

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: P1013216

Luminaire Tested: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013216  
REPORT IS A COMBINATION OF REPORTS P998867 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K  
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

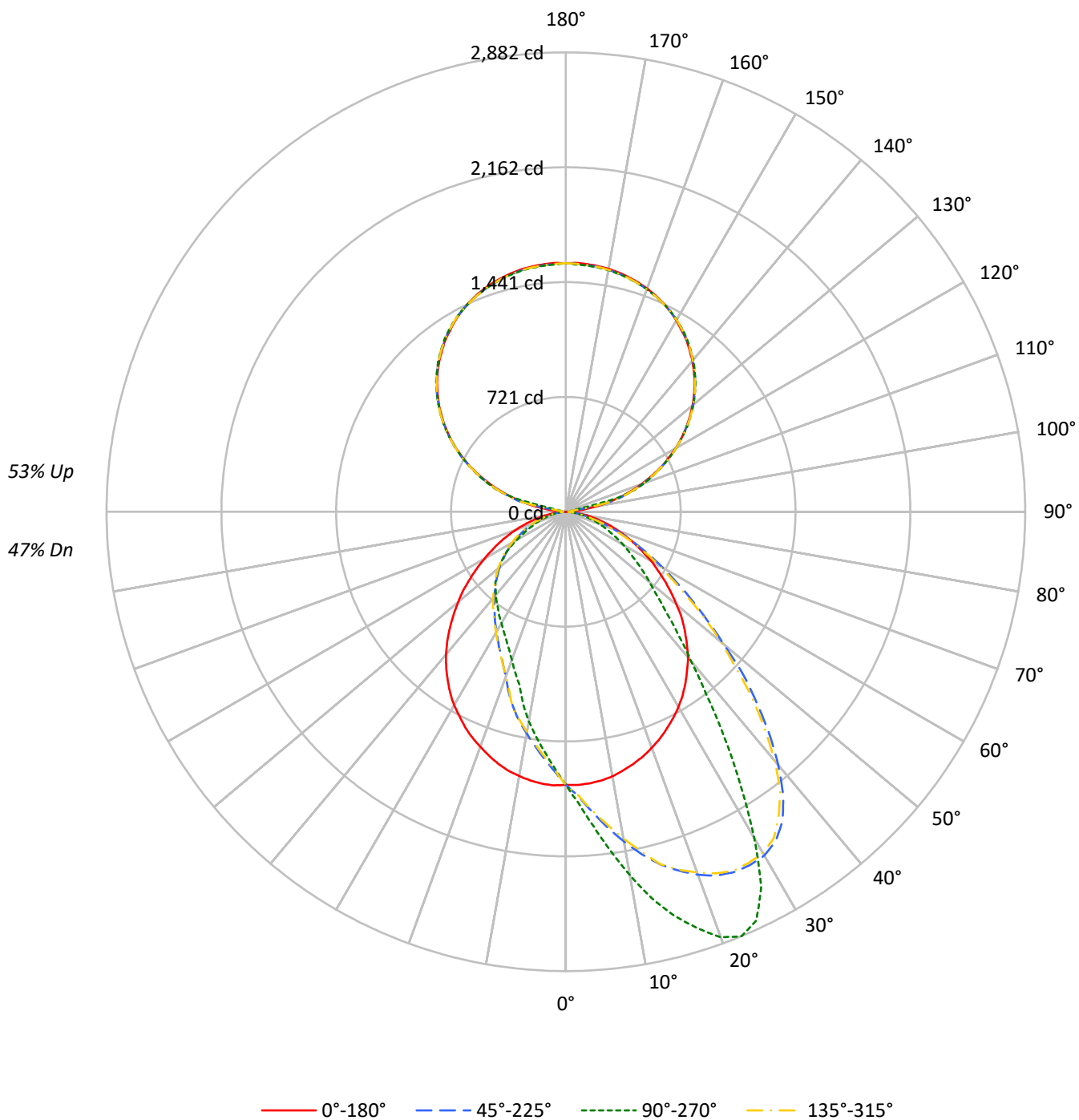
Lumens per Lamp: N/A  
Luminaire Lumens: 9158.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 81.8  
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: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 |
| 1   | 98  | 94  | 90  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 40 |
| 3   | 82  | 73  | 65  | 60  | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 |
| 4   | 75  | 64  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 42 | 39 | 36 | 35 | 32 | 30 |
| 5   | 69  | 58  | 50  | 44  | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 38 | 34 | 31 | 31 | 28 | 26 |
| 6   | 63  | 52  | 44  | 38  | 58 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 30 | 27 | 28 | 25 | 23 |
| 7   | 59  | 47  | 39  | 34  | 54 | 44 | 37 | 32 | 37 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 21 |
| 8   | 55  | 43  | 35  | 30  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 |
| 9   | 51  | 39  | 32  | 27  | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 22 | 19 | 17 |
| 10  | 47  | 36  | 29  | 24  | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 15 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 13968 | 13968 | 13968 | 13968 |
| 5°  | 13968 | 15783 | 13991 | 12063 |
| 10° | 13894 | 18194 | 13882 | 10491 |
| 15° | 13728 | 20477 | 13728 | 8783  |
| 20° | 13555 | 22202 | 13484 | 7734  |
| 25° | 13343 | 22295 | 13282 | 6986  |
| 30° | 13119 | 18959 | 13016 | 6470  |
| 35° | 12802 | 14305 | 12639 | 6087  |
| 40° | 12448 | 10367 | 12204 | 5786  |
| 45° | 11864 | 7879  | 11569 | 5522  |
| 50° | 11171 | 6368  | 10865 | 5133  |
| 55° | 10420 | 5273  | 10080 | 4615  |
| 60° | 9667  | 4458  | 9234  | 3839  |
| 65° | 8721  | 3632  | 8442  | 3051  |
| 70° | 7853  | 2946  | 7483  | 2478  |
| 75° | 6882  | 2122  | 6403  | 1816  |
| 80° | 5676  | 1406  | 5166  | 1335  |
| 85° | 4119  | 723   | 3413  | 723   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 17486 cd/sqm

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.9  | 1.8       |
| 10°-20°   | 500.9  | 5.5       |
| 20°-30°   | 784.6  | 8.6       |
| 30°-40°   | 871.3  | 9.5       |
| 40°-50°   | 772.0  | 8.4       |
| 50°-60°   | 601.7  | 6.6       |
| 60°-70°   | 393.6  | 4.3       |
| 70°-80°   | 193.1  | 2.1       |
| 80°-90°   | 50.2   | 0.5       |
| 90°-100°  | 51.8   | 0.6       |
| 100°-110° | 340.9  | 3.7       |
| 110°-120° | 650.9  | 7.1       |
| 120°-130° | 826.3  | 9.0       |
| 130°-140° | 883.9  | 9.7       |
| 140°-150° | 826.5  | 9.0       |
| 150°-160° | 666.5  | 7.3       |
| 160°-170° | 429.9  | 4.7       |
| 170°-180° | 148.2  | 1.6       |
| 0°-30°    | 1451.3 | 15.8      |
| 0°-40°    | 2322.6 | 25.4      |
| 0°-60°    | 3696.3 | 40.4      |
| 0°-90°    | 4333.2 | 47.3      |
| 90°-120°  | 1043.5 | 11.4      |
| 90°-150°  | 3580.2 | 39.1      |
| 90°-180°  | 4825.0 | 52.7      |
| 0°-180°   | 9158.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1713 | 1713 | 1713 | 1713 | 1713 |      |
| 5°   | 1710 | 1979 | 1713 | 1513 | 1710 | 162  |
| 15°  | 1637 | 2622 | 1637 | 1125 | 1637 | 462  |
| 25°  | 1500 | 2828 | 1493 | 886  | 1500 | 691  |
| 35°  | 1308 | 1742 | 1292 | 741  | 1308 | 818  |
| 45°  | 1054 | 890  | 1028 | 624  | 1054 | 813  |
| 55°  | 759  | 531  | 734  | 465  | 759  | 679  |
| 65°  | 476  | 311  | 461  | 261  | 476  | 475  |
| 75°  | 239  | 144  | 222  | 123  | 239  | 253  |
| 85°  | 57   | 34   | 47   | 34   | 57   | 64   |
| 90°  | 4    | 35   | 4    | 35   | 4    | 7    |
| 95°  | 64   | 34   | 64   | 34   | 64   | 79   |
| 105° | 351  | 332  | 351  | 332  | 351  | 367  |
| 115° | 655  | 660  | 655  | 660  | 655  | 645  |
| 125° | 921  | 928  | 921  | 928  | 921  | 823  |
| 135° | 1143 | 1151 | 1143 | 1151 | 1143 | 881  |
| 145° | 1318 | 1325 | 1318 | 1325 | 1318 | 823  |
| 155° | 1445 | 1444 | 1445 | 1444 | 1445 | 666  |
| 165° | 1524 | 1517 | 1524 | 1517 | 1524 | 431  |
| 175° | 1559 | 1550 | 1559 | 1550 | 1559 | 148  |
| 180° | 1559 | 1559 | 1559 | 1559 | 1559 |      |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1715.7 | 1730.8 | 1739.1 | 1746.0 | 1759.8 | 1765.3 | 1776.4 | 1779.1 | 1790.2 | 1788.8 | 1784.7 |
| 5°     | 1710.1 | 1736.4 | 1755.7 | 1776.4 | 1801.2 | 1815.0 | 1830.2 | 1852.3 | 1863.3 | 1878.5 | 1888.2 |
| 7.5°   | 1700.5 | 1736.4 | 1768.1 | 1799.9 | 1839.9 | 1862.0 | 1881.3 | 1915.8 | 1944.8 | 1969.6 | 1997.2 |
| 10°    | 1685.3 | 1730.8 | 1777.8 | 1820.6 | 1875.8 | 1902.0 | 1931.0 | 1982.0 | 2022.1 | 2056.6 | 2100.7 |
| 12.5°  | 1661.8 | 1725.3 | 1777.8 | 1835.7 | 1906.1 | 1942.0 | 1980.7 | 2041.4 | 2088.3 | 2144.9 | 2200.1 |
| 15°    | 1637.0 | 1707.4 | 1776.4 | 1852.3 | 1932.4 | 1973.8 | 2012.4 | 2093.8 | 2165.6 | 2230.5 | 2291.2 |
| 17.5°  | 1609.4 | 1686.7 | 1762.6 | 1846.8 | 1943.4 | 1994.5 | 2040.0 | 2138.0 | 2216.7 | 2300.9 | 2361.6 |
| 20°    | 1576.3 | 1660.4 | 1747.4 | 1841.3 | 1950.3 | 2006.9 | 2058.0 | 2169.8 | 2256.7 | 2347.8 | 2423.7 |
| 22.5°  | 1540.4 | 1631.5 | 1726.7 | 1828.8 | 1942.0 | 2004.1 | 2063.5 | 2183.6 | 2284.3 | 2368.5 | 2470.7 |
| 25°    | 1500.3 | 1597.0 | 1695.0 | 1802.6 | 1929.6 | 1997.2 | 2058.0 | 2176.7 | 2284.3 | 2394.7 | 2494.1 |
| 27.5°  | 1458.9 | 1558.3 | 1660.4 | 1773.6 | 1903.4 | 1969.6 | 2038.6 | 2153.2 | 2278.8 | 2398.9 | 2499.6 |
| 30°    | 1413.4 | 1510.0 | 1617.7 | 1725.3 | 1863.3 | 1929.6 | 2000.0 | 2124.2 | 2260.9 | 2380.9 | 2490.0 |
| 32.5°  | 1363.7 | 1463.1 | 1565.2 | 1677.0 | 1812.3 | 1884.0 | 1948.9 | 2089.7 | 2229.1 | 2347.8 | 2450.0 |
| 35°    | 1308.5 | 1402.3 | 1499.0 | 1613.5 | 1747.4 | 1812.3 | 1889.6 | 2035.9 | 2176.7 | 2302.3 | 2368.5 |
| 37.5°  | 1249.1 | 1338.8 | 1428.6 | 1541.7 | 1670.1 | 1748.8 | 1824.7 | 1972.4 | 2121.5 | 2205.6 | 2240.2 |
| 40°    | 1193.9 | 1272.6 | 1351.3 | 1460.3 | 1590.1 | 1671.5 | 1748.8 | 1902.0 | 2033.1 | 2098.0 | 2071.8 |
| 42.5°  | 1123.5 | 1205.0 | 1275.4 | 1376.1 | 1507.2 | 1583.2 | 1661.8 | 1820.6 | 1926.8 | 1953.1 | 1888.2 |
| 45°    | 1054.5 | 1122.1 | 1189.8 | 1287.8 | 1425.8 | 1490.7 | 1574.9 | 1722.6 | 1810.9 | 1787.4 | 1692.2 |
| 47.5°  | 986.9  | 1042.1 | 1105.6 | 1200.8 | 1325.0 | 1402.3 | 1481.0 | 1609.4 | 1671.5 | 1638.4 | 1505.9 |
| 50°    | 906.8  | 962.0  | 1028.3 | 1111.1 | 1231.2 | 1305.7 | 1367.8 | 1486.5 | 1533.5 | 1452.0 | 1291.9 |
| 52.5°  | 830.9  | 879.2  | 935.8  | 1013.1 | 1127.7 | 1195.3 | 1262.9 | 1365.1 | 1380.3 | 1286.4 | 1118.0 |
| 55°    | 759.1  | 797.8  | 857.1  | 919.2  | 1024.1 | 1095.9 | 1142.9 | 1229.8 | 1225.7 | 1108.3 | 963.4  |
| 57.5°  | 684.6  | 720.5  | 760.5  | 825.4  | 924.8  | 978.6  | 1029.7 | 1105.6 | 1065.6 | 966.2  | 822.6  |
| 60°    | 618.4  | 639.1  | 679.1  | 741.2  | 825.4  | 872.3  | 912.3  | 953.8  | 919.2  | 811.6  | 701.2  |
| 62.5°  | 545.2  | 568.7  | 597.7  | 647.3  | 721.9  | 766.0  | 795.0  | 813.0  | 777.1  | 694.3  | 593.5  |
| 65°    | 476.2  | 496.9  | 527.3  | 571.4  | 628.0  | 661.1  | 676.3  | 688.7  | 669.4  | 575.6  | 495.5  |
| 67.5°  | 414.1  | 427.9  | 455.5  | 484.5  | 545.2  | 553.5  | 574.2  | 579.7  | 541.1  | 469.3  | 405.8  |
| 70°    | 352.0  | 365.8  | 378.2  | 412.7  | 440.3  | 455.5  | 459.6  | 459.6  | 421.0  | 374.0  | 321.6  |
| 72.5°  | 294.0  | 302.3  | 314.7  | 338.2  | 353.3  | 364.4  | 369.9  | 363.0  | 327.1  | 288.5  | 249.8  |
| 75°    | 238.8  | 242.9  | 254.0  | 269.1  | 281.6  | 277.4  | 276.1  | 267.8  | 241.5  | 213.9  | 191.9  |
| 77.5°  | 183.6  | 186.3  | 198.8  | 202.9  | 202.9  | 207.0  | 201.5  | 193.2  | 171.2  | 150.4  | 140.8  |
| 80°    | 138.0  | 142.2  | 143.5  | 146.3  | 143.5  | 143.5  | 139.4  | 125.6  | 114.6  | 104.9  | 98.0   |
| 82.5°  | 95.2   | 98.0   | 99.4   | 95.2   | 98.0   | 93.9   | 87.0   | 77.3   | 70.4   | 69.0   | 66.3   |
| 85°    | 56.6   | 58.0   | 56.6   | 56.6   | 52.4   | 51.1   | 45.5   | 44.2   | 41.4   | 41.4   | 40.0   |
| 87.5°  | 27.6   | 26.2   | 23.5   | 20.7   | 20.7   | 19.3   | 20.7   | 17.9   | 20.7   | 19.3   | 17.9   |
| 90°    | 3.5    | 6.3    | 9.2    | 12.0   | 14.9   | 16.3   | 17.3   | 19.4   | 21.5   | 23.6   | 25.7   |
| 92.5°  | 17.5   | 17.0   | 16.5   | 16.0   | 15.5   | 15.2   | 16.2   | 18.3   | 20.4   | 22.4   | 24.5   |
| 95°    | 64.1   | 55.3   | 46.5   | 37.7   | 28.9   | 24.5   | 24.6   | 24.9   | 25.2   | 25.4   | 25.7   |
| 97.5°  | 122.5  | 128.2  | 133.9  | 139.6  | 145.3  | 148.1  | 134.5  | 107.3  | 80.1   | 52.9   | 25.7   |
| 100°   | 191.3  | 195.9  | 200.6  | 205.2  | 209.9  | 212.2  | 194.3  | 158.6  | 122.8  | 87.1   | 51.3   |
| 102.5° | 268.2  | 271.3  | 274.4  | 277.5  | 280.6  | 282.2  | 283.8  | 286.9  | 290.0  | 293.1  | 296.2  |
| 105°   | 351.0  | 352.6  | 354.1  | 355.7  | 357.2  | 358.0  | 358.7  | 360.0  | 361.3  | 362.6  | 363.9  |
| 107.5° | 426.8  | 427.6  | 428.4  | 429.1  | 429.9  | 430.3  | 431.2  | 433.0  | 434.9  | 436.7  | 438.5  |
| 110°   | 503.8  | 504.6  | 505.4  | 506.1  | 506.9  | 507.3  | 508.1  | 509.6  | 511.2  | 512.7  | 514.3  |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 578.4  | 580.0  | 581.5  | 583.1  | 584.6  | 585.4  | 585.7  | 586.2  | 586.7  | 587.3  | 587.8  |
| 115°   | 655.4  | 656.2  | 657.0  | 657.7  | 658.5  | 658.9  | 658.8  | 658.5  | 658.2  | 658.0  | 657.7  |
| 117.5° | 724.2  | 725.2  | 726.3  | 727.3  | 728.4  | 728.9  | 729.3  | 730.1  | 730.8  | 731.6  | 732.4  |
| 120°   | 794.2  | 795.2  | 796.3  | 797.3  | 798.4  | 798.9  | 798.8  | 798.5  | 798.2  | 798.0  | 797.7  |
| 122.5° | 859.5  | 860.0  | 860.5  | 861.0  | 861.5  | 861.8  | 862.1  | 862.6  | 863.1  | 863.7  | 864.2  |
| 125°   | 921.3  | 922.3  | 923.4  | 924.4  | 925.5  | 926.0  | 925.7  | 925.2  | 924.7  | 924.1  | 923.6  |
| 127.5° | 980.8  | 981.0  | 981.3  | 981.5  | 981.8  | 981.9  | 982.6  | 983.9  | 985.2  | 986.5  | 987.8  |
| 130°   | 1037.9 | 1038.2 | 1038.4 | 1038.7 | 1039.0 | 1039.1 | 1039.5 | 1040.3 | 1041.0 | 1041.8 | 1042.6 |
| 132.5° | 1090.4 | 1090.9 | 1091.4 | 1091.9 | 1092.4 | 1092.7 | 1093.2 | 1094.3 | 1095.3 | 1096.4 | 1097.4 |
| 135°   | 1142.9 | 1142.6 | 1142.4 | 1142.1 | 1141.8 | 1141.7 | 1142.2 | 1143.3 | 1144.3 | 1145.4 | 1146.4 |
| 137.5° | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1190.2 | 1191.5 | 1192.8 | 1194.1 | 1195.4 |
| 140°   | 1235.0 | 1235.5 | 1236.0 | 1236.5 | 1237.0 | 1237.3 | 1237.6 | 1238.1 | 1238.6 | 1239.2 | 1239.7 |
| 142.5° | 1275.8 | 1276.8 | 1277.9 | 1278.9 | 1280.0 | 1280.5 | 1280.6 | 1280.9 | 1281.2 | 1281.4 | 1281.7 |
| 145°   | 1317.8 | 1318.6 | 1319.4 | 1320.1 | 1320.9 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.3 |
| 147.5° | 1350.5 | 1352.1 | 1353.6 | 1355.2 | 1356.7 | 1357.5 | 1357.4 | 1357.1 | 1356.8 | 1356.6 | 1356.3 |
| 150°   | 1386.6 | 1387.6 | 1388.7 | 1389.7 | 1390.8 | 1391.3 | 1391.2 | 1390.9 | 1390.6 | 1390.4 | 1390.1 |
| 152.5° | 1416.9 | 1417.7 | 1418.5 | 1419.2 | 1420.0 | 1420.4 | 1420.1 | 1419.6 | 1419.1 | 1418.6 | 1418.1 |
| 155°   | 1444.9 | 1445.2 | 1445.4 | 1445.7 | 1446.0 | 1446.1 | 1445.7 | 1444.9 | 1444.2 | 1443.4 | 1442.6 |
| 157.5° | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1468.9 | 1467.9 | 1466.8 | 1465.8 | 1464.8 |
| 160°   | 1490.4 | 1489.6 | 1488.8 | 1488.1 | 1487.3 | 1486.9 | 1486.8 | 1486.5 | 1486.2 | 1486.0 | 1485.7 |
| 162.5° | 1509.1 | 1508.1 | 1507.0 | 1506.0 | 1504.9 | 1504.4 | 1504.3 | 1504.0 | 1503.7 | 1503.5 | 1503.2 |
| 165°   | 1524.2 | 1522.9 | 1521.6 | 1520.3 | 1519.0 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1518.4 |
| 167.5° | 1537.1 | 1535.8 | 1534.5 | 1533.2 | 1531.9 | 1531.2 | 1531.1 | 1530.8 | 1530.6 | 1530.3 | 1530.1 |
| 170°   | 1547.6 | 1546.0 | 1544.5 | 1542.9 | 1541.4 | 1540.6 | 1540.7 | 1541.0 | 1541.2 | 1541.5 | 1541.7 |
| 172.5° | 1554.6 | 1553.0 | 1551.5 | 1549.9 | 1548.4 | 1547.6 | 1547.7 | 1548.0 | 1548.2 | 1548.5 | 1548.7 |
| 175°   | 1559.2 | 1557.6 | 1556.1 | 1554.5 | 1553.0 | 1552.2 | 1552.3 | 1552.6 | 1552.9 | 1553.1 | 1553.4 |
| 177.5° | 1562.7 | 1560.9 | 1559.1 | 1557.3 | 1555.5 | 1554.6 | 1554.9 | 1555.4 | 1555.9 | 1556.4 | 1556.9 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1795.7 | 1810.9 | 1812.3 | 1826.1 | 1821.9 | 1815.0 | 1827.5 | 1819.2 | 1835.7 | 1830.2 | 1837.1 |
| 5°     | 1900.6 | 1921.3 | 1939.3 | 1950.3 | 1969.6 | 1965.5 | 1986.2 | 1979.3 | 1994.5 | 1979.3 | 1998.6 |
| 7.5°   | 2023.5 | 2058.0 | 2075.9 | 2104.9 | 2113.2 | 2114.6 | 2139.4 | 2144.9 | 2154.6 | 2144.9 | 2156.0 |
| 10°    | 2143.5 | 2184.9 | 2226.4 | 2249.8 | 2265.0 | 2285.7 | 2307.8 | 2317.4 | 2324.3 | 2314.7 | 2321.6 |
| 12.5°  | 2252.6 | 2317.4 | 2363.0 | 2409.9 | 2421.0 | 2438.9 | 2462.4 | 2459.6 | 2487.2 | 2481.7 | 2494.1 |
| 15°    | 2353.3 | 2425.1 | 2480.3 | 2517.6 | 2547.9 | 2563.1 | 2607.3 | 2610.1 | 2608.7 | 2622.5 | 2614.2 |
| 17.5°  | 2443.1 | 2503.8 | 2582.5 | 2630.8 | 2668.0 | 2668.0 | 2692.9 | 2743.9 | 2739.8 | 2738.4 | 2746.7 |
| 20°    | 2516.2 | 2585.2 | 2658.4 | 2739.8 | 2770.2 | 2775.7 | 2810.2 | 2836.4 | 2840.6 | 2840.6 | 2840.6 |
| 22.5°  | 2571.4 | 2652.8 | 2731.5 | 2789.5 | 2813.0 | 2832.3 | 2862.6 | 2879.2 | 2884.7 | 2882.0 | 2884.7 |
| 25°    | 2599.0 | 2676.3 | 2756.4 | 2808.8 | 2822.6 | 2833.7 | 2836.4 | 2846.1 | 2844.7 | 2828.1 | 2837.8 |
| 27.5°  | 2604.5 | 2679.1 | 2731.5 | 2745.3 | 2738.4 | 2731.5 | 2687.4 | 2691.5 | 2679.1 | 2654.2 | 2663.9 |
| 30°    | 2579.7 | 2619.7 | 2618.3 | 2575.6 | 2563.1 | 2534.1 | 2494.1 | 2434.8 | 2386.5 | 2365.8 | 2372.7 |
| 32.5°  | 2490.0 | 2490.0 | 2440.3 | 2343.7 | 2300.9 | 2248.4 | 2176.7 | 2122.8 | 2059.3 | 2045.5 | 2071.8 |
| 35°    | 2365.8 | 2295.4 | 2204.3 | 2077.3 | 2012.4 | 1973.8 | 1849.5 | 1810.9 | 1757.1 | 1741.9 | 1754.3 |
| 37.5°  | 2172.5 | 2055.2 | 1922.7 | 1804.0 | 1748.8 | 1679.8 | 1570.7 | 1515.5 | 1476.9 | 1450.6 | 1463.1 |
| 40°    | 1955.8 | 1813.7 | 1675.6 | 1529.3 | 1468.6 | 1412.0 | 1330.6 | 1280.9 | 1218.8 | 1221.5 | 1225.7 |
| 42.5°  | 1748.8 | 1581.8 | 1427.2 | 1291.9 | 1233.9 | 1187.0 | 1130.4 | 1069.7 | 1047.6 | 1040.7 | 1033.8 |
| 45°    | 1529.3 | 1351.3 | 1206.3 | 1105.6 | 1053.1 | 1009.0 | 956.5  | 922.0  | 895.8  | 890.3  | 897.2  |
| 47.5°  | 1322.3 | 1171.8 | 1033.8 | 940.0  | 897.2  | 875.1  | 833.7  | 801.9  | 785.4  | 771.6  | 779.8  |
| 50°    | 1134.6 | 993.8  | 883.4  | 804.7  | 774.3  | 759.1  | 720.5  | 703.9  | 687.4  | 683.2  | 681.8  |
| 52.5°  | 980.0  | 859.9  | 764.7  | 701.2  | 677.7  | 669.4  | 640.4  | 617.0  | 603.2  | 607.3  | 610.1  |
| 55°    | 839.2  | 737.1  | 662.5  | 611.5  | 592.1  | 582.5  | 561.8  | 545.2  | 535.5  | 531.4  | 534.2  |
| 57.5°  | 715.0  | 626.6  | 572.8  | 531.4  | 516.2  | 512.1  | 490.0  | 484.5  | 477.6  | 473.4  | 473.4  |
| 60°    | 601.8  | 539.7  | 490.0  | 466.5  | 450.0  | 445.8  | 429.3  | 422.4  | 421.0  | 416.8  | 414.1  |
| 62.5°  | 506.6  | 455.5  | 421.0  | 396.1  | 389.2  | 387.9  | 376.8  | 368.5  | 364.4  | 361.6  | 361.6  |
| 65°    | 423.7  | 386.5  | 357.5  | 339.5  | 334.0  | 331.3  | 318.8  | 316.1  | 313.3  | 310.6  | 309.2  |
| 67.5°  | 353.3  | 320.2  | 299.5  | 287.1  | 280.2  | 281.6  | 274.7  | 269.1  | 269.1  | 267.8  | 266.4  |
| 70°    | 285.7  | 265.0  | 247.1  | 240.2  | 237.4  | 234.6  | 231.9  | 227.7  | 226.4  | 226.4  | 226.4  |
| 72.5°  | 225.0  | 211.2  | 201.5  | 197.4  | 194.6  | 191.9  | 189.1  | 189.1  | 189.1  | 187.7  | 187.7  |
| 75°    | 172.5  | 167.0  | 160.1  | 156.0  | 156.0  | 158.7  | 154.6  | 150.4  | 146.3  | 143.5  | 144.9  |
| 77.5°  | 129.7  | 127.0  | 122.8  | 115.9  | 117.3  | 114.6  | 114.6  | 111.8  | 113.2  | 113.2  | 110.4  |
| 80°    | 95.2   | 91.1   | 89.7   | 85.6   | 87.0   | 85.6   | 84.2   | 84.2   | 81.4   | 81.4   | 81.4   |
| 82.5°  | 66.3   | 62.1   | 62.1   | 60.7   | 59.4   | 59.4   | 58.0   | 58.0   | 59.4   | 56.6   | 56.6   |
| 85°    | 40.0   | 38.6   | 38.6   | 35.9   | 35.9   | 35.9   | 35.9   | 37.3   | 35.9   | 34.5   | 34.5   |
| 87.5°  | 17.9   | 19.3   | 17.9   | 16.6   | 16.6   | 16.6   | 15.2   | 15.2   | 13.8   | 15.2   | 15.2   |
| 90°    | 27.3   | 28.8   | 30.4   | 31.9   | 32.7   | 33.0   | 33.5   | 34.0   | 34.5   | 35.0   | 34.5   |
| 92.5°  | 26.1   | 27.6   | 29.2   | 30.7   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   |
| 95°    | 27.3   | 28.8   | 30.4   | 31.9   | 32.7   | 32.8   | 33.1   | 33.3   | 33.6   | 33.8   | 33.6   |
| 97.5°  | 27.0   | 28.3   | 29.6   | 30.9   | 31.5   | 31.6   | 31.9   | 32.2   | 32.4   | 32.7   | 32.4   |
| 100°   | 46.9   | 42.5   | 38.1   | 33.7   | 31.5   | 31.6   | 31.9   | 32.2   | 32.4   | 32.7   | 32.4   |
| 102.5° | 237.9  | 179.6  | 121.3  | 63.0   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   |
| 105°   | 366.2  | 368.6  | 370.9  | 373.2  | 374.4  | 369.7  | 360.4  | 351.1  | 341.7  | 332.4  | 341.7  |
| 107.5° | 439.8  | 441.1  | 442.4  | 443.7  | 444.3  | 444.8  | 445.9  | 446.9  | 448.0  | 449.0  | 448.0  |
| 110°   | 514.8  | 515.3  | 515.8  | 516.3  | 516.6  | 517.0  | 517.8  | 518.5  | 519.3  | 520.1  | 519.3  |



TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 587.5  | 587.3  | 587.0  | 586.7  | 586.6  | 587.1  | 588.2  | 589.2  | 590.3  | 591.3  | 590.3  |
| 115°   | 658.2  | 658.8  | 659.3  | 659.8  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  |
| 117.5° | 732.1  | 731.9  | 731.6  | 731.3  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  |
| 120°   | 798.2  | 798.7  | 799.2  | 799.7  | 800.0  | 799.7  | 799.2  | 798.7  | 798.2  | 797.7  | 798.2  |
| 122.5° | 864.4  | 864.7  | 864.9  | 865.2  | 865.3  | 865.0  | 864.5  | 864.0  | 863.5  | 863.0  | 863.5  |
| 125°   | 924.4  | 925.2  | 925.9  | 926.7  | 927.1  | 927.2  | 927.5  | 927.8  | 928.0  | 928.3  | 928.0  |
| 127.5° | 987.5  | 987.3  | 987.0  | 986.7  | 986.6  | 986.5  | 986.2  | 985.9  | 985.7  | 985.4  | 985.7  |
| 130°   | 1042.9 | 1043.1 | 1043.4 | 1043.7 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 |
| 132.5° | 1097.7 | 1097.9 | 1098.2 | 1098.5 | 1098.6 | 1098.5 | 1098.2 | 1097.9 | 1097.7 | 1097.4 | 1097.7 |
| 135°   | 1146.9 | 1147.4 | 1147.9 | 1148.4 | 1148.7 | 1149.0 | 1149.5 | 1150.0 | 1150.5 | 1151.0 | 1150.5 |
| 137.5° | 1195.9 | 1196.4 | 1196.9 | 1197.4 | 1197.7 | 1197.6 | 1197.3 | 1197.0 | 1196.8 | 1196.5 | 1196.8 |
| 140°   | 1240.5 | 1241.3 | 1242.0 | 1242.8 | 1243.2 | 1243.3 | 1243.6 | 1243.8 | 1244.1 | 1244.3 | 1244.1 |
| 142.5° | 1282.2 | 1282.7 | 1283.2 | 1283.7 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 145°   | 1321.6 | 1321.8 | 1322.1 | 1322.4 | 1322.5 | 1322.8 | 1323.3 | 1323.8 | 1324.3 | 1324.8 | 1324.3 |
| 147.5° | 1356.6 | 1356.8 | 1357.1 | 1357.4 | 1357.5 | 1357.6 | 1357.9 | 1358.1 | 1358.4 | 1358.6 | 1358.4 |
| 150°   | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.2 | 1390.5 | 1390.8 | 1391.0 | 1391.3 | 1391.0 |
| 152.5° | 1418.6 | 1419.1 | 1419.6 | 1420.1 | 1420.4 | 1420.3 | 1420.0 | 1419.8 | 1419.5 | 1419.3 | 1419.5 |
| 155°   | 1443.6 | 1444.7 | 1445.7 | 1446.8 | 1447.3 | 1446.9 | 1446.1 | 1445.4 | 1444.6 | 1443.8 | 1444.6 |
| 157.5° | 1466.1 | 1467.4 | 1468.7 | 1470.0 | 1470.6 | 1470.0 | 1468.7 | 1467.4 | 1466.1 | 1464.8 | 1466.1 |
| 160°   | 1487.3 | 1488.8 | 1490.4 | 1491.9 | 1492.7 | 1491.9 | 1490.4 | 1488.8 | 1487.3 | 1485.7 | 1487.3 |
| 162.5° | 1504.8 | 1506.3 | 1507.9 | 1509.4 | 1510.2 | 1509.3 | 1507.5 | 1505.7 | 1503.9 | 1502.1 | 1503.9 |
| 165°   | 1520.5 | 1522.5 | 1524.6 | 1526.7 | 1527.7 | 1526.5 | 1524.2 | 1521.9 | 1519.5 | 1517.2 | 1519.5 |
| 167.5° | 1532.4 | 1534.8 | 1537.1 | 1539.4 | 1540.6 | 1539.3 | 1536.7 | 1534.1 | 1531.5 | 1528.9 | 1531.5 |
| 170°   | 1543.8 | 1545.9 | 1548.0 | 1550.1 | 1551.1 | 1549.8 | 1547.2 | 1544.6 | 1542.0 | 1539.4 | 1542.0 |
| 172.5° | 1550.8 | 1552.9 | 1555.0 | 1557.1 | 1558.1 | 1556.7 | 1553.8 | 1550.9 | 1548.1 | 1545.2 | 1548.1 |
| 175°   | 1555.7 | 1558.1 | 1560.4 | 1562.7 | 1563.9 | 1562.3 | 1559.2 | 1556.1 | 1553.0 | 1549.9 | 1553.0 |
| 177.5° | 1559.0 | 1561.0 | 1563.1 | 1565.2 | 1566.2 | 1564.6 | 1561.5 | 1558.4 | 1555.3 | 1552.2 | 1555.3 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1841.3 | 1831.6 | 1830.2 | 1830.2 | 1815.0 | 1823.3 | 1806.8 | 1788.8 | 1780.5 | 1780.5 | 1765.3 |
| 5°     | 1994.5 | 1984.8 | 1975.1 | 1960.0 | 1960.0 | 1951.7 | 1925.5 | 1899.2 | 1879.9 | 1863.3 | 1845.4 |
| 7.5°   | 2151.8 | 2142.2 | 2114.6 | 2099.4 | 2107.6 | 2091.1 | 2056.6 | 2012.4 | 1979.3 | 1953.1 | 1915.8 |
| 10°    | 2323.0 | 2296.7 | 2282.9 | 2274.7 | 2245.7 | 2227.7 | 2187.7 | 2122.8 | 2081.4 | 2046.9 | 1998.6 |
| 12.5°  | 2462.4 | 2470.7 | 2418.2 | 2422.3 | 2393.4 | 2368.5 | 2306.4 | 2244.3 | 2182.2 | 2133.9 | 2062.1 |
| 15°    | 2612.8 | 2588.0 | 2556.2 | 2531.4 | 2521.7 | 2491.4 | 2438.9 | 2356.1 | 2288.5 | 2212.5 | 2131.1 |
| 17.5°  | 2731.5 | 2712.2 | 2681.8 | 2658.4 | 2637.7 | 2564.5 | 2520.3 | 2447.2 | 2354.7 | 2280.2 | 2180.8 |
| 20°    | 2832.3 | 2814.3 | 2771.6 | 2756.4 | 2719.1 | 2666.7 | 2603.2 | 2490.0 | 2407.2 | 2325.7 | 2229.1 |
| 22.5°  | 2875.1 | 2857.1 | 2819.9 | 2800.5 | 2777.1 | 2726.0 | 2665.3 | 2557.6 | 2455.5 | 2353.3 | 2251.2 |
| 25°    | 2839.2 | 2839.2 | 2821.2 | 2814.3 | 2793.6 | 2748.1 | 2686.0 | 2594.9 | 2485.8 | 2375.4 | 2254.0 |
| 27.5°  | 2665.3 | 2699.8 | 2712.2 | 2719.1 | 2719.1 | 2720.5 | 2677.7 | 2589.4 | 2483.1 | 2375.4 | 2248.4 |
| 30°    | 2414.1 | 2472.0 | 2523.1 | 2538.3 | 2564.5 | 2593.5 | 2611.4 | 2568.7 | 2473.4 | 2360.2 | 2233.3 |
| 32.5°  | 2098.0 | 2172.5 | 2267.8 | 2291.2 | 2327.1 | 2414.1 | 2462.4 | 2480.3 | 2427.9 | 2328.5 | 2193.2 |
| 35°    | 1783.3 | 1877.1 | 1935.1 | 2006.9 | 2040.0 | 2168.4 | 2276.0 | 2340.9 | 2328.5 | 2269.1 | 2146.3 |
| 37.5°  | 1508.6 | 1562.4 | 1632.8 | 1708.8 | 1775.0 | 1897.9 | 2031.7 | 2157.3 | 2208.4 | 2179.4 | 2086.9 |
| 40°    | 1245.0 | 1308.5 | 1392.7 | 1454.8 | 1500.3 | 1623.2 | 1788.8 | 1925.5 | 2037.3 | 2055.2 | 1998.6 |
| 42.5°  | 1058.7 | 1122.1 | 1173.2 | 1240.8 | 1276.7 | 1395.4 | 1541.7 | 1712.9 | 1845.4 | 1915.8 | 1890.9 |
| 45°    | 915.1  | 953.8  | 995.2  | 1033.8 | 1078.0 | 1182.9 | 1318.1 | 1505.9 | 1654.9 | 1754.3 | 1764.0 |
| 47.5°  | 789.5  | 824.0  | 859.9  | 895.8  | 920.6  | 1002.1 | 1126.3 | 1279.5 | 1442.4 | 1579.0 | 1632.8 |
| 50°    | 701.2  | 717.7  | 744.0  | 764.7  | 793.6  | 864.0  | 963.4  | 1095.9 | 1268.5 | 1416.1 | 1486.5 |
| 52.5°  | 614.2  | 634.9  | 655.6  | 673.6  | 692.9  | 742.6  | 833.7  | 948.2  | 1097.3 | 1249.1 | 1336.1 |
| 55°    | 541.1  | 557.6  | 576.9  | 589.4  | 600.4  | 644.6  | 713.6  | 801.9  | 930.3  | 1073.8 | 1181.5 |
| 57.5°  | 481.7  | 488.6  | 505.2  | 512.1  | 524.5  | 560.4  | 610.1  | 688.7  | 792.3  | 931.7  | 1020.0 |
| 60°    | 416.8  | 430.6  | 443.1  | 448.6  | 458.2  | 483.1  | 517.6  | 590.7  | 680.5  | 782.6  | 883.4  |
| 62.5°  | 364.4  | 369.9  | 379.6  | 386.5  | 393.4  | 419.6  | 448.6  | 503.8  | 571.4  | 657.0  | 749.5  |
| 65°    | 316.1  | 318.8  | 324.4  | 334.0  | 338.2  | 357.5  | 374.0  | 414.1  | 477.6  | 542.4  | 634.9  |
| 67.5°  | 266.4  | 269.1  | 276.1  | 281.6  | 285.7  | 298.1  | 316.1  | 345.1  | 379.6  | 451.3  | 502.4  |
| 70°    | 227.7  | 227.7  | 231.9  | 234.6  | 238.8  | 244.3  | 254.0  | 276.1  | 307.8  | 353.3  | 400.3  |
| 72.5°  | 190.5  | 190.5  | 190.5  | 194.6  | 194.6  | 198.8  | 204.3  | 219.5  | 241.5  | 277.4  | 307.8  |
| 75°    | 147.7  | 149.1  | 151.8  | 151.8  | 153.2  | 158.7  | 162.9  | 167.0  | 178.1  | 201.5  | 229.1  |
| 77.5°  | 111.8  | 114.6  | 115.9  | 113.2  | 115.9  | 115.9  | 121.5  | 127.0  | 132.5  | 139.4  | 160.1  |
| 80°    | 82.8   | 84.2   | 81.4   | 82.8   | 82.8   | 85.6   | 88.3   | 87.0   | 89.7   | 98.0   | 103.5  |
| 82.5°  | 55.2   | 56.6   | 56.6   | 56.6   | 56.6   | 60.7   | 60.7   | 59.4   | 60.7   | 62.1   | 63.5   |
| 85°    | 34.5   | 33.1   | 33.1   | 34.5   | 33.1   | 33.1   | 34.5   | 35.9   | 34.5   | 35.9   | 37.3   |
| 87.5°  | 15.2   | 15.2   | 15.2   | 15.2   | 13.8   | 13.8   | 15.2   | 13.8   | 15.2   | 13.8   | 12.4   |
| 90°    | 34.0   | 33.5   | 33.0   | 32.7   | 31.9   | 30.4   | 28.8   | 27.3   | 25.7   | 23.6   | 21.5   |
| 92.5°  | 31.5   | 31.5   | 31.5   | 31.5   | 30.7   | 29.2   | 27.6   | 26.1   | 24.5   | 22.4   | 20.4   |
| 95°    | 33.3   | 33.1   | 32.8   | 32.7   | 31.9   | 30.4   | 28.8   | 27.3   | 25.7   | 25.4   | 25.2   |
| 97.5°  | 32.2   | 31.9   | 31.6   | 31.5   | 30.9   | 29.6   | 28.3   | 27.0   | 25.7   | 52.9   | 80.1   |
| 100°   | 32.2   | 31.9   | 31.6   | 31.5   | 33.7   | 38.1   | 42.5   | 46.9   | 51.3   | 87.1   | 122.8  |
| 102.5° | 33.8   | 33.8   | 33.8   | 33.8   | 63.0   | 121.3  | 179.6  | 237.9  | 296.2  | 293.1  | 290.0  |
| 105°   | 351.1  | 360.4  | 369.7  | 374.4  | 373.2  | 370.9  | 368.6  | 366.2  | 363.9  | 362.6  | 361.3  |
| 107.5° | 446.9  | 445.9  | 444.8  | 444.3  | 443.7  | 442.4  | 441.1  | 439.8  | 438.5  | 436.7  | 434.9  |
| 110°   | 518.5  | 517.8  | 517.0  | 516.6  | 516.3  | 515.8  | 515.3  | 514.8  | 514.3  | 512.7  | 511.2  |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 589.2  | 588.2  | 587.1  | 586.6  | 586.7  | 587.0  | 587.3  | 587.5  | 587.8  | 587.3  | 586.7  |
| 115°   | 660.1  | 660.1  | 660.1  | 660.1  | 659.8  | 659.3  | 658.8  | 658.2  | 657.7  | 658.0  | 658.2  |
| 117.5° | 731.2  | 731.2  | 731.2  | 731.2  | 731.3  | 731.6  | 731.9  | 732.1  | 732.4  | 731.6  | 730.8  |
| 120°   | 798.7  | 799.2  | 799.7  | 800.0  | 799.7  | 799.2  | 798.7  | 798.2  | 797.7  | 798.0  | 798.2  |
| 122.5° | 864.0  | 864.5  | 865.0  | 865.3  | 865.2  | 864.9  | 864.7  | 864.4  | 864.2  | 863.7  | 863.1  |
| 125°   | 927.8  | 927.5  | 927.2  | 927.1  | 926.7  | 925.9  | 925.2  | 924.4  | 923.6  | 924.1  | 924.7  |
| 127.5° | 985.9  | 986.2  | 986.5  | 986.6  | 986.7  | 987.0  | 987.3  | 987.5  | 987.8  | 986.5  | 985.2  |
| 130°   | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.7 | 1043.4 | 1043.1 | 1042.9 | 1042.6 | 1041.8 | 1041.0 |
| 132.5° | 1097.9 | 1098.2 | 1098.5 | 1098.6 | 1098.5 | 1098.2 | 1097.9 | 1097.7 | 1097.4 | 1096.4 | 1095.3 |
| 135°   | 1150.0 | 1149.5 | 1149.0 | 1148.7 | 1148.4 | 1147.9 | 1147.4 | 1146.9 | 1146.4 | 1145.4 | 1144.3 |
| 137.5° | 1197.0 | 1197.3 | 1197.6 | 1197.7 | 1197.4 | 1196.9 | 1196.4 | 1195.9 | 1195.4 | 1194.1 | 1192.8 |
| 140°   | 1243.8 | 1243.6 | 1243.3 | 1243.2 | 1242.8 | 1242.0 | 1241.3 | 1240.5 | 1239.7 | 1239.2 | 1238.6 |
| 142.5° | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1283.7 | 1283.2 | 1282.7 | 1282.2 | 1281.7 | 1281.4 | 1281.2 |
| 145°   | 1323.8 | 1323.3 | 1322.8 | 1322.5 | 1322.4 | 1322.1 | 1321.8 | 1321.6 | 1321.3 | 1321.3 | 1321.3 |
| 147.5° | 1358.1 | 1357.9 | 1357.6 | 1357.5 | 1357.4 | 1357.1 | 1356.8 | 1356.6 | 1356.3 | 1356.6 | 1356.8 |
| 150°   | 1390.8 | 1390.5 | 1390.2 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.4 | 1390.6 |
| 152.5° | 1419.8 | 1420.0 | 1420.3 | 1420.4 | 1420.1 | 1419.6 | 1419.1 | 1418.6 | 1418.1 | 1418.6 | 1419.1 |
| 155°   | 1445.4 | 1446.1 | 1446.9 | 1447.3 | 1446.8 | 1445.7 | 1444.7 | 1443.6 | 1442.6 | 1443.4 | 1444.2 |
| 157.5° | 1467.4 | 1468.7 | 1470.0 | 1470.6 | 1470.0 | 1468.7 | 1467.4 | 1466.1 | 1464.8 | 1465.8 | 1466.8 |
| 160°   | 1488.8 | 1490.4 | 1491.9 | 1492.7 | 1491.9 | 1490.4 | 1488.8 | 1487.3 | 1485.7 | 1486.0 | 1486.2 |
| 162.5° | 1505.7 | 1507.5 | 1509.3 | 1510.2 | 1509.4 | 1507.9 | 1506.3 | 1504.8 | 1503.2 | 1503.5 | 1503.7 |
| 165°   | 1521.9 | 1524.2 | 1526.5 | 1527.7 | 1526.7 | 1524.6 | 1522.5 | 1520.5 | 1518.4 | 1518.4 | 1518.4 |
| 167.5° | 1534.1 | 1536.7 | 1539.3 | 1540.6 | 1539.4 | 1537.1 | 1534.8 | 1532.4 | 1530.1 | 1530.3 | 1530.6 |
| 170°   | 1544.6 | 1547.2 | 1549.8 | 1551.1 | 1550.1 | 1548.0 | 1545.9 | 1543.8 | 1541.7 | 1541.5 | 1541.2 |
| 172.5° | 1550.9 | 1553.8 | 1556.7 | 1558.1 | 1557.1 | 1555.0 | 1552.9 | 1550.8 | 1548.7 | 1548.5 | 1548.2 |
| 175°   | 1556.1 | 1559.2 | 1562.3 | 1563.9 | 1562.7 | 1560.4 | 1558.1 | 1555.7 | 1553.4 | 1553.1 | 1552.9 |
| 177.5° | 1558.4 | 1561.5 | 1564.6 | 1566.2 | 1565.2 | 1563.1 | 1561.0 | 1559.0 | 1556.9 | 1556.4 | 1555.9 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1757.1 | 1750.2 | 1746.0 | 1744.6 | 1732.2 | 1725.3 | 1721.2 | 1718.4 | 1714.3 | 1703.2 | 1693.6 |
| 5°     | 1823.3 | 1804.0 | 1794.3 | 1783.3 | 1764.0 | 1741.9 | 1723.9 | 1712.9 | 1699.1 | 1677.0 | 1656.3 |
| 7.5°   | 1885.4 | 1856.4 | 1837.1 | 1821.9 | 1788.8 | 1752.9 | 1723.9 | 1700.5 | 1674.2 | 1643.9 | 1614.9 |
| 10°    | 1950.3 | 1903.4 | 1878.5 | 1855.1 | 1806.8 | 1759.8 | 1718.4 | 1683.9 | 1646.6 | 1606.6 | 1574.9 |
| 12.5°  | 2001.4 | 1939.3 | 1911.7 | 1878.5 | 1819.2 | 1764.0 | 1711.5 | 1664.6 | 1616.3 | 1573.5 | 1527.9 |
| 15°    | 2060.7 | 1983.4 | 1951.7 | 1908.9 | 1827.5 | 1755.7 | 1688.1 | 1637.0 | 1587.3 | 1523.8 | 1475.5 |
| 17.5°  | 2095.2 | 2005.5 | 1960.0 | 1922.7 | 1834.4 | 1747.4 | 1668.7 | 1605.2 | 1547.3 | 1483.8 | 1432.7 |
| 20°    | 2129.7 | 2027.6 | 1976.5 | 1924.1 | 1819.2 | 1726.7 | 1643.9 | 1568.0 | 1507.2 | 1438.2 | 1385.8 |
| 22.5°  | 2140.8 | 2022.1 | 1968.2 | 1919.9 | 1809.5 | 1706.0 | 1610.8 | 1533.5 | 1463.1 | 1394.1 | 1334.7 |
| 25°    | 2140.8 | 2020.7 | 1957.2 | 1895.1 | 1779.1 | 1672.9 | 1577.6 | 1493.4 | 1414.8 | 1345.7 | 1286.4 |
| 27.5°  | 2118.7 | 1993.1 | 1926.8 | 1870.2 | 1750.2 | 1635.6 | 1537.6 | 1445.1 | 1369.2 | 1300.2 | 1232.6 |
| 30°    | 2091.1 | 1953.1 | 1886.8 | 1819.2 | 1703.2 | 1594.2 | 1487.9 | 1402.3 | 1322.3 | 1243.6 | 1182.9 |
| 32.5°  | 2056.6 | 1910.3 | 1837.1 | 1768.1 | 1645.3 | 1532.1 | 1434.1 | 1349.9 | 1274.0 | 1192.5 | 1124.9 |
| 35°    | 2006.9 | 1846.8 | 1765.3 | 1704.6 | 1585.9 | 1468.6 | 1374.7 | 1291.9 | 1218.8 | 1134.6 | 1061.4 |
| 37.5°  | 1943.4 | 1788.8 | 1706.0 | 1631.5 | 1508.6 | 1401.0 | 1312.6 | 1232.6 | 1160.8 | 1083.5 | 1002.1 |
| 40°    | 1868.9 | 1707.4 | 1635.6 | 1556.9 | 1427.2 | 1325.0 | 1242.2 | 1170.5 | 1098.7 | 1025.5 | 946.9  |
| 42.5°  | 1784.7 | 1624.6 | 1544.5 | 1468.6 | 1344.4 | 1243.6 | 1166.3 | 1101.4 | 1035.2 | 967.6  | 883.4  |
| 45°    | 1683.9 | 1533.5 | 1456.2 | 1384.4 | 1264.3 | 1160.8 | 1090.4 | 1028.3 | 971.7  | 902.7  | 828.2  |
| 47.5°  | 1570.7 | 1439.6 | 1360.9 | 1283.6 | 1166.3 | 1076.6 | 1007.6 | 955.1  | 906.8  | 837.8  | 770.2  |
| 50°    | 1460.3 | 1330.6 | 1267.1 | 1188.4 | 1080.7 | 996.5  | 926.2  | 882.0  | 844.7  | 777.1  | 716.4  |
| 52.5°  | 1320.9 | 1222.9 | 1162.2 | 1094.5 | 991.0  | 905.4  | 850.2  | 811.6  | 767.4  | 715.0  | 661.1  |
| 55°    | 1198.1 | 1107.0 | 1058.7 | 995.2  | 893.0  | 817.1  | 770.2  | 734.3  | 699.8  | 652.9  | 610.1  |
| 57.5°  | 1058.7 | 1002.1 | 953.8  | 898.5  | 797.8  | 732.9  | 691.5  | 661.1  | 629.4  | 590.7  | 556.2  |
| 60°    | 912.3  | 886.1  | 839.2  | 795.0  | 709.5  | 652.9  | 618.4  | 590.7  | 560.4  | 528.6  | 499.7  |
| 62.5°  | 782.6  | 767.4  | 739.8  | 705.3  | 625.3  | 576.9  | 542.4  | 521.7  | 499.7  | 470.7  | 443.1  |
| 65°    | 659.8  | 652.9  | 626.6  | 601.8  | 546.6  | 503.8  | 473.4  | 461.0  | 436.2  | 414.1  | 389.2  |
| 67.5°  | 550.7  | 542.4  | 527.3  | 516.2  | 469.3  | 429.3  | 414.1  | 397.5  | 376.8  | 360.2  | 339.5  |
| 70°    | 440.3  | 438.9  | 429.3  | 415.5  | 390.6  | 361.6  | 346.4  | 335.4  | 314.7  | 302.3  | 287.1  |
| 72.5°  | 342.3  | 349.2  | 340.9  | 335.4  | 318.8  | 298.1  | 284.3  | 277.4  | 260.9  | 251.2  | 240.2  |
| 75°    | 255.3  | 260.9  | 265.0  | 255.3  | 251.2  | 241.5  | 229.1  | 222.2  | 213.9  | 200.1  | 196.0  |
| 77.5°  | 173.9  | 186.3  | 186.3  | 189.1  | 190.5  | 185.0  | 175.3  | 169.8  | 160.1  | 157.3  | 151.8  |
| 80°    | 114.6  | 125.6  | 127.0  | 129.7  | 133.9  | 133.9  | 127.0  | 125.6  | 115.9  | 114.6  | 110.4  |
| 82.5°  | 66.3   | 75.9   | 81.4   | 85.6   | 84.2   | 89.7   | 84.2   | 82.8   | 77.3   | 77.3   | 74.5   |
| 85°    | 35.9   | 37.3   | 40.0   | 42.8   | 45.5   | 48.3   | 48.3   | 46.9   | 45.5   | 44.2   | 41.4   |
| 87.5°  | 13.8   | 13.8   | 15.2   | 13.8   | 15.2   | 17.9   | 19.3   | 19.3   | 17.9   | 16.6   | 13.8   |
| 90°    | 19.4   | 17.3   | 16.3   | 14.9   | 12.0   | 9.2    | 6.3    | 3.5    | 6.3    | 9.2    | 12.0   |
| 92.5°  | 18.3   | 16.2   | 15.2   | 15.5   | 16.0   | 16.5   | 17.0   | 17.5   | 17.0   | 16.5   | 16.0   |
| 95°    | 24.9   | 24.6   | 24.5   | 28.9   | 37.7   | 46.5   | 55.3   | 64.1   | 55.3   | 46.5   | 37.7   |
| 97.5°  | 107.3  | 134.5  | 148.1  | 145.3  | 139.6  | 133.9  | 128.2  | 122.5  | 128.2  | 133.9  | 139.6  |
| 100°   | 158.6  | 194.3  | 212.2  | 209.9  | 205.2  | 200.6  | 195.9  | 191.3  | 195.9  | 200.6  | 205.2  |
| 102.5° | 286.9  | 283.8  | 282.2  | 280.6  | 277.5  | 274.4  | 271.3  | 268.2  | 271.3  | 274.4  | 277.5  |
| 105°   | 360.0  | 358.7  | 358.0  | 357.2  | 355.7  | 354.1  | 352.6  | 351.0  | 352.6  | 354.1  | 355.7  |
| 107.5° | 433.0  | 431.2  | 430.3  | 429.9  | 429.1  | 428.4  | 427.6  | 426.8  | 427.6  | 428.4  | 429.1  |
| 110°   | 509.6  | 508.1  | 507.3  | 506.9  | 506.1  | 505.4  | 504.6  | 503.8  | 504.6  | 505.4  | 506.1  |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 586.2  | 585.7  | 585.4  | 584.6  | 583.1  | 581.5  | 580.0  | 578.4  | 580.0  | 581.5  | 583.1  |
| 115°   | 658.5  | 658.8  | 658.9  | 658.5  | 657.7  | 657.0  | 656.2  | 655.4  | 656.2  | 657.0  | 657.7  |
| 117.5° | 730.1  | 729.3  | 728.9  | 728.4  | 727.3  | 726.3  | 725.2  | 724.2  | 725.2  | 726.3  | 727.3  |
| 120°   | 798.5  | 798.8  | 798.9  | 798.4  | 797.3  | 796.3  | 795.2  | 794.2  | 795.2  | 796.3  | 797.3  |
| 122.5° | 862.6  | 862.1  | 861.8  | 861.5  | 861.0  | 860.5  | 860.0  | 859.5  | 860.0  | 860.5  | 861.0  |
| 125°   | 925.2  | 925.7  | 926.0  | 925.5  | 924.4  | 923.4  | 922.3  | 921.3  | 922.3  | 923.4  | 924.4  |
| 127.5° | 983.9  | 982.6  | 981.9  | 981.8  | 981.5  | 981.3  | 981.0  | 980.8  | 981.0  | 981.3  | 981.5  |
| 130°   | 1040.3 | 1039.5 | 1039.1 | 1039.0 | 1038.7 | 1038.4 | 1038.2 | 1037.9 | 1038.2 | 1038.4 | 1038.7 |
| 132.5° | 1094.3 | 1093.2 | 1092.7 | 1092.4 | 1091.9 | 1091.4 | 1090.9 | 1090.4 | 1090.9 | 1091.4 | 1091.9 |
| 135°   | 1143.3 | 1142.2 | 1141.7 | 1141.8 | 1142.1 | 1142.4 | 1142.6 | 1142.9 | 1142.6 | 1142.4 | 1142.1 |
| 137.5° | 1191.5 | 1190.2 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 | 1189.5 |
| 140°   | 1238.1 | 1237.6 | 1237.3 | 1237.0 | 1236.5 | 1236.0 | 1235.5 | 1235.0 | 1235.5 | 1236.0 | 1236.5 |
| 142.5° | 1280.9 | 1280.6 | 1280.5 | 1280.0 | 1278.9 | 1277.9 | 1276.8 | 1275.8 | 1276.8 | 1277.9 | 1278.9 |
| 145°   | 1321.3 | 1321.3 | 1321.3 | 1320.9 | 1320.1 | 1319.4 | 1318.6 | 1317.8 | 1318.6 | 1319.4 | 1320.1 |
| 147.5° | 1357.1 | 1357.4 | 1357.5 | 1356.7 | 1355.2 | 1353.6 | 1352.1 | 1350.5 | 1352.1 | 1353.6 | 1355.2 |
| 150°   | 1390.9 | 1391.2 | 1391.3 | 1390.8 | 1389.7 | 1388.7 | 1387.6 | 1386.6 | 1387.6 | 1388.7 | 1389.7 |
| 152.5° | 1419.6 | 1420.1 | 1420.4 | 1420.0 | 1419.2 | 1418.5 | 1417.7 | 1416.9 | 1417.7 | 1418.5 | 1419.2 |
| 155°   | 1444.9 | 1445.7 | 1446.1 | 1446.0 | 1445.7 | 1445.4 | 1445.2 | 1444.9 | 1445.2 | 1445.4 | 1445.7 |
| 157.5° | 1467.9 | 1468.9 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 | 1469.4 |
| 160°   | 1486.5 | 1486.8 | 1486.9 | 1487.3 | 1488.1 | 1488.8 | 1489.6 | 1490.4 | 1489.6 | 1488.8 | 1488.1 |
| 162.5° | 1504.0 | 1504.3 | 1504.4 | 1504.9 | 1506.0 | 1507.0 | 1508.1 | 1509.1 | 1508.1 | 1507.0 | 1506.0 |
| 165°   | 1518.4 | 1518.4 | 1518.4 | 1519.0 | 1520.3 | 1521.6 | 1522.9 | 1524.2 | 1522.9 | 1521.6 | 1520.3 |
| 167.5° | 1530.8 | 1531.1 | 1531.2 | 1531.9 | 1533.2 | 1534.5 | 1535.8 | 1537.1 | 1535.8 | 1534.5 | 1533.2 |
| 170°   | 1541.0 | 1540.7 | 1540.6 | 1541.4 | 1542.9 | 1544.5 | 1546.0 | 1547.6 | 1546.0 | 1544.5 | 1542.9 |
| 172.5° | 1548.0 | 1547.7 | 1547.6 | 1548.4 | 1549.9 | 1551.5 | 1553.0 | 1554.6 | 1553.0 | 1551.5 | 1549.9 |
| 175°   | 1552.6 | 1552.3 | 1552.2 | 1553.0 | 1554.5 | 1556.1 | 1557.6 | 1559.2 | 1557.6 | 1556.1 | 1554.5 |
| 177.5° | 1555.4 | 1554.9 | 1554.6 | 1555.5 | 1557.3 | 1559.1 | 1560.9 | 1562.7 | 1560.9 | 1559.1 | 1557.3 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1685.3 | 1682.5 | 1679.8 | 1668.7 | 1659.1 | 1642.5 | 1628.7 | 1623.2 | 1621.8 | 1623.2 | 1619.0 |
| 5°     | 1637.0 | 1635.6 | 1625.9 | 1606.6 | 1588.7 | 1569.3 | 1555.5 | 1541.7 | 1533.5 | 1533.5 | 1523.8 |
| 7.5°   | 1591.4 | 1581.8 | 1573.5 | 1548.6 | 1527.9 | 1501.7 | 1481.0 | 1468.6 | 1461.7 | 1446.5 | 1446.5 |
| 10°    | 1543.1 | 1529.3 | 1518.3 | 1494.8 | 1464.5 | 1438.2 | 1412.0 | 1396.8 | 1384.4 | 1373.4 | 1369.2 |
| 12.5°  | 1494.8 | 1483.8 | 1463.1 | 1438.2 | 1407.9 | 1374.7 | 1347.1 | 1336.1 | 1307.1 | 1283.6 | 1285.0 |
| 15°    | 1449.3 | 1424.4 | 1414.8 | 1378.9 | 1343.0 | 1311.2 | 1271.2 | 1239.5 | 1216.0 | 1200.8 | 1181.5 |
| 17.5°  | 1398.2 | 1373.4 | 1355.4 | 1325.0 | 1278.1 | 1228.4 | 1189.8 | 1147.0 | 1123.5 | 1097.3 | 1084.9 |
| 20°    | 1341.6 | 1320.9 | 1307.1 | 1258.8 | 1202.2 | 1142.9 | 1100.1 | 1073.8 | 1047.6 | 1028.3 | 1017.2 |
| 22.5°  | 1293.3 | 1267.1 | 1250.5 | 1185.6 | 1123.5 | 1064.2 | 1031.1 | 1009.0 | 986.9  | 970.3  | 964.8  |
| 25°    | 1231.2 | 1216.0 | 1176.0 | 1119.4 | 1043.5 | 1003.4 | 974.5  | 945.5  | 933.1  | 922.0  | 909.6  |
| 27.5°  | 1180.1 | 1142.9 | 1115.2 | 1040.7 | 993.8  | 948.2  | 919.2  | 897.2  | 882.0  | 870.9  | 861.3  |
| 30°    | 1116.6 | 1082.1 | 1043.5 | 981.4  | 938.6  | 895.8  | 869.6  | 851.6  | 835.1  | 828.2  | 819.9  |
| 32.5°  | 1050.4 | 1018.6 | 981.4  | 931.7  | 879.2  | 846.1  | 825.4  | 806.1  | 795.0  | 788.1  | 778.5  |
| 35°    | 991.0  | 951.0  | 926.2  | 879.2  | 836.4  | 799.2  | 779.8  | 763.3  | 750.9  | 748.1  | 746.7  |
| 37.5°  | 927.5  | 897.2  | 873.7  | 825.4  | 789.5  | 757.8  | 739.8  | 721.9  | 715.0  | 713.6  | 708.1  |
| 40°    | 872.3  | 846.1  | 824.0  | 778.5  | 739.8  | 710.8  | 697.0  | 686.0  | 679.1  | 679.1  | 677.7  |
| 42.5°  | 824.0  | 796.4  | 774.3  | 732.9  | 698.4  | 672.2  | 657.0  | 646.0  | 643.2  | 644.6  | 643.2  |
| 45°    | 770.2  | 746.7  | 724.6  | 681.8  | 652.9  | 633.5  | 617.0  | 611.5  | 607.3  | 608.7  | 610.1  |
| 47.5°  | 719.1  | 699.8  | 677.7  | 643.2  | 610.1  | 589.4  | 579.7  | 574.2  | 574.2  | 574.2  | 576.9  |
| 50°    | 673.6  | 651.5  | 632.2  | 596.3  | 565.9  | 549.3  | 541.1  | 534.2  | 535.5  | 536.9  | 538.3  |
| 52.5°  | 619.7  | 600.4  | 586.6  | 550.7  | 528.6  | 507.9  | 498.3  | 499.7  | 498.3  | 498.3  | 501.0  |
| 55°    | 572.8  | 553.5  | 539.7  | 506.6  | 484.5  | 470.7  | 462.4  | 458.2  | 459.6  | 456.9  | 462.4  |
| 57.5°  | 520.4  | 503.8  | 494.1  | 462.4  | 443.1  | 430.6  | 423.7  | 416.8  | 419.6  | 418.2  | 416.8  |
| 60°    | 474.8  | 455.5  | 440.3  | 418.2  | 401.7  | 386.5  | 382.3  | 375.4  | 378.2  | 375.4  | 374.0  |
| 62.5°  | 422.4  | 407.2  | 396.1  | 374.0  | 360.2  | 347.8  | 338.2  | 334.0  | 332.6  | 328.5  | 324.4  |
| 65°    | 369.9  | 361.6  | 350.6  | 328.5  | 314.7  | 305.0  | 299.5  | 295.4  | 294.0  | 283.0  | 270.5  |
| 67.5°  | 321.6  | 316.1  | 305.0  | 288.5  | 276.1  | 266.4  | 258.1  | 251.2  | 242.9  | 234.6  | 227.7  |
| 70°    | 276.1  | 267.8  | 260.9  | 245.7  | 234.6  | 225.0  | 216.7  | 208.4  | 204.3  | 196.0  | 193.2  |
| 72.5°  | 231.9  | 223.6  | 216.7  | 202.9  | 193.2  | 183.6  | 180.8  | 171.2  | 167.0  | 165.6  | 165.6  |
| 75°    | 186.3  | 179.4  | 175.3  | 162.9  | 154.6  | 147.7  | 143.5  | 140.8  | 138.0  | 135.3  | 131.1  |
| 77.5°  | 142.2  | 138.0  | 135.3  | 127.0  | 120.1  | 115.9  | 114.6  | 104.9  | 102.1  | 99.4   | 96.6   |
| 80°    | 103.5  | 102.1  | 99.4   | 92.5   | 89.7   | 80.1   | 80.1   | 77.3   | 75.9   | 75.9   | 75.9   |
| 82.5°  | 70.4   | 67.6   | 66.3   | 59.4   | 58.0   | 56.6   | 55.2   | 53.8   | 55.2   | 53.8   | 55.2   |
| 85°    | 37.3   | 35.9   | 34.5   | 34.5   | 34.5   | 34.5   | 34.5   | 34.5   | 34.5   | 33.1   | 34.5   |
| 87.5°  | 13.8   | 13.8   | 13.8   | 13.8   | 12.4   | 13.8   | 13.8   | 12.4   | 13.8   | 13.8   | 13.8   |
| 90°    | 14.9   | 16.3   | 17.3   | 19.4   | 21.5   | 23.6   | 25.7   | 27.3   | 28.8   | 30.4   | 31.9   |
| 92.5°  | 15.5   | 15.2   | 16.2   | 18.3   | 20.4   | 22.4   | 24.5   | 26.1   | 27.6   | 29.2   | 30.7   |
| 95°    | 28.9   | 24.5   | 24.6   | 24.9   | 25.2   | 25.4   | 25.7   | 27.3   | 28.8   | 30.4   | 31.9   |
| 97.5°  | 145.3  | 148.1  | 134.5  | 107.3  | 80.1   | 52.9   | 25.7   | 27.0   | 28.3   | 29.6   | 30.9   |
| 100°   | 209.9  | 212.2  | 194.3  | 158.6  | 122.8  | 87.1   | 51.3   | 46.9   | 42.5   | 38.1   | 33.7   |
| 102.5° | 280.6  | 282.2  | 283.8  | 286.9  | 290.0  | 293.1  | 296.2  | 237.9  | 179.6  | 121.3  | 63.0   |
| 105°   | 357.2  | 358.0  | 358.7  | 360.0  | 361.3  | 362.6  | 363.9  | 366.2  | 368.6  | 370.9  | 373.2  |
| 107.5° | 429.9  | 430.3  | 431.2  | 433.0  | 434.9  | 436.7  | 438.5  | 439.8  | 441.1  | 442.4  | 443.7  |
| 110°   | 506.9  | 507.3  | 508.1  | 509.6  | 511.2  | 512.7  | 514.3  | 514.8  | 515.3  | 515.8  | 516.3  |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 584.6  | 585.4  | 585.7  | 586.2  | 586.7  | 587.3  | 587.8  | 587.5  | 587.3  | 587.0  | 586.7  |
| 115°   | 658.5  | 658.9  | 658.8  | 658.5  | 658.2  | 658.0  | 657.7  | 658.2  | 658.8  | 659.3  | 659.8  |
| 117.5° | 728.4  | 728.9  | 729.3  | 730.1  | 730.8  | 731.6  | 732.4  | 732.1  | 731.9  | 731.6  | 731.3  |
| 120°   | 798.4  | 798.9  | 798.8  | 798.5  | 798.2  | 798.0  | 797.7  | 798.2  | 798.7  | 799.2  | 799.7  |
| 122.5° | 861.5  | 861.8  | 862.1  | 862.6  | 863.1  | 863.7  | 864.2  | 864.4  | 864.7  | 864.9  | 865.2  |
| 125°   | 925.5  | 926.0  | 925.7  | 925.2  | 924.7  | 924.1  | 923.6  | 924.4  | 925.2  | 925.9  | 926.7  |
| 127.5° | 981.8  | 981.9  | 982.6  | 983.9  | 985.2  | 986.5  | 987.8  | 987.5  | 987.3  | 987.0  | 986.7  |
| 130°   | 1039.0 | 1039.1 | 1039.5 | 1040.3 | 1041.0 | 1041.8 | 1042.6 | 1042.9 | 1043.1 | 1043.4 | 1043.7 |
| 132.5° | 1092.4 | 1092.7 | 1093.2 | 1094.3 | 1095.3 | 1096.4 | 1097.4 | 1097.7 | 1097.9 | 1098.2 | 1098.5 |
| 135°   | 1141.8 | 1141.7 | 1142.2 | 1143.3 | 1144.3 | 1145.4 | 1146.4 | 1146.9 | 1147.4 | 1147.9 | 1148.4 |
| 137.5° | 1189.5 | 1189.5 | 1190.2 | 1191.5 | 1192.8 | 1194.1 | 1195.4 | 1195.9 | 1196.4 | 1196.9 | 1197.4 |
| 140°   | 1237.0 | 1237.3 | 1237.6 | 1238.1 | 1238.6 | 1239.2 | 1239.7 | 1240.5 | 1241.3 | 1242.0 | 1242.8 |
| 142.5° | 1280.0 | 1280.5 | 1280.6 | 1280.9 | 1281.2 | 1281.4 | 1281.7 | 1282.2 | 1282.7 | 1283.2 | 1283.7 |
| 145°   | 1320.9 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.6 | 1321.8 | 1322.1 | 1322.4 |
| 147.5° | 1356.7 | 1357.5 | 1357.4 | 1357.1 | 1356.8 | 1356.6 | 1356.3 | 1356.6 | 1356.8 | 1357.1 | 1357.4 |
| 150°   | 1390.8 | 1391.3 | 1391.2 | 1390.9 | 1390.6 | 1390.4 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 |
| 152.5° | 1420.0 | 1420.4 | 1420.1 | 1419.6 | 1419.1 | 1418.6 | 1418.1 | 1418.6 | 1419.1 | 1419.6 | 1420.1 |
| 155°   | 1446.0 | 1446.1 | 1445.7 | 1444.9 | 1444.2 | 1443.4 | 1442.6 | 1443.6 | 1444.7 | 1445.7 | 1446.8 |
| 157.5° | 1469.4 | 1469.4 | 1468.9 | 1467.9 | 1466.8 | 1465.8 | 1464.8 | 1466.1 | 1467.4 | 1468.7 | 1470.0 |
| 160°   | 1487.3 | 1486.9 | 1486.8 | 1486.5 | 1486.2 | 1486.0 | 1485.7 | 1487.3 | 1488.8 | 1490.4 | 1491.9 |
| 162.5° | 1504.9 | 1504.4 | 1504.3 | 1504.0 | 1503.7 | 1503.5 | 1503.2 | 1504.8 | 1506.3 | 1507.9 | 1509.4 |
| 165°   | 1519.0 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1520.5 | 1522.5 | 1524.6 | 1526.7 |
| 167.5° | 1531.9 | 1531.2 | 1531.1 | 1530.8 | 1530.6 | 1530.3 | 1530.1 | 1532.4 | 1534.8 | 1537.1 | 1539.4 |
| 170°   | 1541.4 | 1540.6 | 1540.7 | 1541.0 | 1541.2 | 1541.5 | 1541.7 | 1543.8 | 1545.9 | 1548.0 | 1550.1 |
| 172.5° | 1548.4 | 1547.6 | 1547.7 | 1548.0 | 1548.2 | 1548.5 | 1548.7 | 1550.8 | 1552.9 | 1555.0 | 1557.1 |
| 175°   | 1553.0 | 1552.2 | 1552.3 | 1552.6 | 1552.9 | 1553.1 | 1553.4 | 1555.7 | 1558.1 | 1560.4 | 1562.7 |
| 177.5° | 1555.5 | 1554.6 | 1554.9 | 1555.4 | 1555.9 | 1556.4 | 1556.9 | 1559.0 | 1561.0 | 1563.1 | 1565.2 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |



TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1619.0 | 1624.6 | 1617.7 | 1621.8 | 1612.1 | 1610.8 | 1612.1 | 1612.1 | 1613.5 | 1614.9 | 1616.3 |
| 5°     | 1527.9 | 1526.6 | 1518.3 | 1512.8 | 1508.6 | 1512.8 | 1515.5 | 1518.3 | 1515.5 | 1518.3 | 1519.7 |
| 7.5°   | 1442.4 | 1438.2 | 1434.1 | 1424.4 | 1427.2 | 1424.4 | 1432.7 | 1428.6 | 1428.6 | 1435.5 | 1441.0 |
| 10°    | 1366.5 | 1358.2 | 1355.4 | 1344.4 | 1336.1 | 1334.7 | 1344.4 | 1348.5 | 1352.6 | 1355.4 | 1366.5 |
| 12.5°  | 1268.5 | 1256.0 | 1246.4 | 1250.5 | 1227.0 | 1236.7 | 1239.5 | 1233.9 | 1250.5 | 1269.8 | 1258.8 |
| 15°    | 1163.6 | 1164.9 | 1145.6 | 1138.7 | 1119.4 | 1124.9 | 1126.3 | 1140.1 | 1153.9 | 1152.5 | 1169.1 |
| 17.5°  | 1086.3 | 1078.0 | 1061.4 | 1060.0 | 1051.8 | 1055.9 | 1054.5 | 1065.6 | 1061.4 | 1068.3 | 1082.1 |
| 20°    | 1014.5 | 1009.0 | 995.2  | 989.6  | 992.4  | 989.6  | 991.0  | 992.4  | 996.5  | 1011.7 | 1009.0 |
| 22.5°  | 957.9  | 951.0  | 951.0  | 944.1  | 935.8  | 933.1  | 940.0  | 944.1  | 949.6  | 952.4  | 959.3  |
| 25°    | 908.2  | 902.7  | 895.8  | 891.6  | 884.7  | 886.1  | 890.3  | 895.8  | 899.9  | 905.4  | 911.0  |
| 27.5°  | 857.1  | 857.1  | 850.2  | 848.9  | 846.1  | 844.7  | 850.2  | 853.0  | 853.0  | 857.1  | 862.7  |
| 30°    | 817.1  | 817.1  | 810.2  | 808.8  | 807.4  | 807.4  | 811.6  | 813.0  | 814.4  | 818.5  | 821.3  |
| 32.5°  | 778.5  | 777.1  | 774.3  | 775.7  | 774.3  | 775.7  | 775.7  | 777.1  | 779.8  | 781.2  | 786.7  |
| 35°    | 742.6  | 744.0  | 741.2  | 741.2  | 739.8  | 741.2  | 744.0  | 745.3  | 746.7  | 749.5  | 749.5  |
| 37.5°  | 708.1  | 710.8  | 709.5  | 713.6  | 713.6  | 713.6  | 713.6  | 716.4  | 716.4  | 716.4  | 715.0  |
| 40°    | 677.7  | 677.7  | 676.3  | 679.1  | 681.8  | 681.8  | 683.2  | 683.2  | 684.6  | 684.6  | 683.2  |
| 42.5°  | 643.2  | 646.0  | 650.1  | 651.5  | 654.2  | 652.9  | 657.0  | 655.6  | 657.0  | 654.2  | 651.5  |
| 45°    | 611.5  | 611.5  | 617.0  | 622.5  | 623.9  | 623.9  | 623.9  | 626.6  | 623.9  | 619.7  | 618.4  |
| 47.5°  | 576.9  | 579.7  | 582.5  | 589.4  | 590.7  | 590.7  | 590.7  | 590.7  | 588.0  | 588.0  | 588.0  |
| 50°    | 542.4  | 543.8  | 545.2  | 548.0  | 552.1  | 550.7  | 550.7  | 550.7  | 556.2  | 550.7  | 552.1  |
| 52.5°  | 501.0  | 502.4  | 503.8  | 509.3  | 507.9  | 507.9  | 509.3  | 509.3  | 513.5  | 512.1  | 509.3  |
| 55°    | 459.6  | 459.6  | 462.4  | 462.4  | 462.4  | 465.1  | 466.5  | 469.3  | 467.9  | 469.3  | 470.7  |
| 57.5°  | 418.2  | 415.5  | 414.1  | 414.1  | 418.2  | 416.8  | 418.2  | 418.2  | 423.7  | 426.5  | 427.9  |
| 60°    | 369.9  | 369.9  | 368.5  | 360.2  | 360.2  | 358.9  | 363.0  | 365.8  | 368.5  | 381.0  | 379.6  |
| 62.5°  | 320.2  | 314.7  | 309.2  | 310.6  | 302.3  | 306.4  | 303.7  | 306.4  | 314.7  | 324.4  | 325.7  |
| 65°    | 270.5  | 266.4  | 260.9  | 259.5  | 256.7  | 260.9  | 259.5  | 260.9  | 265.0  | 270.5  | 277.4  |
| 67.5°  | 226.4  | 225.0  | 222.2  | 220.8  | 220.8  | 220.8  | 223.6  | 223.6  | 225.0  | 229.1  | 233.3  |
| 70°    | 193.2  | 191.9  | 193.2  | 190.5  | 191.9  | 190.5  | 191.9  | 193.2  | 194.6  | 196.0  | 200.1  |
| 72.5°  | 162.9  | 162.9  | 162.9  | 160.1  | 162.9  | 161.5  | 161.5  | 162.9  | 164.3  | 165.6  | 168.4  |
| 75°    | 129.7  | 127.0  | 124.2  | 121.5  | 120.1  | 122.8  | 124.2  | 122.8  | 127.0  | 132.5  | 132.5  |
| 77.5°  | 98.0   | 96.6   | 96.6   | 96.6   | 98.0   | 96.6   | 99.4   | 98.0   | 99.4   | 99.4   | 102.1  |
| 80°    | 75.9   | 74.5   | 75.9   | 75.9   | 74.5   | 77.3   | 75.9   | 75.9   | 77.3   | 78.7   | 77.3   |
| 82.5°  | 55.2   | 56.6   | 55.2   | 55.2   | 55.2   | 58.0   | 55.2   | 55.2   | 55.2   | 56.6   | 56.6   |
| 85°    | 34.5   | 34.5   | 34.5   | 34.5   | 35.9   | 34.5   | 35.9   | 34.5   | 37.3   | 35.9   | 35.9   |
| 87.5°  | 12.4   | 13.8   | 15.2   | 15.2   | 15.2   | 15.2   | 13.8   | 15.2   | 16.6   | 15.2   | 16.6   |
| 90°    | 32.7   | 33.0   | 33.5   | 34.0   | 34.5   | 35.0   | 34.5   | 34.0   | 33.5   | 33.0   | 32.7   |
| 92.5°  | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   | 31.5   |
| 95°    | 32.7   | 32.8   | 33.1   | 33.3   | 33.6   | 33.8   | 33.6   | 33.3   | 33.1   | 32.8   | 32.7   |
| 97.5°  | 31.5   | 31.6   | 31.9   | 32.2   | 32.4   | 32.7   | 32.4   | 32.2   | 31.9   | 31.6   | 31.5   |
| 100°   | 31.5   | 31.6   | 31.9   | 32.2   | 32.4   | 32.7   | 32.4   | 32.2   | 31.9   | 31.6   | 31.5   |
| 102.5° | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   |
| 105°   | 374.4  | 369.7  | 360.4  | 351.1  | 341.7  | 332.4  | 341.7  | 351.1  | 360.4  | 369.7  | 374.4  |
| 107.5° | 444.3  | 444.8  | 445.9  | 446.9  | 448.0  | 449.0  | 448.0  | 446.9  | 445.9  | 444.8  | 444.3  |
| 110°   | 516.6  | 517.0  | 517.8  | 518.5  | 519.3  | 520.1  | 519.3  | 518.5  | 517.8  | 517.0  | 516.6  |



TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 586.6  | 587.1  | 588.2  | 589.2  | 590.3  | 591.3  | 590.3  | 589.2  | 588.2  | 587.1  | 586.6  |
| 115°   | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  | 660.1  |
| 117.5° | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  | 731.2  |
| 120°   | 800.0  | 799.7  | 799.2  | 798.7  | 798.2  | 797.7  | 798.2  | 798.7  | 799.2  | 799.7  | 800.0  |
| 122.5° | 865.3  | 865.0  | 864.5  | 864.0  | 863.5  | 863.0  | 863.5  | 864.0  | 864.5  | 865.0  | 865.3  |
| 125°   | 927.1  | 927.2  | 927.5  | 927.8  | 928.0  | 928.3  | 928.0  | 927.8  | 927.5  | 927.2  | 927.1  |
| 127.5° | 986.6  | 986.5  | 986.2  | 985.9  | 985.7  | 985.4  | 985.7  | 985.9  | 986.2  | 986.5  | 986.6  |
| 130°   | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 | 1043.8 |
| 132.5° | 1098.6 | 1098.5 | 1098.2 | 1097.9 | 1097.7 | 1097.4 | 1097.7 | 1097.9 | 1098.2 | 1098.5 | 1098.6 |
| 135°   | 1148.7 | 1149.0 | 1149.5 | 1150.0 | 1150.5 | 1151.0 | 1150.5 | 1150.0 | 1149.5 | 1149.0 | 1148.7 |
| 137.5° | 1197.7 | 1197.6 | 1197.3 | 1197.0 | 1196.8 | 1196.5 | 1196.8 | 1197.0 | 1197.3 | 1197.6 | 1197.7 |
| 140°   | 1243.2 | 1243.3 | 1243.6 | 1243.8 | 1244.1 | 1244.3 | 1244.1 | 1243.8 | 1243.6 | 1243.3 | 1243.2 |
| 142.5° | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 145°   | 1322.5 | 1322.8 | 1323.3 | 1323.8 | 1324.3 | 1324.8 | 1324.3 | 1323.8 | 1323.3 | 1322.8 | 1322.5 |
| 147.5° | 1357.5 | 1357.6 | 1357.9 | 1358.1 | 1358.4 | 1358.6 | 1358.4 | 1358.1 | 1357.9 | 1357.6 | 1357.5 |
| 150°   | 1390.1 | 1390.2 | 1390.5 | 1390.8 | 1391.0 | 1391.3 | 1391.0 | 1390.8 | 1390.5 | 1390.2 | 1390.1 |
| 152.5° | 1420.4 | 1420.3 | 1420.0 | 1419.8 | 1419.5 | 1419.3 | 1419.5 | 1419.8 | 1420.0 | 1420.3 | 1420.4 |
| 155°   | 1447.3 | 1446.9 | 1446.1 | 1445.4 | 1444.6 | 1443.8 | 1444.6 | 1445.4 | 1446.1 | 1446.9 | 1447.3 |
| 157.5° | 1470.6 | 1470.0 | 1468.7 | 1467.4 | 1466.1 | 1464.8 | 1466.1 | 1467.4 | 1468.7 | 1470.0 | 1470.6 |
| 160°   | 1492.7 | 1491.9 | 1490.4 | 1488.8 | 1487.3 | 1485.7 | 1487.3 | 1488.8 | 1490.4 | 1491.9 | 1492.7 |
| 162.5° | 1510.2 | 1509.3 | 1507.5 | 1505.7 | 1503.9 | 1502.1 | 1503.9 | 1505.7 | 1507.5 | 1509.3 | 1510.2 |
| 165°   | 1527.7 | 1526.5 | 1524.2 | 1521.9 | 1519.5 | 1517.2 | 1519.5 | 1521.9 | 1524.2 | 1526.5 | 1527.7 |
| 167.5° | 1540.6 | 1539.3 | 1536.7 | 1534.1 | 1531.5 | 1528.9 | 1531.5 | 1534.1 | 1536.7 | 1539.3 | 1540.6 |
| 170°   | 1551.1 | 1549.8 | 1547.2 | 1544.6 | 1542.0 | 1539.4 | 1542.0 | 1544.6 | 1547.2 | 1549.8 | 1551.1 |
| 172.5° | 1558.1 | 1556.7 | 1553.8 | 1550.9 | 1548.1 | 1545.2 | 1548.1 | 1550.9 | 1553.8 | 1556.7 | 1558.1 |
| 175°   | 1563.9 | 1562.3 | 1559.2 | 1556.1 | 1553.0 | 1549.9 | 1553.0 | 1556.1 | 1559.2 | 1562.3 | 1563.9 |
| 177.5° | 1566.2 | 1564.6 | 1561.5 | 1558.4 | 1555.3 | 1552.2 | 1555.3 | 1558.4 | 1561.5 | 1564.6 | 1566.2 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1621.8 | 1628.7 | 1625.9 | 1616.3 | 1620.4 | 1628.7 | 1637.0 | 1648.0 | 1654.9 | 1660.4 | 1663.2 |
| 5°     | 1526.6 | 1539.0 | 1536.2 | 1536.2 | 1541.7 | 1555.5 | 1569.3 | 1592.8 | 1601.1 | 1610.8 | 1624.6 |
| 7.5°   | 1442.4 | 1452.0 | 1460.3 | 1463.1 | 1471.4 | 1489.3 | 1507.2 | 1533.5 | 1554.2 | 1565.2 | 1573.5 |
| 10°    | 1367.8 | 1374.7 | 1387.2 | 1394.1 | 1402.3 | 1424.4 | 1450.6 | 1478.3 | 1499.0 | 1518.3 | 1529.3 |
| 12.5°  | 1272.6 | 1300.2 | 1316.8 | 1327.8 | 1338.8 | 1372.0 | 1392.7 | 1423.0 | 1447.9 | 1465.8 | 1482.4 |
| 15°    | 1166.3 | 1199.4 | 1209.1 | 1251.9 | 1279.5 | 1305.7 | 1337.5 | 1373.4 | 1396.8 | 1417.5 | 1439.6 |
| 17.5°  | 1076.6 | 1100.1 | 1111.1 | 1156.7 | 1180.1 | 1221.5 | 1267.1 | 1312.6 | 1348.5 | 1363.7 | 1385.8 |
| 20°    | 1020.0 | 1032.4 | 1054.5 | 1069.7 | 1094.5 | 1142.9 | 1192.5 | 1247.8 | 1301.6 | 1316.8 | 1338.8 |
| 22.5°  | 962.0  | 978.6  | 993.8  | 1014.5 | 1033.8 | 1066.9 | 1116.6 | 1177.4 | 1235.3 | 1262.9 | 1289.2 |
| 25°    | 909.6  | 926.2  | 935.8  | 957.9  | 975.8  | 1009.0 | 1043.5 | 1105.6 | 1174.6 | 1198.1 | 1239.5 |
| 27.5°  | 868.2  | 877.8  | 894.4  | 904.1  | 924.8  | 955.1  | 986.9  | 1033.8 | 1101.4 | 1141.5 | 1181.5 |
| 30°    | 826.8  | 833.7  | 847.5  | 861.3  | 876.5  | 897.2  | 933.1  | 978.6  | 1040.7 | 1075.2 | 1115.2 |
| 32.5°  | 785.4  | 796.4  | 804.7  | 814.4  | 830.9  | 855.8  | 880.6  | 924.8  | 974.5  | 1013.1 | 1053.1 |
| 35°    | 750.9  | 755.0  | 766.0  | 777.1  | 788.1  | 810.2  | 836.4  | 879.2  | 923.4  | 953.8  | 989.6  |
| 37.5°  | 713.6  | 720.5  | 728.8  | 732.9  | 750.9  | 764.7  | 792.3  | 825.4  | 877.8  | 897.2  | 933.1  |
| 40°    | 684.6  | 683.2  | 691.5  | 698.4  | 706.7  | 728.8  | 745.3  | 781.2  | 822.6  | 853.0  | 875.1  |
| 42.5°  | 648.7  | 648.7  | 651.5  | 659.8  | 670.8  | 684.6  | 703.9  | 734.3  | 777.1  | 799.2  | 825.4  |
| 45°    | 619.7  | 615.6  | 617.0  | 622.5  | 629.4  | 643.2  | 662.5  | 688.7  | 731.5  | 749.5  | 777.1  |
| 47.5°  | 585.2  | 581.1  | 581.1  | 586.6  | 592.1  | 601.8  | 617.0  | 647.3  | 681.8  | 705.3  | 726.0  |
| 50°    | 546.6  | 548.0  | 546.6  | 550.7  | 553.5  | 563.1  | 579.7  | 604.6  | 636.3  | 655.6  | 679.1  |
| 52.5°  | 510.7  | 507.9  | 506.6  | 509.3  | 514.8  | 521.7  | 539.7  | 561.8  | 592.1  | 611.5  | 632.2  |
| 55°    | 466.5  | 469.3  | 469.3  | 469.3  | 477.6  | 480.3  | 494.1  | 516.2  | 546.6  | 561.8  | 581.1  |
| 57.5°  | 426.5  | 425.1  | 427.9  | 426.5  | 433.4  | 443.1  | 454.1  | 470.7  | 501.0  | 516.2  | 534.2  |
| 60°    | 382.3  | 383.7  | 385.1  | 385.1  | 390.6  | 400.3  | 412.7  | 427.9  | 452.7  | 467.9  | 484.5  |
| 62.5°  | 328.5  | 335.4  | 342.3  | 345.1  | 353.3  | 360.2  | 368.5  | 385.1  | 407.2  | 418.2  | 433.4  |
| 65°    | 277.4  | 287.1  | 296.8  | 303.7  | 309.2  | 316.1  | 327.1  | 342.3  | 360.2  | 371.3  | 386.5  |
| 67.5°  | 233.3  | 240.2  | 252.6  | 259.5  | 270.5  | 278.8  | 285.7  | 298.1  | 320.2  | 324.4  | 336.8  |
| 70°    | 201.5  | 204.3  | 209.8  | 215.3  | 227.7  | 234.6  | 242.9  | 255.3  | 271.9  | 281.6  | 288.5  |
| 72.5°  | 169.8  | 171.2  | 173.9  | 179.4  | 185.0  | 193.2  | 202.9  | 213.9  | 229.1  | 233.3  | 242.9  |
| 75°    | 135.3  | 143.5  | 143.5  | 147.7  | 151.8  | 156.0  | 164.3  | 175.3  | 185.0  | 191.9  | 197.4  |
| 77.5°  | 100.8  | 104.9  | 107.7  | 114.6  | 120.1  | 124.2  | 129.7  | 138.0  | 143.5  | 149.1  | 153.2  |
| 80°    | 78.7   | 80.1   | 81.4   | 81.4   | 84.2   | 89.7   | 95.2   | 100.8  | 107.7  | 110.4  | 114.6  |
| 82.5°  | 58.0   | 58.0   | 58.0   | 60.7   | 62.1   | 63.5   | 63.5   | 66.3   | 73.2   | 75.9   | 80.1   |
| 85°    | 37.3   | 37.3   | 37.3   | 37.3   | 38.6   | 40.0   | 41.4   | 42.8   | 42.8   | 42.8   | 45.5   |
| 87.5°  | 15.2   | 17.9   | 16.6   | 17.9   | 17.9   | 17.9   | 17.9   | 19.3   | 19.3   | 20.7   | 20.7   |
| 90°    | 31.9   | 30.4   | 28.8   | 27.3   | 25.7   | 23.6   | 21.5   | 19.4   | 17.3   | 16.3   | 14.9   |
| 92.5°  | 30.7   | 29.2   | 27.6   | 26.1   | 24.5   | 22.4   | 20.4   | 18.3   | 16.2   | 15.2   | 15.5   |
| 95°    | 31.9   | 30.4   | 28.8   | 27.3   | 25.7   | 25.4   | 25.2   | 24.9   | 24.6   | 24.5   | 28.9   |
| 97.5°  | 30.9   | 29.6   | 28.3   | 27.0   | 25.7   | 52.9   | 80.1   | 107.3  | 134.5  | 148.1  | 145.3  |
| 100°   | 33.7   | 38.1   | 42.5   | 46.9   | 51.3   | 87.1   | 122.8  | 158.6  | 194.3  | 212.2  | 209.9  |
| 102.5° | 63.0   | 121.3  | 179.6  | 237.9  | 296.2  | 293.1  | 290.0  | 286.9  | 283.8  | 282.2  | 280.6  |
| 105°   | 373.2  | 370.9  | 368.6  | 366.2  | 363.9  | 362.6  | 361.3  | 360.0  | 358.7  | 358.0  | 357.2  |
| 107.5° | 443.7  | 442.4  | 441.1  | 439.8  | 438.5  | 436.7  | 434.9  | 433.0  | 431.2  | 430.3  | 429.9  |
| 110°   | 516.3  | 515.8  | 515.3  | 514.8  | 514.3  | 512.7  | 511.2  | 509.6  | 508.1  | 507.3  | 506.9  |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 586.7  | 587.0  | 587.3  | 587.5  | 587.8  | 587.3  | 586.7  | 586.2  | 585.7  | 585.4  | 584.6  |
| 115°   | 659.8  | 659.3  | 658.8  | 658.2  | 657.7  | 658.0  | 658.2  | 658.5  | 658.8  | 658.9  | 658.5  |
| 117.5° | 731.3  | 731.6  | 731.9  | 732.1  | 732.4  | 731.6  | 730.8  | 730.1  | 729.3  | 728.9  | 728.4  |
| 120°   | 799.7  | 799.2  | 798.7  | 798.2  | 797.7  | 798.0  | 798.2  | 798.5  | 798.8  | 798.9  | 798.4  |
| 122.5° | 865.2  | 864.9  | 864.7  | 864.4  | 864.2  | 863.7  | 863.1  | 862.6  | 862.1  | 861.8  | 861.5  |
| 125°   | 926.7  | 925.9  | 925.2  | 924.4  | 923.6  | 924.1  | 924.7  | 925.2  | 925.7  | 926.0  | 925.5  |
| 127.5° | 986.7  | 987.0  | 987.3  | 987.5  | 987.8  | 986.5  | 985.2  | 983.9  | 982.6  | 981.9  | 981.8  |
| 130°   | 1043.7 | 1043.4 | 1043.1 | 1042.9 | 1042.6 | 1041.8 | 1041.0 | 1040.3 | 1039.5 | 1039.1 | 1039.0 |
| 132.5° | 1098.5 | 1098.2 | 1097.9 | 1097.7 | 1097.4 | 1096.4 | 1095.3 | 1094.3 | 1093.2 | 1092.7 | 1092.4 |
| 135°   | 1148.4 | 1147.9 | 1147.4 | 1146.9 | 1146.4 | 1145.4 | 1144.3 | 1143.3 | 1142.2 | 1141.7 | 1141.8 |
| 137.5° | 1197.4 | 1196.9 | 1196.4 | 1195.9 | 1195.4 | 1194.1 | 1192.8 | 1191.5 | 1190.2 | 1189.5 | 1189.5 |
| 140°   | 1242.8 | 1242.0 | 1241.3 | 1240.5 | 1239.7 | 1239.2 | 1238.6 | 1238.1 | 1237.6 | 1237.3 | 1237.0 |
| 142.5° | 1283.7 | 1283.2 | 1282.7 | 1282.2 | 1281.7 | 1281.4 | 1281.2 | 1280.9 | 1280.6 | 1280.5 | 1280.0 |
| 145°   | 1322.4 | 1322.1 | 1321.8 | 1321.6 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1321.3 | 1320.9 |
| 147.5° | 1357.4 | 1357.1 | 1356.8 | 1356.6 | 1356.3 | 1356.6 | 1356.8 | 1357.1 | 1357.4 | 1357.5 | 1356.7 |
| 150°   | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.4 | 1390.6 | 1390.9 | 1391.2 | 1391.3 | 1390.8 |
| 152.5° | 1420.1 | 1419.6 | 1419.1 | 1418.6 | 1418.1 | 1418.6 | 1419.1 | 1419.6 | 1420.1 | 1420.4 | 1420.0 |
| 155°   | 1446.8 | 1445.7 | 1444.7 | 1443.6 | 1442.6 | 1443.4 | 1444.2 | 1444.9 | 1445.7 | 1446.1 | 1446.0 |
| 157.5° | 1470.0 | 1468.7 | 1467.4 | 1466.1 | 1464.8 | 1465.8 | 1466.8 | 1467.9 | 1468.9 | 1469.4 | 1469.4 |
| 160°   | 1491.9 | 1490.4 | 1488.8 | 1487.3 | 1485.7 | 1486.0 | 1486.2 | 1486.5 | 1486.8 | 1486.9 | 1487.3 |
| 162.5° | 1509.4 | 1507.9 | 1506.3 | 1504.8 | 1503.2 | 1503.5 | 1503.7 | 1504.0 | 1504.3 | 1504.4 | 1504.9 |
| 165°   | 1526.7 | 1524.6 | 1522.5 | 1520.5 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1518.4 | 1519.0 |
| 167.5° | 1539.4 | 1537.1 | 1534.8 | 1532.4 | 1530.1 | 1530.3 | 1530.6 | 1530.8 | 1531.1 | 1531.2 | 1531.9 |
| 170°   | 1550.1 | 1548.0 | 1545.9 | 1543.8 | 1541.7 | 1541.5 | 1541.2 | 1541.0 | 1540.7 | 1540.6 | 1541.4 |
| 172.5° | 1557.1 | 1555.0 | 1552.9 | 1550.8 | 1548.7 | 1548.5 | 1548.2 | 1548.0 | 1547.7 | 1547.6 | 1548.4 |
| 175°   | 1562.7 | 1560.4 | 1558.1 | 1555.7 | 1553.4 | 1553.1 | 1552.9 | 1552.6 | 1552.3 | 1552.2 | 1553.0 |
| 177.5° | 1565.2 | 1563.1 | 1561.0 | 1559.0 | 1556.9 | 1556.4 | 1555.9 | 1555.4 | 1554.9 | 1554.6 | 1555.5 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°   | 1674.2 | 1682.5 | 1696.3 | 1715.7 |
| 5°     | 1635.6 | 1659.1 | 1681.2 | 1710.1 |
| 7.5°   | 1601.1 | 1628.7 | 1659.1 | 1700.5 |
| 10°    | 1561.1 | 1595.6 | 1634.2 | 1685.3 |
| 12.5°  | 1514.1 | 1562.4 | 1606.6 | 1661.8 |
| 15°    | 1479.6 | 1515.5 | 1572.1 | 1637.0 |
| 17.5°  | 1431.3 | 1479.6 | 1536.2 | 1609.4 |
| 20°    | 1385.8 | 1436.8 | 1500.3 | 1576.3 |
| 22.5°  | 1337.5 | 1395.4 | 1458.9 | 1540.4 |
| 25°    | 1287.8 | 1349.9 | 1413.4 | 1500.3 |
| 27.5°  | 1242.2 | 1298.8 | 1370.6 | 1458.9 |
| 30°    | 1187.0 | 1251.9 | 1320.9 | 1413.4 |
| 32.5°  | 1133.2 | 1200.8 | 1271.2 | 1363.7 |
| 35°    | 1075.2 | 1142.9 | 1220.1 | 1308.5 |
| 37.5°  | 1018.6 | 1093.2 | 1163.6 | 1249.1 |
| 40°    | 956.5  | 1033.8 | 1107.0 | 1193.9 |
| 42.5°  | 895.8  | 975.8  | 1049.0 | 1123.5 |
| 45°    | 839.2  | 917.9  | 984.1  | 1054.5 |
| 47.5°  | 785.4  | 855.8  | 923.4  | 986.9  |
| 50°    | 732.9  | 792.3  | 854.4  | 906.8  |
| 52.5°  | 677.7  | 734.3  | 784.0  | 830.9  |
| 55°    | 628.0  | 672.2  | 716.4  | 759.1  |
| 57.5°  | 568.7  | 612.8  | 651.5  | 684.6  |
| 60°    | 519.0  | 546.6  | 583.8  | 618.4  |
| 62.5°  | 462.4  | 494.1  | 523.1  | 545.2  |
| 65°    | 407.2  | 434.8  | 456.9  | 476.2  |
| 67.5°  | 360.2  | 376.8  | 393.4  | 414.1  |
| 70°    | 303.7  | 317.5  | 336.8  | 352.0  |
| 72.5°  | 255.3  | 266.4  | 276.1  | 294.0  |
| 75°    | 207.0  | 216.7  | 222.2  | 238.8  |
| 77.5°  | 160.1  | 169.8  | 173.9  | 183.6  |
| 80°    | 122.8  | 124.2  | 129.7  | 138.0  |
| 82.5°  | 84.2   | 87.0   | 88.3   | 95.2   |
| 85°    | 48.3   | 55.2   | 53.8   | 56.6   |
| 87.5°  | 20.7   | 22.1   | 24.8   | 27.6   |
| 90°    | 12.0   | 9.2    | 6.3    | 3.5    |
| 92.5°  | 16.0   | 16.5   | 17.0   | 17.5   |
| 95°    | 37.7   | 46.5   | 55.3   | 64.1   |
| 97.5°  | 139.6  | 133.9  | 128.2  | 122.5  |
| 100°   | 205.2  | 200.6  | 195.9  | 191.3  |
| 102.5° | 277.5  | 274.4  | 271.3  | 268.2  |
| 105°   | 355.7  | 354.1  | 352.6  | 351.0  |
| 107.5° | 429.1  | 428.4  | 427.6  | 426.8  |
| 110°   | 506.1  | 505.4  | 504.6  | 503.8  |



TEST NUMBER: P1013216

CATALOG NUMBER: S124RDIP-B1020D1205UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 583.1  | 581.5  | 580.0  | 578.4  |
| 115°   | 657.7  | 657.0  | 656.2  | 655.4  |
| 117.5° | 727.3  | 726.3  | 725.2  | 724.2  |
| 120°   | 797.3  | 796.3  | 795.2  | 794.2  |
| 122.5° | 861.0  | 860.5  | 860.0  | 859.5  |
| 125°   | 924.4  | 923.4  | 922.3  | 921.3  |
| 127.5° | 981.5  | 981.3  | 981.0  | 980.8  |
| 130°   | 1038.7 | 1038.4 | 1038.2 | 1037.9 |
| 132.5° | 1091.9 | 1091.4 | 1090.9 | 1090.4 |
| 135°   | 1142.1 | 1142.4 | 1142.6 | 1142.9 |
| 137.5° | 1189.5 | 1189.5 | 1189.5 | 1189.5 |
| 140°   | 1236.5 | 1236.0 | 1235.5 | 1235.0 |
| 142.5° | 1278.9 | 1277.9 | 1276.8 | 1275.8 |
| 145°   | 1320.1 | 1319.4 | 1318.6 | 1317.8 |
| 147.5° | 1355.2 | 1353.6 | 1352.1 | 1350.5 |
| 150°   | 1389.7 | 1388.7 | 1387.6 | 1386.6 |
| 152.5° | 1419.2 | 1418.5 | 1417.7 | 1416.9 |
| 155°   | 1445.7 | 1445.4 | 1445.2 | 1444.9 |
| 157.5° | 1469.4 | 1469.4 | 1469.4 | 1469.4 |
| 160°   | 1488.1 | 1488.8 | 1489.6 | 1490.4 |
| 162.5° | 1506.0 | 1507.0 | 1508.1 | 1509.1 |
| 165°   | 1520.3 | 1521.6 | 1522.9 | 1524.2 |
| 167.5° | 1533.2 | 1534.5 | 1535.8 | 1537.1 |
| 170°   | 1542.9 | 1544.5 | 1546.0 | 1547.6 |
| 172.5° | 1549.9 | 1551.5 | 1553.0 | 1554.6 |
| 175°   | 1554.5 | 1556.1 | 1557.6 | 1559.2 |
| 177.5° | 1557.3 | 1559.1 | 1560.9 | 1562.7 |
| 180°   | 1559.2 | 1559.2 | 1559.2 | 1559.2 |

(END OF REPORT)