

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P997796

Luminaire Tested: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997796  
REPORT IS A COMBINATION OF REPORTS P983530 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K  
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

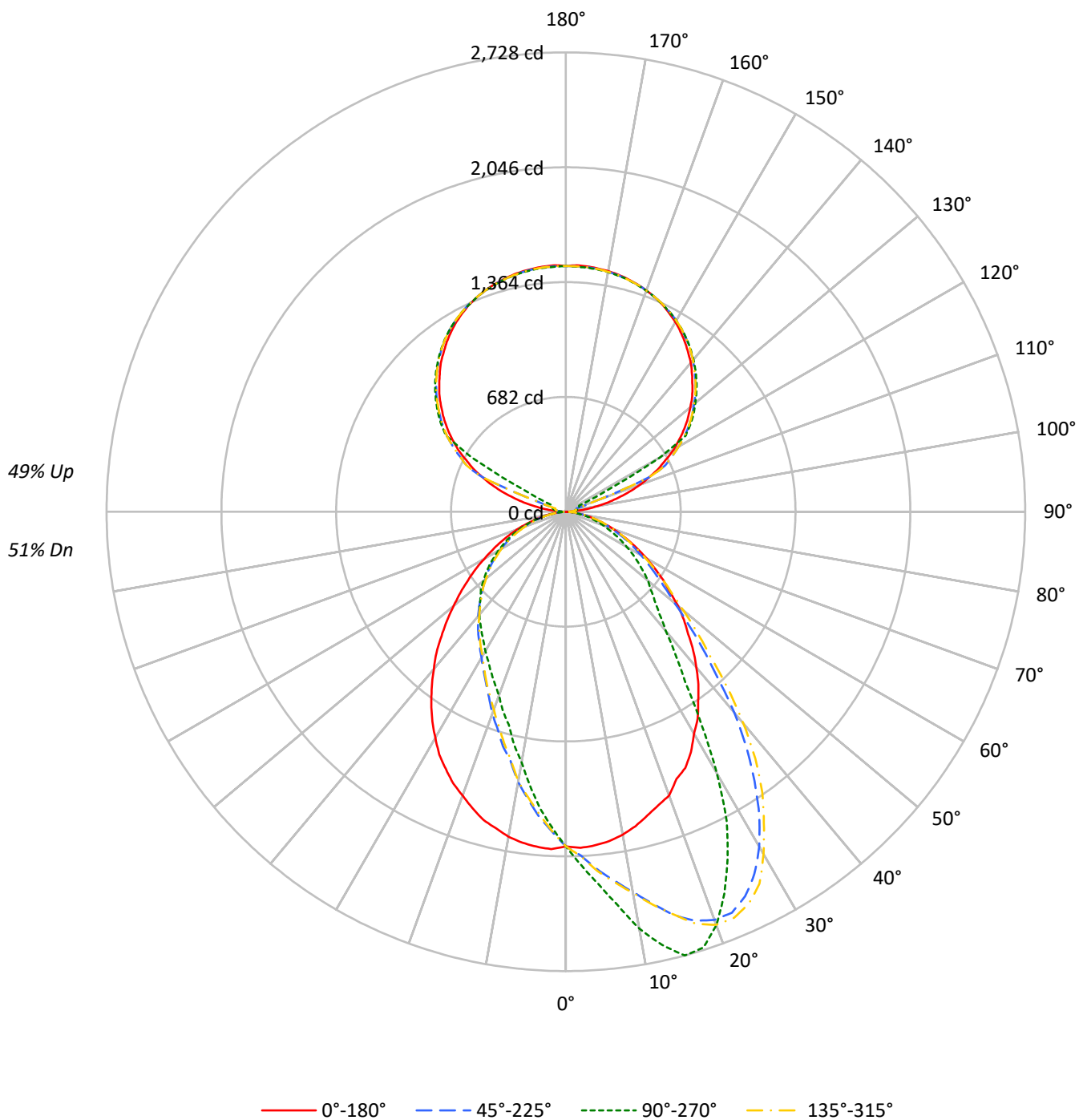
Lumens per Lamp: N/A  
Luminaire Lumens: 8666.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 96.3  
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: P997796

CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P997796

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 |
| 1   | 98  | 94  | 91  | 87  | 91 | 87 | 84 | 81 | 74 | 72 | 70 | 62 | 60 | 59 | 51 | 50 | 49 |
| 2   | 90  | 83  | 77  | 72  | 83 | 77 | 72 | 67 | 65 | 62 | 59 | 55 | 52 | 50 | 45 | 44 | 42 |
| 3   | 82  | 73  | 66  | 61  | 76 | 68 | 62 | 57 | 58 | 54 | 50 | 49 | 46 | 43 | 41 | 38 | 36 |
| 4   | 76  | 65  | 58  | 52  | 70 | 61 | 54 | 49 | 52 | 47 | 43 | 44 | 40 | 37 | 37 | 34 | 32 |
| 5   | 70  | 58  | 50  | 45  | 64 | 54 | 47 | 42 | 47 | 41 | 37 | 40 | 36 | 33 | 33 | 30 | 28 |
| 6   | 64  | 53  | 45  | 39  | 59 | 49 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 29 | 30 | 27 | 25 |
| 7   | 60  | 48  | 40  | 34  | 55 | 44 | 38 | 33 | 39 | 33 | 29 | 33 | 29 | 26 | 28 | 25 | 22 |
| 8   | 55  | 43  | 36  | 31  | 51 | 41 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 26 | 22 | 20 |
| 9   | 52  | 40  | 32  | 27  | 48 | 37 | 31 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 18 |
| 10  | 48  | 36  | 29  | 25  | 45 | 34 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 17 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 31453 | 31453 | 31453 | 31453 |
| 5°  | 31529 | 33537 | 31650 | 26682 |
| 10° | 31163 | 36611 | 31358 | 21997 |
| 15° | 30407 | 38616 | 30830 | 18529 |
| 20° | 29933 | 36257 | 29933 | 16106 |
| 25° | 28978 | 31149 | 29111 | 14402 |
| 30° | 27409 | 24486 | 27932 | 13045 |
| 35° | 26018 | 16932 | 26453 | 11936 |
| 40° | 24420 | 12783 | 24698 | 11051 |
| 45° | 22449 | 10505 | 22816 | 10096 |
| 50° | 20745 | 9220  | 20781 | 9242  |
| 55° | 18802 | 7857  | 18924 | 8315  |
| 60° | 16732 | 6563  | 16963 | 7257  |
| 65° | 14877 | 5338  | 15148 | 6198  |
| 70° | 13031 | 4187  | 13360 | 4999  |
| 75° | 10936 | 3039  | 11361 | 3625  |
| 80° | 8535  | 1926  | 9141  | 2151  |
| 85° | 5608  | 969   | 6046  | 717   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32514 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.3  | 2.2       |
| 10°-20°   | 550.9  | 6.4       |
| 20°-30°   | 799.5  | 9.2       |
| 30°-40°   | 842.8  | 9.7       |
| 40°-50°   | 745.8  | 8.6       |
| 50°-60°   | 595.5  | 6.9       |
| 60°-70°   | 404.5  | 4.7       |
| 70°-80°   | 207.0  | 2.4       |
| 80°-90°   | 51.5   | 0.6       |
| 90°-100°  | 48.2   | 0.6       |
| 100°-110° | 179.4  | 2.1       |
| 110°-120° | 475.9  | 5.5       |
| 120°-130° | 789.3  | 9.1       |
| 130°-140° | 838.4  | 9.7       |
| 140°-150° | 779.2  | 9.0       |
| 150°-160° | 626.5  | 7.2       |
| 160°-170° | 403.7  | 4.7       |
| 170°-180° | 138.9  | 1.6       |
| 0°-30°    | 1539.6 | 17.8      |
| 0°-40°    | 2382.4 | 27.5      |
| 0°-60°    | 3723.7 | 43.0      |
| 0°-90°    | 4386.6 | 50.6      |
| 90°-120°  | 703.5  | 8.1       |
| 90°-150°  | 3110.4 | 35.9      |
| 90°-180°  | 4279.0 | 49.4      |
| 0°-180°   | 8666.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1987 | 1987 | 1987 | 1987 | 1987 |      |
| 5°   | 1989 | 2219 | 1996 | 1766 | 1989 | 189  |
| 15°  | 1868 | 2728 | 1894 | 1309 | 1868 | 528  |
| 25°  | 1678 | 2273 | 1686 | 1051 | 1678 | 767  |
| 35°  | 1370 | 1237 | 1393 | 872  | 1370 | 857  |
| 45°  | 1028 | 745  | 1045 | 716  | 1028 | 797  |
| 55°  | 706  | 524  | 710  | 554  | 706  | 630  |
| 65°  | 418  | 322  | 426  | 374  | 418  | 416  |
| 75°  | 196  | 159  | 203  | 189  | 196  | 210  |
| 85°  | 40   | 41   | 43   | 30   | 40   | 46   |
| 90°  | 1    | 28   | 1    | 28   | 1    | 6    |
| 95°  | 69   | 45   | 69   | 45   | 69   | 81   |
| 105° | 321  | 80   | 321  | 80   | 321  | 343  |
| 115° | 607  | 87   | 607  | 87   | 607  | 598  |
| 125° | 859  | 903  | 859  | 903  | 859  | 766  |
| 135° | 1063 | 1097 | 1063 | 1097 | 1063 | 821  |
| 145° | 1233 | 1252 | 1233 | 1252 | 1233 | 771  |
| 155° | 1357 | 1358 | 1357 | 1358 | 1357 | 625  |
| 165° | 1430 | 1427 | 1430 | 1427 | 1430 | 404  |
| 175° | 1463 | 1454 | 1463 | 1454 | 1463 | 139  |
| 180° | 1460 | 1460 | 1460 | 1460 | 1460 |      |

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1997.7 | 2002.3 | 2009.9 | 2011.5 | 2026.7 | 2039.0 | 2052.7 | 2052.7 | 2057.3 | 2055.8 | 2043.5 |
| 5°     | 1988.6 | 2002.3 | 2022.2 | 2039.0 | 2066.5 | 2078.7 | 2097.0 | 2110.7 | 2123.0 | 2132.1 | 2130.6 |
| 7.5°   | 1973.3 | 1997.7 | 2026.7 | 2058.8 | 2095.5 | 2116.9 | 2142.8 | 2167.3 | 2184.1 | 2199.3 | 2210.0 |
| 10°    | 1947.3 | 1988.6 | 2028.3 | 2071.0 | 2118.4 | 2147.4 | 2177.9 | 2210.0 | 2236.0 | 2265.0 | 2292.5 |
| 12.5°  | 1912.2 | 1971.8 | 2020.6 | 2077.1 | 2135.2 | 2167.3 | 2216.1 | 2240.6 | 2291.0 | 2364.3 | 2384.1 |
| 15°    | 1867.9 | 1948.9 | 1994.7 | 2066.5 | 2142.8 | 2168.8 | 2236.0 | 2275.7 | 2379.6 | 2425.4 | 2480.4 |
| 17.5°  | 1826.7 | 1916.8 | 1977.9 | 2060.3 | 2135.2 | 2185.6 | 2251.3 | 2332.2 | 2419.3 | 2484.9 | 2546.0 |
| 20°    | 1793.1 | 1880.1 | 1953.4 | 2045.1 | 2139.8 | 2203.9 | 2272.6 | 2370.4 | 2465.1 | 2532.3 | 2579.6 |
| 22.5°  | 1716.7 | 1828.2 | 1913.7 | 2016.1 | 2130.6 | 2219.2 | 2284.9 | 2391.8 | 2494.1 | 2535.3 | 2576.6 |
| 25°    | 1678.5 | 1774.7 | 1874.0 | 1990.1 | 2124.5 | 2229.9 | 2286.4 | 2405.5 | 2495.6 | 2510.9 | 2520.1 |
| 27.5°  | 1608.3 | 1716.7 | 1832.8 | 1965.7 | 2123.0 | 2211.5 | 2283.3 | 2391.8 | 2463.6 | 2452.9 | 2425.4 |
| 30°    | 1521.2 | 1654.1 | 1782.4 | 1925.9 | 2101.6 | 2197.8 | 2265.0 | 2364.3 | 2400.9 | 2346.0 | 2297.1 |
| 32.5°  | 1457.1 | 1582.3 | 1724.3 | 1890.8 | 2077.1 | 2168.8 | 2234.5 | 2312.4 | 2320.0 | 2220.7 | 2138.2 |
| 35°    | 1370.0 | 1509.0 | 1669.4 | 1845.0 | 2035.9 | 2118.4 | 2179.5 | 2226.8 | 2190.2 | 2051.2 | 1953.4 |
| 37.5°  | 1292.1 | 1429.6 | 1600.6 | 1779.3 | 1979.4 | 2060.3 | 2109.2 | 2116.9 | 2026.7 | 1904.6 | 1761.0 |
| 40°    | 1206.6 | 1348.6 | 1527.3 | 1715.2 | 1916.8 | 1987.0 | 2017.6 | 1994.7 | 1864.8 | 1722.8 | 1556.3 |
| 42.5°  | 1121.0 | 1261.6 | 1454.0 | 1646.4 | 1837.4 | 1896.9 | 1909.1 | 1846.5 | 1687.7 | 1521.2 | 1328.8 |
| 45°    | 1027.9 | 1174.5 | 1366.9 | 1560.9 | 1745.7 | 1779.3 | 1780.8 | 1690.7 | 1502.9 | 1328.8 | 1150.1 |
| 47.5°  | 951.5  | 1087.4 | 1278.4 | 1472.3 | 1628.1 | 1651.0 | 1641.9 | 1538.0 | 1333.3 | 1137.8 | 982.1  |
| 50°    | 867.5  | 997.3  | 1186.7 | 1377.6 | 1510.5 | 1516.6 | 1493.7 | 1345.6 | 1145.5 | 966.8  | 843.1  |
| 52.5°  | 777.4  | 908.8  | 1082.9 | 1266.1 | 1385.3 | 1376.1 | 1331.8 | 1173.0 | 985.1  | 837.0  | 742.3  |
| 55°    | 705.6  | 821.7  | 985.1  | 1163.8 | 1247.8 | 1221.8 | 1173.0 | 1011.1 | 862.9  | 737.7  | 655.2  |
| 57.5°  | 626.2  | 728.5  | 888.9  | 1044.7 | 1093.6 | 1069.1 | 1020.2 | 869.0  | 731.6  | 636.9  | 581.9  |
| 60°    | 551.4  | 644.5  | 785.0  | 914.9  | 953.0  | 927.1  | 870.6  | 734.6  | 635.4  | 555.9  | 514.7  |
| 62.5°  | 482.6  | 563.6  | 681.2  | 800.3  | 815.6  | 789.6  | 740.7  | 630.8  | 545.3  | 482.6  | 452.1  |
| 65°    | 418.5  | 494.8  | 589.5  | 679.7  | 693.4  | 665.9  | 615.5  | 536.1  | 464.3  | 424.6  | 395.6  |
| 67.5°  | 355.9  | 417.0  | 501.0  | 566.6  | 574.3  | 548.3  | 507.1  | 442.9  | 398.6  | 355.9  | 334.5  |
| 70°    | 300.9  | 346.7  | 412.4  | 465.8  | 468.9  | 444.4  | 423.1  | 365.0  | 331.4  | 300.9  | 284.1  |
| 72.5°  | 247.4  | 279.5  | 329.9  | 369.6  | 371.1  | 355.9  | 336.0  | 299.4  | 270.3  | 249.0  | 232.2  |
| 75°    | 195.5  | 223.0  | 253.5  | 288.7  | 287.1  | 274.9  | 259.6  | 236.7  | 212.3  | 198.6  | 190.9  |
| 77.5°  | 149.7  | 166.5  | 190.9  | 213.8  | 213.8  | 207.7  | 198.6  | 181.8  | 166.5  | 152.7  | 145.1  |
| 80°    | 106.9  | 117.6  | 137.5  | 145.1  | 148.1  | 146.6  | 139.0  | 126.8  | 120.7  | 110.0  | 106.9  |
| 82.5°  | 68.7   | 76.4   | 85.5   | 93.2   | 97.7   | 94.7   | 93.2   | 87.1   | 77.9   | 74.8   | 71.8   |
| 85°    | 39.7   | 42.8   | 47.3   | 51.9   | 53.5   | 51.9   | 55.0   | 50.4   | 45.8   | 45.8   | 44.3   |
| 87.5°  | 16.8   | 18.3   | 21.4   | 21.4   | 22.9   | 22.9   | 21.4   | 22.9   | 22.9   | 21.4   | 19.9   |
| 90°    | 1.1    | 3.7    | 6.3    | 8.8    | 11.4   | 12.7   | 13.6   | 15.5   | 17.4   | 19.2   | 21.1   |
| 92.5°  | 26.4   | 25.5   | 24.5   | 23.6   | 22.7   | 22.2   | 22.5   | 23.2   | 23.9   | 24.6   | 25.3   |
| 95°    | 68.7   | 60.9   | 53.2   | 45.4   | 37.7   | 33.8   | 34.6   | 36.3   | 37.9   | 39.6   | 41.2   |
| 97.5°  | 123.6  | 104.4  | 85.1   | 65.9   | 46.6   | 37.0   | 38.9   | 42.6   | 46.4   | 50.1   | 53.9   |
| 100°   | 187.0  | 154.8  | 122.6  | 90.5   | 58.3   | 42.2   | 44.2   | 48.2   | 52.2   | 56.2   | 60.2   |
| 102.5° | 256.7  | 256.2  | 255.8  | 255.3  | 254.8  | 254.6  | 233.2  | 190.5  | 147.8  | 105.0  | 62.3   |
| 105°   | 321.1  | 328.1  | 335.2  | 342.2  | 349.3  | 352.8  | 320.8  | 256.7  | 192.6  | 128.5  | 64.4   |
| 107.5° | 396.1  | 402.0  | 407.8  | 413.7  | 419.6  | 422.5  | 382.9  | 303.8  | 224.7  | 145.6  | 66.5   |
| 110°   | 467.9  | 472.8  | 477.8  | 482.7  | 487.6  | 490.1  | 456.2  | 388.3  | 320.5  | 252.6  | 184.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 535.5  | 539.7  | 543.9  | 548.2  | 552.4  | 554.5  | 552.5  | 548.5  | 544.6  | 540.6  | 536.6  |
| 115°   | 607.3  | 611.3  | 615.3  | 619.3  | 623.3  | 625.3  | 628.2  | 634.1  | 640.0  | 645.8  | 651.7  |
| 117.5° | 669.7  | 674.4  | 679.1  | 683.8  | 688.5  | 690.8  | 692.8  | 696.8  | 700.7  | 704.7  | 708.7  |
| 120°   | 739.4  | 742.9  | 746.4  | 749.9  | 753.4  | 755.2  | 757.3  | 761.5  | 765.8  | 770.0  | 774.2  |
| 122.5° | 798.5  | 802.3  | 806.0  | 809.8  | 813.5  | 815.4  | 817.7  | 822.4  | 827.1  | 831.8  | 836.5  |
| 125°   | 858.7  | 861.8  | 864.8  | 867.9  | 871.0  | 872.5  | 874.7  | 879.2  | 883.6  | 888.1  | 892.5  |
| 127.5° | 913.7  | 917.0  | 920.2  | 923.5  | 926.8  | 928.4  | 930.2  | 933.7  | 937.2  | 940.8  | 944.3  |
| 130°   | 965.4  | 969.2  | 972.9  | 976.7  | 980.4  | 982.3  | 983.6  | 986.2  | 988.7  | 991.3  | 993.9  |
| 132.5° | 1018.2 | 1021.3 | 1024.3 | 1027.4 | 1030.5 | 1032.0 | 1033.3 | 1035.9 | 1038.4 | 1041.0 | 1043.6 |
| 135°   | 1062.6 | 1066.4 | 1070.1 | 1073.9 | 1077.6 | 1079.5 | 1080.6 | 1082.7 | 1084.8 | 1086.9 | 1089.0 |
| 137.5° | 1109.1 | 1111.9 | 1114.7 | 1117.5 | 1120.3 | 1121.7 | 1122.9 | 1125.2 | 1127.6 | 1129.9 | 1132.3 |
| 140°   | 1154.5 | 1156.4 | 1158.2 | 1160.1 | 1162.0 | 1162.9 | 1164.2 | 1166.8 | 1169.3 | 1171.9 | 1174.5 |
| 142.5° | 1192.5 | 1194.1 | 1195.8 | 1197.4 | 1199.1 | 1199.9 | 1201.4 | 1204.5 | 1207.5 | 1210.6 | 1213.6 |
| 145°   | 1232.6 | 1232.4 | 1232.2 | 1231.9 | 1231.7 | 1231.6 | 1233.6 | 1237.6 | 1241.5 | 1245.5 | 1249.5 |
| 147.5° | 1267.5 | 1266.8 | 1266.1 | 1265.4 | 1264.7 | 1264.3 | 1266.3 | 1270.3 | 1274.3 | 1278.3 | 1282.3 |
| 150°   | 1301.3 | 1299.7 | 1298.0 | 1296.4 | 1294.7 | 1293.9 | 1295.8 | 1299.5 | 1303.3 | 1307.0 | 1310.8 |
| 152.5° | 1329.8 | 1327.9 | 1326.1 | 1324.2 | 1322.3 | 1321.4 | 1323.2 | 1326.7 | 1330.2 | 1333.7 | 1337.2 |
| 155°   | 1357.3 | 1355.2 | 1353.1 | 1351.0 | 1348.9 | 1347.8 | 1349.2 | 1352.0 | 1354.8 | 1357.6 | 1360.4 |
| 157.5° | 1379.5 | 1377.6 | 1375.7 | 1373.8 | 1371.9 | 1371.0 | 1372.1 | 1374.2 | 1376.3 | 1378.4 | 1380.5 |
| 160°   | 1398.5 | 1397.1 | 1395.7 | 1394.2 | 1392.8 | 1392.1 | 1392.8 | 1394.2 | 1395.7 | 1397.1 | 1398.5 |
| 162.5° | 1415.4 | 1414.0 | 1412.6 | 1411.1 | 1409.7 | 1409.0 | 1409.6 | 1410.8 | 1411.9 | 1413.1 | 1414.3 |
| 165°   | 1430.2 | 1428.8 | 1427.4 | 1425.9 | 1424.5 | 1423.8 | 1424.2 | 1424.9 | 1425.6 | 1426.3 | 1427.0 |
| 167.5° | 1441.8 | 1440.4 | 1439.0 | 1437.5 | 1436.1 | 1435.4 | 1435.8 | 1436.5 | 1437.2 | 1437.9 | 1438.6 |
| 170°   | 1451.3 | 1449.9 | 1448.5 | 1447.0 | 1445.6 | 1444.9 | 1445.1 | 1445.6 | 1446.1 | 1446.6 | 1447.1 |
| 172.5° | 1457.6 | 1456.2 | 1454.8 | 1453.4 | 1452.0 | 1451.3 | 1451.5 | 1452.0 | 1452.5 | 1452.9 | 1453.4 |
| 175°   | 1462.9 | 1461.3 | 1459.6 | 1458.0 | 1456.3 | 1455.5 | 1455.7 | 1456.2 | 1456.7 | 1457.1 | 1457.6 |
| 177.5° | 1465.0 | 1463.4 | 1461.7 | 1460.1 | 1458.4 | 1457.6 | 1457.7 | 1458.0 | 1458.2 | 1458.5 | 1458.7 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2064.9 | 2066.5 | 2069.5 | 2084.8 | 2092.4 | 2093.9 | 2087.8 | 2101.6 | 2106.2 | 2101.6 | 2098.5 |
| 5°     | 2162.7 | 2171.8 | 2190.2 | 2210.0 | 2208.5 | 2210.0 | 2219.2 | 2228.3 | 2231.4 | 2219.2 | 2223.8 |
| 7.5°   | 2248.2 | 2266.5 | 2286.4 | 2316.9 | 2316.9 | 2332.2 | 2338.3 | 2346.0 | 2364.3 | 2355.1 | 2352.1 |
| 10°    | 2346.0 | 2370.4 | 2407.0 | 2455.9 | 2457.4 | 2472.7 | 2488.0 | 2512.4 | 2520.1 | 2514.0 | 2517.0 |
| 12.5°  | 2468.1 | 2515.5 | 2518.5 | 2572.0 | 2596.4 | 2599.5 | 2623.9 | 2619.3 | 2634.6 | 2634.6 | 2660.6 |
| 15°    | 2521.6 | 2594.9 | 2636.1 | 2688.1 | 2703.3 | 2685.0 | 2704.9 | 2726.3 | 2727.8 | 2727.8 | 2726.3 |
| 17.5°  | 2617.8 | 2646.8 | 2688.1 | 2715.6 | 2721.7 | 2721.7 | 2723.2 | 2732.4 | 2726.3 | 2714.0 | 2723.2 |
| 20°    | 2637.7 | 2649.9 | 2665.2 | 2662.1 | 2665.2 | 2649.9 | 2634.6 | 2619.3 | 2620.9 | 2613.2 | 2636.1 |
| 22.5°  | 2601.0 | 2598.0 | 2562.8 | 2539.9 | 2539.9 | 2509.4 | 2480.4 | 2466.6 | 2452.9 | 2457.4 | 2465.1 |
| 25°    | 2509.4 | 2462.0 | 2419.3 | 2385.7 | 2378.0 | 2329.2 | 2289.4 | 2277.2 | 2254.3 | 2272.6 | 2275.7 |
| 27.5°  | 2362.8 | 2309.3 | 2240.6 | 2211.5 | 2171.8 | 2152.0 | 2124.5 | 2087.8 | 2040.5 | 2068.0 | 2063.4 |
| 30°    | 2205.4 | 2126.0 | 2069.5 | 1999.3 | 1936.6 | 1932.0 | 1880.1 | 1819.0 | 1794.6 | 1794.6 | 1808.3 |
| 32.5°  | 2029.8 | 1924.4 | 1841.9 | 1742.7 | 1681.6 | 1655.6 | 1593.0 | 1531.9 | 1545.6 | 1499.8 | 1516.6 |
| 35°    | 1825.1 | 1686.2 | 1582.3 | 1486.1 | 1440.3 | 1409.7 | 1328.8 | 1295.2 | 1258.5 | 1237.1 | 1276.8 |
| 37.5°  | 1629.6 | 1469.3 | 1336.4 | 1231.0 | 1214.2 | 1159.2 | 1104.2 | 1082.9 | 1061.5 | 1070.6 | 1069.1 |
| 40°    | 1391.4 | 1249.3 | 1130.2 | 1047.7 | 1018.7 | 992.8  | 956.1  | 930.1  | 916.4  | 924.0  | 925.6  |
| 42.5°  | 1176.0 | 1056.9 | 968.3  | 910.3  | 885.8  | 867.5  | 849.2  | 827.8  | 823.2  | 823.2  | 829.3  |
| 45°    | 1009.6 | 911.8  | 852.2  | 804.9  | 791.1  | 777.4  | 763.7  | 754.5  | 751.4  | 745.3  | 749.9  |
| 47.5°  | 876.7  | 798.8  | 762.1  | 727.0  | 711.7  | 708.7  | 696.5  | 691.9  | 685.8  | 684.2  | 685.8  |
| 50°    | 765.2  | 716.3  | 682.7  | 662.9  | 652.2  | 647.6  | 641.5  | 632.3  | 629.3  | 636.9  | 633.8  |
| 52.5°  | 687.3  | 641.5  | 623.1  | 603.3  | 597.2  | 591.1  | 581.9  | 583.4  | 581.9  | 578.9  | 578.9  |
| 55°    | 609.4  | 580.4  | 562.1  | 546.8  | 545.3  | 539.1  | 531.5  | 528.4  | 526.9  | 523.9  | 528.4  |
| 57.5°  | 546.8  | 523.9  | 507.1  | 493.3  | 487.2  | 487.2  | 479.6  | 473.5  | 473.5  | 471.9  | 473.5  |
| 60°    | 484.2  | 461.2  | 450.6  | 436.8  | 432.2  | 430.7  | 426.1  | 423.1  | 418.5  | 418.5  | 418.5  |
| 62.5°  | 426.1  | 407.8  | 395.6  | 383.4  | 384.9  | 377.2  | 371.1  | 368.1  | 368.1  | 369.6  | 369.6  |
| 65°    | 371.1  | 358.9  | 343.6  | 333.0  | 329.9  | 328.4  | 325.3  | 323.8  | 319.2  | 322.3  | 322.3  |
| 67.5°  | 320.7  | 303.9  | 294.8  | 290.2  | 285.6  | 284.1  | 281.0  | 278.0  | 276.4  | 274.9  | 278.0  |
| 70°    | 270.3  | 256.6  | 249.0  | 245.9  | 241.3  | 239.8  | 238.3  | 233.7  | 235.2  | 236.7  | 238.3  |
| 72.5°  | 224.5  | 212.3  | 210.8  | 201.6  | 201.6  | 201.6  | 195.5  | 198.6  | 197.0  | 194.0  | 197.0  |
| 75°    | 177.2  | 171.1  | 168.0  | 163.4  | 164.9  | 163.4  | 161.9  | 157.3  | 157.3  | 158.8  | 160.4  |
| 77.5°  | 140.5  | 134.4  | 132.9  | 128.3  | 125.2  | 128.3  | 125.2  | 123.7  | 123.7  | 125.2  | 125.2  |
| 80°    | 103.9  | 100.8  | 96.2   | 96.2   | 96.2   | 94.7   | 94.7   | 94.7   | 93.2   | 91.6   | 93.2   |
| 82.5°  | 68.7   | 68.7   | 67.2   | 65.7   | 67.2   | 64.1   | 65.7   | 65.7   | 65.7   | 65.7   | 65.7   |
| 85°    | 44.3   | 42.8   | 42.8   | 41.2   | 41.2   | 41.2   | 42.8   | 39.7   | 39.7   | 41.2   | 41.2   |
| 87.5°  | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 19.9   | 19.9   |
| 90°    | 22.3   | 23.5   | 24.6   | 25.8   | 26.4   | 26.6   | 27.1   | 27.6   | 28.0   | 28.5   | 28.0   |
| 92.5°  | 25.8   | 26.3   | 26.8   | 27.3   | 27.5   | 27.6   | 27.8   | 28.1   | 28.3   | 28.5   | 28.3   |
| 95°    | 42.4   | 43.6   | 44.7   | 45.9   | 46.5   | 46.4   | 46.1   | 45.9   | 45.6   | 45.4   | 45.6   |
| 97.5°  | 54.6   | 55.3   | 56.0   | 56.7   | 57.0   | 57.1   | 57.4   | 57.6   | 57.9   | 58.1   | 57.9   |
| 100°   | 62.1   | 64.0   | 65.9   | 67.8   | 68.7   | 68.9   | 69.4   | 69.9   | 70.3   | 70.8   | 70.3   |
| 102.5° | 64.9   | 67.5   | 70.0   | 72.6   | 73.9   | 74.3   | 75.0   | 75.7   | 76.4   | 77.1   | 76.4   |
| 105°   | 67.0   | 69.6   | 72.1   | 74.7   | 76.0   | 76.5   | 77.4   | 78.4   | 79.3   | 80.3   | 79.3   |
| 107.5° | 69.1   | 71.7   | 74.3   | 76.9   | 78.2   | 78.7   | 79.6   | 80.5   | 81.5   | 82.4   | 81.5   |
| 110°   | 161.3  | 137.9  | 114.4  | 90.9   | 79.2   | 79.7   | 80.6   | 81.5   | 82.5   | 83.4   | 82.5   |

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 435.4  | 334.2  | 233.1  | 131.9  | 81.3   | 81.7   | 82.4   | 83.1   | 83.8   | 84.5   | 83.8   |
| 115°   | 543.0  | 434.4  | 325.7  | 217.0  | 162.7  | 154.2  | 137.3  | 120.4  | 103.5  | 86.6   | 103.5  |
| 117.5° | 675.1  | 641.6  | 608.0  | 574.5  | 557.7  | 527.0  | 465.5  | 404.0  | 342.5  | 281.0  | 342.5  |
| 120°   | 777.0  | 779.8  | 782.7  | 785.5  | 786.9  | 771.1  | 739.4  | 707.7  | 676.0  | 644.3  | 676.0  |
| 122.5° | 837.9  | 839.3  | 840.8  | 842.2  | 842.9  | 843.0  | 843.2  | 843.5  | 843.7  | 843.9  | 843.7  |
| 125°   | 894.1  | 895.8  | 897.4  | 899.1  | 899.9  | 900.3  | 901.0  | 901.7  | 902.4  | 903.1  | 902.4  |
| 127.5° | 946.6  | 949.0  | 951.3  | 953.6  | 954.8  | 954.9  | 955.2  | 955.4  | 955.7  | 955.9  | 955.7  |
| 130°   | 996.5  | 999.1  | 1001.6 | 1004.2 | 1005.5 | 1005.4 | 1005.2 | 1004.9 | 1004.7 | 1004.5 | 1004.7 |
| 132.5° | 1045.7 | 1047.8 | 1049.9 | 1052.0 | 1053.1 | 1053.0 | 1052.7 | 1052.5 | 1052.2 | 1052.0 | 1052.2 |
| 135°   | 1091.4 | 1093.7 | 1096.1 | 1098.4 | 1099.6 | 1099.4 | 1098.9 | 1098.4 | 1097.9 | 1097.4 | 1097.9 |
| 137.5° | 1134.7 | 1137.0 | 1139.4 | 1141.7 | 1142.9 | 1142.5 | 1141.8 | 1141.1 | 1140.4 | 1139.7 | 1140.4 |
| 140°   | 1176.6 | 1178.8 | 1180.9 | 1183.0 | 1184.1 | 1183.5 | 1182.3 | 1181.2 | 1180.0 | 1178.8 | 1180.0 |
| 142.5° | 1215.5 | 1217.4 | 1219.3 | 1221.2 | 1222.1 | 1221.5 | 1220.3 | 1219.2 | 1218.0 | 1216.8 | 1218.0 |
| 145°   | 1251.1 | 1252.8 | 1254.4 | 1256.1 | 1256.9 | 1256.3 | 1255.2 | 1254.0 | 1252.9 | 1251.7 | 1252.9 |
| 147.5° | 1283.5 | 1284.7 | 1285.8 | 1287.0 | 1287.6 | 1287.1 | 1286.2 | 1285.2 | 1284.3 | 1283.3 | 1284.3 |
| 150°   | 1312.2 | 1313.6 | 1315.0 | 1316.4 | 1317.1 | 1316.5 | 1315.4 | 1314.2 | 1313.1 | 1311.9 | 1313.1 |
| 152.5° | 1338.6 | 1340.0 | 1341.4 | 1342.8 | 1343.5 | 1342.7 | 1341.1 | 1339.4 | 1337.8 | 1336.2 | 1337.8 |
| 155°   | 1361.8 | 1363.2 | 1364.7 | 1366.1 | 1366.8 | 1365.9 | 1364.0 | 1362.1 | 1360.2 | 1358.3 | 1360.2 |
| 157.5° | 1382.1 | 1383.8 | 1385.4 | 1387.1 | 1387.9 | 1387.0 | 1385.1 | 1383.2 | 1381.4 | 1379.5 | 1381.4 |
| 160°   | 1399.9 | 1401.3 | 1402.7 | 1404.1 | 1404.8 | 1404.0 | 1402.3 | 1400.7 | 1399.0 | 1397.4 | 1399.0 |
| 162.5° | 1415.9 | 1417.6 | 1419.2 | 1420.9 | 1421.7 | 1420.6 | 1418.5 | 1416.4 | 1414.3 | 1412.2 | 1414.3 |
| 165°   | 1428.6 | 1430.3 | 1431.9 | 1433.6 | 1434.4 | 1433.6 | 1431.9 | 1430.3 | 1428.6 | 1427.0 | 1428.6 |
| 167.5° | 1440.2 | 1441.9 | 1443.5 | 1445.2 | 1446.0 | 1444.9 | 1442.8 | 1440.7 | 1438.6 | 1436.5 | 1438.6 |
| 170°   | 1448.7 | 1450.4 | 1452.0 | 1453.7 | 1454.5 | 1453.4 | 1451.3 | 1449.2 | 1447.0 | 1444.9 | 1447.0 |
| 172.5° | 1455.0 | 1456.7 | 1458.3 | 1460.0 | 1460.8 | 1459.7 | 1457.6 | 1455.5 | 1453.4 | 1451.3 | 1453.4 |
| 175°   | 1459.2 | 1460.9 | 1462.5 | 1464.2 | 1465.0 | 1463.8 | 1461.5 | 1459.2 | 1456.8 | 1454.5 | 1456.8 |
| 177.5° | 1460.3 | 1462.0 | 1463.6 | 1465.3 | 1466.1 | 1465.0 | 1462.9 | 1460.8 | 1458.7 | 1456.6 | 1458.7 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

TEST NUMBER: P997796

CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2106.2 | 2095.5 | 2086.3 | 2087.8 | 2095.5 | 2089.4 | 2074.1 | 2054.2 | 2046.6 | 2037.4 | 2046.6 |
| 5°     | 2232.9 | 2223.8 | 2205.4 | 2207.0 | 2202.4 | 2196.3 | 2171.8 | 2141.3 | 2141.3 | 2116.9 | 2113.8 |
| 7.5°   | 2358.2 | 2344.4 | 2332.2 | 2329.2 | 2312.4 | 2300.1 | 2278.7 | 2236.0 | 2219.2 | 2190.2 | 2173.4 |
| 10°    | 2498.7 | 2488.0 | 2474.2 | 2457.4 | 2448.3 | 2426.9 | 2391.8 | 2329.2 | 2298.6 | 2258.9 | 2229.9 |
| 12.5°  | 2640.7 | 2639.2 | 2608.6 | 2575.0 | 2573.5 | 2539.9 | 2515.5 | 2431.5 | 2390.2 | 2336.8 | 2268.1 |
| 15°    | 2730.8 | 2723.2 | 2706.4 | 2689.6 | 2694.2 | 2657.5 | 2602.5 | 2503.3 | 2475.8 | 2411.6 | 2338.3 |
| 17.5°  | 2729.3 | 2729.3 | 2724.7 | 2721.7 | 2717.1 | 2706.4 | 2675.9 | 2610.2 | 2565.9 | 2484.9 | 2416.2 |
| 20°    | 2642.2 | 2662.1 | 2666.7 | 2665.2 | 2680.4 | 2688.1 | 2686.5 | 2645.3 | 2610.2 | 2538.4 | 2468.1 |
| 22.5°  | 2468.1 | 2514.0 | 2533.8 | 2546.0 | 2578.1 | 2594.9 | 2634.6 | 2619.3 | 2610.2 | 2556.7 | 2497.2 |
| 25°    | 2306.2 | 2321.5 | 2381.1 | 2384.1 | 2428.4 | 2469.7 | 2509.4 | 2535.3 | 2568.9 | 2549.1 | 2498.7 |
| 27.5°  | 2097.0 | 2132.1 | 2174.9 | 2207.0 | 2216.1 | 2300.1 | 2365.8 | 2414.7 | 2491.0 | 2497.2 | 2480.4 |
| 30°    | 1860.3 | 1877.1 | 1947.3 | 1990.1 | 2039.0 | 2100.1 | 2194.7 | 2278.7 | 2347.5 | 2410.1 | 2431.5 |
| 32.5°  | 1571.6 | 1640.3 | 1681.6 | 1733.5 | 1776.3 | 1884.7 | 2000.8 | 2109.2 | 2188.6 | 2294.0 | 2339.8 |
| 35°    | 1307.4 | 1360.8 | 1431.1 | 1452.5 | 1530.4 | 1622.0 | 1773.2 | 1912.2 | 2032.9 | 2139.8 | 2232.9 |
| 37.5°  | 1089.0 | 1131.7 | 1206.6 | 1240.2 | 1286.0 | 1403.6 | 1530.4 | 1703.0 | 1848.0 | 1979.4 | 2095.5 |
| 40°    | 939.3  | 971.4  | 1027.9 | 1038.6 | 1076.8 | 1183.7 | 1286.0 | 1447.9 | 1640.3 | 1817.5 | 1944.3 |
| 42.5°  | 837.0  | 852.2  | 890.4  | 904.2  | 928.6  | 1000.4 | 1092.0 | 1244.8 | 1423.5 | 1606.7 | 1785.4 |
| 45°    | 763.7  | 774.3  | 797.3  | 809.5  | 840.0  | 872.1  | 946.9  | 1069.1 | 1209.6 | 1394.4 | 1586.9 |
| 47.5°  | 698.0  | 711.7  | 720.9  | 728.5  | 745.3  | 780.5  | 829.3  | 919.4  | 1053.8 | 1223.4 | 1409.7 |
| 50°    | 643.0  | 647.6  | 664.4  | 665.9  | 676.6  | 699.5  | 745.3  | 800.3  | 907.2  | 1044.7 | 1224.9 |
| 52.5°  | 588.0  | 592.6  | 603.3  | 614.0  | 618.6  | 636.9  | 667.4  | 713.3  | 792.7  | 901.1  | 1061.5 |
| 55°    | 533.0  | 539.1  | 549.8  | 557.5  | 562.1  | 577.3  | 595.7  | 639.9  | 702.6  | 778.9  | 910.3  |
| 57.5°  | 478.0  | 491.8  | 494.8  | 499.4  | 507.1  | 523.9  | 540.7  | 566.6  | 615.5  | 685.8  | 782.0  |
| 60°    | 426.1  | 430.7  | 441.4  | 446.0  | 453.6  | 462.8  | 484.2  | 504.0  | 539.1  | 594.1  | 681.2  |
| 62.5°  | 372.7  | 383.4  | 387.9  | 392.5  | 398.6  | 409.3  | 423.1  | 444.4  | 475.0  | 519.3  | 588.0  |
| 65°    | 326.8  | 328.4  | 337.5  | 343.6  | 349.8  | 357.4  | 371.1  | 391.0  | 409.3  | 450.6  | 501.0  |
| 67.5°  | 282.6  | 285.6  | 288.7  | 294.8  | 302.4  | 310.0  | 322.3  | 333.0  | 355.9  | 383.4  | 423.1  |
| 70°    | 239.8  | 239.8  | 247.4  | 252.0  | 250.5  | 259.6  | 268.8  | 281.0  | 297.8  | 323.8  | 355.9  |
| 72.5°  | 201.6  | 200.1  | 206.2  | 207.7  | 210.8  | 216.9  | 223.0  | 235.2  | 244.4  | 264.2  | 288.7  |
| 75°    | 160.4  | 163.4  | 166.5  | 166.5  | 171.1  | 175.6  | 181.8  | 187.9  | 198.6  | 210.8  | 229.1  |
| 77.5°  | 126.8  | 126.8  | 129.8  | 131.3  | 135.9  | 134.4  | 140.5  | 146.6  | 154.3  | 164.9  | 178.7  |
| 80°    | 93.2   | 96.2   | 96.2   | 96.2   | 97.7   | 99.3   | 105.4  | 110.0  | 114.5  | 122.2  | 128.3  |
| 82.5°  | 65.7   | 65.7   | 68.7   | 68.7   | 68.7   | 71.8   | 71.8   | 73.3   | 76.4   | 80.9   | 85.5   |
| 85°    | 41.2   | 41.2   | 41.2   | 42.8   | 41.2   | 42.8   | 45.8   | 44.3   | 45.8   | 48.9   | 48.9   |
| 87.5°  | 19.9   | 19.9   | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 21.4   | 22.9   | 22.9   | 22.9   |
| 90°    | 27.6   | 27.1   | 26.6   | 26.4   | 25.8   | 24.6   | 23.5   | 22.3   | 21.1   | 19.2   | 17.4   |
| 92.5°  | 28.1   | 27.8   | 27.6   | 27.5   | 27.3   | 26.8   | 26.3   | 25.8   | 25.3   | 24.6   | 23.9   |
| 95°    | 45.9   | 46.1   | 46.4   | 46.5   | 45.9   | 44.7   | 43.6   | 42.4   | 41.2   | 39.6   | 37.9   |
| 97.5°  | 57.6   | 57.4   | 57.1   | 57.0   | 56.7   | 56.0   | 55.3   | 54.6   | 53.9   | 50.1   | 46.4   |
| 100°   | 69.9   | 69.4   | 68.9   | 68.7   | 67.8   | 65.9   | 64.0   | 62.1   | 60.2   | 56.2   | 52.2   |
| 102.5° | 75.7   | 75.0   | 74.3   | 73.9   | 72.6   | 70.0   | 67.5   | 64.9   | 62.3   | 105.0  | 147.8  |
| 105°   | 78.4   | 77.4   | 76.5   | 76.0   | 74.7   | 72.1   | 69.6   | 67.0   | 64.4   | 128.5  | 192.6  |
| 107.5° | 80.5   | 79.6   | 78.7   | 78.2   | 76.9   | 74.3   | 71.7   | 69.1   | 66.5   | 145.6  | 224.7  |
| 110°   | 81.5   | 80.6   | 79.7   | 79.2   | 90.9   | 114.4  | 137.9  | 161.3  | 184.8  | 252.6  | 320.5  |

TEST NUMBER: P997796

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 83.1   | 82.4   | 81.7   | 81.3   | 131.9  | 233.1  | 334.2  | 435.4  | 536.6  | 540.6  | 544.6  |
| 115°   | 120.4  | 137.3  | 154.2  | 162.7  | 217.0  | 325.7  | 434.4  | 543.0  | 651.7  | 645.8  | 640.0  |
| 117.5° | 404.0  | 465.5  | 527.0  | 557.7  | 574.5  | 608.0  | 641.6  | 675.1  | 708.7  | 704.7  | 700.7  |
| 120°   | 707.7  | 739.4  | 771.1  | 786.9  | 785.5  | 782.7  | 779.8  | 777.0  | 774.2  | 770.0  | 765.8  |
| 122.5° | 843.5  | 843.2  | 843.0  | 842.9  | 842.2  | 840.8  | 839.3  | 837.9  | 836.5  | 831.8  | 827.1  |
| 125°   | 901.7  | 901.0  | 900.3  | 899.9  | 899.1  | 897.4  | 895.8  | 894.1  | 892.5  | 888.1  | 883.6  |
| 127.5° | 955.4  | 955.2  | 954.9  | 954.8  | 953.6  | 951.3  | 949.0  | 946.6  | 944.3  | 940.8  | 937.2  |
| 130°   | 1004.9 | 1005.2 | 1005.4 | 1005.5 | 1004.2 | 1001.6 | 999.1  | 996.5  | 993.9  | 991.3  | 988.7  |
| 132.5° | 1052.5 | 1052.7 | 1053.0 | 1053.1 | 1052.0 | 1049.9 | 1047.8 | 1045.7 | 1043.6 | 1041.0 | 1038.4 |
| 135°   | 1098.4 | 1098.9 | 1099.4 | 1099.6 | 1098.4 | 1096.1 | 1093.7 | 1091.4 | 1089.0 | 1086.9 | 1084.8 |
| 137.5° | 1141.1 | 1141.8 | 1142.5 | 1142.9 | 1141.7 | 1139.4 | 1137.0 | 1134.7 | 1132.3 | 1129.9 | 1127.6 |
| 140°   | 1181.2 | 1182.3 | 1183.5 | 1184.1 | 1183.0 | 1180.9 | 1178.8 | 1176.6 | 1174.5 | 1171.9 | 1169.3 |
| 142.5° | 1219.2 | 1220.3 | 1221.5 | 1222.1 | 1221.2 | 1219.3 | 1217.4 | 1215.5 | 1213.6 | 1210.6 | 1207.5 |
| 145°   | 1254.0 | 1255.2 | 1256.3 | 1256.9 | 1256.1 | 1254.4 | 1252.8 | 1251.1 | 1249.5 | 1245.5 | 1241.5 |
| 147.5° | 1285.2 | 1286.2 | 1287.1 | 1287.6 | 1287.0 | 1285.8 | 1284.7 | 1283.5 | 1282.3 | 1278.3 | 1274.3 |
| 150°   | 1314.2 | 1315.4 | 1316.5 | 1317.1 | 1316.4 | 1315.0 | 1313.6 | 1312.2 | 1310.8 | 1307.0 | 1303.3 |
| 152.5° | 1339.4 | 1341.1 | 1342.7 | 1343.5 | 1342.8 | 1341.4 | 1340.0 | 1338.6 | 1337.2 | 1333.7 | 1330.2 |
| 155°   | 1362.1 | 1364.0 | 1365.9 | 1366.8 | 1366.1 | 1364.7 | 1363.2 | 1361.8 | 1360.4 | 1357.6 | 1354.8 |
| 157.5° | 1383.2 | 1385.1 | 1387.0 | 1387.9 | 1387.1 | 1385.4 | 1383.8 | 1382.1 | 1380.5 | 1378.4 | 1376.3 |
| 160°   | 1400.7 | 1402.3 | 1404.0 | 1404.8 | 1404.1 | 1402.7 | 1401.3 | 1399.9 | 1398.5 | 1397.1 | 1395.7 |
| 162.5° | 1416.4 | 1418.5 | 1420.6 | 1421.7 | 1420.9 | 1419.2 | 1417.6 | 1415.9 | 1414.3 | 1413.1 | 1411.9 |
| 165°   | 1430.3 | 1431.9 | 1433.6 | 1434.4 | 1433.6 | 1431.9 | 1430.3 | 1428.6 | 1427.0 | 1426.3 | 1425.6 |
| 167.5° | 1440.7 | 1442.8 | 1444.9 | 1446.0 | 1445.2 | 1443.5 | 1441.9 | 1440.2 | 1438.6 | 1437.9 | 1437.2 |
| 170°   | 1449.2 | 1451.3 | 1453.4 | 1454.5 | 1453.7 | 1452.0 | 1450.4 | 1448.7 | 1447.1 | 1446.6 | 1446.1 |
| 172.5° | 1455.5 | 1457.6 | 1459.7 | 1460.8 | 1460.0 | 1458.3 | 1456.7 | 1455.0 | 1453.4 | 1452.9 | 1452.5 |
| 175°   | 1459.2 | 1461.5 | 1463.8 | 1465.0 | 1464.2 | 1462.5 | 1460.9 | 1459.2 | 1457.6 | 1457.1 | 1456.7 |
| 177.5° | 1460.8 | 1462.9 | 1465.0 | 1466.1 | 1465.3 | 1463.6 | 1462.0 | 1460.3 | 1458.7 | 1458.5 | 1458.2 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2039.0 | 2031.3 | 2026.7 | 2029.8 | 2020.6 | 1997.7 | 1997.7 | 2005.4 | 1996.2 | 1987.0 | 1973.3 |
| 5°     | 2095.5 | 2080.2 | 2071.0 | 2069.5 | 2048.1 | 2011.5 | 2003.8 | 1996.2 | 1976.3 | 1955.0 | 1932.0 |
| 7.5°   | 2150.5 | 2123.0 | 2107.7 | 2097.0 | 2066.5 | 2019.1 | 1999.3 | 1982.5 | 1950.4 | 1918.3 | 1889.3 |
| 10°    | 2196.3 | 2156.6 | 2138.2 | 2121.4 | 2081.7 | 2022.2 | 1990.1 | 1959.5 | 1918.3 | 1877.1 | 1840.4 |
| 12.5°  | 2232.9 | 2187.1 | 2164.2 | 2139.8 | 2090.9 | 2013.0 | 1973.3 | 1924.4 | 1883.2 | 1828.2 | 1791.5 |
| 15°    | 2294.0 | 2199.3 | 2177.9 | 2155.0 | 2104.6 | 1997.7 | 1948.9 | 1893.9 | 1837.4 | 1764.0 | 1724.3 |
| 17.5°  | 2342.9 | 2216.1 | 2214.6 | 2165.7 | 2100.1 | 1991.6 | 1916.8 | 1845.0 | 1783.9 | 1710.6 | 1648.0 |
| 20°    | 2371.9 | 2242.1 | 2217.7 | 2167.3 | 2084.8 | 1950.4 | 1872.5 | 1793.1 | 1727.4 | 1638.8 | 1576.2 |
| 22.5°  | 2396.4 | 2278.7 | 2214.6 | 2153.5 | 2052.7 | 1936.6 | 1822.1 | 1747.2 | 1657.1 | 1560.9 | 1501.3 |
| 25°    | 2405.5 | 2286.4 | 2219.2 | 2148.9 | 2029.8 | 1896.9 | 1767.1 | 1686.2 | 1585.3 | 1498.3 | 1417.3 |
| 27.5°  | 2407.0 | 2284.9 | 2202.4 | 2129.1 | 1997.7 | 1845.0 | 1712.1 | 1626.6 | 1515.1 | 1414.3 | 1333.3 |
| 30°    | 2391.8 | 2268.1 | 2193.2 | 2113.8 | 1967.2 | 1797.6 | 1644.9 | 1550.2 | 1431.1 | 1330.3 | 1246.3 |
| 32.5°  | 2346.0 | 2234.5 | 2173.4 | 2086.3 | 1927.5 | 1732.0 | 1580.8 | 1475.4 | 1350.1 | 1250.9 | 1169.9 |
| 35°    | 2269.6 | 2193.2 | 2126.0 | 2045.1 | 1875.5 | 1670.9 | 1516.6 | 1392.9 | 1266.1 | 1171.4 | 1095.1 |
| 37.5°  | 2174.9 | 2133.7 | 2071.0 | 1991.6 | 1816.0 | 1615.9 | 1444.8 | 1307.4 | 1180.6 | 1089.0 | 1014.1 |
| 40°    | 2046.6 | 2057.3 | 1996.2 | 1924.4 | 1745.7 | 1541.1 | 1351.7 | 1220.3 | 1101.2 | 1015.7 | 942.4  |
| 42.5°  | 1907.6 | 1951.9 | 1916.8 | 1848.0 | 1667.8 | 1458.6 | 1282.9 | 1137.8 | 1021.8 | 933.2  | 872.1  |
| 45°    | 1757.9 | 1834.3 | 1812.9 | 1762.5 | 1586.9 | 1371.5 | 1185.2 | 1044.7 | 942.4  | 856.8  | 803.4  |
| 47.5°  | 1594.5 | 1703.0 | 1703.0 | 1666.3 | 1496.8 | 1284.5 | 1101.2 | 957.6  | 856.8  | 795.7  | 743.8  |
| 50°    | 1428.0 | 1550.2 | 1570.1 | 1545.6 | 1396.0 | 1185.2 | 998.9  | 869.0  | 782.0  | 722.4  | 684.2  |
| 52.5°  | 1253.9 | 1396.0 | 1432.6 | 1420.4 | 1289.1 | 1090.5 | 914.9  | 788.1  | 708.7  | 656.7  | 623.1  |
| 55°    | 1087.4 | 1252.4 | 1292.1 | 1296.7 | 1174.5 | 986.6  | 821.7  | 710.2  | 633.8  | 598.7  | 569.7  |
| 57.5°  | 930.1  | 1089.0 | 1133.3 | 1140.9 | 1058.4 | 892.0  | 734.6  | 636.9  | 568.2  | 539.1  | 516.2  |
| 60°    | 795.7  | 928.6  | 986.6  | 1003.4 | 931.7  | 782.0  | 653.7  | 559.0  | 507.1  | 479.6  | 458.2  |
| 62.5°  | 685.8  | 792.7  | 853.8  | 858.3  | 826.3  | 685.8  | 569.7  | 490.3  | 446.0  | 421.5  | 410.8  |
| 65°    | 578.9  | 675.1  | 711.7  | 730.1  | 704.1  | 594.1  | 491.8  | 426.1  | 391.0  | 369.6  | 358.9  |
| 67.5°  | 493.3  | 554.4  | 585.0  | 609.4  | 583.4  | 501.0  | 418.5  | 365.0  | 339.1  | 317.7  | 311.6  |
| 70°    | 404.7  | 455.1  | 478.0  | 502.5  | 479.6  | 417.0  | 357.4  | 308.5  | 285.6  | 268.8  | 261.2  |
| 72.5°  | 323.8  | 363.5  | 384.9  | 400.2  | 386.4  | 334.5  | 285.6  | 252.0  | 235.2  | 223.0  | 218.4  |
| 75°    | 256.6  | 284.1  | 296.3  | 307.0  | 300.9  | 261.2  | 230.6  | 203.1  | 187.9  | 177.2  | 174.1  |
| 77.5°  | 195.5  | 215.4  | 229.1  | 232.2  | 224.5  | 198.6  | 172.6  | 155.8  | 143.6  | 137.5  | 134.4  |
| 80°    | 139.0  | 151.2  | 158.8  | 163.4  | 155.8  | 145.1  | 126.8  | 114.5  | 103.9  | 96.2   | 94.7   |
| 82.5°  | 93.2   | 99.3   | 105.4  | 103.9  | 100.8  | 91.6   | 80.9   | 74.8   | 70.3   | 64.1   | 64.1   |
| 85°    | 53.5   | 55.0   | 58.0   | 59.6   | 58.0   | 51.9   | 45.8   | 42.8   | 39.7   | 35.1   | 35.1   |
| 87.5°  | 22.9   | 24.4   | 24.4   | 26.0   | 22.9   | 22.9   | 19.9   | 16.8   | 16.8   | 15.3   | 13.7   |
| 90°    | 15.5   | 13.6   | 12.7   | 11.4   | 8.8    | 6.3    | 3.7    | 1.1    | 3.7    | 6.3    | 8.8    |
| 92.5°  | 23.2   | 22.5   | 22.2   | 22.7   | 23.6   | 24.5   | 25.5   | 26.4   | 25.5   | 24.5   | 23.6   |
| 95°    | 36.3   | 34.6   | 33.8   | 37.7   | 45.4   | 53.2   | 60.9   | 68.7   | 60.9   | 53.2   | 45.4   |
| 97.5°  | 42.6   | 38.9   | 37.0   | 46.6   | 65.9   | 85.1   | 104.4  | 123.6  | 104.4  | 85.1   | 65.9   |
| 100°   | 48.2   | 44.2   | 42.2   | 58.3   | 90.5   | 122.6  | 154.8  | 187.0  | 154.8  | 122.6  | 90.5   |
| 102.5° | 190.5  | 233.2  | 254.6  | 254.8  | 255.3  | 255.8  | 256.2  | 256.7  | 256.2  | 255.8  | 255.3  |
| 105°   | 256.7  | 320.8  | 352.8  | 349.3  | 342.2  | 335.2  | 328.1  | 321.1  | 328.1  | 335.2  | 342.2  |
| 107.5° | 303.8  | 382.9  | 422.5  | 419.6  | 413.7  | 407.8  | 402.0  | 396.1  | 402.0  | 407.8  | 413.7  |
| 110°   | 388.3  | 456.2  | 490.1  | 487.6  | 482.7  | 477.8  | 472.8  | 467.9  | 472.8  | 477.8  | 482.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 548.5  | 552.5  | 554.5  | 552.4  | 548.2  | 543.9  | 539.7  | 535.5  | 539.7  | 543.9  | 548.2  |
| 115°   | 634.1  | 628.2  | 625.3  | 623.3  | 619.3  | 615.3  | 611.3  | 607.3  | 611.3  | 615.3  | 619.3  |
| 117.5° | 696.8  | 692.8  | 690.8  | 688.5  | 683.8  | 679.1  | 674.4  | 669.7  | 674.4  | 679.1  | 683.8  |
| 120°   | 761.5  | 757.3  | 755.2  | 753.4  | 749.9  | 746.4  | 742.9  | 739.4  | 742.9  | 746.4  | 749.9  |
| 122.5° | 822.4  | 817.7  | 815.4  | 813.5  | 809.8  | 806.0  | 802.3  | 798.5  | 802.3  | 806.0  | 809.8  |
| 125°   | 879.2  | 874.7  | 872.5  | 871.0  | 867.9  | 864.8  | 861.8  | 858.7  | 861.8  | 864.8  | 867.9  |
| 127.5° | 933.7  | 930.2  | 928.4  | 926.8  | 923.5  | 920.2  | 917.0  | 913.7  | 917.0  | 920.2  | 923.5  |
| 130°   | 986.2  | 983.6  | 982.3  | 980.4  | 976.7  | 972.9  | 969.2  | 965.4  | 969.2  | 972.9  | 976.7  |
| 132.5° | 1035.9 | 1033.3 | 1032.0 | 1030.5 | 1027.4 | 1024.3 | 1021.3 | 1018.2 | 1021.3 | 1024.3 | 1027.4 |
| 135°   | 1082.7 | 1080.6 | 1079.5 | 1077.6 | 1073.9 | 1070.1 | 1066.4 | 1062.6 | 1066.4 | 1070.1 | 1073.9 |
| 137.5° | 1125.2 | 1122.9 | 1121.7 | 1120.3 | 1117.5 | 1114.7 | 1111.9 | 1109.1 | 1111.9 | 1114.7 | 1117.5 |
| 140°   | 1166.8 | 1164.2 | 1162.9 | 1162.0 | 1160.1 | 1158.2 | 1156.4 | 1154.5 | 1156.4 | 1158.2 | 1160.1 |
| 142.5° | 1204.5 | 1201.4 | 1199.9 | 1199.1 | 1197.4 | 1195.8 | 1194.1 | 1192.5 | 1194.1 | 1195.8 | 1197.4 |
| 145°   | 1237.6 | 1233.6 | 1231.6 | 1231.7 | 1231.9 | 1232.2 | 1232.4 | 1232.6 | 1232.4 | 1232.2 | 1231.9 |
| 147.5° | 1270.3 | 1266.3 | 1264.3 | 1264.7 | 1265.4 | 1266.1 | 1266.8 | 1267.5 | 1266.8 | 1266.1 | 1265.4 |
| 150°   | 1299.5 | 1295.8 | 1293.9 | 1294.7 | 1296.4 | 1298.0 | 1299.7 | 1301.3 | 1299.7 | 1298.0 | 1296.4 |
| 152.5° | 1326.7 | 1323.2 | 1321.4 | 1322.3 | 1324.2 | 1326.1 | 1327.9 | 1329.8 | 1327.9 | 1326.1 | 1324.2 |
| 155°   | 1352.0 | 1349.2 | 1347.8 | 1348.9 | 1351.0 | 1353.1 | 1355.2 | 1357.3 | 1355.2 | 1353.1 | 1351.0 |
| 157.5° | 1374.2 | 1372.1 | 1371.0 | 1371.9 | 1373.8 | 1375.7 | 1377.6 | 1379.5 | 1377.6 | 1375.7 | 1373.8 |
| 160°   | 1394.2 | 1392.8 | 1392.1 | 1392.8 | 1394.2 | 1395.7 | 1397.1 | 1398.5 | 1397.1 | 1395.7 | 1394.2 |
| 162.5° | 1410.8 | 1409.6 | 1409.0 | 1409.7 | 1411.1 | 1412.6 | 1414.0 | 1415.4 | 1414.0 | 1412.6 | 1411.1 |
| 165°   | 1424.9 | 1424.2 | 1423.8 | 1424.5 | 1425.9 | 1427.4 | 1428.8 | 1430.2 | 1428.8 | 1427.4 | 1425.9 |
| 167.5° | 1436.5 | 1435.8 | 1435.4 | 1436.1 | 1437.5 | 1439.0 | 1440.4 | 1441.8 | 1440.4 | 1439.0 | 1437.5 |
| 170°   | 1445.6 | 1445.1 | 1444.9 | 1445.6 | 1447.0 | 1448.5 | 1449.9 | 1451.3 | 1449.9 | 1448.5 | 1447.0 |
| 172.5° | 1452.0 | 1451.5 | 1451.3 | 1452.0 | 1453.4 | 1454.8 | 1456.2 | 1457.6 | 1456.2 | 1454.8 | 1453.4 |
| 175°   | 1456.2 | 1455.7 | 1455.5 | 1456.3 | 1458.0 | 1459.6 | 1461.3 | 1462.9 | 1461.3 | 1459.6 | 1458.0 |
| 177.5° | 1458.0 | 1457.7 | 1457.6 | 1458.4 | 1460.1 | 1461.7 | 1463.4 | 1465.0 | 1463.4 | 1461.7 | 1460.1 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1965.7 | 1973.3 | 1971.8 | 1956.5 | 1939.7 | 1925.9 | 1900.0 | 1903.0 | 1893.9 | 1895.4 | 1904.6 |
| 5°     | 1916.8 | 1916.8 | 1910.7 | 1889.3 | 1861.8 | 1846.5 | 1817.5 | 1809.9 | 1791.5 | 1790.0 | 1788.5 |
| 7.5°   | 1864.8 | 1857.2 | 1849.6 | 1819.0 | 1785.4 | 1761.0 | 1721.3 | 1712.1 | 1693.8 | 1681.6 | 1675.5 |
| 10°    | 1803.8 | 1793.1 | 1777.8 | 1742.7 | 1701.4 | 1670.9 | 1629.6 | 1617.4 | 1582.3 | 1567.0 | 1557.9 |
| 12.5°  | 1736.6 | 1730.4 | 1706.0 | 1677.0 | 1609.8 | 1576.2 | 1516.6 | 1528.8 | 1493.7 | 1463.2 | 1458.6 |
| 15°    | 1669.4 | 1646.4 | 1632.7 | 1585.3 | 1504.4 | 1489.1 | 1441.8 | 1417.3 | 1385.3 | 1360.8 | 1360.8 |
| 17.5°  | 1603.7 | 1568.5 | 1538.0 | 1487.6 | 1428.0 | 1385.3 | 1350.1 | 1337.9 | 1298.2 | 1273.8 | 1269.2 |
| 20°    | 1516.6 | 1476.9 | 1469.3 | 1397.5 | 1356.3 | 1308.9 | 1275.3 | 1244.8 | 1215.7 | 1205.0 | 1197.4 |
| 22.5°  | 1434.1 | 1388.3 | 1376.1 | 1315.0 | 1273.8 | 1226.4 | 1192.8 | 1171.4 | 1150.1 | 1142.4 | 1128.7 |
| 25°    | 1345.6 | 1318.1 | 1299.7 | 1234.1 | 1188.2 | 1144.0 | 1121.0 | 1105.8 | 1085.9 | 1084.4 | 1075.2 |
| 27.5°  | 1260.0 | 1234.1 | 1215.7 | 1153.1 | 1119.5 | 1078.3 | 1060.0 | 1043.2 | 1032.5 | 1027.9 | 1023.3 |
| 30°    | 1186.7 | 1157.7 | 1136.3 | 1090.5 | 1049.3 | 1015.7 | 1000.4 | 989.7  | 983.6  | 976.0  | 974.4  |
| 32.5°  | 1105.8 | 1089.0 | 1060.0 | 1024.8 | 992.8  | 960.7  | 951.5  | 943.9  | 934.7  | 931.7  | 930.1  |
| 35°    | 1037.0 | 1014.1 | 995.8  | 956.1  | 942.4  | 914.9  | 904.2  | 898.1  | 885.8  | 882.8  | 879.7  |
| 37.5°  | 969.8  | 948.5  | 928.6  | 904.2  | 878.2  | 862.9  | 856.8  | 847.7  | 841.5  | 843.1  | 840.0  |
| 40°    | 902.6  | 885.8  | 870.6  | 844.6  | 829.3  | 821.7  | 809.5  | 800.3  | 797.3  | 798.8  | 797.3  |
| 42.5°  | 837.0  | 821.7  | 812.5  | 792.7  | 777.4  | 769.8  | 762.1  | 753.0  | 757.5  | 757.5  | 762.1  |
| 45°    | 777.4  | 763.7  | 757.5  | 742.3  | 733.1  | 720.9  | 713.3  | 711.7  | 717.8  | 716.3  | 716.3  |
| 47.5°  | 716.3  | 711.7  | 704.1  | 690.3  | 678.1  | 670.5  | 669.0  | 669.0  | 675.1  | 678.1  | 676.6  |
| 50°    | 669.0  | 659.8  | 650.6  | 639.9  | 630.8  | 627.7  | 623.1  | 626.2  | 632.3  | 632.3  | 635.4  |
| 52.5°  | 609.4  | 603.3  | 600.2  | 591.1  | 585.0  | 585.0  | 585.0  | 586.5  | 591.1  | 595.7  | 594.1  |
| 55°    | 557.5  | 552.9  | 549.8  | 545.3  | 537.6  | 539.1  | 537.6  | 540.7  | 545.3  | 549.8  | 552.9  |
| 57.5°  | 502.5  | 501.0  | 497.9  | 490.3  | 490.3  | 488.7  | 493.3  | 494.8  | 502.5  | 505.5  | 510.1  |
| 60°    | 453.6  | 449.0  | 449.0  | 442.9  | 442.9  | 442.9  | 447.5  | 452.1  | 458.2  | 459.7  | 462.8  |
| 62.5°  | 401.7  | 401.7  | 400.2  | 395.6  | 395.6  | 400.2  | 401.7  | 407.8  | 410.8  | 410.8  | 415.4  |
| 65°    | 352.8  | 351.3  | 349.8  | 351.3  | 352.8  | 352.8  | 357.4  | 360.4  | 363.5  | 365.0  | 366.6  |
| 67.5°  | 303.9  | 302.4  | 305.5  | 303.9  | 307.0  | 313.1  | 311.6  | 316.2  | 320.7  | 320.7  | 322.3  |
| 70°    | 258.1  | 261.2  | 259.6  | 262.7  | 261.2  | 264.2  | 268.8  | 270.3  | 270.3  | 271.9  | 276.4  |
| 72.5°  | 215.4  | 215.4  | 215.4  | 213.8  | 215.4  | 218.4  | 221.5  | 223.0  | 226.0  | 227.6  | 232.2  |
| 75°    | 174.1  | 174.1  | 171.1  | 174.1  | 174.1  | 177.2  | 180.2  | 180.2  | 180.2  | 183.3  | 187.9  |
| 77.5°  | 131.3  | 132.9  | 131.3  | 134.4  | 134.4  | 135.9  | 139.0  | 137.5  | 140.5  | 142.0  | 143.6  |
| 80°    | 96.2   | 94.7   | 94.7   | 94.7   | 96.2   | 96.2   | 99.3   | 100.8  | 100.8  | 105.4  | 102.3  |
| 82.5°  | 61.1   | 62.6   | 61.1   | 62.6   | 62.6   | 64.1   | 62.6   | 64.1   | 65.7   | 68.7   | 67.2   |
| 85°    | 35.1   | 33.6   | 33.6   | 35.1   | 33.6   | 33.6   | 35.1   | 33.6   | 35.1   | 33.6   | 35.1   |
| 87.5°  | 13.7   | 12.2   | 12.2   | 12.2   | 12.2   | 10.7   | 10.7   | 9.2    | 9.2    | 9.2    | 7.6    |
| 90°    | 11.4   | 12.7   | 13.6   | 15.5   | 17.4   | 19.2   | 21.1   | 22.3   | 23.5   | 24.6   | 25.8   |
| 92.5°  | 22.7   | 22.2   | 22.5   | 23.2   | 23.9   | 24.6   | 25.3   | 25.8   | 26.3   | 26.8   | 27.3   |
| 95°    | 37.7   | 33.8   | 34.6   | 36.3   | 37.9   | 39.6   | 41.2   | 42.4   | 43.6   | 44.7   | 45.9   |
| 97.5°  | 46.6   | 37.0   | 38.9   | 42.6   | 46.4   | 50.1   | 53.9   | 54.6   | 55.3   | 56.0   | 56.7   |
| 100°   | 58.3   | 42.2   | 44.2   | 48.2   | 52.2   | 56.2   | 60.2   | 62.1   | 64.0   | 65.9   | 67.8   |
| 102.5° | 254.8  | 254.6  | 233.2  | 190.5  | 147.8  | 105.0  | 62.3   | 64.9   | 67.5   | 70.0   | 72.6   |
| 105°   | 349.3  | 352.8  | 320.8  | 256.7  | 192.6  | 128.5  | 64.4   | 67.0   | 69.6   | 72.1   | 74.7   |
| 107.5° | 419.6  | 422.5  | 382.9  | 303.8  | 224.7  | 145.6  | 66.5   | 69.1   | 71.7   | 74.3   | 76.9   |
| 110°   | 487.6  | 490.1  | 456.2  | 388.3  | 320.5  | 252.6  | 184.8  | 161.3  | 137.9  | 114.4  | 90.9   |

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 552.4  | 554.5  | 552.5  | 548.5  | 544.6  | 540.6  | 536.6  | 435.4  | 334.2  | 233.1  | 131.9  |
| 115°   | 623.3  | 625.3  | 628.2  | 634.1  | 640.0  | 645.8  | 651.7  | 543.0  | 434.4  | 325.7  | 217.0  |
| 117.5° | 688.5  | 690.8  | 692.8  | 696.8  | 700.7  | 704.7  | 708.7  | 675.1  | 641.6  | 608.0  | 574.5  |
| 120°   | 753.4  | 755.2  | 757.3  | 761.5  | 765.8  | 770.0  | 774.2  | 777.0  | 779.8  | 782.7  | 785.5  |
| 122.5° | 813.5  | 815.4  | 817.7  | 822.4  | 827.1  | 831.8  | 836.5  | 837.9  | 839.3  | 840.8  | 842.2  |
| 125°   | 871.0  | 872.5  | 874.7  | 879.2  | 883.6  | 888.1  | 892.5  | 894.1  | 895.8  | 897.4  | 899.1  |
| 127.5° | 926.8  | 928.4  | 930.2  | 933.7  | 937.2  | 940.8  | 944.3  | 946.6  | 949.0  | 951.3  | 953.6  |
| 130°   | 980.4  | 982.3  | 983.6  | 986.2  | 988.7  | 991.3  | 993.9  | 996.5  | 999.1  | 1001.6 | 1004.2 |
| 132.5° | 1030.5 | 1032.0 | 1033.3 | 1035.9 | 1038.4 | 1041.0 | 1043.6 | 1045.7 | 1047.8 | 1049.9 | 1052.0 |
| 135°   | 1077.6 | 1079.5 | 1080.6 | 1082.7 | 1084.8 | 1086.9 | 1089.0 | 1091.4 | 1093.7 | 1096.1 | 1098.4 |
| 137.5° | 1120.3 | 1121.7 | 1122.9 | 1125.2 | 1127.6 | 1129.9 | 1132.3 | 1134.7 | 1137.0 | 1139.4 | 1141.7 |
| 140°   | 1162.0 | 1162.9 | 1164.2 | 1166.8 | 1169.3 | 1171.9 | 1174.5 | 1176.6 | 1178.8 | 1180.9 | 1183.0 |
| 142.5° | 1199.1 | 1199.9 | 1201.4 | 1204.5 | 1207.5 | 1210.6 | 1213.6 | 1215.5 | 1217.4 | 1219.3 | 1221.2 |
| 145°   | 1231.7 | 1231.6 | 1233.6 | 1237.6 | 1241.5 | 1245.5 | 1249.5 | 1251.1 | 1252.8 | 1254.4 | 1256.1 |
| 147.5° | 1264.7 | 1264.3 | 1266.3 | 1270.3 | 1274.3 | 1278.3 | 1282.3 | 1283.5 | 1284.7 | 1285.8 | 1287.0 |
| 150°   | 1294.7 | 1293.9 | 1295.8 | 1299.5 | 1303.3 | 1307.0 | 1310.8 | 1312.2 | 1313.6 | 1315.0 | 1316.4 |
| 152.5° | 1322.3 | 1321.4 | 1323.2 | 1326.7 | 1330.2 | 1333.7 | 1337.2 | 1338.6 | 1340.0 | 1341.4 | 1342.8 |
| 155°   | 1348.9 | 1347.8 | 1349.2 | 1352.0 | 1354.8 | 1357.6 | 1360.4 | 1361.8 | 1363.2 | 1364.7 | 1366.1 |
| 157.5° | 1371.9 | 1371.0 | 1372.1 | 1374.2 | 1376.3 | 1378.4 | 1380.5 | 1382.1 | 1383.8 | 1385.4 | 1387.1 |
| 160°   | 1392.8 | 1392.1 | 1392.8 | 1394.2 | 1395.7 | 1397.1 | 1398.5 | 1399.9 | 1401.3 | 1402.7 | 1404.1 |
| 162.5° | 1409.7 | 1409.0 | 1409.6 | 1410.8 | 1411.9 | 1413.1 | 1414.3 | 1415.9 | 1417.6 | 1419.2 | 1420.9 |
| 165°   | 1424.5 | 1423.8 | 1424.2 | 1424.9 | 1425.6 | 1426.3 | 1427.0 | 1428.6 | 1430.3 | 1431.9 | 1433.6 |
| 167.5° | 1436.1 | 1435.4 | 1435.8 | 1436.5 | 1437.2 | 1437.9 | 1438.6 | 1440.2 | 1441.9 | 1443.5 | 1445.2 |
| 170°   | 1445.6 | 1444.9 | 1445.1 | 1445.6 | 1446.1 | 1446.6 | 1447.1 | 1448.7 | 1450.4 | 1452.0 | 1453.7 |
| 172.5° | 1452.0 | 1451.3 | 1451.5 | 1452.0 | 1452.5 | 1452.9 | 1453.4 | 1455.0 | 1456.7 | 1458.3 | 1460.0 |
| 175°   | 1456.3 | 1455.5 | 1455.7 | 1456.2 | 1456.7 | 1457.1 | 1457.6 | 1459.2 | 1460.9 | 1462.5 | 1464.2 |
| 177.5° | 1458.4 | 1457.6 | 1457.7 | 1458.0 | 1458.2 | 1458.5 | 1458.7 | 1460.3 | 1462.0 | 1463.6 | 1465.3 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1893.9 | 1898.4 | 1887.8 | 1884.7 | 1887.8 | 1877.1 | 1880.1 | 1883.2 | 1883.2 | 1887.8 | 1890.8 |
| 5°     | 1783.9 | 1777.8 | 1767.1 | 1764.0 | 1761.0 | 1765.6 | 1762.5 | 1767.1 | 1768.6 | 1779.3 | 1780.8 |
| 7.5°   | 1675.5 | 1666.3 | 1657.1 | 1648.0 | 1644.9 | 1637.3 | 1644.9 | 1644.9 | 1655.6 | 1652.6 | 1660.2 |
| 10°    | 1547.2 | 1545.6 | 1533.4 | 1528.8 | 1522.7 | 1510.5 | 1527.3 | 1522.7 | 1530.4 | 1544.1 | 1547.2 |
| 12.5°  | 1452.5 | 1435.7 | 1443.3 | 1421.9 | 1429.6 | 1417.3 | 1418.9 | 1418.9 | 1431.1 | 1432.6 | 1429.6 |
| 15°    | 1362.4 | 1348.6 | 1328.8 | 1319.6 | 1315.0 | 1308.9 | 1328.8 | 1330.3 | 1321.1 | 1342.5 | 1334.9 |
| 17.5°  | 1270.7 | 1270.7 | 1252.4 | 1247.8 | 1235.6 | 1241.7 | 1238.7 | 1240.2 | 1237.1 | 1252.4 | 1260.0 |
| 20°    | 1191.3 | 1183.7 | 1177.6 | 1179.1 | 1163.8 | 1160.8 | 1157.7 | 1160.8 | 1171.4 | 1182.1 | 1185.2 |
| 22.5°  | 1127.2 | 1122.6 | 1107.3 | 1110.4 | 1098.1 | 1102.7 | 1099.7 | 1107.3 | 1108.8 | 1108.8 | 1119.5 |
| 25°    | 1066.1 | 1060.0 | 1061.5 | 1055.4 | 1050.8 | 1050.8 | 1046.2 | 1050.8 | 1056.9 | 1060.0 | 1061.5 |
| 27.5°  | 1020.2 | 1015.7 | 1008.0 | 1003.4 | 1006.5 | 998.9  | 1005.0 | 1009.6 | 1009.6 | 1006.5 | 1009.6 |
| 30°    | 965.3  | 968.3  | 968.3  | 953.0  | 959.2  | 956.1  | 960.7  | 963.7  | 963.7  | 965.3  | 962.2  |
| 32.5°  | 928.6  | 919.4  | 917.9  | 916.4  | 916.4  | 910.3  | 910.3  | 914.9  | 916.4  | 917.9  | 922.5  |
| 35°    | 879.7  | 879.7  | 872.1  | 876.7  | 870.6  | 872.1  | 870.6  | 872.1  | 875.1  | 870.6  | 875.1  |
| 37.5°  | 835.4  | 837.0  | 833.9  | 837.0  | 838.5  | 835.4  | 832.4  | 838.5  | 835.4  | 835.4  | 832.4  |
| 40°    | 797.3  | 795.7  | 797.3  | 797.3  | 797.3  | 798.8  | 795.7  | 795.7  | 795.7  | 792.7  | 789.6  |
| 42.5°  | 765.2  | 756.0  | 759.1  | 760.6  | 756.0  | 756.0  | 757.5  | 756.0  | 760.6  | 751.4  | 751.4  |
| 45°    | 719.4  | 716.3  | 717.8  | 717.8  | 720.9  | 716.3  | 719.4  | 720.9  | 716.3  | 714.8  | 711.7  |
| 47.5°  | 678.1  | 681.2  | 678.1  | 681.2  | 681.2  | 684.2  | 678.1  | 679.7  | 681.2  | 675.1  | 670.5  |
| 50°    | 636.9  | 636.9  | 641.5  | 639.9  | 641.5  | 638.4  | 638.4  | 636.9  | 638.4  | 635.4  | 630.8  |
| 52.5°  | 598.7  | 594.1  | 601.8  | 600.2  | 598.7  | 597.2  | 595.7  | 597.2  | 594.1  | 591.1  | 591.1  |
| 55°    | 551.4  | 551.4  | 555.9  | 557.5  | 557.5  | 554.4  | 551.4  | 552.9  | 551.4  | 549.8  | 548.3  |
| 57.5°  | 513.2  | 507.1  | 510.1  | 511.6  | 511.6  | 507.1  | 510.1  | 507.1  | 507.1  | 508.6  | 504.0  |
| 60°    | 464.3  | 464.3  | 461.2  | 465.8  | 465.8  | 462.8  | 462.8  | 464.3  | 461.2  | 459.7  | 458.2  |
| 62.5°  | 412.4  | 413.9  | 418.5  | 420.0  | 421.5  | 418.5  | 415.4  | 417.0  | 417.0  | 412.4  | 413.9  |
| 65°    | 368.1  | 371.1  | 377.2  | 375.7  | 372.7  | 374.2  | 371.1  | 372.7  | 368.1  | 369.6  | 365.0  |
| 67.5°  | 325.3  | 323.8  | 325.3  | 325.3  | 328.4  | 326.8  | 323.8  | 323.8  | 322.3  | 326.8  | 322.3  |
| 70°    | 279.5  | 279.5  | 279.5  | 279.5  | 281.0  | 282.6  | 279.5  | 276.4  | 278.0  | 274.9  | 273.4  |
| 72.5°  | 232.2  | 233.7  | 232.2  | 235.2  | 230.6  | 233.7  | 233.7  | 232.2  | 230.6  | 230.6  | 230.6  |
| 75°    | 187.9  | 190.9  | 186.3  | 187.9  | 186.3  | 189.4  | 187.9  | 187.9  | 184.8  | 183.3  | 184.8  |
| 77.5°  | 143.6  | 145.1  | 142.0  | 143.6  | 142.0  | 143.6  | 143.6  | 142.0  | 142.0  | 142.0  | 142.0  |
| 80°    | 102.3  | 103.9  | 102.3  | 100.8  | 99.3   | 102.3  | 99.3   | 100.8  | 102.3  | 100.8  | 103.9  |
| 82.5°  | 65.7   | 65.7   | 64.1   | 65.7   | 62.6   | 62.6   | 64.1   | 64.1   | 62.6   | 65.7   | 62.6   |
| 85°    | 32.1   | 32.1   | 35.1   | 32.1   | 30.5   | 30.5   | 30.5   | 32.1   | 30.5   | 33.6   | 32.1   |
| 87.5°  | 7.6    | 6.1    | 7.6    | 7.6    | 6.1    | 6.1    | 7.6    | 6.1    | 7.6    | 9.2    | 6.1    |
| 90°    | 26.4   | 26.6   | 27.1   | 27.6   | 28.0   | 28.5   | 28.0   | 27.6   | 27.1   | 26.6   | 26.4   |
| 92.5°  | 27.5   | 27.6   | 27.8   | 28.1   | 28.3   | 28.5   | 28.3   | 28.1   | 27.8   | 27.6   | 27.5   |
| 95°    | 46.5   | 46.4   | 46.1   | 45.9   | 45.6   | 45.4   | 45.6   | 45.9   | 46.1   | 46.4   | 46.5   |
| 97.5°  | 57.0   | 57.1   | 57.4   | 57.6   | 57.9   | 58.1   | 57.9   | 57.6   | 57.4   | 57.1   | 57.0   |
| 100°   | 68.7   | 68.9   | 69.4   | 69.9   | 70.3   | 70.8   | 70.3   | 69.9   | 69.4   | 68.9   | 68.7   |
| 102.5° | 73.9   | 74.3   | 75.0   | 75.7   | 76.4   | 77.1   | 76.4   | 75.7   | 75.0   | 74.3   | 73.9   |
| 105°   | 76.0   | 76.5   | 77.4   | 78.4   | 79.3   | 80.3   | 79.3   | 78.4   | 77.4   | 76.5   | 76.0   |
| 107.5° | 78.2   | 78.7   | 79.6   | 80.5   | 81.5   | 82.4   | 81.5   | 80.5   | 79.6   | 78.7   | 78.2   |
| 110°   | 79.2   | 79.7   | 80.6   | 81.5   | 82.5   | 83.4   | 82.5   | 81.5   | 80.6   | 79.7   | 79.2   |

TEST NUMBER: P997796

CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 81.3   | 81.7   | 82.4   | 83.1   | 83.8   | 84.5   | 83.8   | 83.1   | 82.4   | 81.7   | 81.3   |
| 115°   | 162.7  | 154.2  | 137.3  | 120.4  | 103.5  | 86.6   | 103.5  | 120.4  | 137.3  | 154.2  | 162.7  |
| 117.5° | 557.7  | 527.0  | 465.5  | 404.0  | 342.5  | 281.0  | 342.5  | 404.0  | 465.5  | 527.0  | 557.7  |
| 120°   | 786.9  | 771.1  | 739.4  | 707.7  | 676.0  | 644.3  | 676.0  | 707.7  | 739.4  | 771.1  | 786.9  |
| 122.5° | 842.9  | 843.0  | 843.2  | 843.5  | 843.7  | 843.9  | 843.7  | 843.5  | 843.2  | 843.0  | 842.9  |
| 125°   | 899.9  | 900.3  | 901.0  | 901.7  | 902.4  | 903.1  | 902.4  | 901.7  | 901.0  | 900.3  | 899.9  |
| 127.5° | 954.8  | 954.9  | 955.2  | 955.4  | 955.7  | 955.9  | 955.7  | 955.4  | 955.2  | 954.9  | 954.8  |
| 130°   | 1005.5 | 1005.4 | 1005.2 | 1004.9 | 1004.7 | 1004.5 | 1004.7 | 1004.9 | 1005.2 | 1005.4 | 1005.5 |
| 132.5° | 1053.1 | 1053.0 | 1052.7 | 1052.5 | 1052.2 | 1052.0 | 1052.2 | 1052.5 | 1052.7 | 1053.0 | 1053.1 |
| 135°   | 1099.6 | 1099.4 | 1098.9 | 1098.4 | 1097.9 | 1097.4 | 1097.9 | 1098.4 | 1098.9 | 1099.4 | 1099.6 |
| 137.5° | 1142.9 | 1142.5 | 1141.8 | 1141.1 | 1140.4 | 1139.7 | 1140.4 | 1141.1 | 1141.8 | 1142.5 | 1142.9 |
| 140°   | 1184.1 | 1183.5 | 1182.3 | 1181.2 | 1180.0 | 1178.8 | 1180.0 | 1181.2 | 1182.3 | 1183.5 | 1184.1 |
| 142.5° | 1222.1 | 1221.5 | 1220.3 | 1219.2 | 1218.0 | 1216.8 | 1218.0 | 1219.2 | 1220.3 | 1221.5 | 1222.1 |
| 145°   | 1256.9 | 1256.3 | 1255.2 | 1254.0 | 1252.9 | 1251.7 | 1252.9 | 1254.0 | 1255.2 | 1256.3 | 1256.9 |
| 147.5° | 1287.6 | 1287.1 | 1286.2 | 1285.2 | 1284.3 | 1283.3 | 1284.3 | 1285.2 | 1286.2 | 1287.1 | 1287.6 |
| 150°   | 1317.1 | 1316.5 | 1315.4 | 1314.2 | 1313.1 | 1311.9 | 1313.1 | 1314.2 | 1315.4 | 1316.5 | 1317.1 |
| 152.5° | 1343.5 | 1342.7 | 1341.1 | 1339.4 | 1337.8 | 1336.2 | 1337.8 | 1339.4 | 1341.1 | 1342.7 | 1343.5 |
| 155°   | 1366.8 | 1365.9 | 1364.0 | 1362.1 | 1360.2 | 1358.3 | 1360.2 | 1362.1 | 1364.0 | 1365.9 | 1366.8 |
| 157.5° | 1387.9 | 1387.0 | 1385.1 | 1383.2 | 1381.4 | 1379.5 | 1381.4 | 1383.2 | 1385.1 | 1387.0 | 1387.9 |
| 160°   | 1404.8 | 1404.0 | 1402.3 | 1400.7 | 1399.0 | 1397.4 | 1399.0 | 1400.7 | 1402.3 | 1404.0 | 1404.8 |
| 162.5° | 1421.7 | 1420.6 | 1418.5 | 1416.4 | 1414.3 | 1412.2 | 1414.3 | 1416.4 | 1418.5 | 1420.6 | 1421.7 |
| 165°   | 1434.4 | 1433.6 | 1431.9 | 1430.3 | 1428.6 | 1427.0 | 1428.6 | 1430.3 | 1431.9 | 1433.6 | 1434.4 |
| 167.5° | 1446.0 | 1444.9 | 1442.8 | 1440.7 | 1438.6 | 1436.5 | 1438.6 | 1440.7 | 1442.8 | 1444.9 | 1446.0 |
| 170°   | 1454.5 | 1453.4 | 1451.3 | 1449.2 | 1447.0 | 1444.9 | 1447.0 | 1449.2 | 1451.3 | 1453.4 | 1454.5 |
| 172.5° | 1460.8 | 1459.7 | 1457.6 | 1455.5 | 1453.4 | 1451.3 | 1453.4 | 1455.5 | 1457.6 | 1459.7 | 1460.8 |
| 175°   | 1465.0 | 1463.8 | 1461.5 | 1459.2 | 1456.8 | 1454.5 | 1456.8 | 1459.2 | 1461.5 | 1463.8 | 1465.0 |
| 177.5° | 1466.1 | 1465.0 | 1462.9 | 1460.8 | 1458.7 | 1456.6 | 1458.7 | 1460.8 | 1462.9 | 1465.0 | 1466.1 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

TEST NUMBER: P997796

CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1886.2 | 1898.4 | 1893.9 | 1877.1 | 1896.9 | 1896.9 | 1910.7 | 1910.7 | 1927.5 | 1933.6 | 1942.7 |
| 5°     | 1779.3 | 1788.5 | 1796.1 | 1788.5 | 1802.2 | 1823.6 | 1835.8 | 1846.5 | 1869.4 | 1878.6 | 1892.3 |
| 7.5°   | 1664.8 | 1681.6 | 1689.2 | 1689.2 | 1712.1 | 1736.6 | 1761.0 | 1776.3 | 1808.3 | 1820.6 | 1834.3 |
| 10°    | 1553.3 | 1573.1 | 1588.4 | 1586.9 | 1625.1 | 1640.3 | 1670.9 | 1706.0 | 1738.1 | 1756.4 | 1776.3 |
| 12.5°  | 1435.7 | 1446.4 | 1467.7 | 1498.3 | 1507.5 | 1534.9 | 1570.1 | 1614.4 | 1672.4 | 1689.2 | 1718.2 |
| 15°    | 1337.9 | 1366.9 | 1383.7 | 1397.5 | 1418.9 | 1444.8 | 1483.0 | 1525.8 | 1583.8 | 1620.5 | 1651.0 |
| 17.5°  | 1255.5 | 1293.6 | 1304.3 | 1301.3 | 1328.8 | 1368.5 | 1412.8 | 1444.8 | 1496.8 | 1541.1 | 1570.1 |
| 20°    | 1188.2 | 1203.5 | 1221.8 | 1229.5 | 1250.9 | 1293.6 | 1336.4 | 1373.1 | 1415.8 | 1450.9 | 1484.5 |
| 22.5°  | 1121.0 | 1133.3 | 1148.5 | 1162.3 | 1179.1 | 1203.5 | 1244.8 | 1290.6 | 1331.8 | 1365.4 | 1403.6 |
| 25°    | 1066.1 | 1073.7 | 1087.4 | 1098.1 | 1116.5 | 1133.3 | 1162.3 | 1212.7 | 1261.6 | 1281.4 | 1315.0 |
| 27.5°  | 1012.6 | 1018.7 | 1027.9 | 1040.1 | 1049.3 | 1066.1 | 1092.0 | 1133.3 | 1183.7 | 1203.5 | 1249.3 |
| 30°    | 965.3  | 969.8  | 979.0  | 985.1  | 989.7  | 1009.6 | 1029.4 | 1061.5 | 1099.7 | 1127.2 | 1160.8 |
| 32.5°  | 921.0  | 925.6  | 934.7  | 936.2  | 942.4  | 953.0  | 971.4  | 1000.4 | 1034.0 | 1056.9 | 1085.9 |
| 35°    | 872.1  | 875.1  | 884.3  | 887.4  | 892.0  | 901.1  | 914.9  | 936.2  | 966.8  | 983.6  | 1009.6 |
| 37.5°  | 833.9  | 832.4  | 838.5  | 843.1  | 849.2  | 853.8  | 858.3  | 879.7  | 902.6  | 917.9  | 937.8  |
| 40°    | 792.7  | 789.6  | 791.1  | 797.3  | 800.3  | 806.4  | 806.4  | 827.8  | 843.1  | 855.3  | 870.6  |
| 42.5°  | 751.4  | 749.9  | 746.9  | 749.9  | 753.0  | 754.5  | 756.0  | 771.3  | 786.6  | 797.3  | 814.1  |
| 45°    | 710.2  | 708.7  | 705.6  | 707.1  | 707.1  | 710.2  | 714.8  | 720.9  | 731.6  | 740.7  | 749.9  |
| 47.5°  | 672.0  | 669.0  | 664.4  | 662.9  | 665.9  | 665.9  | 665.9  | 672.0  | 682.7  | 685.8  | 694.9  |
| 50°    | 632.3  | 627.7  | 621.6  | 618.6  | 618.6  | 617.0  | 620.1  | 621.6  | 630.8  | 633.8  | 641.5  |
| 52.5°  | 589.5  | 586.5  | 580.4  | 574.3  | 575.8  | 572.7  | 574.3  | 575.8  | 578.9  | 583.4  | 588.0  |
| 55°    | 546.8  | 540.7  | 536.1  | 534.6  | 530.0  | 530.0  | 525.4  | 531.5  | 530.0  | 531.5  | 537.6  |
| 57.5°  | 505.5  | 499.4  | 491.8  | 488.7  | 484.2  | 482.6  | 479.6  | 478.0  | 479.6  | 484.2  | 488.7  |
| 60°    | 456.7  | 453.6  | 449.0  | 444.4  | 441.4  | 436.8  | 433.8  | 433.8  | 432.2  | 432.2  | 433.8  |
| 62.5°  | 409.3  | 407.8  | 401.7  | 400.2  | 397.1  | 394.0  | 389.5  | 386.4  | 386.4  | 389.5  | 391.0  |
| 65°    | 363.5  | 362.0  | 357.4  | 355.9  | 348.2  | 345.2  | 343.6  | 342.1  | 339.1  | 339.1  | 339.1  |
| 67.5°  | 320.7  | 316.2  | 316.2  | 308.5  | 302.4  | 299.4  | 296.3  | 294.8  | 294.8  | 294.8  | 296.3  |
| 70°    | 273.4  | 273.4  | 268.8  | 264.2  | 258.1  | 259.6  | 255.1  | 250.5  | 250.5  | 247.4  | 249.0  |
| 72.5°  | 227.6  | 226.0  | 221.5  | 219.9  | 215.4  | 210.8  | 207.7  | 210.8  | 206.2  | 204.7  | 206.2  |
| 75°    | 183.3  | 181.8  | 178.7  | 175.6  | 177.2  | 172.6  | 168.0  | 166.5  | 166.5  | 163.4  | 163.4  |
| 77.5°  | 140.5  | 143.6  | 137.5  | 135.9  | 132.9  | 129.8  | 128.3  | 126.8  | 126.8  | 126.8  | 129.8  |
| 80°    | 97.7   | 99.3   | 99.3   | 96.2   | 97.7   | 93.2   | 93.2   | 93.2   | 88.6   | 90.1   | 91.6   |
| 82.5°  | 62.6   | 62.6   | 61.1   | 62.6   | 61.1   | 61.1   | 59.6   | 59.6   | 58.0   | 58.0   | 59.6   |
| 85°    | 35.1   | 33.6   | 32.1   | 35.1   | 33.6   | 33.6   | 32.1   | 32.1   | 32.1   | 32.1   | 32.1   |
| 87.5°  | 7.6    | 9.2    | 9.2    | 9.2    | 9.2    | 10.7   | 10.7   | 10.7   | 12.2   | 12.2   | 12.2   |
| 90°    | 25.8   | 24.6   | 23.5   | 22.3   | 21.1   | 19.2   | 17.4   | 15.5   | 13.6   | 12.7   | 11.4   |
| 92.5°  | 27.3   | 26.8   | 26.3   | 25.8   | 25.3   | 24.6   | 23.9   | 23.2   | 22.5   | 22.2   | 22.7   |
| 95°    | 45.9   | 44.7   | 43.6   | 42.4   | 41.2   | 39.6   | 37.9   | 36.3   | 34.6   | 33.8   | 37.7   |
| 97.5°  | 56.7   | 56.0   | 55.3   | 54.6   | 53.9   | 50.1   | 46.4   | 42.6   | 38.9   | 37.0   | 46.6   |
| 100°   | 67.8   | 65.9   | 64.0   | 62.1   | 60.2   | 56.2   | 52.2   | 48.2   | 44.2   | 42.2   | 58.3   |
| 102.5° | 72.6   | 70.0   | 67.5   | 64.9   | 62.3   | 105.0  | 147.8  | 190.5  | 233.2  | 254.6  | 254.8  |
| 105°   | 74.7   | 72.1   | 69.6   | 67.0   | 64.4   | 128.5  | 192.6  | 256.7  | 320.8  | 352.8  | 349.3  |
| 107.5° | 76.9   | 74.3   | 71.7   | 69.1   | 66.5   | 145.6  | 224.7  | 303.8  | 382.9  | 422.5  | 419.6  |
| 110°   | 90.9   | 114.4  | 137.9  | 161.3  | 184.8  | 252.6  | 320.5  | 388.3  | 456.2  | 490.1  | 487.6  |

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 131.9  | 233.1  | 334.2  | 435.4  | 536.6  | 540.6  | 544.6  | 548.5  | 552.5  | 554.5  | 552.4  |
| 115°   | 217.0  | 325.7  | 434.4  | 543.0  | 651.7  | 645.8  | 640.0  | 634.1  | 628.2  | 625.3  | 623.3  |
| 117.5° | 574.5  | 608.0  | 641.6  | 675.1  | 708.7  | 704.7  | 700.7  | 696.8  | 692.8  | 690.8  | 688.5  |
| 120°   | 785.5  | 782.7  | 779.8  | 777.0  | 774.2  | 770.0  | 765.8  | 761.5  | 757.3  | 755.2  | 753.4  |
| 122.5° | 842.2  | 840.8  | 839.3  | 837.9  | 836.5  | 831.8  | 827.1  | 822.4  | 817.7  | 815.4  | 813.5  |
| 125°   | 899.1  | 897.4  | 895.8  | 894.1  | 892.5  | 888.1  | 883.6  | 879.2  | 874.7  | 872.5  | 871.0  |
| 127.5° | 953.6  | 951.3  | 949.0  | 946.6  | 944.3  | 940.8  | 937.2  | 933.7  | 930.2  | 928.4  | 926.8  |
| 130°   | 1004.2 | 1001.6 | 999.1  | 996.5  | 993.9  | 991.3  | 988.7  | 986.2  | 983.6  | 982.3  | 980.4  |
| 132.5° | 1052.0 | 1049.9 | 1047.8 | 1045.7 | 1043.6 | 1041.0 | 1038.4 | 1035.9 | 1033.3 | 1032.0 | 1030.5 |
| 135°   | 1098.4 | 1096.1 | 1093.7 | 1091.4 | 1089.0 | 1086.9 | 1084.8 | 1082.7 | 1080.6 | 1079.5 | 1077.6 |
| 137.5° | 1141.7 | 1139.4 | 1137.0 | 1134.7 | 1132.3 | 1129.9 | 1127.6 | 1125.2 | 1122.9 | 1121.7 | 1120.3 |
| 140°   | 1183.0 | 1180.9 | 1178.8 | 1176.6 | 1174.5 | 1171.9 | 1169.3 | 1166.8 | 1164.2 | 1162.9 | 1162.0 |
| 142.5° | 1221.2 | 1219.3 | 1217.4 | 1215.5 | 1213.6 | 1210.6 | 1207.5 | 1204.5 | 1201.4 | 1199.9 | 1199.1 |
| 145°   | 1256.1 | 1254.4 | 1252.8 | 1251.1 | 1249.5 | 1245.5 | 1241.5 | 1237.6 | 1233.6 | 1231.6 | 1231.7 |
| 147.5° | 1287.0 | 1285.8 | 1284.7 | 1283.5 | 1282.3 | 1278.3 | 1274.3 | 1270.3 | 1266.3 | 1264.3 | 1264.7 |
| 150°   | 1316.4 | 1315.0 | 1313.6 | 1312.2 | 1310.8 | 1307.0 | 1303.3 | 1299.5 | 1295.8 | 1293.9 | 1294.7 |
| 152.5° | 1342.8 | 1341.4 | 1340.0 | 1338.6 | 1337.2 | 1333.7 | 1330.2 | 1326.7 | 1323.2 | 1321.4 | 1322.3 |
| 155°   | 1366.1 | 1364.7 | 1363.2 | 1361.8 | 1360.4 | 1357.6 | 1354.8 | 1352.0 | 1349.2 | 1347.8 | 1348.9 |
| 157.5° | 1387.1 | 1385.4 | 1383.8 | 1382.1 | 1380.5 | 1378.4 | 1376.3 | 1374.2 | 1372.1 | 1371.0 | 1371.9 |
| 160°   | 1404.1 | 1402.7 | 1401.3 | 1399.9 | 1398.5 | 1397.1 | 1395.7 | 1394.2 | 1392.8 | 1392.1 | 1392.8 |
| 162.5° | 1420.9 | 1419.2 | 1417.6 | 1415.9 | 1414.3 | 1413.1 | 1411.9 | 1410.8 | 1409.6 | 1409.0 | 1409.7 |
| 165°   | 1433.6 | 1431.9 | 1430.3 | 1428.6 | 1427.0 | 1426.3 | 1425.6 | 1424.9 | 1424.2 | 1423.8 | 1424.5 |
| 167.5° | 1445.2 | 1443.5 | 1441.9 | 1440.2 | 1438.6 | 1437.9 | 1437.2 | 1436.5 | 1435.8 | 1435.4 | 1436.1 |
| 170°   | 1453.7 | 1452.0 | 1450.4 | 1448.7 | 1447.1 | 1446.6 | 1446.1 | 1445.6 | 1445.1 | 1444.9 | 1445.6 |
| 172.5° | 1460.0 | 1458.3 | 1456.7 | 1455.0 | 1453.4 | 1452.9 | 1452.5 | 1452.0 | 1451.5 | 1451.3 | 1452.0 |
| 175°   | 1464.2 | 1462.5 | 1460.9 | 1459.2 | 1457.6 | 1457.1 | 1456.7 | 1456.2 | 1455.7 | 1455.5 | 1456.3 |
| 177.5° | 1465.3 | 1463.6 | 1462.0 | 1460.3 | 1458.7 | 1458.5 | 1458.2 | 1458.0 | 1457.7 | 1457.6 | 1458.4 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

TEST NUMBER: P997796

CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1950.4 | 1950.4 | 1973.3 | 1997.7 |
| 5°     | 1907.6 | 1918.3 | 1955.0 | 1988.6 |
| 7.5°   | 1866.4 | 1884.7 | 1930.5 | 1973.3 |
| 10°    | 1816.0 | 1840.4 | 1896.9 | 1947.3 |
| 12.5°  | 1767.1 | 1790.0 | 1855.7 | 1912.2 |
| 15°    | 1698.4 | 1727.4 | 1797.6 | 1867.9 |
| 17.5°  | 1629.6 | 1658.7 | 1744.2 | 1826.7 |
| 20°    | 1548.7 | 1586.9 | 1683.1 | 1793.1 |
| 22.5°  | 1473.9 | 1521.2 | 1628.1 | 1716.7 |
| 25°    | 1391.4 | 1464.7 | 1564.0 | 1678.5 |
| 27.5°  | 1318.1 | 1391.4 | 1492.2 | 1608.3 |
| 30°    | 1235.6 | 1310.4 | 1414.3 | 1521.2 |
| 32.5°  | 1156.2 | 1224.9 | 1325.7 | 1457.1 |
| 35°    | 1073.7 | 1139.4 | 1237.1 | 1370.0 |
| 37.5°  | 998.9  | 1063.0 | 1169.9 | 1292.1 |
| 40°    | 925.6  | 992.8  | 1084.4 | 1206.6 |
| 42.5°  | 856.8  | 916.4  | 998.9  | 1121.0 |
| 45°    | 794.2  | 837.0  | 913.3  | 1027.9 |
| 47.5°  | 728.5  | 766.7  | 837.0  | 951.5  |
| 50°    | 667.4  | 699.5  | 760.6  | 867.5  |
| 52.5°  | 607.9  | 635.4  | 691.9  | 777.4  |
| 55°    | 554.4  | 580.4  | 621.6  | 705.6  |
| 57.5°  | 499.4  | 519.3  | 559.0  | 626.2  |
| 60°    | 446.0  | 464.3  | 496.4  | 551.4  |
| 62.5°  | 392.5  | 407.8  | 438.3  | 482.6  |
| 65°    | 345.2  | 357.4  | 380.3  | 418.5  |
| 67.5°  | 299.4  | 307.0  | 325.3  | 355.9  |
| 70°    | 255.1  | 261.2  | 276.4  | 300.9  |
| 72.5°  | 207.7  | 213.8  | 230.6  | 247.4  |
| 75°    | 168.0  | 169.5  | 181.8  | 195.5  |
| 77.5°  | 131.3  | 129.8  | 139.0  | 149.7  |
| 80°    | 90.1   | 94.7   | 102.3  | 106.9  |
| 82.5°  | 61.1   | 62.6   | 65.7   | 68.7   |
| 85°    | 33.6   | 35.1   | 35.1   | 39.7   |
| 87.5°  | 13.7   | 15.3   | 15.3   | 16.8   |
| 90°    | 8.8    | 6.3    | 3.7    | 1.1    |
| 92.5°  | 23.6   | 24.5   | 25.5   | 26.4   |
| 95°    | 45.4   | 53.2   | 60.9   | 68.7   |
| 97.5°  | 65.9   | 85.1   | 104.4  | 123.6  |
| 100°   | 90.5   | 122.6  | 154.8  | 187.0  |
| 102.5° | 255.3  | 255.8  | 256.2  | 256.7  |
| 105°   | 342.2  | 335.2  | 328.1  | 321.1  |
| 107.5° | 413.7  | 407.8  | 402.0  | 396.1  |
| 110°   | 482.7  | 477.8  | 472.8  | 467.9  |



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CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 548.2  | 543.9  | 539.7  | 535.5  |
| 115°   | 619.3  | 615.3  | 611.3  | 607.3  |
| 117.5° | 683.8  | 679.1  | 674.4  | 669.7  |
| 120°   | 749.9  | 746.4  | 742.9  | 739.4  |
| 122.5° | 809.8  | 806.0  | 802.3  | 798.5  |
| 125°   | 867.9  | 864.8  | 861.8  | 858.7  |
| 127.5° | 923.5  | 920.2  | 917.0  | 913.7  |
| 130°   | 976.7  | 972.9  | 969.2  | 965.4  |
| 132.5° | 1027.4 | 1024.3 | 1021.3 | 1018.2 |
| 135°   | 1073.9 | 1070.1 | 1066.4 | 1062.6 |
| 137.5° | 1117.5 | 1114.7 | 1111.9 | 1109.1 |
| 140°   | 1160.1 | 1158.2 | 1156.4 | 1154.5 |
| 142.5° | 1197.4 | 1195.8 | 1194.1 | 1192.5 |
| 145°   | 1231.9 | 1232.2 | 1232.4 | 1232.6 |
| 147.5° | 1265.4 | 1266.1 | 1266.8 | 1267.5 |
| 150°   | 1296.4 | 1298.0 | 1299.7 | 1301.3 |
| 152.5° | 1324.2 | 1326.1 | 1327.9 | 1329.8 |
| 155°   | 1351.0 | 1353.1 | 1355.2 | 1357.3 |
| 157.5° | 1373.8 | 1375.7 | 1377.6 | 1379.5 |
| 160°   | 1394.2 | 1395.7 | 1397.1 | 1398.5 |
| 162.5° | 1411.1 | 1412.6 | 1414.0 | 1415.4 |
| 165°   | 1425.9 | 1427.4 | 1428.8 | 1430.2 |
| 167.5° | 1437.5 | 1439.0 | 1440.4 | 1441.8 |
| 170°   | 1447.0 | 1448.5 | 1449.9 | 1451.3 |
| 172.5° | 1453.4 | 1454.8 | 1456.2 | 1457.6 |
| 175°   | 1458.0 | 1459.6 | 1461.3 | 1462.9 |
| 177.5° | 1460.1 | 1461.7 | 1463.4 | 1465.0 |
| 180°   | 1459.7 | 1459.7 | 1459.7 | 1459.7 |

TEST NUMBER: P997796

CATALOG NUMBER: SA2XXDIP-B1005D1080UB2750-4F0-XX-W2A-A\_4000K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 17.88            | 18.72 | 18.84 | 19.69 | 20.95 | 15.38          | 16.21 | 16.33 | 17.18 | 18.44 |
|                 | 3H   | 18.69            | 19.44 | 19.66 | 20.42 | 21.70 | 16.72          | 17.46 | 17.69 | 18.44 | 19.73 |
|                 | 4H   | 18.86            | 19.56 | 19.84 | 20.55 | 21.84 | 17.18          | 17.88 | 18.16 | 18.87 | 20.16 |
|                 | 6H   | 18.90            | 19.55 | 19.90 | 20.54 | 21.85 | 17.49          | 18.13 | 18.48 | 19.12 | 20.43 |
|                 | 8H   | 18.88            | 19.50 | 19.88 | 20.50 | 21.81 | 17.57          | 18.19 | 18.57 | 19.19 | 20.50 |
|                 | 12H  | 18.84            | 19.43 | 19.85 | 20.43 | 21.76 | 17.61          | 18.20 | 18.62 | 19.19 | 20.52 |
| 4H              | 2H   | 17.92            | 18.63 | 18.91 | 19.61 | 20.90 | 15.82          | 16.52 | 16.81 | 17.51 | 18.80 |
|                 | 3H   | 18.90            | 19.49 | 19.90 | 20.50 | 21.81 | 17.28          | 17.86 | 18.28 | 18.88 | 20.18 |
|                 | 4H   | 19.18            | 19.71 | 20.18 | 20.72 | 22.05 | 17.81          | 18.35 | 18.82 | 19.35 | 20.68 |
|                 | 6H   | 19.30            | 19.76 | 20.32 | 20.79 | 22.12 | 18.19          | 18.65 | 19.21 | 19.68 | 21.01 |
|                 | 8H   | 19.30            | 19.73 | 20.32 | 20.75 | 22.10 | 18.30          | 18.73 | 19.32 | 19.75 | 21.09 |
|                 | 12H  | 19.26            | 19.65 | 20.30 | 20.69 | 22.04 | 18.35          | 18.74 | 19.39 | 19.78 | 21.13 |
| 8H              | 4H   | 19.18            | 19.61 | 20.20 | 20.63 | 21.98 | 17.95          | 18.38 | 18.97 | 19.40 | 20.75 |
|                 | 6H   | 19.36            | 19.71 | 20.40 | 20.78 | 22.12 | 18.39          | 18.74 | 19.43 | 19.80 | 21.14 |
|                 | 8H   | 19.39            | 19.70 | 20.44 | 20.75 | 22.11 | 18.54          | 18.85 | 19.59 | 19.90 | 21.26 |
|                 | 12H  | 19.37            | 19.65 | 20.43 | 20.69 | 22.10 | 18.63          | 18.90 | 19.68 | 19.94 | 21.35 |
| 12H             | 4H   | 19.14            | 19.53 | 20.18 | 20.56 | 21.91 | 17.92          | 18.31 | 18.96 | 19.35 | 20.70 |
|                 | 6H   | 19.34            | 19.65 | 20.39 | 20.70 | 22.06 | 18.38          | 18.70 | 19.44 | 19.75 | 21.11 |
|                 | 8H   | 19.37            | 19.64 | 20.42 | 20.69 | 22.09 | 18.54          | 18.81 | 19.60 | 19.86 | 21.26 |