

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: P997914

Luminaire Tested: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997914  
REPORT IS A COMBINATION OF REPORTS P983651 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K  
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

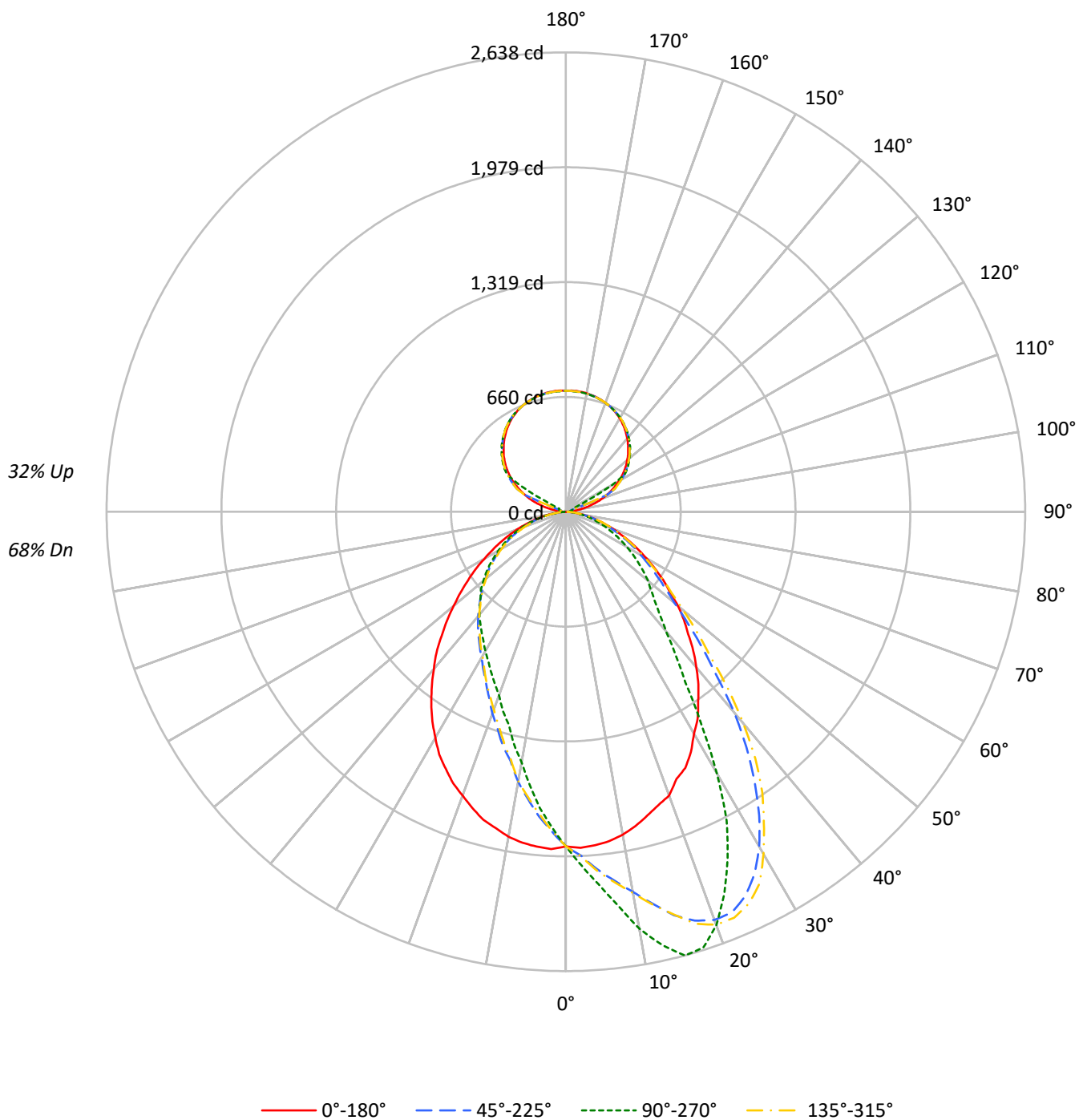
Lumens per Lamp: N/A  
Luminaire Lumens: 6277.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 76.7  
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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### Luminous Intensity Polar Plot



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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 68 |    |    |
| 1   | 102 | 98  | 94  | 91  | 96  | 93  | 90  | 87  | 83 | 80 | 78 | 73 | 72 | 70 | 65 | 64 | 62 | 58 |    |    |
| 2   | 94  | 87  | 81  | 75  | 88  | 82  | 77  | 72  | 73 | 69 | 66 | 65 | 62 | 59 | 58 | 56 | 54 | 50 |    |    |
| 3   | 86  | 77  | 69  | 64  | 81  | 73  | 66  | 61  | 65 | 60 | 56 | 58 | 54 | 51 | 52 | 49 | 46 | 43 |    |    |
| 4   | 79  | 68  | 61  | 55  | 74  | 65  | 58  | 53  | 58 | 53 | 48 | 52 | 48 | 44 | 47 | 43 | 40 | 37 |    |    |
| 5   | 73  | 61  | 53  | 47  | 69  | 58  | 51  | 46  | 53 | 47 | 42 | 47 | 43 | 39 | 43 | 39 | 36 | 33 |    |    |
| 6   | 67  | 55  | 47  | 42  | 64  | 53  | 46  | 40  | 48 | 42 | 37 | 43 | 38 | 35 | 39 | 35 | 32 | 29 |    |    |
| 7   | 63  | 50  | 42  | 37  | 59  | 48  | 41  | 36  | 44 | 38 | 33 | 40 | 35 | 31 | 36 | 32 | 29 | 26 |    |    |
| 8   | 58  | 46  | 38  | 33  | 55  | 44  | 37  | 32  | 40 | 34 | 30 | 36 | 31 | 28 | 33 | 29 | 26 | 24 |    |    |
| 9   | 55  | 42  | 35  | 30  | 52  | 40  | 34  | 29  | 37 | 31 | 27 | 34 | 29 | 25 | 31 | 27 | 24 | 22 |    |    |
| 10  | 51  | 39  | 32  | 27  | 48  | 37  | 31  | 26  | 34 | 29 | 25 | 31 | 26 | 23 | 28 | 24 | 22 | 20 |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 30413 | 30413 | 30413 | 30413 |
| 5°  | 30486 | 32427 | 30603 | 25799 |
| 10° | 30132 | 35400 | 30321 | 21271 |
| 15° | 29401 | 37339 | 29809 | 17916 |
| 20° | 28943 | 35058 | 28943 | 15573 |
| 25° | 28020 | 30119 | 28148 | 13925 |
| 30° | 26503 | 23676 | 27007 | 12614 |
| 35° | 25158 | 16372 | 25578 | 11542 |
| 40° | 23613 | 12361 | 23882 | 10686 |
| 45° | 21707 | 10158 | 22061 | 9762  |
| 50° | 20059 | 8915  | 20095 | 8937  |
| 55° | 18181 | 7596  | 18298 | 8040  |
| 60° | 16177 | 6345  | 16401 | 7017  |
| 65° | 14383 | 5161  | 14646 | 5992  |
| 70° | 12598 | 4049  | 12919 | 4833  |
| 75° | 10573 | 2940  | 10987 | 3505  |
| 80° | 8255  | 1863  | 8846  | 2079  |
| 85° | 5424  | 938   | 5848  | 694   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 31439 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.0  | 2.9       |
| 10°-20°   | 532.6  | 8.5       |
| 20°-30°   | 773.0  | 12.3      |
| 30°-40°   | 814.9  | 13.0      |
| 40°-50°   | 721.1  | 11.5      |
| 50°-60°   | 575.8  | 9.2       |
| 60°-70°   | 391.1  | 6.2       |
| 70°-80°   | 200.1  | 3.2       |
| 80°-90°   | 48.5   | 0.8       |
| 90°-100°  | 22.9   | 0.4       |
| 100°-110° | 85.4   | 1.4       |
| 110°-120° | 226.5  | 3.6       |
| 120°-130° | 375.7  | 6.0       |
| 130°-140° | 399.0  | 6.4       |
| 140°-150° | 370.9  | 5.9       |
| 150°-160° | 298.2  | 4.7       |
| 160°-170° | 192.1  | 3.1       |
| 170°-180° | 66.1   | 1.1       |
| 0°-30°    | 1488.7 | 23.7      |
| 0°-40°    | 2303.6 | 36.7      |
| 0°-60°    | 3600.5 | 57.4      |
| 0°-90°    | 4240.2 | 67.6      |
| 90°-120°  | 334.8  | 5.3       |
| 90°-150°  | 1480.4 | 23.6      |
| 90°-180°  | 2037.0 | 32.5      |
| 0°-180°   | 6277.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1921 | 1921 | 1921 | 1921 | 1921 |      |
| 5°   | 1923 | 2146 | 1930 | 1707 | 1923 | 182  |
| 15°  | 1806 | 2638 | 1831 | 1266 | 1806 | 510  |
| 25°  | 1623 | 2198 | 1630 | 1016 | 1623 | 742  |
| 35°  | 1325 | 1196 | 1347 | 843  | 1325 | 829  |
| 45°  | 994  | 721  | 1010 | 693  | 994  | 771  |
| 55°  | 682  | 506  | 687  | 536  | 682  | 609  |
| 65°  | 405  | 312  | 412  | 362  | 405  | 402  |
| 75°  | 189  | 154  | 196  | 183  | 189  | 203  |
| 85°  | 38   | 40   | 41   | 30   | 38   | 45   |
| 90°  | 0    | 14   | 0    | 14   | 0    | 4    |
| 95°  | 33   | 22   | 33   | 22   | 33   | 39   |
| 105° | 153  | 38   | 153  | 38   | 153  | 163  |
| 115° | 289  | 41   | 289  | 41   | 289  | 285  |
| 125° | 409  | 430  | 409  | 430  | 409  | 365  |
| 135° | 506  | 522  | 506  | 522  | 506  | 391  |
| 145° | 587  | 596  | 587  | 596  | 587  | 367  |
| 155° | 646  | 646  | 646  | 646  | 646  | 298  |
| 165° | 681  | 679  | 681  | 679  | 681  | 192  |
| 175° | 696  | 692  | 696  | 692  | 696  | 66   |
| 180° | 695  | 695  | 695  | 695  | 695  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1931.6 | 1936.1 | 1943.5 | 1944.9 | 1959.7 | 1971.5 | 1984.8 | 1984.8 | 1989.2 | 1987.8 | 1976.0 |
| 5°     | 1922.8 | 1936.1 | 1955.3 | 1971.5 | 1998.1 | 2009.9 | 2027.6 | 2040.9 | 2052.7 | 2061.6 | 2060.1 |
| 7.5°   | 1908.0 | 1931.6 | 1959.7 | 1990.7 | 2026.2 | 2046.8 | 2071.9 | 2095.6 | 2111.8 | 2126.6 | 2136.9 |
| 10°    | 1882.9 | 1922.8 | 1961.2 | 2002.5 | 2048.3 | 2076.4 | 2105.9 | 2136.9 | 2162.0 | 2190.1 | 2216.7 |
| 12.5°  | 1848.9 | 1906.5 | 1953.8 | 2008.4 | 2064.6 | 2095.6 | 2142.8 | 2166.5 | 2215.2 | 2286.1 | 2305.3 |
| 15°    | 1806.1 | 1884.4 | 1928.7 | 1998.1 | 2071.9 | 2097.1 | 2162.0 | 2200.4 | 2300.8 | 2345.2 | 2398.3 |
| 17.5°  | 1766.2 | 1853.4 | 1912.5 | 1992.2 | 2064.6 | 2113.3 | 2176.8 | 2255.1 | 2339.2 | 2402.7 | 2461.8 |
| 20°    | 1733.8 | 1817.9 | 1888.8 | 1977.4 | 2069.0 | 2131.0 | 2197.5 | 2292.0 | 2383.5 | 2448.5 | 2494.3 |
| 22.5°  | 1659.9 | 1767.7 | 1850.4 | 1949.4 | 2060.1 | 2145.8 | 2209.3 | 2312.7 | 2411.6 | 2451.5 | 2491.4 |
| 25°    | 1623.0 | 1716.0 | 1812.0 | 1924.3 | 2054.2 | 2156.1 | 2210.8 | 2326.0 | 2413.1 | 2427.9 | 2436.7 |
| 27.5°  | 1555.1 | 1659.9 | 1772.2 | 1900.6 | 2052.7 | 2138.4 | 2207.8 | 2312.7 | 2382.1 | 2371.7 | 2345.2 |
| 30°    | 1470.9 | 1599.4 | 1723.4 | 1862.2 | 2032.1 | 2125.1 | 2190.1 | 2286.1 | 2321.5 | 2268.4 | 2221.1 |
| 32.5°  | 1408.9 | 1530.0 | 1667.3 | 1828.3 | 2008.4 | 2097.1 | 2160.6 | 2235.9 | 2243.3 | 2147.3 | 2067.5 |
| 35°    | 1324.7 | 1459.1 | 1614.1 | 1784.0 | 1968.6 | 2048.3 | 2107.4 | 2153.2 | 2117.7 | 1983.3 | 1888.8 |
| 37.5°  | 1249.4 | 1382.3 | 1547.7 | 1720.5 | 1913.9 | 1992.2 | 2039.5 | 2046.8 | 1959.7 | 1841.6 | 1702.7 |
| 40°    | 1166.7 | 1304.0 | 1476.8 | 1658.4 | 1853.4 | 1921.3 | 1950.8 | 1928.7 | 1803.2 | 1665.8 | 1504.9 |
| 42.5°  | 1084.0 | 1219.8 | 1405.9 | 1592.0 | 1776.6 | 1834.2 | 1846.0 | 1785.4 | 1631.9 | 1470.9 | 1284.8 |
| 45°    | 993.9  | 1135.7 | 1321.7 | 1509.3 | 1688.0 | 1720.5 | 1721.9 | 1634.8 | 1453.2 | 1284.8 | 1112.0 |
| 47.5°  | 920.0  | 1051.5 | 1236.1 | 1423.6 | 1574.3 | 1596.4 | 1587.6 | 1487.1 | 1289.2 | 1100.2 | 949.6  |
| 50°    | 838.8  | 964.3  | 1147.5 | 1332.1 | 1460.6 | 1466.5 | 1444.3 | 1301.1 | 1107.6 | 934.8  | 815.2  |
| 52.5°  | 751.7  | 878.7  | 1047.0 | 1224.3 | 1339.5 | 1330.6 | 1287.8 | 1134.2 | 952.5  | 809.3  | 717.7  |
| 55°    | 682.3  | 794.5  | 952.5  | 1125.3 | 1206.5 | 1181.4 | 1134.2 | 977.6  | 834.4  | 713.3  | 633.5  |
| 57.5°  | 605.5  | 704.4  | 859.5  | 1010.1 | 1057.4 | 1033.8 | 986.5  | 840.3  | 707.4  | 615.8  | 562.7  |
| 60°    | 533.1  | 623.2  | 759.1  | 884.6  | 921.5  | 896.4  | 841.8  | 710.3  | 614.3  | 537.6  | 497.7  |
| 62.5°  | 466.7  | 544.9  | 658.7  | 773.8  | 788.6  | 763.5  | 716.2  | 609.9  | 527.2  | 466.7  | 437.1  |
| 65°    | 404.6  | 478.5  | 570.0  | 657.2  | 670.5  | 643.9  | 595.1  | 518.4  | 448.9  | 410.5  | 382.5  |
| 67.5°  | 344.1  | 403.2  | 484.4  | 547.9  | 555.3  | 530.2  | 490.3  | 428.3  | 385.4  | 344.1  | 323.4  |
| 70°    | 290.9  | 335.2  | 398.7  | 450.4  | 453.4  | 429.7  | 409.1  | 353.0  | 320.5  | 290.9  | 274.7  |
| 72.5°  | 239.2  | 270.3  | 319.0  | 357.4  | 358.9  | 344.1  | 324.9  | 289.5  | 261.4  | 240.7  | 224.5  |
| 75°    | 189.0  | 215.6  | 245.1  | 279.1  | 277.6  | 265.8  | 251.1  | 228.9  | 205.3  | 192.0  | 184.6  |
| 77.5°  | 144.7  | 161.0  | 184.6  | 206.8  | 206.8  | 200.8  | 192.0  | 175.7  | 161.0  | 147.7  | 140.3  |
| 80°    | 103.4  | 113.7  | 132.9  | 140.3  | 143.2  | 141.8  | 134.4  | 122.6  | 116.7  | 106.3  | 103.4  |
| 82.5°  | 66.5   | 73.8   | 82.7   | 90.1   | 94.5   | 91.6   | 90.1   | 84.2   | 75.3   | 72.4   | 69.4   |
| 85°    | 38.4   | 41.4   | 45.8   | 50.2   | 51.7   | 50.2   | 53.2   | 48.7   | 44.3   | 44.3   | 42.8   |
| 87.5°  | 16.2   | 17.7   | 20.7   | 20.7   | 22.2   | 22.2   | 20.7   | 22.2   | 22.2   | 20.7   | 19.2   |
| 90°    | 0.5    | 1.7    | 2.9    | 4.2    | 5.4    | 6.0    | 6.5    | 7.4    | 8.3    | 9.2    | 10.1   |
| 92.5°  | 12.6   | 12.2   | 11.7   | 11.3   | 10.8   | 10.6   | 10.8   | 11.1   | 11.4   | 11.8   | 12.1   |
| 95°    | 32.7   | 29.0   | 25.3   | 21.6   | 17.9   | 16.1   | 16.5   | 17.3   | 18.0   | 18.8   | 19.6   |
| 97.5°  | 58.8   | 49.6   | 40.5   | 31.3   | 22.2   | 17.6   | 18.5   | 20.3   | 22.0   | 23.8   | 25.6   |
| 100°   | 89.0   | 73.7   | 58.4   | 43.1   | 27.8   | 20.1   | 21.1   | 23.0   | 24.9   | 26.8   | 28.7   |
| 102.5° | 122.2  | 122.0  | 121.8  | 121.5  | 121.3  | 121.2  | 111.0  | 90.7   | 70.4   | 50.0   | 29.7   |
| 105°   | 152.8  | 156.2  | 159.5  | 162.9  | 166.2  | 167.9  | 152.7  | 122.2  | 91.7   | 61.2   | 30.7   |
| 107.5° | 188.5  | 191.3  | 194.1  | 196.9  | 199.7  | 201.1  | 182.3  | 144.6  | 107.0  | 69.3   | 31.7   |
| 110°   | 222.7  | 225.1  | 227.4  | 229.8  | 232.1  | 233.3  | 217.2  | 184.9  | 152.6  | 120.3  | 88.0   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 254.9 | 256.9 | 258.9 | 260.9 | 262.9 | 263.9 | 263.0 | 261.1 | 259.2 | 257.3 | 255.4 |
| 115°   | 289.1 | 291.0 | 292.9 | 294.8 | 296.7 | 297.6 | 299.0 | 301.8 | 304.6 | 307.4 | 310.2 |
| 117.5° | 318.7 | 320.9 | 323.2 | 325.4 | 327.7 | 328.8 | 329.7 | 331.6 | 333.5 | 335.4 | 337.3 |
| 120°   | 351.9 | 353.6 | 355.2 | 356.9 | 358.6 | 359.4 | 360.4 | 362.4 | 364.5 | 366.5 | 368.5 |
| 122.5° | 380.1 | 381.9 | 383.7 | 385.4 | 387.2 | 388.1 | 389.2 | 391.5 | 393.7 | 396.0 | 398.2 |
| 125°   | 408.7 | 410.1 | 411.6 | 413.0 | 414.5 | 415.2 | 416.3 | 418.4 | 420.5 | 422.7 | 424.8 |
| 127.5° | 434.9 | 436.5 | 438.0 | 439.6 | 441.1 | 441.9 | 442.7 | 444.4 | 446.1 | 447.7 | 449.4 |
| 130°   | 459.5 | 461.3 | 463.1 | 464.8 | 466.6 | 467.5 | 468.1 | 469.4 | 470.6 | 471.9 | 473.1 |
| 132.5° | 484.6 | 486.1 | 487.5 | 489.0 | 490.5 | 491.2 | 491.8 | 493.0 | 494.3 | 495.5 | 496.7 |
| 135°   | 505.7 | 507.5 | 509.3 | 511.1 | 512.9 | 513.8 | 514.3 | 515.3 | 516.3 | 517.3 | 518.3 |
| 137.5° | 527.9 | 529.2 | 530.6 | 531.9 | 533.2 | 533.9 | 534.5 | 535.6 | 536.7 | 537.8 | 538.9 |
| 140°   | 549.5 | 550.4 | 551.3 | 552.2 | 553.1 | 553.5 | 554.1 | 555.3 | 556.6 | 557.8 | 559.0 |
| 142.5° | 567.6 | 568.4 | 569.2 | 569.9 | 570.7 | 571.1 | 571.8 | 573.3 | 574.7 | 576.2 | 577.6 |
| 145°   | 586.7 | 586.6 | 586.5 | 586.4 | 586.3 | 586.2 | 587.1 | 589.0 | 590.9 | 592.8 | 594.7 |
| 147.5° | 603.3 | 603.0 | 602.6 | 602.3 | 602.0 | 601.8 | 602.7 | 604.6 | 606.5 | 608.4 | 610.3 |
| 150°   | 619.3 | 618.5 | 617.7 | 617.0 | 616.2 | 615.8 | 616.7 | 618.5 | 620.3 | 622.1 | 623.9 |
| 152.5° | 632.9 | 632.0 | 631.1 | 630.2 | 629.3 | 628.9 | 629.7 | 631.4 | 633.1 | 634.7 | 636.4 |
| 155°   | 646.0 | 645.0 | 644.0 | 643.0 | 642.0 | 641.5 | 642.2 | 643.5 | 644.8 | 646.2 | 647.5 |
| 157.5° | 656.5 | 655.6 | 654.7 | 653.8 | 652.9 | 652.5 | 653.0 | 654.0 | 655.1 | 656.1 | 657.1 |
| 160°   | 665.6 | 664.9 | 664.3 | 663.6 | 662.9 | 662.6 | 662.9 | 663.6 | 664.3 | 664.9 | 665.6 |
| 162.5° | 673.6 | 672.9 | 672.3 | 671.6 | 670.9 | 670.6 | 670.9 | 671.4 | 672.0 | 672.5 | 673.1 |
| 165°   | 680.7 | 680.0 | 679.4 | 678.7 | 678.0 | 677.7 | 677.9 | 678.2 | 678.5 | 678.9 | 679.2 |
| 167.5° | 686.2 | 685.5 | 684.9 | 684.2 | 683.5 | 683.2 | 683.4 | 683.7 | 684.0 | 684.4 | 684.7 |
| 170°   | 690.7 | 690.0 | 689.4 | 688.7 | 688.0 | 687.7 | 687.8 | 688.0 | 688.3 | 688.5 | 688.7 |
| 172.5° | 693.7 | 693.0 | 692.4 | 691.7 | 691.0 | 690.7 | 690.8 | 691.0 | 691.3 | 691.5 | 691.7 |
| 175°   | 696.3 | 695.5 | 694.7 | 693.9 | 693.1 | 692.7 | 692.8 | 693.0 | 693.3 | 693.5 | 693.7 |
| 177.5° | 697.3 | 696.5 | 695.7 | 694.9 | 694.1 | 693.7 | 693.8 | 693.9 | 694.0 | 694.2 | 694.3 |
| 180°   | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1996.6 | 1998.1 | 2001.1 | 2015.8 | 2023.2 | 2024.7 | 2018.8 | 2032.1 | 2036.5 | 2032.1 | 2029.1 |
| 5°     | 2091.1 | 2100.0 | 2117.7 | 2136.9 | 2135.4 | 2136.9 | 2145.8 | 2154.6 | 2157.6 | 2145.8 | 2150.2 |
| 7.5°   | 2173.8 | 2191.6 | 2210.8 | 2240.3 | 2240.3 | 2255.1 | 2261.0 | 2268.4 | 2286.1 | 2277.2 | 2274.3 |
| 10°    | 2268.4 | 2292.0 | 2327.4 | 2374.7 | 2376.2 | 2390.9 | 2405.7 | 2429.3 | 2436.7 | 2430.8 | 2433.8 |
| 12.5°  | 2386.5 | 2432.3 | 2435.2 | 2486.9 | 2510.6 | 2513.5 | 2537.1 | 2532.7 | 2547.5 | 2547.5 | 2572.6 |
| 15°    | 2438.2 | 2509.1 | 2549.0 | 2599.2 | 2613.9 | 2596.2 | 2615.4 | 2636.1 | 2637.6 | 2637.6 | 2636.1 |
| 17.5°  | 2531.2 | 2559.3 | 2599.2 | 2625.7 | 2631.7 | 2631.7 | 2633.1 | 2642.0 | 2636.1 | 2624.3 | 2633.1 |
| 20°    | 2550.4 | 2562.2 | 2577.0 | 2574.1 | 2577.0 | 2562.2 | 2547.5 | 2532.7 | 2534.2 | 2526.8 | 2549.0 |
| 22.5°  | 2515.0 | 2512.0 | 2478.1 | 2455.9 | 2455.9 | 2426.4 | 2398.3 | 2385.0 | 2371.7 | 2376.2 | 2383.5 |
| 25°    | 2426.4 | 2380.6 | 2339.2 | 2306.8 | 2299.4 | 2252.1 | 2213.7 | 2201.9 | 2179.8 | 2197.5 | 2200.4 |
| 27.5°  | 2284.6 | 2232.9 | 2166.5 | 2138.4 | 2100.0 | 2080.8 | 2054.2 | 2018.8 | 1973.0 | 1999.6 | 1995.2 |
| 30°    | 2132.5 | 2055.7 | 2001.1 | 1933.1 | 1872.6 | 1868.1 | 1817.9 | 1758.9 | 1735.2 | 1735.2 | 1748.5 |
| 32.5°  | 1962.7 | 1860.8 | 1781.0 | 1685.0 | 1626.0 | 1600.8 | 1540.3 | 1481.2 | 1494.5 | 1450.2 | 1466.5 |
| 35°    | 1764.8 | 1630.4 | 1530.0 | 1436.9 | 1392.6 | 1363.1 | 1284.8 | 1252.3 | 1216.9 | 1196.2 | 1234.6 |
| 37.5°  | 1575.7 | 1420.7 | 1292.2 | 1190.3 | 1174.1 | 1120.9 | 1067.7 | 1047.0 | 1026.4 | 1035.2 | 1033.8 |
| 40°    | 1345.4 | 1208.0 | 1092.8 | 1013.1 | 985.0  | 959.9  | 924.5  | 899.4  | 886.1  | 893.5  | 894.9  |
| 42.5°  | 1137.1 | 1021.9 | 936.3  | 880.2  | 856.5  | 838.8  | 821.1  | 800.4  | 796.0  | 796.0  | 801.9  |
| 45°    | 976.2  | 881.6  | 824.1  | 778.3  | 765.0  | 751.7  | 738.4  | 729.5  | 726.6  | 720.7  | 725.1  |
| 47.5°  | 847.7  | 772.4  | 736.9  | 703.0  | 688.2  | 685.2  | 673.4  | 669.0  | 663.1  | 661.6  | 663.1  |
| 50°    | 739.9  | 692.6  | 660.1  | 640.9  | 630.6  | 626.2  | 620.3  | 611.4  | 608.4  | 615.8  | 612.9  |
| 52.5°  | 664.6  | 620.3  | 602.5  | 583.3  | 577.4  | 571.5  | 562.7  | 564.1  | 562.7  | 559.7  | 559.7  |
| 55°    | 589.2  | 561.2  | 543.5  | 528.7  | 527.2  | 521.3  | 513.9  | 511.0  | 509.5  | 506.5  | 511.0  |
| 57.5°  | 528.7  | 506.5  | 490.3  | 477.0  | 471.1  | 471.1  | 463.7  | 457.8  | 457.8  | 456.3  | 457.8  |
| 60°    | 468.1  | 446.0  | 435.7  | 422.4  | 417.9  | 416.5  | 412.0  | 409.1  | 404.6  | 404.6  | 404.6  |
| 62.5°  | 412.0  | 394.3  | 382.5  | 370.7  | 372.2  | 364.8  | 358.9  | 355.9  | 355.9  | 357.4  | 357.4  |
| 65°    | 358.9  | 347.0  | 332.3  | 321.9  | 319.0  | 317.5  | 314.6  | 313.1  | 308.7  | 311.6  | 311.6  |
| 67.5°  | 310.1  | 293.9  | 285.0  | 280.6  | 276.2  | 274.7  | 271.7  | 268.8  | 267.3  | 265.8  | 268.8  |
| 70°    | 261.4  | 248.1  | 240.7  | 237.8  | 233.3  | 231.9  | 230.4  | 225.9  | 227.4  | 228.9  | 230.4  |
| 72.5°  | 217.1  | 205.3  | 203.8  | 194.9  | 194.9  | 194.9  | 189.0  | 192.0  | 190.5  | 187.6  | 190.5  |
| 75°    | 171.3  | 165.4  | 162.4  | 158.0  | 159.5  | 158.0  | 156.5  | 152.1  | 152.1  | 153.6  | 155.1  |
| 77.5°  | 135.9  | 130.0  | 128.5  | 124.1  | 121.1  | 124.1  | 121.1  | 119.6  | 119.6  | 121.1  | 121.1  |
| 80°    | 100.4  | 97.5   | 93.0   | 93.0   | 93.0   | 91.6   | 91.6   | 91.6   | 90.1   | 88.6   | 90.1   |
| 82.5°  | 66.5   | 66.5   | 65.0   | 63.5   | 65.0   | 62.0   | 63.5   | 63.5   | 63.5   | 63.5   | 63.5   |
| 85°    | 42.8   | 41.4   | 41.4   | 39.9   | 39.9   | 39.9   | 41.4   | 38.4   | 38.4   | 39.9   | 39.9   |
| 87.5°  | 19.2   | 19.2   | 19.2   | 20.7   | 19.2   | 19.2   | 19.2   | 20.7   | 19.2   | 19.2   | 19.2   |
| 90°    | 10.7   | 11.2   | 11.8   | 12.3   | 12.6   | 12.7   | 12.9   | 13.2   | 13.4   | 13.6   | 13.4   |
| 92.5°  | 12.3   | 12.5   | 12.8   | 13.0   | 13.1   | 13.2   | 13.3   | 13.4   | 13.5   | 13.6   | 13.5   |
| 95°    | 20.2   | 20.7   | 21.3   | 21.8   | 22.1   | 22.0   | 21.9   | 21.8   | 21.7   | 21.6   | 21.7   |
| 97.5°  | 25.9   | 26.3   | 26.6   | 26.9   | 27.1   | 27.2   | 27.3   | 27.4   | 27.5   | 27.6   | 27.5   |
| 100°   | 29.6   | 30.5   | 31.4   | 32.3   | 32.7   | 32.8   | 33.0   | 33.3   | 33.5   | 33.7   | 33.5   |
| 102.5° | 30.9   | 32.1   | 33.4   | 34.6   | 35.2   | 35.4   | 35.7   | 36.0   | 36.4   | 36.7   | 36.4   |
| 105°   | 31.9   | 33.1   | 34.4   | 35.6   | 36.2   | 36.4   | 36.9   | 37.3   | 37.8   | 38.2   | 37.8   |
| 107.5° | 32.9   | 34.1   | 35.4   | 36.6   | 37.2   | 37.4   | 37.9   | 38.3   | 38.8   | 39.2   | 38.8   |
| 110°   | 76.8   | 65.6   | 54.5   | 43.3   | 37.7   | 37.9   | 38.4   | 38.8   | 39.3   | 39.7   | 39.3   |



TEST NUMBER: P997914

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 207.2 | 159.1 | 110.9 | 62.8  | 38.7  | 38.9  | 39.2  | 39.5  | 39.9  | 40.2  | 39.9  |
| 115°   | 258.5 | 206.7 | 155.0 | 103.3 | 77.4  | 73.4  | 65.3  | 57.3  | 49.2  | 41.2  | 49.2  |
| 117.5° | 321.3 | 305.3 | 289.4 | 273.4 | 265.4 | 250.8 | 221.5 | 192.2 | 163.0 | 133.7 | 163.0 |
| 120°   | 369.8 | 371.2 | 372.5 | 373.8 | 374.5 | 367.0 | 351.9 | 336.8 | 321.8 | 306.7 | 321.8 |
| 122.5° | 398.9 | 399.5 | 400.2 | 400.9 | 401.2 | 401.3 | 401.4 | 401.5 | 401.6 | 401.7 | 401.6 |
| 125°   | 425.6 | 426.4 | 427.1 | 427.9 | 428.3 | 428.5 | 428.8 | 429.1 | 429.5 | 429.8 | 429.5 |
| 127.5° | 450.5 | 451.7 | 452.8 | 453.9 | 454.5 | 454.6 | 454.7 | 454.8 | 454.9 | 455.0 | 454.9 |
| 130°   | 474.3 | 475.5 | 476.8 | 478.0 | 478.6 | 478.5 | 478.4 | 478.3 | 478.2 | 478.1 | 478.2 |
| 132.5° | 497.7 | 498.7 | 499.7 | 500.7 | 501.2 | 501.1 | 501.0 | 500.9 | 500.8 | 500.7 | 500.8 |
| 135°   | 519.4 | 520.5 | 521.6 | 522.7 | 523.3 | 523.2 | 523.0 | 522.7 | 522.5 | 522.3 | 522.5 |
| 137.5° | 540.0 | 541.1 | 542.2 | 543.3 | 543.9 | 543.7 | 543.4 | 543.1 | 542.7 | 542.4 | 542.7 |
| 140°   | 560.0 | 561.0 | 562.0 | 563.0 | 563.5 | 563.2 | 562.7 | 562.1 | 561.6 | 561.0 | 561.6 |
| 142.5° | 578.5 | 579.4 | 580.3 | 581.2 | 581.6 | 581.3 | 580.8 | 580.2 | 579.7 | 579.1 | 579.7 |
| 145°   | 595.5 | 596.3 | 597.0 | 597.8 | 598.2 | 597.9 | 597.4 | 596.8 | 596.3 | 595.7 | 596.3 |
| 147.5° | 610.9 | 611.4 | 612.0 | 612.5 | 612.8 | 612.6 | 612.1 | 611.7 | 611.2 | 610.8 | 611.2 |
| 150°   | 624.6 | 625.2 | 625.9 | 626.6 | 626.9 | 626.6 | 626.1 | 625.5 | 625.0 | 624.4 | 625.0 |
| 152.5° | 637.1 | 637.8 | 638.5 | 639.2 | 639.5 | 639.1 | 638.3 | 637.5 | 636.7 | 635.9 | 636.7 |
| 155°   | 648.2 | 648.8 | 649.5 | 650.2 | 650.5 | 650.1 | 649.2 | 648.3 | 647.4 | 646.5 | 647.4 |
| 157.5° | 657.9 | 658.7 | 659.4 | 660.2 | 660.6 | 660.1 | 659.2 | 658.3 | 657.4 | 656.5 | 657.4 |
| 160°   | 666.3 | 666.9 | 667.6 | 668.3 | 668.6 | 668.2 | 667.4 | 666.7 | 665.9 | 665.1 | 665.9 |
| 162.5° | 673.9 | 674.7 | 675.5 | 676.3 | 676.7 | 676.2 | 675.2 | 674.1 | 673.1 | 672.1 | 673.1 |
| 165°   | 680.0 | 680.8 | 681.5 | 682.3 | 682.7 | 682.3 | 681.5 | 680.8 | 680.0 | 679.2 | 680.0 |
| 167.5° | 685.5 | 686.3 | 687.0 | 687.8 | 688.2 | 687.7 | 686.7 | 685.7 | 684.7 | 683.7 | 684.7 |
| 170°   | 689.5 | 690.3 | 691.0 | 691.8 | 692.2 | 691.7 | 690.7 | 689.7 | 688.7 | 687.7 | 688.7 |
| 172.5° | 692.5 | 693.3 | 694.1 | 694.9 | 695.3 | 694.8 | 693.8 | 692.7 | 691.7 | 690.7 | 691.7 |
| 175°   | 694.5 | 695.3 | 696.1 | 696.9 | 697.3 | 696.7 | 695.6 | 694.5 | 693.3 | 692.2 | 693.3 |
| 177.5° | 695.1 | 695.9 | 696.6 | 697.4 | 697.8 | 697.3 | 696.3 | 695.2 | 694.2 | 693.2 | 694.2 |
| 180°   | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 |

TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 2036.5 | 2026.2 | 2017.3 | 2018.8 | 2026.2 | 2020.3 | 2005.5 | 1986.3 | 1978.9 | 1970.0 | 1978.9 |
| 5°     | 2159.1 | 2150.2 | 2132.5 | 2134.0 | 2129.5 | 2123.6 | 2100.0 | 2070.5 | 2070.5 | 2046.8 | 2043.9 |
| 7.5°   | 2280.2 | 2266.9 | 2255.1 | 2252.1 | 2235.9 | 2224.1 | 2203.4 | 2162.0 | 2145.8 | 2117.7 | 2101.5 |
| 10°    | 2416.0 | 2405.7 | 2392.4 | 2376.2 | 2367.3 | 2346.6 | 2312.7 | 2252.1 | 2222.6 | 2184.2 | 2156.1 |
| 12.5°  | 2553.4 | 2551.9 | 2522.4 | 2489.9 | 2488.4 | 2455.9 | 2432.3 | 2351.1 | 2311.2 | 2259.5 | 2193.0 |
| 15°    | 2640.5 | 2633.1 | 2616.9 | 2600.6 | 2605.1 | 2569.6 | 2516.5 | 2420.5 | 2393.9 | 2331.9 | 2261.0 |
| 17.5°  | 2639.0 | 2639.0 | 2634.6 | 2631.7 | 2627.2 | 2616.9 | 2587.3 | 2523.8 | 2481.0 | 2402.7 | 2336.3 |
| 20°    | 2554.9 | 2574.1 | 2578.5 | 2577.0 | 2591.8 | 2599.2 | 2597.7 | 2557.8 | 2523.8 | 2454.4 | 2386.5 |
| 22.5°  | 2386.5 | 2430.8 | 2450.0 | 2461.8 | 2492.8 | 2509.1 | 2547.5 | 2532.7 | 2523.8 | 2472.2 | 2414.6 |
| 25°    | 2230.0 | 2244.7 | 2302.3 | 2305.3 | 2348.1 | 2388.0 | 2426.4 | 2451.5 | 2484.0 | 2464.8 | 2416.0 |
| 27.5°  | 2027.6 | 2061.6 | 2103.0 | 2134.0 | 2142.8 | 2224.1 | 2287.6 | 2334.8 | 2408.7 | 2414.6 | 2398.3 |
| 30°    | 1798.7 | 1815.0 | 1882.9 | 1924.3 | 1971.5 | 2030.6 | 2122.2 | 2203.4 | 2269.8 | 2330.4 | 2351.1 |
| 32.5°  | 1519.6 | 1586.1 | 1626.0 | 1676.2 | 1717.5 | 1822.4 | 1934.6 | 2039.5 | 2116.2 | 2218.1 | 2262.5 |
| 35°    | 1264.1 | 1315.8 | 1383.8 | 1404.4 | 1479.8 | 1568.4 | 1714.6 | 1848.9 | 1965.6 | 2069.0 | 2159.1 |
| 37.5°  | 1053.0 | 1094.3 | 1166.7 | 1199.2 | 1243.5 | 1357.2 | 1479.8 | 1646.6 | 1786.9 | 1913.9 | 2026.2 |
| 40°    | 908.2  | 939.2  | 993.9  | 1004.2 | 1041.1 | 1144.5 | 1243.5 | 1400.0 | 1586.1 | 1757.4 | 1880.0 |
| 42.5°  | 809.3  | 824.1  | 861.0  | 874.3  | 897.9  | 967.3  | 1055.9 | 1203.6 | 1376.4 | 1553.6 | 1726.4 |
| 45°    | 738.4  | 748.7  | 770.9  | 782.7  | 812.2  | 843.3  | 915.6  | 1033.8 | 1169.6 | 1348.3 | 1534.4 |
| 47.5°  | 674.9  | 688.2  | 697.0  | 704.4  | 720.7  | 754.6  | 801.9  | 889.0  | 1019.0 | 1182.9 | 1363.1 |
| 50°    | 621.7  | 626.2  | 642.4  | 643.9  | 654.2  | 676.4  | 720.7  | 773.8  | 877.2  | 1010.1 | 1184.4 |
| 52.5°  | 568.6  | 573.0  | 583.3  | 593.7  | 598.1  | 615.8  | 645.4  | 689.7  | 766.5  | 871.3  | 1026.4 |
| 55°    | 515.4  | 521.3  | 531.6  | 539.0  | 543.5  | 558.2  | 576.0  | 618.8  | 679.3  | 753.2  | 880.2  |
| 57.5°  | 462.2  | 475.5  | 478.5  | 482.9  | 490.3  | 506.5  | 522.8  | 547.9  | 595.1  | 663.1  | 756.1  |
| 60°    | 412.0  | 416.5  | 426.8  | 431.2  | 438.6  | 447.5  | 468.1  | 487.3  | 521.3  | 574.5  | 658.7  |
| 62.5°  | 360.3  | 370.7  | 375.1  | 379.5  | 385.4  | 395.8  | 409.1  | 429.7  | 459.3  | 502.1  | 568.6  |
| 65°    | 316.0  | 317.5  | 326.4  | 332.3  | 338.2  | 345.6  | 358.9  | 378.1  | 395.8  | 435.7  | 484.4  |
| 67.5°  | 273.2  | 276.2  | 279.1  | 285.0  | 292.4  | 299.8  | 311.6  | 321.9  | 344.1  | 370.7  | 409.1  |
| 70°    | 231.9  | 231.9  | 239.2  | 243.7  | 242.2  | 251.1  | 259.9  | 271.7  | 288.0  | 313.1  | 344.1  |
| 72.5°  | 194.9  | 193.5  | 199.4  | 200.8  | 203.8  | 209.7  | 215.6  | 227.4  | 236.3  | 255.5  | 279.1  |
| 75°    | 155.1  | 158.0  | 161.0  | 161.0  | 165.4  | 169.8  | 175.7  | 181.6  | 192.0  | 203.8  | 221.5  |
| 77.5°  | 122.6  | 122.6  | 125.5  | 127.0  | 131.4  | 130.0  | 135.9  | 141.8  | 149.2  | 159.5  | 172.8  |
| 80°    | 90.1   | 93.0   | 93.0   | 93.0   | 94.5   | 96.0   | 101.9  | 106.3  | 110.8  | 118.1  | 124.1  |
| 82.5°  | 63.5   | 63.5   | 66.5   | 66.5   | 66.5   | 69.4   | 69.4   | 70.9   | 73.8   | 78.3   | 82.7   |
| 85°    | 39.9   | 39.9   | 39.9   | 41.4   | 39.9   | 41.4   | 44.3   | 42.8   | 44.3   | 47.3   | 47.3   |
| 87.5°  | 19.2   | 19.2   | 19.2   | 19.2   | 19.2   | 20.7   | 19.2   | 20.7   | 22.2   | 22.2   | 22.2   |
| 90°    | 13.2   | 12.9   | 12.7   | 12.6   | 12.3   | 11.8   | 11.2   | 10.7   | 10.1   | 9.2    | 8.3    |
| 92.5°  | 13.4   | 13.3   | 13.2   | 13.1   | 13.0   | 12.8   | 12.5   | 12.3   | 12.1   | 11.8   | 11.4   |
| 95°    | 21.8   | 21.9   | 22.0   | 22.1   | 21.8   | 21.3   | 20.7   | 20.2   | 19.6   | 18.8   | 18.0   |
| 97.5°  | 27.4   | 27.3   | 27.2   | 27.1   | 26.9   | 26.6   | 26.3   | 25.9   | 25.6   | 23.8   | 22.0   |
| 100°   | 33.3   | 33.0   | 32.8   | 32.7   | 32.3   | 31.4   | 30.5   | 29.6   | 28.7   | 26.8   | 24.9   |
| 102.5° | 36.0   | 35.7   | 35.4   | 35.2   | 34.6   | 33.4   | 32.1   | 30.9   | 29.7   | 50.0   | 70.4   |
| 105°   | 37.3   | 36.9   | 36.4   | 36.2   | 35.6   | 34.4   | 33.1   | 31.9   | 30.7   | 61.2   | 91.7   |
| 107.5° | 38.3   | 37.9   | 37.4   | 37.2   | 36.6   | 35.4   | 34.1   | 32.9   | 31.7   | 69.3   | 107.0  |
| 110°   | 38.8   | 38.4   | 37.9   | 37.7   | 43.3   | 54.5   | 65.6   | 76.8   | 88.0   | 120.3  | 152.6  |



TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 39.5  | 39.2  | 38.9  | 38.7   | 62.8  | 110.9 | 159.1 | 207.2 | 255.4 | 257.3 | 259.2 |
| 115°   | 57.3  | 65.3  | 73.4  | 77.4   | 103.3 | 155.0 | 206.7 | 258.5 | 310.2 | 307.4 | 304.6 |
| 117.5° | 192.2 | 221.5 | 250.8 | 265.4  | 273.4 | 289.4 | 305.3 | 321.3 | 337.3 | 335.4 | 333.5 |
| 120°   | 336.8 | 351.9 | 367.0 | 374.5  | 373.8 | 372.5 | 371.2 | 369.8 | 368.5 | 366.5 | 364.5 |
| 122.5° | 401.5 | 401.4 | 401.3 | 401.2  | 400.9 | 400.2 | 399.5 | 398.9 | 398.2 | 396.0 | 393.7 |
| 125°   | 429.1 | 428.8 | 428.5 | 428.3  | 427.9 | 427.1 | 426.4 | 425.6 | 424.8 | 422.7 | 420.5 |
| 127.5° | 454.8 | 454.7 | 454.6 | 454.5  | 453.9 | 452.8 | 451.7 | 450.5 | 449.4 | 447.7 | 446.1 |
| 130°   | 478.3 | 478.4 | 478.5 | 478.6  | 478.0 | 476.8 | 475.5 | 474.3 | 473.1 | 471.9 | 470.6 |
| 132.5° | 500.9 | 501.0 | 501.1 | 501.2  | 500.7 | 499.7 | 498.7 | 497.7 | 496.7 | 495.5 | 494.3 |
| 135°   | 522.7 | 523.0 | 523.2 | 523.3  | 522.7 | 521.6 | 520.5 | 519.4 | 518.3 | 517.3 | 516.3 |
| 137.5° | 543.1 | 543.4 | 543.7 | 543.9  | 543.3 | 542.2 | 541.1 | 540.0 | 538.9 | 537.8 | 536.7 |
| 140°   | 562.1 | 562.7 | 563.2 | 563.5  | 563.0 | 562.0 | 561.0 | 560.0 | 559.0 | 557.8 | 556.6 |
| 142.5° | 580.2 | 580.8 | 581.3 | 581.6  | 581.2 | 580.3 | 579.4 | 578.5 | 577.6 | 576.2 | 574.7 |
| 145°   | 596.8 | 597.4 | 597.9 | 598.2  | 597.8 | 597.0 | 596.3 | 595.5 | 594.7 | 592.8 | 590.9 |
| 147.5° | 611.7 | 612.1 | 612.6 | 612.8  | 612.5 | 612.0 | 611.4 | 610.9 | 610.3 | 608.4 | 606.5 |
| 150°   | 625.5 | 626.1 | 626.6 | 626.9  | 626.6 | 625.9 | 625.2 | 624.6 | 623.9 | 622.1 | 620.3 |
| 152.5° | 637.5 | 638.3 | 639.1 | 639.5  | 639.2 | 638.5 | 637.8 | 637.1 | 636.4 | 634.7 | 633.1 |
| 155°   | 648.3 | 649.2 | 650.1 | 650.5  | 650.2 | 649.5 | 648.8 | 648.2 | 647.5 | 646.2 | 644.8 |
| 157.5° | 658.3 | 659.2 | 660.1 | 660.6  | 660.2 | 659.4 | 658.7 | 657.9 | 657.1 | 656.1 | 655.1 |
| 160°   | 666.7 | 667.4 | 668.2 | 668.6  | 668.3 | 667.6 | 666.9 | 666.3 | 665.6 | 664.9 | 664.3 |
| 162.5° | 674.1 | 675.2 | 676.2 | 676.7  | 676.3 | 675.5 | 674.7 | 673.9 | 673.1 | 672.5 | 672.0 |
| 165°   | 680.8 | 681.5 | 682.3 | 682.7  | 682.3 | 681.5 | 680.8 | 680.0 | 679.2 | 678.9 | 678.5 |
| 167.5° | 685.7 | 686.7 | 687.7 | 688.2  | 687.8 | 687.0 | 686.3 | 685.5 | 684.7 | 684.4 | 684.0 |
| 170°   | 689.7 | 690.7 | 691.7 | 692.2  | 691.8 | 691.0 | 690.3 | 689.5 | 688.7 | 688.5 | 688.3 |
| 172.5° | 692.7 | 693.8 | 694.8 | 695.3  | 694.9 | 694.1 | 693.3 | 692.5 | 691.7 | 691.5 | 691.3 |
| 175°   | 694.5 | 695.6 | 696.7 | 697.3  | 696.9 | 696.1 | 695.3 | 694.5 | 693.7 | 693.5 | 693.3 |
| 177.5° | 695.2 | 696.3 | 697.3 | 697.8  | 697.4 | 696.6 | 695.9 | 695.1 | 694.3 | 694.2 | 694.0 |
| 180°   | 694.8 | 694.8 | 694.8 | 694.8  | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1971.5 | 1964.1 | 1959.7 | 1962.7 | 1953.8 | 1931.6 | 1931.6 | 1939.0 | 1930.2 | 1921.3 | 1908.0 |
| 5°     | 2026.2 | 2011.4 | 2002.5 | 2001.1 | 1980.4 | 1944.9 | 1937.6 | 1930.2 | 1911.0 | 1890.3 | 1868.1 |
| 7.5°   | 2079.3 | 2052.7 | 2038.0 | 2027.6 | 1998.1 | 1952.3 | 1933.1 | 1916.9 | 1885.9 | 1854.9 | 1826.8 |
| 10°    | 2123.6 | 2085.2 | 2067.5 | 2051.3 | 2012.9 | 1955.3 | 1924.3 | 1894.7 | 1854.9 | 1815.0 | 1779.5 |
| 12.5°  | 2159.1 | 2114.8 | 2092.6 | 2069.0 | 2021.7 | 1946.4 | 1908.0 | 1860.8 | 1820.9 | 1767.7 | 1732.3 |
| 15°    | 2218.1 | 2126.6 | 2105.9 | 2083.8 | 2035.0 | 1931.6 | 1884.4 | 1831.2 | 1776.6 | 1705.7 | 1667.3 |
| 17.5°  | 2265.4 | 2142.8 | 2141.4 | 2094.1 | 2030.6 | 1925.7 | 1853.4 | 1784.0 | 1724.9 | 1654.0 | 1593.5 |
| 20°    | 2293.5 | 2167.9 | 2144.3 | 2095.6 | 2015.8 | 1885.9 | 1810.6 | 1733.8 | 1670.3 | 1584.6 | 1524.1 |
| 22.5°  | 2317.1 | 2203.4 | 2141.4 | 2082.3 | 1984.8 | 1872.6 | 1761.8 | 1689.5 | 1602.3 | 1509.3 | 1451.7 |
| 25°    | 2326.0 | 2210.8 | 2145.8 | 2077.9 | 1962.7 | 1834.2 | 1708.7 | 1630.4 | 1532.9 | 1448.7 | 1370.5 |
| 27.5°  | 2327.4 | 2209.3 | 2129.5 | 2058.7 | 1931.6 | 1784.0 | 1655.5 | 1572.8 | 1465.0 | 1367.5 | 1289.2 |
| 30°    | 2312.7 | 2193.0 | 2120.7 | 2043.9 | 1902.1 | 1738.2 | 1590.5 | 1498.9 | 1383.8 | 1286.3 | 1205.1 |
| 32.5°  | 2268.4 | 2160.6 | 2101.5 | 2017.3 | 1863.7 | 1674.7 | 1528.5 | 1426.6 | 1305.5 | 1209.5 | 1131.2 |
| 35°    | 2194.5 | 2120.7 | 2055.7 | 1977.4 | 1813.5 | 1615.6 | 1466.5 | 1346.8 | 1224.3 | 1132.7 | 1058.9 |
| 37.5°  | 2103.0 | 2063.1 | 2002.5 | 1925.7 | 1755.9 | 1562.5 | 1397.0 | 1264.1 | 1141.6 | 1053.0 | 980.6  |
| 40°    | 1978.9 | 1989.2 | 1930.2 | 1860.8 | 1688.0 | 1490.1 | 1307.0 | 1180.0 | 1064.8 | 982.1  | 911.2  |
| 42.5°  | 1844.5 | 1887.3 | 1853.4 | 1786.9 | 1612.7 | 1410.3 | 1240.5 | 1100.2 | 988.0  | 902.3  | 843.3  |
| 45°    | 1699.8 | 1773.6 | 1753.0 | 1704.2 | 1534.4 | 1326.2 | 1146.0 | 1010.1 | 911.2  | 828.5  | 776.8  |
| 47.5°  | 1541.8 | 1646.6 | 1646.6 | 1611.2 | 1447.3 | 1242.0 | 1064.8 | 926.0  | 828.5  | 769.4  | 719.2  |
| 50°    | 1380.8 | 1498.9 | 1518.1 | 1494.5 | 1349.8 | 1146.0 | 965.8  | 840.3  | 756.1  | 698.5  | 661.6  |
| 52.5°  | 1212.4 | 1349.8 | 1385.2 | 1373.4 | 1246.4 | 1054.4 | 884.6  | 762.0  | 685.2  | 635.0  | 602.5  |
| 55°    | 1051.5 | 1211.0 | 1249.4 | 1253.8 | 1135.7 | 954.0  | 794.5  | 686.7  | 612.9  | 578.9  | 550.8  |
| 57.5°  | 899.4  | 1053.0 | 1095.8 | 1103.2 | 1023.4 | 862.4  | 710.3  | 615.8  | 549.4  | 521.3  | 499.2  |
| 60°    | 769.4  | 897.9  | 954.0  | 970.3  | 900.8  | 756.1  | 632.1  | 540.5  | 490.3  | 463.7  | 443.0  |
| 62.5°  | 663.1  | 766.5  | 825.5  | 830.0  | 798.9  | 663.1  | 550.8  | 474.1  | 431.2  | 407.6  | 397.3  |
| 65°    | 559.7  | 652.7  | 688.2  | 705.9  | 680.8  | 574.5  | 475.5  | 412.0  | 378.1  | 357.4  | 347.0  |
| 67.5°  | 477.0  | 536.1  | 565.6  | 589.2  | 564.1  | 484.4  | 404.6  | 353.0  | 327.8  | 307.2  | 301.3  |
| 70°    | 391.4  | 440.1  | 462.2  | 485.9  | 463.7  | 403.2  | 345.6  | 298.3  | 276.2  | 259.9  | 252.5  |
| 72.5°  | 313.1  | 351.5  | 372.2  | 386.9  | 373.6  | 323.4  | 276.2  | 243.7  | 227.4  | 215.6  | 211.2  |
| 75°    | 248.1  | 274.7  | 286.5  | 296.8  | 290.9  | 252.5  | 223.0  | 196.4  | 181.6  | 171.3  | 168.4  |
| 77.5°  | 189.0  | 208.2  | 221.5  | 224.5  | 217.1  | 192.0  | 166.9  | 150.6  | 138.8  | 132.9  | 130.0  |
| 80°    | 134.4  | 146.2  | 153.6  | 158.0  | 150.6  | 140.3  | 122.6  | 110.8  | 100.4  | 93.0   | 91.6   |
| 82.5°  | 90.1   | 96.0   | 101.9  | 100.4  | 97.5   | 88.6   | 78.3   | 72.4   | 67.9   | 62.0   | 62.0   |
| 85°    | 51.7   | 53.2   | 56.1   | 57.6   | 56.1   | 50.2   | 44.3   | 41.4   | 38.4   | 34.0   | 34.0   |
| 87.5°  | 22.2   | 23.6   | 23.6   | 25.1   | 22.2   | 22.2   | 19.2   | 16.2   | 16.2   | 14.8   | 13.3   |
| 90°    | 7.4    | 6.5    | 6.0    | 5.4    | 4.2    | 2.9    | 1.7    | 0.5    | 1.7    | 2.9    | 4.2    |
| 92.5°  | 11.1   | 10.8   | 10.6   | 10.8   | 11.3   | 11.7   | 12.2   | 12.6   | 12.2   | 11.7   | 11.3   |
| 95°    | 17.3   | 16.5   | 16.1   | 17.9   | 21.6   | 25.3   | 29.0   | 32.7   | 29.0   | 25.3   | 21.6   |
| 97.5°  | 20.3   | 18.5   | 17.6   | 22.2   | 31.3   | 40.5   | 49.6   | 58.8   | 49.6   | 40.5   | 31.3   |
| 100°   | 23.0   | 21.1   | 20.1   | 27.8   | 43.1   | 58.4   | 73.7   | 89.0   | 73.7   | 58.4   | 43.1   |
| 102.5° | 90.7   | 111.0  | 121.2  | 121.3  | 121.5  | 121.8  | 122.0  | 122.2  | 122.0  | 121.8  | 121.5  |
| 105°   | 122.2  | 152.7  | 167.9  | 166.2  | 162.9  | 159.5  | 156.2  | 152.8  | 156.2  | 159.5  | 162.9  |
| 107.5° | 144.6  | 182.3  | 201.1  | 199.7  | 196.9  | 194.1  | 191.3  | 188.5  | 191.3  | 194.1  | 196.9  |
| 110°   | 184.9  | 217.2  | 233.3  | 232.1  | 229.8  | 227.4  | 225.1  | 222.7  | 225.1  | 227.4  | 229.8  |

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CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 261.1 | 263.0 | 263.9  | 262.9 | 260.9 | 258.9 | 256.9 | 254.9 | 256.9 | 258.9 | 260.9 |
| 115°   | 301.8 | 299.0 | 297.6  | 296.7 | 294.8 | 292.9 | 291.0 | 289.1 | 291.0 | 292.9 | 294.8 |
| 117.5° | 331.6 | 329.7 | 328.8  | 327.7 | 325.4 | 323.2 | 320.9 | 318.7 | 320.9 | 323.2 | 325.4 |
| 120°   | 362.4 | 360.4 | 359.4  | 358.6 | 356.9 | 355.2 | 353.6 | 351.9 | 353.6 | 355.2 | 356.9 |
| 122.5° | 391.5 | 389.2 | 388.1  | 387.2 | 385.4 | 383.7 | 381.9 | 380.1 | 381.9 | 383.7 | 385.4 |
| 125°   | 418.4 | 416.3 | 415.2  | 414.5 | 413.0 | 411.6 | 410.1 | 408.7 | 410.1 | 411.6 | 413.0 |
| 127.5° | 444.4 | 442.7 | 441.9  | 441.1 | 439.6 | 438.0 | 436.5 | 434.9 | 436.5 | 438.0 | 439.6 |
| 130°   | 469.4 | 468.1 | 467.5  | 466.6 | 464.8 | 463.1 | 461.3 | 459.5 | 461.3 | 463.1 | 464.8 |
| 132.5° | 493.0 | 491.8 | 491.2  | 490.5 | 489.0 | 487.5 | 486.1 | 484.6 | 486.1 | 487.5 | 489.0 |
| 135°   | 515.3 | 514.3 | 513.8  | 512.9 | 511.1 | 509.3 | 507.5 | 505.7 | 507.5 | 509.3 | 511.1 |
| 137.5° | 535.6 | 534.5 | 533.9  | 533.2 | 531.9 | 530.6 | 529.2 | 527.9 | 529.2 | 530.6 | 531.9 |
| 140°   | 555.3 | 554.1 | 553.5  | 553.1 | 552.2 | 551.3 | 550.4 | 549.5 | 550.4 | 551.3 | 552.2 |
| 142.5° | 573.3 | 571.8 | 571.1  | 570.7 | 569.9 | 569.2 | 568.4 | 567.6 | 568.4 | 569.2 | 569.9 |
| 145°   | 589.0 | 587.1 | 586.2  | 586.3 | 586.4 | 586.5 | 586.6 | 586.7 | 586.6 | 586.5 | 586.4 |
| 147.5° | 604.6 | 602.7 | 601.8  | 602.0 | 602.3 | 602.6 | 603.0 | 603.3 | 603.0 | 602.6 | 602.3 |
| 150°   | 618.5 | 616.7 | 615.8  | 616.2 | 617.0 | 617.7 | 618.5 | 619.3 | 618.5 | 617.7 | 617.0 |
| 152.5° | 631.4 | 629.7 | 628.9  | 629.3 | 630.2 | 631.1 | 632.0 | 632.9 | 632.0 | 631.1 | 630.2 |
| 155°   | 643.5 | 642.2 | 641.5  | 642.0 | 643.0 | 644.0 | 645.0 | 646.0 | 645.0 | 644.0 | 643.0 |
| 157.5° | 654.0 | 653.0 | 652.5  | 652.9 | 653.8 | 654.7 | 655.6 | 656.5 | 655.6 | 654.7 | 653.8 |
| 160°   | 663.6 | 662.9 | 662.6  | 662.9 | 663.6 | 664.3 | 664.9 | 665.6 | 664.9 | 664.3 | 663.6 |
| 162.5° | 671.4 | 670.9 | 670.6  | 670.9 | 671.6 | 672.3 | 672.9 | 673.6 | 672.9 | 672.3 | 671.6 |
| 165°   | 678.2 | 677.9 | 677.7  | 678.0 | 678.7 | 679.4 | 680.0 | 680.7 | 680.0 | 679.4 | 678.7 |
| 167.5° | 683.7 | 683.4 | 683.2  | 683.5 | 684.2 | 684.9 | 685.5 | 686.2 | 685.5 | 684.9 | 684.2 |
| 170°   | 688.0 | 687.8 | 687.7  | 688.0 | 688.7 | 689.4 | 690.0 | 690.7 | 690.0 | 689.4 | 688.7 |
| 172.5° | 691.0 | 690.8 | 690.7  | 691.0 | 691.7 | 692.4 | 693.0 | 693.7 | 693.0 | 692.4 | 691.7 |
| 175°   | 693.0 | 692.8 | 692.7  | 693.1 | 693.9 | 694.7 | 695.5 | 696.3 | 695.5 | 694.7 | 693.9 |
| 177.5° | 693.9 | 693.8 | 693.7  | 694.1 | 694.9 | 695.7 | 696.5 | 697.3 | 696.5 | 695.7 | 694.9 |
| 180°   | 694.8 | 694.8 | 694.8  | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1900.6 | 1908.0 | 1906.5 | 1891.8 | 1875.5 | 1862.2 | 1837.1 | 1840.1 | 1831.2 | 1832.7 | 1841.6 |
| 5°     | 1853.4 | 1853.4 | 1847.5 | 1826.8 | 1800.2 | 1785.4 | 1757.4 | 1750.0 | 1732.3 | 1730.8 | 1729.3 |
| 7.5°   | 1803.2 | 1795.8 | 1788.4 | 1758.9 | 1726.4 | 1702.7 | 1664.3 | 1655.5 | 1637.8 | 1626.0 | 1620.0 |
| 10°    | 1744.1 | 1733.8 | 1719.0 | 1685.0 | 1645.2 | 1615.6 | 1575.7 | 1563.9 | 1530.0 | 1515.2 | 1506.3 |
| 12.5°  | 1679.1 | 1673.2 | 1649.6 | 1621.5 | 1556.5 | 1524.1 | 1466.5 | 1478.3 | 1444.3 | 1414.8 | 1410.3 |
| 15°    | 1614.1 | 1592.0 | 1578.7 | 1532.9 | 1454.6 | 1439.9 | 1394.1 | 1370.5 | 1339.5 | 1315.8 | 1315.8 |
| 17.5°  | 1550.6 | 1516.7 | 1487.1 | 1438.4 | 1380.8 | 1339.5 | 1305.5 | 1293.7 | 1255.3 | 1231.6 | 1227.2 |
| 20°    | 1466.5 | 1428.1 | 1420.7 | 1351.3 | 1311.4 | 1265.6 | 1233.1 | 1203.6 | 1175.5 | 1165.2 | 1157.8 |
| 22.5°  | 1386.7 | 1342.4 | 1330.6 | 1271.5 | 1231.6 | 1185.9 | 1153.4 | 1132.7 | 1112.0 | 1104.6 | 1091.4 |
| 25°    | 1301.1 | 1274.5 | 1256.8 | 1193.3 | 1148.9 | 1106.1 | 1084.0 | 1069.2 | 1050.0 | 1048.5 | 1039.7 |
| 27.5°  | 1218.4 | 1193.3 | 1175.5 | 1115.0 | 1082.5 | 1042.6 | 1024.9 | 1008.7 | 998.3  | 993.9  | 989.5  |
| 30°    | 1147.5 | 1119.4 | 1098.7 | 1054.4 | 1014.6 | 982.1  | 967.3  | 957.0  | 951.1  | 943.7  | 942.2  |
| 32.5°  | 1069.2 | 1053.0 | 1024.9 | 990.9  | 959.9  | 928.9  | 920.0  | 912.7  | 903.8  | 900.8  | 899.4  |
| 35°    | 1002.7 | 980.6  | 962.9  | 924.5  | 911.2  | 884.6  | 874.3  | 868.4  | 856.5  | 853.6  | 850.6  |
| 37.5°  | 937.8  | 917.1  | 897.9  | 874.3  | 849.2  | 834.4  | 828.5  | 819.6  | 813.7  | 815.2  | 812.2  |
| 40°    | 872.8  | 856.5  | 841.8  | 816.7  | 801.9  | 794.5  | 782.7  | 773.8  | 770.9  | 772.4  | 770.9  |
| 42.5°  | 809.3  | 794.5  | 785.7  | 766.5  | 751.7  | 744.3  | 736.9  | 728.1  | 732.5  | 732.5  | 736.9  |
| 45°    | 751.7  | 738.4  | 732.5  | 717.7  | 708.9  | 697.0  | 689.7  | 688.2  | 694.1  | 692.6  | 692.6  |
| 47.5°  | 692.6  | 688.2  | 680.8  | 667.5  | 655.7  | 648.3  | 646.8  | 646.8  | 652.7  | 655.7  | 654.2  |
| 50°    | 646.8  | 638.0  | 629.1  | 618.8  | 609.9  | 607.0  | 602.5  | 605.5  | 611.4  | 611.4  | 614.3  |
| 52.5°  | 589.2  | 583.3  | 580.4  | 571.5  | 565.6  | 565.6  | 565.6  | 567.1  | 571.5  | 576.0  | 574.5  |
| 55°    | 539.0  | 534.6  | 531.6  | 527.2  | 519.8  | 521.3  | 519.8  | 522.8  | 527.2  | 531.6  | 534.6  |
| 57.5°  | 485.9  | 484.4  | 481.4  | 474.1  | 474.1  | 472.6  | 477.0  | 478.5  | 485.9  | 488.8  | 493.3  |
| 60°    | 438.6  | 434.2  | 434.2  | 428.3  | 428.3  | 428.3  | 432.7  | 437.1  | 443.0  | 444.5  | 447.5  |
| 62.5°  | 388.4  | 388.4  | 386.9  | 382.5  | 382.5  | 386.9  | 388.4  | 394.3  | 397.3  | 397.3  | 401.7  |
| 65°    | 341.1  | 339.7  | 338.2  | 339.7  | 341.1  | 341.1  | 345.6  | 348.5  | 351.5  | 353.0  | 354.4  |
| 67.5°  | 293.9  | 292.4  | 295.4  | 293.9  | 296.8  | 302.7  | 301.3  | 305.7  | 310.1  | 310.1  | 311.6  |
| 70°    | 249.6  | 252.5  | 251.1  | 254.0  | 252.5  | 255.5  | 259.9  | 261.4  | 261.4  | 262.9  | 267.3  |
| 72.5°  | 208.2  | 208.2  | 208.2  | 206.8  | 208.2  | 211.2  | 214.1  | 215.6  | 218.6  | 220.0  | 224.5  |
| 75°    | 168.4  | 168.4  | 165.4  | 168.4  | 168.4  | 171.3  | 174.3  | 174.3  | 174.3  | 177.2  | 181.6  |
| 77.5°  | 127.0  | 128.5  | 127.0  | 130.0  | 130.0  | 131.4  | 134.4  | 132.9  | 135.9  | 137.3  | 138.8  |
| 80°    | 93.0   | 91.6   | 91.6   | 91.6   | 93.0   | 93.0   | 96.0   | 97.5   | 97.5   | 101.9  | 98.9   |
| 82.5°  | 59.1   | 60.5   | 59.1   | 60.5   | 60.5   | 62.0   | 60.5   | 62.0   | 63.5   | 66.5   | 65.0   |
| 85°    | 34.0   | 32.5   | 32.5   | 34.0   | 32.5   | 32.5   | 34.0   | 32.5   | 34.0   | 32.5   | 34.0   |
| 87.5°  | 13.3   | 11.8   | 11.8   | 11.8   | 11.8   | 10.3   | 10.3   | 8.9    | 8.9    | 8.9    | 7.4    |
| 90°    | 5.4    | 6.0    | 6.5    | 7.4    | 8.3    | 9.2    | 10.1   | 10.7   | 11.2   | 11.8   | 12.3   |
| 92.5°  | 10.8   | 10.6   | 10.8   | 11.1   | 11.4   | 11.8   | 12.1   | 12.3   | 12.5   | 12.8   | 13.0   |
| 95°    | 17.9   | 16.1   | 16.5   | 17.3   | 18.0   | 18.8   | 19.6   | 20.2   | 20.7   | 21.3   | 21.8   |
| 97.5°  | 22.2   | 17.6   | 18.5   | 20.3   | 22.0   | 23.8   | 25.6   | 25.9   | 26.3   | 26.6   | 26.9   |
| 100°   | 27.8   | 20.1   | 21.1   | 23.0   | 24.9   | 26.8   | 28.7   | 29.6   | 30.5   | 31.4   | 32.3   |
| 102.5° | 121.3  | 121.2  | 111.0  | 90.7   | 70.4   | 50.0   | 29.7   | 30.9   | 32.1   | 33.4   | 34.6   |
| 105°   | 166.2  | 167.9  | 152.7  | 122.2  | 91.7   | 61.2   | 30.7   | 31.9   | 33.1   | 34.4   | 35.6   |
| 107.5° | 199.7  | 201.1  | 182.3  | 144.6  | 107.0  | 69.3   | 31.7   | 32.9   | 34.1   | 35.4   | 36.6   |
| 110°   | 232.1  | 233.3  | 217.2  | 184.9  | 152.6  | 120.3  | 88.0   | 76.8   | 65.6   | 54.5   | 43.3   |

TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 262.9 | 263.9  | 263.0 | 261.1 | 259.2 | 257.3 | 255.4 | 207.2 | 159.1 | 110.9 | 62.8  |
| 115°   | 296.7 | 297.6  | 299.0 | 301.8 | 304.6 | 307.4 | 310.2 | 258.5 | 206.7 | 155.0 | 103.3 |
| 117.5° | 327.7 | 328.8  | 329.7 | 331.6 | 333.5 | 335.4 | 337.3 | 321.3 | 305.3 | 289.4 | 273.4 |
| 120°   | 358.6 | 359.4  | 360.4 | 362.4 | 364.5 | 366.5 | 368.5 | 369.8 | 371.2 | 372.5 | 373.8 |
| 122.5° | 387.2 | 388.1  | 389.2 | 391.5 | 393.7 | 396.0 | 398.2 | 398.9 | 399.5 | 400.2 | 400.9 |
| 125°   | 414.5 | 415.2  | 416.3 | 418.4 | 420.5 | 422.7 | 424.8 | 425.6 | 426.4 | 427.1 | 427.9 |
| 127.5° | 441.1 | 441.9  | 442.7 | 444.4 | 446.1 | 447.7 | 449.4 | 450.5 | 451.7 | 452.8 | 453.9 |
| 130°   | 466.6 | 467.5  | 468.1 | 469.4 | 470.6 | 471.9 | 473.1 | 474.3 | 475.5 | 476.8 | 478.0 |
| 132.5° | 490.5 | 491.2  | 491.8 | 493.0 | 494.3 | 495.5 | 496.7 | 497.7 | 498.7 | 499.7 | 500.7 |
| 135°   | 512.9 | 513.8  | 514.3 | 515.3 | 516.3 | 517.3 | 518.3 | 519.4 | 520.5 | 521.6 | 522.7 |
| 137.5° | 533.2 | 533.9  | 534.5 | 535.6 | 536.7 | 537.8 | 538.9 | 540.0 | 541.1 | 542.2 | 543.3 |
| 140°   | 553.1 | 553.5  | 554.1 | 555.3 | 556.6 | 557.8 | 559.0 | 560.0 | 561.0 | 562.0 | 563.0 |
| 142.5° | 570.7 | 571.1  | 571.8 | 573.3 | 574.7 | 576.2 | 577.6 | 578.5 | 579.4 | 580.3 | 581.2 |
| 145°   | 586.3 | 586.2  | 587.1 | 589.0 | 590.9 | 592.8 | 594.7 | 595.5 | 596.3 | 597.0 | 597.8 |
| 147.5° | 602.0 | 601.8  | 602.7 | 604.6 | 606.5 | 608.4 | 610.3 | 610.9 | 611.4 | 612.0 | 612.5 |
| 150°   | 616.2 | 615.8  | 616.7 | 618.5 | 620.3 | 622.1 | 623.9 | 624.6 | 625.2 | 625.9 | 626.6 |
| 152.5° | 629.3 | 628.9  | 629.7 | 631.4 | 633.1 | 634.7 | 636.4 | 637.1 | 637.8 | 638.5 | 639.2 |
| 155°   | 642.0 | 641.5  | 642.2 | 643.5 | 644.8 | 646.2 | 647.5 | 648.2 | 648.8 | 649.5 | 650.2 |
| 157.5° | 652.9 | 652.5  | 653.0 | 654.0 | 655.1 | 656.1 | 657.1 | 657.9 | 658.7 | 659.4 | 660.2 |
| 160°   | 662.9 | 662.6  | 662.9 | 663.6 | 664.3 | 664.9 | 665.6 | 666.3 | 666.9 | 667.6 | 668.3 |
| 162.5° | 670.9 | 670.6  | 670.9 | 671.4 | 672.0 | 672.5 | 673.1 | 673.9 | 674.7 | 675.5 | 676.3 |
| 165°   | 678.0 | 677.7  | 677.9 | 678.2 | 678.5 | 678.9 | 679.2 | 680.0 | 680.8 | 681.5 | 682.3 |
| 167.5° | 683.5 | 683.2  | 683.4 | 683.7 | 684.0 | 684.4 | 684.7 | 685.5 | 686.3 | 687.0 | 687.8 |
| 170°   | 688.0 | 687.7  | 687.8 | 688.0 | 688.3 | 688.5 | 688.7 | 689.5 | 690.3 | 691.0 | 691.8 |
| 172.5° | 691.0 | 690.7  | 690.8 | 691.0 | 691.3 | 691.5 | 691.7 | 692.5 | 693.3 | 694.1 | 694.9 |
| 175°   | 693.1 | 692.7  | 692.8 | 693.0 | 693.3 | 693.5 | 693.7 | 694.5 | 695.3 | 696.1 | 696.9 |
| 177.5° | 694.1 | 693.7  | 693.8 | 693.9 | 694.0 | 694.2 | 694.3 | 695.1 | 695.9 | 696.6 | 697.4 |
| 180°   | 694.8 | 694.8  | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 |



TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1831.2 | 1835.7 | 1825.3 | 1822.4 | 1825.3 | 1815.0 | 1817.9 | 1820.9 | 1820.9 | 1825.3 | 1828.3 |
| 5°     | 1724.9 | 1719.0 | 1708.7 | 1705.7 | 1702.7 | 1707.2 | 1704.2 | 1708.7 | 1710.1 | 1720.5 | 1721.9 |
| 7.5°   | 1620.0 | 1611.2 | 1602.3 | 1593.5 | 1590.5 | 1583.1 | 1590.5 | 1590.5 | 1600.8 | 1597.9 | 1605.3 |
| 10°    | 1496.0 | 1494.5 | 1482.7 | 1478.3 | 1472.4 | 1460.6 | 1476.8 | 1472.4 | 1479.8 | 1493.0 | 1496.0 |
| 12.5°  | 1404.4 | 1388.2 | 1395.6 | 1374.9 | 1382.3 | 1370.5 | 1371.9 | 1371.9 | 1383.8 | 1385.2 | 1382.3 |
| 15°    | 1317.3 | 1304.0 | 1284.8 | 1276.0 | 1271.5 | 1265.6 | 1284.8 | 1286.3 | 1277.4 | 1298.1 | 1290.7 |
| 17.5°  | 1228.7 | 1228.7 | 1211.0 | 1206.5 | 1194.7 | 1200.6 | 1197.7 | 1199.2 | 1196.2 | 1211.0 | 1218.4 |
| 20°    | 1151.9 | 1144.5 | 1138.6 | 1140.1 | 1125.3 | 1122.4 | 1119.4 | 1122.4 | 1132.7 | 1143.0 | 1146.0 |
| 22.5°  | 1089.9 | 1085.4 | 1070.7 | 1073.6 | 1061.8 | 1066.2 | 1063.3 | 1070.7 | 1072.2 | 1072.2 | 1082.5 |
| 25°    | 1030.8 | 1024.9 | 1026.4 | 1020.5 | 1016.0 | 1016.0 | 1011.6 | 1016.0 | 1021.9 | 1024.9 | 1026.4 |
| 27.5°  | 986.5  | 982.1  | 974.7  | 970.3  | 973.2  | 965.8  | 971.7  | 976.2  | 976.2  | 973.2  | 976.2  |
| 30°    | 933.3  | 936.3  | 936.3  | 921.5  | 927.4  | 924.5  | 928.9  | 931.9  | 931.9  | 933.3  | 930.4  |
| 32.5°  | 897.9  | 889.0  | 887.6  | 886.1  | 886.1  | 880.2  | 880.2  | 884.6  | 886.1  | 887.6  | 892.0  |
| 35°    | 850.6  | 850.6  | 843.3  | 847.7  | 841.8  | 843.3  | 841.8  | 843.3  | 846.2  | 841.8  | 846.2  |
| 37.5°  | 807.8  | 809.3  | 806.3  | 809.3  | 810.8  | 807.8  | 804.9  | 810.8  | 807.8  | 807.8  | 804.9  |
| 40°    | 770.9  | 769.4  | 770.9  | 770.9  | 770.9  | 772.4  | 769.4  | 769.4  | 769.4  | 766.5  | 763.5  |
| 42.5°  | 739.9  | 731.0  | 734.0  | 735.4  | 731.0  | 731.0  | 732.5  | 731.0  | 735.4  | 726.6  | 726.6  |
| 45°    | 695.6  | 692.6  | 694.1  | 694.1  | 697.0  | 692.6  | 695.6  | 697.0  | 692.6  | 691.1  | 688.2  |
| 47.5°  | 655.7  | 658.7  | 655.7  | 658.7  | 658.7  | 661.6  | 655.7  | 657.2  | 658.7  | 652.7  | 648.3  |
| 50°    | 615.8  | 615.8  | 620.3  | 618.8  | 620.3  | 617.3  | 617.3  | 615.8  | 617.3  | 614.3  | 609.9  |
| 52.5°  | 578.9  | 574.5  | 581.9  | 580.4  | 578.9  | 577.4  | 576.0  | 577.4  | 574.5  | 571.5  | 571.5  |
| 55°    | 533.1  | 533.1  | 537.6  | 539.0  | 539.0  | 536.1  | 533.1  | 534.6  | 533.1  | 531.6  | 530.2  |
| 57.5°  | 496.2  | 490.3  | 493.3  | 494.7  | 494.7  | 490.3  | 493.3  | 490.3  | 490.3  | 491.8  | 487.3  |
| 60°    | 448.9  | 448.9  | 446.0  | 450.4  | 450.4  | 447.5  | 447.5  | 448.9  | 446.0  | 444.5  | 443.0  |
| 62.5°  | 398.7  | 400.2  | 404.6  | 406.1  | 407.6  | 404.6  | 401.7  | 403.2  | 403.2  | 398.7  | 400.2  |
| 65°    | 355.9  | 358.9  | 364.8  | 363.3  | 360.3  | 361.8  | 358.9  | 360.3  | 355.9  | 357.4  | 353.0  |
| 67.5°  | 314.6  | 313.1  | 314.6  | 314.6  | 317.5  | 316.0  | 313.1  | 313.1  | 311.6  | 316.0  | 311.6  |
| 70°    | 270.3  | 270.3  | 270.3  | 270.3  | 271.7  | 273.2  | 270.3  | 267.3  | 268.8  | 265.8  | 264.3  |
| 72.5°  | 224.5  | 225.9  | 224.5  | 227.4  | 223.0  | 225.9  | 225.9  | 224.5  | 223.0  | 223.0  | 223.0  |
| 75°    | 181.6  | 184.6  | 180.2  | 181.6  | 180.2  | 183.1  | 181.6  | 181.6  | 178.7  | 177.2  | 178.7  |
| 77.5°  | 138.8  | 140.3  | 137.3  | 138.8  | 137.3  | 138.8  | 138.8  | 137.3  | 137.3  | 137.3  | 137.3  |
| 80°    | 98.9   | 100.4  | 98.9   | 97.5   | 96.0   | 98.9   | 96.0   | 97.5   | 98.9   | 97.5   | 100.4  |
| 82.5°  | 63.5   | 63.5   | 62.0   | 63.5   | 60.5   | 60.5   | 62.0   | 62.0   | 60.5   | 63.5   | 60.5   |
| 85°    | 31.0   | 31.0   | 34.0   | 31.0   | 29.5   | 29.5   | 29.5   | 31.0   | 29.5   | 32.5   | 31.0   |
| 87.5°  | 7.4    | 5.9    | 7.4    | 7.4    | 5.9    | 5.9    | 7.4    | 5.9    | 7.4    | 8.9    | 5.9    |
| 90°    | 12.6   | 12.7   | 12.9   | 13.2   | 13.4   | 13.6   | 13.4   | 13.2   | 12.9   | 12.7   | 12.6   |
| 92.5°  | 13.1   | 13.2   | 13.3   | 13.4   | 13.5   | 13.6   | 13.5   | 13.4   | 13.3   | 13.2   | 13.1   |
| 95°    | 22.1   | 22.0   | 21.9   | 21.8   | 21.7   | 21.6   | 21.7   | 21.8   | 21.9   | 22.0   | 22.1   |
| 97.5°  | 27.1   | 27.2   | 27.3   | 27.4   | 27.5   | 27.6   | 27.5   | 27.4   | 27.3   | 27.2   | 27.1   |
| 100°   | 32.7   | 32.8   | 33.0   | 33.3   | 33.5   | 33.7   | 33.5   | 33.3   | 33.0   | 32.8   | 32.7   |
| 102.5° | 35.2   | 35.4   | 35.7   | 36.0   | 36.4   | 36.7   | 36.4   | 36.0   | 35.7   | 35.4   | 35.2   |
| 105°   | 36.2   | 36.4   | 36.9   | 37.3   | 37.8   | 38.2   | 37.8   | 37.3   | 36.9   | 36.4   | 36.2   |
| 107.5° | 37.2   | 37.4   | 37.9   | 38.3   | 38.8   | 39.2   | 38.8   | 38.3   | 37.9   | 37.4   | 37.2   |
| 110°   | 37.7   | 37.9   | 38.4   | 38.8   | 39.3   | 39.7   | 39.3   | 38.8   | 38.4   | 37.9   | 37.7   |



TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 38.7   | 38.9  | 39.2  | 39.5  | 39.9  | 40.2  | 39.9  | 39.5  | 39.2  | 38.9  | 38.7   |
| 115°   | 77.4   | 73.4  | 65.3  | 57.3  | 49.2  | 41.2  | 49.2  | 57.3  | 65.3  | 73.4  | 77.4   |
| 117.5° | 265.4  | 250.8 | 221.5 | 192.2 | 163.0 | 133.7 | 163.0 | 192.2 | 221.5 | 250.8 | 265.4  |
| 120°   | 374.5  | 367.0 | 351.9 | 336.8 | 321.8 | 306.7 | 321.8 | 336.8 | 351.9 | 367.0 | 374.5  |
| 122.5° | 401.2  | 401.3 | 401.4 | 401.5 | 401.6 | 401.7 | 401.6 | 401.5 | 401.4 | 401.3 | 401.2  |
| 125°   | 428.3  | 428.5 | 428.8 | 429.1 | 429.5 | 429.8 | 429.5 | 429.1 | 428.8 | 428.5 | 428.3  |
| 127.5° | 454.5  | 454.6 | 454.7 | 454.8 | 454.9 | 455.0 | 454.9 | 454.8 | 454.7 | 454.6 | 454.5  |
| 130°   | 478.6  | 478.5 | 478.4 | 478.3 | 478.2 | 478.1 | 478.2 | 478.3 | 478.4 | 478.5 | 478.6  |
| 132.5° | 501.2  | 501.1 | 501.0 | 500.9 | 500.8 | 500.7 | 500.8 | 500.9 | 501.0 | 501.1 | 501.2  |
| 135°   | 523.3  | 523.2 | 523.0 | 522.7 | 522.5 | 522.3 | 522.5 | 522.7 | 523.0 | 523.2 | 523.3  |
| 137.5° | 543.9  | 543.7 | 543.4 | 543.1 | 542.7 | 542.4 | 542.7 | 543.1 | 543.4 | 543.7 | 543.9  |
| 140°   | 563.5  | 563.2 | 562.7 | 562.1 | 561.6 | 561.0 | 561.6 | 562.1 | 562.7 | 563.2 | 563.5  |
| 142.5° | 581.6  | 581.3 | 580.8 | 580.2 | 579.7 | 579.1 | 579.7 | 580.2 | 580.8 | 581.3 | 581.6  |
| 145°   | 598.2  | 597.9 | 597.4 | 596.8 | 596.3 | 595.7 | 596.3 | 596.8 | 597.4 | 597.9 | 598.2  |
| 147.5° | 612.8  | 612.6 | 612.1 | 611.7 | 611.2 | 610.8 | 611.2 | 611.7 | 612.1 | 612.6 | 612.8  |
| 150°   | 626.9  | 626.6 | 626.1 | 625.5 | 625.0 | 624.4 | 625.0 | 625.5 | 626.1 | 626.6 | 626.9  |
| 152.5° | 639.5  | 639.1 | 638.3 | 637.5 | 636.7 | 635.9 | 636.7 | 637.5 | 638.3 | 639.1 | 639.5  |
| 155°   | 650.5  | 650.1 | 649.2 | 648.3 | 647.4 | 646.5 | 647.4 | 648.3 | 649.2 | 650.1 | 650.5  |
| 157.5° | 660.6  | 660.1 | 659.2 | 658.3 | 657.4 | 656.5 | 657.4 | 658.3 | 659.2 | 660.1 | 660.6  |
| 160°   | 668.6  | 668.2 | 667.4 | 666.7 | 665.9 | 665.1 | 665.9 | 666.7 | 667.4 | 668.2 | 668.6  |
| 162.5° | 676.7  | 676.2 | 675.2 | 674.1 | 673.1 | 672.1 | 673.1 | 674.1 | 675.2 | 676.2 | 676.7  |
| 165°   | 682.7  | 682.3 | 681.5 | 680.8 | 680.0 | 679.2 | 680.0 | 680.8 | 681.5 | 682.3 | 682.7  |
| 167.5° | 688.2  | 687.7 | 686.7 | 685.7 | 684.7 | 683.7 | 684.7 | 685.7 | 686.7 | 687.7 | 688.2  |
| 170°   | 692.2  | 691.7 | 690.7 | 689.7 | 688.7 | 687.7 | 688.7 | 689.7 | 690.7 | 691.7 | 692.2  |
| 172.5° | 695.3  | 694.8 | 693.8 | 692.7 | 691.7 | 690.7 | 691.7 | 692.7 | 693.8 | 694.8 | 695.3  |
| 175°   | 697.3  | 696.7 | 695.6 | 694.5 | 693.3 | 692.2 | 693.3 | 694.5 | 695.6 | 696.7 | 697.3  |
| 177.5° | 697.8  | 697.3 | 696.3 | 695.2 | 694.2 | 693.2 | 694.2 | 695.2 | 696.3 | 697.3 | 697.8  |
| 180°   | 694.8  | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8  |

TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1823.8 | 1835.7 | 1831.2 | 1815.0 | 1834.2 | 1834.2 | 1847.5 | 1847.5 | 1863.7 | 1869.6 | 1878.5 |
| 5°     | 1720.5 | 1729.3 | 1736.7 | 1729.3 | 1742.6 | 1763.3 | 1775.1 | 1785.4 | 1807.6 | 1816.5 | 1829.8 |
| 7.5°   | 1609.7 | 1626.0 | 1633.3 | 1633.3 | 1655.5 | 1679.1 | 1702.7 | 1717.5 | 1748.5 | 1760.3 | 1773.6 |
| 10°    | 1501.9 | 1521.1 | 1535.9 | 1534.4 | 1571.3 | 1586.1 | 1615.6 | 1649.6 | 1680.6 | 1698.3 | 1717.5 |
| 12.5°  | 1388.2 | 1398.5 | 1419.2 | 1448.7 | 1457.6 | 1484.2 | 1518.1 | 1561.0 | 1617.1 | 1633.3 | 1661.4 |
| 15°    | 1293.7 | 1321.7 | 1338.0 | 1351.3 | 1371.9 | 1397.0 | 1434.0 | 1475.3 | 1531.4 | 1566.9 | 1596.4 |
| 17.5°  | 1213.9 | 1250.8 | 1261.2 | 1258.2 | 1284.8 | 1323.2 | 1366.0 | 1397.0 | 1447.3 | 1490.1 | 1518.1 |
| 20°    | 1148.9 | 1163.7 | 1181.4 | 1188.8 | 1209.5 | 1250.8 | 1292.2 | 1327.6 | 1369.0 | 1403.0 | 1435.4 |
| 22.5°  | 1084.0 | 1095.8 | 1110.6 | 1123.8 | 1140.1 | 1163.7 | 1203.6 | 1247.9 | 1287.8 | 1320.3 | 1357.2 |
| 25°    | 1030.8 | 1038.2 | 1051.5 | 1061.8 | 1079.5 | 1095.8 | 1123.8 | 1172.6 | 1219.8 | 1239.0 | 1271.5 |
| 27.5°  | 979.1  | 985.0  | 993.9  | 1005.7 | 1014.6 | 1030.8 | 1055.9 | 1095.8 | 1144.5 | 1163.7 | 1208.0 |
| 30°    | 933.3  | 937.8  | 946.6  | 952.5  | 957.0  | 976.2  | 995.4  | 1026.4 | 1063.3 | 1089.9 | 1122.4 |
| 32.5°  | 890.5  | 894.9  | 903.8  | 905.3  | 911.2  | 921.5  | 939.2  | 967.3  | 999.8  | 1021.9 | 1050.0 |
| 35°    | 843.3  | 846.2  | 855.1  | 858.0  | 862.4  | 871.3  | 884.6  | 905.3  | 934.8  | 951.1  | 976.2  |
| 37.5°  | 806.3  | 804.9  | 810.8  | 815.2  | 821.1  | 825.5  | 830.0  | 850.6  | 872.8  | 887.6  | 906.8  |
| 40°    | 766.5  | 763.5  | 765.0  | 770.9  | 773.8  | 779.7  | 779.7  | 800.4  | 815.2  | 827.0  | 841.8  |
| 42.5°  | 726.6  | 725.1  | 722.2  | 725.1  | 728.1  | 729.5  | 731.0  | 745.8  | 760.6  | 770.9  | 787.1  |
| 45°    | 686.7  | 685.2  | 682.3  | 683.8  | 683.8  | 686.7  | 691.1  | 697.0  | 707.4  | 716.2  | 725.1  |
| 47.5°  | 649.8  | 646.8  | 642.4  | 640.9  | 643.9  | 643.9  | 643.9  | 649.8  | 660.1  | 663.1  | 671.9  |
| 50°    | 611.4  | 607.0  | 601.1  | 598.1  | 598.1  | 596.6  | 599.6  | 601.1  | 609.9  | 612.9  | 620.3  |
| 52.5°  | 570.0  | 567.1  | 561.2  | 555.3  | 556.8  | 553.8  | 555.3  | 556.8  | 559.7  | 564.1  | 568.6  |
| 55°    | 528.7  | 522.8  | 518.4  | 516.9  | 512.4  | 512.4  | 508.0  | 513.9  | 512.4  | 513.9  | 519.8  |
| 57.5°  | 488.8  | 482.9  | 475.5  | 472.6  | 468.1  | 466.7  | 463.7  | 462.2  | 463.7  | 468.1  | 472.6  |
| 60°    | 441.6  | 438.6  | 434.2  | 429.7  | 426.8  | 422.4  | 419.4  | 419.4  | 417.9  | 417.9  | 419.4  |
| 62.5°  | 395.8  | 394.3  | 388.4  | 386.9  | 384.0  | 381.0  | 376.6  | 373.6  | 373.6  | 376.6  | 378.1  |
| 65°    | 351.5  | 350.0  | 345.6  | 344.1  | 336.7  | 333.8  | 332.3  | 330.8  | 327.8  | 327.8  | 327.8  |
| 67.5°  | 310.1  | 305.7  | 305.7  | 298.3  | 292.4  | 289.5  | 286.5  | 285.0  | 285.0  | 285.0  | 286.5  |
| 70°    | 264.3  | 264.3  | 259.9  | 255.5  | 249.6  | 251.1  | 246.6  | 242.2  | 242.2  | 239.2  | 240.7  |
| 72.5°  | 220.0  | 218.6  | 214.1  | 212.7  | 208.2  | 203.8  | 200.8  | 203.8  | 199.4  | 197.9  | 199.4  |
| 75°    | 177.2  | 175.7  | 172.8  | 169.8  | 171.3  | 166.9  | 162.4  | 161.0  | 161.0  | 158.0  | 158.0  |
| 77.5°  | 135.9  | 138.8  | 132.9  | 131.4  | 128.5  | 125.5  | 124.1  | 122.6  | 122.6  | 122.6  | 125.5  |
| 80°    | 94.5   | 96.0   | 96.0   | 93.0   | 94.5   | 90.1   | 90.1   | 90.1   | 85.7   | 87.1   | 88.6   |
| 82.5°  | 60.5   | 60.5   | 59.1   | 60.5   | 59.1   | 59.1   | 57.6   | 57.6   | 56.1   | 56.1   | 57.6   |
| 85°    | 34.0   | 32.5   | 31.0   | 34.0   | 32.5   | 32.5   | 31.0   | 31.0   | 31.0   | 31.0   | 31.0   |
| 87.5°  | 7.4    | 8.9    | 8.9    | 8.9    | 8.9    | 10.3   | 10.3   | 10.3   | 11.8   | 11.8   | 11.8   |
| 90°    | 12.3   | 11.8   | 11.2   | 10.7   | 10.1   | 9.2    | 8.3    | 7.4    | 6.5    | 6.0    | 5.4    |
| 92.5°  | 13.0   | 12.8   | 12.5   | 12.3   | 12.1   | 11.8   | 11.4   | 11.1   | 10.8   | 10.6   | 10.8   |
| 95°    | 21.8   | 21.3   | 20.7   | 20.2   | 19.6   | 18.8   | 18.0   | 17.3   | 16.5   | 16.1   | 17.9   |
| 97.5°  | 26.9   | 26.6   | 26.3   | 25.9   | 25.6   | 23.8   | 22.0   | 20.3   | 18.5   | 17.6   | 22.2   |
| 100°   | 32.3   | 31.4   | 30.5   | 29.6   | 28.7   | 26.8   | 24.9   | 23.0   | 21.1   | 20.1   | 27.8   |
| 102.5° | 34.6   | 33.4   | 32.1   | 30.9   | 29.7   | 50.0   | 70.4   | 90.7   | 111.0  | 121.2  | 121.3  |
| 105°   | 35.6   | 34.4   | 33.1   | 31.9   | 30.7   | 61.2   | 91.7   | 122.2  | 152.7  | 167.9  | 166.2  |
| 107.5° | 36.6   | 35.4   | 34.1   | 32.9   | 31.7   | 69.3   | 107.0  | 144.6  | 182.3  | 201.1  | 199.7  |
| 110°   | 43.3   | 54.5   | 65.6   | 76.8   | 88.0   | 120.3  | 152.6  | 184.9  | 217.2  | 233.3  | 232.1  |

TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 62.8  | 110.9 | 159.1 | 207.2 | 255.4 | 257.3 | 259.2 | 261.1 | 263.0 | 263.9  | 262.9 |
| 115°   | 103.3 | 155.0 | 206.7 | 258.5 | 310.2 | 307.4 | 304.6 | 301.8 | 299.0 | 297.6  | 296.7 |
| 117.5° | 273.4 | 289.4 | 305.3 | 321.3 | 337.3 | 335.4 | 333.5 | 331.6 | 329.7 | 328.8  | 327.7 |
| 120°   | 373.8 | 372.5 | 371.2 | 369.8 | 368.5 | 366.5 | 364.5 | 362.4 | 360.4 | 359.4  | 358.6 |
| 122.5° | 400.9 | 400.2 | 399.5 | 398.9 | 398.2 | 396.0 | 393.7 | 391.5 | 389.2 | 388.1  | 387.2 |
| 125°   | 427.9 | 427.1 | 426.4 | 425.6 | 424.8 | 422.7 | 420.5 | 418.4 | 416.3 | 415.2  | 414.5 |
| 127.5° | 453.9 | 452.8 | 451.7 | 450.5 | 449.4 | 447.7 | 446.1 | 444.4 | 442.7 | 441.9  | 441.1 |
| 130°   | 478.0 | 476.8 | 475.5 | 474.3 | 473.1 | 471.9 | 470.6 | 469.4 | 468.1 | 467.5  | 466.6 |
| 132.5° | 500.7 | 499.7 | 498.7 | 497.7 | 496.7 | 495.5 | 494.3 | 493.0 | 491.8 | 491.2  | 490.5 |
| 135°   | 522.7 | 521.6 | 520.5 | 519.4 | 518.3 | 517.3 | 516.3 | 515.3 | 514.3 | 513.8  | 512.9 |
| 137.5° | 543.3 | 542.2 | 541.1 | 540.0 | 538.9 | 537.8 | 536.7 | 535.6 | 534.5 | 533.9  | 533.2 |
| 140°   | 563.0 | 562.0 | 561.0 | 560.0 | 559.0 | 557.8 | 556.6 | 555.3 | 554.1 | 553.5  | 553.1 |
| 142.5° | 581.2 | 580.3 | 579.4 | 578.5 | 577.6 | 576.2 | 574.7 | 573.3 | 571.8 | 571.1  | 570.7 |
| 145°   | 597.8 | 597.0 | 596.3 | 595.5 | 594.7 | 592.8 | 590.9 | 589.0 | 587.1 | 586.2  | 586.3 |
| 147.5° | 612.5 | 612.0 | 611.4 | 610.9 | 610.3 | 608.4 | 606.5 | 604.6 | 602.7 | 601.8  | 602.0 |
| 150°   | 626.6 | 625.9 | 625.2 | 624.6 | 623.9 | 622.1 | 620.3 | 618.5 | 616.7 | 615.8  | 616.2 |
| 152.5° | 639.2 | 638.5 | 637.8 | 637.1 | 636.4 | 634.7 | 633.1 | 631.4 | 629.7 | 628.9  | 629.3 |
| 155°   | 650.2 | 649.5 | 648.8 | 648.2 | 647.5 | 646.2 | 644.8 | 643.5 | 642.2 | 641.5  | 642.0 |
| 157.5° | 660.2 | 659.4 | 658.7 | 657.9 | 657.1 | 656.1 | 655.1 | 654.0 | 653.0 | 652.5  | 652.9 |
| 160°   | 668.3 | 667.6 | 666.9 | 666.3 | 665.6 | 664.9 | 664.3 | 663.6 | 662.9 | 662.6  | 662.9 |
| 162.5° | 676.3 | 675.5 | 674.7 | 673.9 | 673.1 | 672.5 | 672.0 | 671.4 | 670.9 | 670.6  | 670.9 |
| 165°   | 682.3 | 681.5 | 680.8 | 680.0 | 679.2 | 678.9 | 678.5 | 678.2 | 677.9 | 677.7  | 678.0 |
| 167.5° | 687.8 | 687.0 | 686.3 | 685.5 | 684.7 | 684.4 | 684.0 | 683.7 | 683.4 | 683.2  | 683.5 |
| 170°   | 691.8 | 691.0 | 690.3 | 689.5 | 688.7 | 688.5 | 688.3 | 688.0 | 687.8 | 687.7  | 688.0 |
| 172.5° | 694.9 | 694.1 | 693.3 | 692.5 | 691.7 | 691.5 | 691.3 | 691.0 | 690.8 | 690.7  | 691.0 |
| 175°   | 696.9 | 696.1 | 695.3 | 694.5 | 693.7 | 693.5 | 693.3 | 693.0 | 692.8 | 692.7  | 693.1 |
| 177.5° | 697.4 | 696.6 | 695.9 | 695.1 | 694.3 | 694.2 | 694.0 | 693.9 | 693.8 | 693.7  | 694.1 |
| 180°   | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 | 694.8  | 694.8 |

TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1921.3 | 1921.3 | 1921.3 | 1921.3 |
| 2.5°   | 1885.9 | 1885.9 | 1908.0 | 1931.6 |
| 5°     | 1844.5 | 1854.9 | 1890.3 | 1922.8 |
| 7.5°   | 1804.6 | 1822.4 | 1866.7 | 1908.0 |
| 10°    | 1755.9 | 1779.5 | 1834.2 | 1882.9 |
| 12.5°  | 1708.7 | 1730.8 | 1794.3 | 1848.9 |
| 15°    | 1642.2 | 1670.3 | 1738.2 | 1806.1 |
| 17.5°  | 1575.7 | 1603.8 | 1686.5 | 1766.2 |
| 20°    | 1497.5 | 1534.4 | 1627.4 | 1733.8 |
| 22.5°  | 1425.1 | 1470.9 | 1574.3 | 1659.9 |
| 25°    | 1345.4 | 1416.2 | 1512.2 | 1623.0 |
| 27.5°  | 1274.5 | 1345.4 | 1442.8 | 1555.1 |
| 30°    | 1194.7 | 1267.1 | 1367.5 | 1470.9 |
| 32.5°  | 1117.9 | 1184.4 | 1281.9 | 1408.9 |
| 35°    | 1038.2 | 1101.7 | 1196.2 | 1324.7 |
| 37.5°  | 965.8  | 1027.9 | 1131.2 | 1249.4 |
| 40°    | 894.9  | 959.9  | 1048.5 | 1166.7 |
| 42.5°  | 828.5  | 886.1  | 965.8  | 1084.0 |
| 45°    | 767.9  | 809.3  | 883.1  | 993.9  |
| 47.5°  | 704.4  | 741.4  | 809.3  | 920.0  |
| 50°    | 645.4  | 676.4  | 735.4  | 838.8  |
| 52.5°  | 587.8  | 614.3  | 669.0  | 751.7  |
| 55°    | 536.1  | 561.2  | 601.1  | 682.3  |
| 57.5°  | 482.9  | 502.1  | 540.5  | 605.5  |
| 60°    | 431.2  | 448.9  | 480.0  | 533.1  |
| 62.5°  | 379.5  | 394.3  | 423.8  | 466.7  |
| 65°    | 333.8  | 345.6  | 367.7  | 404.6  |
| 67.5°  | 289.5  | 296.8  | 314.6  | 344.1  |
| 70°    | 246.6  | 252.5  | 267.3  | 290.9  |
| 72.5°  | 200.8  | 206.8  | 223.0  | 239.2  |
| 75°    | 162.4  | 163.9  | 175.7  | 189.0  |
| 77.5°  | 127.0  | 125.5  | 134.4  | 144.7  |
| 80°    | 87.1   | 91.6   | 98.9   | 103.4  |
| 82.5°  | 59.1   | 60.5   | 63.5   | 66.5   |
| 85°    | 32.5   | 34.0   | 34.0   | 38.4   |
| 87.5°  | 13.3   | 14.8   | 14.8   | 16.2   |
| 90°    | 4.2    | 2.9    | 1.7    | 0.5    |
| 92.5°  | 11.3   | 11.7   | 12.2   | 12.6   |
| 95°    | 21.6   | 25.3   | 29.0   | 32.7   |
| 97.5°  | 31.3   | 40.5   | 49.6   | 58.8   |
| 100°   | 43.1   | 58.4   | 73.7   | 89.0   |
| 102.5° | 121.5  | 121.8  | 122.0  | 122.2  |
| 105°   | 162.9  | 159.5  | 156.2  | 152.8  |
| 107.5° | 196.9  | 194.1  | 191.3  | 188.5  |
| 110°   | 229.8  | 227.4  | 225.1  | 222.7  |



TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 260.9 | 258.9 | 256.9 | 254.9 |
| 115°   | 294.8 | 292.9 | 291.0 | 289.1 |
| 117.5° | 325.4 | 323.2 | 320.9 | 318.7 |
| 120°   | 356.9 | 355.2 | 353.6 | 351.9 |
| 122.5° | 385.4 | 383.7 | 381.9 | 380.1 |
| 125°   | 413.0 | 411.6 | 410.1 | 408.7 |
| 127.5° | 439.6 | 438.0 | 436.5 | 434.9 |
| 130°   | 464.8 | 463.1 | 461.3 | 459.5 |
| 132.5° | 489.0 | 487.5 | 486.1 | 484.6 |
| 135°   | 511.1 | 509.3 | 507.5 | 505.7 |
| 137.5° | 531.9 | 530.6 | 529.2 | 527.9 |
| 140°   | 552.2 | 551.3 | 550.4 | 549.5 |
| 142.5° | 569.9 | 569.2 | 568.4 | 567.6 |
| 145°   | 586.4 | 586.5 | 586.6 | 586.7 |
| 147.5° | 602.3 | 602.6 | 603.0 | 603.3 |
| 150°   | 617.0 | 617.7 | 618.5 | 619.3 |
| 152.5° | 630.2 | 631.1 | 632.0 | 632.9 |
| 155°   | 643.0 | 644.0 | 645.0 | 646.0 |
| 157.5° | 653.8 | 654.7 | 655.6 | 656.5 |
| 160°   | 663.6 | 664.3 | 664.9 | 665.6 |
| 162.5° | 671.6 | 672.3 | 672.9 | 673.6 |
| 165°   | 678.7 | 679.4 | 680.0 | 680.7 |
| 167.5° | 684.2 | 684.9 | 685.5 | 686.2 |
| 170°   | 688.7 | 689.4 | 690.0 | 690.7 |
| 172.5° | 691.7 | 692.4 | 693.0 | 693.7 |
| 175°   | 693.9 | 694.7 | 695.5 | 696.3 |
| 177.5° | 694.9 | 695.7 | 696.5 | 697.3 |
| 180°   | 694.8 | 694.8 | 694.8 | 694.8 |

TEST NUMBER: P997914

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_5000K

**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 | 19.21            | 20.20 | 20.01 | 21.02 | 22.02 | 16.70          | 17.70 | 17.50 | 18.51 | 19.51 |
|                 | 3H   | 20.03            | 20.92 | 20.84 | 21.75 | 22.78 | 18.06          | 18.95 | 18.87 | 19.77 | 20.80 |
|                 | 4H   | 20.21            | 21.05 | 21.04 | 21.88 | 22.92 | 18.53          | 19.37 | 19.36 | 20.20 | 21.24 |
|                 | 6H   | 20.26            | 21.03 | 21.10 | 21.87 | 22.92 | 18.84          | 19.61 | 19.68 | 20.45 | 21.51 |
|                 | 8H   | 20.24            | 20.98 | 21.09 | 21.84 | 22.89 | 18.93          | 19.66 | 19.78 | 20.52 | 21.57 |
|                 | 12H  | 20.21            | 20.91 | 21.06 | 21.76 | 22.84 | 18.97          | 19.67 | 19.83 | 20.53 | 21.61 |
| 4H              | 2H   | 19.27            | 20.11 | 20.10 | 20.94 | 21.98 | 17.17          | 18.00 | 18.00 | 18.84 | 19.88 |
|                 | 3H   | 20.26            | 20.96 | 21.10 | 21.82 | 22.88 | 18.64          | 19.34 | 19.48 | 20.20 | 21.26 |
|                 | 4H   | 20.54            | 21.18 | 21.40 | 22.04 | 23.12 | 19.18          | 19.81 | 20.03 | 20.68 | 21.76 |
|                 | 6H   | 20.68            | 21.23 | 21.55 | 22.11 | 23.20 | 19.56          | 20.11 | 20.44 | 21.00 | 22.09 |
|                 | 8H   | 20.68            | 21.19 | 21.56 | 22.07 | 23.17 | 19.68          | 20.19 | 20.55 | 21.07 | 22.17 |
|                 | 12H  | 20.65            | 21.11 | 21.55 | 22.01 | 23.12 | 19.74          | 20.20 | 20.64 | 21.10 | 22.21 |
| 8H              | 4H   | 20.56            | 21.07 | 21.44 | 21.95 | 23.05 | 19.33          | 19.84 | 20.21 | 20.72 | 21.82 |
|                 | 6H   | 20.74            | 21.17 | 21.65 | 22.09 | 23.19 | 19.77          | 20.19 | 20.67 | 21.12 | 22.21 |
|                 | 8H   | 20.78            | 21.15 | 21.69 | 22.07 | 23.18 | 19.92          | 20.29 | 20.83 | 21.21 | 22.33 |
|                 | 12H  | 20.77            | 21.09 | 21.68 | 22.00 | 23.17 | 20.02          | 20.35 | 20.93 | 21.26 | 22.43 |
| 12H             | 4H   | 20.52            | 20.98 | 21.42 | 21.88 | 22.99 | 19.31          | 19.77 | 20.21 | 20.67 | 21.78 |
|                 | 6H   | 20.72            | 21.10 | 21.64 | 22.02 | 23.13 | 19.77          | 20.14 | 20.68 | 21.06 | 22.18 |
|                 | 8H   | 20.76            | 21.09 | 21.68 | 22.00 | 23.17 | 19.93          | 20.26 | 20.85 | 21.17 | 22.34 |