916.9  | 917.3  | 917.8  | 918.0  | 918.4  | 919.3  | 920.2  | 921.0  | 921.9  |
| 135°   | 960.1  | 959.9  | 959.7  | 959.5  | 959.3  | 959.2  | 959.6  | 960.5  | 961.4  | 962.2  | 963.1  |
| 137.5° | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  | 999.8  | 1000.9 | 1002.0 | 1003.1 | 1004.2 |
| 140°   | 1037.5 | 1037.9 | 1038.4 | 1038.8 | 1039.3 | 1039.5 | 1039.7 | 1040.2 | 1040.6 | 1041.1 | 1041.5 |
| 142.5° | 1071.8 | 1072.7 | 1073.5 | 1074.4 | 1075.3 | 1075.7 | 1075.8 | 1076.0 | 1076.3 | 1076.5 | 1076.7 |
| 145°   | 1107.1 | 1107.7 | 1108.4 | 1109.0 | 1109.7 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.0 |
| 147.5° | 1134.5 | 1135.8 | 1137.1 | 1138.4 | 1139.7 | 1140.4 | 1140.3 | 1140.1 | 1139.8 | 1139.6 | 1139.4 |
| 150°   | 1164.9 | 1165.8 | 1166.6 | 1167.5 | 1168.4 | 1168.8 | 1168.7 | 1168.5 | 1168.2 | 1168.0 | 1167.8 |
| 152.5° | 1190.4 | 1191.0 | 1191.7 | 1192.3 | 1193.0 | 1193.3 | 1193.1 | 1192.7 | 1192.2 | 1191.8 | 1191.4 |
| 155°   | 1213.9 | 1214.1 | 1214.3 | 1214.6 | 1214.8 | 1214.9 | 1214.6 | 1213.9 | 1213.2 | 1212.6 | 1211.9 |
| 157.5° | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.1 | 1233.2 | 1232.3 | 1231.4 | 1230.5 |
| 160°   | 1252.1 | 1251.5 | 1250.8 | 1250.2 | 1249.5 | 1249.2 | 1249.1 | 1248.9 | 1248.6 | 1248.4 | 1248.2 |
| 162.5° | 1267.8 | 1266.9 | 1266.1 | 1265.2 | 1264.3 | 1263.9 | 1263.8 | 1263.6 | 1263.3 | 1263.1 | 1262.9 |
| 165°   | 1280.5 | 1279.4 | 1278.3 | 1277.2 | 1276.1 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1275.6 |
| 167.5° | 1291.3 | 1290.2 | 1289.1 | 1288.0 | 1286.9 | 1286.4 | 1286.3 | 1286.1 | 1285.8 | 1285.6 | 1285.4 |
| 170°   | 1300.1 | 1298.8 | 1297.5 | 1296.2 | 1294.9 | 1294.2 | 1294.3 | 1294.5 | 1294.8 | 1295.0 | 1295.2 |
| 172.5° | 1306.0 | 1304.7 | 1303.4 | 1302.1 | 1300.8 | 1300.1 | 1300.2 | 1300.4 | 1300.7 | 1300.9 | 1301.1 |
| 175°   | 1309.9 | 1308.6 | 1307.3 | 1306.0 | 1304.7 | 1304.0 | 1304.1 | 1304.3 | 1304.6 | 1304.8 | 1305.0 |
| 177.5° | 1312.8 | 1311.3 | 1309.8 | 1308.3 | 1306.8 | 1306.0 | 1306.2 | 1306.6 | 1307.1 | 1307.5 | 1307.9 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

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CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1772.5 | 1787.5 | 1788.8 | 1802.5 | 1798.4 | 1791.6 | 1803.8 | 1795.6 | 1812.0 | 1806.5 | 1813.4 |
| 5°     | 1876.0 | 1896.5 | 1914.2 | 1925.1 | 1944.2 | 1940.1 | 1960.5 | 1953.7 | 1968.7 | 1953.7 | 1972.8 |
| 7.5°   | 1997.3 | 2031.3 | 2049.1 | 2077.7 | 2085.8 | 2087.2 | 2111.7 | 2117.2 | 2126.7 | 2117.2 | 2128.1 |
| 10°    | 2115.8 | 2156.7 | 2197.6 | 2220.7 | 2235.7 | 2256.1 | 2277.9 | 2287.5 | 2294.3 | 2284.8 | 2291.6 |
| 12.5°  | 2223.4 | 2287.5 | 2332.4 | 2378.8 | 2389.7 | 2407.4 | 2430.5 | 2427.8 | 2455.1 | 2449.6 | 2461.9 |
| 15°    | 2322.9 | 2393.7 | 2448.2 | 2485.0 | 2515.0 | 2530.0 | 2573.6 | 2576.3 | 2574.9 | 2588.6 | 2580.4 |
| 17.5°  | 2411.5 | 2471.4 | 2549.1 | 2596.7 | 2633.5 | 2633.5 | 2658.0 | 2708.5 | 2704.4 | 2703.0 | 2711.2 |
| 20°    | 2483.7 | 2551.8 | 2624.0 | 2704.4 | 2734.3 | 2739.8 | 2773.9 | 2799.7 | 2803.8 | 2803.8 | 2803.8 |
| 22.5°  | 2538.2 | 2618.5 | 2696.2 | 2753.4 | 2776.6 | 2795.7 | 2825.6 | 2842.0 | 2847.4 | 2844.7 | 2847.4 |
| 25°    | 2565.4 | 2641.7 | 2720.7 | 2772.5 | 2786.1 | 2797.0 | 2799.7 | 2809.3 | 2807.9 | 2791.6 | 2801.1 |
| 27.5°  | 2570.9 | 2644.4 | 2696.2 | 2709.8 | 2703.0 | 2696.2 | 2652.6 | 2656.7 | 2644.4 | 2619.9 | 2629.4 |
| 30°    | 2546.3 | 2585.8 | 2584.5 | 2542.2 | 2530.0 | 2501.4 | 2461.9 | 2403.3 | 2355.6 | 2335.2 | 2342.0 |
| 32.5°  | 2457.8 | 2457.8 | 2408.7 | 2313.4 | 2271.1 | 2219.4 | 2148.5 | 2095.4 | 2032.7 | 2019.1 | 2045.0 |
| 35°    | 2335.2 | 2265.7 | 2175.8 | 2050.4 | 1986.4 | 1948.2 | 1825.6 | 1787.5 | 1734.3 | 1719.4 | 1731.6 |
| 37.5°  | 2144.4 | 2028.6 | 1897.8 | 1780.7 | 1726.2 | 1658.0 | 1550.4 | 1495.9 | 1457.8 | 1431.9 | 1444.1 |
| 40°    | 1930.5 | 1790.2 | 1654.0 | 1509.5 | 1449.6 | 1393.7 | 1313.4 | 1264.3 | 1203.0 | 1205.7 | 1209.8 |
| 42.5°  | 1726.2 | 1561.3 | 1408.7 | 1275.2 | 1218.0 | 1171.7 | 1115.8 | 1055.9 | 1034.1 | 1027.3 | 1020.4 |
| 45°    | 1509.5 | 1333.8 | 1190.7 | 1091.3 | 1039.5 | 995.9  | 944.1  | 910.1  | 884.2  | 878.8  | 885.6  |
| 47.5°  | 1305.2 | 1156.7 | 1020.4 | 927.8  | 885.6  | 863.8  | 822.9  | 791.6  | 775.2  | 761.6  | 769.8  |
| 50°    | 1119.9 | 980.9  | 871.9  | 794.3  | 764.3  | 749.3  | 711.2  | 694.8  | 678.5  | 674.4  | 673.0  |
| 52.5°  | 967.3  | 848.8  | 754.8  | 692.1  | 668.9  | 660.8  | 632.2  | 609.0  | 595.4  | 599.5  | 602.2  |
| 55°    | 828.3  | 727.5  | 654.0  | 603.5  | 584.5  | 574.9  | 554.5  | 538.1  | 528.6  | 524.5  | 527.3  |
| 57.5°  | 705.7  | 618.5  | 565.4  | 524.5  | 509.5  | 505.5  | 483.7  | 478.2  | 471.4  | 467.3  | 467.3  |
| 60°    | 594.0  | 532.7  | 483.7  | 460.5  | 444.1  | 440.1  | 423.7  | 416.9  | 415.5  | 411.4  | 408.7  |
| 62.5°  | 500.0  | 449.6  | 415.5  | 391.0  | 384.2  | 382.8  | 371.9  | 363.8  | 359.7  | 356.9  | 356.9  |
| 65°    | 418.3  | 381.5  | 352.9  | 335.2  | 329.7  | 327.0  | 314.7  | 312.0  | 309.3  | 306.5  | 305.2  |
| 67.5°  | 348.8  | 316.1  | 295.6  | 283.4  | 276.6  | 277.9  | 271.1  | 265.7  | 265.7  | 264.3  | 262.9  |
| 70°    | 282.0  | 261.6  | 243.9  | 237.1  | 234.3  | 231.6  | 228.9  | 224.8  | 223.4  | 223.4  | 223.4  |
| 72.5°  | 222.1  | 208.4  | 198.9  | 194.8  | 192.1  | 189.4  | 186.6  | 186.6  | 186.6  | 185.3  | 185.3  |
| 75°    | 170.3  | 164.9  | 158.0  | 154.0  | 154.0  | 156.7  | 152.6  | 148.5  | 144.4  | 141.7  | 143.1  |
| 77.5°  | 128.1  | 125.3  | 121.3  | 114.4  | 115.8  | 113.1  | 113.1  | 110.4  | 111.7  | 111.7  | 109.0  |
| 80°    | 94.0   | 89.9   | 88.6   | 84.5   | 85.8   | 84.5   | 83.1   | 83.1   | 80.4   | 80.4   | 80.4   |
| 82.5°  | 65.4   | 61.3   | 61.3   | 59.9   | 58.6   | 58.6   | 57.2   | 57.2   | 58.6   | 55.9   | 55.9   |
| 85°    | 39.5   | 38.1   | 38.1   | 35.4   | 35.4   | 35.4   | 35.4   | 36.8   | 35.4   | 34.1   | 34.1   |
| 87.5°  | 17.7   | 19.1   | 17.7   | 16.3   | 16.3   | 16.3   | 15.0   | 15.0   | 13.6   | 15.0   | 15.0   |
| 90°    | 22.9   | 24.2   | 25.5   | 26.8   | 27.4   | 27.6   | 28.1   | 28.5   | 29.0   | 29.4   | 29.0   |
| 92.5°  | 21.9   | 23.2   | 24.5   | 25.8   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   |
| 95°    | 22.9   | 24.2   | 25.5   | 26.8   | 27.4   | 27.5   | 27.7   | 28.0   | 28.2   | 28.4   | 28.2   |
| 97.5°  | 22.7   | 23.8   | 24.9   | 26.0   | 26.5   | 26.6   | 26.8   | 27.0   | 27.2   | 27.4   | 27.2   |
| 100°   | 39.4   | 35.7   | 32.0   | 28.3   | 26.5   | 26.6   | 26.8   | 27.0   | 27.2   | 27.4   | 27.2   |
| 102.5° | 199.9  | 150.9  | 101.9  | 52.9   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   |
| 105°   | 307.7  | 309.6  | 311.6  | 313.5  | 314.5  | 310.6  | 302.7  | 294.9  | 287.0  | 279.2  | 287.0  |
| 107.5° | 369.5  | 370.6  | 371.7  | 372.8  | 373.3  | 373.7  | 374.6  | 375.5  | 376.3  | 377.2  | 376.3  |
| 110°   | 432.5  | 432.9  | 433.4  | 433.8  | 434.0  | 434.3  | 435.0  | 435.7  | 436.3  | 437.0  | 436.3  |

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CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 493.6  | 493.4  | 493.1  | 492.9  | 492.8  | 493.2  | 494.1  | 495.0  | 495.8  | 496.7  | 495.8  |
| 115°   | 553.0  | 553.4  | 553.9  | 554.3  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  |
| 117.5° | 615.1  | 614.9  | 614.6  | 614.4  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  |
| 120°   | 670.5  | 671.0  | 671.4  | 671.9  | 672.1  | 671.9  | 671.4  | 671.0  | 670.5  | 670.1  | 670.5  |
| 122.5° | 726.2  | 726.4  | 726.7  | 726.9  | 727.0  | 726.8  | 726.3  | 725.9  | 725.4  | 725.0  | 725.4  |
| 125°   | 776.6  | 777.2  | 777.9  | 778.6  | 778.9  | 779.0  | 779.2  | 779.5  | 779.7  | 779.9  | 779.7  |
| 127.5° | 829.6  | 829.4  | 829.2  | 829.0  | 828.9  | 828.8  | 828.6  | 828.3  | 828.1  | 827.9  | 828.1  |
| 130°   | 876.1  | 876.3  | 876.6  | 876.8  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  |
| 132.5° | 922.1  | 922.3  | 922.6  | 922.8  | 922.9  | 922.8  | 922.6  | 922.3  | 922.1  | 921.9  | 922.1  |
| 135°   | 963.5  | 963.9  | 964.4  | 964.8  | 965.0  | 965.2  | 965.7  | 966.1  | 966.6  | 967.0  | 966.6  |
| 137.5° | 1004.6 | 1005.1 | 1005.5 | 1006.0 | 1006.2 | 1006.1 | 1005.9 | 1005.6 | 1005.4 | 1005.2 | 1005.4 |
| 140°   | 1042.1 | 1042.8 | 1043.4 | 1044.1 | 1044.4 | 1044.5 | 1044.7 | 1045.0 | 1045.2 | 1045.4 | 1045.2 |
| 142.5° | 1077.1 | 1077.6 | 1078.0 | 1078.5 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 |
| 145°   | 1110.2 | 1110.4 | 1110.7 | 1110.9 | 1111.0 | 1111.2 | 1111.7 | 1112.1 | 1112.6 | 1113.0 | 1112.6 |
| 147.5° | 1139.6 | 1139.8 | 1140.1 | 1140.3 | 1140.4 | 1140.5 | 1140.7 | 1141.0 | 1141.2 | 1141.4 | 1141.2 |
| 150°   | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1167.9 | 1168.1 | 1168.4 | 1168.6 | 1168.8 | 1168.6 |
| 152.5° | 1191.8 | 1192.2 | 1192.7 | 1193.1 | 1193.3 | 1193.2 | 1193.0 | 1192.7 | 1192.5 | 1192.3 | 1192.5 |
| 155°   | 1212.8 | 1213.6 | 1214.5 | 1215.4 | 1215.8 | 1215.5 | 1214.8 | 1214.2 | 1213.5 | 1212.9 | 1213.5 |
| 157.5° | 1231.6 | 1232.7 | 1233.8 | 1234.9 | 1235.4 | 1234.9 | 1233.8 | 1232.7 | 1231.6 | 1230.5 | 1231.6 |
| 160°   | 1249.5 | 1250.8 | 1252.1 | 1253.4 | 1254.1 | 1253.4 | 1252.1 | 1250.8 | 1249.5 | 1248.2 | 1249.5 |
| 162.5° | 1264.2 | 1265.5 | 1266.8 | 1268.1 | 1268.8 | 1268.0 | 1266.5 | 1265.0 | 1263.4 | 1261.9 | 1263.4 |
| 165°   | 1277.3 | 1279.1 | 1280.8 | 1282.5 | 1283.4 | 1282.4 | 1280.5 | 1278.5 | 1276.6 | 1274.6 | 1276.6 |
| 167.5° | 1287.4 | 1289.3 | 1291.3 | 1293.2 | 1294.2 | 1293.1 | 1290.9 | 1288.8 | 1286.6 | 1284.4 | 1286.6 |
| 170°   | 1296.9 | 1298.7 | 1300.4 | 1302.1 | 1303.0 | 1301.9 | 1299.7 | 1297.6 | 1295.4 | 1293.2 | 1295.4 |
| 172.5° | 1302.8 | 1304.6 | 1306.3 | 1308.0 | 1308.9 | 1307.7 | 1305.3 | 1302.9 | 1300.5 | 1298.1 | 1300.5 |
| 175°   | 1307.0 | 1308.9 | 1310.9 | 1312.8 | 1313.8 | 1312.5 | 1309.9 | 1307.3 | 1304.7 | 1302.1 | 1304.7 |
| 177.5° | 1309.7 | 1311.4 | 1313.2 | 1314.9 | 1315.8 | 1314.5 | 1311.9 | 1309.2 | 1306.6 | 1304.0 | 1306.6 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1817.4 | 1807.9 | 1806.5 | 1806.5 | 1791.6 | 1799.7 | 1783.4 | 1765.7 | 1757.5 | 1757.5 | 1742.5 |
| 5°     | 1968.7 | 1959.1 | 1949.6 | 1934.6 | 1934.6 | 1926.4 | 1900.6 | 1874.7 | 1855.6 | 1839.2 | 1821.5 |
| 7.5°   | 2124.0 | 2114.5 | 2087.2 | 2072.2 | 2080.4 | 2064.0 | 2030.0 | 1986.4 | 1953.7 | 1927.8 | 1891.0 |
| 10°    | 2292.9 | 2267.0 | 2253.4 | 2245.2 | 2216.6 | 2198.9 | 2159.4 | 2095.4 | 2054.5 | 2020.4 | 1972.8 |
| 12.5°  | 2430.5 | 2438.7 | 2386.9 | 2391.0 | 2362.4 | 2337.9 | 2276.6 | 2215.3 | 2154.0 | 2106.3 | 2035.4 |
| 15°    | 2579.0 | 2554.5 | 2523.2 | 2498.6 | 2489.1 | 2459.1 | 2407.4 | 2325.6 | 2258.9 | 2183.9 | 2103.6 |
| 17.5°  | 2696.2 | 2677.1 | 2647.2 | 2624.0 | 2603.6 | 2531.3 | 2487.7 | 2415.5 | 2324.3 | 2250.7 | 2152.6 |
| 20°    | 2795.7 | 2777.9 | 2735.7 | 2720.7 | 2683.9 | 2632.2 | 2569.5 | 2457.8 | 2376.0 | 2295.7 | 2200.3 |
| 22.5°  | 2837.9 | 2820.2 | 2783.4 | 2764.3 | 2741.2 | 2690.7 | 2630.8 | 2524.5 | 2423.7 | 2322.9 | 2222.1 |
| 25°    | 2802.5 | 2802.5 | 2784.8 | 2777.9 | 2757.5 | 2712.5 | 2651.2 | 2561.3 | 2453.7 | 2344.7 | 2224.8 |
| 27.5°  | 2630.8 | 2664.9 | 2677.1 | 2683.9 | 2683.9 | 2685.3 | 2643.1 | 2555.9 | 2451.0 | 2344.7 | 2219.4 |
| 30°    | 2382.8 | 2440.1 | 2490.5 | 2505.5 | 2531.3 | 2560.0 | 2577.7 | 2535.4 | 2441.4 | 2329.7 | 2204.4 |
| 32.5°  | 2070.9 | 2144.4 | 2238.4 | 2261.6 | 2297.0 | 2382.8 | 2430.5 | 2448.2 | 2396.5 | 2298.4 | 2164.9 |
| 35°    | 1760.2 | 1852.9 | 1910.1 | 1980.9 | 2013.6 | 2140.3 | 2246.6 | 2310.6 | 2298.4 | 2239.8 | 2118.5 |
| 37.5°  | 1489.1 | 1542.2 | 1611.7 | 1686.7 | 1752.1 | 1873.3 | 2005.5 | 2129.4 | 2179.8 | 2151.2 | 2060.0 |
| 40°    | 1228.9 | 1291.6 | 1374.7 | 1436.0 | 1480.9 | 1602.2 | 1765.7 | 1900.6 | 2010.9 | 2028.6 | 1972.8 |
| 42.5°  | 1045.0 | 1107.6 | 1158.0 | 1224.8 | 1260.2 | 1377.4 | 1521.8 | 1690.7 | 1821.5 | 1891.0 | 1866.5 |
| 45°    | 903.3  | 941.4  | 982.3  | 1020.4 | 1064.0 | 1167.6 | 1301.1 | 1486.4 | 1633.5 | 1731.6 | 1741.2 |
| 47.5°  | 779.3  | 813.4  | 848.8  | 884.2  | 908.7  | 989.1  | 1111.7 | 1262.9 | 1423.7 | 1558.6 | 1611.7 |
| 50°    | 692.1  | 708.4  | 734.3  | 754.8  | 783.4  | 852.9  | 951.0  | 1081.7 | 1252.0 | 1397.8 | 1467.3 |
| 52.5°  | 606.3  | 626.7  | 647.1  | 664.9  | 683.9  | 733.0  | 822.9  | 936.0  | 1083.1 | 1233.0 | 1318.8 |
| 55°    | 534.1  | 550.4  | 569.5  | 581.7  | 592.6  | 636.2  | 704.4  | 791.6  | 918.3  | 1060.0 | 1166.2 |
| 57.5°  | 475.5  | 482.3  | 498.6  | 505.5  | 517.7  | 553.1  | 602.2  | 679.8  | 782.0  | 919.6  | 1006.8 |
| 60°    | 411.4  | 425.1  | 437.3  | 442.8  | 452.3  | 476.8  | 510.9  | 583.1  | 671.7  | 772.5  | 871.9  |
| 62.5°  | 359.7  | 365.1  | 374.7  | 381.5  | 388.3  | 414.2  | 442.8  | 497.3  | 564.0  | 648.5  | 739.8  |
| 65°    | 312.0  | 314.7  | 320.2  | 329.7  | 333.8  | 352.9  | 369.2  | 408.7  | 471.4  | 535.4  | 626.7  |
| 67.5°  | 262.9  | 265.7  | 272.5  | 277.9  | 282.0  | 294.3  | 312.0  | 340.6  | 374.7  | 445.5  | 495.9  |
| 70°    | 224.8  | 224.8  | 228.9  | 231.6  | 235.7  | 241.1  | 250.7  | 272.5  | 303.8  | 348.8  | 395.1  |
| 72.5°  | 188.0  | 188.0  | 188.0  | 192.1  | 192.1  | 196.2  | 201.6  | 216.6  | 238.4  | 273.8  | 303.8  |
| 75°    | 145.8  | 147.1  | 149.9  | 149.9  | 151.2  | 156.7  | 160.8  | 164.9  | 175.8  | 198.9  | 226.2  |
| 77.5°  | 110.4  | 113.1  | 114.4  | 111.7  | 114.4  | 114.4  | 119.9  | 125.3  | 130.8  | 137.6  | 158.0  |
| 80°    | 81.7   | 83.1   | 80.4   | 81.7   | 81.7   | 84.5   | 87.2   | 85.8   | 88.6   | 96.7   | 102.2  |
| 82.5°  | 54.5   | 55.9   | 55.9   | 55.9   | 55.9   | 59.9   | 59.9   | 58.6   | 59.9   | 61.3   | 62.7   |
| 85°    | 34.1   | 32.7   | 32.7   | 34.1   | 32.7   | 32.7   | 34.1   | 35.4   | 34.1   | 35.4   | 36.8   |
| 87.5°  | 15.0   | 15.0   | 15.0   | 15.0   | 13.6   | 13.6   | 15.0   | 13.6   | 15.0   | 13.6   | 12.3   |
| 90°    | 28.5   | 28.1   | 27.6   | 27.4   | 26.8   | 25.5   | 24.2   | 22.9   | 21.6   | 19.8   | 18.1   |
| 92.5°  | 26.5   | 26.5   | 26.5   | 26.5   | 25.8   | 24.5   | 23.2   | 21.9   | 20.6   | 18.8   | 17.1   |
| 95°    | 28.0   | 27.7   | 27.5   | 27.4   | 26.8   | 25.5   | 24.2   | 22.9   | 21.6   | 21.4   | 21.2   |
| 97.5°  | 27.0   | 26.8   | 26.6   | 26.5   | 26.0   | 24.9   | 23.8   | 22.7   | 21.6   | 44.4   | 67.3   |
| 100°   | 27.0   | 26.8   | 26.6   | 26.5   | 28.3   | 32.0   | 35.7   | 39.4   | 43.1   | 73.1   | 103.2  |
| 102.5° | 28.4   | 28.4   | 28.4   | 28.4   | 52.9   | 101.9  | 150.9  | 199.9  | 248.9  | 246.3  | 243.7  |
| 105°   | 294.9  | 302.7  | 310.6  | 314.5  | 313.5  | 311.6  | 309.6  | 307.7  | 305.7  | 304.6  | 303.5  |
| 107.5° | 375.5  | 374.6  | 373.7  | 373.3  | 372.8  | 371.7  | 370.6  | 369.5  | 368.4  | 366.9  | 365.3  |
| 110°   | 435.7  | 435.0  | 434.3  | 434.0  | 433.8  | 433.4  | 432.9  | 432.5  | 432.1  | 430.8  | 429.5  |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 495.0  | 494.1  | 493.2  | 492.8  | 492.9  | 493.1  | 493.4  | 493.6  | 493.8  | 493.4  | 492.9  |
| 115°   | 554.5  | 554.5  | 554.5  | 554.5  | 554.3  | 553.9  | 553.4  | 553.0  | 552.6  | 552.8  | 553.0  |
| 117.5° | 614.3  | 614.3  | 614.3  | 614.3  | 614.4  | 614.6  | 614.9  | 615.1  | 615.3  | 614.6  | 614.0  |
| 120°   | 671.0  | 671.4  | 671.9  | 672.1  | 671.9  | 671.4  | 671.0  | 670.5  | 670.1  | 670.3  | 670.5  |
| 122.5° | 725.9  | 726.3  | 726.8  | 727.0  | 726.9  | 726.7  | 726.4  | 726.2  | 726.0  | 725.6  | 725.1  |
| 125°   | 779.5  | 779.2  | 779.0  | 778.9  | 778.6  | 777.9  | 777.2  | 776.6  | 775.9  | 776.3  | 776.8  |
| 127.5° | 828.3  | 828.6  | 828.8  | 828.9  | 829.0  | 829.2  | 829.4  | 829.6  | 829.8  | 828.7  | 827.6  |
| 130°   | 876.9  | 876.9  | 876.9  | 876.9  | 876.8  | 876.6  | 876.3  | 876.1  | 875.9  | 875.2  | 874.6  |
| 132.5° | 922.3  | 922.6  | 922.8  | 922.9  | 922.8  | 922.6  | 922.3  | 922.1  | 921.9  | 921.0  | 920.2  |
| 135°   | 966.1  | 965.7  | 965.2  | 965.0  | 964.8  | 964.4  | 963.9  | 963.5  | 963.1  | 962.2  | 961.4  |
| 137.5° | 1005.6 | 1005.9 | 1006.1 | 1006.2 | 1006.0 | 1005.5 | 1005.1 | 1004.6 | 1004.2 | 1003.1 | 1002.0 |
| 140°   | 1045.0 | 1044.7 | 1044.5 | 1044.4 | 1044.1 | 1043.4 | 1042.8 | 1042.1 | 1041.5 | 1041.1 | 1040.6 |
| 142.5° | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.5 | 1078.0 | 1077.6 | 1077.1 | 1076.7 | 1076.5 | 1076.3 |
| 145°   | 1112.1 | 1111.7 | 1111.2 | 1111.0 | 1110.9 | 1110.7 | 1110.4 | 1110.2 | 1110.0 | 1110.0 | 1110.0 |
| 147.5° | 1141.0 | 1140.7 | 1140.5 | 1140.4 | 1140.3 | 1140.1 | 1139.8 | 1139.6 | 1139.4 | 1139.6 | 1139.8 |
| 150°   | 1168.4 | 1168.1 | 1167.9 | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1168.0 | 1168.2 |
| 152.5° | 1192.7 | 1193.0 | 1193.2 | 1193.3 | 1193.1 | 1192.7 | 1192.2 | 1191.8 | 1191.4 | 1191.8 | 1192.2 |
| 155°   | 1214.2 | 1214.8 | 1215.5 | 1215.8 | 1215.4 | 1214.5 | 1213.6 | 1212.8 | 1211.9 | 1212.6 | 1213.2 |
| 157.5° | 1232.7 | 1233.8 | 1234.9 | 1235.4 | 1234.9 | 1233.8 | 1232.7 | 1231.6 | 1230.5 | 1231.4 | 1232.3 |
| 160°   | 1250.8 | 1252.1 | 1253.4 | 1254.1 | 1253.4 | 1252.1 | 1250.8 | 1249.5 | 1248.2 | 1248.4 | 1248.6 |
| 162.5° | 1265.0 | 1266.5 | 1268.0 | 1268.8 | 1268.1 | 1266.8 | 1265.5 | 1264.2 | 1262.9 | 1263.1 | 1263.3 |
| 165°   | 1278.5 | 1280.5 | 1282.4 | 1283.4 | 1282.5 | 1280.8 | 1279.1 | 1277.3 | 1275.6 | 1275.6 | 1275.6 |
| 167.5° | 1288.8 | 1290.9 | 1293.1 | 1294.2 | 1293.2 | 1291.3 | 1289.3 | 1287.4 | 1285.4 | 1285.6 | 1285.8 |
| 170°   | 1297.6 | 1299.7 | 1301.9 | 1303.0 | 1302.1 | 1300.4 | 1298.7 | 1296.9 | 1295.2 | 1295.0 | 1294.8 |
| 172.5° | 1302.9 | 1305.3 | 1307.7 | 1308.9 | 1308.0 | 1306.3 | 1304.6 | 1302.8 | 1301.1 | 1300.9 | 1300.7 |
| 175°   | 1307.3 | 1309.9 | 1312.5 | 1313.8 | 1312.8 | 1310.9 | 1308.9 | 1307.0 | 1305.0 | 1304.8 | 1304.6 |
| 177.5° | 1309.2 | 1311.9 | 1314.5 | 1315.8 | 1314.9 | 1313.2 | 1311.4 | 1309.7 | 1307.9 | 1307.5 | 1307.1 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1734.3 | 1727.5 | 1723.4 | 1722.1 | 1709.8 | 1703.0 | 1698.9 | 1696.2 | 1692.1 | 1681.2 | 1671.7 |
| 5°     | 1799.7 | 1780.7 | 1771.1 | 1760.2 | 1741.2 | 1719.4 | 1701.6 | 1690.7 | 1677.1 | 1655.3 | 1634.9 |
| 7.5°   | 1861.0 | 1832.4 | 1813.4 | 1798.4 | 1765.7 | 1730.3 | 1701.6 | 1678.5 | 1652.6 | 1622.6 | 1594.0 |
| 10°    | 1925.1 | 1878.8 | 1854.2 | 1831.1 | 1783.4 | 1737.1 | 1696.2 | 1662.1 | 1625.3 | 1585.8 | 1554.5 |
| 12.5°  | 1975.5 | 1914.2 | 1886.9 | 1854.2 | 1795.6 | 1741.2 | 1689.4 | 1643.1 | 1595.4 | 1553.1 | 1508.2 |
| 15°    | 2034.1 | 1957.8 | 1926.4 | 1884.2 | 1803.8 | 1733.0 | 1666.2 | 1615.8 | 1566.8 | 1504.1 | 1456.4 |
| 17.5°  | 2068.1 | 1979.6 | 1934.6 | 1897.8 | 1810.6 | 1724.8 | 1647.1 | 1584.5 | 1527.3 | 1464.6 | 1414.2 |
| 20°    | 2102.2 | 2001.4 | 1951.0 | 1899.2 | 1795.6 | 1704.4 | 1622.6 | 1547.7 | 1487.7 | 1419.6 | 1367.9 |
| 22.5°  | 2113.1 | 1995.9 | 1942.8 | 1895.1 | 1786.1 | 1683.9 | 1589.9 | 1513.6 | 1444.1 | 1376.0 | 1317.4 |
| 25°    | 2113.1 | 1994.6 | 1931.9 | 1870.6 | 1756.1 | 1651.2 | 1557.2 | 1474.1 | 1396.5 | 1328.3 | 1269.8 |
| 27.5°  | 2091.3 | 1967.3 | 1901.9 | 1846.1 | 1727.5 | 1614.4 | 1517.7 | 1426.4 | 1351.5 | 1283.4 | 1216.6 |
| 30°    | 2064.0 | 1927.8 | 1862.4 | 1795.6 | 1681.2 | 1573.6 | 1468.7 | 1384.2 | 1305.2 | 1227.5 | 1167.6 |
| 32.5°  | 2030.0 | 1885.6 | 1813.4 | 1745.2 | 1624.0 | 1512.3 | 1415.5 | 1332.4 | 1257.5 | 1177.1 | 1110.4 |
| 35°    | 1980.9 | 1822.9 | 1742.5 | 1682.6 | 1565.4 | 1449.6 | 1357.0 | 1275.2 | 1203.0 | 1119.9 | 1047.7 |
| 37.5°  | 1918.3 | 1765.7 | 1683.9 | 1610.4 | 1489.1 | 1382.8 | 1295.6 | 1216.6 | 1145.8 | 1069.5 | 989.1  |
| 40°    | 1844.7 | 1685.3 | 1614.4 | 1536.8 | 1408.7 | 1307.9 | 1226.2 | 1155.3 | 1084.5 | 1012.3 | 934.6  |
| 42.5°  | 1761.6 | 1603.5 | 1524.5 | 1449.6 | 1327.0 | 1227.5 | 1151.2 | 1087.2 | 1021.8 | 955.0  | 871.9  |
| 45°    | 1662.1 | 1513.6 | 1437.3 | 1366.5 | 1248.0 | 1145.8 | 1076.3 | 1015.0 | 959.1  | 891.0  | 817.4  |
| 47.5°  | 1550.4 | 1421.0 | 1343.3 | 1267.0 | 1151.2 | 1062.7 | 994.6  | 942.8  | 895.1  | 827.0  | 760.2  |
| 50°    | 1441.4 | 1313.4 | 1250.7 | 1173.0 | 1066.8 | 983.7  | 914.2  | 870.6  | 833.8  | 767.0  | 707.1  |
| 52.5°  | 1303.8 | 1207.1 | 1147.1 | 1080.4 | 978.2  | 893.7  | 839.2  | 801.1  | 757.5  | 705.7  | 652.6  |
| 55°    | 1182.6 | 1092.6 | 1045.0 | 982.3  | 881.5  | 806.5  | 760.2  | 724.8  | 690.7  | 644.4  | 602.2  |
| 57.5°  | 1045.0 | 989.1  | 941.4  | 886.9  | 787.5  | 723.4  | 682.6  | 652.6  | 621.3  | 583.1  | 549.0  |
| 60°    | 900.5  | 874.7  | 828.3  | 784.7  | 700.3  | 644.4  | 610.4  | 583.1  | 553.1  | 521.8  | 493.2  |
| 62.5°  | 772.5  | 757.5  | 730.2  | 696.2  | 617.2  | 569.5  | 535.4  | 515.0  | 493.2  | 464.6  | 437.3  |
| 65°    | 651.2  | 644.4  | 618.5  | 594.0  | 539.5  | 497.3  | 467.3  | 455.0  | 430.5  | 408.7  | 384.2  |
| 67.5°  | 543.6  | 535.4  | 520.4  | 509.5  | 463.2  | 423.7  | 408.7  | 392.4  | 371.9  | 355.6  | 335.2  |
| 70°    | 434.6  | 433.2  | 423.7  | 410.1  | 385.6  | 356.9  | 342.0  | 331.1  | 310.6  | 298.4  | 283.4  |
| 72.5°  | 337.9  | 344.7  | 336.5  | 331.1  | 314.7  | 294.3  | 280.7  | 273.8  | 257.5  | 248.0  | 237.1  |
| 75°    | 252.0  | 257.5  | 261.6  | 252.0  | 248.0  | 238.4  | 226.2  | 219.3  | 211.2  | 197.5  | 193.5  |
| 77.5°  | 171.7  | 183.9  | 183.9  | 186.6  | 188.0  | 182.6  | 173.0  | 167.6  | 158.0  | 155.3  | 149.9  |
| 80°    | 113.1  | 124.0  | 125.3  | 128.1  | 132.2  | 132.2  | 125.3  | 124.0  | 114.4  | 113.1  | 109.0  |
| 82.5°  | 65.4   | 74.9   | 80.4   | 84.5   | 83.1   | 88.6   | 83.1   | 81.7   | 76.3   | 76.3   | 73.6   |
| 85°    | 35.4   | 36.8   | 39.5   | 42.2   | 45.0   | 47.7   | 47.7   | 46.3   | 45.0   | 43.6   | 40.9   |
| 87.5°  | 13.6   | 13.6   | 15.0   | 13.6   | 15.0   | 17.7   | 19.1   | 19.1   | 17.7   | 16.3   | 13.6   |
| 90°    | 16.3   | 14.6   | 13.7   | 12.5   | 10.1   | 7.7    | 5.3    | 2.9    | 5.3    | 7.7    | 10.1   |
| 92.5°  | 15.3   | 13.6   | 12.7   | 12.9   | 13.4   | 13.8   | 14.3   | 14.7   | 14.3   | 13.8   | 13.4   |
| 95°    | 20.9   | 20.7   | 20.6   | 24.3   | 31.7   | 39.1   | 46.5   | 53.9   | 46.5   | 39.1   | 31.7   |
| 97.5°  | 90.1   | 113.0  | 124.4  | 122.0  | 117.2  | 112.5  | 107.7  | 102.9  | 107.7  | 112.5  | 117.2  |
| 100°   | 133.2  | 163.3  | 178.3  | 176.3  | 172.4  | 168.5  | 164.6  | 160.7  | 164.6  | 168.5  | 172.4  |
| 102.5° | 241.0  | 238.4  | 237.1  | 235.8  | 233.2  | 230.5  | 227.9  | 225.3  | 227.9  | 230.5  | 233.2  |
| 105°   | 302.4  | 301.3  | 300.8  | 300.1  | 298.8  | 297.5  | 296.2  | 294.9  | 296.2  | 297.5  | 298.8  |
| 107.5° | 363.8  | 362.3  | 361.5  | 361.2  | 360.5  | 359.9  | 359.2  | 358.6  | 359.2  | 359.9  | 360.5  |
| 110°   | 428.2  | 426.9  | 426.2  | 425.9  | 425.2  | 424.5  | 423.9  | 423.2  | 423.9  | 424.5  | 425.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.5  | 492.0  | 491.8  | 491.1  | 489.8  | 488.5  | 487.2  | 485.9  | 487.2  | 488.5  | 489.8  |
| 115°   | 553.2  | 553.4  | 553.5  | 553.2  | 552.5  | 551.9  | 551.2  | 550.6  | 551.2  | 551.9  | 552.5  |
| 117.5° | 613.3  | 612.6  | 612.3  | 611.9  | 611.0  | 610.1  | 609.3  | 608.4  | 609.3  | 610.1  | 611.0  |
| 120°   | 670.8  | 671.0  | 671.1  | 670.7  | 669.8  | 668.9  | 668.1  | 667.2  | 668.1  | 668.9  | 669.8  |
| 122.5° | 724.7  | 724.2  | 724.0  | 723.8  | 723.4  | 722.9  | 722.5  | 722.1  | 722.5  | 722.9  | 723.4  |
| 125°   | 777.2  | 777.7  | 777.9  | 777.5  | 776.6  | 775.7  | 774.9  | 774.0  | 774.9  | 775.7  | 776.6  |
| 127.5° | 826.5  | 825.4  | 824.9  | 824.8  | 824.6  | 824.4  | 824.2  | 824.0  | 824.2  | 824.4  | 824.6  |
| 130°   | 873.9  | 873.2  | 872.9  | 872.8  | 872.6  | 872.4  | 872.2  | 872.0  | 872.2  | 872.4  | 872.6  |
| 132.5° | 919.3  | 918.4  | 918.0  | 917.8  | 917.3  | 916.9  | 916.4  | 916.0  | 916.4  | 916.9  | 917.3  |
| 135°   | 960.5  | 959.6  | 959.2  | 959.3  | 959.5  | 959.7  | 959.9  | 960.1  | 959.9  | 959.7  | 959.5  |
| 137.5° | 1000.9 | 999.8  | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  | 999.3  |
| 140°   | 1040.2 | 1039.7 | 1039.5 | 1039.3 | 1038.8 | 1038.4 | 1037.9 | 1037.5 | 1037.9 | 1038.4 | 1038.8 |
| 142.5° | 1076.0 | 1075.8 | 1075.7 | 1075.3 | 1074.4 | 1073.5 | 1072.7 | 1071.8 | 1072.7 | 1073.5 | 1074.4 |
| 145°   | 1110.0 | 1110.0 | 1110.0 | 1109.7 | 1109.0 | 1108.4 | 1107.7 | 1107.1 | 1107.7 | 1108.4 | 1109.0 |
| 147.5° | 1140.1 | 1140.3 | 1140.4 | 1139.7 | 1138.4 | 1137.1 | 1135.8 | 1134.5 | 1135.8 | 1137.1 | 1138.4 |
| 150°   | 1168.5 | 1168.7 | 1168.8 | 1168.4 | 1167.5 | 1166.6 | 1165.8 | 1164.9 | 1165.8 | 1166.6 | 1167.5 |
| 152.5° | 1192.7 | 1193.1 | 1193.3 | 1193.0 | 1192.3 | 1191.7 | 1191.0 | 1190.4 | 1191.0 | 1191.7 | 1192.3 |
| 155°   | 1213.9 | 1214.6 | 1214.9 | 1214.8 | 1214.6 | 1214.3 | 1214.1 | 1213.9 | 1214.1 | 1214.3 | 1214.6 |
| 157.5° | 1233.2 | 1234.1 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 | 1234.5 |
| 160°   | 1248.9 | 1249.1 | 1249.2 | 1249.5 | 1250.2 | 1250.8 | 1251.5 | 1252.1 | 1251.5 | 1250.8 | 1250.2 |
| 162.5° | 1263.6 | 1263.8 | 1263.9 | 1264.3 | 1265.2 | 1266.1 | 1266.9 | 1267.8 | 1266.9 | 1266.1 | 1265.2 |
| 165°   | 1275.6 | 1275.6 | 1275.6 | 1276.1 | 1277.2 | 1278.3 | 1279.4 | 1280.5 | 1279.4 | 1278.3 | 1277.2 |
| 167.5° | 1286.1 | 1286.3 | 1286.4 | 1286.9 | 1288.0 | 1289.1 | 1290.2 | 1291.3 | 1290.2 | 1289.1 | 1288.0 |
| 170°   | 1294.5 | 1294.3 | 1294.2 | 1294.9 | 1296.2 | 1297.5 | 1298.8 | 1300.1 | 1298.8 | 1297.5 | 1296.2 |
| 172.5° | 1300.4 | 1300.2 | 1300.1 | 1300.8 | 1302.1 | 1303.4 | 1304.7 | 1306.0 | 1304.7 | 1303.4 | 1302.1 |
| 175°   | 1304.3 | 1304.1 | 1304.0 | 1304.7 | 1306.0 | 1307.3 | 1308.6 | 1309.9 | 1308.6 | 1307.3 | 1306.0 |
| 177.5° | 1306.6 | 1306.2 | 1306.0 | 1306.8 | 1308.3 | 1309.8 | 1311.3 | 1312.8 | 1311.3 | 1309.8 | 1308.3 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1663.5 | 1660.8 | 1658.0 | 1647.1 | 1637.6 | 1621.3 | 1607.6 | 1602.2 | 1600.8 | 1602.2 | 1598.1 |
| 5°     | 1615.8 | 1614.4 | 1604.9 | 1585.8 | 1568.1 | 1549.1 | 1535.4 | 1521.8 | 1513.6 | 1513.6 | 1504.1 |
| 7.5°   | 1570.9 | 1561.3 | 1553.1 | 1528.6 | 1508.2 | 1482.3 | 1461.9 | 1449.6 | 1442.8 | 1427.8 | 1427.8 |
| 10°    | 1523.2 | 1509.5 | 1498.6 | 1475.5 | 1445.5 | 1419.6 | 1393.7 | 1378.8 | 1366.5 | 1355.6 | 1351.5 |
| 12.5°  | 1475.5 | 1464.6 | 1444.1 | 1419.6 | 1389.7 | 1357.0 | 1329.7 | 1318.8 | 1290.2 | 1267.0 | 1268.4 |
| 15°    | 1430.5 | 1406.0 | 1396.5 | 1361.0 | 1325.6 | 1294.3 | 1254.8 | 1223.4 | 1200.3 | 1185.3 | 1166.2 |
| 17.5°  | 1380.1 | 1355.6 | 1337.9 | 1307.9 | 1261.6 | 1212.5 | 1174.4 | 1132.2 | 1109.0 | 1083.1 | 1070.8 |
| 20°    | 1324.3 | 1303.8 | 1290.2 | 1242.5 | 1186.7 | 1128.1 | 1085.8 | 1060.0 | 1034.1 | 1015.0 | 1004.1 |
| 22.5°  | 1276.6 | 1250.7 | 1234.3 | 1170.3 | 1109.0 | 1050.4 | 1017.7 | 995.9  | 974.1  | 957.8  | 952.3  |
| 25°    | 1215.3 | 1200.3 | 1160.8 | 1104.9 | 1030.0 | 990.5  | 961.9  | 933.2  | 921.0  | 910.1  | 897.8  |
| 27.5°  | 1164.9 | 1128.1 | 1100.8 | 1027.3 | 980.9  | 936.0  | 907.4  | 885.6  | 870.6  | 859.7  | 850.1  |
| 30°    | 1102.2 | 1068.1 | 1030.0 | 968.7  | 926.4  | 884.2  | 858.3  | 840.6  | 824.3  | 817.4  | 809.3  |
| 32.5°  | 1036.8 | 1005.5 | 968.7  | 919.6  | 867.9  | 835.2  | 814.7  | 795.6  | 784.7  | 777.9  | 768.4  |
| 35°    | 978.2  | 938.7  | 914.2  | 867.9  | 825.6  | 788.8  | 769.8  | 753.4  | 741.1  | 738.4  | 737.1  |
| 37.5°  | 915.5  | 885.6  | 862.4  | 814.7  | 779.3  | 748.0  | 730.2  | 712.5  | 705.7  | 704.4  | 698.9  |
| 40°    | 861.0  | 835.2  | 813.4  | 768.4  | 730.2  | 701.6  | 688.0  | 677.1  | 670.3  | 670.3  | 668.9  |
| 42.5°  | 813.4  | 786.1  | 764.3  | 723.4  | 689.4  | 663.5  | 648.5  | 637.6  | 634.9  | 636.2  | 634.9  |
| 45°    | 760.2  | 737.1  | 715.3  | 673.0  | 644.4  | 625.3  | 609.0  | 603.5  | 599.5  | 600.8  | 602.2  |
| 47.5°  | 709.8  | 690.7  | 668.9  | 634.9  | 602.2  | 581.7  | 572.2  | 566.8  | 566.8  | 566.8  | 569.5  |
| 50°    | 664.9  | 643.1  | 624.0  | 588.6  | 558.6  | 542.2  | 534.1  | 527.3  | 528.6  | 530.0  | 531.3  |
| 52.5°  | 611.7  | 592.6  | 579.0  | 543.6  | 521.8  | 501.4  | 491.8  | 493.2  | 491.8  | 491.8  | 494.6  |
| 55°    | 565.4  | 546.3  | 532.7  | 500.0  | 478.2  | 464.6  | 456.4  | 452.3  | 453.7  | 451.0  | 456.4  |
| 57.5°  | 513.6  | 497.3  | 487.7  | 456.4  | 437.3  | 425.1  | 418.3  | 411.4  | 414.2  | 412.8  | 411.4  |
| 60°    | 468.7  | 449.6  | 434.6  | 412.8  | 396.5  | 381.5  | 377.4  | 370.6  | 373.3  | 370.6  | 369.2  |
| 62.5°  | 416.9  | 401.9  | 391.0  | 369.2  | 355.6  | 343.3  | 333.8  | 329.7  | 328.3  | 324.3  | 320.2  |
| 65°    | 365.1  | 356.9  | 346.1  | 324.3  | 310.6  | 301.1  | 295.6  | 291.6  | 290.2  | 279.3  | 267.0  |
| 67.5°  | 317.4  | 312.0  | 301.1  | 284.7  | 272.5  | 262.9  | 254.8  | 248.0  | 239.8  | 231.6  | 224.8  |
| 70°    | 272.5  | 264.3  | 257.5  | 242.5  | 231.6  | 222.1  | 213.9  | 205.7  | 201.6  | 193.5  | 190.7  |
| 72.5°  | 228.9  | 220.7  | 213.9  | 200.3  | 190.7  | 181.2  | 178.5  | 168.9  | 164.9  | 163.5  | 163.5  |
| 75°    | 183.9  | 177.1  | 173.0  | 160.8  | 152.6  | 145.8  | 141.7  | 139.0  | 136.2  | 133.5  | 129.4  |
| 77.5°  | 140.3  | 136.2  | 133.5  | 125.3  | 118.5  | 114.4  | 113.1  | 103.5  | 100.8  | 98.1   | 95.4   |
| 80°    | 102.2  | 100.8  | 98.1   | 91.3   | 88.6   | 79.0   | 79.0   | 76.3   | 74.9   | 74.9   | 74.9   |
| 82.5°  | 69.5   | 66.8   | 65.4   | 58.6   | 57.2   | 55.9   | 54.5   | 53.1   | 54.5   | 53.1   | 54.5   |
| 85°    | 36.8   | 35.4   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 34.1   | 32.7   | 34.1   |
| 87.5°  | 13.6   | 13.6   | 13.6   | 13.6   | 12.3   | 13.6   | 13.6   | 12.3   | 13.6   | 13.6   | 13.6   |
| 90°    | 12.5   | 13.7   | 14.6   | 16.3   | 18.1   | 19.8   | 21.6   | 22.9   | 24.2   | 25.5   | 26.8   |
| 92.5°  | 12.9   | 12.7   | 13.6   | 15.3   | 17.1   | 18.8   | 20.6   | 21.9   | 23.2   | 24.5   | 25.8   |
| 95°    | 24.3   | 20.6   | 20.7   | 20.9   | 21.2   | 21.4   | 21.6   | 22.9   | 24.2   | 25.5   | 26.8   |
| 97.5°  | 122.0  | 124.4  | 113.0  | 90.1   | 67.3   | 44.4   | 21.6   | 22.7   | 23.8   | 24.9   | 26.0   |
| 100°   | 176.3  | 178.3  | 163.3  | 133.2  | 103.2  | 73.1   | 43.1   | 39.4   | 35.7   | 32.0   | 28.3   |
| 102.5° | 235.8  | 237.1  | 238.4  | 241.0  | 243.7  | 246.3  | 248.9  | 199.9  | 150.9  | 101.9  | 52.9   |
| 105°   | 300.1  | 300.8  | 301.3  | 302.4  | 303.5  | 304.6  | 305.7  | 307.7  | 309.6  | 311.6  | 313.5  |
| 107.5° | 361.2  | 361.5  | 362.3  | 363.8  | 365.3  | 366.9  | 368.4  | 369.5  | 370.6  | 371.7  | 372.8  |
| 110°   | 425.9  | 426.2  | 426.9  | 428.2  | 429.5  | 430.8  | 432.1  | 432.5  | 432.9  | 433.4  | 433.8  |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 491.1  | 491.8  | 492.0  | 492.5  | 492.9  | 493.4  | 493.8  | 493.6  | 493.4  | 493.1  | 492.9  |
| 115°   | 553.2  | 553.5  | 553.4  | 553.2  | 553.0  | 552.8  | 552.6  | 553.0  | 553.4  | 553.9  | 554.3  |
| 117.5° | 611.9  | 612.3  | 612.6  | 613.3  | 614.0  | 614.6  | 615.3  | 615.1  | 614.9  | 614.6  | 614.4  |
| 120°   | 670.7  | 671.1  | 671.0  | 670.8  | 670.5  | 670.3  | 670.1  | 670.5  | 671.0  | 671.4  | 671.9  |
| 122.5° | 723.8  | 724.0  | 724.2  | 724.7  | 725.1  | 725.6  | 726.0  | 726.2  | 726.4  | 726.7  | 726.9  |
| 125°   | 777.5  | 777.9  | 777.7  | 777.2  | 776.8  | 776.3  | 775.9  | 776.6  | 777.2  | 777.9  | 778.6  |
| 127.5° | 824.8  | 824.9  | 825.4  | 826.5  | 827.6  | 828.7  | 829.8  | 829.6  | 829.4  | 829.2  | 829.0  |
| 130°   | 872.8  | 872.9  | 873.2  | 873.9  | 874.6  | 875.2  | 875.9  | 876.1  | 876.3  | 876.6  | 876.8  |
| 132.5° | 917.8  | 918.0  | 918.4  | 919.3  | 920.2  | 921.0  | 921.9  | 922.1  | 922.3  | 922.6  | 922.8  |
| 135°   | 959.3  | 959.2  | 959.6  | 960.5  | 961.4  | 962.2  | 963.1  | 963.5  | 963.9  | 964.4  | 964.8  |
| 137.5° | 999.3  | 999.3  | 999.8  | 1000.9 | 1002.0 | 1003.1 | 1004.2 | 1004.6 | 1005.1 | 1005.5 | 1006.0 |
| 140°   | 1039.3 | 1039.5 | 1039.7 | 1040.2 | 1040.6 | 1041.1 | 1041.5 | 1042.1 | 1042.8 | 1043.4 | 1044.1 |
| 142.5° | 1075.3 | 1075.7 | 1075.8 | 1076.0 | 1076.3 | 1076.5 | 1076.7 | 1077.1 | 1077.6 | 1078.0 | 1078.5 |
| 145°   | 1109.7 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.2 | 1110.4 | 1110.7 | 1110.9 |
| 147.5° | 1139.7 | 1140.4 | 1140.3 | 1140.1 | 1139.8 | 1139.6 | 1139.4 | 1139.6 | 1139.8 | 1140.1 | 1140.3 |
| 150°   | 1168.4 | 1168.8 | 1168.7 | 1168.5 | 1168.2 | 1168.0 | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1167.8 |
| 152.5° | 1193.0 | 1193.3 | 1193.1 | 1192.7 | 1192.2 | 1191.8 | 1191.4 | 1191.8 | 1192.2 | 1192.7 | 1193.1 |
| 155°   | 1214.8 | 1214.9 | 1214.6 | 1213.9 | 1213.2 | 1212.6 | 1211.9 | 1212.8 | 1213.6 | 1214.5 | 1215.4 |
| 157.5° | 1234.5 | 1234.5 | 1234.1 | 1233.2 | 1232.3 | 1231.4 | 1230.5 | 1231.6 | 1232.7 | 1233.8 | 1234.9 |
| 160°   | 1249.5 | 1249.2 | 1249.1 | 1248.9 | 1248.6 | 1248.4 | 1248.2 | 1249.5 | 1250.8 | 1252.1 | 1253.4 |
| 162.5° | 1264.3 | 1263.9 | 1263.8 | 1263.6 | 1263.3 | 1263.1 | 1262.9 | 1264.2 | 1265.5 | 1266.8 | 1268.1 |
| 165°   | 1276.1 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1277.3 | 1279.1 | 1280.8 | 1282.5 |
| 167.5° | 1286.9 | 1286.4 | 1286.3 | 1286.1 | 1285.8 | 1285.6 | 1285.4 | 1287.4 | 1289.3 | 1291.3 | 1293.2 |
| 170°   | 1294.9 | 1294.2 | 1294.3 | 1294.5 | 1294.8 | 1295.0 | 1295.2 | 1296.9 | 1298.7 | 1300.4 | 1302.1 |
| 172.5° | 1300.8 | 1300.1 | 1300.2 | 1300.4 | 1300.7 | 1300.9 | 1301.1 | 1302.8 | 1304.6 | 1306.3 | 1308.0 |
| 175°   | 1304.7 | 1304.0 | 1304.1 | 1304.3 | 1304.6 | 1304.8 | 1305.0 | 1307.0 | 1308.9 | 1310.9 | 1312.8 |
| 177.5° | 1306.8 | 1306.0 | 1306.2 | 1306.6 | 1307.1 | 1307.5 | 1307.9 | 1309.7 | 1311.4 | 1313.2 | 1314.9 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1598.1 | 1603.5 | 1596.7 | 1600.8 | 1591.3 | 1589.9 | 1591.3 | 1591.3 | 1592.6 | 1594.0 | 1595.4 |
| 5°     | 1508.2 | 1506.8 | 1498.6 | 1493.2 | 1489.1 | 1493.2 | 1495.9 | 1498.6 | 1495.9 | 1498.6 | 1500.0 |
| 7.5°   | 1423.7 | 1419.6 | 1415.5 | 1406.0 | 1408.7 | 1406.0 | 1414.2 | 1410.1 | 1410.1 | 1416.9 | 1422.3 |
| 10°    | 1348.8 | 1340.6 | 1337.9 | 1327.0 | 1318.8 | 1317.4 | 1327.0 | 1331.1 | 1335.2 | 1337.9 | 1348.8 |
| 12.5°  | 1252.0 | 1239.8 | 1230.3 | 1234.3 | 1211.2 | 1220.7 | 1223.4 | 1218.0 | 1234.3 | 1253.4 | 1242.5 |
| 15°    | 1148.5 | 1149.9 | 1130.8 | 1124.0 | 1104.9 | 1110.4 | 1111.7 | 1125.3 | 1139.0 | 1137.6 | 1154.0 |
| 17.5°  | 1072.2 | 1064.0 | 1047.7 | 1046.3 | 1038.2 | 1042.2 | 1040.9 | 1051.8 | 1047.7 | 1054.5 | 1068.1 |
| 20°    | 1001.4 | 995.9  | 982.3  | 976.8  | 979.6  | 976.8  | 978.2  | 979.6  | 983.7  | 998.6  | 995.9  |
| 22.5°  | 945.5  | 938.7  | 938.7  | 931.9  | 923.7  | 921.0  | 927.8  | 931.9  | 937.3  | 940.1  | 946.9  |
| 25°    | 896.5  | 891.0  | 884.2  | 880.1  | 873.3  | 874.7  | 878.8  | 884.2  | 888.3  | 893.7  | 899.2  |
| 27.5°  | 846.1  | 846.1  | 839.2  | 837.9  | 835.2  | 833.8  | 839.2  | 842.0  | 842.0  | 846.1  | 851.5  |
| 30°    | 806.5  | 806.5  | 799.7  | 798.4  | 797.0  | 797.0  | 801.1  | 802.5  | 803.8  | 807.9  | 810.6  |
| 32.5°  | 768.4  | 767.0  | 764.3  | 765.7  | 764.3  | 765.7  | 765.7  | 767.0  | 769.8  | 771.1  | 776.6  |
| 35°    | 733.0  | 734.3  | 731.6  | 731.6  | 730.2  | 731.6  | 734.3  | 735.7  | 737.1  | 739.8  | 739.8  |
| 37.5°  | 698.9  | 701.6  | 700.3  | 704.4  | 704.4  | 704.4  | 704.4  | 707.1  | 707.1  | 707.1  | 705.7  |
| 40°    | 668.9  | 668.9  | 667.6  | 670.3  | 673.0  | 673.0  | 674.4  | 674.4  | 675.8  | 675.8  | 674.4  |
| 42.5°  | 634.9  | 637.6  | 641.7  | 643.1  | 645.8  | 644.4  | 648.5  | 647.1  | 648.5  | 645.8  | 643.1  |
| 45°    | 603.5  | 603.5  | 609.0  | 614.4  | 615.8  | 615.8  | 615.8  | 618.5  | 615.8  | 611.7  | 610.4  |
| 47.5°  | 569.5  | 572.2  | 574.9  | 581.7  | 583.1  | 583.1  | 583.1  | 583.1  | 580.4  | 580.4  | 580.4  |
| 50°    | 535.4  | 536.8  | 538.1  | 540.9  | 545.0  | 543.6  | 543.6  | 543.6  | 549.0  | 543.6  | 545.0  |
| 52.5°  | 494.6  | 495.9  | 497.3  | 502.7  | 501.4  | 501.4  | 502.7  | 502.7  | 506.8  | 505.5  | 502.7  |
| 55°    | 453.7  | 453.7  | 456.4  | 456.4  | 456.4  | 459.1  | 460.5  | 463.2  | 461.9  | 463.2  | 464.6  |
| 57.5°  | 412.8  | 410.1  | 408.7  | 408.7  | 412.8  | 411.4  | 412.8  | 412.8  | 418.3  | 421.0  | 422.3  |
| 60°    | 365.1  | 365.1  | 363.8  | 355.6  | 355.6  | 354.2  | 358.3  | 361.0  | 363.8  | 376.0  | 374.7  |
| 62.5°  | 316.1  | 310.6  | 305.2  | 306.5  | 298.4  | 302.5  | 299.7  | 302.5  | 310.6  | 320.2  | 321.5  |
| 65°    | 267.0  | 262.9  | 257.5  | 256.1  | 253.4  | 257.5  | 256.1  | 257.5  | 261.6  | 267.0  | 273.8  |
| 67.5°  | 223.4  | 222.1  | 219.3  | 218.0  | 218.0  | 218.0  | 220.7  | 220.7  | 222.1  | 226.2  | 230.2  |
| 70°    | 190.7  | 189.4  | 190.7  | 188.0  | 189.4  | 188.0  | 189.4  | 190.7  | 192.1  | 193.5  | 197.5  |
| 72.5°  | 160.8  | 160.8  | 160.8  | 158.0  | 160.8  | 159.4  | 159.4  | 160.8  | 162.1  | 163.5  | 166.2  |
| 75°    | 128.1  | 125.3  | 122.6  | 119.9  | 118.5  | 121.3  | 122.6  | 121.3  | 125.3  | 130.8  | 130.8  |
| 77.5°  | 96.7   | 95.4   | 95.4   | 95.4   | 96.7   | 95.4   | 98.1   | 96.7   | 98.1   | 98.1   | 100.8  |
| 80°    | 74.9   | 73.6   | 74.9   | 74.9   | 73.6   | 76.3   | 74.9   | 74.9   | 76.3   | 77.7   | 76.3   |
| 82.5°  | 54.5   | 55.9   | 54.5   | 54.5   | 54.5   | 57.2   | 54.5   | 54.5   | 54.5   | 55.9   | 55.9   |
| 85°    | 34.1   | 34.1   | 34.1   | 34.1   | 35.4   | 34.1   | 35.4   | 34.1   | 36.8   | 35.4   | 35.4   |
| 87.5°  | 12.3   | 13.6   | 15.0   | 15.0   | 15.0   | 15.0   | 13.6   | 15.0   | 16.3   | 15.0   | 16.3   |
| 90°    | 27.4   | 27.6   | 28.1   | 28.5   | 29.0   | 29.4   | 29.0   | 28.5   | 28.1   | 27.6   | 27.4   |
| 92.5°  | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   |
| 95°    | 27.4   | 27.5   | 27.7   | 28.0   | 28.2   | 28.4   | 28.2   | 28.0   | 27.7   | 27.5   | 27.4   |
| 97.5°  | 26.5   | 26.6   | 26.8   | 27.0   | 27.2   | 27.4   | 27.2   | 27.0   | 26.8   | 26.6   | 26.5   |
| 100°   | 26.5   | 26.6   | 26.8   | 27.0   | 27.2   | 27.4   | 27.2   | 27.0   | 26.8   | 26.6   | 26.5   |
| 102.5° | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   | 28.4   |
| 105°   | 314.5  | 310.6  | 302.7  | 294.9  | 287.0  | 279.2  | 287.0  | 294.9  | 302.7  | 310.6  | 314.5  |
| 107.5° | 373.3  | 373.7  | 374.6  | 375.5  | 376.3  | 377.2  | 376.3  | 375.5  | 374.6  | 373.7  | 373.3  |
| 110°   | 434.0  | 434.3  | 435.0  | 435.7  | 436.3  | 437.0  | 436.3  | 435.7  | 435.0  | 434.3  | 434.0  |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.8  | 493.2  | 494.1  | 495.0  | 495.8  | 496.7  | 495.8  | 495.0  | 494.1  | 493.2  | 492.8  |
| 115°   | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  | 554.5  |
| 117.5° | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  | 614.3  |
| 120°   | 672.1  | 671.9  | 671.4  | 671.0  | 670.5  | 670.1  | 670.5  | 671.0  | 671.4  | 671.9  | 672.1  |
| 122.5° | 727.0  | 726.8  | 726.3  | 725.9  | 725.4  | 725.0  | 725.4  | 725.9  | 726.3  | 726.8  | 727.0  |
| 125°   | 778.9  | 779.0  | 779.2  | 779.5  | 779.7  | 779.9  | 779.7  | 779.5  | 779.2  | 779.0  | 778.9  |
| 127.5° | 828.9  | 828.8  | 828.6  | 828.3  | 828.1  | 827.9  | 828.1  | 828.3  | 828.6  | 828.8  | 828.9  |
| 130°   | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  | 876.9  |
| 132.5° | 922.9  | 922.8  | 922.6  | 922.3  | 922.1  | 921.9  | 922.1  | 922.3  | 922.6  | 922.8  | 922.9  |
| 135°   | 965.0  | 965.2  | 965.7  | 966.1  | 966.6  | 967.0  | 966.6  | 966.1  | 965.7  | 965.2  | 965.0  |
| 137.5° | 1006.2 | 1006.1 | 1005.9 | 1005.6 | 1005.4 | 1005.2 | 1005.4 | 1005.6 | 1005.9 | 1006.1 | 1006.2 |
| 140°   | 1044.4 | 1044.5 | 1044.7 | 1045.0 | 1045.2 | 1045.4 | 1045.2 | 1045.0 | 1044.7 | 1044.5 | 1044.4 |
| 142.5° | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 | 1078.7 |
| 145°   | 1111.0 | 1111.2 | 1111.7 | 1112.1 | 1112.6 | 1113.0 | 1112.6 | 1112.1 | 1111.7 | 1111.2 | 1111.0 |
| 147.5° | 1140.4 | 1140.5 | 1140.7 | 1141.0 | 1141.2 | 1141.4 | 1141.2 | 1141.0 | 1140.7 | 1140.5 | 1140.4 |
| 150°   | 1167.8 | 1167.9 | 1168.1 | 1168.4 | 1168.6 | 1168.8 | 1168.6 | 1168.4 | 1168.1 | 1167.9 | 1167.8 |
| 152.5° | 1193.3 | 1193.2 | 1193.0 | 1192.7 | 1192.5 | 1192.3 | 1192.5 | 1192.7 | 1193.0 | 1193.2 | 1193.3 |
| 155°   | 1215.8 | 1215.5 | 1214.8 | 1214.2 | 1213.5 | 1212.9 | 1213.5 | 1214.2 | 1214.8 | 1215.5 | 1215.8 |
| 157.5° | 1235.4 | 1234.9 | 1233.8 | 1232.7 | 1231.6 | 1230.5 | 1231.6 | 1232.7 | 1233.8 | 1234.9 | 1235.4 |
| 160°   | 1254.1 | 1253.4 | 1252.1 | 1250.8 | 1249.5 | 1248.2 | 1249.5 | 1250.8 | 1252.1 | 1253.4 | 1254.1 |
| 162.5° | 1268.8 | 1268.0 | 1266.5 | 1265.0 | 1263.4 | 1261.9 | 1263.4 | 1265.0 | 1266.5 | 1268.0 | 1268.8 |
| 165°   | 1283.4 | 1282.4 | 1280.5 | 1278.5 | 1276.6 | 1274.6 | 1276.6 | 1278.5 | 1280.5 | 1282.4 | 1283.4 |
| 167.5° | 1294.2 | 1293.1 | 1290.9 | 1288.8 | 1286.6 | 1284.4 | 1286.6 | 1288.8 | 1290.9 | 1293.1 | 1294.2 |
| 170°   | 1303.0 | 1301.9 | 1299.7 | 1297.6 | 1295.4 | 1293.2 | 1295.4 | 1297.6 | 1299.7 | 1301.9 | 1303.0 |
| 172.5° | 1308.9 | 1307.7 | 1305.3 | 1302.9 | 1300.5 | 1298.1 | 1300.5 | 1302.9 | 1305.3 | 1307.7 | 1308.9 |
| 175°   | 1313.8 | 1312.5 | 1309.9 | 1307.3 | 1304.7 | 1302.1 | 1304.7 | 1307.3 | 1309.9 | 1312.5 | 1313.8 |
| 177.5° | 1315.8 | 1314.5 | 1311.9 | 1309.2 | 1306.6 | 1304.0 | 1306.6 | 1309.2 | 1311.9 | 1314.5 | 1315.8 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1600.8 | 1607.6 | 1604.9 | 1595.4 | 1599.5 | 1607.6 | 1615.8 | 1626.7 | 1633.5 | 1639.0 | 1641.7 |
| 5°     | 1506.8 | 1519.1 | 1516.4 | 1516.4 | 1521.8 | 1535.4 | 1549.1 | 1572.2 | 1580.4 | 1589.9 | 1603.5 |
| 7.5°   | 1423.7 | 1433.2 | 1441.4 | 1444.1 | 1452.3 | 1470.0 | 1487.7 | 1513.6 | 1534.1 | 1545.0 | 1553.1 |
| 10°    | 1350.1 | 1357.0 | 1369.2 | 1376.0 | 1384.2 | 1406.0 | 1431.9 | 1459.1 | 1479.6 | 1498.6 | 1509.5 |
| 12.5°  | 1256.1 | 1283.4 | 1299.7 | 1310.6 | 1321.5 | 1354.2 | 1374.7 | 1404.6 | 1429.2 | 1446.9 | 1463.2 |
| 15°    | 1151.2 | 1183.9 | 1193.5 | 1235.7 | 1262.9 | 1288.8 | 1320.2 | 1355.6 | 1378.8 | 1399.2 | 1421.0 |
| 17.5°  | 1062.7 | 1085.8 | 1096.7 | 1141.7 | 1164.9 | 1205.7 | 1250.7 | 1295.6 | 1331.1 | 1346.1 | 1367.9 |
| 20°    | 1006.8 | 1019.1 | 1040.9 | 1055.9 | 1080.4 | 1128.1 | 1177.1 | 1231.6 | 1284.7 | 1299.7 | 1321.5 |
| 22.5°  | 949.6  | 965.9  | 980.9  | 1001.4 | 1020.4 | 1053.1 | 1102.2 | 1162.1 | 1219.4 | 1246.6 | 1272.5 |
| 25°    | 897.8  | 914.2  | 923.7  | 945.5  | 963.2  | 995.9  | 1030.0 | 1091.3 | 1159.4 | 1182.6 | 1223.4 |
| 27.5°  | 857.0  | 866.5  | 882.8  | 892.4  | 912.8  | 942.8  | 974.1  | 1020.4 | 1087.2 | 1126.7 | 1166.2 |
| 30°    | 816.1  | 822.9  | 836.5  | 850.1  | 865.1  | 885.6  | 921.0  | 965.9  | 1027.3 | 1061.3 | 1100.8 |
| 32.5°  | 775.2  | 786.1  | 794.3  | 803.8  | 820.2  | 844.7  | 869.2  | 912.8  | 961.9  | 1000.0 | 1039.5 |
| 35°    | 741.1  | 745.2  | 756.1  | 767.0  | 777.9  | 799.7  | 825.6  | 867.9  | 911.4  | 941.4  | 976.8  |
| 37.5°  | 704.4  | 711.2  | 719.3  | 723.4  | 741.1  | 754.8  | 782.0  | 814.7  | 866.5  | 885.6  | 921.0  |
| 40°    | 675.8  | 674.4  | 682.6  | 689.4  | 697.6  | 719.3  | 735.7  | 771.1  | 812.0  | 842.0  | 863.8  |
| 42.5°  | 640.3  | 640.3  | 643.1  | 651.2  | 662.1  | 675.8  | 694.8  | 724.8  | 767.0  | 788.8  | 814.7  |
| 45°    | 611.7  | 607.6  | 609.0  | 614.4  | 621.3  | 634.9  | 654.0  | 679.8  | 722.1  | 739.8  | 767.0  |
| 47.5°  | 577.7  | 573.6  | 573.6  | 579.0  | 584.5  | 594.0  | 609.0  | 639.0  | 673.0  | 696.2  | 716.6  |
| 50°    | 539.5  | 540.9  | 539.5  | 543.6  | 546.3  | 555.9  | 572.2  | 596.7  | 628.1  | 647.1  | 670.3  |
| 52.5°  | 504.1  | 501.4  | 500.0  | 502.7  | 508.2  | 515.0  | 532.7  | 554.5  | 584.5  | 603.5  | 624.0  |
| 55°    | 460.5  | 463.2  | 463.2  | 463.2  | 471.4  | 474.1  | 487.7  | 509.5  | 539.5  | 554.5  | 573.6  |
| 57.5°  | 421.0  | 419.6  | 422.3  | 421.0  | 427.8  | 437.3  | 448.2  | 464.6  | 494.6  | 509.5  | 527.3  |
| 60°    | 377.4  | 378.7  | 380.1  | 380.1  | 385.6  | 395.1  | 407.4  | 422.3  | 446.9  | 461.9  | 478.2  |
| 62.5°  | 324.3  | 331.1  | 337.9  | 340.6  | 348.8  | 355.6  | 363.8  | 380.1  | 401.9  | 412.8  | 427.8  |
| 65°    | 273.8  | 283.4  | 292.9  | 299.7  | 305.2  | 312.0  | 322.9  | 337.9  | 355.6  | 366.5  | 381.5  |
| 67.5°  | 230.2  | 237.1  | 249.3  | 256.1  | 267.0  | 275.2  | 282.0  | 294.3  | 316.1  | 320.2  | 332.4  |
| 70°    | 198.9  | 201.6  | 207.1  | 212.5  | 224.8  | 231.6  | 239.8  | 252.0  | 268.4  | 277.9  | 284.7  |
| 72.5°  | 167.6  | 168.9  | 171.7  | 177.1  | 182.6  | 190.7  | 200.3  | 211.2  | 226.2  | 230.2  | 239.8  |
| 75°    | 133.5  | 141.7  | 141.7  | 145.8  | 149.9  | 154.0  | 162.1  | 173.0  | 182.6  | 189.4  | 194.8  |
| 77.5°  | 99.5   | 103.5  | 106.3  | 113.1  | 118.5  | 122.6  | 128.1  | 136.2  | 141.7  | 147.1  | 151.2  |
| 80°    | 77.7   | 79.0   | 80.4   | 80.4   | 83.1   | 88.6   | 94.0   | 99.5   | 106.3  | 109.0  | 113.1  |
| 82.5°  | 57.2   | 57.2   | 57.2   | 59.9   | 61.3   | 62.7   | 62.7   | 65.4   | 72.2   | 74.9   | 79.0   |
| 85°    | 36.8   | 36.8   | 36.8   | 36.8   | 38.1   | 39.5   | 40.9   | 42.2   | 42.2   | 42.2   | 45.0   |
| 87.5°  | 15.0   | 17.7   | 16.3   | 17.7   | 17.7   | 17.7   | 17.7   | 19.1   | 19.1   | 20.4   | 20.4   |
| 90°    | 26.8   | 25.5   | 24.2   | 22.9   | 21.6   | 19.8   | 18.1   | 16.3   | 14.6   | 13.7   | 12.5   |
| 92.5°  | 25.8   | 24.5   | 23.2   | 21.9   | 20.6   | 18.8   | 17.1   | 15.3   | 13.6   | 12.7   | 12.9   |
| 95°    | 26.8   | 25.5   | 24.2   | 22.9   | 21.6   | 21.4   | 21.2   | 20.9   | 20.7   | 20.6   | 24.3   |
| 97.5°  | 26.0   | 24.9   | 23.8   | 22.7   | 21.6   | 44.4   | 67.3   | 90.1   | 113.0  | 124.4  | 122.0  |
| 100°   | 28.3   | 32.0   | 35.7   | 39.4   | 43.1   | 73.1   | 103.2  | 133.2  | 163.3  | 178.3  | 176.3  |
| 102.5° | 52.9   | 101.9  | 150.9  | 199.9  | 248.9  | 246.3  | 243.7  | 241.0  | 238.4  | 237.1  | 235.8  |
| 105°   | 313.5  | 311.6  | 309.6  | 307.7  | 305.7  | 304.6  | 303.5  | 302.4  | 301.3  | 300.8  | 300.1  |
| 107.5° | 372.8  | 371.7  | 370.6  | 369.5  | 368.4  | 366.9  | 365.3  | 363.8  | 362.3  | 361.5  | 361.2  |
| 110°   | 433.8  | 433.4  | 432.9  | 432.5  | 432.1  | 430.8  | 429.5  | 428.2  | 426.9  | 426.2  | 425.9  |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.9  | 493.1  | 493.4  | 493.6  | 493.8  | 493.4  | 492.9  | 492.5  | 492.0  | 491.8  | 491.1  |
| 115°   | 554.3  | 553.9  | 553.4  | 553.0  | 552.6  | 552.8  | 553.0  | 553.2  | 553.4  | 553.5  | 553.2  |
| 117.5° | 614.4  | 614.6  | 614.9  | 615.1  | 615.3  | 614.6  | 614.0  | 613.3  | 612.6  | 612.3  | 611.9  |
| 120°   | 671.9  | 671.4  | 671.0  | 670.5  | 670.1  | 670.3  | 670.5  | 670.8  | 671.0  | 671.1  | 670.7  |
| 122.5° | 726.9  | 726.7  | 726.4  | 726.2  | 726.0  | 725.6  | 725.1  | 724.7  | 724.2  | 724.0  | 723.8  |
| 125°   | 778.6  | 777.9  | 777.2  | 776.6  | 775.9  | 776.3  | 776.8  | 777.2  | 777.7  | 777.9  | 777.5  |
| 127.5° | 829.0  | 829.2  | 829.4  | 829.6  | 829.8  | 828.7  | 827.6  | 826.5  | 825.4  | 824.9  | 824.8  |
| 130°   | 876.8  | 876.6  | 876.3  | 876.1  | 875.9  | 875.2  | 874.6  | 873.9  | 873.2  | 872.9  | 872.8  |
| 132.5° | 922.8  | 922.6  | 922.3  | 922.1  | 921.9  | 921.0  | 920.2  | 919.3  | 918.4  | 918.0  | 917.8  |
| 135°   | 964.8  | 964.4  | 963.9  | 963.5  | 963.1  | 962.2  | 961.4  | 960.5  | 959.6  | 959.2  | 959.3  |
| 137.5° | 1006.0 | 1005.5 | 1005.1 | 1004.6 | 1004.2 | 1003.1 | 1002.0 | 1000.9 | 999.8  | 999.3  | 999.3  |
| 140°   | 1044.1 | 1043.4 | 1042.8 | 1042.1 | 1041.5 | 1041.1 | 1040.6 | 1040.2 | 1039.7 | 1039.5 | 1039.3 |
| 142.5° | 1078.5 | 1078.0 | 1077.6 | 1077.1 | 1076.7 | 1076.5 | 1076.3 | 1076.0 | 1075.8 | 1075.7 | 1075.3 |
| 145°   | 1110.9 | 1110.7 | 1110.4 | 1110.2 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1110.0 | 1109.7 |
| 147.5° | 1140.3 | 1140.1 | 1139.8 | 1139.6 | 1139.4 | 1139.6 | 1139.8 | 1140.1 | 1140.3 | 1140.4 | 1139.7 |
| 150°   | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1167.8 | 1168.0 | 1168.2 | 1168.5 | 1168.7 | 1168.8 | 1168.4 |
| 152.5° | 1193.1 | 1192.7 | 1192.2 | 1191.8 | 1191.4 | 1191.8 | 1192.2 | 1192.7 | 1193.1 | 1193.3 | 1193.0 |
| 155°   | 1215.4 | 1214.5 | 1213.6 | 1212.8 | 1211.9 | 1212.6 | 1213.2 | 1213.9 | 1214.6 | 1214.9 | 1214.8 |
| 157.5° | 1234.9 | 1233.8 | 1232.7 | 1231.6 | 1230.5 | 1231.4 | 1232.3 | 1233.2 | 1234.1 | 1234.5 | 1234.5 |
| 160°   | 1253.4 | 1252.1 | 1250.8 | 1249.5 | 1248.2 | 1248.4 | 1248.6 | 1248.9 | 1249.1 | 1249.2 | 1249.5 |
| 162.5° | 1268.1 | 1266.8 | 1265.5 | 1264.2 | 1262.9 | 1263.1 | 1263.3 | 1263.6 | 1263.8 | 1263.9 | 1264.3 |
| 165°   | 1282.5 | 1280.8 | 1279.1 | 1277.3 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1275.6 | 1276.1 |
| 167.5° | 1293.2 | 1291.3 | 1289.3 | 1287.4 | 1285.4 | 1285.6 | 1285.8 | 1286.1 | 1286.3 | 1286.4 | 1286.9 |
| 170°   | 1302.1 | 1300.4 | 1298.7 | 1296.9 | 1295.2 | 1295.0 | 1294.8 | 1294.5 | 1294.3 | 1294.2 | 1294.9 |
| 172.5° | 1308.0 | 1306.3 | 1304.6 | 1302.8 | 1301.1 | 1300.9 | 1300.7 | 1300.4 | 1300.2 | 1300.1 | 1300.8 |
| 175°   | 1312.8 | 1310.9 | 1308.9 | 1307.0 | 1305.0 | 1304.8 | 1304.6 | 1304.3 | 1304.1 | 1304.0 | 1304.7 |
| 177.5° | 1314.9 | 1313.2 | 1311.4 | 1309.7 | 1307.9 | 1307.5 | 1307.1 | 1306.6 | 1306.2 | 1306.0 | 1306.8 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1690.7 | 1690.7 | 1690.7 | 1690.7 |
| 2.5°   | 1652.6 | 1660.8 | 1674.4 | 1693.5 |
| 5°     | 1614.4 | 1637.6 | 1659.4 | 1688.0 |
| 7.5°   | 1580.4 | 1607.6 | 1637.6 | 1678.5 |
| 10°    | 1540.9 | 1574.9 | 1613.1 | 1663.5 |
| 12.5°  | 1494.6 | 1542.2 | 1585.8 | 1640.3 |
| 15°    | 1460.5 | 1495.9 | 1551.8 | 1615.8 |
| 17.5°  | 1412.8 | 1460.5 | 1516.4 | 1588.6 |
| 20°    | 1367.9 | 1418.3 | 1480.9 | 1555.9 |
| 22.5°  | 1320.2 | 1377.4 | 1440.1 | 1520.4 |
| 25°    | 1271.1 | 1332.4 | 1395.1 | 1480.9 |
| 27.5°  | 1226.2 | 1282.0 | 1352.9 | 1440.1 |
| 30°    | 1171.7 | 1235.7 | 1303.8 | 1395.1 |
| 32.5°  | 1118.5 | 1185.3 | 1254.8 | 1346.1 |
| 35°    | 1061.3 | 1128.1 | 1204.4 | 1291.6 |
| 37.5°  | 1005.5 | 1079.0 | 1148.5 | 1233.0 |
| 40°    | 944.1  | 1020.4 | 1092.6 | 1178.5 |
| 42.5°  | 884.2  | 963.2  | 1035.4 | 1109.0 |
| 45°    | 828.3  | 906.0  | 971.4  | 1040.9 |
| 47.5°  | 775.2  | 844.7  | 911.4  | 974.1  |
| 50°    | 723.4  | 782.0  | 843.3  | 895.1  |
| 52.5°  | 668.9  | 724.8  | 773.8  | 820.2  |
| 55°    | 619.9  | 663.5  | 707.1  | 749.3  |
| 57.5°  | 561.3  | 604.9  | 643.1  | 675.8  |
| 60°    | 512.3  | 539.5  | 576.3  | 610.4  |
| 62.5°  | 456.4  | 487.7  | 516.4  | 538.1  |
| 65°    | 401.9  | 429.2  | 451.0  | 470.0  |
| 67.5°  | 355.6  | 371.9  | 388.3  | 408.7  |
| 70°    | 299.7  | 313.4  | 332.4  | 347.4  |
| 72.5°  | 252.0  | 262.9  | 272.5  | 290.2  |
| 75°    | 204.4  | 213.9  | 219.3  | 235.7  |
| 77.5°  | 158.0  | 167.6  | 171.7  | 181.2  |
| 80°    | 121.3  | 122.6  | 128.1  | 136.2  |
| 82.5°  | 83.1   | 85.8   | 87.2   | 94.0   |
| 85°    | 47.7   | 54.5   | 53.1   | 55.9   |
| 87.5°  | 20.4   | 21.8   | 24.5   | 27.2   |
| 90°    | 10.1   | 7.7    | 5.3    | 2.9    |
| 92.5°  | 13.4   | 13.8   | 14.3   | 14.7   |
| 95°    | 31.7   | 39.1   | 46.5   | 53.9   |
| 97.5°  | 117.2  | 112.5  | 107.7  | 102.9  |
| 100°   | 172.4  | 168.5  | 164.6  | 160.7  |
| 102.5° | 233.2  | 230.5  | 227.9  | 225.3  |
| 105°   | 298.8  | 297.5  | 296.2  | 294.9  |
| 107.5° | 360.5  | 359.9  | 359.2  | 358.6  |
| 110°   | 425.2  | 424.5  | 423.9  | 423.2  |

TEST NUMBER: P1013204

CATALOG NUMBER: S124RDIP-B1020D1035UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 489.8  | 488.5  | 487.2  | 485.9  |
| 115°   | 552.5  | 551.9  | 551.2  | 550.6  |
| 117.5° | 611.0  | 610.1  | 609.3  | 608.4  |
| 120°   | 669.8  | 668.9  | 668.1  | 667.2  |
| 122.5° | 723.4  | 722.9  | 722.5  | 722.1  |
| 125°   | 776.6  | 775.7  | 774.9  | 774.0  |
| 127.5° | 824.6  | 824.4  | 824.2  | 824.0  |
| 130°   | 872.6  | 872.4  | 872.2  | 872.0  |
| 132.5° | 917.3  | 916.9  | 916.4  | 916.0  |
| 135°   | 959.5  | 959.7  | 959.9  | 960.1  |
| 137.5° | 999.3  | 999.3  | 999.3  | 999.3  |
| 140°   | 1038.8 | 1038.4 | 1037.9 | 1037.5 |
| 142.5° | 1074.4 | 1073.5 | 1072.7 | 1071.8 |
| 145°   | 1109.0 | 1108.4 | 1107.7 | 1107.1 |
| 147.5° | 1138.4 | 1137.1 | 1135.8 | 1134.5 |
| 150°   | 1167.5 | 1166.6 | 1165.8 | 1164.9 |
| 152.5° | 1192.3 | 1191.7 | 1191.0 | 1190.4 |
| 155°   | 1214.6 | 1214.3 | 1214.1 | 1213.9 |
| 157.5° | 1234.5 | 1234.5 | 1234.5 | 1234.5 |
| 160°   | 1250.2 | 1250.8 | 1251.5 | 1252.1 |
| 162.5° | 1265.2 | 1266.1 | 1266.9 | 1267.8 |
| 165°   | 1277.2 | 1278.3 | 1279.4 | 1280.5 |
| 167.5° | 1288.0 | 1289.1 | 1290.2 | 1291.3 |
| 170°   | 1296.2 | 1297.5 | 1298.8 | 1300.1 |
| 172.5° | 1302.1 | 1303.4 | 1304.7 | 1306.0 |
| 175°   | 1306.0 | 1307.3 | 1308.6 | 1309.9 |
| 177.5° | 1308.3 | 1309.8 | 1311.3 | 1312.8 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

(END OF REPORT)