

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: P997913

Luminaire Tested: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997913  
REPORT IS A COMBINATION OF REPORTS P983650 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\_4000K  
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

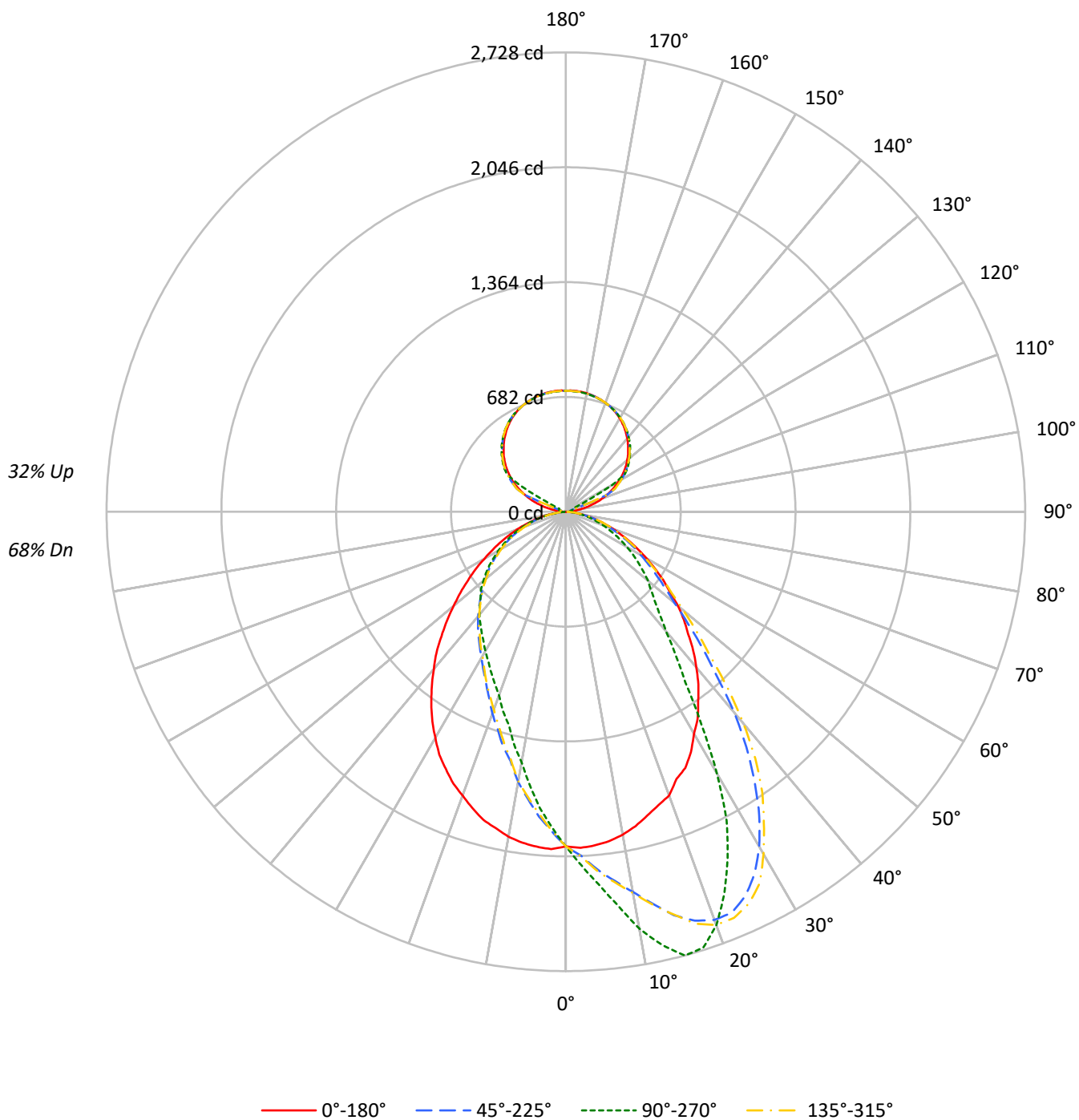
Lumens per Lamp: N/A  
Luminaire Lumens: 6492.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P997913

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

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

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

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32514 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.3  | 2.9       |
| 10°-20°   | 550.9  | 8.5       |
| 20°-30°   | 799.5  | 12.3      |
| 30°-40°   | 842.8  | 13.0      |
| 40°-50°   | 745.8  | 11.5      |
| 50°-60°   | 595.5  | 9.2       |
| 60°-70°   | 404.5  | 6.2       |
| 70°-80°   | 207.0  | 3.2       |
| 80°-90°   | 50.2   | 0.8       |
| 90°-100°  | 23.7   | 0.4       |
| 100°-110° | 88.3   | 1.4       |
| 110°-120° | 234.3  | 3.6       |
| 120°-130° | 388.6  | 6.0       |
| 130°-140° | 412.7  | 6.4       |
| 140°-150° | 383.6  | 5.9       |
| 150°-160° | 308.4  | 4.8       |
| 160°-170° | 198.7  | 3.1       |
| 170°-180° | 68.4   | 1.1       |
| 0°-30°    | 1539.6 | 23.7      |
| 0°-40°    | 2382.4 | 36.7      |
| 0°-60°    | 3723.7 | 57.4      |
| 0°-90°    | 4385.3 | 67.5      |
| 90°-120°  | 346.3  | 5.3       |
| 90°-150°  | 1531.2 | 23.6      |
| 90°-180°  | 2107.0 | 32.5      |
| 0°-180°   | 6492.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1987 | 1987 | 1987 | 1987 | 1987 |      |
| 5°   | 1989 | 2219 | 1996 | 1766 | 1989 | 189  |
| 15°  | 1868 | 2728 | 1894 | 1309 | 1868 | 528  |
| 25°  | 1678 | 2273 | 1686 | 1051 | 1678 | 767  |
| 35°  | 1370 | 1237 | 1393 | 872  | 1370 | 857  |
| 45°  | 1028 | 745  | 1045 | 716  | 1028 | 797  |
| 55°  | 706  | 524  | 710  | 554  | 706  | 630  |
| 65°  | 418  | 322  | 426  | 374  | 418  | 416  |
| 75°  | 196  | 159  | 203  | 189  | 196  | 210  |
| 85°  | 40   | 41   | 43   | 30   | 40   | 46   |
| 90°  | 0    | 14   | 0    | 14   | 0    | 4    |
| 95°  | 34   | 22   | 34   | 22   | 34   | 40   |
| 105° | 158  | 40   | 158  | 40   | 158  | 169  |
| 115° | 299  | 43   | 299  | 43   | 299  | 294  |
| 125° | 423  | 445  | 423  | 445  | 423  | 377  |
| 135° | 523  | 540  | 523  | 540  | 523  | 404  |
| 145° | 607  | 616  | 607  | 616  | 607  | 380  |
| 155° | 668  | 669  | 668  | 669  | 668  | 308  |
| 165° | 704  | 702  | 704  | 702  | 704  | 199  |
| 175° | 720  | 716  | 720  | 716  | 720  | 69   |
| 180° | 719  | 719  | 719  | 719  | 719  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1997.7 | 2002.3 | 2009.9 | 2011.5 | 2026.7 | 2039.0 | 2052.7 | 2052.7 | 2057.3 | 2055.8 | 2043.5 |
| 5°     | 1988.6 | 2002.3 | 2022.2 | 2039.0 | 2066.5 | 2078.7 | 2097.0 | 2110.7 | 2123.0 | 2132.1 | 2130.6 |
| 7.5°   | 1973.3 | 1997.7 | 2026.7 | 2058.8 | 2095.5 | 2116.9 | 2142.8 | 2167.3 | 2184.1 | 2199.3 | 2210.0 |
| 10°    | 1947.3 | 1988.6 | 2028.3 | 2071.0 | 2118.4 | 2147.4 | 2177.9 | 2210.0 | 2236.0 | 2265.0 | 2292.5 |
| 12.5°  | 1912.2 | 1971.8 | 2020.6 | 2077.1 | 2135.2 | 2167.3 | 2216.1 | 2240.6 | 2291.0 | 2364.3 | 2384.1 |
| 15°    | 1867.9 | 1948.9 | 1994.7 | 2066.5 | 2142.8 | 2168.8 | 2236.0 | 2275.7 | 2379.6 | 2425.4 | 2480.4 |
| 17.5°  | 1826.7 | 1916.8 | 1977.9 | 2060.3 | 2135.2 | 2185.6 | 2251.3 | 2332.2 | 2419.3 | 2484.9 | 2546.0 |
| 20°    | 1793.1 | 1880.1 | 1953.4 | 2045.1 | 2139.8 | 2203.9 | 2272.6 | 2370.4 | 2465.1 | 2532.3 | 2579.6 |
| 22.5°  | 1716.7 | 1828.2 | 1913.7 | 2016.1 | 2130.6 | 2219.2 | 2284.9 | 2391.8 | 2494.1 | 2535.3 | 2576.6 |
| 25°    | 1678.5 | 1774.7 | 1874.0 | 1990.1 | 2124.5 | 2229.9 | 2286.4 | 2405.5 | 2495.6 | 2510.9 | 2520.1 |
| 27.5°  | 1608.3 | 1716.7 | 1832.8 | 1965.7 | 2123.0 | 2211.5 | 2283.3 | 2391.8 | 2463.6 | 2452.9 | 2425.4 |
| 30°    | 1521.2 | 1654.1 | 1782.4 | 1925.9 | 2101.6 | 2197.8 | 2265.0 | 2364.3 | 2400.9 | 2346.0 | 2297.1 |
| 32.5°  | 1457.1 | 1582.3 | 1724.3 | 1890.8 | 2077.1 | 2168.8 | 2234.5 | 2312.4 | 2320.0 | 2220.7 | 2138.2 |
| 35°    | 1370.0 | 1509.0 | 1669.4 | 1845.0 | 2035.9 | 2118.4 | 2179.5 | 2226.8 | 2190.2 | 2051.2 | 1953.4 |
| 37.5°  | 1292.1 | 1429.6 | 1600.6 | 1779.3 | 1979.4 | 2060.3 | 2109.2 | 2116.9 | 2026.7 | 1904.6 | 1761.0 |
| 40°    | 1206.6 | 1348.6 | 1527.3 | 1715.2 | 1916.8 | 1987.0 | 2017.6 | 1994.7 | 1864.8 | 1722.8 | 1556.3 |
| 42.5°  | 1121.0 | 1261.6 | 1454.0 | 1646.4 | 1837.4 | 1896.9 | 1909.1 | 1846.5 | 1687.7 | 1521.2 | 1328.8 |
| 45°    | 1027.9 | 1174.5 | 1366.9 | 1560.9 | 1745.7 | 1779.3 | 1780.8 | 1690.7 | 1502.9 | 1328.8 | 1150.1 |
| 47.5°  | 951.5  | 1087.4 | 1278.4 | 1472.3 | 1628.1 | 1651.0 | 1641.9 | 1538.0 | 1333.3 | 1137.8 | 982.1  |
| 50°    | 867.5  | 997.3  | 1186.7 | 1377.6 | 1510.5 | 1516.6 | 1493.7 | 1345.6 | 1145.5 | 966.8  | 843.1  |
| 52.5°  | 777.4  | 908.8  | 1082.9 | 1266.1 | 1385.3 | 1376.1 | 1331.8 | 1173.0 | 985.1  | 837.0  | 742.3  |
| 55°    | 705.6  | 821.7  | 985.1  | 1163.8 | 1247.8 | 1221.8 | 1173.0 | 1011.1 | 862.9  | 737.7  | 655.2  |
| 57.5°  | 626.2  | 728.5  | 888.9  | 1044.7 | 1093.6 | 1069.1 | 1020.2 | 869.0  | 731.6  | 636.9  | 581.9  |
| 60°    | 551.4  | 644.5  | 785.0  | 914.9  | 953.0  | 927.1  | 870.6  | 734.6  | 635.4  | 555.9  | 514.7  |
| 62.5°  | 482.6  | 563.6  | 681.2  | 800.3  | 815.6  | 789.6  | 740.7  | 630.8  | 545.3  | 482.6  | 452.1  |
| 65°    | 418.5  | 494.8  | 589.5  | 679.7  | 693.4  | 665.9  | 615.5  | 536.1  | 464.3  | 424.6  | 395.6  |
| 67.5°  | 355.9  | 417.0  | 501.0  | 566.6  | 574.3  | 548.3  | 507.1  | 442.9  | 398.6  | 355.9  | 334.5  |
| 70°    | 300.9  | 346.7  | 412.4  | 465.8  | 468.9  | 444.4  | 423.1  | 365.0  | 331.4  | 300.9  | 284.1  |
| 72.5°  | 247.4  | 279.5  | 329.9  | 369.6  | 371.1  | 355.9  | 336.0  | 299.4  | 270.3  | 249.0  | 232.2  |
| 75°    | 195.5  | 223.0  | 253.5  | 288.7  | 287.1  | 274.9  | 259.6  | 236.7  | 212.3  | 198.6  | 190.9  |
| 77.5°  | 149.7  | 166.5  | 190.9  | 213.8  | 213.8  | 207.7  | 198.6  | 181.8  | 166.5  | 152.7  | 145.1  |
| 80°    | 106.9  | 117.6  | 137.5  | 145.1  | 148.1  | 146.6  | 139.0  | 126.8  | 120.7  | 110.0  | 106.9  |
| 82.5°  | 68.7   | 76.4   | 85.5   | 93.2   | 97.7   | 94.7   | 93.2   | 87.1   | 77.9   | 74.8   | 71.8   |
| 85°    | 39.7   | 42.8   | 47.3   | 51.9   | 53.5   | 51.9   | 55.0   | 50.4   | 45.8   | 45.8   | 44.3   |
| 87.5°  | 16.8   | 18.3   | 21.4   | 21.4   | 22.9   | 22.9   | 21.4   | 22.9   | 22.9   | 21.4   | 19.9   |
| 90°    | 0.5    | 1.8    | 3.0    | 4.3    | 5.6    | 6.2    | 6.7    | 7.6    | 8.5    | 9.5    | 10.4   |
| 92.5°  | 13.0   | 12.5   | 12.1   | 11.6   | 11.1   | 10.9   | 11.1   | 11.4   | 11.8   | 12.1   | 12.5   |
| 95°    | 33.8   | 30.0   | 26.2   | 22.3   | 18.5   | 16.6   | 17.0   | 17.8   | 18.7   | 19.5   | 20.3   |
| 97.5°  | 60.8   | 51.3   | 41.9   | 32.4   | 22.9   | 18.2   | 19.1   | 21.0   | 22.8   | 24.7   | 26.5   |
| 100°   | 92.0   | 76.2   | 60.4   | 44.5   | 28.7   | 20.8   | 21.8   | 23.7   | 25.7   | 27.6   | 29.6   |
| 102.5° | 126.4  | 126.2  | 125.9  | 125.7  | 125.4  | 125.3  | 114.8  | 93.8   | 72.7   | 51.7   | 30.7   |
| 105°   | 158.1  | 161.6  | 165.0  | 168.5  | 172.0  | 173.7  | 157.9  | 126.4  | 94.8   | 63.3   | 31.7   |
| 107.5° | 195.0  | 197.9  | 200.8  | 203.7  | 206.6  | 208.0  | 188.5  | 149.6  | 110.7  | 71.7   | 32.8   |
| 110°   | 230.4  | 232.8  | 235.2  | 237.7  | 240.1  | 241.3  | 224.6  | 191.2  | 157.8  | 124.4  | 91.0   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 263.6 | 265.7 | 267.8 | 269.9 | 272.0 | 273.0 | 272.0 | 270.1 | 268.1 | 266.2 | 264.2 |
| 115°   | 299.0 | 301.0 | 302.9 | 304.9 | 306.8 | 307.8 | 309.2 | 312.1 | 315.0 | 317.9 | 320.8 |
| 117.5° | 329.7 | 332.0 | 334.3 | 336.6 | 338.9 | 340.1 | 341.1 | 343.0 | 345.0 | 346.9 | 348.9 |
| 120°   | 364.0 | 365.7 | 367.5 | 369.2 | 370.9 | 371.8 | 372.8 | 374.9 | 377.0 | 379.0 | 381.1 |
| 122.5° | 393.1 | 394.9 | 396.8 | 398.6 | 400.5 | 401.4 | 402.6 | 404.9 | 407.2 | 409.5 | 411.8 |
| 125°   | 422.7 | 424.2 | 425.7 | 427.2 | 428.7 | 429.5 | 430.6 | 432.8 | 435.0 | 437.2 | 439.4 |
| 127.5° | 449.8 | 451.4 | 453.0 | 454.7 | 456.3 | 457.1 | 458.0 | 459.7 | 461.4 | 463.2 | 464.9 |
| 130°   | 475.3 | 477.1 | 479.0 | 480.8 | 482.7 | 483.6 | 484.2 | 485.5 | 486.8 | 488.0 | 489.3 |
| 132.5° | 501.3 | 502.8 | 504.3 | 505.8 | 507.3 | 508.0 | 508.6 | 509.9 | 511.2 | 512.4 | 513.7 |
| 135°   | 523.1 | 524.9 | 526.8 | 528.6 | 530.5 | 531.4 | 531.9 | 533.0 | 534.0 | 535.1 | 536.1 |
| 137.5° | 546.0 | 547.4 | 548.8 | 550.1 | 551.5 | 552.2 | 552.8 | 553.9 | 555.1 | 556.2 | 557.4 |
| 140°   | 568.3 | 569.2 | 570.2 | 571.1 | 572.0 | 572.5 | 573.1 | 574.4 | 575.7 | 576.9 | 578.2 |
| 142.5° | 587.1 | 587.9 | 588.7 | 589.5 | 590.3 | 590.7 | 591.5 | 593.0 | 594.5 | 596.0 | 597.5 |
| 145°   | 606.8 | 606.7 | 606.6 | 606.5 | 606.4 | 606.3 | 607.3 | 609.2 | 611.2 | 613.1 | 615.1 |
| 147.5° | 624.0 | 623.6 | 623.3 | 622.9 | 622.6 | 622.4 | 623.4 | 625.4 | 627.3 | 629.3 | 631.3 |
| 150°   | 640.6 | 639.8 | 639.0 | 638.2 | 637.4 | 637.0 | 637.9 | 639.8 | 641.6 | 643.5 | 645.3 |
| 152.5° | 654.7 | 653.8 | 652.8 | 651.9 | 651.0 | 650.5 | 651.4 | 653.1 | 654.8 | 656.6 | 658.3 |
| 155°   | 668.2 | 667.2 | 666.1 | 665.1 | 664.0 | 663.5 | 664.2 | 665.6 | 666.9 | 668.3 | 669.7 |
| 157.5° | 679.1 | 678.2 | 677.2 | 676.3 | 675.4 | 674.9 | 675.4 | 676.5 | 677.5 | 678.6 | 679.6 |
| 160°   | 688.5 | 687.8 | 687.1 | 686.4 | 685.7 | 685.3 | 685.7 | 686.4 | 687.1 | 687.8 | 688.5 |
| 162.5° | 696.8 | 696.1 | 695.4 | 694.7 | 694.0 | 693.7 | 694.0 | 694.6 | 695.1 | 695.7 | 696.3 |
| 165°   | 704.1 | 703.4 | 702.7 | 702.0 | 701.3 | 700.9 | 701.1 | 701.4 | 701.8 | 702.1 | 702.5 |
| 167.5° | 709.8 | 709.1 | 708.4 | 707.7 | 707.0 | 706.7 | 706.9 | 707.2 | 707.5 | 707.9 | 708.2 |
| 170°   | 714.5 | 713.8 | 713.1 | 712.4 | 711.7 | 711.3 | 711.4 | 711.7 | 711.9 | 712.2 | 712.4 |
| 172.5° | 717.6 | 716.9 | 716.2 | 715.5 | 714.8 | 714.5 | 714.6 | 714.8 | 715.1 | 715.3 | 715.5 |
| 175°   | 720.2 | 719.4 | 718.6 | 717.7 | 716.9 | 716.5 | 716.6 | 716.9 | 717.1 | 717.4 | 717.6 |
| 177.5° | 721.2 | 720.4 | 719.6 | 718.8 | 718.0 | 717.6 | 717.7 | 717.8 | 717.9 | 718.0 | 718.1 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2064.9 | 2066.5 | 2069.5 | 2084.8 | 2092.4 | 2093.9 | 2087.8 | 2101.6 | 2106.2 | 2101.6 | 2098.5 |
| 5°     | 2162.7 | 2171.8 | 2190.2 | 2210.0 | 2208.5 | 2210.0 | 2219.2 | 2228.3 | 2231.4 | 2219.2 | 2223.8 |
| 7.5°   | 2248.2 | 2266.5 | 2286.4 | 2316.9 | 2316.9 | 2332.2 | 2338.3 | 2346.0 | 2364.3 | 2355.1 | 2352.1 |
| 10°    | 2346.0 | 2370.4 | 2407.0 | 2455.9 | 2457.4 | 2472.7 | 2488.0 | 2512.4 | 2520.1 | 2514.0 | 2517.0 |
| 12.5°  | 2468.1 | 2515.5 | 2518.5 | 2572.0 | 2596.4 | 2599.5 | 2623.9 | 2619.3 | 2634.6 | 2634.6 | 2660.6 |
| 15°    | 2521.6 | 2594.9 | 2636.1 | 2688.1 | 2703.3 | 2685.0 | 2704.9 | 2726.3 | 2727.8 | 2727.8 | 2726.3 |
| 17.5°  | 2617.8 | 2646.8 | 2688.1 | 2715.6 | 2721.7 | 2721.7 | 2723.2 | 2732.4 | 2726.3 | 2714.0 | 2723.2 |
| 20°    | 2637.7 | 2649.9 | 2665.2 | 2662.1 | 2665.2 | 2649.9 | 2634.6 | 2619.3 | 2620.9 | 2613.2 | 2636.1 |
| 22.5°  | 2601.0 | 2598.0 | 2562.8 | 2539.9 | 2539.9 | 2509.4 | 2480.4 | 2466.6 | 2452.9 | 2457.4 | 2465.1 |
| 25°    | 2509.4 | 2462.0 | 2419.3 | 2385.7 | 2378.0 | 2329.2 | 2289.4 | 2277.2 | 2254.3 | 2272.6 | 2275.7 |
| 27.5°  | 2362.8 | 2309.3 | 2240.6 | 2211.5 | 2171.8 | 2152.0 | 2124.5 | 2087.8 | 2040.5 | 2068.0 | 2063.4 |
| 30°    | 2205.4 | 2126.0 | 2069.5 | 1999.3 | 1936.6 | 1932.0 | 1880.1 | 1819.0 | 1794.6 | 1794.6 | 1808.3 |
| 32.5°  | 2029.8 | 1924.4 | 1841.9 | 1742.7 | 1681.6 | 1655.6 | 1593.0 | 1531.9 | 1545.6 | 1499.8 | 1516.6 |
| 35°    | 1825.1 | 1686.2 | 1582.3 | 1486.1 | 1440.3 | 1409.7 | 1328.8 | 1295.2 | 1258.5 | 1237.1 | 1276.8 |
| 37.5°  | 1629.6 | 1469.3 | 1336.4 | 1231.0 | 1214.2 | 1159.2 | 1104.2 | 1082.9 | 1061.5 | 1070.6 | 1069.1 |
| 40°    | 1391.4 | 1249.3 | 1130.2 | 1047.7 | 1018.7 | 992.8  | 956.1  | 930.1  | 916.4  | 924.0  | 925.6  |
| 42.5°  | 1176.0 | 1056.9 | 968.3  | 910.3  | 885.8  | 867.5  | 849.2  | 827.8  | 823.2  | 823.2  | 829.3  |
| 45°    | 1009.6 | 911.8  | 852.2  | 804.9  | 791.1  | 777.4  | 763.7  | 754.5  | 751.4  | 745.3  | 749.9  |
| 47.5°  | 876.7  | 798.8  | 762.1  | 727.0  | 711.7  | 708.7  | 696.5  | 691.9  | 685.8  | 684.2  | 685.8  |
| 50°    | 765.2  | 716.3  | 682.7  | 662.9  | 652.2  | 647.6  | 641.5  | 632.3  | 629.3  | 636.9  | 633.8  |
| 52.5°  | 687.3  | 641.5  | 623.1  | 603.3  | 597.2  | 591.1  | 581.9  | 583.4  | 581.9  | 578.9  | 578.9  |
| 55°    | 609.4  | 580.4  | 562.1  | 546.8  | 545.3  | 539.1  | 531.5  | 528.4  | 526.9  | 523.9  | 528.4  |
| 57.5°  | 546.8  | 523.9  | 507.1  | 493.3  | 487.2  | 487.2  | 479.6  | 473.5  | 473.5  | 471.9  | 473.5  |
| 60°    | 484.2  | 461.2  | 450.6  | 436.8  | 432.2  | 430.7  | 426.1  | 423.1  | 418.5  | 418.5  | 418.5  |
| 62.5°  | 426.1  | 407.8  | 395.6  | 383.4  | 384.9  | 377.2  | 371.1  | 368.1  | 368.1  | 369.6  | 369.6  |
| 65°    | 371.1  | 358.9  | 343.6  | 333.0  | 329.9  | 328.4  | 325.3  | 323.8  | 319.2  | 322.3  | 322.3  |
| 67.5°  | 320.7  | 303.9  | 294.8  | 290.2  | 285.6  | 284.1  | 281.0  | 278.0  | 276.4  | 274.9  | 278.0  |
| 70°    | 270.3  | 256.6  | 249.0  | 245.9  | 241.3  | 239.8  | 238.3  | 233.7  | 235.2  | 236.7  | 238.3  |
| 72.5°  | 224.5  | 212.3  | 210.8  | 201.6  | 201.6  | 201.6  | 195.5  | 198.6  | 197.0  | 194.0  | 197.0  |
| 75°    | 177.2  | 171.1  | 168.0  | 163.4  | 164.9  | 163.4  | 161.9  | 157.3  | 157.3  | 158.8  | 160.4  |
| 77.5°  | 140.5  | 134.4  | 132.9  | 128.3  | 125.2  | 128.3  | 125.2  | 123.7  | 123.7  | 125.2  | 125.2  |
| 80°    | 103.9  | 100.8  | 96.2   | 96.2   | 96.2   | 94.7   | 94.7   | 94.7   | 93.2   | 91.6   | 93.2   |
| 82.5°  | 68.7   | 68.7   | 67.2   | 65.7   | 67.2   | 64.1   | 65.7   | 65.7   | 65.7   | 65.7   | 65.7   |
| 85°    | 44.3   | 42.8   | 42.8   | 41.2   | 41.2   | 41.2   | 42.8   | 39.7   | 39.7   | 41.2   | 41.2   |
| 87.5°  | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 19.9   | 19.9   |
| 90°    | 11.0   | 11.6   | 12.1   | 12.7   | 13.0   | 13.1   | 13.3   | 13.6   | 13.8   | 14.0   | 13.8   |
| 92.5°  | 12.7   | 12.9   | 13.2   | 13.4   | 13.5   | 13.6   | 13.7   | 13.8   | 13.9   | 14.0   | 13.9   |
| 95°    | 20.9   | 21.5   | 22.0   | 22.6   | 22.9   | 22.8   | 22.7   | 22.6   | 22.5   | 22.4   | 22.5   |
| 97.5°  | 26.9   | 27.2   | 27.6   | 27.9   | 28.1   | 28.2   | 28.3   | 28.4   | 28.5   | 28.6   | 28.5   |
| 100°   | 30.5   | 31.5   | 32.4   | 33.3   | 33.8   | 33.9   | 34.1   | 34.4   | 34.6   | 34.8   | 34.6   |
| 102.5° | 32.0   | 33.2   | 34.5   | 35.8   | 36.4   | 36.6   | 36.9   | 37.3   | 37.6   | 38.0   | 37.6   |
| 105°   | 33.0   | 34.2   | 35.5   | 36.8   | 37.4   | 37.6   | 38.1   | 38.6   | 39.0   | 39.5   | 39.0   |
| 107.5° | 34.1   | 35.3   | 36.6   | 37.9   | 38.5   | 38.7   | 39.2   | 39.7   | 40.1   | 40.6   | 40.1   |
| 110°   | 79.4   | 67.9   | 56.3   | 44.8   | 39.0   | 39.2   | 39.7   | 40.2   | 40.6   | 41.1   | 40.6   |

TEST NUMBER: P997913

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.4 | 164.6 | 114.7 | 64.9  | 40.0  | 40.2  | 40.5  | 40.9  | 41.2  | 41.6  | 41.2  |
| 115°   | 267.3 | 213.8 | 160.3 | 106.8 | 80.1  | 75.9  | 67.6  | 59.3  | 50.9  | 42.6  | 50.9  |
| 117.5° | 332.4 | 315.9 | 299.4 | 282.9 | 274.6 | 259.5 | 229.2 | 198.9 | 168.6 | 138.3 | 168.6 |
| 120°   | 382.5 | 383.9 | 385.3 | 386.7 | 387.4 | 379.6 | 364.0 | 348.4 | 332.8 | 317.2 | 332.8 |
| 122.5° | 412.5 | 413.2 | 413.9 | 414.6 | 414.9 | 415.0 | 415.1 | 415.2 | 415.4 | 415.5 | 415.4 |
| 125°   | 440.2 | 441.0 | 441.8 | 442.6 | 443.0 | 443.2 | 443.5 | 443.9 | 444.2 | 444.6 | 444.2 |
| 127.5° | 466.1 | 467.2 | 468.4 | 469.5 | 470.1 | 470.2 | 470.3 | 470.4 | 470.5 | 470.6 | 470.5 |
| 130°   | 490.6 | 491.8 | 493.1 | 494.4 | 495.0 | 494.9 | 494.8 | 494.7 | 494.6 | 494.5 | 494.6 |
| 132.5° | 514.7 | 515.8 | 516.8 | 517.9 | 518.4 | 518.3 | 518.2 | 518.1 | 518.0 | 517.9 | 518.0 |
| 135°   | 537.3 | 538.4 | 539.6 | 540.7 | 541.3 | 541.2 | 541.0 | 540.7 | 540.5 | 540.3 | 540.5 |
| 137.5° | 558.6 | 559.7 | 560.9 | 562.0 | 562.6 | 562.4 | 562.1 | 561.8 | 561.4 | 561.1 | 561.4 |
| 140°   | 579.2 | 580.3 | 581.3 | 582.4 | 582.9 | 582.6 | 582.0 | 581.5 | 580.9 | 580.3 | 580.9 |
| 142.5° | 598.4 | 599.3 | 600.2 | 601.1 | 601.6 | 601.3 | 600.7 | 600.2 | 599.6 | 599.0 | 599.6 |
| 145°   | 615.9 | 616.7 | 617.6 | 618.4 | 618.8 | 618.5 | 617.9 | 617.4 | 616.8 | 616.2 | 616.8 |
| 147.5° | 631.9 | 632.5 | 633.0 | 633.6 | 633.9 | 633.7 | 633.2 | 632.7 | 632.3 | 631.8 | 632.3 |
| 150°   | 646.0 | 646.7 | 647.4 | 648.1 | 648.4 | 648.1 | 647.5 | 647.0 | 646.4 | 645.8 | 646.4 |
| 152.5° | 659.0 | 659.7 | 660.4 | 661.1 | 661.4 | 661.0 | 660.2 | 659.4 | 658.6 | 657.8 | 658.6 |
| 155°   | 670.4 | 671.1 | 671.8 | 672.5 | 672.9 | 672.4 | 671.5 | 670.6 | 669.6 | 668.7 | 669.6 |
| 157.5° | 680.4 | 681.2 | 682.1 | 682.9 | 683.3 | 682.8 | 681.9 | 681.0 | 680.0 | 679.1 | 680.0 |
| 160°   | 689.2 | 689.9 | 690.6 | 691.3 | 691.6 | 691.2 | 690.4 | 689.5 | 688.7 | 687.9 | 688.7 |
| 162.5° | 697.1 | 697.9 | 698.7 | 699.5 | 699.9 | 699.4 | 698.3 | 697.3 | 696.2 | 695.2 | 696.2 |
| 165°   | 703.3 | 704.1 | 704.9 | 705.7 | 706.1 | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 703.3 |
| 167.5° | 709.0 | 709.8 | 710.7 | 711.5 | 711.9 | 711.4 | 710.3 | 709.3 | 708.2 | 707.2 | 708.2 |
| 170°   | 713.2 | 714.0 | 714.8 | 715.6 | 716.0 | 715.5 | 714.4 | 713.4 | 712.3 | 711.3 | 712.3 |
| 172.5° | 716.3 | 717.1 | 717.9 | 718.7 | 719.1 | 718.6 | 717.6 | 716.5 | 715.5 | 714.5 | 715.5 |
| 175°   | 718.4 | 719.2 | 720.0 | 720.8 | 721.2 | 720.6 | 719.5 | 718.3 | 717.2 | 716.0 | 717.2 |
| 177.5° | 718.9 | 719.7 | 720.5 | 721.3 | 721.7 | 721.2 | 720.2 | 719.1 | 718.1 | 717.1 | 718.1 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2106.2 | 2095.5 | 2086.3 | 2087.8 | 2095.5 | 2089.4 | 2074.1 | 2054.2 | 2046.6 | 2037.4 | 2046.6 |
| 5°     | 2232.9 | 2223.8 | 2205.4 | 2207.0 | 2202.4 | 2196.3 | 2171.8 | 2141.3 | 2141.3 | 2116.9 | 2113.8 |
| 7.5°   | 2358.2 | 2344.4 | 2332.2 | 2329.2 | 2312.4 | 2300.1 | 2278.7 | 2236.0 | 2219.2 | 2190.2 | 2173.4 |
| 10°    | 2498.7 | 2488.0 | 2474.2 | 2457.4 | 2448.3 | 2426.9 | 2391.8 | 2329.2 | 2298.6 | 2258.9 | 2229.9 |
| 12.5°  | 2640.7 | 2639.2 | 2608.6 | 2575.0 | 2573.5 | 2539.9 | 2515.5 | 2431.5 | 2390.2 | 2336.8 | 2268.1 |
| 15°    | 2730.8 | 2723.2 | 2706.4 | 2689.6 | 2694.2 | 2657.5 | 2602.5 | 2503.3 | 2475.8 | 2411.6 | 2338.3 |
| 17.5°  | 2729.3 | 2729.3 | 2724.7 | 2721.7 | 2717.1 | 2706.4 | 2675.9 | 2610.2 | 2565.9 | 2484.9 | 2416.2 |
| 20°    | 2642.2 | 2662.1 | 2666.7 | 2665.2 | 2680.4 | 2688.1 | 2686.5 | 2645.3 | 2610.2 | 2538.4 | 2468.1 |
| 22.5°  | 2468.1 | 2514.0 | 2533.8 | 2546.0 | 2578.1 | 2594.9 | 2634.6 | 2619.3 | 2610.2 | 2556.7 | 2497.2 |
| 25°    | 2306.2 | 2321.5 | 2381.1 | 2384.1 | 2428.4 | 2469.7 | 2509.4 | 2535.3 | 2568.9 | 2549.1 | 2498.7 |
| 27.5°  | 2097.0 | 2132.1 | 2174.9 | 2207.0 | 2216.1 | 2300.1 | 2365.8 | 2414.7 | 2491.0 | 2497.2 | 2480.4 |
| 30°    | 1860.3 | 1877.1 | 1947.3 | 1990.1 | 2039.0 | 2100.1 | 2194.7 | 2278.7 | 2347.5 | 2410.1 | 2431.5 |
| 32.5°  | 1571.6 | 1640.3 | 1681.6 | 1733.5 | 1776.3 | 1884.7 | 2000.8 | 2109.2 | 2188.6 | 2294.0 | 2339.8 |
| 35°    | 1307.4 | 1360.8 | 1431.1 | 1452.5 | 1530.4 | 1622.0 | 1773.2 | 1912.2 | 2032.9 | 2139.8 | 2232.9 |
| 37.5°  | 1089.0 | 1131.7 | 1206.6 | 1240.2 | 1286.0 | 1403.6 | 1530.4 | 1703.0 | 1848.0 | 1979.4 | 2095.5 |
| 40°    | 939.3  | 971.4  | 1027.9 | 1038.6 | 1076.8 | 1183.7 | 1286.0 | 1447.9 | 1640.3 | 1817.5 | 1944.3 |
| 42.5°  | 837.0  | 852.2  | 890.4  | 904.2  | 928.6  | 1000.4 | 1092.0 | 1244.8 | 1423.5 | 1606.7 | 1785.4 |
| 45°    | 763.7  | 774.3  | 797.3  | 809.5  | 840.0  | 872.1  | 946.9  | 1069.1 | 1209.6 | 1394.4 | 1586.9 |
| 47.5°  | 698.0  | 711.7  | 720.9  | 728.5  | 745.3  | 780.5  | 829.3  | 919.4  | 1053.8 | 1223.4 | 1409.7 |
| 50°    | 643.0  | 647.6  | 664.4  | 665.9  | 676.6  | 699.5  | 745.3  | 800.3  | 907.2  | 1044.7 | 1224.9 |
| 52.5°  | 588.0  | 592.6  | 603.3  | 614.0  | 618.6  | 636.9  | 667.4  | 713.3  | 792.7  | 901.1  | 1061.5 |
| 55°    | 533.0  | 539.1  | 549.8  | 557.5  | 562.1  | 577.3  | 595.7  | 639.9  | 702.6  | 778.9  | 910.3  |
| 57.5°  | 478.0  | 491.8  | 494.8  | 499.4  | 507.1  | 523.9  | 540.7  | 566.6  | 615.5  | 685.8  | 782.0  |
| 60°    | 426.1  | 430.7  | 441.4  | 446.0  | 453.6  | 462.8  | 484.2  | 504.0  | 539.1  | 594.1  | 681.2  |
| 62.5°  | 372.7  | 383.4  | 387.9  | 392.5  | 398.6  | 409.3  | 423.1  | 444.4  | 475.0  | 519.3  | 588.0  |
| 65°    | 326.8  | 328.4  | 337.5  | 343.6  | 349.8  | 357.4  | 371.1  | 391.0  | 409.3  | 450.6  | 501.0  |
| 67.5°  | 282.6  | 285.6  | 288.7  | 294.8  | 302.4  | 310.0  | 322.3  | 333.0  | 355.9  | 383.4  | 423.1  |
| 70°    | 239.8  | 239.8  | 247.4  | 252.0  | 250.5  | 259.6  | 268.8  | 281.0  | 297.8  | 323.8  | 355.9  |
| 72.5°  | 201.6  | 200.1  | 206.2  | 207.7  | 210.8  | 216.9  | 223.0  | 235.2  | 244.4  | 264.2  | 288.7  |
| 75°    | 160.4  | 163.4  | 166.5  | 166.5  | 171.1  | 175.6  | 181.8  | 187.9  | 198.6  | 210.8  | 229.1  |
| 77.5°  | 126.8  | 126.8  | 129.8  | 131.3  | 135.9  | 134.4  | 140.5  | 146.6  | 154.3  | 164.9  | 178.7  |
| 80°    | 93.2   | 96.2   | 96.2   | 96.2   | 97.7   | 99.3   | 105.4  | 110.0  | 114.5  | 122.2  | 128.3  |
| 82.5°  | 65.7   | 65.7   | 68.7   | 68.7   | 68.7   | 71.8   | 71.8   | 73.3   | 76.4   | 80.9   | 85.5   |
| 85°    | 41.2   | 41.2   | 41.2   | 42.8   | 41.2   | 42.8   | 45.8   | 44.3   | 45.8   | 48.9   | 48.9   |
| 87.5°  | 19.9   | 19.9   | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 21.4   | 22.9   | 22.9   | 22.9   |
| 90°    | 13.6   | 13.3   | 13.1   | 13.0   | 12.7   | 12.1   | 11.6   | 11.0   | 10.4   | 9.5    | 8.5    |
| 92.5°  | 13.8   | 13.7   | 13.6   | 13.5   | 13.4   | 13.2   | 12.9   | 12.7   | 12.5   | 12.1   | 11.8   |
| 95°    | 22.6   | 22.7   | 22.8   | 22.9   | 22.6   | 22.0   | 21.5   | 20.9   | 20.3   | 19.5   | 18.7   |
| 97.5°  | 28.4   | 28.3   | 28.2   | 28.1   | 27.9   | 27.6   | 27.2   | 26.9   | 26.5   | 24.7   | 22.8   |
| 100°   | 34.4   | 34.1   | 33.9   | 33.8   | 33.3   | 32.4   | 31.5   | 30.5   | 29.6   | 27.6   | 25.7   |
| 102.5° | 37.3   | 36.9   | 36.6   | 36.4   | 35.8   | 34.5   | 33.2   | 32.0   | 30.7   | 51.7   | 72.7   |
| 105°   | 38.6   | 38.1   | 37.6   | 37.4   | 36.8   | 35.5   | 34.2   | 33.0   | 31.7   | 63.3   | 94.8   |
| 107.5° | 39.7   | 39.2   | 38.7   | 38.5   | 37.9   | 36.6   | 35.3   | 34.1   | 32.8   | 71.7   | 110.7  |
| 110°   | 40.2   | 39.7   | 39.2   | 39.0   | 44.8   | 56.3   | 67.9   | 79.4   | 91.0   | 124.4  | 157.8  |

TEST NUMBER: P997913

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**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 40.9  | 40.5  | 40.2  | 40.0   | 64.9  | 114.7 | 164.6 | 214.4 | 264.2 | 266.2 | 268.1 |
| 115°   | 59.3  | 67.6  | 75.9  | 80.1   | 106.8 | 160.3 | 213.8 | 267.3 | 320.8 | 317.9 | 315.0 |
| 117.5° | 198.9 | 229.2 | 259.5 | 274.6  | 282.9 | 299.4 | 315.9 | 332.4 | 348.9 | 346.9 | 345.0 |
| 120°   | 348.4 | 364.0 | 379.6 | 387.4  | 386.7 | 385.3 | 383.9 | 382.5 | 381.1 | 379.0 | 377.0 |
| 122.5° | 415.2 | 415.1 | 415.0 | 414.9  | 414.6 | 413.9 | 413.2 | 412.5 | 411.8 | 409.5 | 407.2 |
| 125°   | 443.9 | 443.5 | 443.2 | 443.0  | 442.6 | 441.8 | 441.0 | 440.2 | 439.4 | 437.2 | 435.0 |
| 127.5° | 470.4 | 470.3 | 470.2 | 470.1  | 469.5 | 468.4 | 467.2 | 466.1 | 464.9 | 463.2 | 461.4 |
| 130°   | 494.7 | 494.8 | 494.9 | 495.0  | 494.4 | 493.1 | 491.8 | 490.6 | 489.3 | 488.0 | 486.8 |
| 132.5° | 518.1 | 518.2 | 518.3 | 518.4  | 517.9 | 516.8 | 515.8 | 514.7 | 513.7 | 512.4 | 511.2 |
| 135°   | 540.7 | 541.0 | 541.2 | 541.3  | 540.7 | 539.6 | 538.4 | 537.3 | 536.1 | 535.1 | 534.0 |
| 137.5° | 561.8 | 562.1 | 562.4 | 562.6  | 562.0 | 560.9 | 559.7 | 558.6 | 557.4 | 556.2 | 555.1 |
| 140°   | 581.5 | 582.0 | 582.6 | 582.9  | 582.4 | 581.3 | 580.3 | 579.2 | 578.2 | 576.9 | 575.7 |
| 142.5° | 600.2 | 600.7 | 601.3 | 601.6  | 601.1 | 600.2 | 599.3 | 598.4 | 597.5 | 596.0 | 594.5 |
| 145°   | 617.4 | 617.9 | 618.5 | 618.8  | 618.4 | 617.6 | 616.7 | 615.9 | 615.1 | 613.1 | 611.2 |
| 147.5° | 632.7 | 633.2 | 633.7 | 633.9  | 633.6 | 633.0 | 632.5 | 631.9 | 631.3 | 629.3 | 627.3 |
| 150°   | 647.0 | 647.5 | 648.1 | 648.4  | 648.1 | 647.4 | 646.7 | 646.0 | 645.3 | 643.5 | 641.6 |
| 152.5° | 659.4 | 660.2 | 661.0 | 661.4  | 661.1 | 660.4 | 659.7 | 659.0 | 658.3 | 656.6 | 654.8 |
| 155°   | 670.6 | 671.5 | 672.4 | 672.9  | 672.5 | 671.8 | 671.1 | 670.4 | 669.7 | 668.3 | 666.9 |
| 157.5° | 681.0 | 681.9 | 682.8 | 683.3  | 682.9 | 682.1 | 681.2 | 680.4 | 679.6 | 678.6 | 677.5 |
| 160°   | 689.5 | 690.4 | 691.2 | 691.6  | 691.3 | 690.6 | 689.9 | 689.2 | 688.5 | 687.8 | 687.1 |
| 162.5° | 697.3 | 698.3 | 699.4 | 699.9  | 699.5 | 698.7 | 697.9 | 697.1 | 696.3 | 695.7 | 695.1 |
| 165°   | 704.1 | 704.9 | 705.7 | 706.1  | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 702.1 | 701.8 |
| 167.5° | 709.3 | 710.3 | 711.4 | 711.9  | 711.5 | 710.7 | 709.8 | 709.0 | 708.2 | 707.9 | 707.5 |
| 170°   | 713.4 | 714.4 | 715.5 | 716.0  | 715.6 | 714.8 | 714.0 | 713.2 | 712.4 | 712.2 | 711.9 |
| 172.5° | 716.5 | 717.6 | 718.6 | 719.1  | 718.7 | 717.9 | 717.1 | 716.3 | 715.5 | 715.3 | 715.1 |
| 175°   | 718.3 | 719.5 | 720.6 | 721.2  | 720.8 | 720.0 | 719.2 | 718.4 | 717.6 | 717.4 | 717.1 |
| 177.5° | 719.1 | 720.2 | 721.2 | 721.7  | 721.3 | 720.5 | 719.7 | 718.9 | 718.1 | 718.0 | 717.9 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2039.0 | 2031.3 | 2026.7 | 2029.8 | 2020.6 | 1997.7 | 1997.7 | 2005.4 | 1996.2 | 1987.0 | 1973.3 |
| 5°     | 2095.5 | 2080.2 | 2071.0 | 2069.5 | 2048.1 | 2011.5 | 2003.8 | 1996.2 | 1976.3 | 1955.0 | 1932.0 |
| 7.5°   | 2150.5 | 2123.0 | 2107.7 | 2097.0 | 2066.5 | 2019.1 | 1999.3 | 1982.5 | 1950.4 | 1918.3 | 1889.3 |
| 10°    | 2196.3 | 2156.6 | 2138.2 | 2121.4 | 2081.7 | 2022.2 | 1990.1 | 1959.5 | 1918.3 | 1877.1 | 1840.4 |
| 12.5°  | 2232.9 | 2187.1 | 2164.2 | 2139.8 | 2090.9 | 2013.0 | 1973.3 | 1924.4 | 1883.2 | 1828.2 | 1791.5 |
| 15°    | 2294.0 | 2199.3 | 2177.9 | 2155.0 | 2104.6 | 1997.7 | 1948.9 | 1893.9 | 1837.4 | 1764.0 | 1724.3 |
| 17.5°  | 2342.9 | 2216.1 | 2214.6 | 2165.7 | 2100.1 | 1991.6 | 1916.8 | 1845.0 | 1783.9 | 1710.6 | 1648.0 |
| 20°    | 2371.9 | 2242.1 | 2217.7 | 2167.3 | 2084.8 | 1950.4 | 1872.5 | 1793.1 | 1727.4 | 1638.8 | 1576.2 |
| 22.5°  | 2396.4 | 2278.7 | 2214.6 | 2153.5 | 2052.7 | 1936.6 | 1822.1 | 1747.2 | 1657.1 | 1560.9 | 1501.3 |
| 25°    | 2405.5 | 2286.4 | 2219.2 | 2148.9 | 2029.8 | 1896.9 | 1767.1 | 1686.2 | 1585.3 | 1498.3 | 1417.3 |
| 27.5°  | 2407.0 | 2284.9 | 2202.4 | 2129.1 | 1997.7 | 1845.0 | 1712.1 | 1626.6 | 1515.1 | 1414.3 | 1333.3 |
| 30°    | 2391.8 | 2268.1 | 2193.2 | 2113.8 | 1967.2 | 1797.6 | 1644.9 | 1550.2 | 1431.1 | 1330.3 | 1246.3 |
| 32.5°  | 2346.0 | 2234.5 | 2173.4 | 2086.3 | 1927.5 | 1732.0 | 1580.8 | 1475.4 | 1350.1 | 1250.9 | 1169.9 |
| 35°    | 2269.6 | 2193.2 | 2126.0 | 2045.1 | 1875.5 | 1670.9 | 1516.6 | 1392.9 | 1266.1 | 1171.4 | 1095.1 |
| 37.5°  | 2174.9 | 2133.7 | 2071.0 | 1991.6 | 1816.0 | 1615.9 | 1444.8 | 1307.4 | 1180.6 | 1089.0 | 1014.1 |
| 40°    | 2046.6 | 2057.3 | 1996.2 | 1924.4 | 1745.7 | 1541.1 | 1351.7 | 1220.3 | 1101.2 | 1015.7 | 942.4  |
| 42.5°  | 1907.6 | 1951.9 | 1916.8 | 1848.0 | 1667.8 | 1458.6 | 1282.9 | 1137.8 | 1021.8 | 933.2  | 872.1  |
| 45°    | 1757.9 | 1834.3 | 1812.9 | 1762.5 | 1586.9 | 1371.5 | 1185.2 | 1044.7 | 942.4  | 856.8  | 803.4  |
| 47.5°  | 1594.5 | 1703.0 | 1703.0 | 1666.3 | 1496.8 | 1284.5 | 1101.2 | 957.6  | 856.8  | 795.7  | 743.8  |
| 50°    | 1428.0 | 1550.2 | 1570.1 | 1545.6 | 1396.0 | 1185.2 | 998.9  | 869.0  | 782.0  | 722.4  | 684.2  |
| 52.5°  | 1253.9 | 1396.0 | 1432.6 | 1420.4 | 1289.1 | 1090.5 | 914.9  | 788.1  | 708.7  | 656.7  | 623.1  |
| 55°    | 1087.4 | 1252.4 | 1292.1 | 1296.7 | 1174.5 | 986.6  | 821.7  | 710.2  | 633.8  | 598.7  | 569.7  |
| 57.5°  | 930.1  | 1089.0 | 1133.3 | 1140.9 | 1058.4 | 892.0  | 734.6  | 636.9  | 568.2  | 539.1  | 516.2  |
| 60°    | 795.7  | 928.6  | 986.6  | 1003.4 | 931.7  | 782.0  | 653.7  | 559.0  | 507.1  | 479.6  | 458.2  |
| 62.5°  | 685.8  | 792.7  | 853.8  | 858.3  | 826.3  | 685.8  | 569.7  | 490.3  | 446.0  | 421.5  | 410.8  |
| 65°    | 578.9  | 675.1  | 711.7  | 730.1  | 704.1  | 594.1  | 491.8  | 426.1  | 391.0  | 369.6  | 358.9  |
| 67.5°  | 493.3  | 554.4  | 585.0  | 609.4  | 583.4  | 501.0  | 418.5  | 365.0  | 339.1  | 317.7  | 311.6  |
| 70°    | 404.7  | 455.1  | 478.0  | 502.5  | 479.6  | 417.0  | 357.4  | 308.5  | 285.6  | 268.8  | 261.2  |
| 72.5°  | 323.8  | 363.5  | 384.9  | 400.2  | 386.4  | 334.5  | 285.6  | 252.0  | 235.2  | 223.0  | 218.4  |
| 75°    | 256.6  | 284.1  | 296.3  | 307.0  | 300.9  | 261.2  | 230.6  | 203.1  | 187.9  | 177.2  | 174.1  |
| 77.5°  | 195.5  | 215.4  | 229.1  | 232.2  | 224.5  | 198.6  | 172.6  | 155.8  | 143.6  | 137.5  | 134.4  |
| 80°    | 139.0  | 151.2  | 158.8  | 163.4  | 155.8  | 145.1  | 126.8  | 114.5  | 103.9  | 96.2   | 94.7   |
| 82.5°  | 93.2   | 99.3   | 105.4  | 103.9  | 100.8  | 91.6   | 80.9   | 74.8   | 70.3   | 64.1   | 64.1   |
| 85°    | 53.5   | 55.0   | 58.0   | 59.6   | 58.0   | 51.9   | 45.8   | 42.8   | 39.7   | 35.1   | 35.1   |
| 87.5°  | 22.9   | 24.4   | 24.4   | 26.0   | 22.9   | 22.9   | 19.9   | 16.8   | 16.8   | 15.3   | 13.7   |
| 90°    | 7.6    | 6.7    | 6.2    | 5.6    | 4.3    | 3.0    | 1.8    | 0.5    | 1.8    | 3.0    | 4.3    |
| 92.5°  | 11.4   | 11.1   | 10.9   | 11.1   | 11.6   | 12.1   | 12.5   | 13.0   | 12.5   | 12.1   | 11.6   |
| 95°    | 17.8   | 17.0   | 16.6   | 18.5   | 22.3   | 26.2   | 30.0   | 33.8   | 30.0   | 26.2   | 22.3   |
| 97.5°  | 21.0   | 19.1   | 18.2   | 22.9   | 32.4   | 41.9   | 51.3   | 60.8   | 51.3   | 41.9   | 32.4   |
| 100°   | 23.7   | 21.8   | 20.8   | 28.7   | 44.5   | 60.4   | 76.2   | 92.0   | 76.2   | 60.4   | 44.5   |
| 102.5° | 93.8   | 114.8  | 125.3  | 125.4  | 125.7  | 125.9  | 126.2  | 126.4  | 126.2  | 125.9  | 125.7  |
| 105°   | 126.4  | 157.9  | 173.7  | 172.0  | 168.5  | 165.0  | 161.6  | 158.1  | 161.6  | 165.0  | 168.5  |
| 107.5° | 149.6  | 188.5  | 208.0  | 206.6  | 203.7  | 200.8  | 197.9  | 195.0  | 197.9  | 200.8  | 203.7  |
| 110°   | 191.2  | 224.6  | 241.3  | 240.1  | 237.7  | 235.2  | 232.8  | 230.4  | 232.8  | 235.2  | 237.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 270.1 | 272.0 | 273.0  | 272.0 | 269.9 | 267.8 | 265.7 | 263.6 | 265.7 | 267.8 | 269.9 |
| 115°   | 312.1 | 309.2 | 307.8  | 306.8 | 304.9 | 302.9 | 301.0 | 299.0 | 301.0 | 302.9 | 304.9 |
| 117.5° | 343.0 | 341.1 | 340.1  | 338.9 | 336.6 | 334.3 | 332.0 | 329.7 | 332.0 | 334.3 | 336.6 |
| 120°   | 374.9 | 372.8 | 371.8  | 370.9 | 369.2 | 367.5 | 365.7 | 364.0 | 365.7 | 367.5 | 369.2 |
| 122.5° | 404.9 | 402.6 | 401.4  | 400.5 | 398.6 | 396.8 | 394.9 | 393.1 | 394.9 | 396.8 | 398.6 |
| 125°   | 432.8 | 430.6 | 429.5  | 428.7 | 427.2 | 425.7 | 424.2 | 422.7 | 424.2 | 425.7 | 427.2 |
| 127.5° | 459.7 | 458.0 | 457.1  | 456.3 | 454.7 | 453.0 | 451.4 | 449.8 | 451.4 | 453.0 | 454.7 |
| 130°   | 485.5 | 484.2 | 483.6  | 482.7 | 480.8 | 479.0 | 477.1 | 475.3 | 477.1 | 479.0 | 480.8 |
| 132.5° | 509.9 | 508.6 | 508.0  | 507.3 | 505.8 | 504.3 | 502.8 | 501.3 | 502.8 | 504.3 | 505.8 |
| 135°   | 533.0 | 531.9 | 531.4  | 530.5 | 528.6 | 526.8 | 524.9 | 523.1 | 524.9 | 526.8 | 528.6 |
| 137.5° | 553.9 | 552.8 | 552.2  | 551.5 | 550.1 | 548.8 | 547.4 | 546.0 | 547.4 | 548.8 | 550.1 |
| 140°   | 574.4 | 573.1 | 572.5  | 572.0 | 571.1 | 570.2 | 569.2 | 568.3 | 569.2 | 570.2 | 571.1 |
| 142.5° | 593.0 | 591.5 | 590.7  | 590.3 | 589.5 | 588.7 | 587.9 | 587.1 | 587.9 | 588.7 | 589.5 |
| 145°   | 609.2 | 607.3 | 606.3  | 606.4 | 606.5 | 606.6 | 606.7 | 606.8 | 606.7 | 606.6 | 606.5 |
| 147.5° | 625.4 | 623.4 | 622.4  | 622.6 | 622.9 | 623.3 | 623.6 | 624.0 | 623.6 | 623.3 | 622.9 |
| 150°   | 639.8 | 637.9 | 637.0  | 637.4 | 638.2 | 639.0 | 639.8 | 640.6 | 639.8 | 639.0 | 638.2 |
| 152.5° | 653.1 | 651.4 | 650.5  | 651.0 | 651.9 | 652.8 | 653.8 | 654.7 | 653.8 | 652.8 | 651.9 |
| 155°   | 665.6 | 664.2 | 663.5  | 664.0 | 665.1 | 666.1 | 667.2 | 668.2 | 667.2 | 666.1 | 665.1 |
| 157.5° | 676.5 | 675.4 | 674.9  | 675.4 | 676.3 | 677.2 | 678.2 | 679.1 | 678.2 | 677.2 | 676.3 |
| 160°   | 686.4 | 685.7 | 685.3  | 685.7 | 686.4 | 687.1 | 687.8 | 688.5 | 687.8 | 687.1 | 686.4 |
| 162.5° | 694.6 | 694.0 | 693.7  | 694.0 | 694.7 | 695.4 | 696.1 | 696.8 | 696.1 | 695.4 | 694.7 |
| 165°   | 701.4 | 701.1 | 700.9  | 701.3 | 702.0 | 702.7 | 703.4 | 704.1 | 703.4 | 702.7 | 702.0 |
| 167.5° | 707.2 | 706.9 | 706.7  | 707.0 | 707.7 | 708.4 | 709.1 | 709.8 | 709.1 | 708.4 | 707.7 |
| 170°   | 711.7 | 711.4 | 711.3  | 711.7 | 712.4 | 713.1 | 713.8 | 714.5 | 713.8 | 713.1 | 712.4 |
| 172.5° | 714.8 | 714.6 | 714.5  | 714.8 | 715.5 | 716.2 | 716.9 | 717.6 | 716.9 | 716.2 | 715.5 |
| 175°   | 716.9 | 716.6 | 716.5  | 716.9 | 717.7 | 718.6 | 719.4 | 720.2 | 719.4 | 718.6 | 717.7 |
| 177.5° | 717.8 | 717.7 | 717.6  | 718.0 | 718.8 | 719.6 | 720.4 | 721.2 | 720.4 | 719.6 | 718.8 |
| 180°   | 718.6 | 718.6 | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1965.7 | 1973.3 | 1971.8 | 1956.5 | 1939.7 | 1925.9 | 1900.0 | 1903.0 | 1893.9 | 1895.4 | 1904.6 |
| 5°     | 1916.8 | 1916.8 | 1910.7 | 1889.3 | 1861.8 | 1846.5 | 1817.5 | 1809.9 | 1791.5 | 1790.0 | 1788.5 |
| 7.5°   | 1864.8 | 1857.2 | 1849.6 | 1819.0 | 1785.4 | 1761.0 | 1721.3 | 1712.1 | 1693.8 | 1681.6 | 1675.5 |
| 10°    | 1803.8 | 1793.1 | 1777.8 | 1742.7 | 1701.4 | 1670.9 | 1629.6 | 1617.4 | 1582.3 | 1567.0 | 1557.9 |
| 12.5°  | 1736.6 | 1730.4 | 1706.0 | 1677.0 | 1609.8 | 1576.2 | 1516.6 | 1528.8 | 1493.7 | 1463.2 | 1458.6 |
| 15°    | 1669.4 | 1646.4 | 1632.7 | 1585.3 | 1504.4 | 1489.1 | 1441.8 | 1417.3 | 1385.3 | 1360.8 | 1360.8 |
| 17.5°  | 1603.7 | 1568.5 | 1538.0 | 1487.6 | 1428.0 | 1385.3 | 1350.1 | 1337.9 | 1298.2 | 1273.8 | 1269.2 |
| 20°    | 1516.6 | 1476.9 | 1469.3 | 1397.5 | 1356.3 | 1308.9 | 1275.3 | 1244.8 | 1215.7 | 1205.0 | 1197.4 |
| 22.5°  | 1434.1 | 1388.3 | 1376.1 | 1315.0 | 1273.8 | 1226.4 | 1192.8 | 1171.4 | 1150.1 | 1142.4 | 1128.7 |
| 25°    | 1345.6 | 1318.1 | 1299.7 | 1234.1 | 1188.2 | 1144.0 | 1121.0 | 1105.8 | 1085.9 | 1084.4 | 1075.2 |
| 27.5°  | 1260.0 | 1234.1 | 1215.7 | 1153.1 | 1119.5 | 1078.3 | 1060.0 | 1043.2 | 1032.5 | 1027.9 | 1023.3 |
| 30°    | 1186.7 | 1157.7 | 1136.3 | 1090.5 | 1049.3 | 1015.7 | 1000.4 | 989.7  | 983.6  | 976.0  | 974.4  |
| 32.5°  | 1105.8 | 1089.0 | 1060.0 | 1024.8 | 992.8  | 960.7  | 951.5  | 943.9  | 934.7  | 931.7  | 930.1  |
| 35°    | 1037.0 | 1014.1 | 995.8  | 956.1  | 942.4  | 914.9  | 904.2  | 898.1  | 885.8  | 882.8  | 879.7  |
| 37.5°  | 969.8  | 948.5  | 928.6  | 904.2  | 878.2  | 862.9  | 856.8  | 847.7  | 841.5  | 843.1  | 840.0  |
| 40°    | 902.6  | 885.8  | 870.6  | 844.6  | 829.3  | 821.7  | 809.5  | 800.3  | 797.3  | 798.8  | 797.3  |
| 42.5°  | 837.0  | 821.7  | 812.5  | 792.7  | 777.4  | 769.8  | 762.1  | 753.0  | 757.5  | 757.5  | 762.1  |
| 45°    | 777.4  | 763.7  | 757.5  | 742.3  | 733.1  | 720.9  | 713.3  | 711.7  | 717.8  | 716.3  | 716.3  |
| 47.5°  | 716.3  | 711.7  | 704.1  | 690.3  | 678.1  | 670.5  | 669.0  | 669.0  | 675.1  | 678.1  | 676.6  |
| 50°    | 669.0  | 659.8  | 650.6  | 639.9  | 630.8  | 627.7  | 623.1  | 626.2  | 632.3  | 632.3  | 635.4  |
| 52.5°  | 609.4  | 603.3  | 600.2  | 591.1  | 585.0  | 585.0  | 585.0  | 586.5  | 591.1  | 595.7  | 594.1  |
| 55°    | 557.5  | 552.9  | 549.8  | 545.3  | 537.6  | 539.1  | 537.6  | 540.7  | 545.3  | 549.8  | 552.9  |
| 57.5°  | 502.5  | 501.0  | 497.9  | 490.3  | 490.3  | 488.7  | 493.3  | 494.8  | 502.5  | 505.5  | 510.1  |
| 60°    | 453.6  | 449.0  | 449.0  | 442.9  | 442.9  | 442.9  | 447.5  | 452.1  | 458.2  | 459.7  | 462.8  |
| 62.5°  | 401.7  | 401.7  | 400.2  | 395.6  | 395.6  | 400.2  | 401.7  | 407.8  | 410.8  | 410.8  | 415.4  |
| 65°    | 352.8  | 351.3  | 349.8  | 351.3  | 352.8  | 352.8  | 357.4  | 360.4  | 363.5  | 365.0  | 366.6  |
| 67.5°  | 303.9  | 302.4  | 305.5  | 303.9  | 307.0  | 313.1  | 311.6  | 316.2  | 320.7  | 320.7  | 322.3  |
| 70°    | 258.1  | 261.2  | 259.6  | 262.7  | 261.2  | 264.2  | 268.8  | 270.3  | 270.3  | 271.9  | 276.4  |
| 72.5°  | 215.4  | 215.4  | 215.4  | 213.8  | 215.4  | 218.4  | 221.5  | 223.0  | 226.0  | 227.6  | 232.2  |
| 75°    | 174.1  | 174.1  | 171.1  | 174.1  | 174.1  | 177.2  | 180.2  | 180.2  | 180.2  | 183.3  | 187.9  |
| 77.5°  | 131.3  | 132.9  | 131.3  | 134.4  | 134.4  | 135.9  | 139.0  | 137.5  | 140.5  | 142.0  | 143.6  |
| 80°    | 96.2   | 94.7   | 94.7   | 94.7   | 96.2   | 96.2   | 99.3   | 100.8  | 100.8  | 105.4  | 102.3  |
| 82.5°  | 61.1   | 62.6   | 61.1   | 62.6   | 62.6   | 64.1   | 62.6   | 64.1   | 65.7   | 68.7   | 67.2   |
| 85°    | 35.1   | 33.6   | 33.6   | 35.1   | 33.6   | 33.6   | 35.1   | 33.6   | 35.1   | 33.6   | 35.1   |
| 87.5°  | 13.7   | 12.2   | 12.2   | 12.2   | 12.2   | 10.7   | 10.7   | 9.2    | 9.2    | 9.2    | 7.6    |
| 90°    | 5.6    | 6.2    | 6.7    | 7.6    | 8.5    | 9.5    | 10.4   | 11.0   | 11.6   | 12.1   | 12.7   |
| 92.5°  | 11.1   | 10.9   | 11.1   | 11.4   | 11.8   | 12.1   | 12.5   | 12.7   | 12.9   | 13.2   | 13.4   |
| 95°    | 18.5   | 16.6   | 17.0   | 17.8   | 18.7   | 19.5   | 20.3   | 20.9   | 21.5   | 22.0   | 22.6   |
| 97.5°  | 22.9   | 18.2   | 19.1   | 21.0   | 22.8   | 24.7   | 26.5   | 26.9   | 27.2   | 27.6   | 27.9   |
| 100°   | 28.7   | 20.8   | 21.8   | 23.7   | 25.7   | 27.6   | 29.6   | 30.5   | 31.5   | 32.4   | 33.3   |
| 102.5° | 125.4  | 125.3  | 114.8  | 93.8   | 72.7   | 51.7   | 30.7   | 32.0   | 33.2   | 34.5   | 35.8   |
| 105°   | 172.0  | 173.7  | 157.9  | 126.4  | 94.8   | 63.3   | 31.7   | 33.0   | 34.2   | 35.5   | 36.8   |
| 107.5° | 206.6  | 208.0  | 188.5  | 149.6  | 110.7  | 71.7   | 32.8   | 34.1   | 35.3   | 36.6   | 37.9   |
| 110°   | 240.1  | 241.3  | 224.6  | 191.2  | 157.8  | 124.4  | 91.0   | 79.4   | 67.9   | 56.3   | 44.8   |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 272.0 | 273.0  | 272.0 | 270.1 | 268.1 | 266.2 | 264.2 | 214.4 | 164.6 | 114.7 | 64.9  |
| 115°   | 306.8 | 307.8  | 309.2 | 312.1 | 315.0 | 317.9 | 320.8 | 267.3 | 213.8 | 160.3 | 106.8 |
| 117.5° | 338.9 | 340.1  | 341.1 | 343.0 | 345.0 | 346.9 | 348.9 | 332.4 | 315.9 | 299.4 | 282.9 |
| 120°   | 370.9 | 371.8  | 372.8 | 374.9 | 377.0 | 379.0 | 381.1 | 382.5 | 383.9 | 385.3 | 386.7 |
| 122.5° | 400.5 | 401.4  | 402.6 | 404.9 | 407.2 | 409.5 | 411.8 | 412.5 | 413.2 | 413.9 | 414.6 |
| 125°   | 428.7 | 429.5  | 430.6 | 432.8 | 435.0 | 437.2 | 439.4 | 440.2 | 441.0 | 441.8 | 442.6 |
| 127.5° | 456.3 | 457.1  | 458.0 | 459.7 | 461.4 | 463.2 | 464.9 | 466.1 | 467.2 | 468.4 | 469.5 |
| 130°   | 482.7 | 483.6  | 484.2 | 485.5 | 486.8 | 488.0 | 489.3 | 490.6 | 491.8 | 493.1 | 494.4 |
| 132.5° | 507.3 | 508.0  | 508.6 | 509.9 | 511.2 | 512.4 | 513.7 | 514.7 | 515.8 | 516.8 | 517.9 |
| 135°   | 530.5 | 531.4  | 531.9 | 533.0 | 534.0 | 535.1 | 536.1 | 537.3 | 538.4 | 539.6 | 540.7 |
| 137.5° | 551.5 | 552.2  | 552.8 | 553.9 | 555.1 | 556.2 | 557.4 | 558.6 | 559.7 | 560.9 | 562.0 |
| 140°   | 572.0 | 572.5  | 573.1 | 574.4 | 575.7 | 576.9 | 578.2 | 579.2 | 580.3 | 581.3 | 582.4 |
| 142.5° | 590.3 | 590.7  | 591.5 | 593.0 | 594.5 | 596.0 | 597.5 | 598.4 | 599.3 | 600.2 | 601.1 |
| 145°   | 606.4 | 606.3  | 607.3 | 609.2 | 611.2 | 613.1 | 615.1 | 615.9 | 616.7 | 617.6 | 618.4 |
| 147.5° | 622.6 | 622.4  | 623.4 | 625.4 | 627.3 | 629.3 | 631.3 | 631.9 | 632.5 | 633.0 | 633.6 |
| 150°   | 637.4 | 637.0  | 637.9 | 639.8 | 641.6 | 643.5 | 645.3 | 646.0 | 646.7 | 647.4 | 648.1 |
| 152.5° | 651.0 | 650.5  | 651.4 | 653.1 | 654.8 | 656.6 | 658.3 | 659.0 | 659.7 | 660.4 | 661.1 |
| 155°   | 664.0 | 663.5  | 664.2 | 665.6 | 666.9 | 668.3 | 669.7 | 670.4 | 671.1 | 671.8 | 672.5 |
| 157.5° | 675.4 | 674.9  | 675.4 | 676.5 | 677.5 | 678.6 | 679.6 | 680.4 | 681.2 | 682.1 | 682.9 |
| 160°   | 685.7 | 685.3  | 685.7 | 686.4 | 687.1 | 687.8 | 688.5 | 689.2 | 689.9 | 690.6 | 691.3 |
| 162.5° | 694.0 | 693.7  | 694.0 | 694.6 | 695.1 | 695.7 | 696.3 | 697.1 | 697.9 | 698.7 | 699.5 |
| 165°   | 701.3 | 700.9  | 701.1 | 701.4 | 701.8 | 702.1 | 702.5 | 703.3 | 704.1 | 704.9 | 705.7 |
| 167.5° | 707.0 | 706.7  | 706.9 | 707.2 | 707.5 | 707.9 | 708.2 | 709.0 | 709.8 | 710.7 | 711.5 |
| 170°   | 711.7 | 711.3  | 711.4 | 711.7 | 711.9 | 712.2 | 712.4 | 713.2 | 714.0 | 714.8 | 715.6 |
| 172.5° | 714.8 | 714.5  | 714.6 | 714.8 | 715.1 | 715.3 | 715.5 | 716.3 | 717.1 | 717.9 | 718.7 |
| 175°   | 716.9 | 716.5  | 716.6 | 716.9 | 717.1 | 717.4 | 717.6 | 718.4 | 719.2 | 720.0 | 720.8 |
| 177.5° | 718.0 | 717.6  | 717.7 | 717.8 | 717.9 | 718.0 | 718.1 | 718.9 | 719.7 | 720.5 | 721.3 |
| 180°   | 718.6 | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1893.9 | 1898.4 | 1887.8 | 1884.7 | 1887.8 | 1877.1 | 1880.1 | 1883.2 | 1883.2 | 1887.8 | 1890.8 |
| 5°     | 1783.9 | 1777.8 | 1767.1 | 1764.0 | 1761.0 | 1765.6 | 1762.5 | 1767.1 | 1768.6 | 1779.3 | 1780.8 |
| 7.5°   | 1675.5 | 1666.3 | 1657.1 | 1648.0 | 1644.9 | 1637.3 | 1644.9 | 1644.9 | 1655.6 | 1652.6 | 1660.2 |
| 10°    | 1547.2 | 1545.6 | 1533.4 | 1528.8 | 1522.7 | 1510.5 | 1527.3 | 1522.7 | 1530.4 | 1544.1 | 1547.2 |
| 12.5°  | 1452.5 | 1435.7 | 1443.3 | 1421.9 | 1429.6 | 1417.3 | 1418.9 | 1418.9 | 1431.1 | 1432.6 | 1429.6 |
| 15°    | 1362.4 | 1348.6 | 1328.8 | 1319.6 | 1315.0 | 1308.9 | 1328.8 | 1330.3 | 1321.1 | 1342.5 | 1334.9 |
| 17.5°  | 1270.7 | 1270.7 | 1252.4 | 1247.8 | 1235.6 | 1241.7 | 1238.7 | 1240.2 | 1237.1 | 1252.4 | 1260.0 |
| 20°    | 1191.3 | 1183.7 | 1177.6 | 1179.1 | 1163.8 | 1160.8 | 1157.7 | 1160.8 | 1171.4 | 1182.1 | 1185.2 |
| 22.5°  | 1127.2 | 1122.6 | 1107.3 | 1110.4 | 1098.1 | 1102.7 | 1099.7 | 1107.3 | 1108.8 | 1108.8 | 1119.5 |
| 25°    | 1066.1 | 1060.0 | 1061.5 | 1055.4 | 1050.8 | 1050.8 | 1046.2 | 1050.8 | 1056.9 | 1060.0 | 1061.5 |
| 27.5°  | 1020.2 | 1015.7 | 1008.0 | 1003.4 | 1006.5 | 998.9  | 1005.0 | 1009.6 | 1009.6 | 1006.5 | 1009.6 |
| 30°    | 965.3  | 968.3  | 968.3  | 953.0  | 959.2  | 956.1  | 960.7  | 963.7  | 963.7  | 965.3  | 962.2  |
| 32.5°  | 928.6  | 919.4  | 917.9  | 916.4  | 916.4  | 910.3  | 910.3  | 914.9  | 916.4  | 917.9  | 922.5  |
| 35°    | 879.7  | 879.7  | 872.1  | 876.7  | 870.6  | 872.1  | 870.6  | 872.1  | 875.1  | 870.6  | 875.1  |
| 37.5°  | 835.4  | 837.0  | 833.9  | 837.0  | 838.5  | 835.4  | 832.4  | 838.5  | 835.4  | 835.4  | 832.4  |
| 40°    | 797.3  | 795.7  | 797.3  | 797.3  | 797.3  | 798.8  | 795.7  | 795.7  | 795.7  | 792.7  | 789.6  |
| 42.5°  | 765.2  | 756.0  | 759.1  | 760.6  | 756.0  | 756.0  | 757.5  | 756.0  | 760.6  | 751.4  | 751.4  |
| 45°    | 719.4  | 716.3  | 717.8  | 717.8  | 720.9  | 716.3  | 719.4  | 720.9  | 716.3  | 714.8  | 711.7  |
| 47.5°  | 678.1  | 681.2  | 678.1  | 681.2  | 681.2  | 684.2  | 678.1  | 679.7  | 681.2  | 675.1  | 670.5  |
| 50°    | 636.9  | 636.9  | 641.5  | 639.9  | 641.5  | 638.4  | 638.4  | 636.9  | 638.4  | 635.4  | 630.8  |
| 52.5°  | 598.7  | 594.1  | 601.8  | 600.2  | 598.7  | 597.2  | 595.7  | 597.2  | 594.1  | 591.1  | 591.1  |
| 55°    | 551.4  | 551.4  | 555.9  | 557.5  | 557.5  | 554.4  | 551.4  | 552.9  | 551.4  | 549.8  | 548.3  |
| 57.5°  | 513.2  | 507.1  | 510.1  | 511.6  | 511.6  | 507.1  | 510.1  | 507.1  | 507.1  | 508.6  | 504.0  |
| 60°    | 464.3  | 464.3  | 461.2  | 465.8  | 465.8  | 462.8  | 462.8  | 464.3  | 461.2  | 459.7  | 458.2  |
| 62.5°  | 412.4  | 413.9  | 418.5  | 420.0  | 421.5  | 418.5  | 415.4  | 417.0  | 417.0  | 412.4  | 413.9  |
| 65°    | 368.1  | 371.1  | 377.2  | 375.7  | 372.7  | 374.2  | 371.1  | 372.7  | 368.1  | 369.6  | 365.0  |
| 67.5°  | 325.3  | 323.8  | 325.3  | 325.3  | 328.4  | 326.8  | 323.8  | 323.8  | 322.3  | 326.8  | 322.3  |
| 70°    | 279.5  | 279.5  | 279.5  | 279.5  | 281.0  | 282.6  | 279.5  | 276.4  | 278.0  | 274.9  | 273.4  |
| 72.5°  | 232.2  | 233.7  | 232.2  | 235.2  | 230.6  | 233.7  | 233.7  | 232.2  | 230.6  | 230.6  | 230.6  |
| 75°    | 187.9  | 190.9  | 186.3  | 187.9  | 186.3  | 189.4  | 187.9  | 187.9  | 184.8  | 183.3  | 184.8  |
| 77.5°  | 143.6  | 145.1  | 142.0  | 143.6  | 142.0  | 143.6  | 143.6  | 142.0  | 142.0  | 142.0  | 142.0  |
| 80°    | 102.3  | 103.9  | 102.3  | 100.8  | 99.3   | 102.3  | 99.3   | 100.8  | 102.3  | 100.8  | 103.9  |
| 82.5°  | 65.7   | 65.7   | 64.1   | 65.7   | 62.6   | 62.6   | 64.1   | 64.1   | 62.6   | 65.7   | 62.6   |
| 85°    | 32.1   | 32.1   | 35.1   | 32.1   | 30.5   | 30.5   | 30.5   | 32.1   | 30.5   | 33.6   | 32.1   |
| 87.5°  | 7.6    | 6.1    | 7.6    | 7.6    | 6.1    | 6.1    | 7.6    | 6.1    | 7.6    | 9.2    | 6.1    |
| 90°    | 13.0   | 13.1   | 13.3   | 13.6   | 13.8   | 14.0   | 13.8   | 13.6   | 13.3   | 13.1   | 13.0   |
| 92.5°  | 13.5   | 13.6   | 13.7   | 13.8   | 13.9   | 14.0   | 13.9   | 13.8   | 13.7   | 13.6   | 13.5   |
| 95°    | 22.9   | 22.8   | 22.7   | 22.6   | 22.5   | 22.4   | 22.5   | 22.6   | 22.7   | 22.8   | 22.9   |
| 97.5°  | 28.1   | 28.2   | 28.3   | 28.4   | 28.5   | 28.6   | 28.5   | 28.4   | 28.3   | 28.2   | 28.1   |
| 100°   | 33.8   | 33.9   | 34.1   | 34.4   | 34.6   | 34.8   | 34.6   | 34.4   | 34.1   | 33.9   | 33.8   |
| 102.5° | 36.4   | 36.6   | 36.9   | 37.3   | 37.6   | 38.0   | 37.6   | 37.3   | 36.9   | 36.6   | 36.4   |
| 105°   | 37.4   | 37.6   | 38.1   | 38.6   | 39.0   | 39.5   | 39.0   | 38.6   | 38.1   | 37.6   | 37.4   |
| 107.5° | 38.5   | 38.7   | 39.2   | 39.7   | 40.1   | 40.6   | 40.1   | 39.7   | 39.2   | 38.7   | 38.5   |
| 110°   | 39.0   | 39.2   | 39.7   | 40.2   | 40.6   | 41.1   | 40.6   | 40.2   | 39.7   | 39.2   | 39.0   |

TEST NUMBER: P997913

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 40.0   | 40.2  | 40.5  | 40.9  | 41.2  | 41.6  | 41.2  | 40.9  | 40.5  | 40.2  | 40.0   |
| 115°   | 80.1   | 75.9  | 67.6  | 59.3  | 50.9  | 42.6  | 50.9  | 59.3  | 67.6  | 75.9  | 80.1   |
| 117.5° | 274.6  | 259.5 | 229.2 | 198.9 | 168.6 | 138.3 | 168.6 | 198.9 | 229.2 | 259.5 | 274.6  |
| 120°   | 387.4  | 379.6 | 364.0 | 348.4 | 332.8 | 317.2 | 332.8 | 348.4 | 364.0 | 379.6 | 387.4  |
| 122.5° | 414.9  | 415.0 | 415.1 | 415.2 | 415.4 | 415.5 | 415.4 | 415.2 | 415.1 | 415.0 | 414.9  |
| 125°   | 443.0  | 443.2 | 443.5 | 443.9 | 444.2 | 444.6 | 444.2 | 443.9 | 443.5 | 443.2 | 443.0  |
| 127.5° | 470.1  | 470.2 | 470.3 | 470.4 | 470.5 | 470.6 | 470.5 | 470.4 | 470.3 | 470.2 | 470.1  |
| 130°   | 495.0  | 494.9 | 494.8 | 494.7 | 494.6 | 494.5 | 494.6 | 494.7 | 494.8 | 494.9 | 495.0  |
| 132.5° | 518.4  | 518.3 | 518.2 | 518.1 | 518.0 | 517.9 | 518.0 | 518.1 | 518.2 | 518.3 | 518.4  |
| 135°   | 541.3  | 541.2 | 541.0 | 540.7 | 540.5 | 540.3 | 540.5 | 540.7 | 541.0 | 541.2 | 541.3  |
| 137.5° | 562.6  | 562.4 | 562.1 | 561.8 | 561.4 | 561.1 | 561.4 | 561.8 | 562.1 | 562.4 | 562.6  |
| 140°   | 582.9  | 582.6 | 582.0 | 581.5 | 580.9 | 580.3 | 580.9 | 581.5 | 582.0 | 582.6 | 582.9  |
| 142.5° | 601.6  | 601.3 | 600.7 | 600.2 | 599.6 | 599.0 | 599.6 | 600.2 | 600.7 | 601.3 | 601.6  |
| 145°   | 618.8  | 618.5 | 617.9 | 617.4 | 616.8 | 616.2 | 616.8 | 617.4 | 617.9 | 618.5 | 618.8  |
| 147.5° | 633.9  | 633.7 | 633.2 | 632.7 | 632.3 | 631.8 | 632.3 | 632.7 | 633.2 | 633.7 | 633.9  |
| 150°   | 648.4  | 648.1 | 647.5 | 647.0 | 646.4 | 645.8 | 646.4 | 647.0 | 647.5 | 648.1 | 648.4  |
| 152.5° | 661.4  | 661.0 | 660.2 | 659.4 | 658.6 | 657.8 | 658.6 | 659.4 | 660.2 | 661.0 | 661.4  |
| 155°   | 672.9  | 672.4 | 671.5 | 670.6 | 669.6 | 668.7 | 669.6 | 670.6 | 671.5 | 672.4 | 672.9  |
| 157.5° | 683.3  | 682.8 | 681.9 | 681.0 | 680.0 | 679.1 | 680.0 | 681.0 | 681.9 | 682.8 | 683.3  |
| 160°   | 691.6  | 691.2 | 690.4 | 689.5 | 688.7 | 687.9 | 688.7 | 689.5 | 690.4 | 691.2 | 691.6  |
| 162.5° | 699.9  | 699.4 | 698.3 | 697.3 | 696.2 | 695.2 | 696.2 | 697.3 | 698.3 | 699.4 | 699.9  |
| 165°   | 706.1  | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 703.3 | 704.1 | 704.9 | 705.7 | 706.1  |
| 167.5° | 711.9  | 711.4 | 710.3 | 709.3 | 708.2 | 707.2 | 708.2 | 709.3 | 710.3 | 711.4 | 711.9  |
| 170°   | 716.0  | 715.5 | 714.4 | 713.4 | 712.3 | 711.3 | 712.3 | 713.4 | 714.4 | 715.5 | 716.0  |
| 172.5° | 719.1  | 718.6 | 717.6 | 716.5 | 715.5 | 714.5 | 715.5 | 716.5 | 717.6 | 718.6 | 719.1  |
| 175°   | 721.2  | 720.6 | 719.5 | 718.3 | 717.2 | 716.0 | 717.2 | 718.3 | 719.5 | 720.6 | 721.2  |
| 177.5° | 721.7  | 721.2 | 720.2 | 719.1 | 718.1 | 717.1 | 718.1 | 719.1 | 720.2 | 721.2 | 721.7  |
| 180°   | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6  |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1886.2 | 1898.4 | 1893.9 | 1877.1 | 1896.9 | 1896.9 | 1910.7 | 1910.7 | 1927.5 | 1933.6 | 1942.7 |
| 5°     | 1779.3 | 1788.5 | 1796.1 | 1788.5 | 1802.2 | 1823.6 | 1835.8 | 1846.5 | 1869.4 | 1878.6 | 1892.3 |
| 7.5°   | 1664.8 | 1681.6 | 1689.2 | 1689.2 | 1712.1 | 1736.6 | 1761.0 | 1776.3 | 1808.3 | 1820.6 | 1834.3 |
| 10°    | 1553.3 | 1573.1 | 1588.4 | 1586.9 | 1625.1 | 1640.3 | 1670.9 | 1706.0 | 1738.1 | 1756.4 | 1776.3 |
| 12.5°  | 1435.7 | 1446.4 | 1467.7 | 1498.3 | 1507.5 | 1534.9 | 1570.1 | 1614.4 | 1672.4 | 1689.2 | 1718.2 |
| 15°    | 1337.9 | 1366.9 | 1383.7 | 1397.5 | 1418.9 | 1444.8 | 1483.0 | 1525.8 | 1583.8 | 1620.5 | 1651.0 |
| 17.5°  | 1255.5 | 1293.6 | 1304.3 | 1301.3 | 1328.8 | 1368.5 | 1412.8 | 1444.8 | 1496.8 | 1541.1 | 1570.1 |
| 20°    | 1188.2 | 1203.5 | 1221.8 | 1229.5 | 1250.9 | 1293.6 | 1336.4 | 1373.1 | 1415.8 | 1450.9 | 1484.5 |
| 22.5°  | 1121.0 | 1133.3 | 1148.5 | 1162.3 | 1179.1 | 1203.5 | 1244.8 | 1290.6 | 1331.8 | 1365.4 | 1403.6 |
| 25°    | 1066.1 | 1073.7 | 1087.4 | 1098.1 | 1116.5 | 1133.3 | 1162.3 | 1212.7 | 1261.6 | 1281.4 | 1315.0 |
| 27.5°  | 1012.6 | 1018.7 | 1027.9 | 1040.1 | 1049.3 | 1066.1 | 1092.0 | 1133.3 | 1183.7 | 1203.5 | 1249.3 |
| 30°    | 965.3  | 969.8  | 979.0  | 985.1  | 989.7  | 1009.6 | 1029.4 | 1061.5 | 1099.7 | 1127.2 | 1160.8 |
| 32.5°  | 921.0  | 925.6  | 934.7  | 936.2  | 942.4  | 953.0  | 971.4  | 1000.4 | 1034.0 | 1056.9 | 1085.9 |
| 35°    | 872.1  | 875.1  | 884.3  | 887.4  | 892.0  | 901.1  | 914.9  | 936.2  | 966.8  | 983.6  | 1009.6 |
| 37.5°  | 833.9  | 832.4  | 838.5  | 843.1  | 849.2  | 853.8  | 858.3  | 879.7  | 902.6  | 917.9  | 937.8  |
| 40°    | 792.7  | 789.6  | 791.1  | 797.3  | 800.3  | 806.4  | 806.4  | 827.8  | 843.1  | 855.3  | 870.6  |
| 42.5°  | 751.4  | 749.9  | 746.9  | 749.9  | 753.0  | 754.5  | 756.0  | 771.3  | 786.6  | 797.3  | 814.1  |
| 45°    | 710.2  | 708.7  | 705.6  | 707.1  | 707.1  | 710.2  | 714.8  | 720.9  | 731.6  | 740.7  | 749.9  |
| 47.5°  | 672.0  | 669.0  | 664.4  | 662.9  | 665.9  | 665.9  | 665.9  | 672.0  | 682.7  | 685.8  | 694.9  |
| 50°    | 632.3  | 627.7  | 621.6  | 618.6  | 618.6  | 617.0  | 620.1  | 621.6  | 630.8  | 633.8  | 641.5  |
| 52.5°  | 589.5  | 586.5  | 580.4  | 574.3  | 575.8  | 572.7  | 574.3  | 575.8  | 578.9  | 583.4  | 588.0  |
| 55°    | 546.8  | 540.7  | 536.1  | 534.6  | 530.0  | 530.0  | 525.4  | 531.5  | 530.0  | 531.5  | 537.6  |
| 57.5°  | 505.5  | 499.4  | 491.8  | 488.7  | 484.2  | 482.6  | 479.6  | 478.0  | 479.6  | 484.2  | 488.7  |
| 60°    | 456.7  | 453.6  | 449.0  | 444.4  | 441.4  | 436.8  | 433.8  | 433.8  | 432.2  | 432.2  | 433.8  |
| 62.5°  | 409.3  | 407.8  | 401.7  | 400.2  | 397.1  | 394.0  | 389.5  | 386.4  | 386.4  | 389.5  | 391.0  |
| 65°    | 363.5  | 362.0  | 357.4  | 355.9  | 348.2  | 345.2  | 343.6  | 342.1  | 339.1  | 339.1  | 339.1  |
| 67.5°  | 320.7  | 316.2  | 316.2  | 308.5  | 302.4  | 299.4  | 296.3  | 294.8  | 294.8  | 294.8  | 296.3  |
| 70°    | 273.4  | 273.4  | 268.8  | 264.2  | 258.1  | 259.6  | 255.1  | 250.5  | 250.5  | 247.4  | 249.0  |
| 72.5°  | 227.6  | 226.0  | 221.5  | 219.9  | 215.4  | 210.8  | 207.7  | 210.8  | 206.2  | 204.7  | 206.2  |
| 75°    | 183.3  | 181.8  | 178.7  | 175.6  | 177.2  | 172.6  | 168.0  | 166.5  | 166.5  | 163.4  | 163.4  |
| 77.5°  | 140.5  | 143.6  | 137.5  | 135.9  | 132.9  | 129.8  | 128.3  | 126.8  | 126.8  | 126.8  | 129.8  |
| 80°    | 97.7   | 99.3   | 99.3   | 96.2   | 97.7   | 93.2   | 93.2   | 93.2   | 88.6   | 90.1   | 91.6   |
| 82.5°  | 62.6   | 62.6   | 61.1   | 62.6   | 61.1   | 61.1   | 59.6   | 59.6   | 58.0   | 58.0   | 59.6   |
| 85°    | 35.1   | 33.6   | 32.1   | 35.1   | 33.6   | 33.6   | 32.1   | 32.1   | 32.1   | 32.1   | 32.1   |
| 87.5°  | 7.6    | 9.2    | 9.2    | 9.2    | 9.2    | 10.7   | 10.7   | 10.7   | 12.2   | 12.2   | 12.2   |
| 90°    | 12.7   | 12.1   | 11.6   | 11.0   | 10.4   | 9.5    | 8.5    | 7.6    | 6.7    | 6.2    | 5.6    |
| 92.5°  | 13.4   | 13.2   | 12.9   | 12.7   | 12.5   | 12.1   | 11.8   | 11.4   | 11.1   | 10.9   | 11.1   |
| 95°    | 22.6   | 22.0   | 21.5   | 20.9   | 20.3   | 19.5   | 18.7   | 17.8   | 17.0   | 16.6   | 18.5   |
| 97.5°  | 27.9   | 27.6   | 27.2   | 26.9   | 26.5   | 24.7   | 22.8   | 21.0   | 19.1   | 18.2   | 22.9   |
| 100°   | 33.3   | 32.4   | 31.5   | 30.5   | 29.6   | 27.6   | 25.7   | 23.7   | 21.8   | 20.8   | 28.7   |
| 102.5° | 35.8   | 34.5   | 33.2   | 32.0   | 30.7   | 51.7   | 72.7   | 93.8   | 114.8  | 125.3  | 125.4  |
| 105°   | 36.8   | 35.5   | 34.2   | 33.0   | 31.7   | 63.3   | 94.8   | 126.4  | 157.9  | 173.7  | 172.0  |
| 107.5° | 37.9   | 36.6   | 35.3   | 34.1   | 32.8   | 71.7   | 110.7  | 149.6  | 188.5  | 208.0  | 206.6  |
| 110°   | 44.8   | 56.3   | 67.9   | 79.4   | 91.0   | 124.4  | 157.8  | 191.2  | 224.6  | 241.3  | 240.1  |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 64.9  | 114.7 | 164.6 | 214.4 | 264.2 | 266.2 | 268.1 | 270.1 | 272.0 | 273.0  | 272.0 |
| 115°   | 106.8 | 160.3 | 213.8 | 267.3 | 320.8 | 317.9 | 315.0 | 312.1 | 309.2 | 307.8  | 306.8 |
| 117.5° | 282.9 | 299.4 | 315.9 | 332.4 | 348.9 | 346.9 | 345.0 | 343.0 | 341.1 | 340.1  | 338.9 |
| 120°   | 386.7 | 385.3 | 383.9 | 382.5 | 381.1 | 379.0 | 377.0 | 374.9 | 372.8 | 371.8  | 370.9 |
| 122.5° | 414.6 | 413.9 | 413.2 | 412.5 | 411.8 | 409.5 | 407.2 | 404.9 | 402.6 | 401.4  | 400.5 |
| 125°   | 442.6 | 441.8 | 441.0 | 440.2 | 439.4 | 437.2 | 435.0 | 432.8 | 430.6 | 429.5  | 428.7 |
| 127.5° | 469.5 | 468.4 | 467.2 | 466.1 | 464.9 | 463.2 | 461.4 | 459.7 | 458.0 | 457.1  | 456.3 |
| 130°   | 494.4 | 493.1 | 491.8 | 490.6 | 489.3 | 488.0 | 486.8 | 485.5 | 484.2 | 483.6  | 482.7 |
| 132.5° | 517.9 | 516.8 | 515.8 | 514.7 | 513.7 | 512.4 | 511.2 | 509.9 | 508.6 | 508.0  | 507.3 |
| 135°   | 540.7 | 539.6 | 538.4 | 537.3 | 536.1 | 535.1 | 534.0 | 533.0 | 531.9 | 531.4  | 530.5 |
| 137.5° | 562.0 | 560.9 | 559.7 | 558.6 | 557.4 | 556.2 | 555.1 | 553.9 | 552.8 | 552.2  | 551.5 |
| 140°   | 582.4 | 581.3 | 580.3 | 579.2 | 578.2 | 576.9 | 575.7 | 574.4 | 573.1 | 572.5  | 572.0 |
| 142.5° | 601.1 | 600.2 | 599.3 | 598.4 | 597.5 | 596.0 | 594.5 | 593.0 | 591.5 | 590.7  | 590.3 |
| 145°   | 618.4 | 617.6 | 616.7 | 615.9 | 615.1 | 613.1 | 611.2 | 609.2 | 607.3 | 606.3  | 606.4 |
| 147.5° | 633.6 | 633.0 | 632.5 | 631.9 | 631.3 | 629.3 | 627.3 | 625.4 | 623.4 | 622.4  | 622.6 |
| 150°   | 648.1 | 647.4 | 646.7 | 646.0 | 645.3 | 643.5 | 641.6 | 639.8 | 637.9 | 637.0  | 637.4 |
| 152.5° | 661.1 | 660.4 | 659.7 | 659.0 | 658.3 | 656.6 | 654.8 | 653.1 | 651.4 | 650.5  | 651.0 |
| 155°   | 672.5 | 671.8 | 671.1 | 670.4 | 669.7 | 668.3 | 666.9 | 665.6 | 664.2 | 663.5  | 664.0 |
| 157.5° | 682.9 | 682.1 | 681.2 | 680.4 | 679.6 | 678.6 | 677.5 | 676.5 | 675.4 | 674.9  | 675.4 |
| 160°   | 691.3 | 690.6 | 689.9 | 689.2 | 688.5 | 687.8 | 687.1 | 686.4 | 685.7 | 685.3  | 685.7 |
| 162.5° | 699.5 | 698.7 | 697.9 | 697.1 | 696.3 | 695.7 | 695.1 | 694.6 | 694.0 | 693.7  | 694.0 |
| 165°   | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 702.1 | 701.8 | 701.4 | 701.1 | 700.9  | 701.3 |
| 167.5° | 711.5 | 710.7 | 709.8 | 709.0 | 708.2 | 707.9 | 707.5 | 707.2 | 706.9 | 706.7  | 707.0 |
| 170°   | 715.6 | 714.8 | 714.0 | 713.2 | 712.4 | 712.2 | 711.9 | 711.7 | 711.4 | 711.3  | 711.7 |
| 172.5° | 718.7 | 717.9 | 717.1 | 716.3 | 715.5 | 715.3 | 715.1 | 714.8 | 714.6 | 714.5  | 714.8 |
| 175°   | 720.8 | 720.0 | 719.2 | 718.4 | 717.6 | 717.4 | 717.1 | 716.9 | 716.6 | 716.5  | 716.9 |
| 177.5° | 721.3 | 720.5 | 719.7 | 718.9 | 718.1 | 718.0 | 717.9 | 717.8 | 717.7 | 717.6  | 718.0 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6  | 718.6 |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1950.4 | 1950.4 | 1973.3 | 1997.7 |
| 5°     | 1907.6 | 1918.3 | 1955.0 | 1988.6 |
| 7.5°   | 1866.4 | 1884.7 | 1930.5 | 1973.3 |
| 10°    | 1816.0 | 1840.4 | 1896.9 | 1947.3 |
| 12.5°  | 1767.1 | 1790.0 | 1855.7 | 1912.2 |
| 15°    | 1698.4 | 1727.4 | 1797.6 | 1867.9 |
| 17.5°  | 1629.6 | 1658.7 | 1744.2 | 1826.7 |
| 20°    | 1548.7 | 1586.9 | 1683.1 | 1793.1 |
| 22.5°  | 1473.9 | 1521.2 | 1628.1 | 1716.7 |
| 25°    | 1391.4 | 1464.7 | 1564.0 | 1678.5 |
| 27.5°  | 1318.1 | 1391.4 | 1492.2 | 1608.3 |
| 30°    | 1235.6 | 1310.4 | 1414.3 | 1521.2 |
| 32.5°  | 1156.2 | 1224.9 | 1325.7 | 1457.1 |
| 35°    | 1073.7 | 1139.4 | 1237.1 | 1370.0 |
| 37.5°  | 998.9  | 1063.0 | 1169.9 | 1292.1 |
| 40°    | 925.6  | 992.8  | 1084.4 | 1206.6 |
| 42.5°  | 856.8  | 916.4  | 998.9  | 1121.0 |
| 45°    | 794.2  | 837.0  | 913.3  | 1027.9 |
| 47.5°  | 728.5  | 766.7  | 837.0  | 951.5  |
| 50°    | 667.4  | 699.5  | 760.6  | 867.5  |
| 52.5°  | 607.9  | 635.4  | 691.9  | 777.4  |
| 55°    | 554.4  | 580.4  | 621.6  | 705.6  |
| 57.5°  | 499.4  | 519.3  | 559.0  | 626.2  |
| 60°    | 446.0  | 464.3  | 496.4  | 551.4  |
| 62.5°  | 392.5  | 407.8  | 438.3  | 482.6  |
| 65°    | 345.2  | 357.4  | 380.3  | 418.5  |
| 67.5°  | 299.4  | 307.0  | 325.3  | 355.9  |
| 70°    | 255.1  | 261.2  | 276.4  | 300.9  |
| 72.5°  | 207.7  | 213.8  | 230.6  | 247.4  |
| 75°    | 168.0  | 169.5  | 181.8  | 195.5  |
| 77.5°  | 131.3  | 129.8  | 139.0  | 149.7  |
| 80°    | 90.1   | 94.7   | 102.3  | 106.9  |
| 82.5°  | 61.1   | 62.6   | 65.7   | 68.7   |
| 85°    | 33.6   | 35.1   | 35.1   | 39.7   |
| 87.5°  | 13.7   | 15.3   | 15.3   | 16.8   |
| 90°    | 4.3    | 3.0    | 1.8    | 0.5    |
| 92.5°  | 11.6   | 12.1   | 12.5   | 13.0   |
| 95°    | 22.3   | 26.2   | 30.0   | 33.8   |
| 97.5°  | 32.4   | 41.9   | 51.3   | 60.8   |
| 100°   | 44.5   | 60.4   | 76.2   | 92.0   |
| 102.5° | 125.7  | 125.9  | 126.2  | 126.4  |
| 105°   | 168.5  | 165.0  | 161.6  | 158.1  |
| 107.5° | 203.7  | 200.8  | 197.9  | 195.0  |
| 110°   | 237.7  | 235.2  | 232.8  | 230.4  |



TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 269.9 | 267.8 | 265.7 | 263.6 |
| 115°   | 304.9 | 302.9 | 301.0 | 299.0 |
| 117.5° | 336.6 | 334.3 | 332.0 | 329.7 |
| 120°   | 369.2 | 367.5 | 365.7 | 364.0 |
| 122.5° | 398.6 | 396.8 | 394.9 | 393.1 |
| 125°   | 427.2 | 425.7 | 424.2 | 422.7 |
| 127.5° | 454.7 | 453.0 | 451.4 | 449.8 |
| 130°   | 480.8 | 479.0 | 477.1 | 475.3 |
| 132.5° | 505.8 | 504.3 | 502.8 | 501.3 |
| 135°   | 528.6 | 526.8 | 524.9 | 523.1 |
| 137.5° | 550.1 | 548.8 | 547.4 | 546.0 |
| 140°   | 571.1 | 570.2 | 569.2 | 568.3 |
| 142.5° | 589.5 | 588.7 | 587.9 | 587.1 |
| 145°   | 606.5 | 606.6 | 606.7 | 606.8 |
| 147.5° | 622.9 | 623.3 | 623.6 | 624.0 |
| 150°   | 638.2 | 639.0 | 639.8 | 640.6 |
| 152.5° | 651.9 | 652.8 | 653.8 | 654.7 |
| 155°   | 665.1 | 666.1 | 667.2 | 668.2 |
| 157.5° | 676.3 | 677.2 | 678.2 | 679.1 |
| 160°   | 686.4 | 687.1 | 687.8 | 688.5 |
| 162.5° | 694.7 | 695.4 | 696.1 | 696.8 |
| 165°   | 702.0 | 702.7 | 703.4 | 704.1 |
| 167.5° | 707.7 | 708.4 | 709.1 | 709.8 |
| 170°   | 712.4 | 713.1 | 713.8 | 714.5 |
| 172.5° | 715.5 | 716.2 | 716.9 | 717.6 |
| 175°   | 717.7 | 718.6 | 719.4 | 720.2 |
| 177.5° | 718.8 | 719.6 | 720.4 | 721.2 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P997913

CATALOG NUMBER: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-A\_4000K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 19.33            | 20.32 | 20.13 | 21.14 | 22.14 | 16.82          | 17.81 | 17.62 | 18.63 | 19.63 |
|                 | 3H   | 20.15            | 21.04 | 20.96 | 21.86 | 22.89 | 18.17          | 19.06 | 18.99 | 19.89 | 20.92 |
|                 | 4H   | 20.32            | 21.16 | 21.15 | 21.99 | 23.03 | 18.64          | 19.48 | 19.47 | 20.31 | 21.35 |
|                 | 6H   | 20.38            | 21.15 | 21.22 | 21.99 | 23.04 | 18.96          | 19.73 | 19.80 | 20.57 | 21.62 |
|                 | 8H   | 20.36            | 21.09 | 21.21 | 21.95 | 23.01 | 19.04          | 19.78 | 19.89 | 20.64 | 21.69 |
|                 | 12H  | 20.33            | 21.03 | 21.18 | 21.88 | 22.96 | 19.09          | 19.79 | 19.95 | 20.64 | 21.72 |
| 4H              | 2H   | 19.38            | 20.22 | 20.22 | 21.06 | 22.10 | 17.28          | 18.12 | 18.11 | 18.95 | 19.99 |
|                 | 3H   | 20.38            | 21.07 | 21.22 | 21.94 | 23.00 | 18.75          | 19.45 | 19.60 | 20.32 | 21.37 |
|                 | 4H   | 20.66            | 21.29 | 21.52 | 22.16 | 23.24 | 19.29          | 19.93 | 20.15 | 20.79 | 21.87 |
|                 | 6H   | 20.80            | 21.34 | 21.67 | 22.23 | 23.32 | 19.68          | 20.23 | 20.55 | 21.11 | 22.20 |
|                 | 8H   | 20.80            | 21.31 | 21.67 | 22.19 | 23.29 | 19.79          | 20.30 | 20.67 | 21.19 | 22.29 |
|                 | 12H  | 20.77            | 21.23 | 21.66 | 22.13 | 23.23 | 19.86          | 20.32 | 20.75 | 21.22 | 22.32 |
| 8H              | 4H   | 20.68            | 21.19 | 21.55 | 22.07 | 23.17 | 19.45          | 19.96 | 20.32 | 20.84 | 21.94 |
|                 | 6H   | 20.86            | 21.28 | 21.76 | 22.21 | 23.31 | 19.89          | 20.31 | 20.79 | 21.23 | 22.33 |
|                 | 8H   | 20.89            | 21.26 | 21.81 | 22.18 | 23.30 | 20.04          | 20.41 | 20.95 | 21.33 | 22.44 |
|                 | 12H  | 20.88            | 21.21 | 21.80 | 22.12 | 23.29 | 20.14          | 20.46 | 21.05 | 21.37 | 22.54 |
| 12H             | 4H   | 20.64            | 21.10 | 21.54 | 22.00 | 23.11 | 19.43          | 19.89 | 20.32 | 20.79 | 21.89 |
|                 | 6H   | 20.84            | 21.21 | 21.75 | 22.13 | 23.25 | 19.89          | 20.26 | 20.80 | 21.18 | 22.29 |
|                 | 8H   | 20.88            | 21.21 | 21.79 | 22.12 | 23.29 | 20.05          | 20.38 | 20.97 | 21.29 | 22.46 |