

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: P1012846

Luminaire Tested: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1012846  
REPORT IS A COMBINATION OF REPORTS P995130 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

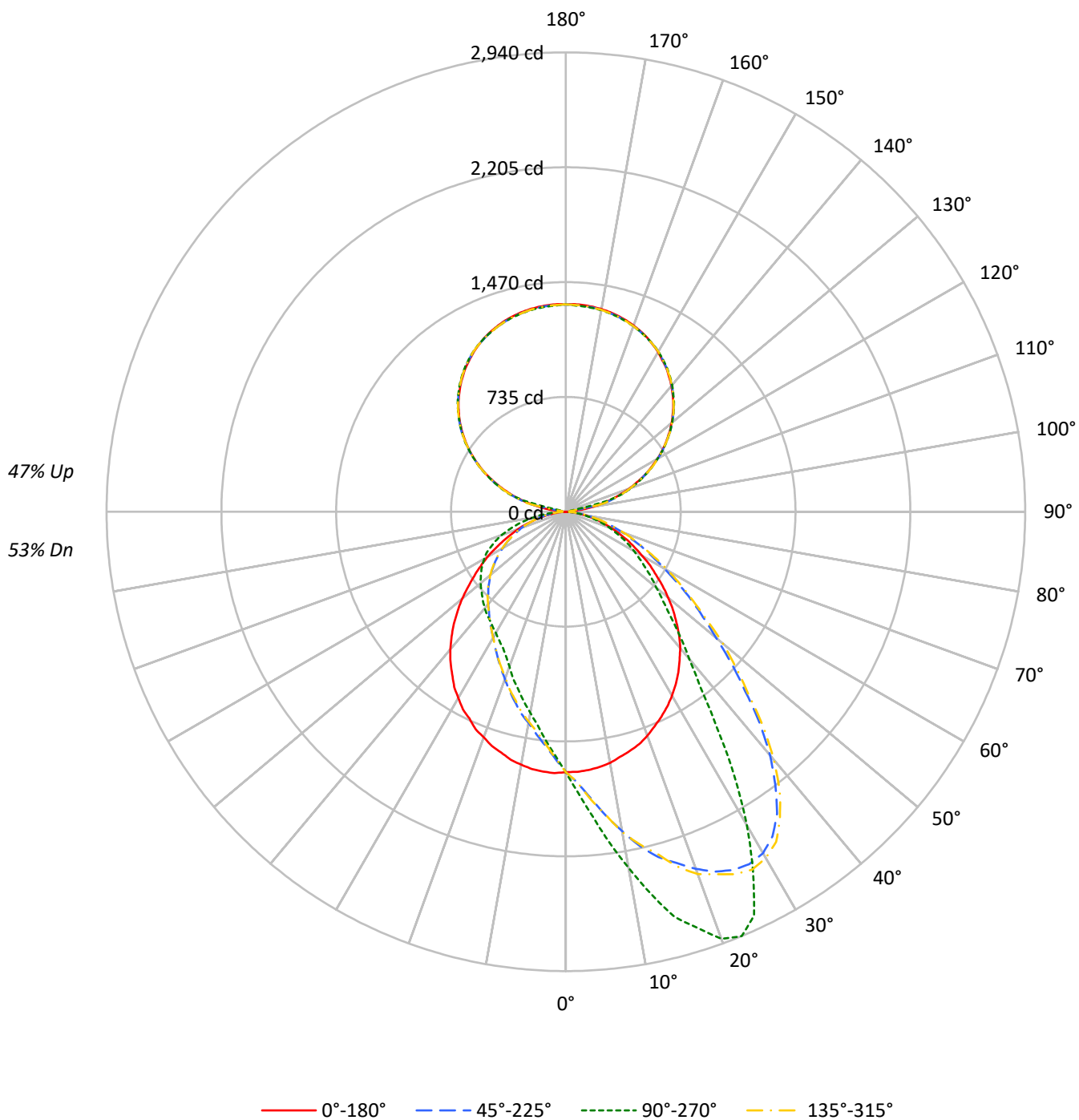
Lumens per Lamp: N/A  
Luminaire Lumens: 8706.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
Input Voltage (V):  
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: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1012846

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 |
| 1   | 99  | 94  | 91  | 87  | 91  | 88  | 84  | 81  | 75 | 72 | 70 | 63 | 61 | 60 | 52 | 51 | 50 |
| 2   | 90  | 83  | 77  | 72  | 83  | 77  | 72  | 67  | 66 | 62 | 59 | 56 | 53 | 50 | 46 | 44 | 43 |
| 3   | 82  | 73  | 66  | 60  | 76  | 68  | 61  | 56  | 58 | 53 | 49 | 49 | 46 | 43 | 41 | 39 | 36 |
| 4   | 75  | 65  | 57  | 51  | 70  | 60  | 53  | 48  | 52 | 47 | 42 | 44 | 40 | 37 | 37 | 34 | 32 |
| 5   | 69  | 58  | 50  | 44  | 64  | 54  | 47  | 41  | 47 | 41 | 37 | 40 | 36 | 32 | 33 | 30 | 28 |
| 6   | 64  | 52  | 44  | 38  | 59  | 49  | 41  | 36  | 42 | 36 | 32 | 36 | 32 | 28 | 30 | 27 | 24 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 32  | 38 | 33 | 28 | 33 | 28 | 25 | 28 | 24 | 22 |
| 8   | 55  | 43  | 35  | 30  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 30 | 26 | 22 | 26 | 22 | 20 |
| 9   | 51  | 39  | 32  | 26  | 47  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 18 |
| 10  | 48  | 36  | 29  | 24  | 44  | 34  | 27  | 23  | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 13585 | 13585 | 13585 | 13585 |
| 5°  | 13550 | 15585 | 13630 | 11711 |
| 10° | 13449 | 18182 | 13551 | 10274 |
| 15° | 13288 | 20961 | 13380 | 9193  |
| 20° | 13115 | 22729 | 13211 | 8242  |
| 25° | 12865 | 22470 | 12988 | 7541  |
| 30° | 12619 | 18571 | 12773 | 7179  |
| 35° | 12274 | 13839 | 12409 | 6960  |
| 40° | 11872 | 10425 | 11987 | 6852  |
| 45° | 11259 | 8368  | 11398 | 6706  |
| 50° | 10525 | 7050  | 10678 | 6638  |
| 55° | 9662  | 6135  | 9815  | 6560  |
| 60° | 8824  | 5403  | 9084  | 6451  |
| 65° | 8038  | 4649  | 8115  | 6182  |
| 70° | 7112  | 3825  | 7266  | 5692  |
| 75° | 6204  | 2939  | 6164  | 4836  |
| 80° | 4882  | 1931  | 4824  | 3672  |
| 85° | 3216  | 868   | 3013  | 2140  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 17565 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.1  | 1.9       |
| 10°-20°   | 500.4  | 5.7       |
| 20°-30°   | 795.0  | 9.1       |
| 30°-40°   | 883.4  | 10.1      |
| 40°-50°   | 803.4  | 9.2       |
| 50°-60°   | 656.5  | 7.5       |
| 60°-70°   | 468.6  | 5.4       |
| 70°-80°   | 257.9  | 3.0       |
| 80°-90°   | 72.4   | 0.8       |
| 90°-100°  | 44.0   | 0.5       |
| 100°-110° | 290.1  | 3.3       |
| 110°-120° | 553.9  | 6.4       |
| 120°-130° | 703.2  | 8.1       |
| 130°-140° | 752.3  | 8.6       |
| 140°-150° | 703.4  | 8.1       |
| 150°-160° | 567.3  | 6.5       |
| 160°-170° | 365.8  | 4.2       |
| 170°-180° | 126.1  | 1.4       |
| 0°-30°    | 1457.6 | 16.7      |
| 0°-40°    | 2341.0 | 26.9      |
| 0°-60°    | 3800.8 | 43.7      |
| 0°-90°    | 4599.7 | 52.8      |
| 90°-120°  | 888.1  | 10.2      |
| 90°-150°  | 3047.1 | 35.0      |
| 90°-180°  | 4106.0 | 47.2      |
| 0°-180°   | 8706.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1666 | 1666 | 1666 | 1666 | 1666 |      |
| 5°   | 1659 | 1954 | 1669 | 1469 | 1659 | 157  |
| 15°  | 1584 | 2684 | 1596 | 1177 | 1584 | 447  |
| 25°  | 1446 | 2850 | 1460 | 956  | 1446 | 667  |
| 35°  | 1255 | 1685 | 1268 | 848  | 1255 | 784  |
| 45°  | 1001 | 946  | 1013 | 758  | 1001 | 772  |
| 55°  | 704  | 618  | 715  | 661  | 704  | 633  |
| 65°  | 439  | 398  | 443  | 529  | 439  | 433  |
| 75°  | 215  | 199  | 214  | 327  | 215  | 226  |
| 85°  | 44   | 41   | 41   | 102  | 44   | 51   |
| 90°  | 3    | 30   | 3    | 30   | 3    | 6    |
| 95°  | 55   | 29   | 55   | 29   | 55   | 67   |
| 105° | 299  | 283  | 299  | 283  | 299  | 313  |
| 115° | 558  | 562  | 558  | 562  | 558  | 549  |
| 125° | 784  | 790  | 784  | 790  | 784  | 700  |
| 135° | 973  | 980  | 973  | 980  | 973  | 750  |
| 145° | 1122 | 1128 | 1122 | 1128 | 1122 | 701  |
| 155° | 1230 | 1229 | 1230 | 1229 | 1230 | 567  |
| 165° | 1297 | 1291 | 1297 | 1291 | 1297 | 367  |
| 175° | 1327 | 1319 | 1327 | 1319 | 1327 | 126  |
| 180° | 1327 | 1327 | 1327 | 1327 | 1327 |      |

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CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1665.9 | 1682.5 | 1689.4 | 1694.9 | 1712.9 | 1718.4 | 1719.8 | 1728.0 | 1734.9 | 1736.3 | 1736.3 |
| 5°     | 1659.0 | 1685.2 | 1706.0 | 1725.3 | 1754.3 | 1766.7 | 1781.9 | 1798.4 | 1820.5 | 1834.3 | 1841.2 |
| 7.5°   | 1648.0 | 1686.6 | 1718.4 | 1751.5 | 1791.5 | 1816.4 | 1830.2 | 1874.3 | 1904.7 | 1929.5 | 1959.9 |
| 10°    | 1631.4 | 1681.1 | 1726.7 | 1775.0 | 1831.6 | 1861.9 | 1892.3 | 1946.1 | 1988.9 | 2037.2 | 2075.9 |
| 12.5°  | 1606.6 | 1671.4 | 1726.7 | 1794.3 | 1864.7 | 1900.6 | 1936.4 | 2030.3 | 2080.0 | 2122.8 | 2191.8 |
| 15°    | 1584.5 | 1649.4 | 1728.0 | 1797.0 | 1884.0 | 1937.8 | 1990.3 | 2051.0 | 2129.7 | 2222.2 | 2288.4 |
| 17.5°  | 1559.6 | 1641.1 | 1714.2 | 1810.8 | 1907.5 | 1958.5 | 2001.3 | 2095.2 | 2205.6 | 2296.7 | 2357.4 |
| 20°    | 1525.1 | 1608.0 | 1704.6 | 1806.7 | 1921.3 | 1961.3 | 2017.9 | 2143.5 | 2242.9 | 2332.6 | 2431.9 |
| 22.5°  | 1485.1 | 1581.7 | 1683.9 | 1781.9 | 1900.6 | 1984.8 | 2046.9 | 2157.3 | 2277.4 | 2380.9 | 2492.7 |
| 25°    | 1446.5 | 1551.4 | 1641.1 | 1775.0 | 1900.6 | 1957.2 | 2027.5 | 2158.7 | 2289.8 | 2415.4 | 2529.9 |
| 27.5°  | 1405.1 | 1503.1 | 1624.5 | 1730.8 | 1873.0 | 1935.1 | 2011.0 | 2154.5 | 2293.9 | 2419.5 | 2542.4 |
| 30°    | 1359.5 | 1464.4 | 1565.2 | 1690.8 | 1828.8 | 1908.8 | 1979.2 | 2135.2 | 2277.4 | 2408.5 | 2523.0 |
| 32.5°  | 1308.4 | 1407.8 | 1515.5 | 1634.2 | 1779.1 | 1860.5 | 1948.9 | 2109.0 | 2260.8 | 2374.0 | 2462.3 |
| 35°    | 1254.6 | 1355.4 | 1449.2 | 1570.7 | 1719.8 | 1801.2 | 1886.8 | 2063.4 | 2213.9 | 2306.3 | 2357.4 |
| 37.5°  | 1195.3 | 1290.5 | 1383.0 | 1503.1 | 1652.1 | 1739.1 | 1826.0 | 1997.2 | 2139.3 | 2216.6 | 2202.8 |
| 40°    | 1138.7 | 1224.3 | 1309.8 | 1423.0 | 1579.0 | 1671.4 | 1747.4 | 1919.9 | 2044.1 | 2077.2 | 2031.7 |
| 42.5°  | 1073.8 | 1147.0 | 1229.8 | 1345.7 | 1497.5 | 1584.5 | 1679.7 | 1837.1 | 1929.5 | 1915.7 | 1838.5 |
| 45°    | 1000.7 | 1065.5 | 1148.3 | 1257.4 | 1412.0 | 1501.7 | 1581.7 | 1730.8 | 1798.4 | 1763.9 | 1623.1 |
| 47.5°  | 930.3  | 993.8  | 1061.4 | 1170.4 | 1320.9 | 1396.8 | 1478.2 | 1612.1 | 1650.7 | 1577.6 | 1436.8 |
| 50°    | 854.4  | 906.8  | 977.2  | 1080.7 | 1221.5 | 1301.5 | 1369.2 | 1476.8 | 1490.6 | 1400.9 | 1254.6 |
| 52.5°  | 781.2  | 825.4  | 893.0  | 995.1  | 1126.3 | 1189.7 | 1256.0 | 1351.2 | 1340.2 | 1247.7 | 1106.9 |
| 55°    | 703.9  | 745.3  | 807.4  | 901.3  | 1017.2 | 1078.0 | 1134.5 | 1218.7 | 1195.3 | 1100.0 | 977.2  |
| 57.5°  | 639.0  | 668.0  | 728.8  | 815.7  | 910.9  | 977.2  | 1025.5 | 1091.8 | 1055.9 | 960.6  | 846.1  |
| 60°    | 564.5  | 600.4  | 651.5  | 721.9  | 815.7  | 859.9  | 902.7  | 946.8  | 922.0  | 830.9  | 728.8  |
| 62.5°  | 496.9  | 524.5  | 568.7  | 636.3  | 709.4  | 749.5  | 795.0  | 822.6  | 797.8  | 713.6  | 628.0  |
| 65°    | 438.9  | 461.0  | 495.5  | 550.7  | 621.1  | 654.2  | 680.4  | 706.7  | 686.0  | 607.3  | 545.2  |
| 67.5°  | 375.4  | 394.7  | 423.7  | 467.9  | 527.2  | 550.7  | 575.6  | 593.5  | 570.0  | 517.6  | 456.9  |
| 70°    | 318.8  | 332.6  | 360.2  | 393.4  | 434.8  | 456.9  | 477.6  | 495.5  | 474.8  | 430.6  | 385.1  |
| 72.5°  | 260.9  | 271.9  | 296.7  | 320.2  | 357.5  | 372.7  | 387.8  | 401.6  | 394.7  | 353.3  | 316.1  |
| 75°    | 215.3  | 219.5  | 236.0  | 255.3  | 278.8  | 295.4  | 306.4  | 314.7  | 309.2  | 276.0  | 252.6  |
| 77.5°  | 162.9  | 168.4  | 180.8  | 196.0  | 216.7  | 226.4  | 233.3  | 241.5  | 234.6  | 208.4  | 191.9  |
| 80°    | 118.7  | 120.1  | 127.0  | 140.8  | 154.6  | 156.0  | 162.9  | 173.9  | 169.8  | 151.8  | 139.4  |
| 82.5°  | 75.9   | 80.1   | 82.8   | 91.1   | 100.8  | 103.5  | 107.7  | 110.4  | 109.0  | 98.0   | 93.9   |
| 85°    | 44.2   | 44.2   | 46.9   | 52.4   | 55.2   | 59.3   | 60.7   | 62.1   | 64.9   | 58.0   | 53.8   |
| 87.5°  | 19.3   | 20.7   | 20.7   | 22.1   | 24.8   | 24.8   | 26.2   | 27.6   | 29.0   | 27.6   | 23.5   |
| 90°    | 3.0    | 5.4    | 7.8    | 10.3   | 12.7   | 13.9   | 14.8   | 16.5   | 18.3   | 20.0   | 21.8   |
| 92.5°  | 14.9   | 14.5   | 14.0   | 13.6   | 13.1   | 12.9   | 13.8   | 15.5   | 17.3   | 19.0   | 20.8   |
| 95°    | 54.6   | 47.1   | 39.6   | 32.1   | 24.6   | 20.8   | 20.9   | 21.1   | 21.4   | 21.6   | 21.8   |
| 97.5°  | 104.2  | 109.1  | 113.9  | 118.8  | 123.7  | 126.1  | 114.5  | 91.3   | 68.2   | 45.0   | 21.8   |
| 100°   | 162.8  | 166.8  | 170.7  | 174.7  | 178.6  | 180.6  | 165.4  | 135.0  | 104.5  | 74.1   | 43.7   |
| 102.5° | 228.3  | 230.9  | 233.6  | 236.2  | 238.9  | 240.2  | 241.5  | 244.2  | 246.8  | 249.5  | 252.1  |
| 105°   | 298.8  | 300.1  | 301.4  | 302.7  | 304.0  | 304.7  | 305.3  | 306.4  | 307.5  | 308.6  | 309.7  |
| 107.5° | 363.3  | 363.9  | 364.6  | 365.2  | 365.9  | 366.2  | 367.0  | 368.5  | 370.1  | 371.6  | 373.2  |
| 110°   | 428.8  | 429.5  | 430.1  | 430.8  | 431.5  | 431.8  | 432.5  | 433.8  | 435.1  | 436.4  | 437.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.3  | 493.6  | 495.0  | 496.3  | 497.6  | 498.3  | 498.5  | 498.9  | 499.4  | 499.8  | 500.2  |
| 115°   | 557.8  | 558.5  | 559.1  | 559.8  | 560.5  | 560.8  | 560.7  | 560.5  | 560.2  | 560.0  | 559.8  |
| 117.5° | 616.4  | 617.3  | 618.1  | 619.0  | 619.9  | 620.3  | 620.6  | 621.3  | 622.0  | 622.6  | 623.3  |
| 120°   | 675.9  | 676.8  | 677.7  | 678.6  | 679.5  | 679.9  | 679.8  | 679.6  | 679.3  | 679.1  | 678.9  |
| 122.5° | 731.5  | 731.9  | 732.4  | 732.8  | 733.3  | 733.5  | 733.7  | 734.2  | 734.6  | 735.1  | 735.5  |
| 125°   | 784.1  | 785.0  | 785.9  | 786.8  | 787.7  | 788.1  | 787.9  | 787.4  | 787.0  | 786.5  | 786.1  |
| 127.5° | 834.7  | 834.9  | 835.1  | 835.4  | 835.6  | 835.7  | 836.3  | 837.4  | 838.5  | 839.6  | 840.7  |
| 130°   | 883.4  | 883.6  | 883.8  | 884.0  | 884.2  | 884.3  | 884.6  | 885.3  | 886.0  | 886.6  | 887.3  |
| 132.5° | 928.0  | 928.4  | 928.9  | 929.3  | 929.8  | 930.0  | 930.4  | 931.3  | 932.2  | 933.1  | 934.0  |
| 135°   | 972.7  | 972.5  | 972.3  | 972.0  | 971.8  | 971.7  | 972.1  | 973.0  | 973.9  | 974.8  | 975.7  |
| 137.5° | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.9 | 1014.0 | 1015.1 | 1016.2 | 1017.3 |
| 140°   | 1051.1 | 1051.5 | 1052.0 | 1052.4 | 1052.9 | 1053.1 | 1053.3 | 1053.8 | 1054.2 | 1054.7 | 1055.1 |
| 142.5° | 1085.8 | 1086.7 | 1087.6 | 1088.5 | 1089.4 | 1089.8 | 1089.9 | 1090.1 | 1090.4 | 1090.6 | 1090.8 |
| 145°   | 1121.6 | 1122.2 | 1122.9 | 1123.5 | 1124.2 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 |
| 147.5° | 1149.4 | 1150.7 | 1152.0 | 1153.3 | 1154.6 | 1155.3 | 1155.2 | 1155.0 | 1154.7 | 1154.5 | 1154.3 |
| 150°   | 1180.1 | 1181.0 | 1181.9 | 1182.8 | 1183.7 | 1184.1 | 1184.0 | 1183.8 | 1183.5 | 1183.3 | 1183.1 |
| 152.5° | 1205.9 | 1206.6 | 1207.2 | 1207.9 | 1208.6 | 1208.9 | 1208.7 | 1208.2 | 1207.8 | 1207.3 | 1206.9 |
| 155°   | 1229.7 | 1229.9 | 1230.1 | 1230.4 | 1230.6 | 1230.7 | 1230.4 | 1229.7 | 1229.1 | 1228.4 | 1227.8 |
| 157.5° | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.2 | 1249.3 | 1248.4 | 1247.5 | 1246.6 |
| 160°   | 1268.5 | 1267.8 | 1267.2 | 1266.5 | 1265.8 | 1265.5 | 1265.4 | 1265.2 | 1264.9 | 1264.7 | 1264.5 |
| 162.5° | 1284.3 | 1283.4 | 1282.6 | 1281.7 | 1280.8 | 1280.4 | 1280.3 | 1280.1 | 1279.8 | 1279.6 | 1279.4 |
| 165°   | 1297.2 | 1296.1 | 1295.0 | 1293.9 | 1292.8 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.3 |
| 167.5° | 1308.2 | 1307.1 | 1306.0 | 1304.9 | 1303.8 | 1303.2 | 1303.1 | 1302.9 | 1302.6 | 1302.4 | 1302.2 |
| 170°   | 1317.1 | 1315.8 | 1314.4 | 1313.1 | 1311.8 | 1311.1 | 1311.2 | 1311.4 | 1311.7 | 1311.9 | 1312.1 |
| 172.5° | 1323.0 | 1321.7 | 1320.4 | 1319.1 | 1317.8 | 1317.1 | 1317.2 | 1317.4 | 1317.7 | 1317.9 | 1318.1 |
| 175°   | 1327.0 | 1325.7 | 1324.4 | 1323.1 | 1321.8 | 1321.1 | 1321.2 | 1321.4 | 1321.7 | 1321.9 | 1322.1 |
| 177.5° | 1330.0 | 1328.4 | 1326.9 | 1325.3 | 1323.8 | 1323.0 | 1323.2 | 1323.7 | 1324.1 | 1324.6 | 1325.0 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

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CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1740.5 | 1765.3 | 1776.3 | 1779.1 | 1794.3 | 1784.6 | 1788.8 | 1787.4 | 1798.4 | 1799.8 | 1799.8 |
| 5°     | 1867.4 | 1896.4 | 1906.1 | 1919.9 | 1940.6 | 1946.1 | 1942.0 | 1950.3 | 1965.4 | 1954.4 | 1971.0 |
| 7.5°   | 2001.3 | 2033.1 | 2055.1 | 2085.5 | 2092.4 | 2110.4 | 2121.4 | 2131.1 | 2133.8 | 2135.2 | 2138.0 |
| 10°    | 2125.5 | 2165.6 | 2195.9 | 2247.0 | 2258.0 | 2267.7 | 2316.0 | 2296.7 | 2321.5 | 2313.2 | 2316.0 |
| 12.5°  | 2226.3 | 2305.0 | 2329.8 | 2415.4 | 2423.7 | 2456.8 | 2454.0 | 2484.4 | 2489.9 | 2501.0 | 2489.9 |
| 15°    | 2358.8 | 2449.9 | 2489.9 | 2538.2 | 2565.8 | 2604.5 | 2611.4 | 2652.8 | 2669.3 | 2684.5 | 2669.3 |
| 17.5°  | 2480.3 | 2528.6 | 2630.7 | 2669.3 | 2687.3 | 2708.0 | 2760.4 | 2775.6 | 2800.5 | 2790.8 | 2818.4 |
| 20°    | 2541.0 | 2610.0 | 2717.7 | 2783.9 | 2811.5 | 2830.8 | 2875.0 | 2898.5 | 2908.1 | 2908.1 | 2910.9 |
| 22.5°  | 2594.8 | 2694.2 | 2774.2 | 2850.2 | 2875.0 | 2888.8 | 2915.0 | 2933.0 | 2937.1 | 2939.9 | 2942.6 |
| 25°    | 2643.1 | 2732.8 | 2797.7 | 2840.5 | 2850.2 | 2850.2 | 2865.3 | 2854.3 | 2836.4 | 2850.2 | 2858.4 |
| 27.5°  | 2643.1 | 2706.6 | 2735.6 | 2750.8 | 2750.8 | 2713.5 | 2691.4 | 2645.9 | 2607.2 | 2596.2 | 2621.0 |
| 30°    | 2599.0 | 2627.9 | 2587.9 | 2550.6 | 2521.7 | 2496.8 | 2409.9 | 2340.9 | 2327.1 | 2317.4 | 2354.7 |
| 32.5°  | 2496.8 | 2459.6 | 2380.9 | 2273.2 | 2230.4 | 2173.8 | 2106.2 | 2053.8 | 2022.0 | 2011.0 | 2002.7 |
| 35°    | 2316.0 | 2219.4 | 2117.3 | 1972.3 | 1942.0 | 1870.2 | 1777.7 | 1739.1 | 1686.6 | 1685.2 | 1703.2 |
| 37.5°  | 2118.6 | 1969.6 | 1859.2 | 1721.1 | 1678.3 | 1602.4 | 1515.5 | 1475.5 | 1439.6 | 1412.0 | 1445.1 |
| 40°    | 1888.1 | 1758.4 | 1590.0 | 1476.8 | 1416.1 | 1376.1 | 1302.9 | 1258.8 | 1242.2 | 1228.4 | 1249.1 |
| 42.5°  | 1672.8 | 1530.7 | 1399.5 | 1283.6 | 1233.9 | 1188.4 | 1140.1 | 1097.3 | 1084.9 | 1083.5 | 1098.7 |
| 45°    | 1458.9 | 1319.5 | 1198.0 | 1098.7 | 1066.9 | 1039.3 | 992.4  | 980.0  | 959.3  | 945.5  | 952.4  |
| 47.5°  | 1287.7 | 1144.2 | 1043.4 | 967.5  | 939.9  | 916.5  | 886.1  | 865.4  | 847.5  | 841.9  | 850.2  |
| 50°    | 1119.4 | 1022.7 | 919.2  | 855.7  | 835.0  | 812.9  | 789.5  | 770.2  | 761.9  | 756.4  | 761.9  |
| 52.5°  | 984.1  | 880.6  | 810.2  | 759.1  | 738.4  | 721.9  | 705.3  | 697.0  | 686.0  | 688.7  | 694.3  |
| 55°    | 862.6  | 771.5  | 712.2  | 674.9  | 662.5  | 655.6  | 634.9  | 625.2  | 621.1  | 618.3  | 621.1  |
| 57.5°  | 748.1  | 681.8  | 637.7  | 605.9  | 589.4  | 585.2  | 568.7  | 568.7  | 564.5  | 560.4  | 561.7  |
| 60°    | 657.0  | 600.4  | 557.6  | 532.8  | 530.0  | 523.1  | 512.1  | 510.7  | 501.0  | 505.2  | 506.5  |
| 62.5°  | 564.5  | 519.0  | 490.0  | 474.8  | 465.1  | 462.4  | 455.5  | 454.1  | 450.0  | 451.3  | 448.6  |
| 65°    | 491.4  | 454.1  | 425.1  | 412.7  | 408.5  | 407.2  | 401.6  | 397.5  | 394.7  | 397.5  | 394.7  |
| 67.5°  | 418.2  | 393.4  | 371.3  | 358.9  | 353.3  | 352.0  | 347.8  | 345.1  | 346.4  | 342.3  | 345.1  |
| 70°    | 349.2  | 324.4  | 310.5  | 303.6  | 300.9  | 296.7  | 296.7  | 296.7  | 296.7  | 294.0  | 292.6  |
| 72.5°  | 294.0  | 269.1  | 259.5  | 255.3  | 252.6  | 251.2  | 247.1  | 248.4  | 247.1  | 245.7  | 251.2  |
| 75°    | 233.3  | 218.1  | 208.4  | 204.3  | 207.0  | 202.9  | 198.8  | 201.5  | 197.4  | 198.8  | 204.3  |
| 77.5°  | 176.7  | 169.8  | 164.2  | 161.5  | 158.7  | 156.0  | 156.0  | 153.2  | 153.2  | 153.2  | 153.2  |
| 80°    | 128.4  | 127.0  | 117.3  | 115.9  | 115.9  | 113.2  | 113.2  | 113.2  | 113.2  | 111.8  | 113.2  |
| 82.5°  | 85.6   | 84.2   | 81.4   | 80.1   | 77.3   | 78.7   | 78.7   | 75.9   | 75.9   | 74.5   | 75.9   |
| 85°    | 49.7   | 49.7   | 46.9   | 45.5   | 44.2   | 45.5   | 42.8   | 41.4   | 42.8   | 41.4   | 42.8   |
| 87.5°  | 23.5   | 20.7   | 22.1   | 20.7   | 17.9   | 19.3   | 16.6   | 17.9   | 16.6   | 15.2   | 17.9   |
| 90°    | 23.1   | 24.5   | 25.8   | 27.1   | 27.8   | 28.0   | 28.5   | 28.9   | 29.4   | 29.8   | 29.4   |
| 92.5°  | 22.1   | 23.5   | 24.8   | 26.1   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   |
| 95°    | 23.1   | 24.5   | 25.8   | 27.1   | 27.8   | 27.9   | 28.1   | 28.4   | 28.6   | 28.8   | 28.6   |
| 97.5°  | 22.9   | 24.0   | 25.1   | 26.2   | 26.8   | 26.9   | 27.1   | 27.4   | 27.6   | 27.8   | 27.6   |
| 100°   | 39.9   | 36.2   | 32.4   | 28.7   | 26.8   | 26.9   | 27.1   | 27.4   | 27.6   | 27.8   | 27.6   |
| 102.5° | 202.5  | 152.9  | 103.2  | 53.6   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   |
| 105°   | 311.7  | 313.7  | 315.6  | 317.6  | 318.6  | 314.6  | 306.7  | 298.8  | 290.8  | 282.9  | 290.8  |
| 107.5° | 374.3  | 375.4  | 376.5  | 377.6  | 378.2  | 378.6  | 379.5  | 380.4  | 381.2  | 382.1  | 381.2  |
| 110°   | 438.1  | 438.6  | 439.0  | 439.5  | 439.7  | 440.0  | 440.7  | 441.4  | 442.0  | 442.7  | 442.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 500.0  | 499.8  | 499.5  | 499.3  | 499.2  | 499.6  | 500.5  | 501.4  | 502.3  | 503.2  | 502.3  |
| 115°   | 560.2  | 560.7  | 561.1  | 561.6  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  |
| 117.5° | 623.1  | 622.9  | 622.6  | 622.4  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  |
| 120°   | 679.3  | 679.8  | 680.2  | 680.7  | 680.9  | 680.7  | 680.2  | 679.8  | 679.3  | 678.9  | 679.3  |
| 122.5° | 735.7  | 735.9  | 736.2  | 736.4  | 736.5  | 736.3  | 735.8  | 735.4  | 734.9  | 734.5  | 734.9  |
| 125°   | 786.8  | 787.4  | 788.1  | 788.8  | 789.1  | 789.2  | 789.4  | 789.7  | 789.9  | 790.1  | 789.9  |
| 127.5° | 840.5  | 840.3  | 840.0  | 839.8  | 839.7  | 839.6  | 839.4  | 839.1  | 838.9  | 838.7  | 838.9  |
| 130°   | 887.5  | 887.7  | 888.0  | 888.2  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  |
| 132.5° | 934.2  | 934.4  | 934.7  | 934.9  | 935.0  | 934.9  | 934.7  | 934.4  | 934.2  | 934.0  | 934.2  |
| 135°   | 976.1  | 976.5  | 977.0  | 977.4  | 977.6  | 977.8  | 978.3  | 978.7  | 979.2  | 979.6  | 979.2  |
| 137.5° | 1017.7 | 1018.2 | 1018.6 | 1019.1 | 1019.3 | 1019.2 | 1019.0 | 1018.7 | 1018.5 | 1018.3 | 1018.5 |
| 140°   | 1055.7 | 1056.4 | 1057.0 | 1057.7 | 1058.0 | 1058.1 | 1058.3 | 1058.6 | 1058.8 | 1059.0 | 1058.8 |
| 142.5° | 1091.2 | 1091.7 | 1092.1 | 1092.6 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 |
| 145°   | 1124.7 | 1124.9 | 1125.2 | 1125.4 | 1125.5 | 1125.7 | 1126.2 | 1126.6 | 1127.1 | 1127.5 | 1127.1 |
| 147.5° | 1154.5 | 1154.7 | 1155.0 | 1155.2 | 1155.3 | 1155.4 | 1155.6 | 1155.9 | 1156.1 | 1156.3 | 1156.1 |
| 150°   | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.2 | 1183.4 | 1183.7 | 1183.9 | 1184.1 | 1183.9 |
| 152.5° | 1207.3 | 1207.8 | 1208.2 | 1208.7 | 1208.9 | 1208.8 | 1208.6 | 1208.3 | 1208.1 | 1207.9 | 1208.1 |
| 155°   | 1228.7 | 1229.5 | 1230.4 | 1231.3 | 1231.7 | 1231.4 | 1230.7 | 1230.1 | 1229.4 | 1228.8 | 1229.4 |
| 157.5° | 1247.7 | 1248.8 | 1249.9 | 1251.0 | 1251.6 | 1251.0 | 1249.9 | 1248.8 | 1247.7 | 1246.6 | 1247.7 |
| 160°   | 1265.8 | 1267.1 | 1268.4 | 1269.7 | 1270.4 | 1269.7 | 1268.4 | 1267.1 | 1265.8 | 1264.5 | 1265.8 |
| 162.5° | 1280.7 | 1282.0 | 1283.3 | 1284.6 | 1285.3 | 1284.5 | 1283.0 | 1281.5 | 1279.9 | 1278.4 | 1279.9 |
| 165°   | 1294.1 | 1295.8 | 1297.6 | 1299.3 | 1300.2 | 1299.2 | 1297.2 | 1295.3 | 1293.3 | 1291.3 | 1293.3 |
| 167.5° | 1304.2 | 1306.2 | 1308.1 | 1310.1 | 1311.1 | 1310.0 | 1307.8 | 1305.6 | 1303.4 | 1301.2 | 1303.4 |
| 170°   | 1313.9 | 1315.7 | 1317.4 | 1319.2 | 1320.1 | 1319.0 | 1316.8 | 1314.5 | 1312.3 | 1310.1 | 1312.3 |
| 172.5° | 1319.9 | 1321.6 | 1323.4 | 1325.1 | 1326.0 | 1324.8 | 1322.4 | 1319.9 | 1317.5 | 1315.1 | 1317.5 |
| 175°   | 1324.1 | 1326.1 | 1328.0 | 1330.0 | 1331.0 | 1329.7 | 1327.0 | 1324.4 | 1321.7 | 1319.1 | 1321.7 |
| 177.5° | 1326.8 | 1328.6 | 1330.3 | 1332.1 | 1333.0 | 1331.7 | 1329.0 | 1326.4 | 1323.7 | 1321.1 | 1323.7 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

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CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1797.0 | 1792.9 | 1787.4 | 1787.4 | 1780.5 | 1780.5 | 1769.4 | 1750.1 | 1733.6 | 1728.0 | 1730.8 |
| 5°     | 1950.3 | 1951.6 | 1943.3 | 1936.4 | 1924.0 | 1914.4 | 1896.4 | 1861.9 | 1850.9 | 1828.8 | 1813.6 |
| 7.5°   | 2125.5 | 2120.0 | 2104.8 | 2093.8 | 2091.0 | 2068.9 | 2030.3 | 1988.9 | 1955.8 | 1933.7 | 1901.9 |
| 10°    | 2322.9 | 2300.8 | 2278.7 | 2271.8 | 2255.3 | 2218.0 | 2173.8 | 2128.3 | 2082.8 | 2034.4 | 1980.6 |
| 12.5°  | 2488.5 | 2445.7 | 2444.4 | 2427.8 | 2396.1 | 2375.4 | 2322.9 | 2258.0 | 2179.4 | 2125.5 | 2064.8 |
| 15°    | 2666.6 | 2626.6 | 2593.4 | 2563.1 | 2547.9 | 2487.2 | 2443.0 | 2361.6 | 2267.7 | 2209.7 | 2168.3 |
| 17.5°  | 2793.6 | 2775.6 | 2719.0 | 2705.2 | 2684.5 | 2614.1 | 2543.7 | 2463.7 | 2382.3 | 2300.8 | 2189.0 |
| 20°    | 2895.7 | 2884.7 | 2847.4 | 2828.1 | 2794.9 | 2739.7 | 2654.2 | 2561.7 | 2467.8 | 2351.9 | 2247.0 |
| 22.5°  | 2939.9 | 2926.1 | 2895.7 | 2879.1 | 2858.4 | 2811.5 | 2738.4 | 2633.5 | 2510.6 | 2407.1 | 2295.3 |
| 25°    | 2852.9 | 2877.8 | 2869.5 | 2862.6 | 2854.3 | 2826.7 | 2771.5 | 2679.0 | 2558.9 | 2441.6 | 2302.2 |
| 27.5°  | 2656.9 | 2699.7 | 2741.1 | 2746.6 | 2760.4 | 2771.5 | 2749.4 | 2683.1 | 2582.4 | 2458.2 | 2305.0 |
| 30°    | 2393.3 | 2412.6 | 2496.8 | 2521.7 | 2541.0 | 2611.4 | 2652.8 | 2636.2 | 2558.9 | 2447.1 | 2306.3 |
| 32.5°  | 2055.1 | 2106.2 | 2191.8 | 2251.1 | 2303.6 | 2382.3 | 2489.9 | 2532.7 | 2505.1 | 2414.0 | 2274.6 |
| 35°    | 1734.9 | 1795.7 | 1895.0 | 1971.0 | 2023.4 | 2135.2 | 2262.2 | 2354.7 | 2389.2 | 2343.6 | 2219.4 |
| 37.5°  | 1472.7 | 1545.8 | 1634.2 | 1663.2 | 1723.9 | 1861.9 | 2037.2 | 2165.6 | 2249.8 | 2253.9 | 2157.3 |
| 40°    | 1275.3 | 1312.6 | 1383.0 | 1427.1 | 1486.5 | 1602.4 | 1773.6 | 1943.3 | 2070.3 | 2113.1 | 2062.0 |
| 42.5°  | 1108.3 | 1137.3 | 1189.7 | 1243.6 | 1297.4 | 1385.7 | 1543.1 | 1701.8 | 1873.0 | 1958.5 | 1957.2 |
| 45°    | 975.8  | 1006.2 | 1042.1 | 1086.2 | 1123.5 | 1218.7 | 1343.0 | 1505.8 | 1653.5 | 1786.0 | 1819.1 |
| 47.5°  | 859.9  | 886.1  | 930.3  | 949.6  | 974.4  | 1064.1 | 1171.8 | 1323.6 | 1476.8 | 1628.7 | 1667.3 |
| 50°    | 774.3  | 796.4  | 826.8  | 839.2  | 866.8  | 933.0  | 1021.4 | 1144.2 | 1314.0 | 1453.4 | 1525.1 |
| 52.5°  | 697.0  | 713.6  | 737.0  | 746.7  | 766.0  | 815.7  | 895.8  | 992.4  | 1133.2 | 1276.7 | 1377.5 |
| 55°    | 630.8  | 641.8  | 658.4  | 669.4  | 683.2  | 727.4  | 786.7  | 873.7  | 995.1  | 1119.4 | 1217.4 |
| 57.5°  | 568.7  | 576.9  | 593.5  | 599.0  | 610.1  | 644.6  | 686.0  | 759.1  | 870.9  | 981.3  | 1076.6 |
| 60°    | 510.7  | 516.2  | 525.9  | 538.3  | 546.6  | 570.0  | 608.7  | 669.4  | 759.1  | 859.9  | 937.2  |
| 62.5°  | 455.5  | 463.8  | 466.5  | 472.0  | 478.9  | 501.0  | 531.4  | 575.6  | 654.2  | 737.0  | 818.5  |
| 65°    | 398.9  | 405.8  | 411.3  | 412.7  | 419.6  | 436.1  | 463.8  | 502.4  | 553.5  | 625.2  | 701.2  |
| 67.5°  | 346.4  | 350.6  | 353.3  | 358.9  | 365.8  | 374.0  | 396.1  | 425.1  | 472.0  | 530.0  | 590.7  |
| 70°    | 298.1  | 298.1  | 302.3  | 303.6  | 311.9  | 321.6  | 331.3  | 358.9  | 400.3  | 447.2  | 488.6  |
| 72.5°  | 245.7  | 252.6  | 251.2  | 258.1  | 256.7  | 263.6  | 276.0  | 294.0  | 324.4  | 361.6  | 401.6  |
| 75°    | 200.1  | 204.3  | 204.3  | 204.3  | 207.0  | 212.6  | 219.5  | 236.0  | 259.5  | 289.8  | 313.3  |
| 77.5°  | 156.0  | 158.7  | 158.7  | 158.7  | 160.1  | 165.6  | 172.5  | 183.6  | 200.1  | 218.1  | 231.9  |
| 80°    | 111.8  | 114.6  | 114.6  | 117.3  | 117.3  | 118.7  | 125.6  | 131.1  | 139.4  | 153.2  | 167.0  |
| 82.5°  | 75.9   | 77.3   | 80.1   | 80.1   | 78.7   | 81.4   | 82.8   | 88.3   | 96.6   | 99.4   | 109.0  |
| 85°    | 41.4   | 42.8   | 44.2   | 44.2   | 45.5   | 48.3   | 46.9   | 52.4   | 52.4   | 58.0   | 60.7   |
| 87.5°  | 16.6   | 19.3   | 19.3   | 17.9   | 19.3   | 19.3   | 19.3   | 22.1   | 23.5   | 24.8   | 23.5   |
| 90°    | 28.9   | 28.5   | 28.0   | 27.8   | 27.1   | 25.8   | 24.5   | 23.1   | 21.8   | 20.0   | 18.3   |
| 92.5°  | 26.8   | 26.8   | 26.8   | 26.8   | 26.1   | 24.8   | 23.5   | 22.1   | 20.8   | 19.0   | 17.3   |
| 95°    | 28.4   | 28.1   | 27.9   | 27.8   | 27.1   | 25.8   | 24.5   | 23.1   | 21.8   | 21.6   | 21.4   |
| 97.5°  | 27.4   | 27.1   | 26.9   | 26.8   | 26.2   | 25.1   | 24.0   | 22.9   | 21.8   | 45.0   | 68.2   |
| 100°   | 27.4   | 27.1   | 26.9   | 26.8   | 28.7   | 32.4   | 36.2   | 39.9   | 43.7   | 74.1   | 104.5  |
| 102.5° | 28.8   | 28.8   | 28.8   | 28.8   | 53.6   | 103.2  | 152.9  | 202.5  | 252.1  | 249.5  | 246.8  |
| 105°   | 298.8  | 306.7  | 314.6  | 318.6  | 317.6  | 315.6  | 313.7  | 311.7  | 309.7  | 308.6  | 307.5  |
| 107.5° | 380.4  | 379.5  | 378.6  | 378.2  | 377.6  | 376.5  | 375.4  | 374.3  | 373.2  | 371.6  | 370.1  |
| 110°   | 441.4  | 440.7  | 440.0  | 439.7  | 439.5  | 439.0  | 438.6  | 438.1  | 437.7  | 436.4  | 435.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 501.4  | 500.5  | 499.6  | 499.2  | 499.3  | 499.5  | 499.8  | 500.0  | 500.2  | 499.8  | 499.4  |
| 115°   | 561.8  | 561.8  | 561.8  | 561.8  | 561.6  | 561.1  | 560.7  | 560.2  | 559.8  | 560.0  | 560.2  |
| 117.5° | 622.3  | 622.3  | 622.3  | 622.3  | 622.4  | 622.6  | 622.9  | 623.1  | 623.3  | 622.6  | 622.0  |
| 120°   | 679.8  | 680.2  | 680.7  | 680.9  | 680.7  | 680.2  | 679.8  | 679.3  | 678.9  | 679.1  | 679.3  |
| 122.5° | 735.4  | 735.8  | 736.3  | 736.5  | 736.4  | 736.2  | 735.9  | 735.7  | 735.5  | 735.1  | 734.6  |
| 125°   | 789.7  | 789.4  | 789.2  | 789.1  | 788.8  | 788.1  | 787.4  | 786.8  | 786.1  | 786.5  | 787.0  |
| 127.5° | 839.1  | 839.4  | 839.6  | 839.7  | 839.8  | 840.0  | 840.3  | 840.5  | 840.7  | 839.6  | 838.5  |
| 130°   | 888.3  | 888.3  | 888.3  | 888.3  | 888.2  | 888.0  | 887.7  | 887.5  | 887.3  | 886.6  | 886.0  |
| 132.5° | 934.4  | 934.7  | 934.9  | 935.0  | 934.9  | 934.7  | 934.4  | 934.2  | 934.0  | 933.1  | 932.2  |
| 135°   | 978.7  | 978.3  | 977.8  | 977.6  | 977.4  | 977.0  | 976.5  | 976.1  | 975.7  | 974.8  | 973.9  |
| 137.5° | 1018.7 | 1019.0 | 1019.2 | 1019.3 | 1019.1 | 1018.6 | 1018.2 | 1017.7 | 1017.3 | 1016.2 | 1015.1 |
| 140°   | 1058.6 | 1058.3 | 1058.1 | 1058.0 | 1057.7 | 1057.0 | 1056.4 | 1055.7 | 1055.1 | 1054.7 | 1054.2 |
| 142.5° | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.6 | 1092.1 | 1091.7 | 1091.2 | 1090.8 | 1090.6 | 1090.4 |
| 145°   | 1126.6 | 1126.2 | 1125.7 | 1125.5 | 1125.4 | 1125.2 | 1124.9 | 1124.7 | 1124.5 | 1124.5 | 1124.5 |
| 147.5° | 1155.9 | 1155.6 | 1155.4 | 1155.3 | 1155.2 | 1155.0 | 1154.7 | 1154.5 | 1154.3 | 1154.5 | 1154.7 |
| 150°   | 1183.7 | 1183.4 | 1183.2 | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.3 | 1183.5 |
| 152.5° | 1208.3 | 1208.6 | 1208.8 | 1208.9 | 1208.7 | 1208.2 | 1207.8 | 1207.3 | 1206.9 | 1207.3 | 1207.8 |
| 155°   | 1230.1 | 1230.7 | 1231.4 | 1231.7 | 1231.3 | 1230.4 | 1229.5 | 1228.7 | 1227.8 | 1228.4 | 1229.1 |
| 157.5° | 1248.8 | 1249.9 | 1251.0 | 1251.6 | 1251.0 | 1249.9 | 1248.8 | 1247.7 | 1246.6 | 1247.5 | 1248.4 |
| 160°   | 1267.1 | 1268.4 | 1269.7 | 1270.4 | 1269.7 | 1268.4 | 1267.1 | 1265.8 | 1264.5 | 1264.7 | 1264.9 |
| 162.5° | 1281.5 | 1283.0 | 1284.5 | 1285.3 | 1284.6 | 1283.3 | 1282.0 | 1280.7 | 1279.4 | 1279.6 | 1279.8 |
| 165°   | 1295.3 | 1297.2 | 1299.2 | 1300.2 | 1299.3 | 1297.6 | 1295.8 | 1294.1 | 1292.3 | 1292.3 | 1292.3 |
| 167.5° | 1305.6 | 1307.8 | 1310.0 | 1311.1 | 1310.1 | 1308.1 | 1306.2 | 1304.2 | 1302.2 | 1302.4 | 1302.6 |
| 170°   | 1314.5 | 1316.8 | 1319.0 | 1320.1 | 1319.2 | 1317.4 | 1315.7 | 1313.9 | 1312.1 | 1311.9 | 1311.7 |
| 172.5° | 1319.9 | 1322.4 | 1324.8 | 1326.0 | 1325.1 | 1323.4 | 1321.6 | 1319.9 | 1318.1 | 1317.9 | 1317.7 |
| 175°   | 1324.4 | 1327.0 | 1329.7 | 1331.0 | 1330.0 | 1328.0 | 1326.1 | 1324.1 | 1322.1 | 1321.9 | 1321.7 |
| 177.5° | 1326.4 | 1329.0 | 1331.7 | 1333.0 | 1332.1 | 1330.3 | 1328.6 | 1326.8 | 1325.0 | 1324.6 | 1324.1 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1718.4 | 1712.9 | 1708.7 | 1708.7 | 1696.3 | 1683.9 | 1677.0 | 1674.2 | 1671.4 | 1660.4 | 1645.2 |
| 5°     | 1788.8 | 1770.8 | 1758.4 | 1746.0 | 1725.3 | 1703.2 | 1681.1 | 1668.7 | 1650.7 | 1625.9 | 1608.0 |
| 7.5°   | 1867.4 | 1824.7 | 1810.8 | 1795.7 | 1754.3 | 1717.0 | 1686.6 | 1660.4 | 1631.4 | 1599.7 | 1567.9 |
| 10°    | 1933.7 | 1888.1 | 1857.8 | 1831.6 | 1777.7 | 1728.0 | 1682.5 | 1643.8 | 1606.6 | 1565.2 | 1526.5 |
| 12.5°  | 1997.2 | 1932.3 | 1900.6 | 1861.9 | 1805.3 | 1733.6 | 1674.2 | 1625.9 | 1570.7 | 1527.9 | 1481.0 |
| 15°    | 2085.5 | 1976.5 | 1924.0 | 1899.2 | 1823.3 | 1739.1 | 1667.3 | 1595.5 | 1550.0 | 1485.1 | 1443.7 |
| 17.5°  | 2099.3 | 2011.0 | 1976.5 | 1913.0 | 1821.9 | 1726.7 | 1643.8 | 1572.1 | 1503.1 | 1445.1 | 1391.3 |
| 20°    | 2147.6 | 2031.7 | 1976.5 | 1936.4 | 1816.4 | 1719.8 | 1628.7 | 1536.2 | 1469.9 | 1407.8 | 1347.1 |
| 22.5°  | 2178.0 | 2046.9 | 1988.9 | 1925.4 | 1810.8 | 1694.9 | 1587.3 | 1507.2 | 1425.8 | 1362.3 | 1314.0 |
| 25°    | 2169.7 | 2038.6 | 1973.7 | 1914.4 | 1775.0 | 1659.0 | 1562.4 | 1460.3 | 1384.4 | 1315.3 | 1251.9 |
| 27.5°  | 2165.6 | 2017.9 | 1948.9 | 1882.6 | 1751.5 | 1630.0 | 1508.6 | 1425.8 | 1341.6 | 1261.5 | 1214.6 |
| 30°    | 2154.5 | 1991.7 | 1911.6 | 1839.8 | 1703.2 | 1576.2 | 1472.7 | 1376.1 | 1291.9 | 1218.7 | 1156.6 |
| 32.5°  | 2117.3 | 1947.5 | 1870.2 | 1792.9 | 1650.7 | 1523.8 | 1418.9 | 1329.2 | 1245.0 | 1169.0 | 1109.7 |
| 35°    | 2067.6 | 1895.0 | 1810.8 | 1729.4 | 1587.3 | 1458.9 | 1362.3 | 1268.4 | 1189.7 | 1116.6 | 1060.0 |
| 37.5°  | 2017.9 | 1834.3 | 1755.6 | 1661.8 | 1530.7 | 1396.8 | 1297.4 | 1213.2 | 1140.1 | 1064.1 | 1002.0 |
| 40°    | 1946.1 | 1762.5 | 1675.6 | 1595.5 | 1442.3 | 1316.7 | 1225.6 | 1149.7 | 1078.0 | 1006.2 | 953.7  |
| 42.5°  | 1848.1 | 1683.9 | 1594.2 | 1505.8 | 1362.3 | 1238.1 | 1149.7 | 1082.1 | 1014.5 | 955.1  | 897.1  |
| 45°    | 1748.7 | 1588.6 | 1508.6 | 1429.9 | 1273.9 | 1156.6 | 1075.2 | 1013.1 | 956.5  | 891.6  | 844.7  |
| 47.5°  | 1628.7 | 1493.4 | 1413.3 | 1336.1 | 1188.4 | 1071.1 | 996.5  | 938.5  | 886.1  | 832.3  | 788.1  |
| 50°    | 1505.8 | 1388.5 | 1315.3 | 1235.3 | 1094.5 | 988.2  | 915.1  | 866.8  | 824.0  | 772.9  | 737.0  |
| 52.5°  | 1373.3 | 1271.2 | 1209.1 | 1131.8 | 1007.6 | 909.6  | 835.0  | 786.7  | 750.8  | 713.6  | 681.8  |
| 55°    | 1232.5 | 1158.0 | 1091.8 | 1029.6 | 912.3  | 824.0  | 757.7  | 715.0  | 690.1  | 655.6  | 628.0  |
| 57.5°  | 1105.6 | 1033.8 | 993.8  | 923.4  | 821.2  | 734.3  | 681.8  | 645.9  | 617.0  | 596.3  | 574.2  |
| 60°    | 973.1  | 915.1  | 870.9  | 819.9  | 730.1  | 657.0  | 601.8  | 581.1  | 550.7  | 535.5  | 525.9  |
| 62.5°  | 846.1  | 804.7  | 763.3  | 724.6  | 644.6  | 575.6  | 534.1  | 507.9  | 490.0  | 474.8  | 466.5  |
| 65°    | 726.0  | 687.3  | 658.4  | 623.9  | 557.6  | 502.4  | 463.8  | 443.1  | 425.1  | 421.0  | 411.3  |
| 67.5°  | 608.7  | 592.1  | 560.4  | 532.8  | 476.2  | 433.4  | 404.4  | 378.2  | 368.5  | 364.4  | 356.1  |
| 70°    | 509.3  | 490.0  | 465.1  | 441.7  | 398.9  | 361.6  | 335.4  | 325.7  | 311.9  | 310.5  | 300.9  |
| 72.5°  | 419.6  | 396.1  | 378.2  | 360.2  | 328.5  | 295.4  | 281.6  | 267.8  | 260.9  | 255.3  | 251.2  |
| 75°    | 332.6  | 316.1  | 303.6  | 288.5  | 260.9  | 238.8  | 219.5  | 213.9  | 209.8  | 208.4  | 205.7  |
| 77.5°  | 248.4  | 237.4  | 231.9  | 216.7  | 197.4  | 178.0  | 169.8  | 161.5  | 161.5  | 158.7  | 160.1  |
| 80°    | 176.7  | 169.8  | 162.9  | 154.6  | 138.0  | 129.7  | 122.8  | 117.3  | 114.6  | 113.2  | 114.6  |
| 82.5°  | 111.8  | 107.7  | 106.3  | 100.8  | 89.7   | 85.6   | 80.1   | 75.9   | 75.9   | 75.9   | 75.9   |
| 85°    | 62.1   | 62.1   | 62.1   | 53.8   | 49.7   | 45.5   | 42.8   | 41.4   | 41.4   | 41.4   | 42.8   |
| 87.5°  | 26.2   | 26.2   | 22.1   | 22.1   | 20.7   | 17.9   | 16.6   | 16.6   | 17.9   | 17.9   | 19.3   |
| 90°    | 16.5   | 14.8   | 13.9   | 12.7   | 10.3   | 7.8    | 5.4    | 3.0    | 5.4    | 7.8    | 10.3   |
| 92.5°  | 15.5   | 13.8   | 12.9   | 13.1   | 13.6   | 14.0   | 14.5   | 14.9   | 14.5   | 14.0   | 13.6   |
| 95°    | 21.1   | 20.9   | 20.8   | 24.6   | 32.1   | 39.6   | 47.1   | 54.6   | 47.1   | 39.6   | 32.1   |
| 97.5°  | 91.3   | 114.5  | 126.1  | 123.7  | 118.8  | 113.9  | 109.1  | 104.2  | 109.1  | 113.9  | 118.8  |
| 100°   | 135.0  | 165.4  | 180.6  | 178.6  | 174.7  | 170.7  | 166.8  | 162.8  | 166.8  | 170.7  | 174.7  |
| 102.5° | 244.2  | 241.5  | 240.2  | 238.9  | 236.2  | 233.6  | 230.9  | 228.3  | 230.9  | 233.6  | 236.2  |
| 105°   | 306.4  | 305.3  | 304.7  | 304.0  | 302.7  | 301.4  | 300.1  | 298.8  | 300.1  | 301.4  | 302.7  |
| 107.5° | 368.5  | 367.0  | 366.2  | 365.9  | 365.2  | 364.6  | 363.9  | 363.3  | 363.9  | 364.6  | 365.2  |
| 110°   | 433.8  | 432.5  | 431.8  | 431.5  | 430.8  | 430.1  | 429.5  | 428.8  | 429.5  | 430.1  | 430.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 498.9  | 498.5  | 498.3  | 497.6  | 496.3  | 495.0  | 493.6  | 492.3  | 493.6  | 495.0  | 496.3  |
| 115°   | 560.5  | 560.7  | 560.8  | 560.5  | 559.8  | 559.1  | 558.5  | 557.8  | 558.5  | 559.1  | 559.8  |
| 117.5° | 621.3  | 620.6  | 620.3  | 619.9  | 619.0  | 618.1  | 617.3  | 616.4  | 617.3  | 618.1  | 619.0  |
| 120°   | 679.6  | 679.8  | 679.9  | 679.5  | 678.6  | 677.7  | 676.8  | 675.9  | 676.8  | 677.7  | 678.6  |
| 122.5° | 734.2  | 733.7  | 733.5  | 733.3  | 732.8  | 732.4  | 731.9  | 731.5  | 731.9  | 732.4  | 732.8  |
| 125°   | 787.4  | 787.9  | 788.1  | 787.7  | 786.8  | 785.9  | 785.0  | 784.1  | 785.0  | 785.9  | 786.8  |
| 127.5° | 837.4  | 836.3  | 835.7  | 835.6  | 835.4  | 835.1  | 834.9  | 834.7  | 834.9  | 835.1  | 835.4  |
| 130°   | 885.3  | 884.6  | 884.3  | 884.2  | 884.0  | 883.8  | 883.6  | 883.4  | 883.6  | 883.8  | 884.0  |
| 132.5° | 931.3  | 930.4  | 930.0  | 929.8  | 929.3  | 928.9  | 928.4  | 928.0  | 928.4  | 928.9  | 929.3  |
| 135°   | 973.0  | 972.1  | 971.7  | 971.8  | 972.0  | 972.3  | 972.5  | 972.7  | 972.5  | 972.3  | 972.0  |
| 137.5° | 1014.0 | 1012.9 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 | 1012.4 |
| 140°   | 1053.8 | 1053.3 | 1053.1 | 1052.9 | 1052.4 | 1052.0 | 1051.5 | 1051.1 | 1051.5 | 1052.0 | 1052.4 |
| 142.5° | 1090.1 | 1089.9 | 1089.8 | 1089.4 | 1088.5 | 1087.6 | 1086.7 | 1085.8 | 1086.7 | 1087.6 | 1088.5 |
| 145°   | 1124.5 | 1124.5 | 1124.5 | 1124.2 | 1123.5 | 1122.9 | 1122.2 | 1121.6 | 1122.2 | 1122.9 | 1123.5 |
| 147.5° | 1155.0 | 1155.2 | 1155.3 | 1154.6 | 1153.3 | 1152.0 | 1150.7 | 1149.4 | 1150.7 | 1152.0 | 1153.3 |
| 150°   | 1183.8 | 1184.0 | 1184.1 | 1183.7 | 1182.8 | 1181.9 | 1181.0 | 1180.1 | 1181.0 | 1181.9 | 1182.8 |
| 152.5° | 1208.2 | 1208.7 | 1208.9 | 1208.6 | 1207.9 | 1207.2 | 1206.6 | 1205.9 | 1206.6 | 1207.2 | 1207.9 |
| 155°   | 1229.7 | 1230.4 | 1230.7 | 1230.6 | 1230.4 | 1230.1 | 1229.9 | 1229.7 | 1229.9 | 1230.1 | 1230.4 |
| 157.5° | 1249.3 | 1250.2 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 | 1250.6 |
| 160°   | 1265.2 | 1265.4 | 1265.5 | 1265.8 | 1266.5 | 1267.2 | 1267.8 | 1268.5 | 1267.8 | 1267.2 | 1266.5 |
| 162.5° | 1280.1 | 1280.3 | 1280.4 | 1280.8 | 1281.7 | 1282.6 | 1283.4 | 1284.3 | 1283.4 | 1282.6 | 1281.7 |
| 165°   | 1292.3 | 1292.3 | 1292.3 | 1292.8 | 1293.9 | 1295.0 | 1296.1 | 1297.2 | 1296.1 | 1295.0 | 1293.9 |
| 167.5° | 1302.9 | 1303.1 | 1303.2 | 1303.8 | 1304.9 | 1306.0 | 1307.1 | 1308.2 | 1307.1 | 1306.0 | 1304.9 |
| 170°   | 1311.4 | 1311.2 | 1311.1 | 1311.8 | 1313.1 | 1314.4 | 1315.8 | 1317.1 | 1315.8 | 1314.4 | 1313.1 |
| 172.5° | 1317.4 | 1317.2 | 1317.1 | 1317.8 | 1319.1 | 1320.4 | 1321.7 | 1323.0 | 1321.7 | 1320.4 | 1319.1 |
| 175°   | 1321.4 | 1321.2 | 1321.1 | 1321.8 | 1323.1 | 1324.4 | 1325.7 | 1327.0 | 1325.7 | 1324.4 | 1323.1 |
| 177.5° | 1323.7 | 1323.2 | 1323.0 | 1323.8 | 1325.3 | 1326.9 | 1328.4 | 1330.0 | 1328.4 | 1326.9 | 1325.3 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1641.1 | 1635.6 | 1638.3 | 1624.5 | 1612.1 | 1594.2 | 1579.0 | 1576.2 | 1573.5 | 1581.7 | 1576.2 |
| 5°     | 1594.2 | 1587.3 | 1580.4 | 1563.8 | 1538.9 | 1523.8 | 1501.7 | 1500.3 | 1492.0 | 1479.6 | 1482.4 |
| 7.5°   | 1543.1 | 1538.9 | 1529.3 | 1503.1 | 1481.0 | 1454.8 | 1436.8 | 1421.6 | 1414.7 | 1403.7 | 1399.5 |
| 10°    | 1501.7 | 1486.5 | 1478.2 | 1449.2 | 1423.0 | 1395.4 | 1371.9 | 1360.9 | 1348.5 | 1338.8 | 1331.9 |
| 12.5°  | 1445.1 | 1440.9 | 1417.5 | 1394.0 | 1371.9 | 1340.2 | 1322.3 | 1290.5 | 1273.9 | 1282.2 | 1279.5 |
| 15°    | 1407.8 | 1388.5 | 1383.0 | 1349.9 | 1312.6 | 1291.9 | 1258.8 | 1238.1 | 1231.2 | 1218.7 | 1203.6 |
| 17.5°  | 1358.1 | 1345.7 | 1326.4 | 1296.0 | 1253.2 | 1224.3 | 1200.8 | 1181.5 | 1173.2 | 1156.6 | 1144.2 |
| 20°    | 1311.2 | 1290.5 | 1275.3 | 1247.7 | 1206.3 | 1169.0 | 1140.1 | 1127.6 | 1106.9 | 1093.1 | 1086.2 |
| 22.5°  | 1268.4 | 1253.2 | 1231.2 | 1189.7 | 1153.9 | 1118.0 | 1083.5 | 1065.5 | 1046.2 | 1037.9 | 1026.9 |
| 25°    | 1216.0 | 1191.1 | 1175.9 | 1130.4 | 1091.8 | 1062.8 | 1031.0 | 1007.6 | 996.5  | 982.7  | 980.0  |
| 27.5°  | 1164.9 | 1141.4 | 1123.5 | 1083.5 | 1036.5 | 999.3  | 980.0  | 963.4  | 944.1  | 944.1  | 937.2  |
| 30°    | 1113.8 | 1097.3 | 1069.7 | 1031.0 | 986.9  | 951.0  | 928.9  | 913.7  | 906.8  | 901.3  | 899.9  |
| 32.5°  | 1062.8 | 1040.7 | 1024.1 | 971.7  | 938.5  | 905.4  | 888.9  | 876.4  | 868.2  | 866.8  | 868.2  |
| 35°    | 1010.3 | 985.5  | 968.9  | 922.0  | 888.9  | 858.5  | 851.6  | 840.6  | 836.4  | 835.0  | 841.9  |
| 37.5°  | 955.1  | 935.8  | 915.1  | 876.4  | 839.2  | 821.2  | 807.4  | 803.3  | 801.9  | 810.2  | 812.9  |
| 40°    | 904.0  | 887.5  | 868.2  | 826.8  | 799.1  | 779.8  | 772.9  | 768.8  | 774.3  | 782.6  | 786.7  |
| 42.5°  | 855.7  | 832.3  | 817.1  | 779.8  | 755.0  | 743.9  | 735.7  | 735.7  | 741.2  | 750.8  | 757.7  |
| 45°    | 804.7  | 786.7  | 771.5  | 738.4  | 716.3  | 703.9  | 702.5  | 703.9  | 710.8  | 717.7  | 726.0  |
| 47.5°  | 755.0  | 737.0  | 720.5  | 692.9  | 673.5  | 666.6  | 665.3  | 666.6  | 677.7  | 687.3  | 697.0  |
| 50°    | 709.4  | 690.1  | 674.9  | 648.7  | 633.5  | 625.2  | 626.6  | 633.5  | 641.8  | 655.6  | 668.0  |
| 52.5°  | 655.6  | 641.8  | 628.0  | 604.5  | 590.7  | 585.2  | 589.4  | 594.9  | 610.1  | 619.7  | 634.9  |
| 55°    | 603.2  | 590.7  | 579.7  | 561.7  | 550.7  | 546.6  | 549.3  | 557.6  | 570.0  | 586.6  | 604.5  |
| 57.5°  | 554.8  | 541.0  | 530.0  | 517.6  | 505.2  | 506.5  | 507.9  | 519.0  | 534.1  | 549.3  | 570.0  |
| 60°    | 501.0  | 492.7  | 483.1  | 467.9  | 462.4  | 462.4  | 466.5  | 478.9  | 492.7  | 517.6  | 535.5  |
| 62.5°  | 452.7  | 441.7  | 434.8  | 425.1  | 416.8  | 418.2  | 427.9  | 438.9  | 455.5  | 476.2  | 499.6  |
| 65°    | 403.0  | 390.6  | 385.1  | 376.8  | 374.0  | 375.4  | 382.3  | 398.9  | 416.8  | 434.8  | 456.9  |
| 67.5°  | 347.8  | 343.7  | 338.2  | 329.9  | 332.6  | 334.0  | 340.9  | 354.7  | 374.0  | 392.0  | 416.8  |
| 70°    | 300.9  | 292.6  | 291.2  | 284.3  | 284.3  | 288.5  | 302.3  | 311.9  | 329.9  | 349.2  | 375.4  |
| 72.5°  | 251.2  | 244.3  | 244.3  | 238.8  | 242.9  | 247.1  | 254.0  | 267.8  | 284.3  | 303.6  | 325.7  |
| 75°    | 200.1  | 197.4  | 200.1  | 197.4  | 197.4  | 204.3  | 212.6  | 223.6  | 241.5  | 262.2  | 280.2  |
| 77.5°  | 154.6  | 154.6  | 153.2  | 157.3  | 157.3  | 161.5  | 172.5  | 183.6  | 197.4  | 213.9  | 233.3  |
| 80°    | 113.2  | 113.2  | 113.2  | 117.3  | 121.5  | 121.5  | 128.4  | 142.2  | 154.6  | 165.6  | 183.6  |
| 82.5°  | 77.3   | 77.3   | 77.3   | 80.1   | 85.6   | 85.6   | 93.9   | 102.1  | 115.9  | 125.6  | 133.9  |
| 85°    | 46.9   | 46.9   | 45.5   | 48.3   | 49.7   | 53.8   | 60.7   | 66.3   | 73.2   | 81.4   | 89.7   |
| 87.5°  | 20.7   | 20.7   | 22.1   | 23.5   | 24.8   | 27.6   | 30.4   | 33.1   | 40.0   | 42.8   | 46.9   |
| 90°    | 12.7   | 13.9   | 14.8   | 16.5   | 18.3   | 20.0   | 21.8   | 23.1   | 24.5   | 25.8   | 27.1   |
| 92.5°  | 13.1   | 12.9   | 13.8   | 15.5   | 17.3   | 19.0   | 20.8   | 22.1   | 23.5   | 24.8   | 26.1   |
| 95°    | 24.6   | 20.8   | 20.9   | 21.1   | 21.4   | 21.6   | 21.8   | 23.1   | 24.5   | 25.8   | 27.1   |
| 97.5°  | 123.7  | 126.1  | 114.5  | 91.3   | 68.2   | 45.0   | 21.8   | 22.9   | 24.0   | 25.1   | 26.2   |
| 100°   | 178.6  | 180.6  | 165.4  | 135.0  | 104.5  | 74.1   | 43.7   | 39.9   | 36.2   | 32.4   | 28.7   |
| 102.5° | 238.9  | 240.2  | 241.5  | 244.2  | 246.8  | 249.5  | 252.1  | 202.5  | 152.9  | 103.2  | 53.6   |
| 105°   | 304.0  | 304.7  | 305.3  | 306.4  | 307.5  | 308.6  | 309.7  | 311.7  | 313.7  | 315.6  | 317.6  |
| 107.5° | 365.9  | 366.2  | 367.0  | 368.5  | 370.1  | 371.6  | 373.2  | 374.3  | 375.4  | 376.5  | 377.6  |
| 110°   | 431.5  | 431.8  | 432.5  | 433.8  | 435.1  | 436.4  | 437.7  | 438.1  | 438.6  | 439.0  | 439.5  |

TEST NUMBER: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 497.6  | 498.3  | 498.5  | 498.9  | 499.4  | 499.8  | 500.2  | 500.0  | 499.8  | 499.5  | 499.3  |
| 115°   | 560.5  | 560.8  | 560.7  | 560.5  | 560.2  | 560.0  | 559.8  | 560.2  | 560.7  | 561.1  | 561.6  |
| 117.5° | 619.9  | 620.3  | 620.6  | 621.3  | 622.0  | 622.6  | 623.3  | 623.1  | 622.9  | 622.6  | 622.4  |
| 120°   | 679.5  | 679.9  | 679.8  | 679.6  | 679.3  | 679.1  | 678.9  | 679.3  | 679.8  | 680.2  | 680.7  |
| 122.5° | 733.3  | 733.5  | 733.7  | 734.2  | 734.6  | 735.1  | 735.5  | 735.7  | 735.9  | 736.2  | 736.4  |
| 125°   | 787.7  | 788.1  | 787.9  | 787.4  | 787.0  | 786.5  | 786.1  | 786.8  | 787.4  | 788.1  | 788.8  |
| 127.5° | 835.6  | 835.7  | 836.3  | 837.4  | 838.5  | 839.6  | 840.7  | 840.5  | 840.3  | 840.0  | 839.8  |
| 130°   | 884.2  | 884.3  | 884.6  | 885.3  | 886.0  | 886.6  | 887.3  | 887.5  | 887.7  | 888.0  | 888.2  |
| 132.5° | 929.8  | 930.0  | 930.4  | 931.3  | 932.2  | 933.1  | 934.0  | 934.2  | 934.4  | 934.7  | 934.9  |
| 135°   | 971.8  | 971.7  | 972.1  | 973.0  | 973.9  | 974.8  | 975.7  | 976.1  | 976.5  | 977.0  | 977.4  |
| 137.5° | 1012.4 | 1012.4 | 1012.9 | 1014.0 | 1015.1 | 1016.2 | 1017.3 | 1017.7 | 1018.2 | 1018.6 | 1019.1 |
| 140°   | 1052.9 | 1053.1 | 1053.3 | 1053.8 | 1054.2 | 1054.7 | 1055.1 | 1055.7 | 1056.4 | 1057.0 | 1057.7 |
| 142.5° | 1089.4 | 1089.8 | 1089.9 | 1090.1 | 1090.4 | 1090.6 | 1090.8 | 1091.2 | 1091.7 | 1092.1 | 1092.6 |
| 145°   | 1124.2 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.7 | 1124.9 | 1125.2 | 1125.4 |
| 147.5° | 1154.6 | 1155.3 | 1155.2 | 1155.0 | 1154.7 | 1154.5 | 1154.3 | 1154.5 | 1154.7 | 1155.0 | 1155.2 |
| 150°   | 1183.7 | 1184.1 | 1184.0 | 1183.8 | 1183.5 | 1183.3 | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.1 |
| 152.5° | 1208.6 | 1208.9 | 1208.7 | 1208.2 | 1207.8 | 1207.3 | 1206.9 | 1207.3 | 1207.8 | 1208.2 | 1208.7 |
| 155°   | 1230.6 | 1230.7 | 1230.4 | 1229.7 | 1229.1 | 1228.4 | 1227.8 | 1228.7 | 1229.5 | 1230.4 | 1231.3 |
| 157.5° | 1250.6 | 1250.6 | 1250.2 | 1249.3 | 1248.4 | 1247.5 | 1246.6 | 1247.7 | 1248.8 | 1249.9 | 1251.0 |
| 160°   | 1265.8 | 1265.5 | 1265.4 | 1265.2 | 1264.9 | 1264.7 | 1264.5 | 1265.8 | 1267.1 | 1268.4 | 1269.7 |
| 162.5° | 1280.8 | 1280.4 | 1280.3 | 1280.1 | 1279.8 | 1279.6 | 1279.4 | 1280.7 | 1282.0 | 1283.3 | 1284.6 |
| 165°   | 1292.8 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1294.1 | 1295.8 | 1297.6 | 1299.3 |
| 167.5° | 1303.8 | 1303.2 | 1303.1 | 1302.9 | 1302.6 | 1302.4 | 1302.2 | 1304.2 | 1306.2 | 1308.1 | 1310.1 |
| 170°   | 1311.8 | 1311.1 | 1311.2 | 1311.4 | 1311.7 | 1311.9 | 1312.1 | 1313.9 | 1315.7 | 1317.4 | 1319.2 |
| 172.5° | 1317.8 | 1317.1 | 1317.2 | 1317.4 | 1317.7 | 1317.9 | 1318.1 | 1319.9 | 1321.6 | 1323.4 | 1325.1 |
| 175°   | 1321.8 | 1321.1 | 1321.2 | 1321.4 | 1321.7 | 1321.9 | 1322.1 | 1324.1 | 1326.1 | 1328.0 | 1330.0 |
| 177.5° | 1323.8 | 1323.0 | 1323.2 | 1323.7 | 1324.1 | 1324.6 | 1325.0 | 1326.8 | 1328.6 | 1330.3 | 1332.1 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

TEST NUMBER: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1572.1 | 1570.7 | 1563.8 | 1566.5 | 1558.3 | 1561.0 | 1565.2 | 1566.5 | 1572.1 | 1567.9 | 1566.5 |
| 5°     | 1475.5 | 1472.7 | 1468.6 | 1464.4 | 1463.0 | 1468.6 | 1458.9 | 1461.7 | 1464.4 | 1468.6 | 1474.1 |
| 7.5°   | 1396.8 | 1395.4 | 1391.3 | 1384.4 | 1381.6 | 1378.8 | 1380.2 | 1389.9 | 1388.5 | 1387.1 | 1396.8 |
| 10°    | 1325.0 | 1326.4 | 1318.1 | 1316.7 | 1308.4 | 1307.1 | 1308.4 | 1311.2 | 1315.3 | 1320.9 | 1322.3 |
| 12.5°  | 1250.5 | 1268.4 | 1253.2 | 1247.7 | 1235.3 | 1242.2 | 1245.0 | 1232.5 | 1239.4 | 1243.6 | 1264.3 |
| 15°    | 1203.6 | 1195.3 | 1185.6 | 1185.6 | 1180.1 | 1177.3 | 1170.4 | 1180.1 | 1185.6 | 1193.9 | 1191.1 |
| 17.5°  | 1138.7 | 1124.9 | 1119.4 | 1113.8 | 1115.2 | 1120.7 | 1105.6 | 1127.6 | 1127.6 | 1131.8 | 1124.9 |
| 20°    | 1082.1 | 1071.1 | 1064.1 | 1061.4 | 1057.2 | 1054.5 | 1053.1 | 1058.6 | 1066.9 | 1069.7 | 1076.6 |
| 22.5°  | 1022.7 | 1022.7 | 1011.7 | 1007.6 | 1004.8 | 1000.7 | 1007.6 | 1003.4 | 1008.9 | 1014.5 | 1025.5 |
| 25°    | 973.1  | 973.1  | 968.9  | 963.4  | 959.3  | 956.5  | 960.6  | 959.3  | 963.4  | 970.3  | 973.1  |
| 27.5°  | 933.0  | 928.9  | 927.5  | 926.1  | 924.7  | 926.1  | 924.7  | 928.9  | 933.0  | 934.4  | 931.6  |
| 30°    | 898.5  | 894.4  | 895.8  | 895.8  | 897.1  | 895.8  | 894.4  | 898.5  | 899.9  | 897.1  | 898.5  |
| 32.5°  | 866.8  | 866.8  | 869.5  | 870.9  | 870.9  | 872.3  | 873.7  | 870.9  | 872.3  | 868.2  | 869.5  |
| 35°    | 840.6  | 843.3  | 846.1  | 847.5  | 848.8  | 847.5  | 850.2  | 848.8  | 846.1  | 843.3  | 841.9  |
| 37.5°  | 814.3  | 817.1  | 822.6  | 824.0  | 828.1  | 829.5  | 826.8  | 826.8  | 825.4  | 819.9  | 817.1  |
| 40°    | 786.7  | 789.5  | 796.4  | 800.5  | 803.3  | 807.4  | 804.7  | 804.7  | 799.1  | 793.6  | 789.5  |
| 42.5°  | 760.5  | 766.0  | 772.9  | 777.1  | 782.6  | 782.6  | 782.6  | 779.8  | 772.9  | 767.4  | 763.3  |
| 45°    | 734.3  | 735.7  | 745.3  | 752.2  | 757.7  | 757.7  | 757.7  | 753.6  | 749.5  | 738.4  | 732.9  |
| 47.5°  | 705.3  | 709.4  | 720.5  | 727.4  | 732.9  | 734.3  | 734.3  | 730.1  | 721.9  | 712.2  | 705.3  |
| 50°    | 673.5  | 680.4  | 692.9  | 702.5  | 709.4  | 712.2  | 708.1  | 705.3  | 695.6  | 684.6  | 676.3  |
| 52.5°  | 643.2  | 651.5  | 666.6  | 674.9  | 684.6  | 686.0  | 684.6  | 680.4  | 669.4  | 654.2  | 647.3  |
| 55°    | 612.8  | 619.7  | 636.3  | 650.1  | 658.4  | 661.1  | 658.4  | 651.5  | 637.7  | 622.5  | 615.6  |
| 57.5°  | 579.7  | 589.4  | 607.3  | 621.1  | 630.8  | 632.1  | 629.4  | 622.5  | 611.4  | 592.1  | 582.5  |
| 60°    | 545.2  | 557.6  | 575.6  | 589.4  | 601.8  | 603.2  | 600.4  | 590.7  | 576.9  | 557.6  | 549.3  |
| 62.5°  | 510.7  | 520.3  | 541.0  | 556.2  | 565.9  | 572.8  | 567.3  | 557.6  | 543.8  | 524.5  | 512.1  |
| 65°    | 470.7  | 484.5  | 502.4  | 516.2  | 527.2  | 528.6  | 525.9  | 517.6  | 502.4  | 481.7  | 472.0  |
| 67.5°  | 432.0  | 441.7  | 459.6  | 477.6  | 481.7  | 485.8  | 481.7  | 473.4  | 461.0  | 443.1  | 429.2  |
| 70°    | 385.1  | 393.4  | 415.4  | 427.9  | 433.4  | 437.5  | 434.8  | 426.5  | 415.4  | 398.9  | 387.8  |
| 72.5°  | 338.2  | 345.1  | 365.8  | 375.4  | 386.5  | 385.1  | 383.7  | 378.2  | 363.0  | 352.0  | 345.1  |
| 75°    | 288.5  | 296.7  | 310.5  | 323.0  | 327.1  | 327.1  | 327.1  | 323.0  | 313.3  | 295.4  | 288.5  |
| 77.5°  | 242.9  | 247.1  | 258.1  | 265.0  | 269.1  | 270.5  | 269.1  | 262.2  | 256.7  | 244.3  | 240.2  |
| 80°    | 186.3  | 197.4  | 205.7  | 207.0  | 212.6  | 212.6  | 212.6  | 209.8  | 204.3  | 191.9  | 190.5  |
| 82.5°  | 140.8  | 143.5  | 151.8  | 156.0  | 158.7  | 157.3  | 157.3  | 151.8  | 150.4  | 143.5  | 140.8  |
| 85°    | 95.2   | 99.4   | 98.0   | 103.5  | 104.9  | 102.1  | 102.1  | 104.9  | 98.0   | 99.4   | 95.2   |
| 87.5°  | 52.4   | 52.4   | 55.2   | 53.8   | 59.3   | 59.3   | 56.6   | 58.0   | 55.2   | 53.8   | 52.4   |
| 90°    | 27.8   | 28.0   | 28.5   | 28.9   | 29.4   | 29.8   | 29.4   | 28.9   | 28.5   | 28.0   | 27.8   |
| 92.5°  | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   |
| 95°    | 27.8   | 27.9   | 28.1   | 28.4   | 28.6   | 28.8   | 28.6   | 28.4   | 28.1   | 27.9   | 27.8   |
| 97.5°  | 26.8   | 26.9   | 27.1   | 27.4   | 27.6   | 27.8   | 27.6   | 27.4   | 27.1   | 26.9   | 26.8   |
| 100°   | 26.8   | 26.9   | 27.1   | 27.4   | 27.6   | 27.8   | 27.6   | 27.4   | 27.1   | 26.9   | 26.8   |
| 102.5° | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   |
| 105°   | 318.6  | 314.6  | 306.7  | 298.8  | 290.8  | 282.9  | 290.8  | 298.8  | 306.7  | 314.6  | 318.6  |
| 107.5° | 378.2  | 378.6  | 379.5  | 380.4  | 381.2  | 382.1  | 381.2  | 380.4  | 379.5  | 378.6  | 378.2  |
| 110°   | 439.7  | 440.0  | 440.7  | 441.4  | 442.0  | 442.7  | 442.0  | 441.4  | 440.7  | 440.0  | 439.7  |

TEST NUMBER: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 499.2  | 499.6  | 500.5  | 501.4  | 502.3  | 503.2  | 502.3  | 501.4  | 500.5  | 499.6  | 499.2  |
| 115°   | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  | 561.8  |
| 117.5° | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  | 622.3  |
| 120°   | 680.9  | 680.7  | 680.2  | 679.8  | 679.3  | 678.9  | 679.3  | 679.8  | 680.2  | 680.7  | 680.9  |
| 122.5° | 736.5  | 736.3  | 735.8  | 735.4  | 734.9  | 734.5  | 734.9  | 735.4  | 735.8  | 736.3  | 736.5  |
| 125°   | 789.1  | 789.2  | 789.4  | 789.7  | 789.9  | 790.1  | 789.9  | 789.7  | 789.4  | 789.2  | 789.1  |
| 127.5° | 839.7  | 839.6  | 839.4  | 839.1  | 838.9  | 838.7  | 838.9  | 839.1  | 839.4  | 839.6  | 839.7  |
| 130°   | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  | 888.3  |
| 132.5° | 935.0  | 934.9  | 934.7  | 934.4  | 934.2  | 934.0  | 934.2  | 934.4  | 934.7  | 934.9  | 935.0  |
| 135°   | 977.6  | 977.8  | 978.3  | 978.7  | 979.2  | 979.6  | 979.2  | 978.7  | 978.3  | 977.8  | 977.6  |
| 137.5° | 1019.3 | 1019.2 | 1019.0 | 1018.7 | 1018.5 | 1018.3 | 1018.5 | 1018.7 | 1019.0 | 1019.2 | 1019.3 |
| 140°   | 1058.0 | 1058.1 | 1058.3 | 1058.6 | 1058.8 | 1059.0 | 1058.8 | 1058.6 | 1058.3 | 1058.1 | 1058.0 |
| 142.5° | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 | 1092.8 |
| 145°   | 1125.5 | 1125.7 | 1126.2 | 1126.6 | 1127.1 | 1127.5 | 1127.1 | 1126.6 | 1126.2 | 1125.7 | 1125.5 |
| 147.5° | 1155.3 | 1155.4 | 1155.6 | 1155.9 | 1156.1 | 1156.3 | 1156.1 | 1155.9 | 1155.6 | 1155.4 | 1155.3 |
| 150°   | 1183.1 | 1183.2 | 1183.4 | 1183.7 | 1183.9 | 1184.1 | 1183.9 | 1183.7 | 1183.4 | 1183.2 | 1183.1 |
| 152.5° | 1208.9 | 1208.8 | 1208.6 | 1208.3 | 1208.1 | 1207.9 | 1208.1 | 1208.3 | 1208.6 | 1208.8 | 1208.9 |
| 155°   | 1231.7 | 1231.4 | 1230.7 | 1230.1 | 1229.4 | 1228.8 | 1229.4 | 1230.1 | 1230.7 | 1231.4 | 1231.7 |
| 157.5° | 1251.6 | 1251.0 | 1249.9 | 1248.8 | 1247.7 | 1246.6 | 1247.7 | 1248.8 | 1249.9 | 1251.0 | 1251.6 |
| 160°   | 1270.4 | 1269.7 | 1268.4 | 1267.1 | 1265.8 | 1264.5 | 1265.8 | 1267.1 | 1268.4 | 1269.7 | 1270.4 |
| 162.5° | 1285.3 | 1284.5 | 1283.0 | 1281.5 | 1279.9 | 1278.4 | 1279.9 | 1281.5 | 1283.0 | 1284.5 | 1285.3 |
| 165°   | 1300.2 | 1299.2 | 1297.2 | 1295.3 | 1293.3 | 1291.3 | 1293.3 | 1295.3 | 1297.2 | 1299.2 | 1300.2 |
| 167.5° | 1311.1 | 1310.0 | 1307.8 | 1305.6 | 1303.4 | 1301.2 | 1303.4 | 1305.6 | 1307.8 | 1310.0 | 1311.1 |
| 170°   | 1320.1 | 1319.0 | 1316.8 | 1314.5 | 1312.3 | 1310.1 | 1312.3 | 1314.5 | 1316.8 | 1319.0 | 1320.1 |
| 172.5° | 1326.0 | 1324.8 | 1322.4 | 1319.9 | 1317.5 | 1315.1 | 1317.5 | 1319.9 | 1322.4 | 1324.8 | 1326.0 |
| 175°   | 1331.0 | 1329.7 | 1327.0 | 1324.4 | 1321.7 | 1319.1 | 1321.7 | 1324.4 | 1327.0 | 1329.7 | 1331.0 |
| 177.5° | 1333.0 | 1331.7 | 1329.0 | 1326.4 | 1323.7 | 1321.1 | 1323.7 | 1326.4 | 1329.0 | 1331.7 | 1333.0 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

TEST NUMBER: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1566.5 | 1574.8 | 1566.5 | 1572.1 | 1574.8 | 1581.7 | 1584.5 | 1596.9 | 1601.1 | 1610.7 | 1610.7 |
| 5°     | 1472.7 | 1476.8 | 1478.2 | 1483.7 | 1489.3 | 1503.1 | 1512.7 | 1530.7 | 1551.4 | 1554.1 | 1566.5 |
| 7.5°   | 1396.8 | 1403.7 | 1414.7 | 1410.6 | 1420.2 | 1440.9 | 1453.4 | 1475.5 | 1496.2 | 1507.2 | 1522.4 |
| 10°    | 1329.2 | 1337.4 | 1341.6 | 1345.7 | 1363.7 | 1381.6 | 1400.9 | 1416.1 | 1443.7 | 1460.3 | 1472.7 |
| 12.5°  | 1273.9 | 1267.0 | 1275.3 | 1290.5 | 1311.2 | 1322.3 | 1348.5 | 1371.9 | 1392.6 | 1410.6 | 1421.6 |
| 15°    | 1202.2 | 1207.7 | 1216.0 | 1242.2 | 1247.7 | 1275.3 | 1285.0 | 1311.2 | 1349.9 | 1366.4 | 1380.2 |
| 17.5°  | 1133.2 | 1151.1 | 1167.7 | 1177.3 | 1193.9 | 1216.0 | 1243.6 | 1272.6 | 1297.4 | 1316.7 | 1333.3 |
| 20°    | 1078.0 | 1095.9 | 1105.6 | 1112.5 | 1129.0 | 1159.4 | 1185.6 | 1221.5 | 1253.2 | 1268.4 | 1290.5 |
| 22.5°  | 1033.8 | 1033.8 | 1047.6 | 1068.3 | 1078.0 | 1106.9 | 1129.0 | 1167.7 | 1202.2 | 1221.5 | 1242.2 |
| 25°    | 978.6  | 986.9  | 997.9  | 1015.8 | 1029.6 | 1053.1 | 1084.9 | 1118.0 | 1155.2 | 1171.8 | 1198.0 |
| 27.5°  | 933.0  | 942.7  | 957.9  | 962.0  | 975.8  | 996.5  | 1029.6 | 1065.5 | 1104.2 | 1122.1 | 1144.2 |
| 30°    | 898.5  | 904.0  | 909.6  | 917.8  | 930.3  | 948.2  | 975.8  | 1007.6 | 1054.5 | 1068.3 | 1095.9 |
| 32.5°  | 868.2  | 870.9  | 873.7  | 880.6  | 887.5  | 905.4  | 927.5  | 962.0  | 1000.7 | 1021.4 | 1046.2 |
| 35°    | 840.6  | 837.8  | 839.2  | 843.3  | 850.2  | 857.1  | 880.6  | 909.6  | 945.5  | 970.3  | 989.6  |
| 37.5°  | 814.3  | 808.8  | 807.4  | 807.4  | 810.2  | 818.5  | 836.4  | 861.3  | 899.9  | 920.6  | 939.9  |
| 40°    | 785.3  | 779.8  | 777.1  | 775.7  | 774.3  | 779.8  | 793.6  | 818.5  | 848.8  | 868.2  | 890.2  |
| 42.5°  | 757.7  | 752.2  | 745.3  | 743.9  | 741.2  | 743.9  | 753.6  | 777.1  | 803.3  | 822.6  | 840.6  |
| 45°    | 730.1  | 720.5  | 712.2  | 706.7  | 708.1  | 703.9  | 710.8  | 728.8  | 759.1  | 771.5  | 789.5  |
| 47.5°  | 699.8  | 688.7  | 677.7  | 672.2  | 666.6  | 669.4  | 672.2  | 687.3  | 713.6  | 726.0  | 743.9  |
| 50°    | 670.8  | 655.6  | 643.2  | 636.3  | 632.1  | 629.4  | 632.1  | 647.3  | 666.6  | 677.7  | 692.9  |
| 52.5°  | 637.7  | 622.5  | 610.1  | 599.0  | 593.5  | 589.4  | 590.7  | 604.5  | 622.5  | 633.5  | 648.7  |
| 55°    | 607.3  | 588.0  | 571.4  | 557.6  | 553.5  | 552.1  | 550.7  | 560.4  | 575.6  | 586.6  | 599.0  |
| 57.5°  | 572.8  | 553.5  | 535.5  | 519.0  | 510.7  | 509.3  | 509.3  | 512.1  | 531.4  | 539.7  | 546.6  |
| 60°    | 538.3  | 517.6  | 498.3  | 483.1  | 470.7  | 466.5  | 465.1  | 470.7  | 480.3  | 488.6  | 498.3  |
| 62.5°  | 499.6  | 478.9  | 455.5  | 441.7  | 429.2  | 418.2  | 422.3  | 423.7  | 437.5  | 441.7  | 450.0  |
| 65°    | 462.4  | 438.9  | 419.6  | 397.5  | 383.7  | 376.8  | 374.0  | 376.8  | 387.8  | 389.2  | 394.7  |
| 67.5°  | 419.6  | 397.5  | 374.0  | 358.9  | 346.4  | 334.0  | 331.3  | 331.3  | 336.8  | 340.9  | 347.8  |
| 70°    | 378.2  | 356.1  | 329.9  | 313.3  | 300.9  | 289.8  | 285.7  | 284.3  | 288.5  | 291.2  | 298.1  |
| 72.5°  | 329.9  | 307.8  | 288.5  | 270.5  | 255.3  | 247.1  | 242.9  | 240.2  | 244.3  | 247.1  | 248.4  |
| 75°    | 278.8  | 260.9  | 241.5  | 223.6  | 213.9  | 205.7  | 200.1  | 196.0  | 198.8  | 198.8  | 198.8  |
| 77.5°  | 230.5  | 212.6  | 197.4  | 184.9  | 172.5  | 162.9  | 158.7  | 154.6  | 156.0  | 156.0  | 158.7  |
| 80°    | 179.4  | 167.0  | 154.6  | 143.5  | 132.5  | 124.2  | 121.5  | 117.3  | 114.6  | 113.2  | 113.2  |
| 82.5°  | 132.5  | 122.8  | 111.8  | 102.1  | 96.6   | 88.3   | 85.6   | 80.1   | 80.1   | 78.7   | 78.7   |
| 85°    | 88.3   | 82.8   | 71.8   | 64.9   | 60.7   | 56.6   | 53.8   | 51.1   | 46.9   | 46.9   | 45.5   |
| 87.5°  | 46.9   | 44.2   | 41.4   | 33.1   | 33.1   | 29.0   | 27.6   | 26.2   | 22.1   | 23.5   | 23.5   |
| 90°    | 27.1   | 25.8   | 24.5   | 23.1   | 21.8   | 20.0   | 18.3   | 16.5   | 14.8   | 13.9   | 12.7   |
| 92.5°  | 26.1   | 24.8   | 23.5   | 22.1   | 20.8   | 19.0   | 17.3   | 15.5   | 13.8   | 12.9   | 13.1   |
| 95°    | 27.1   | 25.8   | 24.5   | 23.1   | 21.8   | 21.6   | 21.4   | 21.1   | 20.9   | 20.8   | 24.6   |
| 97.5°  | 26.2   | 25.1   | 24.0   | 22.9   | 21.8   | 45.0   | 68.2   | 91.3   | 114.5  | 126.1  | 123.7  |
| 100°   | 28.7   | 32.4   | 36.2   | 39.9   | 43.7   | 74.1   | 104.5  | 135.0  | 165.4  | 180.6  | 178.6  |
| 102.5° | 53.6   | 103.2  | 152.9  | 202.5  | 252.1  | 249.5  | 246.8  | 244.2  | 241.5  | 240.2  | 238.9  |
| 105°   | 317.6  | 315.6  | 313.7  | 311.7  | 309.7  | 308.6  | 307.5  | 306.4  | 305.3  | 304.7  | 304.0  |
| 107.5° | 377.6  | 376.5  | 375.4  | 374.3  | 373.2  | 371.6  | 370.1  | 368.5  | 367.0  | 366.2  | 365.9  |
| 110°   | 439.5  | 439.0  | 438.6  | 438.1  | 437.7  | 436.4  | 435.1  | 433.8  | 432.5  | 431.8  | 431.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 499.3  | 499.5  | 499.8  | 500.0  | 500.2  | 499.8  | 499.4  | 498.9  | 498.5  | 498.3  | 497.6  |
| 115°   | 561.6  | 561.1  | 560.7  | 560.2  | 559.8  | 560.0  | 560.2  | 560.5  | 560.7  | 560.8  | 560.5  |
| 117.5° | 622.4  | 622.6  | 622.9  | 623.1  | 623.3  | 622.6  | 622.0  | 621.3  | 620.6  | 620.3  | 619.9  |
| 120°   | 680.7  | 680.2  | 679.8  | 679.3  | 678.9  | 679.1  | 679.3  | 679.6  | 679.8  | 679.9  | 679.5  |
| 122.5° | 736.4  | 736.2  | 735.9  | 735.7  | 735.5  | 735.1  | 734.6  | 734.2  | 733.7  | 733.5  | 733.3  |
| 125°   | 788.8  | 788.1  | 787.4  | 786.8  | 786.1  | 786.5  | 787.0  | 787.4  | 787.9  | 788.1  | 787.7  |
| 127.5° | 839.8  | 840.0  | 840.3  | 840.5  | 840.7  | 839.6  | 838.5  | 837.4  | 836.3  | 835.7  | 835.6  |
| 130°   | 888.2  | 888.0  | 887.7  | 887.5  | 887.3  | 886.6  | 886.0  | 885.3  | 884.6  | 884.3  | 884.2  |
| 132.5° | 934.9  | 934.7  | 934.4  | 934.2  | 934.0  | 933.1  | 932.2  | 931.3  | 930.4  | 930.0  | 929.8  |
| 135°   | 977.4  | 977.0  | 976.5  | 976.1  | 975.7  | 974.8  | 973.9  | 973.0  | 972.1  | 971.7  | 971.8  |
| 137.5° | 1019.1 | 1018.6 | 1018.2 | 1017.7 | 1017.3 | 1016.2 | 1015.1 | 1014.0 | 1012.9 | 1012.4 | 1012.4 |
| 140°   | 1057.7 | 1057.0 | 1056.4 | 1055.7 | 1055.1 | 1054.7 | 1054.2 | 1053.8 | 1053.3 | 1053.1 | 1052.9 |
| 142.5° | 1092.6 | 1092.1 | 1091.7 | 1091.2 | 1090.8 | 1090.6 | 1090.4 | 1090.1 | 1089.9 | 1089.8 | 1089.4 |
| 145°   | 1125.4 | 1125.2 | 1124.9 | 1124.7 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.2 |
| 147.5° | 1155.2 | 1155.0 | 1154.7 | 1154.5 | 1154.3 | 1154.5 | 1154.7 | 1155.0 | 1155.2 | 1155.3 | 1154.6 |
| 150°   | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.1 | 1183.3 | 1183.5 | 1183.8 | 1184.0 | 1184.1 | 1183.7 |
| 152.5° | 1208.7 | 1208.2 | 1207.8 | 1207.3 | 1206.9 | 1207.3 | 1207.8 | 1208.2 | 1208.7 | 1208.9 | 1208.6 |
| 155°   | 1231.3 | 1230.4 | 1229.5 | 1228.7 | 1227.8 | 1228.4 | 1229.1 | 1229.7 | 1230.4 | 1230.7 | 1230.6 |
| 157.5° | 1251.0 | 1249.9 | 1248.8 | 1247.7 | 1246.6 | 1247.5 | 1248.4 | 1249.3 | 1250.2 | 1250.6 | 1250.6 |
| 160°   | 1269.7 | 1268.4 | 1267.1 | 1265.8 | 1264.5 | 1264.7 | 1264.9 | 1265.2 | 1265.4 | 1265.5 | 1265.8 |
| 162.5° | 1284.6 | 1283.3 | 1282.0 | 1280.7 | 1279.4 | 1279.6 | 1279.8 | 1280.1 | 1280.3 | 1280.4 | 1280.8 |
| 165°   | 1299.3 | 1297.6 | 1295.8 | 1294.1 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.3 | 1292.8 |
| 167.5° | 1310.1 | 1308.1 | 1306.2 | 1304.2 | 1302.2 | 1302.4 | 1302.6 | 1302.9 | 1303.1 | 1303.2 | 1303.8 |
| 170°   | 1319.2 | 1317.4 | 1315.7 | 1313.9 | 1312.1 | 1311.9 | 1311.7 | 1311.4 | 1311.2 | 1311.1 | 1311.8 |
| 172.5° | 1325.1 | 1323.4 | 1321.6 | 1319.9 | 1318.1 | 1317.9 | 1317.7 | 1317.4 | 1317.2 | 1317.1 | 1317.8 |
| 175°   | 1330.0 | 1328.0 | 1326.1 | 1324.1 | 1322.1 | 1321.9 | 1321.7 | 1321.4 | 1321.2 | 1321.1 | 1321.8 |
| 177.5° | 1332.1 | 1330.3 | 1328.6 | 1326.8 | 1325.0 | 1324.6 | 1324.1 | 1323.7 | 1323.2 | 1323.0 | 1323.8 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

TEST NUMBER: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1665.9 | 1665.9 | 1665.9 | 1665.9 |
| 2.5°   | 1620.4 | 1634.2 | 1646.6 | 1665.9 |
| 5°     | 1584.5 | 1603.8 | 1630.0 | 1659.0 |
| 7.5°   | 1543.1 | 1573.5 | 1608.0 | 1648.0 |
| 10°    | 1504.4 | 1538.9 | 1583.1 | 1631.4 |
| 12.5°  | 1464.4 | 1505.8 | 1554.1 | 1606.6 |
| 15°    | 1418.9 | 1460.3 | 1514.1 | 1584.5 |
| 17.5°  | 1377.5 | 1427.1 | 1485.1 | 1559.6 |
| 20°    | 1329.2 | 1376.1 | 1439.6 | 1525.1 |
| 22.5°  | 1286.4 | 1340.2 | 1410.6 | 1485.1 |
| 25°    | 1239.4 | 1286.4 | 1356.8 | 1446.5 |
| 27.5°  | 1192.5 | 1250.5 | 1318.1 | 1405.1 |
| 30°    | 1147.0 | 1195.3 | 1268.4 | 1359.5 |
| 32.5°  | 1097.3 | 1155.2 | 1222.9 | 1308.4 |
| 35°    | 1043.4 | 1098.7 | 1162.1 | 1254.6 |
| 37.5°  | 995.1  | 1049.0 | 1113.8 | 1195.3 |
| 40°    | 941.3  | 997.9  | 1057.2 | 1138.7 |
| 42.5°  | 888.9  | 939.9  | 999.3  | 1073.8 |
| 45°    | 837.8  | 882.0  | 935.8  | 1000.7 |
| 47.5°  | 785.3  | 822.6  | 872.3  | 930.3  |
| 50°    | 728.8  | 768.8  | 806.0  | 854.4  |
| 52.5°  | 676.3  | 710.8  | 741.2  | 781.2  |
| 55°    | 625.2  | 648.7  | 673.5  | 703.9  |
| 57.5°  | 571.4  | 589.4  | 607.3  | 639.0  |
| 60°    | 517.6  | 534.1  | 543.8  | 564.5  |
| 62.5°  | 465.1  | 472.0  | 484.5  | 496.9  |
| 65°    | 407.2  | 416.8  | 423.7  | 438.9  |
| 67.5°  | 354.7  | 358.9  | 365.8  | 375.4  |
| 70°    | 299.5  | 309.2  | 311.9  | 318.8  |
| 72.5°  | 252.6  | 256.7  | 259.5  | 260.9  |
| 75°    | 200.1  | 204.3  | 207.0  | 215.3  |
| 77.5°  | 157.3  | 156.0  | 161.5  | 162.9  |
| 80°    | 115.9  | 111.8  | 113.2  | 118.7  |
| 82.5°  | 75.9   | 77.3   | 75.9   | 75.9   |
| 85°    | 46.9   | 45.5   | 42.8   | 44.2   |
| 87.5°  | 20.7   | 20.7   | 19.3   | 19.3   |
| 90°    | 10.3   | 7.8    | 5.4    | 3.0    |
| 92.5°  | 13.6   | 14.0   | 14.5   | 14.9   |
| 95°    | 32.1   | 39.6   | 47.1   | 54.6   |
| 97.5°  | 118.8  | 113.9  | 109.1  | 104.2  |
| 100°   | 174.7  | 170.7  | 166.8  | 162.8  |
| 102.5° | 236.2  | 233.6  | 230.9  | 228.3  |
| 105°   | 302.7  | 301.4  | 300.1  | 298.8  |
| 107.5° | 365.2  | 364.6  | 363.9  | 363.3  |
| 110°   | 430.8  | 430.1  | 429.5  | 428.8  |



TEST NUMBER: P1012846

CATALOG NUMBER: S124DIP-B1020D1035UB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 496.3  | 495.0  | 493.6  | 492.3  |
| 115°   | 559.8  | 559.1  | 558.5  | 557.8  |
| 117.5° | 619.0  | 618.1  | 617.3  | 616.4  |
| 120°   | 678.6  | 677.7  | 676.8  | 675.9  |
| 122.5° | 732.8  | 732.4  | 731.9  | 731.5  |
| 125°   | 786.8  | 785.9  | 785.0  | 784.1  |
| 127.5° | 835.4  | 835.1  | 834.9  | 834.7  |
| 130°   | 884.0  | 883.8  | 883.6  | 883.4  |
| 132.5° | 929.3  | 928.9  | 928.4  | 928.0  |
| 135°   | 972.0  | 972.3  | 972.5  | 972.7  |
| 137.5° | 1012.4 | 1012.4 | 1012.4 | 1012.4 |
| 140°   | 1052.4 | 1052.0 | 1051.5 | 1051.1 |
| 142.5° | 1088.5 | 1087.6 | 1086.7 | 1085.8 |
| 145°   | 1123.5 | 1122.9 | 1122.2 | 1121.6 |
| 147.5° | 1153.3 | 1152.0 | 1150.7 | 1149.4 |
| 150°   | 1182.8 | 1181.9 | 1181.0 | 1180.1 |
| 152.5° | 1207.9 | 1207.2 | 1206.6 | 1205.9 |
| 155°   | 1230.4 | 1230.1 | 1229.9 | 1229.7 |
| 157.5° | 1250.6 | 1250.6 | 1250.6 | 1250.6 |
| 160°   | 1266.5 | 1267.2 | 1267.8 | 1268.5 |
| 162.5° | 1281.7 | 1282.6 | 1283.4 | 1284.3 |
| 165°   | 1293.9 | 1295.0 | 1296.1 | 1297.2 |
| 167.5° | 1304.9 | 1306.0 | 1307.1 | 1308.2 |
| 170°   | 1313.1 | 1314.4 | 1315.8 | 1317.1 |
| 172.5° | 1319.1 | 1320.4 | 1321.7 | 1323.0 |
| 175°   | 1323.1 | 1324.4 | 1325.7 | 1327.0 |
| 177.5° | 1325.3 | 1326.9 | 1328.4 | 1330.0 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

(END OF REPORT)