

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: P997809

Luminaire Tested: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997809  
REPORT IS A COMBINATION OF REPORTS P983543 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

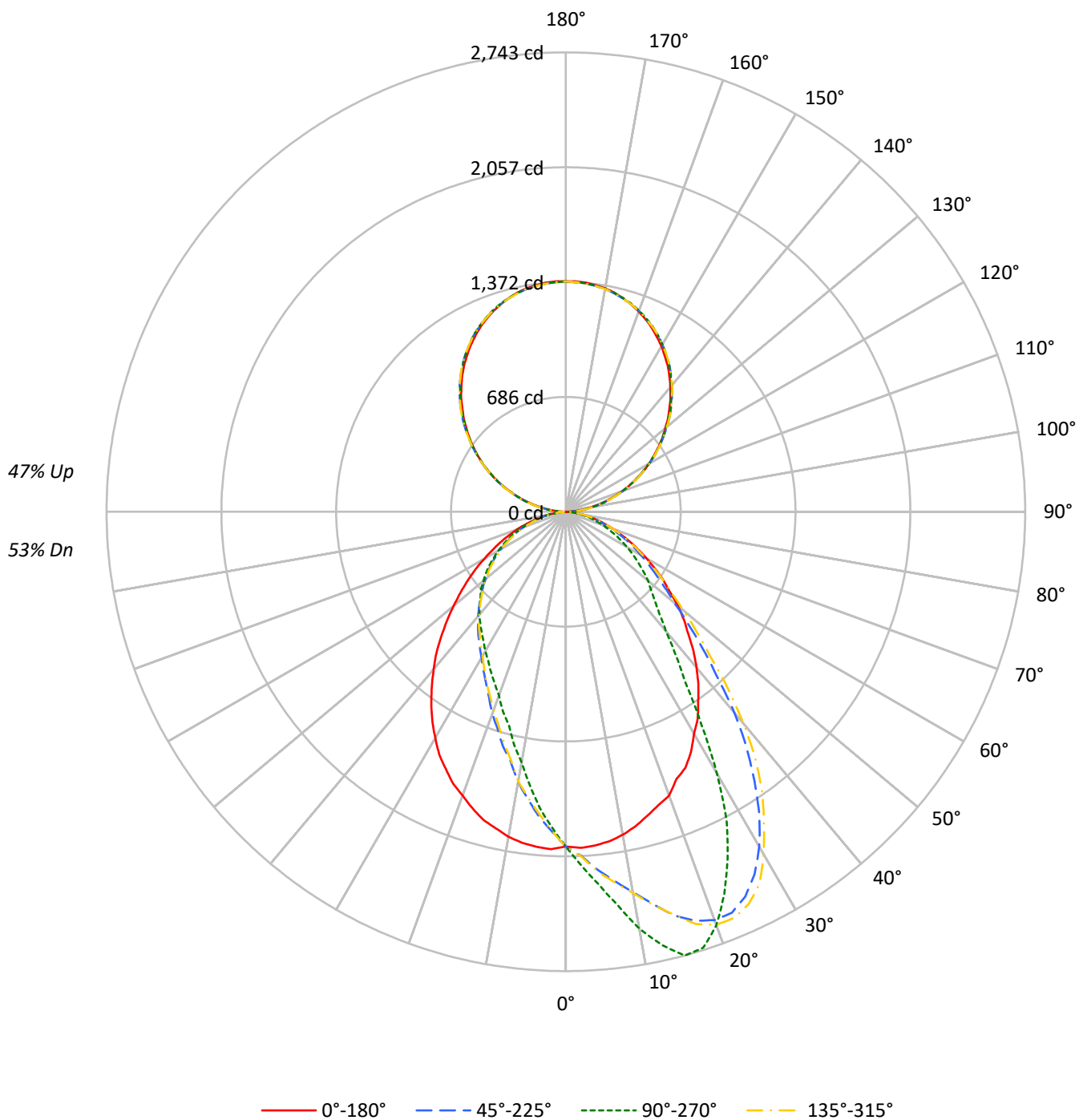
Lumens per Lamp: N/A  
Luminaire Lumens: 8259.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

### Luminous Intensity Polar Plot



TEST NUMBER: P997809

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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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 59 | 59 | 59 |
| 1   | 99  | 95  | 91  | 88  | 92  | 88  | 85  | 82  | 76 | 73 | 71 | 64 | 62 | 61 | 53 | 52 | 51 |
| 2   | 91  | 83  | 78  | 73  | 84  | 78  | 73  | 68  | 67 | 63 | 60 | 57 | 54 | 52 | 47 | 46 | 44 |
| 3   | 83  | 74  | 67  | 61  | 77  | 69  | 63  | 58  | 59 | 55 | 51 | 51 | 47 | 44 | 42 | 40 | 38 |
| 4   | 76  | 66  | 58  | 52  | 70  | 61  | 55  | 49  | 53 | 48 | 44 | 45 | 42 | 38 | 38 | 35 | 33 |
| 5   | 70  | 59  | 51  | 45  | 65  | 55  | 48  | 43  | 48 | 42 | 38 | 41 | 37 | 34 | 35 | 32 | 29 |
| 6   | 65  | 53  | 45  | 39  | 60  | 50  | 43  | 37  | 43 | 38 | 34 | 37 | 33 | 30 | 32 | 29 | 26 |
| 7   | 60  | 48  | 40  | 35  | 56  | 45  | 38  | 33  | 39 | 34 | 30 | 34 | 30 | 27 | 29 | 26 | 23 |
| 8   | 56  | 44  | 36  | 31  | 52  | 41  | 34  | 30  | 36 | 31 | 27 | 31 | 27 | 24 | 27 | 24 | 21 |
| 9   | 52  | 40  | 33  | 28  | 48  | 38  | 31  | 27  | 33 | 28 | 24 | 29 | 25 | 22 | 25 | 22 | 19 |
| 10  | 49  | 37  | 30  | 25  | 45  | 35  | 28  | 24  | 31 | 25 | 22 | 27 | 23 | 20 | 23 | 20 | 17 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 31633 | 31633 | 31633 | 31633 |
| 5°  | 31709 | 33727 | 31831 | 26833 |
| 10° | 31340 | 36820 | 31537 | 22123 |
| 15° | 30581 | 38835 | 31006 | 18635 |
| 20° | 30103 | 36464 | 30103 | 16197 |
| 25° | 29144 | 31327 | 29277 | 14485 |
| 30° | 27566 | 24625 | 28092 | 13119 |
| 35° | 26167 | 17029 | 26605 | 12005 |
| 40° | 24560 | 12857 | 24839 | 11114 |
| 45° | 22576 | 10566 | 22945 | 10154 |
| 50° | 20865 | 9273  | 20900 | 9296  |
| 55° | 18908 | 7902  | 19033 | 8363  |
| 60° | 16826 | 6600  | 17060 | 7298  |
| 65° | 14963 | 5368  | 15236 | 6232  |
| 70° | 13105 | 4212  | 13438 | 5028  |
| 75° | 10998 | 3057  | 11429 | 3646  |
| 80° | 8583  | 1938  | 9197  | 2163  |
| 85° | 5636  | 976   | 6074  | 722   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32700 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 190.3  | 2.3       |
| 10°-20°   | 554.0  | 6.7       |
| 20°-30°   | 804.0  | 9.7       |
| 30°-40°   | 847.6  | 10.3      |
| 40°-50°   | 750.0  | 9.1       |
| 50°-60°   | 598.9  | 7.3       |
| 60°-70°   | 406.8  | 4.9       |
| 70°-80°   | 208.1  | 2.5       |
| 80°-90°   | 53.1   | 0.6       |
| 90°-100°  | 85.1   | 1.0       |
| 100°-110° | 270.5  | 3.3       |
| 110°-120° | 462.9  | 5.6       |
| 120°-130° | 608.8  | 7.4       |
| 130°-140° | 683.4  | 8.3       |
| 140°-150° | 670.1  | 8.1       |
| 150°-160° | 562.1  | 6.8       |
| 160°-170° | 372.8  | 4.5       |
| 170°-180° | 130.3  | 1.6       |
| 0°-30°    | 1548.4 | 18.7      |
| 0°-40°    | 2396.0 | 29.0      |
| 0°-60°    | 3744.9 | 45.3      |
| 0°-90°    | 4412.9 | 53.4      |
| 90°-120°  | 818.5  | 9.9       |
| 90°-150°  | 2780.8 | 33.7      |
| 90°-180°  | 3846.0 | 46.6      |
| 0°-180°   | 8259.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1998 | 1998 | 1998 | 1998 | 1998 |      |
| 5°   | 2000 | 2232 | 2008 | 1776 | 2000 | 190  |
| 15°  | 1879 | 2743 | 1905 | 1316 | 1879 | 531  |
| 25°  | 1688 | 2286 | 1696 | 1057 | 1688 | 772  |
| 35°  | 1378 | 1244 | 1401 | 877  | 1378 | 862  |
| 45°  | 1034 | 750  | 1051 | 720  | 1034 | 802  |
| 55°  | 710  | 527  | 714  | 558  | 710  | 633  |
| 65°  | 421  | 324  | 429  | 376  | 421  | 418  |
| 75°  | 197  | 160  | 204  | 190  | 197  | 211  |
| 85°  | 40   | 42   | 43   | 31   | 40   | 47   |
| 90°  | 1    | 40   | 1    | 40   | 1    | 6    |
| 95°  | 60   | 72   | 60   | 72   | 60   | 67   |
| 105° | 250  | 258  | 250  | 258  | 250  | 264  |
| 115° | 464  | 464  | 464  | 464  | 464  | 459  |
| 125° | 676  | 678  | 676  | 678  | 676  | 604  |
| 135° | 874  | 885  | 874  | 885  | 874  | 675  |
| 145° | 1061 | 1073 | 1061 | 1073 | 1061 | 663  |
| 155° | 1213 | 1222 | 1213 | 1222 | 1213 | 558  |
| 165° | 1320 | 1321 | 1320 | 1321 | 1320 | 372  |
| 175° | 1373 | 1369 | 1373 | 1369 | 1373 | 130  |
| 180° | 1376 | 1376 | 1376 | 1376 | 1376 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 2009.1 | 2013.7 | 2021.4 | 2022.9 | 2038.3 | 2050.6 | 2064.4 | 2064.4 | 2069.0 | 2067.5 | 2055.2 |
| 5°     | 1999.9 | 2013.7 | 2033.7 | 2050.6 | 2078.2 | 2090.5 | 2109.0 | 2122.8 | 2135.1 | 2144.3 | 2142.8 |
| 7.5°   | 1984.5 | 2009.1 | 2038.3 | 2070.6 | 2107.4 | 2128.9 | 2155.0 | 2179.6 | 2196.5 | 2211.9 | 2222.6 |
| 10°    | 1958.4 | 1999.9 | 2039.8 | 2082.8 | 2130.5 | 2159.6 | 2190.4 | 2222.6 | 2248.7 | 2277.9 | 2305.6 |
| 12.5°  | 1923.1 | 1983.0 | 2032.2 | 2089.0 | 2147.4 | 2179.6 | 2228.8 | 2253.3 | 2304.0 | 2377.8 | 2397.7 |
| 15°    | 1878.6 | 1960.0 | 2006.0 | 2078.2 | 2155.0 | 2181.2 | 2248.7 | 2288.7 | 2393.1 | 2439.2 | 2494.5 |
| 17.5°  | 1837.1 | 1927.7 | 1989.1 | 2072.1 | 2147.4 | 2198.0 | 2264.1 | 2345.5 | 2433.1 | 2499.1 | 2560.5 |
| 20°    | 1803.3 | 1890.8 | 1964.6 | 2056.7 | 2152.0 | 2216.5 | 2285.6 | 2383.9 | 2479.1 | 2546.7 | 2594.3 |
| 22.5°  | 1726.5 | 1838.6 | 1924.6 | 2027.5 | 2142.8 | 2231.8 | 2297.9 | 2405.4 | 2508.3 | 2549.8 | 2591.3 |
| 25°    | 1688.1 | 1784.9 | 1884.7 | 2001.4 | 2136.6 | 2242.6 | 2299.4 | 2419.2 | 2509.9 | 2525.2 | 2534.4 |
| 27.5°  | 1617.4 | 1726.5 | 1843.2 | 1976.9 | 2135.1 | 2224.2 | 2296.4 | 2405.4 | 2477.6 | 2466.9 | 2439.2 |
| 30°    | 1529.9 | 1663.5 | 1792.5 | 1936.9 | 2113.6 | 2210.3 | 2277.9 | 2377.8 | 2414.6 | 2359.3 | 2310.2 |
| 32.5°  | 1465.4 | 1591.3 | 1734.2 | 1901.6 | 2089.0 | 2181.2 | 2247.2 | 2325.5 | 2333.2 | 2233.4 | 2150.4 |
| 35°    | 1377.8 | 1517.6 | 1678.9 | 1855.5 | 2047.5 | 2130.5 | 2191.9 | 2239.5 | 2202.7 | 2062.9 | 1964.6 |
| 37.5°  | 1299.5 | 1437.7 | 1609.8 | 1789.5 | 1990.7 | 2072.1 | 2121.2 | 2128.9 | 2038.3 | 1915.4 | 1771.0 |
| 40°    | 1213.5 | 1356.3 | 1536.0 | 1725.0 | 1927.7 | 1998.4 | 2029.1 | 2006.0 | 1875.5 | 1732.6 | 1565.2 |
| 42.5°  | 1127.4 | 1268.8 | 1462.3 | 1655.8 | 1847.8 | 1907.7 | 1920.0 | 1857.1 | 1697.3 | 1529.9 | 1336.3 |
| 45°    | 1033.7 | 1181.2 | 1374.7 | 1569.8 | 1755.7 | 1789.5 | 1791.0 | 1700.4 | 1511.4 | 1336.3 | 1156.6 |
| 47.5°  | 956.9  | 1093.6 | 1285.7 | 1480.7 | 1637.4 | 1660.4 | 1651.2 | 1546.8 | 1340.9 | 1144.3 | 987.7  |
| 50°    | 872.5  | 1003.0 | 1193.5 | 1385.5 | 1519.1 | 1525.3 | 1502.2 | 1353.2 | 1152.0 | 972.3  | 847.9  |
| 52.5°  | 781.8  | 913.9  | 1089.0 | 1273.4 | 1393.2 | 1384.0 | 1339.4 | 1179.7 | 990.7  | 841.7  | 746.5  |
| 55°    | 709.6  | 826.4  | 990.7  | 1170.4 | 1254.9 | 1228.8 | 1179.7 | 1016.8 | 867.9  | 741.9  | 659.0  |
| 57.5°  | 629.8  | 732.7  | 894.0  | 1050.6 | 1099.8 | 1075.2 | 1026.1 | 874.0  | 735.8  | 640.5  | 585.2  |
| 60°    | 554.5  | 648.2  | 789.5  | 920.1  | 958.5  | 932.4  | 875.5  | 738.8  | 639.0  | 559.1  | 517.6  |
| 62.5°  | 485.4  | 566.8  | 685.1  | 804.9  | 820.2  | 794.1  | 745.0  | 634.4  | 548.4  | 485.4  | 454.7  |
| 65°    | 420.9  | 497.7  | 592.9  | 683.5  | 697.4  | 669.7  | 619.0  | 539.1  | 467.0  | 427.0  | 397.8  |
| 67.5°  | 357.9  | 419.3  | 503.8  | 569.9  | 577.5  | 551.4  | 510.0  | 445.4  | 400.9  | 357.9  | 336.4  |
| 70°    | 302.6  | 348.7  | 414.7  | 468.5  | 471.6  | 447.0  | 425.5  | 367.1  | 333.3  | 302.6  | 285.7  |
| 72.5°  | 248.8  | 281.1  | 331.8  | 371.7  | 373.3  | 357.9  | 337.9  | 301.1  | 271.9  | 250.4  | 233.5  |
| 75°    | 196.6  | 224.3  | 255.0  | 290.3  | 288.8  | 276.5  | 261.1  | 238.1  | 213.5  | 199.7  | 192.0  |
| 77.5°  | 150.5  | 167.4  | 192.0  | 215.0  | 215.0  | 208.9  | 199.7  | 182.8  | 167.4  | 153.6  | 145.9  |
| 80°    | 107.5  | 118.3  | 138.2  | 145.9  | 149.0  | 147.5  | 139.8  | 127.5  | 121.3  | 110.6  | 107.5  |
| 82.5°  | 69.1   | 76.8   | 86.0   | 93.7   | 98.3   | 95.2   | 93.7   | 87.6   | 78.3   | 75.3   | 72.2   |
| 85°    | 39.9   | 43.0   | 47.6   | 52.2   | 53.8   | 52.2   | 55.3   | 50.7   | 46.1   | 46.1   | 44.5   |
| 87.5°  | 16.9   | 18.4   | 21.5   | 21.5   | 23.0   | 23.0   | 21.5   | 23.0   | 23.0   | 21.5   | 20.0   |
| 90°    | 1.2    | 4.3    | 7.4    | 10.5   | 13.6   | 15.1   | 17.9   | 23.6   | 29.3   | 34.9   | 40.6   |
| 92.5°  | 25.5   | 27.6   | 29.6   | 31.7   | 33.8   | 34.8   | 34.9   | 35.2   | 35.5   | 35.7   | 36.0   |
| 95°    | 60.4   | 63.0   | 65.6   | 68.1   | 70.7   | 72.0   | 72.3   | 72.8   | 73.3   | 73.8   | 74.3   |
| 97.5°  | 101.0  | 103.3  | 105.6  | 107.9  | 110.2  | 111.4  | 111.9  | 113.0  | 114.0  | 115.1  | 116.1  |
| 100°   | 147.4  | 149.5  | 151.5  | 153.6  | 155.7  | 156.7  | 157.1  | 157.9  | 158.6  | 159.4  | 160.2  |
| 102.5° | 196.2  | 197.8  | 199.3  | 200.9  | 202.4  | 203.2  | 203.7  | 204.7  | 205.8  | 206.8  | 207.8  |
| 105°   | 249.6  | 250.4  | 251.2  | 251.9  | 252.7  | 253.1  | 253.4  | 253.9  | 254.4  | 254.9  | 255.4  |
| 107.5° | 303.0  | 304.0  | 305.0  | 306.1  | 307.1  | 307.6  | 307.6  | 307.6  | 307.6  | 307.6  | 307.6  |
| 110°   | 354.1  | 355.6  | 357.2  | 358.7  | 360.2  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 409.8  | 411.4  | 412.9  | 414.5  | 416.0  | 416.8  | 416.7  | 416.4  | 416.1  | 415.9  | 415.6  |
| 115°   | 464.4  | 465.9  | 467.5  | 469.0  | 470.5  | 471.3  | 471.0  | 470.5  | 470.0  | 469.5  | 469.0  |
| 117.5° | 518.9  | 521.0  | 523.0  | 525.1  | 527.2  | 528.2  | 527.6  | 526.3  | 525.0  | 523.7  | 522.4  |
| 120°   | 573.5  | 575.6  | 577.6  | 579.7  | 581.8  | 582.8  | 581.8  | 579.7  | 577.6  | 575.6  | 573.5  |
| 122.5° | 623.4  | 626.0  | 628.6  | 631.1  | 633.7  | 635.0  | 634.4  | 633.1  | 631.8  | 630.5  | 629.2  |
| 125°   | 675.6  | 677.9  | 680.3  | 682.6  | 684.9  | 686.1  | 685.7  | 684.9  | 684.2  | 683.4  | 682.6  |
| 127.5° | 726.7  | 729.5  | 732.4  | 735.2  | 738.1  | 739.5  | 739.0  | 737.9  | 736.9  | 735.8  | 734.8  |
| 130°   | 774.3  | 777.7  | 781.0  | 784.4  | 787.7  | 789.4  | 789.1  | 788.6  | 788.1  | 787.6  | 787.1  |
| 132.5° | 827.7  | 830.3  | 832.9  | 835.4  | 838.0  | 839.3  | 839.4  | 839.7  | 840.0  | 840.2  | 840.5  |
| 135°   | 874.2  | 877.0  | 879.8  | 882.7  | 885.5  | 886.9  | 887.2  | 887.7  | 888.2  | 888.7  | 889.2  |
| 137.5° | 925.2  | 927.5  | 929.9  | 932.2  | 934.5  | 935.7  | 936.0  | 936.5  | 937.0  | 937.5  | 938.0  |
| 140°   | 970.5  | 972.8  | 975.2  | 977.5  | 979.8  | 981.0  | 981.6  | 982.9  | 984.2  | 985.5  | 986.8  |
| 142.5° | 1016.9 | 1019.2 | 1021.6 | 1023.9 | 1026.2 | 1027.4 | 1027.8 | 1028.6 | 1029.3 | 1030.1 | 1030.9 |
| 145°   | 1061.1 | 1062.9 | 1064.7 | 1066.5 | 1068.3 | 1069.2 | 1070.0 | 1071.5 | 1073.0 | 1074.6 | 1076.1 |
| 147.5° | 1100.5 | 1102.8 | 1105.2 | 1107.5 | 1109.8 | 1111.0 | 1111.5 | 1112.5 | 1113.6 | 1114.6 | 1115.6 |
| 150°   | 1141.2 | 1142.7 | 1144.3 | 1145.8 | 1147.3 | 1148.1 | 1148.6 | 1149.7 | 1150.7 | 1151.8 | 1152.8 |
| 152.5° | 1177.1 | 1178.7 | 1180.2 | 1181.8 | 1183.3 | 1184.1 | 1184.7 | 1186.0 | 1187.3 | 1188.6 | 1189.9 |
| 155°   | 1213.1 | 1213.9 | 1214.7 | 1215.4 | 1216.2 | 1216.6 | 1217.0 | 1217.8 | 1218.5 | 1219.3 | 1220.1 |
| 157.5° | 1244.5 | 1245.0 | 1245.5 | 1246.0 | 1246.5 | 1246.8 | 1247.1 | 1247.6 | 1248.1 | 1248.6 | 1249.1 |
| 160°   | 1272.3 | 1272.8 | 1273.4 | 1273.9 | 1274.4 | 1274.7 | 1274.8 | 1275.1 | 1275.3 | 1275.6 | 1275.8 |
| 162.5° | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1298.0 | 1298.3 | 1298.5 | 1298.8 | 1299.0 |
| 165°   | 1319.9 | 1319.7 | 1319.4 | 1319.2 | 1318.9 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |
| 167.5° | 1339.7 | 1338.9 | 1338.1 | 1337.4 | 1336.6 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.2 |
| 170°   | 1354.8 | 1354.0 | 1353.2 | 1352.5 | 1351.7 | 1351.3 | 1351.2 | 1350.9 | 1350.6 | 1350.4 | 1350.1 |
| 172.5° | 1365.2 | 1364.4 | 1363.6 | 1362.9 | 1362.1 | 1361.7 | 1361.6 | 1361.3 | 1361.1 | 1360.8 | 1360.6 |
| 175°   | 1373.3 | 1372.5 | 1371.8 | 1371.0 | 1370.3 | 1369.9 | 1369.6 | 1369.1 | 1368.6 | 1368.0 | 1367.5 |
| 177.5° | 1378.0 | 1377.2 | 1376.4 | 1375.7 | 1374.9 | 1374.5 | 1374.2 | 1373.7 | 1373.2 | 1372.7 | 1372.2 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 2076.7 | 2078.2 | 2081.3 | 2096.7 | 2104.3 | 2105.9 | 2099.7 | 2113.6 | 2118.2 | 2113.6 | 2110.5 |
| 5°     | 2175.0 | 2184.2 | 2202.7 | 2222.6 | 2221.1 | 2222.6 | 2231.8 | 2241.1 | 2244.1 | 2231.8 | 2236.4 |
| 7.5°   | 2261.0 | 2279.5 | 2299.4 | 2330.1 | 2330.1 | 2345.5 | 2351.6 | 2359.3 | 2377.8 | 2368.5 | 2365.5 |
| 10°    | 2359.3 | 2383.9 | 2420.8 | 2469.9 | 2471.5 | 2486.8 | 2502.2 | 2526.8 | 2534.4 | 2528.3 | 2531.4 |
| 12.5°  | 2482.2 | 2529.8 | 2532.9 | 2586.7 | 2611.2 | 2614.3 | 2638.9 | 2634.3 | 2649.6 | 2649.6 | 2675.7 |
| 15°    | 2536.0 | 2609.7 | 2651.2 | 2703.4 | 2718.8 | 2700.3 | 2720.3 | 2741.8 | 2743.3 | 2743.3 | 2741.8 |
| 17.5°  | 2632.7 | 2661.9 | 2703.4 | 2731.0 | 2737.2 | 2737.2 | 2738.7 | 2747.9 | 2741.8 | 2729.5 | 2738.7 |
| 20°    | 2652.7 | 2665.0 | 2680.4 | 2677.3 | 2680.4 | 2665.0 | 2649.6 | 2634.3 | 2635.8 | 2628.1 | 2651.2 |
| 22.5°  | 2615.8 | 2612.8 | 2577.4 | 2554.4 | 2554.4 | 2523.7 | 2494.5 | 2480.7 | 2466.9 | 2471.5 | 2479.1 |
| 25°    | 2523.7 | 2476.1 | 2433.1 | 2399.3 | 2391.6 | 2342.4 | 2302.5 | 2290.2 | 2267.2 | 2285.6 | 2288.7 |
| 27.5°  | 2376.2 | 2322.5 | 2253.3 | 2224.2 | 2184.2 | 2164.3 | 2136.6 | 2099.7 | 2052.1 | 2079.8 | 2075.2 |
| 30°    | 2218.0 | 2138.1 | 2081.3 | 2010.7 | 1947.7 | 1943.1 | 1890.8 | 1829.4 | 1804.8 | 1804.8 | 1818.6 |
| 32.5°  | 2041.4 | 1935.4 | 1852.4 | 1752.6 | 1691.2 | 1665.0 | 1602.1 | 1540.6 | 1554.5 | 1508.4 | 1525.3 |
| 35°    | 1835.5 | 1695.8 | 1591.3 | 1494.5 | 1448.5 | 1417.7 | 1336.3 | 1302.5 | 1265.7 | 1244.2 | 1284.1 |
| 37.5°  | 1638.9 | 1477.7 | 1344.0 | 1238.0 | 1221.1 | 1165.8 | 1110.5 | 1089.0 | 1067.5 | 1076.8 | 1075.2 |
| 40°    | 1399.3 | 1256.5 | 1136.7 | 1053.7 | 1024.5 | 998.4  | 961.5  | 935.4  | 921.6  | 929.3  | 930.8  |
| 42.5°  | 1182.7 | 1062.9 | 973.8  | 915.5  | 890.9  | 872.5  | 854.0  | 832.5  | 827.9  | 827.9  | 834.1  |
| 45°    | 1015.3 | 917.0  | 857.1  | 809.5  | 795.7  | 781.8  | 768.0  | 758.8  | 755.7  | 749.6  | 754.2  |
| 47.5°  | 881.7  | 803.3  | 766.5  | 731.1  | 715.8  | 712.7  | 700.4  | 695.8  | 689.7  | 688.1  | 689.7  |
| 50°    | 769.5  | 720.4  | 686.6  | 666.6  | 655.9  | 651.3  | 645.1  | 635.9  | 632.8  | 640.5  | 637.4  |
| 52.5°  | 691.2  | 645.1  | 626.7  | 606.7  | 600.6  | 594.4  | 585.2  | 586.8  | 585.2  | 582.2  | 582.2  |
| 55°    | 612.9  | 583.7  | 565.3  | 549.9  | 548.4  | 542.2  | 534.5  | 531.5  | 529.9  | 526.9  | 531.5  |
| 57.5°  | 549.9  | 526.9  | 510.0  | 496.1  | 490.0  | 490.0  | 482.3  | 476.2  | 476.2  | 474.6  | 476.2  |
| 60°    | 486.9  | 463.9  | 453.1  | 439.3  | 434.7  | 433.2  | 428.6  | 425.5  | 420.9  | 420.9  | 420.9  |
| 62.5°  | 428.6  | 410.1  | 397.8  | 385.5  | 387.1  | 379.4  | 373.3  | 370.2  | 370.2  | 371.7  | 371.7  |
| 65°    | 373.3  | 361.0  | 345.6  | 334.9  | 331.8  | 330.2  | 327.2  | 325.6  | 321.0  | 324.1  | 324.1  |
| 67.5°  | 322.6  | 305.7  | 296.5  | 291.8  | 287.2  | 285.7  | 282.6  | 279.6  | 278.0  | 276.5  | 279.6  |
| 70°    | 271.9  | 258.1  | 250.4  | 247.3  | 242.7  | 241.2  | 239.6  | 235.0  | 236.5  | 238.1  | 239.6  |
| 72.5°  | 225.8  | 213.5  | 212.0  | 202.8  | 202.8  | 202.8  | 196.6  | 199.7  | 198.1  | 195.1  | 198.1  |
| 75°    | 178.2  | 172.0  | 169.0  | 164.4  | 165.9  | 164.4  | 162.8  | 158.2  | 158.2  | 159.7  | 161.3  |
| 77.5°  | 141.3  | 135.2  | 133.6  | 129.0  | 126.0  | 129.0  | 126.0  | 124.4  | 124.4  | 126.0  | 126.0  |
| 80°    | 104.4  | 101.4  | 96.8   | 96.8   | 96.8   | 95.2   | 95.2   | 95.2   | 93.7   | 92.2   | 93.7   |
| 82.5°  | 69.1   | 69.1   | 67.6   | 66.0   | 67.6   | 64.5   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   |
| 85°    | 44.5   | 43.0   | 43.0   | 41.5   | 41.5   | 41.5   | 43.0   | 39.9   | 39.9   | 41.5   | 41.5   |
| 87.5°  | 20.0   | 20.0   | 20.0   | 21.5   | 20.0   | 20.0   | 20.0   | 21.5   | 20.0   | 20.0   | 20.0   |
| 90°    | 40.1   | 39.6   | 39.1   | 38.6   | 38.3   | 38.4   | 38.7   | 39.0   | 39.2   | 39.5   | 39.2   |
| 92.5°  | 36.2   | 36.5   | 36.7   | 37.0   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   |
| 95°    | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.0   | 73.5   | 73.0   | 72.5   | 72.0   | 72.5   |
| 97.5°  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  |
| 100°   | 160.2  | 160.2  | 160.2  | 160.2  | 160.2  | 160.1  | 159.8  | 159.5  | 159.3  | 159.0  | 159.3  |
| 102.5° | 208.1  | 208.3  | 208.6  | 208.9  | 209.0  | 208.9  | 208.6  | 208.3  | 208.1  | 207.8  | 208.1  |
| 105°   | 255.9  | 256.4  | 256.9  | 257.4  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  |
| 107.5° | 307.9  | 308.1  | 308.4  | 308.7  | 308.8  | 308.2  | 306.9  | 305.6  | 304.3  | 303.0  | 304.3  |
| 110°   | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 360.6  | 359.9  | 359.1  | 358.4  | 357.6  | 358.4  |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 414.8  | 414.0  | 413.3  | 412.5  | 412.1  | 411.8  | 411.3  | 410.8  | 410.3  | 409.8  | 410.3  |
| 115°   | 468.7  | 468.5  | 468.2  | 467.9  | 467.8  | 467.4  | 466.7  | 465.9  | 465.2  | 464.4  | 465.2  |
| 117.5° | 521.6  | 520.8  | 520.1  | 519.3  | 518.9  | 518.5  | 517.7  | 517.0  | 516.2  | 515.4  | 516.2  |
| 120°   | 573.5  | 573.5  | 573.5  | 573.5  | 573.5  | 573.1  | 572.3  | 571.6  | 570.8  | 570.0  | 570.8  |
| 122.5° | 628.4  | 627.6  | 626.9  | 626.1  | 625.7  | 625.4  | 624.9  | 624.4  | 623.9  | 623.4  | 623.9  |
| 125°   | 681.8  | 681.0  | 680.3  | 679.5  | 679.1  | 679.0  | 678.7  | 678.5  | 678.2  | 678.0  | 678.2  |
| 127.5° | 733.8  | 732.8  | 731.7  | 730.7  | 730.2  | 729.8  | 729.0  | 728.3  | 727.5  | 726.7  | 727.5  |
| 130°   | 786.6  | 786.1  | 785.6  | 785.1  | 784.8  | 784.3  | 783.2  | 782.2  | 781.1  | 780.1  | 781.1  |
| 132.5° | 839.2  | 837.9  | 836.6  | 835.3  | 834.7  | 834.3  | 833.5  | 832.8  | 832.0  | 831.2  | 832.0  |
| 135°   | 889.0  | 888.7  | 888.5  | 888.2  | 888.1  | 887.7  | 886.9  | 886.2  | 885.4  | 884.6  | 885.4  |
| 137.5° | 937.7  | 937.5  | 937.2  | 936.9  | 936.8  | 936.3  | 935.3  | 934.2  | 933.2  | 932.2  | 933.2  |
| 140°   | 986.8  | 986.8  | 986.8  | 986.8  | 986.8  | 986.3  | 985.2  | 984.2  | 983.1  | 982.1  | 983.1  |
| 142.5° | 1031.1 | 1031.4 | 1031.6 | 1031.9 | 1032.0 | 1031.5 | 1030.5 | 1029.4 | 1028.4 | 1027.4 | 1028.4 |
| 145°   | 1076.4 | 1076.6 | 1076.9 | 1077.2 | 1077.3 | 1076.8 | 1075.8 | 1074.7 | 1073.7 | 1072.7 | 1073.7 |
| 147.5° | 1116.1 | 1116.6 | 1117.1 | 1117.6 | 1117.9 | 1117.4 | 1116.4 | 1115.3 | 1114.3 | 1113.3 | 1114.3 |
| 150°   | 1153.6 | 1154.4 | 1155.1 | 1155.9 | 1156.3 | 1155.9 | 1155.1 | 1154.4 | 1153.6 | 1152.8 | 1153.6 |
| 152.5° | 1190.9 | 1192.0 | 1193.0 | 1194.1 | 1194.6 | 1194.1 | 1193.0 | 1192.0 | 1190.9 | 1189.9 | 1190.9 |
| 155°   | 1221.4 | 1222.7 | 1224.0 | 1225.3 | 1225.9 | 1225.5 | 1224.7 | 1224.0 | 1223.2 | 1222.4 | 1223.2 |
| 157.5° | 1250.9 | 1252.7 | 1254.5 | 1256.3 | 1257.2 | 1256.6 | 1255.3 | 1254.0 | 1252.7 | 1251.4 | 1252.7 |
| 160°   | 1277.4 | 1278.9 | 1280.5 | 1282.0 | 1282.8 | 1282.3 | 1281.2 | 1280.2 | 1279.1 | 1278.1 | 1279.1 |
| 162.5° | 1300.8 | 1302.6 | 1304.5 | 1306.3 | 1307.2 | 1306.6 | 1305.3 | 1304.0 | 1302.7 | 1301.4 | 1302.7 |
| 165°   | 1320.6 | 1322.4 | 1324.2 | 1326.0 | 1326.9 | 1326.3 | 1325.0 | 1323.7 | 1322.4 | 1321.1 | 1322.4 |
| 167.5° | 1338.0 | 1339.8 | 1341.6 | 1343.4 | 1344.3 | 1343.7 | 1342.4 | 1341.1 | 1339.8 | 1338.5 | 1339.8 |
| 170°   | 1351.9 | 1353.7 | 1355.5 | 1357.3 | 1358.2 | 1357.4 | 1355.9 | 1354.4 | 1352.8 | 1351.3 | 1352.8 |
| 172.5° | 1362.4 | 1364.2 | 1366.0 | 1367.8 | 1368.7 | 1367.9 | 1366.4 | 1364.8 | 1363.3 | 1361.7 | 1363.3 |
| 175°   | 1369.3 | 1371.1 | 1373.0 | 1374.8 | 1375.7 | 1374.9 | 1373.4 | 1371.8 | 1370.3 | 1368.7 | 1370.3 |
| 177.5° | 1373.7 | 1375.3 | 1376.8 | 1378.3 | 1379.1 | 1378.3 | 1376.8 | 1375.3 | 1373.7 | 1372.2 | 1373.7 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 2118.2 | 2107.4 | 2098.2 | 2099.7 | 2107.4 | 2101.3 | 2085.9 | 2065.9 | 2058.3 | 2049.1 | 2058.3 |
| 5°     | 2245.7 | 2236.4 | 2218.0 | 2219.6 | 2214.9 | 2208.8 | 2184.2 | 2153.5 | 2153.5 | 2128.9 | 2125.9 |
| 7.5°   | 2371.6 | 2357.8 | 2345.5 | 2342.4 | 2325.5 | 2313.2 | 2291.7 | 2248.7 | 2231.8 | 2202.7 | 2185.8 |
| 10°    | 2512.9 | 2502.2 | 2488.4 | 2471.5 | 2462.2 | 2440.7 | 2405.4 | 2342.4 | 2311.7 | 2271.8 | 2242.6 |
| 12.5°  | 2655.8 | 2654.2 | 2623.5 | 2589.7 | 2588.2 | 2554.4 | 2529.8 | 2445.3 | 2403.9 | 2350.1 | 2281.0 |
| 15°    | 2746.4 | 2738.7 | 2721.8 | 2704.9 | 2709.5 | 2672.7 | 2617.4 | 2517.5 | 2489.9 | 2425.4 | 2351.6 |
| 17.5°  | 2744.9 | 2744.9 | 2740.3 | 2737.2 | 2732.6 | 2721.8 | 2691.1 | 2625.1 | 2580.5 | 2499.1 | 2430.0 |
| 20°    | 2657.3 | 2677.3 | 2681.9 | 2680.4 | 2695.7 | 2703.4 | 2701.9 | 2660.4 | 2625.1 | 2552.9 | 2482.2 |
| 22.5°  | 2482.2 | 2528.3 | 2548.3 | 2560.5 | 2592.8 | 2609.7 | 2649.6 | 2634.3 | 2625.1 | 2571.3 | 2511.4 |
| 25°    | 2319.4 | 2334.8 | 2394.7 | 2397.7 | 2442.3 | 2483.7 | 2523.7 | 2549.8 | 2583.6 | 2563.6 | 2512.9 |
| 27.5°  | 2109.0 | 2144.3 | 2187.3 | 2219.6 | 2228.8 | 2313.2 | 2379.3 | 2428.5 | 2505.3 | 2511.4 | 2494.5 |
| 30°    | 1870.9 | 1887.8 | 1958.4 | 2001.4 | 2050.6 | 2112.0 | 2207.3 | 2291.7 | 2360.9 | 2423.8 | 2445.3 |
| 32.5°  | 1580.6 | 1649.7 | 1691.2 | 1743.4 | 1786.4 | 1895.5 | 2012.2 | 2121.2 | 2201.1 | 2307.1 | 2353.2 |
| 35°    | 1314.8 | 1368.6 | 1439.3 | 1460.8 | 1539.1 | 1631.3 | 1783.3 | 1923.1 | 2044.4 | 2152.0 | 2245.7 |
| 37.5°  | 1095.2 | 1138.2 | 1213.5 | 1247.2 | 1293.3 | 1411.6 | 1539.1 | 1712.7 | 1858.6 | 1990.7 | 2107.4 |
| 40°    | 944.7  | 976.9  | 1033.7 | 1044.5 | 1082.9 | 1190.4 | 1293.3 | 1456.1 | 1649.7 | 1827.9 | 1955.4 |
| 42.5°  | 841.7  | 857.1  | 895.5  | 909.3  | 933.9  | 1006.1 | 1098.3 | 1251.9 | 1431.6 | 1615.9 | 1795.6 |
| 45°    | 768.0  | 778.8  | 801.8  | 814.1  | 844.8  | 877.1  | 952.3  | 1075.2 | 1216.5 | 1402.4 | 1595.9 |
| 47.5°  | 702.0  | 715.8  | 725.0  | 732.7  | 749.6  | 784.9  | 834.1  | 924.7  | 1059.9 | 1230.4 | 1417.7 |
| 50°    | 646.7  | 651.3  | 668.2  | 669.7  | 680.5  | 703.5  | 749.6  | 804.9  | 912.4  | 1050.6 | 1231.9 |
| 52.5°  | 591.4  | 596.0  | 606.7  | 617.5  | 622.1  | 640.5  | 671.2  | 717.3  | 797.2  | 906.3  | 1067.5 |
| 55°    | 536.1  | 542.2  | 553.0  | 560.6  | 565.3  | 580.6  | 599.0  | 643.6  | 706.6  | 783.4  | 915.5  |
| 57.5°  | 480.8  | 494.6  | 497.7  | 502.3  | 510.0  | 526.9  | 543.8  | 569.9  | 619.0  | 689.7  | 786.4  |
| 60°    | 428.6  | 433.2  | 443.9  | 448.5  | 456.2  | 465.4  | 486.9  | 506.9  | 542.2  | 597.5  | 685.1  |
| 62.5°  | 374.8  | 385.5  | 390.1  | 394.8  | 400.9  | 411.7  | 425.5  | 447.0  | 477.7  | 522.2  | 591.4  |
| 65°    | 328.7  | 330.2  | 339.5  | 345.6  | 351.7  | 359.4  | 373.3  | 393.2  | 411.7  | 453.1  | 503.8  |
| 67.5°  | 284.2  | 287.2  | 290.3  | 296.5  | 304.1  | 311.8  | 324.1  | 334.9  | 357.9  | 385.5  | 425.5  |
| 70°    | 241.2  | 241.2  | 248.8  | 253.4  | 251.9  | 261.1  | 270.3  | 282.6  | 299.5  | 325.6  | 357.9  |
| 72.5°  | 202.8  | 201.2  | 207.4  | 208.9  | 212.0  | 218.1  | 224.3  | 236.5  | 245.8  | 265.7  | 290.3  |
| 75°    | 161.3  | 164.4  | 167.4  | 167.4  | 172.0  | 176.6  | 182.8  | 188.9  | 199.7  | 212.0  | 230.4  |
| 77.5°  | 127.5  | 127.5  | 130.6  | 132.1  | 136.7  | 135.2  | 141.3  | 147.5  | 155.1  | 165.9  | 179.7  |
| 80°    | 93.7   | 96.8   | 96.8   | 96.8   | 98.3   | 99.8   | 106.0  | 110.6  | 115.2  | 122.9  | 129.0  |
| 82.5°  | 66.0   | 66.0   | 69.1   | 69.1   | 69.1   | 72.2   | 72.2   | 73.7   | 76.8   | 81.4   | 86.0   |
| 85°    | 41.5   | 41.5   | 41.5   | 43.0   | 41.5   | 43.0   | 46.1   | 44.5   | 46.1   | 49.2   | 49.2   |
| 87.5°  | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 21.5   | 20.0   | 21.5   | 23.0   | 23.0   | 23.0   |
| 90°    | 39.0   | 38.7   | 38.4   | 38.3   | 38.6   | 39.1   | 39.6   | 40.1   | 40.6   | 34.9   | 29.3   |
| 92.5°  | 37.1   | 37.1   | 37.1   | 37.1   | 37.0   | 36.7   | 36.5   | 36.2   | 36.0   | 35.7   | 35.5   |
| 95°    | 73.0   | 73.5   | 74.0   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 73.8   | 73.3   |
| 97.5°  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 115.1  | 114.0  |
| 100°   | 159.5  | 159.8  | 160.1  | 160.2  | 160.2  | 160.2  | 160.2  | 160.2  | 160.2  | 159.4  | 158.6  |
| 102.5° | 208.3  | 208.6  | 208.9  | 209.0  | 208.9  | 208.6  | 208.3  | 208.1  | 207.8  | 206.8  | 205.8  |
| 105°   | 257.7  | 257.7  | 257.7  | 257.7  | 257.4  | 256.9  | 256.4  | 255.9  | 255.4  | 254.9  | 254.4  |
| 107.5° | 305.6  | 306.9  | 308.2  | 308.8  | 308.7  | 308.4  | 308.1  | 307.9  | 307.6  | 307.6  | 307.6  |
| 110°   | 359.1  | 359.9  | 360.6  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  |

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CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 410.8  | 411.3  | 411.8  | 412.1  | 412.5  | 413.3  | 414.0  | 414.8  | 415.6  | 415.9  | 416.1  |
| 115°   | 465.9  | 466.7  | 467.4  | 467.8  | 467.9  | 468.2  | 468.5  | 468.7  | 469.0  | 469.5  | 470.0  |
| 117.5° | 517.0  | 517.7  | 518.5  | 518.9  | 519.3  | 520.1  | 520.8  | 521.6  | 522.4  | 523.7  | 525.0  |
| 120°   | 571.6  | 572.3  | 573.1  | 573.5  | 573.5  | 573.5  | 573.5  | 573.5  | 573.5  | 575.6  | 577.6  |
| 122.5° | 624.4  | 624.9  | 625.4  | 625.7  | 626.1  | 626.9  | 627.6  | 628.4  | 629.2  | 630.5  | 631.8  |
| 125°   | 678.5  | 678.7  | 679.0  | 679.1  | 679.5  | 680.3  | 681.0  | 681.8  | 682.6  | 683.4  | 684.2  |
| 127.5° | 728.3  | 729.0  | 729.8  | 730.2  | 730.7  | 731.7  | 732.8  | 733.8  | 734.8  | 735.8  | 736.9  |
| 130°   | 782.2  | 783.2  | 784.3  | 784.8  | 785.1  | 785.6  | 786.1  | 786.6  | 787.1  | 787.6  | 788.1  |
| 132.5° | 832.8  | 833.5  | 834.3  | 834.7  | 835.3  | 836.6  | 837.9  | 839.2  | 840.5  | 840.2  | 840.0  |
| 135°   | 886.2  | 886.9  | 887.7  | 888.1  | 888.2  | 888.5  | 888.7  | 889.0  | 889.2  | 888.7  | 888.2  |
| 137.5° | 934.2  | 935.3  | 936.3  | 936.8  | 936.9  | 937.2  | 937.5  | 937.7  | 938.0  | 937.5  | 937.0  |
| 140°   | 984.2  | 985.2  | 986.3  | 986.8  | 986.8  | 986.8  | 986.8  | 986.8  | 986.8  | 985.5  | 984.2  |
| 142.5° | 1029.4 | 1030.5 | 1031.5 | 1032.0 | 1031.9 | 1031.6 | 1031.4 | 1031.1 | 1030.9 | 1030.1 | 1029.3 |
| 145°   | 1074.7 | 1075.8 | 1076.8 | 1077.3 | 1077.2 | 1076.9 | 1076.6 | 1076.4 | 1076.1 | 1074.6 | 1073.0 |
| 147.5° | 1115.3 | 1116.4 | 1117.4 | 1117.9 | 1117.6 | 1117.1 | 1116.6 | 1116.1 | 1115.6 | 1114.6 | 1113.6 |
| 150°   | 1154.4 | 1155.1 | 1155.9 | 1156.3 | 1155.9 | 1155.1 | 1154.4 | 1153.6 | 1152.8 | 1151.8 | 1150.7 |
| 152.5° | 1192.0 | 1193.0 | 1194.1 | 1194.6 | 1194.1 | 1193.0 | 1192.0 | 1190.9 | 1189.9 | 1188.6 | 1187.3 |
| 155°   | 1224.0 | 1224.7 | 1225.5 | 1225.9 | 1225.3 | 1224.0 | 1222.7 | 1221.4 | 1220.1 | 1219.3 | 1218.5 |
| 157.5° | 1254.0 | 1255.3 | 1256.6 | 1257.2 | 1256.3 | 1254.5 | 1252.7 | 1250.9 | 1249.1 | 1248.6 | 1248.1 |
| 160°   | 1280.2 | 1281.2 | 1282.3 | 1282.8 | 1282.0 | 1280.5 | 1278.9 | 1277.4 | 1275.8 | 1275.6 | 1275.3 |
| 162.5° | 1304.0 | 1305.3 | 1306.6 | 1307.2 | 1306.3 | 1304.5 | 1302.6 | 1300.8 | 1299.0 | 1298.8 | 1298.5 |
| 165°   | 1323.7 | 1325.0 | 1326.3 | 1326.9 | 1326.0 | 1324.2 | 1322.4 | 1320.6 | 1318.8 | 1318.8 | 1318.8 |
| 167.5° | 1341.1 | 1342.4 | 1343.7 | 1344.3 | 1343.4 | 1341.6 | 1339.8 | 1338.0 | 1336.2 | 1336.2 | 1336.2 |
| 170°   | 1354.4 | 1355.9 | 1357.4 | 1358.2 | 1357.3 | 1355.5 | 1353.7 | 1351.9 | 1350.1 | 1350.4 | 1350.6 |
| 172.5° | 1364.8 | 1366.4 | 1367.9 | 1368.7 | 1367.8 | 1366.0 | 1364.2 | 1362.4 | 1360.6 | 1360.8 | 1361.1 |
| 175°   | 1371.8 | 1373.4 | 1374.9 | 1375.7 | 1374.8 | 1373.0 | 1371.1 | 1369.3 | 1367.5 | 1368.0 | 1368.6 |
| 177.5° | 1375.3 | 1376.8 | 1378.3 | 1379.1 | 1378.3 | 1376.8 | 1375.3 | 1373.7 | 1372.2 | 1372.7 | 1373.2 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 2050.6 | 2042.9 | 2038.3 | 2041.4 | 2032.2 | 2009.1 | 2009.1 | 2016.8 | 2007.6 | 1998.4 | 1984.5 |
| 5°     | 2107.4 | 2092.1 | 2082.8 | 2081.3 | 2059.8 | 2022.9 | 2015.3 | 2007.6 | 1987.6 | 1966.1 | 1943.1 |
| 7.5°   | 2162.7 | 2135.1 | 2119.7 | 2109.0 | 2078.2 | 2030.6 | 2010.7 | 1993.8 | 1961.5 | 1929.2 | 1900.1 |
| 10°    | 2208.8 | 2168.9 | 2150.4 | 2133.5 | 2093.6 | 2033.7 | 2001.4 | 1970.7 | 1929.2 | 1887.8 | 1850.9 |
| 12.5°  | 2245.7 | 2199.6 | 2176.5 | 2152.0 | 2102.8 | 2024.5 | 1984.5 | 1935.4 | 1893.9 | 1838.6 | 1801.8 |
| 15°    | 2307.1 | 2211.9 | 2190.4 | 2167.3 | 2116.6 | 2009.1 | 1960.0 | 1904.7 | 1847.8 | 1774.1 | 1734.2 |
| 17.5°  | 2356.3 | 2228.8 | 2227.2 | 2178.1 | 2112.0 | 2003.0 | 1927.7 | 1855.5 | 1794.1 | 1720.3 | 1657.4 |
| 20°    | 2385.4 | 2254.9 | 2230.3 | 2179.6 | 2096.7 | 1961.5 | 1883.2 | 1803.3 | 1737.2 | 1648.2 | 1585.2 |
| 22.5°  | 2410.0 | 2291.7 | 2227.2 | 2165.8 | 2064.4 | 1947.7 | 1832.5 | 1757.2 | 1666.6 | 1569.8 | 1509.9 |
| 25°    | 2419.2 | 2299.4 | 2231.8 | 2161.2 | 2041.4 | 1907.7 | 1777.2 | 1695.8 | 1594.4 | 1506.8 | 1425.4 |
| 27.5°  | 2420.8 | 2297.9 | 2214.9 | 2141.2 | 2009.1 | 1855.5 | 1721.9 | 1635.9 | 1523.7 | 1422.4 | 1340.9 |
| 30°    | 2405.4 | 2281.0 | 2205.7 | 2125.9 | 1978.4 | 1807.9 | 1654.3 | 1559.1 | 1439.3 | 1337.9 | 1253.4 |
| 32.5°  | 2359.3 | 2247.2 | 2185.8 | 2098.2 | 1938.5 | 1741.8 | 1589.8 | 1483.8 | 1357.8 | 1258.0 | 1176.6 |
| 35°    | 2282.5 | 2205.7 | 2138.1 | 2056.7 | 1886.2 | 1680.4 | 1525.3 | 1400.9 | 1273.4 | 1178.1 | 1101.3 |
| 37.5°  | 2187.3 | 2145.8 | 2082.8 | 2003.0 | 1826.3 | 1625.1 | 1453.1 | 1314.8 | 1187.3 | 1095.2 | 1019.9 |
| 40°    | 2058.3 | 2069.0 | 2007.6 | 1935.4 | 1755.7 | 1549.8 | 1359.4 | 1227.3 | 1107.5 | 1021.5 | 947.7  |
| 42.5°  | 1918.5 | 1963.0 | 1927.7 | 1858.6 | 1677.3 | 1466.9 | 1290.3 | 1144.3 | 1027.6 | 938.5  | 877.1  |
| 45°    | 1768.0 | 1844.8 | 1823.3 | 1772.6 | 1595.9 | 1379.3 | 1192.0 | 1050.6 | 947.7  | 861.7  | 807.9  |
| 47.5°  | 1603.6 | 1712.7 | 1712.7 | 1675.8 | 1505.3 | 1291.8 | 1107.5 | 963.1  | 861.7  | 800.3  | 748.0  |
| 50°    | 1436.2 | 1559.1 | 1579.0 | 1554.5 | 1403.9 | 1192.0 | 1004.6 | 874.0  | 786.4  | 726.5  | 688.1  |
| 52.5°  | 1261.1 | 1403.9 | 1440.8 | 1428.5 | 1296.4 | 1096.7 | 920.1  | 792.6  | 712.7  | 660.5  | 626.7  |
| 55°    | 1093.6 | 1259.5 | 1299.5 | 1304.1 | 1181.2 | 992.3  | 826.4  | 714.3  | 637.4  | 602.1  | 572.9  |
| 57.5°  | 935.4  | 1095.2 | 1139.7 | 1147.4 | 1064.5 | 897.0  | 738.8  | 640.5  | 571.4  | 542.2  | 519.2  |
| 60°    | 800.3  | 933.9  | 992.3  | 1009.2 | 937.0  | 786.4  | 657.4  | 562.2  | 510.0  | 482.3  | 460.8  |
| 62.5°  | 689.7  | 797.2  | 858.6  | 863.2  | 831.0  | 689.7  | 572.9  | 493.1  | 448.5  | 423.9  | 413.2  |
| 65°    | 582.2  | 678.9  | 715.8  | 734.2  | 708.1  | 597.5  | 494.6  | 428.6  | 393.2  | 371.7  | 361.0  |
| 67.5°  | 496.1  | 557.6  | 588.3  | 612.9  | 586.8  | 503.8  | 420.9  | 367.1  | 341.0  | 319.5  | 313.3  |
| 70°    | 407.0  | 457.7  | 480.8  | 505.4  | 482.3  | 419.3  | 359.4  | 310.3  | 287.2  | 270.3  | 262.7  |
| 72.5°  | 325.6  | 365.6  | 387.1  | 402.4  | 388.6  | 336.4  | 287.2  | 253.4  | 236.5  | 224.3  | 219.7  |
| 75°    | 258.1  | 285.7  | 298.0  | 308.7  | 302.6  | 262.7  | 231.9  | 204.3  | 188.9  | 178.2  | 175.1  |
| 77.5°  | 196.6  | 216.6  | 230.4  | 233.5  | 225.8  | 199.7  | 173.6  | 156.7  | 144.4  | 138.2  | 135.2  |
| 80°    | 139.8  | 152.1  | 159.7  | 164.4  | 156.7  | 145.9  | 127.5  | 115.2  | 104.4  | 96.8   | 95.2   |
| 82.5°  | 93.7   | 99.8   | 106.0  | 104.4  | 101.4  | 92.2   | 81.4   | 75.3   | 70.7   | 64.5   | 64.5   |
| 85°    | 53.8   | 55.3   | 58.4   | 59.9   | 58.4   | 52.2   | 46.1   | 43.0   | 39.9   | 35.3   | 35.3   |
| 87.5°  | 23.0   | 24.6   | 24.6   | 26.1   | 23.0   | 23.0   | 20.0   | 16.9   | 16.9   | 15.4   | 13.8   |
| 90°    | 23.6   | 17.9   | 15.1   | 13.6   | 10.5   | 7.4    | 4.3    | 1.2    | 4.3    | 7.4    | 10.5   |
| 92.5°  | 35.2   | 34.9   | 34.8   | 33.8   | 31.7   | 29.6   | 27.6   | 25.5   | 27.6   | 29.6   | 31.7   |
| 95°    | 72.8   | 72.3   | 72.0   | 70.7   | 68.1   | 65.6   | 63.0   | 60.4   | 63.0   | 65.6   | 68.1   |
| 97.5°  | 113.0  | 111.9  | 111.4  | 110.2  | 107.9  | 105.6  | 103.3  | 101.0  | 103.3  | 105.6  | 107.9  |
| 100°   | 157.9  | 157.1  | 156.7  | 155.7  | 153.6  | 151.5  | 149.5  | 147.4  | 149.5  | 151.5  | 153.6  |
| 102.5° | 204.7  | 203.7  | 203.2  | 202.4  | 200.9  | 199.3  | 197.8  | 196.2  | 197.8  | 199.3  | 200.9  |
| 105°   | 253.9  | 253.4  | 253.1  | 252.7  | 251.9  | 251.2  | 250.4  | 249.6  | 250.4  | 251.2  | 251.9  |
| 107.5° | 307.6  | 307.6  | 307.6  | 307.1  | 306.1  | 305.0  | 304.0  | 303.0  | 304.0  | 305.0  | 306.1  |
| 110°   | 361.0  | 361.0  | 361.0  | 360.2  | 358.7  | 357.2  | 355.6  | 354.1  | 355.6  | 357.2  | 358.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.4  | 416.7  | 416.8  | 416.0  | 414.5  | 412.9  | 411.4  | 409.8  | 411.4  | 412.9  | 414.5  |
| 115°   | 470.5  | 471.0  | 471.3  | 470.5  | 469.0  | 467.5  | 465.9  | 464.4  | 465.9  | 467.5  | 469.0  |
| 117.5° | 526.3  | 527.6  | 528.2  | 527.2  | 525.1  | 523.0  | 521.0  | 518.9  | 521.0  | 523.0  | 525.1  |
| 120°   | 579.7  | 581.8  | 582.8  | 581.8  | 579.7  | 577.6  | 575.6  | 573.5  | 575.6  | 577.6  | 579.7  |
| 122.5° | 633.1  | 634.4  | 635.0  | 633.7  | 631.1  | 628.6  | 626.0  | 623.4  | 626.0  | 628.6  | 631.1  |
| 125°   | 684.9  | 685.7  | 686.1  | 684.9  | 682.6  | 680.3  | 677.9  | 675.6  | 677.9  | 680.3  | 682.6  |
| 127.5° | 737.9  | 739.0  | 739.5  | 738.1  | 735.2  | 732.4  | 729.5  | 726.7  | 729.5  | 732.4  | 735.2  |
| 130°   | 788.6  | 789.1  | 789.4  | 787.7  | 784.4  | 781.0  | 777.7  | 774.3  | 777.7  | 781.0  | 784.4  |
| 132.5° | 839.7  | 839.4  | 839.3  | 838.0  | 835.4  | 832.9  | 830.3  | 827.7  | 830.3  | 832.9  | 835.4  |
| 135°   | 887.7  | 887.2  | 886.9  | 885.5  | 882.7  | 879.8  | 877.0  | 874.2  | 877.0  | 879.8  | 882.7  |
| 137.5° | 936.5  | 936.0  | 935.7  | 934.5  | 932.2  | 929.9  | 927.5  | 925.2  | 927.5  | 929.9  | 932.2  |
| 140°   | 982.9  | 981.6  | 981.0  | 979.8  | 977.5  | 975.2  | 972.8  | 970.5  | 972.8  | 975.2  | 977.5  |
| 142.5° | 1028.6 | 1027.8 | 1027.4 | 1026.2 | 1023.9 | 1021.6 | 1019.2 | 1016.9 | 1019.2 | 1021.6 | 1023.9 |
| 145°   | 1071.5 | 1070.0 | 1069.2 | 1068.3 | 1066.5 | 1064.7 | 1062.9 | 1061.1 | 1062.9 | 1064.7 | 1066.5 |
| 147.5° | 1112.5 | 1111.5 | 1111.0 | 1109.8 | 1107.5 | 1105.2 | 1102.8 | 1100.5 | 1102.8 | 1105.2 | 1107.5 |
| 150°   | 1149.7 | 1148.6 | 1148.1 | 1147.3 | 1145.8 | 1144.3 | 1142.7 | 1141.2 | 1142.7 | 1144.3 | 1145.8 |
| 152.5° | 1186.0 | 1184.7 | 1184.1 | 1183.3 | 1181.8 | 1180.2 | 1178.7 | 1177.1 | 1178.7 | 1180.2 | 1181.8 |
| 155°   | 1217.8 | 1217.0 | 1216.6 | 1216.2 | 1215.4 | 1214.7 | 1213.9 | 1213.1 | 1213.9 | 1214.7 | 1215.4 |
| 157.5° | 1247.6 | 1247.1 | 1246.8 | 1246.5 | 1246.0 | 1245.5 | 1245.0 | 1244.5 | 1245.0 | 1245.5 | 1246.0 |
| 160°   | 1275.1 | 1274.8 | 1274.7 | 1274.4 | 1273.9 | 1273.4 | 1272.8 | 1272.3 | 1272.8 | 1273.4 | 1273.9 |
| 162.5° | 1298.3 | 1298.0 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 | 1297.9 |
| 165°   | 1318.8 | 1318.8 | 1318.8 | 1318.9 | 1319.2 | 1319.4 | 1319.7 | 1319.9 | 1319.7 | 1319.4 | 1319.2 |
| 167.5° | 1336.2 | 1336.2 | 1336.2 | 1336.6 | 1337.4 | 1338.1 | 1338.9 | 1339.7 | 1338.9 | 1338.1 | 1337.4 |
| 170°   | 1350.9 | 1351.2 | 1351.3 | 1351.7 | 1352.5 | 1353.2 | 1354.0 | 1354.8 | 1354.0 | 1353.2 | 1352.5 |
| 172.5° | 1361.3 | 1361.6 | 1361.7 | 1362.1 | 1362.9 | 1363.6 | 1364.4 | 1365.2 | 1364.4 | 1363.6 | 1362.9 |
| 175°   | 1369.1 | 1369.6 | 1369.9 | 1370.3 | 1371.0 | 1371.8 | 1372.5 | 1373.3 | 1372.5 | 1371.8 | 1371.0 |
| 177.5° | 1373.7 | 1374.2 | 1374.5 | 1374.9 | 1375.7 | 1376.4 | 1377.2 | 1378.0 | 1377.2 | 1376.4 | 1375.7 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 1976.9 | 1984.5 | 1983.0 | 1967.6 | 1950.7 | 1936.9 | 1910.8 | 1913.9 | 1904.7 | 1906.2 | 1915.4 |
| 5°     | 1927.7 | 1927.7 | 1921.6 | 1900.1 | 1872.4 | 1857.1 | 1827.9 | 1820.2 | 1801.8 | 1800.2 | 1798.7 |
| 7.5°   | 1875.5 | 1867.8 | 1860.1 | 1829.4 | 1795.6 | 1771.0 | 1731.1 | 1721.9 | 1703.4 | 1691.2 | 1685.0 |
| 10°    | 1814.0 | 1803.3 | 1787.9 | 1752.6 | 1711.1 | 1680.4 | 1638.9 | 1626.6 | 1591.3 | 1576.0 | 1566.7 |
| 12.5°  | 1746.5 | 1740.3 | 1715.7 | 1686.6 | 1619.0 | 1585.2 | 1525.3 | 1537.6 | 1502.2 | 1471.5 | 1466.9 |
| 15°    | 1678.9 | 1655.8 | 1642.0 | 1594.4 | 1513.0 | 1497.6 | 1450.0 | 1425.4 | 1393.2 | 1368.6 | 1368.6 |
| 17.5°  | 1612.8 | 1577.5 | 1546.8 | 1496.1 | 1436.2 | 1393.2 | 1357.8 | 1345.6 | 1305.6 | 1281.0 | 1276.4 |
| 20°    | 1525.3 | 1485.3 | 1477.7 | 1405.5 | 1364.0 | 1316.4 | 1282.6 | 1251.9 | 1222.7 | 1211.9 | 1204.2 |
| 22.5°  | 1442.3 | 1396.2 | 1384.0 | 1322.5 | 1281.0 | 1233.4 | 1199.6 | 1178.1 | 1156.6 | 1148.9 | 1135.1 |
| 25°    | 1353.2 | 1325.6 | 1307.2 | 1241.1 | 1195.0 | 1150.5 | 1127.4 | 1112.1 | 1092.1 | 1090.6 | 1081.4 |
| 27.5°  | 1267.2 | 1241.1 | 1222.7 | 1159.7 | 1125.9 | 1084.4 | 1066.0 | 1049.1 | 1038.4 | 1033.7 | 1029.1 |
| 30°    | 1193.5 | 1164.3 | 1142.8 | 1096.7 | 1055.2 | 1021.5 | 1006.1 | 995.3  | 989.2  | 981.5  | 980.0  |
| 32.5°  | 1112.1 | 1095.2 | 1066.0 | 1030.7 | 998.4  | 966.2  | 956.9  | 949.3  | 940.0  | 937.0  | 935.4  |
| 35°    | 1043.0 | 1019.9 | 1001.5 | 961.5  | 947.7  | 920.1  | 909.3  | 903.2  | 890.9  | 887.8  | 884.7  |
| 37.5°  | 975.4  | 953.9  | 933.9  | 909.3  | 883.2  | 867.9  | 861.7  | 852.5  | 846.3  | 847.9  | 844.8  |
| 40°    | 907.8  | 890.9  | 875.5  | 849.4  | 834.1  | 826.4  | 814.1  | 804.9  | 801.8  | 803.3  | 801.8  |
| 42.5°  | 841.7  | 826.4  | 817.2  | 797.2  | 781.8  | 774.2  | 766.5  | 757.3  | 761.9  | 761.9  | 766.5  |
| 45°    | 781.8  | 768.0  | 761.9  | 746.5  | 737.3  | 725.0  | 717.3  | 715.8  | 721.9  | 720.4  | 720.4  |
| 47.5°  | 720.4  | 715.8  | 708.1  | 694.3  | 682.0  | 674.3  | 672.8  | 672.8  | 678.9  | 682.0  | 680.5  |
| 50°    | 672.8  | 663.6  | 654.3  | 643.6  | 634.4  | 631.3  | 626.7  | 629.8  | 635.9  | 635.9  | 639.0  |
| 52.5°  | 612.9  | 606.7  | 603.7  | 594.4  | 588.3  | 588.3  | 588.3  | 589.8  | 594.4  | 599.0  | 597.5  |
| 55°    | 560.6  | 556.0  | 553.0  | 548.4  | 540.7  | 542.2  | 540.7  | 543.8  | 548.4  | 553.0  | 556.0  |
| 57.5°  | 505.4  | 503.8  | 500.7  | 493.1  | 493.1  | 491.5  | 496.1  | 497.7  | 505.4  | 508.4  | 513.0  |
| 60°    | 456.2  | 451.6  | 451.6  | 445.4  | 445.4  | 445.4  | 450.1  | 454.7  | 460.8  | 462.3  | 465.4  |
| 62.5°  | 404.0  | 404.0  | 402.4  | 397.8  | 397.8  | 402.4  | 404.0  | 410.1  | 413.2  | 413.2  | 417.8  |
| 65°    | 354.8  | 353.3  | 351.7  | 353.3  | 354.8  | 354.8  | 359.4  | 362.5  | 365.6  | 367.1  | 368.6  |
| 67.5°  | 305.7  | 304.1  | 307.2  | 305.7  | 308.7  | 314.9  | 313.3  | 318.0  | 322.6  | 322.6  | 324.1  |
| 70°    | 259.6  | 262.7  | 261.1  | 264.2  | 262.7  | 265.7  | 270.3  | 271.9  | 271.9  | 273.4  | 278.0  |
| 72.5°  | 216.6  | 216.6  | 216.6  | 215.0  | 216.6  | 219.7  | 222.7  | 224.3  | 227.3  | 228.9  | 233.5  |
| 75°    | 175.1  | 175.1  | 172.0  | 175.1  | 175.1  | 178.2  | 181.3  | 181.3  | 181.3  | 184.3  | 188.9  |
| 77.5°  | 132.1  | 133.6  | 132.1  | 135.2  | 135.2  | 136.7  | 139.8  | 138.2  | 141.3  | 142.9  | 144.4  |
| 80°    | 96.8   | 95.2   | 95.2   | 95.2   | 96.8   | 96.8   | 99.8   | 101.4  | 101.4  | 106.0  | 102.9  |
| 82.5°  | 61.4   | 63.0   | 61.4   | 63.0   | 63.0   | 64.5   | 63.0   | 64.5   | 66.0   | 69.1   | 67.6   |
| 85°    | 35.3   | 33.8   | 33.8   | 35.3   | 33.8   | 33.8   | 35.3   | 33.8   | 35.3   | 33.8   | 35.3   |
| 87.5°  | 13.8   | 12.3   | 12.3   | 12.3   | 12.3   | 10.8   | 10.8   | 9.2    | 9.2    | 9.2    | 7.7    |
| 90°    | 13.6   | 15.1   | 17.9   | 23.6   | 29.3   | 34.9   | 40.6   | 40.1   | 39.6   | 39.1   | 38.6   |
| 92.5°  | 33.8   | 34.8   | 34.9   | 35.2   | 35.5   | 35.7   | 36.0   | 36.2   | 36.5   | 36.7   | 37.0   |
| 95°    | 70.7   | 72.0   | 72.3   | 72.8   | 73.3   | 73.8   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   |
| 97.5°  | 110.2  | 111.4  | 111.9  | 113.0  | 114.0  | 115.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  |
| 100°   | 155.7  | 156.7  | 157.1  | 157.9  | 158.6  | 159.4  | 160.2  | 160.2  | 160.2  | 160.2  | 160.2  |
| 102.5° | 202.4  | 203.2  | 203.7  | 204.7  | 205.8  | 206.8  | 207.8  | 208.1  | 208.3  | 208.6  | 208.9  |
| 105°   | 252.7  | 253.1  | 253.4  | 253.9  | 254.4  | 254.9  | 255.4  | 255.9  | 256.4  | 256.9  | 257.4  |
| 107.5° | 307.1  | 307.6  | 307.6  | 307.6  | 307.6  | 307.6  | 307.6  | 307.9  | 308.1  | 308.4  | 308.7  |
| 110°   | 360.2  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.0  | 416.8  | 416.7  | 416.4  | 416.1  | 415.9  | 415.6  | 414.8  | 414.0  | 413.3  | 412.5  |
| 115°   | 470.5  | 471.3  | 471.0  | 470.5  | 470.0  | 469.5  | 469.0  | 468.7  | 468.5  | 468.2  | 467.9  |
| 117.5° | 527.2  | 528.2  | 527.6  | 526.3  | 525.0  | 523.7  | 522.4  | 521.6  | 520.8  | 520.1  | 519.3  |
| 120°   | 581.8  | 582.8  | 581.8  | 579.7  | 577.6  | 575.6  | 573.5  | 573.5  | 573.5  | 573.5  | 573.5  |
| 122.5° | 633.7  | 635.0  | 634.4  | 633.1  | 631.8  | 630.5  | 629.2  | 628.4  | 627.6  | 626.9  | 626.1  |
| 125°   | 684.9  | 686.1  | 685.7  | 684.9  | 684.2  | 683.4  | 682.6  | 681.8  | 681.0  | 680.3  | 679.5  |
| 127.5° | 738.1  | 739.5  | 739.0  | 737.9  | 736.9  | 735.8  | 734.8  | 733.8  | 732.8  | 731.7  | 730.7  |
| 130°   | 787.7  | 789.4  | 789.1  | 788.6  | 788.1  | 787.6  | 787.1  | 786.6  | 786.1  | 785.6  | 785.1  |
| 132.5° | 838.0  | 839.3  | 839.4  | 839.7  | 840.0  | 840.2  | 840.5  | 839.2  | 837.9  | 836.6  | 835.3  |
| 135°   | 885.5  | 886.9  | 887.2  | 887.7  | 888.2  | 888.7  | 889.2  | 889.0  | 888.7  | 888.5  | 888.2  |
| 137.5° | 934.5  | 935.7  | 936.0  | 936.5  | 937.0  | 937.5  | 938.0  | 937.7  | 937.5  | 937.2  | 936.9  |
| 140°   | 979.8  | 981.0  | 981.6  | 982.9  | 984.2  | 985.5  | 986.8  | 986.8  | 986.8  | 986.8  | 986.8  |
| 142.5° | 1026.2 | 1027.4 | 1027.8 | 1028.6 | 1029.3 | 1030.1 | 1030.9 | 1031.1 | 1031.4 | 1031.6 | 1031.9 |
| 145°   | 1068.3 | 1069.2 | 1070.0 | 1071.5 | 1073.0 | 1074.6 | 1076.1 | 1076.4 | 1076.6 | 1076.9 | 1077.2 |
| 147.5° | 1109.8 | 1111.0 | 1111.5 | 1112.5 | 1113.6 | 1114.6 | 1115.6 | 1116.1 | 1116.6 | 1117.1 | 1117.6 |
| 150°   | 1147.3 | 1148.1 | 1148.6 | 1149.7 | 1150.7 | 1151.8 | 1152.8 | 1153.6 | 1154.4 | 1155.1 | 1155.9 |
| 152.5° | 1183.3 | 1184.1 | 1184.7 | 1186.0 | 1187.3 | 1188.6 | 1189.9 | 1190.9 | 1192.0 | 1193.0 | 1194.1 |
| 155°   | 1216.2 | 1216.6 | 1217.0 | 1217.8 | 1218.5 | 1219.3 | 1220.1 | 1221.4 | 1222.7 | 1224.0 | 1225.3 |
| 157.5° | 1246.5 | 1246.8 | 1247.1 | 1247.6 | 1248.1 | 1248.6 | 1249.1 | 1250.9 | 1252.7 | 1254.5 | 1256.3 |
| 160°   | 1274.4 | 1274.7 | 1274.8 | 1275.1 | 1275.3 | 1275.6 | 1275.8 | 1277.4 | 1278.9 | 1280.5 | 1282.0 |
| 162.5° | 1297.9 | 1297.9 | 1298.0 | 1298.3 | 1298.5 | 1298.8 | 1299.0 | 1300.8 | 1302.6 | 1304.5 | 1306.3 |
| 165°   | 1318.9 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1320.6 | 1322.4 | 1324.2 | 1326.0 |
| 167.5° | 1336.6 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1338.0 | 1339.8 | 1341.6 | 1343.4 |
| 170°   | 1351.7 | 1351.3 | 1351.2 | 1350.9 | 1350.6 | 1350.4 | 1350.1 | 1351.9 | 1353.7 | 1355.5 | 1357.3 |
| 172.5° | 1362.1 | 1361.7 | 1361.6 | 1361.3 | 1361.1 | 1360.8 | 1360.6 | 1362.4 | 1364.2 | 1366.0 | 1367.8 |
| 175°   | 1370.3 | 1369.9 | 1369.6 | 1369.1 | 1368.6 | 1368.0 | 1367.5 | 1369.3 | 1371.1 | 1373.0 | 1374.8 |
| 177.5° | 1374.9 | 1374.5 | 1374.2 | 1373.7 | 1373.2 | 1372.7 | 1372.2 | 1373.7 | 1375.3 | 1376.8 | 1378.3 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 1904.7 | 1909.3 | 1898.5 | 1895.5 | 1898.5 | 1887.8 | 1890.8 | 1893.9 | 1893.9 | 1898.5 | 1901.6 |
| 5°     | 1794.1 | 1787.9 | 1777.2 | 1774.1 | 1771.0 | 1775.6 | 1772.6 | 1777.2 | 1778.7 | 1789.5 | 1791.0 |
| 7.5°   | 1685.0 | 1675.8 | 1666.6 | 1657.4 | 1654.3 | 1646.6 | 1654.3 | 1654.3 | 1665.0 | 1662.0 | 1669.7 |
| 10°    | 1556.0 | 1554.5 | 1542.2 | 1537.6 | 1531.4 | 1519.1 | 1536.0 | 1531.4 | 1539.1 | 1552.9 | 1556.0 |
| 12.5°  | 1460.8 | 1443.9 | 1451.5 | 1430.0 | 1437.7 | 1425.4 | 1427.0 | 1427.0 | 1439.3 | 1440.8 | 1437.7 |
| 15°    | 1370.1 | 1356.3 | 1336.3 | 1327.1 | 1322.5 | 1316.4 | 1336.3 | 1337.9 | 1328.7 | 1350.2 | 1342.5 |
| 17.5°  | 1278.0 | 1278.0 | 1259.5 | 1254.9 | 1242.6 | 1248.8 | 1245.7 | 1247.2 | 1244.2 | 1259.5 | 1267.2 |
| 20°    | 1198.1 | 1190.4 | 1184.3 | 1185.8 | 1170.4 | 1167.4 | 1164.3 | 1167.4 | 1178.1 | 1188.9 | 1192.0 |
| 22.5°  | 1133.6 | 1129.0 | 1113.6 | 1116.7 | 1104.4 | 1109.0 | 1105.9 | 1113.6 | 1115.2 | 1115.2 | 1125.9 |
| 25°    | 1072.1 | 1066.0 | 1067.5 | 1061.4 | 1056.8 | 1056.8 | 1052.2 | 1056.8 | 1062.9 | 1066.0 | 1067.5 |
| 27.5°  | 1026.1 | 1021.5 | 1013.8 | 1009.2 | 1012.2 | 1004.6 | 1010.7 | 1015.3 | 1015.3 | 1012.2 | 1015.3 |
| 30°    | 970.8  | 973.8  | 973.8  | 958.5  | 964.6  | 961.5  | 966.2  | 969.2  | 969.2  | 970.8  | 967.7  |
| 32.5°  | 933.9  | 924.7  | 923.1  | 921.6  | 921.6  | 915.5  | 915.5  | 920.1  | 921.6  | 923.1  | 927.8  |
| 35°    | 884.7  | 884.7  | 877.1  | 881.7  | 875.5  | 877.1  | 875.5  | 877.1  | 880.1  | 875.5  | 880.1  |
| 37.5°  | 840.2  | 841.7  | 838.7  | 841.7  | 843.3  | 840.2  | 837.1  | 843.3  | 840.2  | 840.2  | 837.1  |
| 40°    | 801.8  | 800.3  | 801.8  | 801.8  | 801.8  | 803.3  | 800.3  | 800.3  | 800.3  | 797.2  | 794.1  |
| 42.5°  | 769.5  | 760.3  | 763.4  | 764.9  | 760.3  | 760.3  | 761.9  | 760.3  | 764.9  | 755.7  | 755.7  |
| 45°    | 723.5  | 720.4  | 721.9  | 721.9  | 725.0  | 720.4  | 723.5  | 725.0  | 720.4  | 718.9  | 715.8  |
| 47.5°  | 682.0  | 685.1  | 682.0  | 685.1  | 685.1  | 688.1  | 682.0  | 683.5  | 685.1  | 678.9  | 674.3  |
| 50°    | 640.5  | 640.5  | 645.1  | 643.6  | 645.1  | 642.1  | 642.1  | 640.5  | 642.1  | 639.0  | 634.4  |
| 52.5°  | 602.1  | 597.5  | 605.2  | 603.7  | 602.1  | 600.6  | 599.0  | 600.6  | 597.5  | 594.4  | 594.4  |
| 55°    | 554.5  | 554.5  | 559.1  | 560.6  | 560.6  | 557.6  | 554.5  | 556.0  | 554.5  | 553.0  | 551.4  |
| 57.5°  | 516.1  | 510.0  | 513.0  | 514.6  | 514.6  | 510.0  | 513.0  | 510.0  | 510.0  | 511.5  | 506.9  |
| 60°    | 467.0  | 467.0  | 463.9  | 468.5  | 468.5  | 465.4  | 465.4  | 467.0  | 463.9  | 462.3  | 460.8  |
| 62.5°  | 414.7  | 416.3  | 420.9  | 422.4  | 423.9  | 420.9  | 417.8  | 419.3  | 419.3  | 414.7  | 416.3  |
| 65°    | 370.2  | 373.3  | 379.4  | 377.9  | 374.8  | 376.3  | 373.3  | 374.8  | 370.2  | 371.7  | 367.1  |
| 67.5°  | 327.2  | 325.6  | 327.2  | 327.2  | 330.2  | 328.7  | 325.6  | 325.6  | 324.1  | 328.7  | 324.1  |
| 70°    | 281.1  | 281.1  | 281.1  | 281.1  | 282.6  | 284.2  | 281.1  | 278.0  | 279.6  | 276.5  | 274.9  |
| 72.5°  | 233.5  | 235.0  | 233.5  | 236.5  | 231.9  | 235.0  | 235.0  | 233.5  | 231.9  | 231.9  | 231.9  |
| 75°    | 188.9  | 192.0  | 187.4  | 188.9  | 187.4  | 190.5  | 188.9  | 188.9  | 185.9  | 184.3  | 185.9  |
| 77.5°  | 144.4  | 145.9  | 142.9  | 144.4  | 142.9  | 144.4  | 144.4  | 142.9  | 142.9  | 142.9  | 142.9  |
| 80°    | 102.9  | 104.4  | 102.9  | 101.4  | 99.8   | 102.9  | 99.8   | 101.4  | 102.9  | 101.4  | 104.4  |
| 82.5°  | 66.0   | 66.0   | 64.5   | 66.0   | 63.0   | 63.0   | 64.5   | 64.5   | 63.0   | 66.0   | 63.0   |
| 85°    | 32.3   | 32.3   | 35.3   | 32.3   | 30.7   | 30.7   | 30.7   | 32.3   | 30.7   | 33.8   | 32.3   |
| 87.5°  | 7.7    | 6.1    | 7.7    | 7.7    | 6.1    | 6.1    | 7.7    | 6.1    | 7.7    | 9.2    | 6.1    |
| 90°    | 38.3   | 38.4   | 38.7   | 39.0   | 39.2   | 39.5   | 39.2   | 39.0   | 38.7   | 38.4   | 38.3   |
| 92.5°  | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   |
| 95°    | 74.3   | 74.0   | 73.5   | 73.0   | 72.5   | 72.0   | 72.5   | 73.0   | 73.5   | 74.0   | 74.3   |
| 97.5°  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  |
| 100°   | 160.2  | 160.1  | 159.8  | 159.5  | 159.3  | 159.0  | 159.3  | 159.5  | 159.8  | 160.1  | 160.2  |
| 102.5° | 209.0  | 208.9  | 208.6  | 208.3  | 208.1  | 207.8  | 208.1  | 208.3  | 208.6  | 208.9  | 209.0  |
| 105°   | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  | 257.7  |
| 107.5° | 308.8  | 308.2  | 306.9  | 305.6  | 304.3  | 303.0  | 304.3  | 305.6  | 306.9  | 308.2  | 308.8  |
| 110°   | 361.0  | 360.6  | 359.9  | 359.1  | 358.4  | 357.6  | 358.4  | 359.1  | 359.9  | 360.6  | 361.0  |



TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 412.1  | 411.8  | 411.3  | 410.8  | 410.3  | 409.8  | 410.3  | 410.8  | 411.3  | 411.8  | 412.1  |
| 115°   | 467.8  | 467.4  | 466.7  | 465.9  | 465.2  | 464.4  | 465.2  | 465.9  | 466.7  | 467.4  | 467.8  |
| 117.5° | 518.9  | 518.5  | 517.7  | 517.0  | 516.2  | 515.4  | 516.2  | 517.0  | 517.7  | 518.5  | 518.9  |
| 120°   | 573.5  | 573.1  | 572.3  | 571.6  | 570.8  | 570.0  | 570.8  | 571.6  | 572.3  | 573.1  | 573.5  |
| 122.5° | 625.7  | 625.4  | 624.9  | 624.4  | 623.9  | 623.4  | 623.9  | 624.4  | 624.9  | 625.4  | 625.7  |
| 125°   | 679.1  | 679.0  | 678.7  | 678.5  | 678.2  | 678.0  | 678.2  | 678.5  | 678.7  | 679.0  | 679.1  |
| 127.5° | 730.2  | 729.8  | 729.0  | 728.3  | 727.5  | 726.7  | 727.5  | 728.3  | 729.0  | 729.8  | 730.2  |
| 130°   | 784.8  | 784.3  | 783.2  | 782.2  | 781.1  | 780.1  | 781.1  | 782.2  | 783.2  | 784.3  | 784.8  |
| 132.5° | 834.7  | 834.3  | 833.5  | 832.8  | 832.0  | 831.2  | 832.0  | 832.8  | 833.5  | 834.3  | 834.7  |
| 135°   | 888.1  | 887.7  | 886.9  | 886.2  | 885.4  | 884.6  | 885.4  | 886.2  | 886.9  | 887.7  | 888.1  |
| 137.5° | 936.8  | 936.3  | 935.3  | 934.2  | 933.2  | 932.2  | 933.2  | 934.2  | 935.3  | 936.3  | 936.8  |
| 140°   | 986.8  | 986.3  | 985.2  | 984.2  | 983.1  | 982.1  | 983.1  | 984.2  | 985.2  | 986.3  | 986.8  |
| 142.5° | 1032.0 | 1031.5 | 1030.5 | 1029.4 | 1028.4 | 1027.4 | 1028.4 | 1029.4 | 1030.5 | 1031.5 | 1032.0 |
| 145°   | 1077.3 | 1076.8 | 1075.8 | 1074.7 | 1073.7 | 1072.7 | 1073.7 | 1074.7 | 1075.8 | 1076.8 | 1077.3 |
| 147.5° | 1117.9 | 1117.4 | 1116.4 | 1115.3 | 1114.3 | 1113.3 | 1114.3 | 1115.3 | 1116.4 | 1117.4 | 1117.9 |
| 150°   | 1156.3 | 1155.9 | 1155.1 | 1154.4 | 1153.6 | 1152.8 | 1153.6 | 1154.4 | 1155.1 | 1155.9 | 1156.3 |
| 152.5° | 1194.6 | 1194.1 | 1193.0 | 1192.0 | 1190.9 | 1189.9 | 1190.9 | 1192.0 | 1193.0 | 1194.1 | 1194.6 |
| 155°   | 1225.9 | 1225.5 | 1224.7 | 1224.0 | 1223.2 | 1222.4 | 1223.2 | 1224.0 | 1224.7 | 1225.5 | 1225.9 |
| 157.5° | 1257.2 | 1256.6 | 1255.3 | 1254.0 | 1252.7 | 1251.4 | 1252.7 | 1254.0 | 1255.3 | 1256.6 | 1257.2 |
| 160°   | 1282.8 | 1282.3 | 1281.2 | 1280.2 | 1279.1 | 1278.1 | 1279.1 | 1280.2 | 1281.2 | 1282.3 | 1282.8 |
| 162.5° | 1307.2 | 1306.6 | 1305.3 | 1304.0 | 1302.7 | 1301.4 | 1302.7 | 1304.0 | 1305.3 | 1306.6 | 1307.2 |
| 165°   | 1326.9 | 1326.3 | 1325.0 | 1323.7 | 1322.4 | 1321.1 | 1322.4 | 1323.7 | 1325.0 | 1326.3 | 1326.9 |
| 167.5° | 1344.3 | 1343.7 | 1342.4 | 1341.1 | 1339.8 | 1338.5 | 1339.8 | 1341.1 | 1342.4 | 1343.7 | 1344.3 |
| 170°   | 1358.2 | 1357.4 | 1355.9 | 1354.4 | 1352.8 | 1351.3 | 1352.8 | 1354.4 | 1355.9 | 1357.4 | 1358.2 |
| 172.5° | 1368.7 | 1367.9 | 1366.4 | 1364.8 | 1363.3 | 1361.7 | 1363.3 | 1364.8 | 1366.4 | 1367.9 | 1368.7 |
| 175°   | 1375.7 | 1374.9 | 1373.4 | 1371.8 | 1370.3 | 1368.7 | 1370.3 | 1371.8 | 1373.4 | 1374.9 | 1375.7 |
| 177.5° | 1379.1 | 1378.3 | 1376.8 | 1375.3 | 1373.7 | 1372.2 | 1373.7 | 1375.3 | 1376.8 | 1378.3 | 1379.1 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 1897.0 | 1909.3 | 1904.7 | 1887.8 | 1907.7 | 1907.7 | 1921.6 | 1921.6 | 1938.5 | 1944.6 | 1953.8 |
| 5°     | 1789.5 | 1798.7 | 1806.4 | 1798.7 | 1812.5 | 1834.0 | 1846.3 | 1857.1 | 1880.1 | 1889.3 | 1903.1 |
| 7.5°   | 1674.3 | 1691.2 | 1698.8 | 1698.8 | 1721.9 | 1746.5 | 1771.0 | 1786.4 | 1818.6 | 1830.9 | 1844.8 |
| 10°    | 1562.1 | 1582.1 | 1597.5 | 1595.9 | 1634.3 | 1649.7 | 1680.4 | 1715.7 | 1748.0 | 1766.4 | 1786.4 |
| 12.5°  | 1443.9 | 1454.6 | 1476.1 | 1506.8 | 1516.1 | 1543.7 | 1579.0 | 1623.6 | 1681.9 | 1698.8 | 1728.0 |
| 15°    | 1345.6 | 1374.7 | 1391.6 | 1405.5 | 1427.0 | 1453.1 | 1491.5 | 1534.5 | 1592.9 | 1629.7 | 1660.4 |
| 17.5°  | 1262.6 | 1301.0 | 1311.8 | 1308.7 | 1336.3 | 1376.3 | 1420.8 | 1453.1 | 1505.3 | 1549.8 | 1579.0 |
| 20°    | 1195.0 | 1210.4 | 1228.8 | 1236.5 | 1258.0 | 1301.0 | 1344.0 | 1380.9 | 1423.9 | 1459.2 | 1493.0 |
| 22.5°  | 1127.4 | 1139.7 | 1155.1 | 1168.9 | 1185.8 | 1210.4 | 1251.9 | 1297.9 | 1339.4 | 1373.2 | 1411.6 |
| 25°    | 1072.1 | 1079.8 | 1093.6 | 1104.4 | 1122.8 | 1139.7 | 1168.9 | 1219.6 | 1268.8 | 1288.7 | 1322.5 |
| 27.5°  | 1018.4 | 1024.5 | 1033.7 | 1046.0 | 1055.2 | 1072.1 | 1098.3 | 1139.7 | 1190.4 | 1210.4 | 1256.5 |
| 30°    | 970.8  | 975.4  | 984.6  | 990.7  | 995.3  | 1015.3 | 1035.3 | 1067.5 | 1105.9 | 1133.6 | 1167.4 |
| 32.5°  | 926.2  | 930.8  | 940.0  | 941.6  | 947.7  | 958.5  | 976.9  | 1006.1 | 1039.9 | 1062.9 | 1092.1 |
| 35°    | 877.1  | 880.1  | 889.4  | 892.4  | 897.0  | 906.3  | 920.1  | 941.6  | 972.3  | 989.2  | 1015.3 |
| 37.5°  | 838.7  | 837.1  | 843.3  | 847.9  | 854.0  | 858.6  | 863.2  | 884.7  | 907.8  | 923.1  | 943.1  |
| 40°    | 797.2  | 794.1  | 795.7  | 801.8  | 804.9  | 811.0  | 811.0  | 832.5  | 847.9  | 860.2  | 875.5  |
| 42.5°  | 755.7  | 754.2  | 751.1  | 754.2  | 757.3  | 758.8  | 760.3  | 775.7  | 791.1  | 801.8  | 818.7  |
| 45°    | 714.3  | 712.7  | 709.6  | 711.2  | 711.2  | 714.3  | 718.9  | 725.0  | 735.8  | 745.0  | 754.2  |
| 47.5°  | 675.8  | 672.8  | 668.2  | 666.6  | 669.7  | 669.7  | 669.7  | 675.8  | 686.6  | 689.7  | 698.9  |
| 50°    | 635.9  | 631.3  | 625.2  | 622.1  | 622.1  | 620.6  | 623.6  | 625.2  | 634.4  | 637.4  | 645.1  |
| 52.5°  | 592.9  | 589.8  | 583.7  | 577.5  | 579.1  | 576.0  | 577.5  | 579.1  | 582.2  | 586.8  | 591.4  |
| 55°    | 549.9  | 543.8  | 539.1  | 537.6  | 533.0  | 533.0  | 528.4  | 534.5  | 533.0  | 534.5  | 540.7  |
| 57.5°  | 508.4  | 502.3  | 494.6  | 491.5  | 486.9  | 485.4  | 482.3  | 480.8  | 482.3  | 486.9  | 491.5  |
| 60°    | 459.3  | 456.2  | 451.6  | 447.0  | 443.9  | 439.3  | 436.2  | 436.2  | 434.7  | 434.7  | 436.2  |
| 62.5°  | 411.7  | 410.1  | 404.0  | 402.4  | 399.4  | 396.3  | 391.7  | 388.6  | 388.6  | 391.7  | 393.2  |
| 65°    | 365.6  | 364.0  | 359.4  | 357.9  | 350.2  | 347.1  | 345.6  | 344.1  | 341.0  | 341.0  | 341.0  |
| 67.5°  | 322.6  | 318.0  | 318.0  | 310.3  | 304.1  | 301.1  | 298.0  | 296.5  | 296.5  | 296.5  | 298.0  |
| 70°    | 274.9  | 274.9  | 270.3  | 265.7  | 259.6  | 261.1  | 256.5  | 251.9  | 251.9  | 248.8  | 250.4  |
| 72.5°  | 228.9  | 227.3  | 222.7  | 221.2  | 216.6  | 212.0  | 208.9  | 212.0  | 207.4  | 205.8  | 207.4  |
| 75°    | 184.3  | 182.8  | 179.7  | 176.6  | 178.2  | 173.6  | 169.0  | 167.4  | 167.4  | 164.4  | 164.4  |
| 77.5°  | 141.3  | 144.4  | 138.2  | 136.7  | 133.6  | 130.6  | 129.0  | 127.5  | 127.5  | 127.5  | 130.6  |
| 80°    | 98.3   | 99.8   | 99.8   | 96.8   | 98.3   | 93.7   | 93.7   | 93.7   | 89.1   | 90.6   | 92.2   |
| 82.5°  | 63.0   | 63.0   | 61.4   | 63.0   | 61.4   | 61.4   | 59.9   | 59.9   | 58.4   | 58.4   | 59.9   |
| 85°    | 35.3   | 33.8   | 32.3   | 35.3   | 33.8   | 33.8   | 32.3   | 32.3   | 32.3   | 32.3   | 32.3   |
| 87.5°  | 7.7    | 9.2    | 9.2    | 9.2    | 9.2    | 10.8   | 10.8   | 10.8   | 12.3   | 12.3   | 12.3   |
| 90°    | 38.6   | 39.1   | 39.6   | 40.1   | 40.6   | 34.9   | 29.3   | 23.6   | 17.9   | 15.1   | 13.6   |
| 92.5°  | 37.0   | 36.7   | 36.5   | 36.2   | 36.0   | 35.7   | 35.5   | 35.2   | 34.9   | 34.8   | 33.8   |
| 95°    | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 73.8   | 73.3   | 72.8   | 72.3   | 72.0   | 70.7   |
| 97.5°  | 116.1  | 116.1  | 116.1  | 116.1  | 116.1  | 115.1  | 114.0  | 113.0  | 111.9  | 111.4  | 110.2  |
| 100°   | 160.2  | 160.2  | 160.2  | 160.2  | 160.2  | 159.4  | 158.6  | 157.9  | 157.1  | 156.7  | 155.7  |
| 102.5° | 208.9  | 208.6  | 208.3  | 208.1  | 207.8  | 206.8  | 205.8  | 204.7  | 203.7  | 203.2  | 202.4  |
| 105°   | 257.4  | 256.9  | 256.4  | 255.9  | 255.4  | 254.9  | 254.4  | 253.9  | 253.4  | 253.1  | 252.7  |
| 107.5° | 308.7  | 308.4  | 308.1  | 307.9  | 307.6  | 307.6  | 307.6  | 307.6  | 307.6  | 307.6  | 307.1  |
| 110°   | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 361.0  | 360.2  |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 412.5  | 413.3  | 414.0  | 414.8  | 415.6  | 415.9  | 416.1  | 416.4  | 416.7  | 416.8  | 416.0  |
| 115°   | 467.9  | 468.2  | 468.5  | 468.7  | 469.0  | 469.5  | 470.0  | 470.5  | 471.0  | 471.3  | 470.5  |
| 117.5° | 519.3  | 520.1  | 520.8  | 521.6  | 522.4  | 523.7  | 525.0  | 526.3  | 527.6  | 528.2  | 527.2  |
| 120°   | 573.5  | 573.5  | 573.5  | 573.5  | 573.5  | 575.6  | 577.6  | 579.7  | 581.8  | 582.8  | 581.8  |
| 122.5° | 626.1  | 626.9  | 627.6  | 628.4  | 629.2  | 630.5  | 631.8  | 633.1  | 634.4  | 635.0  | 633.7  |
| 125°   | 679.5  | 680.3  | 681.0  | 681.8  | 682.6  | 683.4  | 684.2  | 684.9  | 685.7  | 686.1  | 684.9  |
| 127.5° | 730.7  | 731.7  | 732.8  | 733.8  | 734.8  | 735.8  | 736.9  | 737.9  | 739.0  | 739.5  | 738.1  |
| 130°   | 785.1  | 785.6  | 786.1  | 786.6  | 787.1  | 787.6  | 788.1  | 788.6  | 789.1  | 789.4  | 787.7  |
| 132.5° | 835.3  | 836.6  | 837.9  | 839.2  | 840.5  | 840.2  | 840.0  | 839.7  | 839.4  | 839.3  | 838.0  |
| 135°   | 888.2  | 888.5  | 888.7  | 889.0  | 889.2  | 888.7  | 888.2  | 887.7  | 887.2  | 886.9  | 885.5  |
| 137.5° | 936.9  | 937.2  | 937.5  | 937.7  | 938.0  | 937.5  | 937.0  | 936.5  | 936.0  | 935.7  | 934.5  |
| 140°   | 986.8  | 986.8  | 986.8  | 986.8  | 986.8  | 985.5  | 984.2  | 982.9  | 981.6  | 981.0  | 979.8  |
| 142.5° | 1031.9 | 1031.6 | 1031.4 | 1031.1 | 1030.9 | 1030.1 | 1029.3 | 1028.6 | 1027.8 | 1027.4 | 1026.2 |
| 145°   | 1077.2 | 1076.9 | 1076.6 | 1076.4 | 1076.1 | 1074.6 | 1073.0 | 1071.5 | 1070.0 | 1069.2 | 1068.3 |
| 147.5° | 1117.6 | 1117.1 | 1116.6 | 1116.1 | 1115.6 | 1114.6 | 1113.6 | 1112.5 | 1111.5 | 1111.0 | 1109.8 |
| 150°   | 1155.9 | 1155.1 | 1154.4 | 1153.6 | 1152.8 | 1151.8 | 1150.7 | 1149.7 | 1148.6 | 1148.1 | 1147.3 |
| 152.5° | 1194.1 | 1193.0 | 1192.0 | 1190.9 | 1189.9 | 1188.6 | 1187.3 | 1186.0 | 1184.7 | 1184.1 | 1183.3 |
| 155°   | 1225.3 | 1224.0 | 1222.7 | 1221.4 | 1220.1 | 1219.3 | 1218.5 | 1217.8 | 1217.0 | 1216.6 | 1216.2 |
| 157.5° | 1256.3 | 1254.5 | 1252.7 | 1250.9 | 1249.1 | 1248.6 | 1248.1 | 1247.6 | 1247.1 | 1246.8 | 1246.5 |
| 160°   | 1282.0 | 1280.5 | 1278.9 | 1277.4 | 1275.8 | 1275.6 | 1275.3 | 1275.1 | 1274.8 | 1274.7 | 1274.4 |
| 162.5° | 1306.3 | 1304.5 | 1302.6 | 1300.8 | 1299.0 | 1298.8 | 1298.5 | 1298.3 | 1298.0 | 1297.9 | 1297.9 |
| 165°   | 1326.0 | 1324.2 | 1322.4 | 1320.6 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.9 |
| 167.5° | 1343.4 | 1341.6 | 1339.8 | 1338.0 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.2 | 1336.6 |
| 170°   | 1357.3 | 1355.5 | 1353.7 | 1351.9 | 1350.1 | 1350.4 | 1350.6 | 1350.9 | 1351.2 | 1351.3 | 1351.7 |
| 172.5° | 1367.8 | 1366.0 | 1364.2 | 1362.4 | 1360.6 | 1360.8 | 1361.1 | 1361.3 | 1361.6 | 1361.7 | 1362.1 |
| 175°   | 1374.8 | 1373.0 | 1371.1 | 1369.3 | 1367.5 | 1368.0 | 1368.6 | 1369.1 | 1369.6 | 1369.9 | 1370.3 |
| 177.5° | 1378.3 | 1376.8 | 1375.3 | 1373.7 | 1372.2 | 1372.7 | 1373.2 | 1373.7 | 1374.2 | 1374.5 | 1374.9 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1998.4 | 1998.4 | 1998.4 | 1998.4 |
| 2.5°   | 1961.5 | 1961.5 | 1984.5 | 2009.1 |
| 5°     | 1918.5 | 1929.2 | 1966.1 | 1999.9 |
| 7.5°   | 1877.0 | 1895.5 | 1941.5 | 1984.5 |
| 10°    | 1826.3 | 1850.9 | 1907.7 | 1958.4 |
| 12.5°  | 1777.2 | 1800.2 | 1866.3 | 1923.1 |
| 15°    | 1708.1 | 1737.2 | 1807.9 | 1878.6 |
| 17.5°  | 1638.9 | 1668.1 | 1754.1 | 1837.1 |
| 20°    | 1557.5 | 1595.9 | 1692.7 | 1803.3 |
| 22.5°  | 1482.3 | 1529.9 | 1637.4 | 1726.5 |
| 25°    | 1399.3 | 1473.0 | 1572.9 | 1688.1 |
| 27.5°  | 1325.6 | 1399.3 | 1500.7 | 1617.4 |
| 30°    | 1242.6 | 1317.9 | 1422.4 | 1529.9 |
| 32.5°  | 1162.8 | 1231.9 | 1333.3 | 1465.4 |
| 35°    | 1079.8 | 1145.9 | 1244.2 | 1377.8 |
| 37.5°  | 1004.6 | 1069.1 | 1176.6 | 1299.5 |
| 40°    | 930.8  | 998.4  | 1090.6 | 1213.5 |
| 42.5°  | 861.7  | 921.6  | 1004.6 | 1127.4 |
| 45°    | 798.7  | 841.7  | 918.5  | 1033.7 |
| 47.5°  | 732.7  | 771.1  | 841.7  | 956.9  |
| 50°    | 671.2  | 703.5  | 764.9  | 872.5  |
| 52.5°  | 611.3  | 639.0  | 695.8  | 781.8  |
| 55°    | 557.6  | 583.7  | 625.2  | 709.6  |
| 57.5°  | 502.3  | 522.2  | 562.2  | 629.8  |
| 60°    | 448.5  | 467.0  | 499.2  | 554.5  |
| 62.5°  | 394.8  | 410.1  | 440.8  | 485.4  |
| 65°    | 347.1  | 359.4  | 382.5  | 420.9  |
| 67.5°  | 301.1  | 308.7  | 327.2  | 357.9  |
| 70°    | 256.5  | 262.7  | 278.0  | 302.6  |
| 72.5°  | 208.9  | 215.0  | 231.9  | 248.8  |
| 75°    | 169.0  | 170.5  | 182.8  | 196.6  |
| 77.5°  | 132.1  | 130.6  | 139.8  | 150.5  |
| 80°    | 90.6   | 95.2   | 102.9  | 107.5  |
| 82.5°  | 61.4   | 63.0   | 66.0   | 69.1   |
| 85°    | 33.8   | 35.3   | 35.3   | 39.9   |
| 87.5°  | 13.8   | 15.4   | 15.4   | 16.9   |
| 90°    | 10.5   | 7.4    | 4.3    | 1.2    |
| 92.5°  | 31.7   | 29.6   | 27.6   | 25.5   |
| 95°    | 68.1   | 65.6   | 63.0   | 60.4   |
| 97.5°  | 107.9  | 105.6  | 103.3  | 101.0  |
| 100°   | 153.6  | 151.5  | 149.5  | 147.4  |
| 102.5° | 200.9  | 199.3  | 197.8  | 196.2  |
| 105°   | 251.9  | 251.2  | 250.4  | 249.6  |
| 107.5° | 306.1  | 305.0  | 304.0  | 303.0  |
| 110°   | 358.7  | 357.2  | 355.6  | 354.1  |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 414.5  | 412.9  | 411.4  | 409.8  |
| 115°   | 469.0  | 467.5  | 465.9  | 464.4  |
| 117.5° | 525.1  | 523.0  | 521.0  | 518.9  |
| 120°   | 579.7  | 577.6  | 575.6  | 573.5  |
| 122.5° | 631.1  | 628.6  | 626.0  | 623.4  |
| 125°   | 682.6  | 680.3  | 677.9  | 675.6  |
| 127.5° | 735.2  | 732.4  | 729.5  | 726.7  |
| 130°   | 784.4  | 781.0  | 777.7  | 774.3  |
| 132.5° | 835.4  | 832.9  | 830.3  | 827.7  |
| 135°   | 882.7  | 879.8  | 877.0  | 874.2  |
| 137.5° | 932.2  | 929.9  | 927.5  | 925.2  |
| 140°   | 977.5  | 975.2  | 972.8  | 970.5  |
| 142.5° | 1023.9 | 1021.6 | 1019.2 | 1016.9 |
| 145°   | 1066.5 | 1064.7 | 1062.9 | 1061.1 |
| 147.5° | 1107.5 | 1105.2 | 1102.8 | 1100.5 |
| 150°   | 1145.8 | 1144.3 | 1142.7 | 1141.2 |
| 152.5° | 1181.8 | 1180.2 | 1178.7 | 1177.1 |
| 155°   | 1215.4 | 1214.7 | 1213.9 | 1213.1 |
| 157.5° | 1246.0 | 1245.5 | 1245.0 | 1244.5 |
| 160°   | 1273.9 | 1273.4 | 1272.8 | 1272.3 |
| 162.5° | 1297.9 | 1297.9 | 1297.9 | 1297.9 |
| 165°   | 1319.2 | 1319.4 | 1319.7 | 1319.9 |
| 167.5° | 1337.4 | 1338.1 | 1338.9 | 1339.7 |
| 170°   | 1352.5 | 1353.2 | 1354.0 | 1354.8 |
| 172.5° | 1362.9 | 1363.6 | 1364.4 | 1365.2 |
| 175°   | 1371.0 | 1371.8 | 1372.5 | 1373.3 |
| 177.5° | 1375.7 | 1376.4 | 1377.2 | 1378.0 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

TEST NUMBER: P997809

CATALOG NUMBER: SA2XXDIP-B1005D1080UB30-4F0-XX-W2A-A1

**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 | 18.16            | 19.02 | 19.09 | 19.96 | 21.19 | 15.65          | 16.51 | 16.59 | 17.46 | 18.68 |
|                 | 3H   | 18.97            | 19.74 | 19.92 | 20.69 | 21.94 | 17.00          | 17.76 | 17.94 | 18.72 | 19.97 |
|                 | 4H   | 19.14            | 19.86 | 20.10 | 20.82 | 22.08 | 17.46          | 18.18 | 18.42 | 19.14 | 20.40 |
|                 | 6H   | 19.18            | 19.85 | 20.16 | 20.82 | 22.09 | 17.77          | 18.43 | 18.74 | 19.40 | 20.67 |
|                 | 8H   | 19.16            | 19.80 | 20.14 | 20.78 | 22.05 | 17.85          | 18.48 | 18.83 | 19.47 | 20.73 |
|                 | 12H  | 19.13            | 19.73 | 20.11 | 20.70 | 22.00 | 17.89          | 18.49 | 18.87 | 19.47 | 20.76 |
| 4H              | 2H   | 18.20            | 18.92 | 19.17 | 19.88 | 21.14 | 16.10          | 16.82 | 17.06 | 17.78 | 19.04 |
|                 | 3H   | 19.18            | 19.78 | 20.16 | 20.77 | 22.04 | 17.56          | 18.16 | 18.53 | 19.15 | 20.42 |
|                 | 4H   | 19.46            | 20.01 | 20.44 | 20.99 | 22.29 | 18.09          | 18.64 | 19.08 | 19.63 | 20.92 |
|                 | 6H   | 19.59            | 20.06 | 20.58 | 21.07 | 22.36 | 18.47          | 18.94 | 19.47 | 19.95 | 21.25 |
|                 | 8H   | 19.59            | 20.03 | 20.58 | 21.03 | 22.33 | 18.58          | 19.02 | 19.58 | 20.02 | 21.33 |
|                 | 12H  | 19.55            | 19.95 | 20.56 | 20.96 | 22.28 | 18.64          | 19.04 | 19.65 | 20.05 | 21.37 |
| 8H              | 4H   | 19.47            | 19.91 | 20.46 | 20.91 | 22.21 | 18.23          | 18.68 | 19.23 | 19.68 | 20.98 |
|                 | 6H   | 19.64            | 20.01 | 20.67 | 21.05 | 22.36 | 18.67          | 19.03 | 19.69 | 20.08 | 21.38 |
|                 | 8H   | 19.67            | 19.99 | 20.70 | 21.02 | 22.35 | 18.82          | 19.14 | 19.85 | 20.17 | 21.49 |
|                 | 12H  | 19.66            | 19.94 | 20.69 | 20.96 | 22.33 | 18.91          | 19.19 | 19.94 | 20.22 | 21.59 |
| 12H             | 4H   | 19.42            | 19.82 | 20.44 | 20.84 | 22.15 | 18.21          | 18.61 | 19.22 | 19.62 | 20.94 |
|                 | 6H   | 19.62            | 19.94 | 20.65 | 20.97 | 22.30 | 18.67          | 18.99 | 19.70 | 20.02 | 21.34 |
|                 | 8H   | 19.66            | 19.94 | 20.69 | 20.96 | 22.33 | 18.83          | 19.11 | 19.86 | 20.13 | 21.50 |