

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: P1037613

Luminaire Tested: S124DS-B1195DB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1037613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DS-B1195DB2750-4F0-XX-W2A-A\_3000K  
Description: Define 4 Direct Surface with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

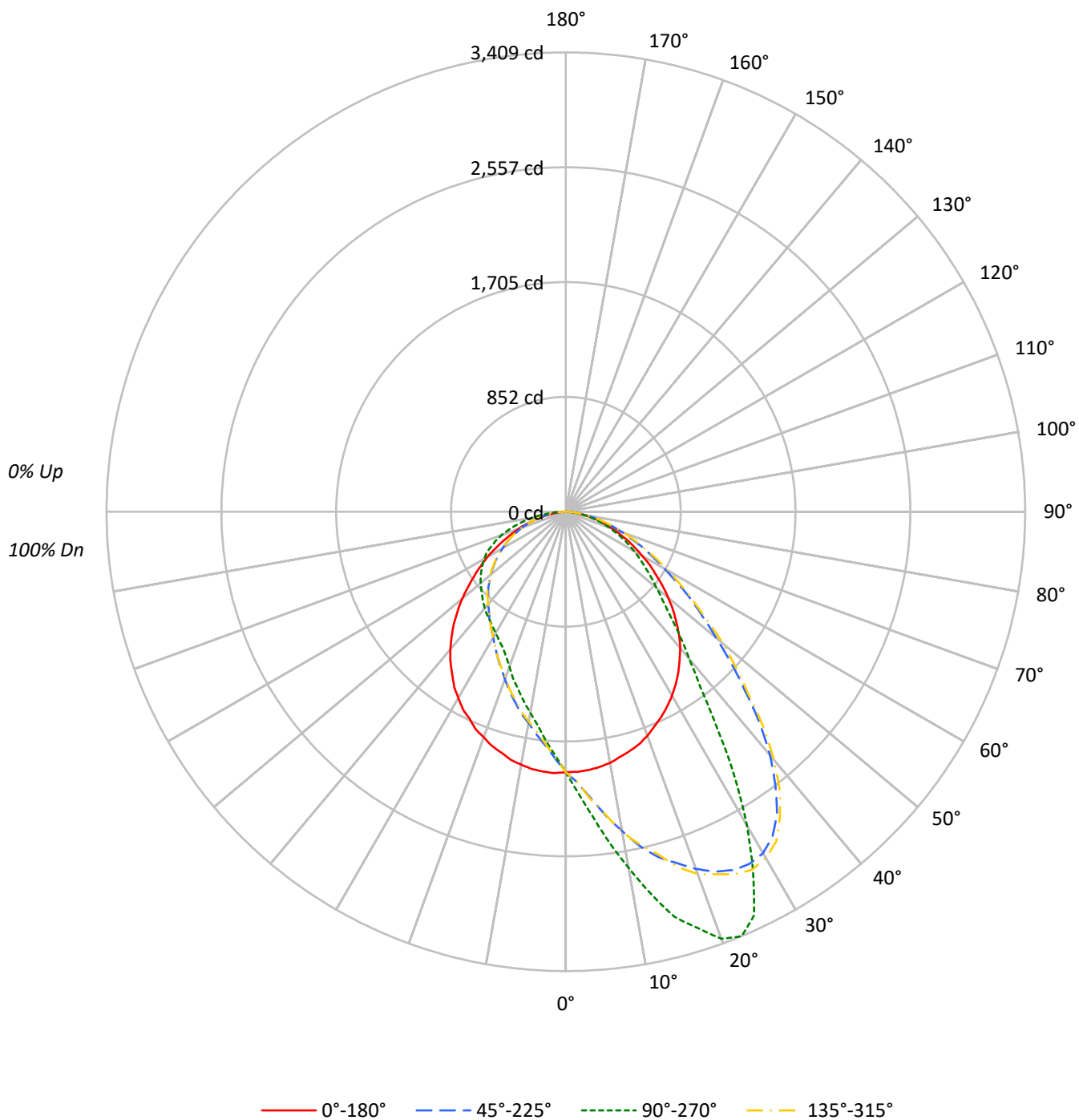
Lumens per Lamp: N/A  
Luminaire Lumens: 5330.0 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.3  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1037613

CATALOG NUMBER: S124DS-B1195DB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1037613

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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |  | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  |  | 85  |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 84  | 79  | 87  | 82  | 78  |  | 84  | 79  | 76  |  | 81  | 77  | 74  |  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  | 67  | 64  |  | 62  |
| 4   | 84  | 73  | 64  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 55  |  | 53  |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 50  |  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 46  |
| 6   | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  |  | 55  | 48  | 43  |  | 53  | 47  | 43  |  | 41  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 52  | 44  | 39  |  | 50  | 44  | 39  |  | 49  | 43  | 38  |  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  |  | 46  | 40  | 35  |  | 45  | 39  | 35  |  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  | 36  | 31  |  | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  |  | 39  | 33  | 29  |  | 39  | 33  | 29  |  | 27  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 15751 | 15751 | 15751 | 15751 |
| 5°  | 15746 | 18549 | 15838 | 13938 |
| 10° | 15663 | 22209 | 15782 | 12549 |
| 15° | 15509 | 26277 | 15617 | 11524 |
| 20° | 15345 | 29260 | 15456 | 10609 |
| 25° | 15090 | 29733 | 15234 | 9978  |
| 30° | 14842 | 25300 | 15023 | 9779  |
| 35° | 14481 | 19452 | 14640 | 9782  |
| 40° | 14053 | 15162 | 14190 | 9966  |
| 45° | 13380 | 12642 | 13546 | 10132 |
| 50° | 12567 | 11126 | 12750 | 10476 |
| 55° | 11604 | 10192 | 11786 | 10897 |
| 60° | 10674 | 9552  | 10987 | 11405 |
| 65° | 9819  | 8893  | 9912  | 11826 |
| 70° | 8814  | 8128  | 9005  | 12095 |
| 75° | 7864  | 7259  | 7814  | 11950 |
| 80° | 6462  | 6086  | 6387  | 11571 |
| 85° | 4790  | 4491  | 4491  | 11078 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 24324 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 188.0  | 3.5       |
| 10°-20°   | 580.2  | 10.9      |
| 20°-30°   | 921.8  | 17.3      |
| 30°-40°   | 1024.3 | 19.2      |
| 40°-50°   | 931.5  | 17.5      |
| 50°-60°   | 761.2  | 14.3      |
| 60°-70°   | 543.3  | 10.2      |
| 70°-80°   | 299.0  | 5.6       |
| 80°-90°   | 80.8   | 1.5       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1690.0 | 31.7      |
| 0°-40°    | 2714.3 | 50.9      |
| 0°-60°    | 4406.9 | 82.7      |
| 0°-90°    | 5330.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5330.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1932 | 1932 | 1932 | 1932 | 1932 |      |
| 5°  | 1924 | 2266 | 1935 | 1703 | 1924 | 183  |
| 15° | 1837 | 3113 | 1850 | 1365 | 1837 | 518  |
| 25° | 1677 | 3305 | 1693 | 1109 | 1677 | 773  |
| 35° | 1455 | 1954 | 1471 | 983  | 1455 | 909  |
| 45° | 1160 | 1096 | 1175 | 879  | 1160 | 895  |
| 55° | 816  | 717  | 829  | 766  | 816  | 734  |
| 65° | 509  | 461  | 514  | 613  | 509  | 503  |
| 75° | 250  | 230  | 248  | 379  | 250  | 262  |
| 85° | 51   | 48   | 48   | 118  | 51   | 63   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 1931.6 | 1950.8 | 1958.8 | 1965.2 | 1986.0 | 1992.4 | 1994.0 | 2003.6 | 2011.6 | 2013.2 | 2013.2 |
| 5°    | 1923.6 | 1954.0 | 1978.0 | 2000.4 | 2034.0 | 2048.4 | 2066.0 | 2085.2 | 2110.8 | 2126.8 | 2134.8 |
| 7.5°  | 1910.8 | 1955.6 | 1992.4 | 2030.8 | 2077.2 | 2106.0 | 2122.0 | 2173.2 | 2208.4 | 2237.2 | 2272.4 |
| 10°   | 1891.6 | 1949.2 | 2002.0 | 2058.0 | 2123.6 | 2158.8 | 2194.0 | 2256.4 | 2306.0 | 2362.0 | 2406.8 |
| 12.5° | 1862.7 | 1938.0 | 2002.0 | 2080.4 | 2162.0 | 2203.6 | 2245.2 | 2354.0 | 2411.6 | 2461.3 | 2541.3 |
| 15°   | 1837.1 | 1912.4 | 2003.6 | 2083.6 | 2184.4 | 2246.8 | 2307.6 | 2378.0 | 2469.3 | 2576.5 | 2653.3 |
| 17.5° | 1808.3 | 1902.8 | 1987.6 | 2099.6 | 2211.6 | 2270.8 | 2320.4 | 2429.3 | 2557.3 | 2662.9 | 2733.3 |
| 20°   | 1768.3 | 1864.3 | 1976.4 | 2094.8 | 2227.6 | 2274.0 | 2339.6 | 2485.3 | 2600.5 | 2704.5 | 2819.7 |
| 22.5° | 1721.9 | 1833.9 | 1952.4 | 2066.0 | 2203.6 | 2301.2 | 2373.2 | 2501.3 | 2640.5 | 2760.5 | 2890.1 |
| 25°   | 1677.1 | 1798.7 | 1902.8 | 2058.0 | 2203.6 | 2269.2 | 2350.8 | 2502.9 | 2654.9 | 2800.5 | 2933.3 |
| 27.5° | 1629.1 | 1742.7 | 1883.6 | 2006.8 | 2171.6 | 2243.6 | 2331.6 | 2498.1 | 2659.7 | 2805.3 | 2947.7 |
| 30°   | 1576.3 | 1697.9 | 1814.7 | 1960.4 | 2120.4 | 2213.2 | 2294.8 | 2475.7 | 2640.5 | 2792.5 | 2925.3 |
| 32.5° | 1517.1 | 1632.3 | 1757.1 | 1894.8 | 2062.8 | 2157.2 | 2259.6 | 2445.3 | 2621.3 | 2752.5 | 2854.9 |
| 35°   | 1454.7 | 1571.5 | 1680.3 | 1821.1 | 1994.0 | 2088.4 | 2187.6 | 2392.4 | 2566.9 | 2674.1 | 2733.3 |
| 37.5° | 1385.9 | 1496.3 | 1603.5 | 1742.7 | 1915.6 | 2016.4 | 2117.2 | 2315.6 | 2480.5 | 2570.1 | 2554.1 |
| 40°   | 1320.2 | 1419.5 | 1518.7 | 1649.9 | 1830.7 | 1938.0 | 2026.0 | 2226.0 | 2370.0 | 2408.4 | 2355.6 |
| 42.5° | 1245.0 | 1329.8 | 1425.9 | 1560.3 | 1736.3 | 1837.1 | 1947.6 | 2130.0 | 2237.2 | 2221.2 | 2131.6 |
| 45°   | 1160.2 | 1235.4 | 1331.4 | 1457.9 | 1637.1 | 1741.1 | 1833.9 | 2006.8 | 2085.2 | 2045.2 | 1882.0 |
| 47.5° | 1078.6 | 1152.2 | 1230.6 | 1357.1 | 1531.5 | 1619.5 | 1713.9 | 1869.1 | 1914.0 | 1829.1 | 1665.9 |
| 50°   | 990.6  | 1051.4 | 1133.0 | 1253.0 | 1416.3 | 1509.1 | 1587.5 | 1712.3 | 1728.3 | 1624.3 | 1454.7 |
| 52.5° | 905.8  | 957.0  | 1035.4 | 1153.8 | 1305.8 | 1379.5 | 1456.3 | 1566.7 | 1553.9 | 1446.7 | 1283.4 |
| 55°   | 816.2  | 864.2  | 936.2  | 1045.0 | 1179.4 | 1249.8 | 1315.4 | 1413.1 | 1385.9 | 1275.4 | 1133.0 |
| 57.5° | 740.9  | 774.5  | 845.0  | 945.8  | 1056.2 | 1133.0 | 1189.0 | 1265.8 | 1224.2 | 1113.8 | 981.0  |
| 60°   | 654.5  | 696.1  | 755.3  | 837.0  | 945.8  | 997.0  | 1046.6 | 1097.8 | 1069.0 | 963.4  | 845.0  |
| 62.5° | 576.1  | 608.1  | 659.3  | 737.7  | 822.6  | 869.0  | 921.8  | 953.8  | 925.0  | 827.4  | 728.1  |
| 65°   | 508.9  | 534.5  | 574.5  | 638.5  | 720.1  | 758.5  | 788.9  | 819.4  | 795.3  | 704.1  | 632.1  |
| 67.5° | 435.3  | 457.7  | 491.3  | 542.5  | 611.3  | 638.5  | 667.3  | 688.1  | 660.9  | 600.1  | 529.7  |
| 70°   | 369.7  | 385.7  | 417.7  | 456.1  | 504.1  | 529.7  | 553.7  | 574.5  | 550.5  | 499.3  | 446.5  |
| 72.5° | 302.5  | 315.3  | 344.1  | 371.3  | 414.5  | 432.1  | 449.7  | 465.7  | 457.7  | 409.7  | 366.5  |
| 75°   | 249.6  | 254.4  | 273.7  | 296.1  | 323.3  | 342.5  | 355.3  | 364.9  | 358.5  | 320.1  | 292.9  |
| 77.5° | 188.8  | 195.2  | 209.6  | 227.2  | 251.2  | 262.4  | 270.5  | 280.1  | 272.1  | 241.6  | 222.4  |
| 80°   | 137.6  | 139.2  | 147.2  | 163.2  | 179.2  | 180.8  | 188.8  | 201.6  | 196.8  | 176.0  | 161.6  |
| 82.5° | 88.0   | 92.8   | 96.0   | 105.6  | 116.8  | 120.0  | 124.8  | 128.0  | 126.4  | 113.6  | 108.8  |
| 85°   | 51.2   | 51.2   | 54.4   | 60.8   | 64.0   | 68.8   | 70.4   | 72.0   | 75.2   | 67.2   | 62.4   |
| 87.5° | 22.4   | 24.0   | 24.0   | 25.6   | 28.8   | 28.8   | 30.4   | 32.0   | 33.6   | 32.0   | 27.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 2018.0 | 2046.8 | 2059.6 | 2062.8 | 2080.4 | 2069.2 | 2074.0 | 2072.4 | 2085.2 | 2086.8 | 2086.8 |
| 5°    | 2165.2 | 2198.8 | 2210.0 | 2226.0 | 2250.0 | 2256.4 | 2251.6 | 2261.2 | 2278.8 | 2266.0 | 2285.2 |
| 7.5°  | 2320.4 | 2357.2 | 2382.8 | 2418.1 | 2426.1 | 2446.9 | 2459.7 | 2470.9 | 2474.1 | 2475.7 | 2478.9 |
| 10°   | 2464.5 | 2510.9 | 2546.1 | 2605.3 | 2618.1 | 2629.3 | 2685.3 | 2662.9 | 2691.7 | 2682.1 | 2685.3 |
| 12.5° | 2581.3 | 2672.5 | 2701.3 | 2800.5 | 2810.1 | 2848.5 | 2845.3 | 2880.5 | 2886.9 | 2899.7 | 2886.9 |
| 15°   | 2734.9 | 2840.5 | 2886.9 | 2942.9 | 2975.0 | 3019.8 | 3027.8 | 3075.8 | 3095.0 | 3112.6 | 3095.0 |
| 17.5° | 2875.7 | 2931.7 | 3050.2 | 3095.0 | 3115.8 | 3139.8 | 3200.6 | 3218.2 | 3247.0 | 3235.8 | 3267.8 |
| 20°   | 2946.1 | 3026.2 | 3151.0 | 3227.8 | 3259.8 | 3282.2 | 3333.4 | 3360.6 | 3371.8 | 3371.8 | 3375.0 |
| 22.5° | 3008.6 | 3123.8 | 3216.6 | 3304.6 | 3333.4 | 3349.4 | 3379.8 | 3400.6 | 3405.4 | 3408.6 | 3411.8 |
| 25°   | 3064.6 | 3168.6 | 3243.8 | 3293.4 | 3304.6 | 3304.6 | 3322.2 | 3309.4 | 3288.6 | 3304.6 | 3314.2 |
| 27.5° | 3064.6 | 3138.2 | 3171.8 | 3189.4 | 3189.4 | 3146.2 | 3120.6 | 3067.8 | 3023.0 | 3010.2 | 3039.0 |
| 30°   | 3013.4 | 3047.0 | 3000.6 | 2957.4 | 2923.7 | 2894.9 | 2794.1 | 2714.1 | 2698.1 | 2686.9 | 2730.1 |
| 32.5° | 2894.9 | 2851.7 | 2760.5 | 2635.7 | 2586.1 | 2520.5 | 2442.1 | 2381.2 | 2344.4 | 2331.6 | 2322.0 |
| 35°   | 2685.3 | 2573.3 | 2454.9 | 2286.8 | 2251.6 | 2168.4 | 2061.2 | 2016.4 | 1955.6 | 1954.0 | 1974.8 |
| 37.5° | 2456.5 | 2283.6 | 2155.6 | 1995.6 | 1946.0 | 1857.9 | 1757.1 | 1710.7 | 1669.1 | 1637.1 | 1675.5 |
| 40°   | 2189.2 | 2038.8 | 1843.5 | 1712.3 | 1641.9 | 1595.5 | 1510.7 | 1459.5 | 1440.3 | 1424.3 | 1448.3 |
| 42.5° | 1939.6 | 1774.7 | 1622.7 | 1488.3 | 1430.7 | 1377.9 | 1321.8 | 1272.2 | 1257.8 | 1256.2 | 1273.8 |
| 45°   | 1691.5 | 1529.9 | 1389.1 | 1273.8 | 1237.0 | 1205.0 | 1150.6 | 1136.2 | 1112.2 | 1096.2 | 1104.2 |
| 47.5° | 1493.1 | 1326.6 | 1209.8 | 1121.8 | 1089.8 | 1062.6 | 1027.4 | 1003.4 | 982.6  | 976.2  | 985.8  |
| 50°   | 1297.8 | 1185.8 | 1065.8 | 992.2  | 968.2  | 942.6  | 915.4  | 893.0  | 883.4  | 877.0  | 883.4  |
| 52.5° | 1141.0 | 1021.0 | 939.4  | 880.2  | 856.2  | 837.0  | 817.8  | 808.2  | 795.3  | 798.5  | 804.9  |
| 55°   | 1000.2 | 894.6  | 825.8  | 782.5  | 768.1  | 760.1  | 736.1  | 724.9  | 720.1  | 716.9  | 720.1  |
| 57.5° | 867.4  | 790.5  | 739.3  | 702.5  | 683.3  | 678.5  | 659.3  | 659.3  | 654.5  | 649.7  | 651.3  |
| 60°   | 761.7  | 696.1  | 646.5  | 617.7  | 614.5  | 606.5  | 593.7  | 592.1  | 580.9  | 585.7  | 587.3  |
| 62.5° | 654.5  | 601.7  | 568.1  | 550.5  | 539.3  | 536.1  | 528.1  | 526.5  | 521.7  | 523.3  | 520.1  |
| 65°   | 569.7  | 526.5  | 492.9  | 478.5  | 473.7  | 472.1  | 465.7  | 460.9  | 457.7  | 460.9  | 457.7  |
| 67.5° | 484.9  | 456.1  | 430.5  | 416.1  | 409.7  | 408.1  | 403.3  | 400.1  | 401.7  | 396.9  | 400.1  |
| 70°   | 404.9  | 376.1  | 360.1  | 352.1  | 348.9  | 344.1  | 344.1  | 344.1  | 344.1  | 340.9  | 339.3  |
| 72.5° | 340.9  | 312.1  | 300.9  | 296.1  | 292.9  | 291.3  | 286.5  | 288.1  | 286.5  | 284.9  | 291.3  |
| 75°   | 270.5  | 252.8  | 241.6  | 236.8  | 240.0  | 235.2  | 230.4  | 233.6  | 228.8  | 230.4  | 236.8  |
| 77.5° | 204.8  | 196.8  | 190.4  | 187.2  | 184.0  | 180.8  | 180.8  | 177.6  | 177.6  | 177.6  | 177.6  |
| 80°   | 148.8  | 147.2  | 136.0  | 134.4  | 134.4  | 131.2  | 131.2  | 131.2  | 131.2  | 129.6  | 131.2  |
| 82.5° | 99.2   | 97.6   | 94.4   | 92.8   | 89.6   | 91.2   | 91.2   | 88.0   | 88.0   | 86.4   | 88.0   |
| 85°   | 57.6   | 57.6   | 54.4   | 52.8   | 51.2   | 52.8   | 49.6   | 48.0   | 49.6   | 48.0   | 49.6   |
| 87.5° | 27.2   | 24.0   | 25.6   | 24.0   | 20.8   | 22.4   | 19.2   | 20.8   | 19.2   | 17.6   | 20.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 2083.6 | 2078.8 | 2072.4 | 2072.4 | 2064.4 | 2064.4 | 2051.6 | 2029.2 | 2010.0 | 2003.6 | 2006.8 |
| 5°    | 2261.2 | 2262.8 | 2253.2 | 2245.2 | 2230.8 | 2219.6 | 2198.8 | 2158.8 | 2146.0 | 2120.4 | 2102.8 |
| 7.5°  | 2464.5 | 2458.1 | 2440.5 | 2427.7 | 2424.5 | 2398.8 | 2354.0 | 2306.0 | 2267.6 | 2242.0 | 2205.2 |
| 10°   | 2693.3 | 2667.7 | 2642.1 | 2634.1 | 2614.9 | 2571.7 | 2520.5 | 2467.7 | 2414.8 | 2358.8 | 2296.4 |
| 12.5° | 2885.3 | 2835.7 | 2834.1 | 2814.9 | 2778.1 | 2754.1 | 2693.3 | 2618.1 | 2526.9 | 2464.5 | 2394.0 |
| 15°   | 3091.8 | 3045.4 | 3007.0 | 2971.8 | 2954.2 | 2883.7 | 2832.5 | 2738.1 | 2629.3 | 2562.1 | 2514.1 |
| 17.5° | 3239.0 | 3218.2 | 3152.6 | 3136.6 | 3112.6 | 3031.0 | 2949.3 | 2856.5 | 2762.1 | 2667.7 | 2538.1 |
| 20°   | 3357.4 | 3344.6 | 3301.4 | 3279.0 | 3240.6 | 3176.6 | 3077.4 | 2970.2 | 2861.3 | 2726.9 | 2605.3 |
| 22.5° | 3408.6 | 3392.6 | 3357.4 | 3338.2 | 3314.2 | 3259.8 | 3175.0 | 3053.4 | 2910.9 | 2790.9 | 2661.3 |
| 25°   | 3307.8 | 3336.6 | 3327.0 | 3319.0 | 3309.4 | 3277.4 | 3213.4 | 3106.2 | 2967.0 | 2830.9 | 2669.3 |
| 27.5° | 3080.6 | 3130.2 | 3178.2 | 3184.6 | 3200.6 | 3213.4 | 3187.8 | 3111.0 | 2994.2 | 2850.1 | 2672.5 |
| 30°   | 2774.9 | 2797.3 | 2894.9 | 2923.7 | 2946.1 | 3027.8 | 3075.8 | 3056.6 | 2967.0 | 2837.3 | 2674.1 |
| 32.5° | 2382.8 | 2442.1 | 2541.3 | 2610.1 | 2670.9 | 2762.1 | 2886.9 | 2936.5 | 2904.5 | 2798.9 | 2637.3 |
| 35°   | 2011.6 | 2082.0 | 2197.2 | 2285.2 | 2346.0 | 2475.7 | 2622.9 | 2730.1 | 2770.1 | 2717.3 | 2573.3 |
| 37.5° | 1707.5 | 1792.3 | 1894.8 | 1928.4 | 1998.8 | 2158.8 | 2362.0 | 2510.9 | 2608.5 | 2613.3 | 2501.3 |
| 40°   | 1478.7 | 1521.9 | 1603.5 | 1654.7 | 1723.5 | 1857.9 | 2056.4 | 2253.2 | 2400.4 | 2450.1 | 2390.8 |
| 42.5° | 1285.0 | 1318.6 | 1379.5 | 1441.9 | 1504.3 | 1606.7 | 1789.1 | 1973.2 | 2171.6 | 2270.8 | 2269.2 |
| 45°   | 1131.4 | 1166.6 | 1208.2 | 1259.4 | 1302.6 | 1413.1 | 1557.1 | 1745.9 | 1917.2 | 2070.8 | 2109.2 |
| 47.5° | 997.0  | 1027.4 | 1078.6 | 1101.0 | 1129.8 | 1233.8 | 1358.7 | 1534.7 | 1712.3 | 1888.4 | 1933.2 |
| 50°   | 897.8  | 923.4  | 958.6  | 973.0  | 1005.0 | 1081.8 | 1184.2 | 1326.6 | 1523.5 | 1685.1 | 1768.3 |
| 52.5° | 808.2  | 827.4  | 854.6  | 865.8  | 888.2  | 945.8  | 1038.6 | 1150.6 | 1313.8 | 1480.3 | 1597.1 |
| 55°   | 731.3  | 744.1  | 763.3  | 776.1  | 792.1  | 843.4  | 912.2  | 1013.0 | 1153.8 | 1297.8 | 1411.5 |
| 57.5° | 659.3  | 668.9  | 688.1  | 694.5  | 707.3  | 747.3  | 795.3  | 880.2  | 1009.8 | 1137.8 | 1248.2 |
| 60°   | 592.1  | 598.5  | 609.7  | 624.1  | 633.7  | 660.9  | 705.7  | 776.1  | 880.2  | 997.0  | 1086.6 |
| 62.5° | 528.1  | 537.7  | 540.9  | 547.3  | 555.3  | 580.9  | 616.1  | 667.3  | 758.5  | 854.6  | 949.0  |
| 65°   | 462.5  | 470.5  | 476.9  | 478.5  | 486.5  | 505.7  | 537.7  | 582.5  | 641.7  | 724.9  | 813.0  |
| 67.5° | 401.7  | 406.5  | 409.7  | 416.1  | 424.1  | 433.7  | 459.3  | 492.9  | 547.3  | 614.5  | 684.9  |
| 70°   | 345.7  | 345.7  | 350.5  | 352.1  | 361.7  | 372.9  | 384.1  | 416.1  | 464.1  | 518.5  | 566.5  |
| 72.5° | 284.9  | 292.9  | 291.3  | 299.3  | 297.7  | 305.7  | 320.1  | 340.9  | 376.1  | 419.3  | 465.7  |
| 75°   | 232.0  | 236.8  | 236.8  | 236.8  | 240.0  | 246.4  | 254.4  | 273.7  | 300.9  | 336.1  | 363.3  |
| 77.5° | 180.8  | 184.0  | 184.0  | 184.0  | 185.6  | 192.0  | 200.0  | 212.8  | 232.0  | 252.8  | 268.9  |
| 80°   | 129.6  | 132.8  | 132.8  | 136.0  | 136.0  | 137.6  | 145.6  | 152.0  | 161.6  | 177.6  | 193.6  |
| 82.5° | 88.0   | 89.6   | 92.8   | 92.8   | 91.2   | 94.4   | 96.0   | 102.4  | 112.0  | 115.2  | 126.4  |
| 85°   | 48.0   | 49.6   | 51.2   | 51.2   | 52.8   | 56.0   | 54.4   | 60.8   | 60.8   | 67.2   | 70.4   |
| 87.5° | 19.2   | 22.4   | 22.4   | 20.8   | 22.4   | 22.4   | 22.4   | 25.6   | 27.2   | 28.8   | 27.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 1992.4 | 1986.0 | 1981.2 | 1981.2 | 1966.8 | 1952.4 | 1944.4 | 1941.2 | 1938.0 | 1925.2 | 1907.6 |
| 5°    | 2074.0 | 2053.2 | 2038.8 | 2024.4 | 2000.4 | 1974.8 | 1949.2 | 1934.8 | 1914.0 | 1885.2 | 1864.3 |
| 7.5°  | 2165.2 | 2115.6 | 2099.6 | 2082.0 | 2034.0 | 1990.8 | 1955.6 | 1925.2 | 1891.6 | 1854.7 | 1817.9 |
| 10°   | 2242.0 | 2189.2 | 2154.0 | 2123.6 | 2061.2 | 2003.6 | 1950.8 | 1906.0 | 1862.7 | 1814.7 | 1769.9 |
| 12.5° | 2315.6 | 2240.4 | 2203.6 | 2158.8 | 2093.2 | 2010.0 | 1941.2 | 1885.2 | 1821.1 | 1771.5 | 1717.1 |
| 15°   | 2418.1 | 2291.6 | 2230.8 | 2202.0 | 2114.0 | 2016.4 | 1933.2 | 1849.9 | 1797.1 | 1721.9 | 1673.9 |
| 17.5° | 2434.1 | 2331.6 | 2291.6 | 2218.0 | 2112.4 | 2002.0 | 1906.0 | 1822.7 | 1742.7 | 1675.5 | 1613.1 |
| 20°   | 2490.1 | 2355.6 | 2291.6 | 2245.2 | 2106.0 | 1994.0 | 1888.4 | 1781.1 | 1704.3 | 1632.3 | 1561.9 |
| 22.5° | 2525.3 | 2373.2 | 2306.0 | 2232.4 | 2099.6 | 1965.2 | 1840.3 | 1747.5 | 1653.1 | 1579.5 | 1523.5 |
| 25°   | 2515.7 | 2363.6 | 2288.4 | 2219.6 | 2058.0 | 1923.6 | 1811.5 | 1693.1 | 1605.1 | 1525.1 | 1451.5 |
| 27.5° | 2510.9 | 2339.6 | 2259.6 | 2182.8 | 2030.8 | 1890.0 | 1749.1 | 1653.1 | 1555.5 | 1462.7 | 1408.3 |
| 30°   | 2498.1 | 2309.2 | 2216.4 | 2133.2 | 1974.8 | 1827.5 | 1707.5 | 1595.5 | 1497.9 | 1413.1 | 1341.0 |
| 32.5° | 2454.9 | 2258.0 | 2168.4 | 2078.8 | 1914.0 | 1766.7 | 1645.1 | 1541.1 | 1443.5 | 1355.5 | 1286.6 |
| 35°   | 2397.2 | 2197.2 | 2099.6 | 2005.2 | 1840.3 | 1691.5 | 1579.5 | 1470.7 | 1379.5 | 1294.6 | 1229.0 |
| 37.5° | 2339.6 | 2126.8 | 2035.6 | 1926.8 | 1774.7 | 1619.5 | 1504.3 | 1406.7 | 1321.8 | 1233.8 | 1161.8 |
| 40°   | 2256.4 | 2043.6 | 1942.8 | 1849.9 | 1672.3 | 1526.7 | 1421.1 | 1333.0 | 1249.8 | 1166.6 | 1105.8 |
| 42.5° | 2142.8 | 1952.4 | 1848.3 | 1745.9 | 1579.5 | 1435.5 | 1333.0 | 1254.6 | 1176.2 | 1107.4 | 1040.2 |
| 45°   | 2027.6 | 1841.9 | 1749.1 | 1657.9 | 1477.1 | 1341.0 | 1246.6 | 1174.6 | 1109.0 | 1033.8 | 979.4  |
| 47.5° | 1888.4 | 1731.5 | 1638.7 | 1549.1 | 1377.9 | 1241.8 | 1155.4 | 1088.2 | 1027.4 | 965.0  | 913.8  |
| 50°   | 1745.9 | 1609.9 | 1525.1 | 1432.3 | 1269.0 | 1145.8 | 1061.0 | 1005.0 | 955.4  | 896.2  | 854.6  |
| 52.5° | 1592.3 | 1473.9 | 1401.9 | 1312.2 | 1168.2 | 1054.6 | 968.2  | 912.2  | 870.6  | 827.4  | 790.5  |
| 55°   | 1429.1 | 1342.7 | 1265.8 | 1193.8 | 1057.8 | 955.4  | 878.6  | 829.0  | 800.1  | 760.1  | 728.1  |
| 57.5° | 1281.8 | 1198.6 | 1152.2 | 1070.6 | 952.2  | 851.4  | 790.5  | 748.9  | 715.3  | 691.3  | 665.7  |
| 60°   | 1128.2 | 1061.0 | 1009.8 | 950.6  | 846.6  | 761.7  | 697.7  | 673.7  | 638.5  | 620.9  | 609.7  |
| 62.5° | 981.0  | 933.0  | 885.0  | 840.2  | 747.3  | 667.3  | 619.3  | 588.9  | 568.1  | 550.5  | 540.9  |
| 65°   | 841.8  | 796.9  | 763.3  | 723.3  | 646.5  | 582.5  | 537.7  | 513.7  | 492.9  | 488.1  | 476.9  |
| 67.5° | 705.7  | 686.5  | 649.7  | 617.7  | 552.1  | 502.5  | 468.9  | 438.5  | 427.3  | 422.5  | 412.9  |
| 70°   | 590.5  | 568.1  | 539.3  | 512.1  | 462.5  | 419.3  | 388.9  | 377.7  | 361.7  | 360.1  | 348.9  |
| 72.5° | 486.5  | 459.3  | 438.5  | 417.7  | 380.9  | 342.5  | 326.5  | 310.5  | 302.5  | 296.1  | 291.3  |
| 75°   | 385.7  | 366.5  | 352.1  | 334.5  | 302.5  | 276.9  | 254.4  | 248.0  | 243.2  | 241.6  | 238.4  |
| 77.5° | 288.1  | 275.3  | 268.9  | 251.2  | 228.8  | 206.4  | 196.8  | 187.2  | 187.2  | 184.0  | 185.6  |
| 80°   | 204.8  | 196.8  | 188.8  | 179.2  | 160.0  | 150.4  | 142.4  | 136.0  | 132.8  | 131.2  | 132.8  |
| 82.5° | 129.6  | 124.8  | 123.2  | 116.8  | 104.0  | 99.2   | 92.8   | 88.0   | 88.0   | 88.0   | 88.0   |
| 85°   | 72.0   | 72.0   | 72.0   | 62.4   | 57.6   | 52.8   | 49.6   | 48.0   | 48.0   | 48.0   | 49.6   |
| 87.5° | 30.4   | 30.4   | 25.6   | 25.6   | 24.0   | 20.8   | 19.2   | 19.2   | 20.8   | 20.8   | 22.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 1902.8 | 1896.4 | 1899.6 | 1883.6 | 1869.1 | 1848.3 | 1830.7 | 1827.5 | 1824.3 | 1833.9 | 1827.5 |
| 5°    | 1848.3 | 1840.3 | 1832.3 | 1813.1 | 1784.3 | 1766.7 | 1741.1 | 1739.5 | 1729.9 | 1715.5 | 1718.7 |
| 7.5°  | 1789.1 | 1784.3 | 1773.1 | 1742.7 | 1717.1 | 1686.7 | 1665.9 | 1648.3 | 1640.3 | 1627.5 | 1622.7 |
| 10°   | 1741.1 | 1723.5 | 1713.9 | 1680.3 | 1649.9 | 1617.9 | 1590.7 | 1577.9 | 1563.5 | 1552.3 | 1544.3 |
| 12.5° | 1675.5 | 1670.7 | 1643.5 | 1616.3 | 1590.7 | 1553.9 | 1533.1 | 1496.3 | 1477.1 | 1486.7 | 1483.5 |
| 15°   | 1632.3 | 1609.9 | 1603.5 | 1565.1 | 1521.9 | 1497.9 | 1459.5 | 1435.5 | 1427.5 | 1413.1 | 1395.5 |
| 17.5° | 1574.7 | 1560.3 | 1537.9 | 1502.7 | 1453.1 | 1419.5 | 1392.3 | 1369.9 | 1360.3 | 1341.0 | 1326.6 |
| 20°   | 1520.3 | 1496.3 | 1478.7 | 1446.7 | 1398.7 | 1355.5 | 1321.8 | 1307.4 | 1283.4 | 1267.4 | 1259.4 |
| 22.5° | 1470.7 | 1453.1 | 1427.5 | 1379.5 | 1337.8 | 1296.2 | 1256.2 | 1235.4 | 1213.0 | 1203.4 | 1190.6 |
| 25°   | 1409.9 | 1381.1 | 1363.5 | 1310.6 | 1265.8 | 1232.2 | 1195.4 | 1168.2 | 1155.4 | 1139.4 | 1136.2 |
| 27.5° | 1350.7 | 1323.4 | 1302.6 | 1256.2 | 1201.8 | 1158.6 | 1136.2 | 1117.0 | 1094.6 | 1094.6 | 1086.6 |
| 30°   | 1291.4 | 1272.2 | 1240.2 | 1195.4 | 1144.2 | 1102.6 | 1077.0 | 1059.4 | 1051.4 | 1045.0 | 1043.4 |
| 32.5° | 1232.2 | 1206.6 | 1187.4 | 1126.6 | 1088.2 | 1049.8 | 1030.6 | 1016.2 | 1006.6 | 1005.0 | 1006.6 |
| 35°   | 1171.4 | 1142.6 | 1123.4 | 1069.0 | 1030.6 | 995.4  | 987.4  | 974.6  | 969.8  | 968.2  | 976.2  |
| 37.5° | 1107.4 | 1085.0 | 1061.0 | 1016.2 | 973.0  | 952.2  | 936.2  | 931.4  | 929.8  | 939.4  | 942.6  |
| 40°   | 1048.2 | 1029.0 | 1006.6 | 958.6  | 926.6  | 904.2  | 896.2  | 891.4  | 897.8  | 907.4  | 912.2  |
| 42.5° | 992.2  | 965.0  | 947.4  | 904.2  | 875.4  | 862.6  | 853.0  | 853.0  | 859.4  | 870.6  | 878.6  |
| 45°   | 933.0  | 912.2  | 894.6  | 856.2  | 830.6  | 816.2  | 814.6  | 816.2  | 824.2  | 832.2  | 841.8  |
| 47.5° | 875.4  | 854.6  | 835.4  | 803.3  | 780.9  | 772.9  | 771.3  | 772.9  | 785.7  | 796.9  | 808.2  |
| 50°   | 822.6  | 800.1  | 782.5  | 752.1  | 734.5  | 724.9  | 726.5  | 734.5  | 744.1  | 760.1  | 774.5  |
| 52.5° | 760.1  | 744.1  | 728.1  | 700.9  | 684.9  | 678.5  | 683.3  | 689.7  | 707.3  | 718.5  | 736.1  |
| 55°   | 699.3  | 684.9  | 672.1  | 651.3  | 638.5  | 633.7  | 636.9  | 646.5  | 660.9  | 680.1  | 700.9  |
| 57.5° | 643.3  | 627.3  | 614.5  | 600.1  | 585.7  | 587.3  | 588.9  | 601.7  | 619.3  | 636.9  | 660.9  |
| 60°   | 580.9  | 571.3  | 560.1  | 542.5  | 536.1  | 536.1  | 540.9  | 555.3  | 571.3  | 600.1  | 620.9  |
| 62.5° | 524.9  | 512.1  | 504.1  | 492.9  | 483.3  | 484.9  | 496.1  | 508.9  | 528.1  | 552.1  | 579.3  |
| 65°   | 467.3  | 452.9  | 446.5  | 436.9  | 433.7  | 435.3  | 443.3  | 462.5  | 483.3  | 504.1  | 529.7  |
| 67.5° | 403.3  | 398.5  | 392.1  | 382.5  | 385.7  | 387.3  | 395.3  | 411.3  | 433.7  | 454.5  | 483.3  |
| 70°   | 348.9  | 339.3  | 337.7  | 329.7  | 329.7  | 334.5  | 350.5  | 361.7  | 382.5  | 404.9  | 435.3  |
| 72.5° | 291.3  | 283.3  | 283.3  | 276.9  | 281.7  | 286.5  | 294.5  | 310.5  | 329.7  | 352.1  | 377.7  |
| 75°   | 232.0  | 228.8  | 232.0  | 228.8  | 228.8  | 236.8  | 246.4  | 259.2  | 280.1  | 304.1  | 324.9  |
| 77.5° | 179.2  | 179.2  | 177.6  | 182.4  | 182.4  | 187.2  | 200.0  | 212.8  | 228.8  | 248.0  | 270.5  |
| 80°   | 131.2  | 131.2  | 131.2  | 136.0  | 140.8  | 140.8  | 148.8  | 164.8  | 179.2  | 192.0  | 212.8  |
| 82.5° | 89.6   | 89.6   | 89.6   | 92.8   | 99.2   | 99.2   | 108.8  | 118.4  | 134.4  | 145.6  | 155.2  |
| 85°   | 54.4   | 54.4   | 52.8   | 56.0   | 57.6   | 62.4   | 70.4   | 76.8   | 84.8   | 94.4   | 104.0  |
| 87.5° | 24.0   | 24.0   | 25.6   | 27.2   | 28.8   | 32.0   | 35.2   | 38.4   | 46.4   | 49.6   | 54.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 1822.7 | 1821.1 | 1813.1 | 1816.3 | 1806.7 | 1809.9 | 1814.7 | 1816.3 | 1822.7 | 1817.9 | 1816.3 |
| 5°    | 1710.7 | 1707.5 | 1702.7 | 1697.9 | 1696.3 | 1702.7 | 1691.5 | 1694.7 | 1697.9 | 1702.7 | 1709.1 |
| 7.5°  | 1619.5 | 1617.9 | 1613.1 | 1605.1 | 1601.9 | 1598.7 | 1600.3 | 1611.5 | 1609.9 | 1608.3 | 1619.5 |
| 10°   | 1536.3 | 1537.9 | 1528.3 | 1526.7 | 1517.1 | 1515.5 | 1517.1 | 1520.3 | 1525.1 | 1531.5 | 1533.1 |
| 12.5° | 1449.9 | 1470.7 | 1453.1 | 1446.7 | 1432.3 | 1440.3 | 1443.5 | 1429.1 | 1437.1 | 1441.9 | 1465.9 |
| 15°   | 1395.5 | 1385.9 | 1374.7 | 1374.7 | 1368.3 | 1365.1 | 1357.1 | 1368.3 | 1374.7 | 1384.3 | 1381.1 |
| 17.5° | 1320.2 | 1304.2 | 1297.8 | 1291.4 | 1293.0 | 1299.4 | 1281.8 | 1307.4 | 1307.4 | 1312.2 | 1304.2 |
| 20°   | 1254.6 | 1241.8 | 1233.8 | 1230.6 | 1225.8 | 1222.6 | 1221.0 | 1227.4 | 1237.0 | 1240.2 | 1248.2 |
| 22.5° | 1185.8 | 1185.8 | 1173.0 | 1168.2 | 1165.0 | 1160.2 | 1168.2 | 1163.4 | 1169.8 | 1176.2 | 1189.0 |
| 25°   | 1128.2 | 1128.2 | 1123.4 | 1117.0 | 1112.2 | 1109.0 | 1113.8 | 1112.2 | 1117.0 | 1125.0 | 1128.2 |
| 27.5° | 1081.8 | 1077.0 | 1075.4 | 1073.8 | 1072.2 | 1073.8 | 1072.2 | 1077.0 | 1081.8 | 1083.4 | 1080.2 |
| 30°   | 1041.8 | 1037.0 | 1038.6 | 1038.6 | 1040.2 | 1038.6 | 1037.0 | 1041.8 | 1043.4 | 1040.2 | 1041.8 |
| 32.5° | 1005.0 | 1005.0 | 1008.2 | 1009.8 | 1009.8 | 1011.4 | 1013.0 | 1009.8 | 1011.4 | 1006.6 | 1008.2 |
| 35°   | 974.6  | 977.8  | 981.0  | 982.6  | 984.2  | 982.6  | 985.8  | 984.2  | 981.0  | 977.8  | 976.2  |
| 37.5° | 944.2  | 947.4  | 953.8  | 955.4  | 960.2  | 961.8  | 958.6  | 958.6  | 957.0  | 950.6  | 947.4  |
| 40°   | 912.2  | 915.4  | 923.4  | 928.2  | 931.4  | 936.2  | 933.0  | 933.0  | 926.6  | 920.2  | 915.4  |
| 42.5° | 881.8  | 888.2  | 896.2  | 901.0  | 907.4  | 907.4  | 907.4  | 904.2  | 896.2  | 889.8  | 885.0  |
| 45°   | 851.4  | 853.0  | 864.2  | 872.2  | 878.6  | 878.6  | 878.6  | 873.8  | 869.0  | 856.2  | 849.8  |
| 47.5° | 817.8  | 822.6  | 835.4  | 843.4  | 849.8  | 851.4  | 851.4  | 846.6  | 837.0  | 825.8  | 817.8  |
| 50°   | 780.9  | 788.9  | 803.3  | 814.6  | 822.6  | 825.8  | 821.0  | 817.8  | 806.6  | 793.7  | 784.1  |
| 52.5° | 745.7  | 755.3  | 772.9  | 782.5  | 793.7  | 795.3  | 793.7  | 788.9  | 776.1  | 758.5  | 750.5  |
| 55°   | 710.5  | 718.5  | 737.7  | 753.7  | 763.3  | 766.5  | 763.3  | 755.3  | 739.3  | 721.7  | 713.7  |
| 57.5° | 672.1  | 683.3  | 704.1  | 720.1  | 731.3  | 732.9  | 729.7  | 721.7  | 708.9  | 686.5  | 675.3  |
| 60°   | 632.1  | 646.5  | 667.3  | 683.3  | 697.7  | 699.3  | 696.1  | 684.9  | 668.9  | 646.5  | 636.9  |
| 62.5° | 592.1  | 603.3  | 627.3  | 644.9  | 656.1  | 664.1  | 657.7  | 646.5  | 630.5  | 608.1  | 593.7  |
| 65°   | 545.7  | 561.7  | 582.5  | 598.5  | 611.3  | 612.9  | 609.7  | 600.1  | 582.5  | 558.5  | 547.3  |
| 67.5° | 500.9  | 512.1  | 532.9  | 553.7  | 558.5  | 563.3  | 558.5  | 548.9  | 534.5  | 513.7  | 497.7  |
| 70°   | 446.5  | 456.1  | 481.7  | 496.1  | 502.5  | 507.3  | 504.1  | 494.5  | 481.7  | 462.5  | 449.7  |
| 72.5° | 392.1  | 400.1  | 424.1  | 435.3  | 448.1  | 446.5  | 444.9  | 438.5  | 420.9  | 408.1  | 400.1  |
| 75°   | 334.5  | 344.1  | 360.1  | 374.5  | 379.3  | 379.3  | 379.3  | 374.5  | 363.3  | 342.5  | 334.5  |
| 77.5° | 281.7  | 286.5  | 299.3  | 307.3  | 312.1  | 313.7  | 312.1  | 304.1  | 297.7  | 283.3  | 278.5  |
| 80°   | 216.0  | 228.8  | 238.4  | 240.0  | 246.4  | 246.4  | 246.4  | 243.2  | 236.8  | 222.4  | 220.8  |
| 82.5° | 163.2  | 166.4  | 176.0  | 180.8  | 184.0  | 182.4  | 182.4  | 176.0  | 174.4  | 166.4  | 163.2  |
| 85°   | 110.4  | 115.2  | 113.6  | 120.0  | 121.6  | 118.4  | 118.4  | 121.6  | 113.6  | 115.2  | 110.4  |
| 87.5° | 60.8   | 60.8   | 64.0   | 62.4   | 68.8   | 68.8   | 65.6   | 67.2   | 64.0   | 62.4   | 60.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1037613

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**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 1816.3 | 1825.9 | 1816.3 | 1822.7 | 1825.9 | 1833.9 | 1837.1 | 1851.5 | 1856.3 | 1867.5 | 1867.5 |
| 5°    | 1707.5 | 1712.3 | 1713.9 | 1720.3 | 1726.7 | 1742.7 | 1753.9 | 1774.7 | 1798.7 | 1801.9 | 1816.3 |
| 7.5°  | 1619.5 | 1627.5 | 1640.3 | 1635.5 | 1646.7 | 1670.7 | 1685.1 | 1710.7 | 1734.7 | 1747.5 | 1765.1 |
| 10°   | 1541.1 | 1550.7 | 1555.5 | 1560.3 | 1581.1 | 1601.9 | 1624.3 | 1641.9 | 1673.9 | 1693.1 | 1707.5 |
| 12.5° | 1477.1 | 1469.1 | 1478.7 | 1496.3 | 1520.3 | 1533.1 | 1563.5 | 1590.7 | 1614.7 | 1635.5 | 1648.3 |
| 15°   | 1393.9 | 1400.3 | 1409.9 | 1440.3 | 1446.7 | 1478.7 | 1489.9 | 1520.3 | 1565.1 | 1584.3 | 1600.3 |
| 17.5° | 1313.8 | 1334.6 | 1353.9 | 1365.1 | 1384.3 | 1409.9 | 1441.9 | 1475.5 | 1504.3 | 1526.7 | 1545.9 |
| 20°   | 1249.8 | 1270.6 | 1281.8 | 1289.8 | 1309.0 | 1344.3 | 1374.7 | 1416.3 | 1453.1 | 1470.7 | 1496.3 |
| 22.5° | 1198.6 | 1198.6 | 1214.6 | 1238.6 | 1249.8 | 1283.4 | 1309.0 | 1353.9 | 1393.9 | 1416.3 | 1440.3 |
| 25°   | 1134.6 | 1144.2 | 1157.0 | 1177.8 | 1193.8 | 1221.0 | 1257.8 | 1296.2 | 1339.4 | 1358.7 | 1389.1 |
| 27.5° | 1081.8 | 1093.0 | 1110.6 | 1115.4 | 1131.4 | 1155.4 | 1193.8 | 1235.4 | 1280.2 | 1301.0 | 1326.6 |
| 30°   | 1041.8 | 1048.2 | 1054.6 | 1064.2 | 1078.6 | 1099.4 | 1131.4 | 1168.2 | 1222.6 | 1238.6 | 1270.6 |
| 32.5° | 1006.6 | 1009.8 | 1013.0 | 1021.0 | 1029.0 | 1049.8 | 1075.4 | 1115.4 | 1160.2 | 1184.2 | 1213.0 |
| 35°   | 974.6  | 971.4  | 973.0  | 977.8  | 985.8  | 993.8  | 1021.0 | 1054.6 | 1096.2 | 1125.0 | 1147.4 |
| 37.5° | 944.2  | 937.8  | 936.2  | 936.2  | 939.4  | 949.0  | 969.8  | 998.6  | 1043.4 | 1067.4 | 1089.8 |
| 40°   | 910.6  | 904.2  | 901.0  | 899.4  | 897.8  | 904.2  | 920.2  | 949.0  | 984.2  | 1006.6 | 1032.2 |
| 42.5° | 878.6  | 872.2  | 864.2  | 862.6  | 859.4  | 862.6  | 873.8  | 901.0  | 931.4  | 953.8  | 974.6  |
| 45°   | 846.6  | 835.4  | 825.8  | 819.4  | 821.0  | 816.2  | 824.2  | 845.0  | 880.2  | 894.6  | 915.4  |
| 47.5° | 811.4  | 798.5  | 785.7  | 779.3  | 772.9  | 776.1  | 779.3  | 796.9  | 827.4  | 841.8  | 862.6  |
| 50°   | 777.7  | 760.1  | 745.7  | 737.7  | 732.9  | 729.7  | 732.9  | 750.5  | 772.9  | 785.7  | 803.3  |
| 52.5° | 739.3  | 721.7  | 707.3  | 694.5  | 688.1  | 683.3  | 684.9  | 700.9  | 721.7  | 734.5  | 752.1  |
| 55°   | 704.1  | 681.7  | 662.5  | 646.5  | 641.7  | 640.1  | 638.5  | 649.7  | 667.3  | 680.1  | 694.5  |
| 57.5° | 664.1  | 641.7  | 620.9  | 601.7  | 592.1  | 590.5  | 590.5  | 593.7  | 616.1  | 625.7  | 633.7  |
| 60°   | 624.1  | 600.1  | 577.7  | 560.1  | 545.7  | 540.9  | 539.3  | 545.7  | 556.9  | 566.5  | 577.7  |
| 62.5° | 579.3  | 555.3  | 528.1  | 512.1  | 497.7  | 484.9  | 489.7  | 491.3  | 507.3  | 512.1  | 521.7  |
| 65°   | 536.1  | 508.9  | 486.5  | 460.9  | 444.9  | 436.9  | 433.7  | 436.9  | 449.7  | 451.3  | 457.7  |
| 67.5° | 486.5  | 460.9  | 433.7  | 416.1  | 401.7  | 387.3  | 384.1  | 384.1  | 390.5  | 395.3  | 403.3  |
| 70°   | 438.5  | 412.9  | 382.5  | 363.3  | 348.9  | 336.1  | 331.3  | 329.7  | 334.5  | 337.7  | 345.7  |
| 72.5° | 382.5  | 356.9  | 334.5  | 313.7  | 296.1  | 286.5  | 281.7  | 278.5  | 283.3  | 286.5  | 288.1  |
| 75°   | 323.3  | 302.5  | 280.1  | 259.2  | 248.0  | 238.4  | 232.0  | 227.2  | 230.4  | 230.4  | 230.4  |
| 77.5° | 267.2  | 246.4  | 228.8  | 214.4  | 200.0  | 188.8  | 184.0  | 179.2  | 180.8  | 180.8  | 184.0  |
| 80°   | 208.0  | 193.6  | 179.2  | 166.4  | 153.6  | 144.0  | 140.8  | 136.0  | 132.8  | 131.2  | 131.2  |
| 82.5° | 153.6  | 142.4  | 129.6  | 118.4  | 112.0  | 102.4  | 99.2   | 92.8   | 92.8   | 91.2   | 91.2   |
| 85°   | 102.4  | 96.0   | 83.2   | 75.2   | 70.4   | 65.6   | 62.4   | 59.2   | 54.4   | 54.4   | 52.8   |
| 87.5° | 54.4   | 51.2   | 48.0   | 38.4   | 38.4   | 33.6   | 32.0   | 30.4   | 25.6   | 27.2   | 27.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1037613

CATALOG NUMBER: S124DS-B1195DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1931.6 | 1931.6 | 1931.6 | 1931.6 |
| 2.5°  | 1878.7 | 1894.8 | 1909.2 | 1931.6 |
| 5°    | 1837.1 | 1859.5 | 1890.0 | 1923.6 |
| 7.5°  | 1789.1 | 1824.3 | 1864.3 | 1910.8 |
| 10°   | 1744.3 | 1784.3 | 1835.5 | 1891.6 |
| 12.5° | 1697.9 | 1745.9 | 1801.9 | 1862.7 |
| 15°   | 1645.1 | 1693.1 | 1755.5 | 1837.1 |
| 17.5° | 1597.1 | 1654.7 | 1721.9 | 1808.3 |
| 20°   | 1541.1 | 1595.5 | 1669.1 | 1768.3 |
| 22.5° | 1491.5 | 1553.9 | 1635.5 | 1721.9 |
| 25°   | 1437.1 | 1491.5 | 1573.1 | 1677.1 |
| 27.5° | 1382.7 | 1449.9 | 1528.3 | 1629.1 |
| 30°   | 1329.8 | 1385.9 | 1470.7 | 1576.3 |
| 32.5° | 1272.2 | 1339.4 | 1417.9 | 1517.1 |
| 35°   | 1209.8 | 1273.8 | 1347.5 | 1454.7 |
| 37.5° | 1153.8 | 1216.2 | 1291.4 | 1385.9 |
| 40°   | 1091.4 | 1157.0 | 1225.8 | 1320.2 |
| 42.5° | 1030.6 | 1089.8 | 1158.6 | 1245.0 |
| 45°   | 971.4  | 1022.6 | 1085.0 | 1160.2 |
| 47.5° | 910.6  | 953.8  | 1011.4 | 1078.6 |
| 50°   | 845.0  | 891.4  | 934.6  | 990.6  |
| 52.5° | 784.1  | 824.2  | 859.4  | 905.8  |
| 55°   | 724.9  | 752.1  | 780.9  | 816.2  |
| 57.5° | 662.5  | 683.3  | 704.1  | 740.9  |
| 60°   | 600.1  | 619.3  | 630.5  | 654.5  |
| 62.5° | 539.3  | 547.3  | 561.7  | 576.1  |
| 65°   | 472.1  | 483.3  | 491.3  | 508.9  |
| 67.5° | 411.3  | 416.1  | 424.1  | 435.3  |
| 70°   | 347.3  | 358.5  | 361.7  | 369.7  |
| 72.5° | 292.9  | 297.7  | 300.9  | 302.5  |
| 75°   | 232.0  | 236.8  | 240.0  | 249.6  |
| 77.5° | 182.4  | 180.8  | 187.2  | 188.8  |
| 80°   | 134.4  | 129.6  | 131.2  | 137.6  |
| 82.5° | 88.0   | 89.6   | 88.0   | 88.0   |
| 85°   | 54.4   | 52.8   | 49.6   | 51.2   |
| 87.5° | 24.0   | 24.0   | 22.4   | 22.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)