

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: P1037277

Luminaire Tested: S123DS-B1165DB30-4F0-XX-W2A-A

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1037277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DS-B1165DB30-4F0-XX-W2A-A  
Description: Define 3 Direct Surface with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

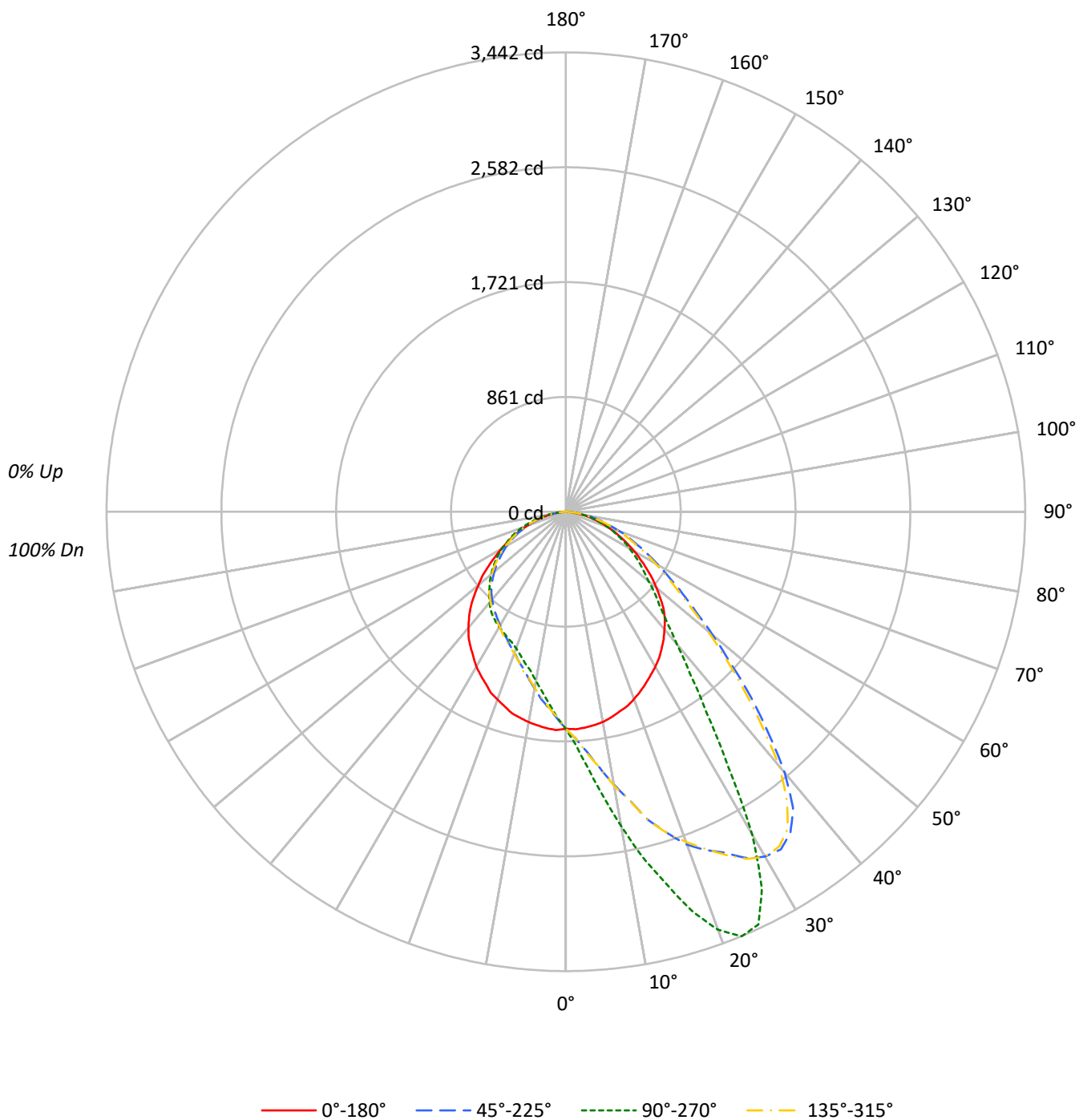
Lumens per Lamp: N/A  
Luminaire Lumens: 4907.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

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: P1037277

CATALOG NUMBER: S123DS-B1165DB30-4F0-XX-W2A-A

### Luminous Intensity Polar Plot



TEST NUMBER: P1037277

CATALOG NUMBER: S123DS-B1165DB30-4F0-XX-W2A-A

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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 74  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 69  | 65  |  | 72  | 68  | 64  | 62  |
| 4   | 84  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 56  | 53  |
| 5   | 78  | 66  | 57  | 51  | 76  | 64  | 56  | 50  | 62  | 55  | 50  |  | 60  | 54  | 49  |  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  |  | 55  | 48  | 43  |  | 53  | 48  | 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  | 39  | 35  |  | 45  | 39  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 43  | 36  | 32  |  | 42  | 36  | 31  |  | 41  | 36  | 31  | 29  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  |  | 39  | 33  | 29  |  | 38  | 33  | 28  | 27  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 17500 | 17500 | 17500 | 17500 |
| 5°  | 17550 | 20870 | 17601 | 15575 |
| 10° | 17477 | 26122 | 17495 | 14068 |
| 15° | 17275 | 32039 | 17415 | 13097 |
| 20° | 17108 | 38167 | 17143 | 12470 |
| 25° | 16840 | 40527 | 16877 | 12330 |
| 30° | 16664 | 34737 | 16664 | 12394 |
| 35° | 16437 | 24158 | 16333 | 12524 |
| 40° | 16160 | 18196 | 15961 | 12485 |
| 45° | 15804 | 15108 | 15349 | 12327 |
| 50° | 14853 | 13534 | 14324 | 12214 |
| 55° | 13806 | 12654 | 13245 | 12063 |
| 60° | 12753 | 11870 | 12073 | 11937 |
| 65° | 11596 | 11156 | 11033 | 11556 |
| 70° | 10411 | 10461 | 9718  | 11006 |
| 75° | 9108  | 9370  | 8517  | 10089 |
| 80° | 7519  | 8201  | 6936  | 8691  |
| 85° | 5842  | 6422  | 4668  | 5842  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 35277 cd/sqm

TEST NUMBER: P1037277

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.9  | 3.3       |
| 10°-20°   | 513.6  | 10.5      |
| 20°-30°   | 864.1  | 17.6      |
| 30°-40°   | 976.5  | 19.9      |
| 40°-50°   | 874.6  | 17.8      |
| 50°-60°   | 706.1  | 14.4      |
| 60°-70°   | 492.0  | 10.0      |
| 70°-80°   | 258.2  | 5.3       |
| 80°-90°   | 61.9   | 1.3       |
| 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°    | 1537.6 | 31.3      |
| 0°-40°    | 2514.1 | 51.2      |
| 0°-60°    | 4094.8 | 83.4      |
| 0°-90°    | 4907.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4907.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1626 | 1626 | 1626 | 1626 | 1626 |      |
| 5°  | 1624 | 1932 | 1629 | 1442 | 1624 | 154  |
| 15° | 1550 | 2875 | 1563 | 1175 | 1550 | 438  |
| 25° | 1418 | 3412 | 1421 | 1038 | 1418 | 654  |
| 35° | 1251 | 1838 | 1243 | 953  | 1251 | 783  |
| 45° | 1038 | 992  | 1008 | 810  | 1038 | 794  |
| 55° | 736  | 674  | 706  | 643  | 736  | 659  |
| 65° | 455  | 438  | 433  | 454  | 455  | 453  |
| 75° | 219  | 225  | 205  | 243  | 219  | 235  |
| 85° | 47   | 52   | 38   | 47   | 47   | 58   |
| 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°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1630.6 | 1643.2 | 1649.5 | 1658.9 | 1668.4 | 1682.5 | 1687.3 | 1695.1 | 1692.0 | 1698.3 | 1701.4 |
| 5°    | 1624.2 | 1646.3 | 1665.2 | 1688.8 | 1710.9 | 1726.7 | 1742.4 | 1767.6 | 1786.5 | 1789.7 | 1803.8 |
| 7.5°  | 1613.2 | 1644.7 | 1677.8 | 1710.9 | 1753.4 | 1778.6 | 1807.0 | 1841.7 | 1870.0 | 1915.7 | 1933.0 |
| 10°   | 1599.0 | 1643.2 | 1690.4 | 1736.1 | 1794.4 | 1833.8 | 1868.4 | 1926.7 | 1985.0 | 2032.3 | 2076.4 |
| 12.5° | 1577.0 | 1632.1 | 1693.6 | 1761.3 | 1836.9 | 1882.6 | 1929.9 | 2007.1 | 2095.3 | 2167.8 | 2215.0 |
| 15°   | 1550.2 | 1619.5 | 1698.3 | 1770.8 | 1854.3 | 1939.3 | 1989.7 | 2076.4 | 2202.4 | 2270.2 | 2391.5 |
| 17.5° | 1528.1 | 1599.0 | 1677.8 | 1791.2 | 1904.7 | 1989.7 | 2026.0 | 2185.1 | 2271.7 | 2385.2 | 2522.2 |
| 20°   | 1493.5 | 1583.3 | 1684.1 | 1797.5 | 1944.1 | 1996.0 | 2070.1 | 2230.8 | 2337.9 | 2486.0 | 2654.6 |
| 22.5° | 1457.3 | 1553.4 | 1674.7 | 1792.8 | 1956.7 | 2011.8 | 2112.6 | 2240.2 | 2410.4 | 2556.9 | 2742.8 |
| 25°   | 1417.9 | 1521.8 | 1644.7 | 1784.9 | 1945.6 | 2026.0 | 2120.5 | 2278.0 | 2462.4 | 2646.7 | 2818.4 |
| 27.5° | 1378.5 | 1491.9 | 1619.5 | 1759.7 | 1915.7 | 2010.2 | 2104.7 | 2268.6 | 2504.9 | 2705.0 | 2924.0 |
| 30°   | 1340.7 | 1454.1 | 1581.7 | 1725.1 | 1888.9 | 1980.3 | 2070.1 | 2274.9 | 2538.0 | 2763.3 | 2983.8 |
| 32.5° | 1299.7 | 1416.3 | 1550.2 | 1669.9 | 1835.4 | 1933.0 | 2033.9 | 2274.9 | 2558.5 | 2797.9 | 2999.6 |
| 35°   | 1250.9 | 1370.6 | 1485.6 | 1605.3 | 1769.2 | 1877.9 | 1991.3 | 2259.1 | 2577.4 | 2809.0 | 2933.4 |
| 37.5° | 1203.6 | 1309.2 | 1408.4 | 1525.0 | 1696.7 | 1813.3 | 1944.1 | 2240.2 | 2567.9 | 2761.7 | 2796.4 |
| 40°   | 1150.1 | 1255.6 | 1335.9 | 1444.7 | 1625.8 | 1761.3 | 1893.6 | 2215.0 | 2527.0 | 2649.8 | 2549.0 |
| 42.5° | 1098.1 | 1181.6 | 1250.9 | 1356.4 | 1553.4 | 1685.7 | 1829.1 | 2169.3 | 2446.6 | 2471.8 | 2245.0 |
| 45°   | 1038.2 | 1098.1 | 1159.5 | 1279.2 | 1474.6 | 1610.1 | 1769.2 | 2103.2 | 2317.4 | 2245.0 | 1958.2 |
| 47.5° | 961.0  | 1014.6 | 1082.3 | 1192.6 | 1391.1 | 1531.3 | 1682.5 | 2018.1 | 2130.0 | 1978.7 | 1665.2 |
| 50°   | 887.0  | 932.6  | 995.7  | 1102.8 | 1302.9 | 1439.9 | 1600.6 | 1884.2 | 1939.3 | 1701.4 | 1435.2 |
| 52.5° | 812.9  | 847.6  | 909.0  | 1016.1 | 1216.2 | 1348.6 | 1495.1 | 1747.1 | 1715.6 | 1460.4 | 1224.1 |
| 55°   | 735.7  | 765.6  | 823.9  | 929.5  | 1115.4 | 1241.4 | 1381.6 | 1578.6 | 1496.6 | 1254.0 | 1065.0 |
| 57.5° | 660.1  | 691.6  | 751.5  | 839.7  | 1014.6 | 1137.4 | 1249.3 | 1403.7 | 1280.8 | 1087.0 | 920.0  |
| 60°   | 592.4  | 619.1  | 664.8  | 751.5  | 910.6  | 1009.8 | 1112.2 | 1217.8 | 1115.4 | 927.9  | 800.3  |
| 62.5° | 521.5  | 546.7  | 589.2  | 668.0  | 805.0  | 893.3  | 975.2  | 1061.8 | 948.4  | 811.3  | 697.9  |
| 65°   | 455.3  | 475.8  | 515.2  | 587.6  | 699.5  | 772.0  | 838.1  | 898.0  | 806.6  | 680.6  | 595.5  |
| 67.5° | 395.4  | 412.8  | 445.8  | 510.4  | 605.0  | 656.9  | 710.5  | 760.9  | 683.7  | 582.9  | 510.4  |
| 70°   | 330.8  | 345.0  | 374.9  | 422.2  | 497.8  | 551.4  | 590.8  | 628.6  | 559.3  | 478.9  | 430.1  |
| 72.5° | 274.1  | 288.3  | 307.2  | 356.0  | 408.0  | 441.1  | 483.7  | 504.1  | 464.7  | 398.6  | 349.7  |
| 75°   | 219.0  | 230.0  | 247.3  | 278.8  | 327.7  | 349.7  | 376.5  | 392.3  | 356.0  | 311.9  | 282.0  |
| 77.5° | 171.7  | 176.4  | 189.0  | 211.1  | 244.2  | 269.4  | 289.9  | 299.3  | 274.1  | 245.8  | 220.6  |
| 80°   | 121.3  | 127.6  | 137.1  | 156.0  | 181.2  | 189.0  | 201.7  | 212.7  | 196.9  | 171.7  | 156.0  |
| 82.5° | 80.3   | 88.2   | 92.9   | 100.8  | 116.6  | 126.0  | 129.2  | 138.6  | 124.5  | 115.0  | 108.7  |
| 85°   | 47.3   | 50.4   | 52.0   | 56.7   | 64.6   | 69.3   | 74.0   | 75.6   | 72.5   | 70.9   | 64.6   |
| 87.5° | 23.6   | 23.6   | 23.6   | 26.8   | 28.4   | 31.5   | 33.1   | 33.1   | 33.1   | 31.5   | 29.9   |
| 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°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1712.5 | 1715.6 | 1726.7 | 1734.5 | 1750.3 | 1748.7 | 1748.7 | 1747.1 | 1742.4 | 1750.3 | 1755.0 |
| 5°    | 1832.2 | 1859.0 | 1862.1 | 1896.8 | 1898.4 | 1912.5 | 1922.0 | 1914.1 | 1933.0 | 1931.5 | 1917.3 |
| 7.5°  | 1980.3 | 2016.5 | 2033.9 | 2066.9 | 2104.7 | 2095.3 | 2131.5 | 2137.8 | 2134.7 | 2150.4 | 2161.5 |
| 10°   | 2142.6 | 2205.6 | 2249.7 | 2311.1 | 2326.9 | 2336.3 | 2360.0 | 2380.4 | 2421.4 | 2389.9 | 2410.4 |
| 12.5° | 2328.5 | 2374.1 | 2432.4 | 2530.1 | 2578.9 | 2610.5 | 2621.5 | 2635.7 | 2664.0 | 2646.7 | 2648.3 |
| 15°   | 2484.4 | 2545.9 | 2645.1 | 2766.4 | 2780.6 | 2820.0 | 2810.5 | 2895.6 | 2936.6 | 2875.1 | 2909.8 |
| 17.5° | 2646.7 | 2728.6 | 2846.8 | 2952.3 | 3012.2 | 3039.0 | 3064.2 | 3146.1 | 3142.9 | 3133.5 | 3141.4 |
| 20°   | 2750.7 | 2884.6 | 3031.1 | 3171.3 | 3188.6 | 3209.1 | 3276.9 | 3311.5 | 3305.2 | 3332.0 | 3349.3 |
| 22.5° | 2897.2 | 3039.0 | 3194.9 | 3287.9 | 3327.3 | 3350.9 | 3404.5 | 3426.5 | 3436.0 | 3442.3 | 3431.2 |
| 25°   | 3020.1 | 3171.3 | 3286.3 | 3368.2 | 3391.9 | 3404.5 | 3421.8 | 3428.1 | 3423.4 | 3412.3 | 3421.8 |
| 27.5° | 3103.6 | 3224.9 | 3303.6 | 3341.4 | 3328.8 | 3308.4 | 3275.3 | 3253.2 | 3204.4 | 3180.8 | 3209.1 |
| 30°   | 3138.2 | 3191.8 | 3215.4 | 3152.4 | 3089.4 | 3039.0 | 2976.0 | 2859.4 | 2768.0 | 2794.8 | 2758.5 |
| 32.5° | 3083.1 | 3048.4 | 2935.0 | 2772.7 | 2723.9 | 2642.0 | 2463.9 | 2326.9 | 2331.6 | 2259.1 | 2289.1 |
| 35°   | 2920.8 | 2763.3 | 2549.0 | 2303.3 | 2238.7 | 2194.5 | 1999.2 | 1969.3 | 1906.2 | 1838.5 | 1857.4 |
| 37.5° | 2634.1 | 2404.1 | 2144.1 | 1963.0 | 1866.9 | 1770.8 | 1660.5 | 1594.3 | 1556.5 | 1528.1 | 1550.2 |
| 40°   | 2284.3 | 2003.9 | 1789.7 | 1627.4 | 1545.5 | 1484.0 | 1408.4 | 1342.3 | 1299.7 | 1295.0 | 1302.9 |
| 42.5° | 1940.9 | 1704.6 | 1507.7 | 1353.3 | 1326.5 | 1254.0 | 1205.2 | 1153.2 | 1140.6 | 1120.1 | 1131.1 |
| 45°   | 1643.2 | 1451.0 | 1288.7 | 1162.7 | 1131.1 | 1112.2 | 1052.4 | 1019.3 | 1005.1 | 992.5  | 1011.4 |
| 47.5° | 1427.3 | 1225.7 | 1107.5 | 1031.9 | 1000.4 | 968.9  | 935.8  | 913.7  | 902.7  | 904.3  | 902.7  |
| 50°   | 1219.4 | 1071.3 | 967.3  | 909.0  | 890.1  | 868.1  | 841.3  | 827.1  | 822.4  | 808.2  | 819.2  |
| 52.5° | 1049.2 | 942.1  | 869.6  | 814.5  | 800.3  | 784.6  | 762.5  | 754.6  | 743.6  | 740.4  | 740.4  |
| 55°   | 912.2  | 828.7  | 770.4  | 734.1  | 716.8  | 704.2  | 691.6  | 682.2  | 674.3  | 674.3  | 674.3  |
| 57.5° | 805.0  | 732.6  | 690.0  | 658.5  | 652.2  | 639.6  | 625.4  | 625.4  | 614.4  | 612.8  | 617.6  |
| 60°   | 713.7  | 649.1  | 616.0  | 589.2  | 579.8  | 576.6  | 562.4  | 562.4  | 559.3  | 551.4  | 557.7  |
| 62.5° | 620.7  | 573.4  | 545.1  | 524.6  | 515.2  | 515.2  | 504.1  | 496.3  | 496.3  | 497.8  | 494.7  |
| 65°   | 535.6  | 501.0  | 475.8  | 460.0  | 455.3  | 449.0  | 447.4  | 441.1  | 436.4  | 438.0  | 436.4  |
| 67.5° | 460.0  | 433.2  | 415.9  | 403.3  | 395.4  | 392.3  | 387.6  | 387.6  | 384.4  | 386.0  | 378.1  |
| 70°   | 392.3  | 365.5  | 351.3  | 338.7  | 335.6  | 335.6  | 329.3  | 330.8  | 327.7  | 332.4  | 329.3  |
| 72.5° | 323.0  | 302.5  | 291.5  | 286.7  | 283.6  | 282.0  | 278.8  | 275.7  | 274.1  | 277.3  | 275.7  |
| 75°   | 261.5  | 244.2  | 236.3  | 233.2  | 230.0  | 230.0  | 228.4  | 226.9  | 225.3  | 225.3  | 225.3  |
| 77.5° | 203.2  | 192.2  | 182.7  | 185.9  | 181.2  | 182.7  | 178.0  | 178.0  | 179.6  | 178.0  | 178.0  |
| 80°   | 149.7  | 141.8  | 141.8  | 138.6  | 132.3  | 135.5  | 135.5  | 130.8  | 129.2  | 132.3  | 127.6  |
| 82.5° | 99.3   | 97.7   | 94.5   | 92.9   | 89.8   | 91.4   | 89.8   | 88.2   | 86.6   | 89.8   | 86.6   |
| 85°   | 58.3   | 58.3   | 56.7   | 53.6   | 56.7   | 55.1   | 53.6   | 53.6   | 52.0   | 52.0   | 52.0   |
| 87.5° | 29.9   | 26.8   | 26.8   | 25.2   | 26.8   | 23.6   | 25.2   | 23.6   | 22.1   | 23.6   | 22.1   |
| 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°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1742.4 | 1747.1 | 1734.5 | 1731.4 | 1731.4 | 1737.7 | 1733.0 | 1690.4 | 1698.3 | 1688.8 | 1685.7 |
| 5°    | 1934.6 | 1925.2 | 1912.5 | 1906.2 | 1898.4 | 1876.3 | 1874.7 | 1825.9 | 1816.4 | 1784.9 | 1770.8 |
| 7.5°  | 2145.7 | 2137.8 | 2100.0 | 2095.3 | 2092.1 | 2071.7 | 2019.7 | 1967.7 | 1929.9 | 1893.6 | 1859.0 |
| 10°   | 2386.7 | 2363.1 | 2345.8 | 2311.1 | 2293.8 | 2265.4 | 2197.7 | 2148.9 | 2084.3 | 2029.1 | 1956.7 |
| 12.5° | 2676.6 | 2649.8 | 2591.6 | 2566.3 | 2544.3 | 2465.5 | 2397.8 | 2342.6 | 2216.6 | 2178.8 | 2089.0 |
| 15°   | 2889.3 | 2832.6 | 2826.3 | 2771.1 | 2768.0 | 2681.4 | 2552.2 | 2492.3 | 2394.6 | 2256.0 | 2163.0 |
| 17.5° | 3119.3 | 3068.9 | 3029.5 | 2963.3 | 2953.9 | 2872.0 | 2777.5 | 2630.9 | 2523.8 | 2391.5 | 2273.3 |
| 20°   | 3287.9 | 3261.1 | 3193.4 | 3166.6 | 3111.4 | 3042.1 | 2944.4 | 2763.3 | 2632.5 | 2500.2 | 2355.2 |
| 22.5° | 3421.8 | 3395.0 | 3341.4 | 3305.2 | 3273.7 | 3183.9 | 3067.3 | 2912.9 | 2733.3 | 2560.0 | 2410.4 |
| 25°   | 3420.2 | 3412.3 | 3390.3 | 3373.0 | 3349.3 | 3283.2 | 3185.5 | 3037.4 | 2837.3 | 2646.7 | 2438.7 |
| 27.5° | 3226.4 | 3248.5 | 3286.3 | 3305.2 | 3300.5 | 3291.0 | 3235.9 | 3111.4 | 2931.8 | 2705.0 | 2471.8 |
| 30°   | 2823.1 | 2903.5 | 2974.4 | 3068.9 | 3097.3 | 3166.6 | 3198.1 | 3127.2 | 2983.8 | 2772.7 | 2514.4 |
| 32.5° | 2341.1 | 2457.6 | 2612.0 | 2664.0 | 2753.8 | 2887.7 | 3037.4 | 3064.2 | 2974.4 | 2812.1 | 2541.1 |
| 35°   | 1920.4 | 2016.5 | 2136.3 | 2218.2 | 2298.5 | 2515.9 | 2705.0 | 2868.8 | 2898.8 | 2791.6 | 2534.8 |
| 37.5° | 1589.6 | 1657.3 | 1762.9 | 1832.2 | 1906.2 | 2092.1 | 2356.8 | 2569.5 | 2719.2 | 2722.3 | 2517.5 |
| 40°   | 1350.1 | 1380.1 | 1471.4 | 1521.8 | 1592.7 | 1753.4 | 1989.7 | 2267.0 | 2486.0 | 2586.8 | 2471.8 |
| 42.5° | 1143.7 | 1183.1 | 1258.8 | 1296.6 | 1342.3 | 1482.5 | 1638.4 | 1901.5 | 2172.5 | 2388.3 | 2386.7 |
| 45°   | 1020.9 | 1049.2 | 1083.9 | 1115.4 | 1167.4 | 1250.9 | 1428.9 | 1625.8 | 1885.8 | 2130.0 | 2226.1 |
| 47.5° | 912.2  | 938.9  | 973.6  | 983.1  | 1017.7 | 1096.5 | 1205.2 | 1376.9 | 1619.5 | 1862.1 | 2043.3 |
| 50°   | 820.8  | 842.8  | 866.5  | 883.8  | 899.6  | 964.2  | 1046.1 | 1191.0 | 1384.8 | 1619.5 | 1844.8 |
| 52.5° | 749.9  | 765.6  | 786.1  | 795.6  | 809.8  | 857.0  | 920.0  | 1027.2 | 1186.3 | 1400.5 | 1619.5 |
| 55°   | 683.7  | 694.8  | 707.4  | 723.1  | 729.4  | 764.1  | 812.9  | 904.3  | 1022.4 | 1214.6 | 1422.6 |
| 57.5° | 622.3  | 627.0  | 634.9  | 644.3  | 652.2  | 682.2  | 724.7  | 786.1  | 890.1  | 1038.2 | 1235.1 |
| 60°   | 553.0  | 565.6  | 570.3  | 579.8  | 584.5  | 608.1  | 641.2  | 693.2  | 773.5  | 901.1  | 1049.2 |
| 62.5° | 494.7  | 502.6  | 510.4  | 515.2  | 526.2  | 534.1  | 560.8  | 608.1  | 674.3  | 768.8  | 902.7  |
| 65°   | 442.7  | 445.8  | 450.6  | 455.3  | 458.4  | 467.9  | 493.1  | 524.6  | 575.0  | 658.5  | 762.5  |
| 67.5° | 382.8  | 386.0  | 392.3  | 393.9  | 397.0  | 409.6  | 423.8  | 450.6  | 493.1  | 556.1  | 641.2  |
| 70°   | 324.5  | 329.3  | 332.4  | 335.6  | 340.3  | 345.0  | 360.8  | 382.8  | 415.9  | 460.0  | 526.2  |
| 72.5° | 274.1  | 278.8  | 278.8  | 282.0  | 280.4  | 286.7  | 302.5  | 318.2  | 340.3  | 376.5  | 434.8  |
| 75°   | 223.7  | 223.7  | 226.9  | 228.4  | 230.0  | 236.3  | 242.6  | 255.2  | 272.5  | 300.9  | 337.1  |
| 77.5° | 176.4  | 174.9  | 178.0  | 178.0  | 178.0  | 182.7  | 189.0  | 195.4  | 206.4  | 226.9  | 255.2  |
| 80°   | 129.2  | 129.2  | 132.3  | 133.9  | 130.8  | 132.3  | 135.5  | 141.8  | 149.7  | 163.8  | 179.6  |
| 82.5° | 85.1   | 91.4   | 89.8   | 91.4   | 89.8   | 92.9   | 94.5   | 96.1   | 99.3   | 105.6  | 116.6  |
| 85°   | 52.0   | 52.0   | 52.0   | 53.6   | 52.0   | 53.6   | 53.6   | 53.6   | 55.1   | 58.3   | 63.0   |
| 87.5° | 22.1   | 22.1   | 22.1   | 23.6   | 22.1   | 22.1   | 23.6   | 22.1   | 23.6   | 23.6   | 25.2   |
| 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°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1669.9 | 1665.2 | 1665.2 | 1662.1 | 1652.6 | 1635.3 | 1633.7 | 1636.9 | 1627.4 | 1617.9 | 1603.8 |
| 5°    | 1751.9 | 1721.9 | 1712.5 | 1703.0 | 1684.1 | 1652.6 | 1640.0 | 1629.0 | 1611.6 | 1591.2 | 1569.1 |
| 7.5°  | 1821.2 | 1778.6 | 1766.0 | 1748.7 | 1710.9 | 1666.8 | 1638.4 | 1614.8 | 1591.2 | 1562.8 | 1536.0 |
| 10°   | 1907.8 | 1846.4 | 1816.4 | 1791.2 | 1739.3 | 1677.8 | 1635.3 | 1600.6 | 1562.8 | 1528.1 | 1493.5 |
| 12.5° | 2005.5 | 1906.2 | 1896.8 | 1835.4 | 1775.5 | 1684.1 | 1632.1 | 1581.7 | 1531.3 | 1488.8 | 1452.5 |
| 15°   | 2087.4 | 1978.7 | 1939.3 | 1898.4 | 1783.4 | 1669.9 | 1619.5 | 1562.8 | 1504.5 | 1458.8 | 1405.3 |
| 17.5° | 2139.4 | 2049.6 | 1966.1 | 1911.0 | 1791.2 | 1690.4 | 1592.7 | 1528.1 | 1466.7 | 1403.7 | 1359.6 |
| 20°   | 2202.4 | 2071.7 | 1999.2 | 1925.2 | 1807.0 | 1674.7 | 1577.0 | 1496.6 | 1421.0 | 1364.3 | 1310.7 |
| 22.5° | 2265.4 | 2089.0 | 2029.1 | 1948.8 | 1810.1 | 1658.9 | 1548.6 | 1468.3 | 1381.6 | 1324.9 | 1266.6 |
| 25°   | 2259.1 | 2114.2 | 2015.0 | 1947.2 | 1778.6 | 1644.7 | 1515.5 | 1421.0 | 1340.7 | 1268.2 | 1209.9 |
| 27.5° | 2263.9 | 2085.8 | 1985.0 | 1906.2 | 1756.6 | 1624.2 | 1480.9 | 1381.6 | 1298.1 | 1222.5 | 1161.1 |
| 30°   | 2265.4 | 2043.3 | 1955.1 | 1860.6 | 1715.6 | 1575.4 | 1441.5 | 1340.7 | 1252.5 | 1170.5 | 1115.4 |
| 32.5° | 2260.7 | 2008.6 | 1898.4 | 1813.3 | 1651.0 | 1528.1 | 1395.8 | 1288.7 | 1198.9 | 1123.3 | 1071.3 |
| 35°   | 2249.7 | 1967.7 | 1840.1 | 1733.0 | 1584.9 | 1460.4 | 1353.3 | 1243.0 | 1146.9 | 1077.6 | 1017.7 |
| 37.5° | 2219.8 | 1923.6 | 1778.6 | 1673.1 | 1507.7 | 1381.6 | 1287.1 | 1195.7 | 1102.8 | 1020.9 | 970.5  |
| 40°   | 2197.7 | 1863.7 | 1717.2 | 1602.2 | 1424.2 | 1301.3 | 1222.5 | 1135.9 | 1044.5 | 970.5  | 921.6  |
| 42.5° | 2147.3 | 1807.0 | 1654.2 | 1517.1 | 1342.3 | 1216.2 | 1142.2 | 1072.9 | 994.1  | 921.6  | 877.5  |
| 45°   | 2065.4 | 1745.6 | 1577.0 | 1438.4 | 1252.5 | 1132.7 | 1065.0 | 1008.3 | 938.9  | 869.6  | 825.5  |
| 47.5° | 1950.4 | 1657.3 | 1495.1 | 1356.4 | 1164.2 | 1042.9 | 975.2  | 932.6  | 877.5  | 819.2  | 781.4  |
| 50°   | 1825.9 | 1561.2 | 1411.6 | 1274.5 | 1079.2 | 961.0  | 894.8  | 855.4  | 819.2  | 765.6  | 729.4  |
| 52.5° | 1663.6 | 1458.8 | 1315.5 | 1184.7 | 987.8  | 874.4  | 816.1  | 787.7  | 749.9  | 712.1  | 680.6  |
| 55°   | 1506.1 | 1326.5 | 1208.3 | 1083.9 | 898.0  | 792.4  | 735.7  | 705.8  | 683.7  | 652.2  | 627.0  |
| 57.5° | 1323.3 | 1203.6 | 1094.9 | 981.5  | 814.5  | 718.4  | 664.8  | 628.6  | 614.4  | 600.2  | 576.6  |
| 60°   | 1154.8 | 1063.4 | 975.2  | 880.7  | 727.8  | 641.2  | 589.2  | 560.8  | 546.7  | 537.2  | 521.5  |
| 62.5° | 1000.4 | 929.5  | 853.9  | 778.3  | 639.6  | 560.8  | 521.5  | 493.1  | 480.5  | 478.9  | 464.7  |
| 65°   | 852.3  | 801.9  | 740.4  | 666.4  | 557.7  | 488.4  | 450.6  | 433.2  | 419.1  | 419.1  | 408.0  |
| 67.5° | 704.2  | 669.5  | 620.7  | 568.7  | 483.7  | 419.1  | 384.4  | 368.6  | 360.8  | 360.8  | 352.9  |
| 70°   | 586.1  | 562.4  | 518.3  | 472.6  | 398.6  | 349.7  | 323.0  | 308.8  | 304.1  | 305.6  | 299.3  |
| 72.5° | 475.8  | 450.6  | 414.3  | 381.2  | 326.1  | 289.9  | 271.0  | 255.2  | 247.3  | 248.9  | 247.3  |
| 75°   | 368.6  | 356.0  | 324.5  | 299.3  | 255.2  | 230.0  | 212.7  | 204.8  | 198.5  | 200.1  | 196.9  |
| 77.5° | 277.3  | 258.4  | 241.0  | 223.7  | 196.9  | 176.4  | 162.3  | 154.4  | 149.7  | 149.7  | 149.7  |
| 80°   | 189.0  | 185.9  | 171.7  | 162.3  | 140.2  | 124.5  | 113.4  | 111.9  | 107.1  | 107.1  | 107.1  |
| 82.5° | 122.9  | 115.0  | 107.1  | 100.8  | 88.2   | 78.8   | 74.0   | 70.9   | 69.3   | 67.7   | 70.9   |
| 85°   | 67.7   | 63.0   | 59.9   | 53.6   | 48.8   | 44.1   | 39.4   | 37.8   | 36.2   | 37.8   | 36.2   |
| 87.5° | 26.8   | 22.1   | 22.1   | 20.5   | 18.9   | 17.3   | 17.3   | 14.2   | 14.2   | 12.6   | 12.6   |
| 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°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1600.6 | 1599.0 | 1602.2 | 1592.7 | 1577.0 | 1569.1 | 1547.1 | 1542.3 | 1540.8 | 1542.3 | 1543.9 |
| 5°    | 1556.5 | 1554.9 | 1550.2 | 1534.5 | 1515.5 | 1501.4 | 1474.6 | 1473.0 | 1463.6 | 1454.1 | 1458.8 |
| 7.5°  | 1514.0 | 1507.7 | 1498.2 | 1477.7 | 1452.5 | 1436.8 | 1414.7 | 1399.0 | 1386.4 | 1378.5 | 1372.2 |
| 10°   | 1471.4 | 1462.0 | 1452.5 | 1425.7 | 1394.2 | 1370.6 | 1343.8 | 1331.2 | 1317.0 | 1310.7 | 1304.4 |
| 12.5° | 1416.3 | 1406.8 | 1389.5 | 1358.0 | 1339.1 | 1309.2 | 1282.4 | 1269.8 | 1261.9 | 1249.3 | 1241.4 |
| 15°   | 1372.2 | 1353.3 | 1343.8 | 1310.7 | 1271.4 | 1268.2 | 1219.4 | 1216.2 | 1200.5 | 1200.5 | 1187.9 |
| 17.5° | 1321.8 | 1307.6 | 1290.3 | 1257.2 | 1228.8 | 1200.5 | 1175.3 | 1165.8 | 1151.6 | 1148.5 | 1142.2 |
| 20°   | 1272.9 | 1254.0 | 1247.7 | 1214.6 | 1184.7 | 1150.1 | 1123.3 | 1113.8 | 1107.5 | 1101.2 | 1105.9 |
| 22.5° | 1222.5 | 1206.8 | 1191.0 | 1161.1 | 1139.0 | 1104.4 | 1088.6 | 1079.2 | 1069.7 | 1066.6 | 1068.1 |
| 25°   | 1173.7 | 1159.5 | 1143.7 | 1113.8 | 1090.2 | 1061.8 | 1047.6 | 1042.9 | 1038.2 | 1038.2 | 1036.6 |
| 27.5° | 1126.4 | 1112.2 | 1098.1 | 1071.3 | 1047.6 | 1027.2 | 1016.1 | 1011.4 | 1006.7 | 1009.8 | 1013.0 |
| 30°   | 1077.6 | 1065.0 | 1052.4 | 1028.7 | 1009.8 | 990.9  | 984.6  | 981.5  | 979.9  | 987.8  | 987.8  |
| 32.5° | 1033.5 | 1022.4 | 1013.0 | 990.9  | 972.0  | 956.3  | 951.5  | 953.1  | 954.7  | 959.4  | 962.6  |
| 35°   | 987.8  | 979.9  | 970.5  | 951.5  | 935.8  | 921.6  | 923.2  | 923.2  | 926.3  | 934.2  | 940.5  |
| 37.5° | 946.8  | 935.8  | 927.9  | 912.2  | 899.6  | 887.0  | 891.7  | 896.4  | 899.6  | 909.0  | 912.2  |
| 40°   | 898.0  | 893.3  | 887.0  | 871.2  | 860.2  | 858.6  | 860.2  | 863.3  | 869.6  | 874.4  | 879.1  |
| 42.5° | 858.6  | 852.3  | 844.4  | 831.8  | 822.4  | 823.9  | 825.5  | 828.7  | 831.8  | 839.7  | 844.4  |
| 45°   | 814.5  | 809.8  | 803.5  | 792.4  | 784.6  | 786.1  | 787.7  | 787.7  | 790.9  | 800.3  | 803.5  |
| 47.5° | 765.6  | 767.2  | 759.3  | 748.3  | 743.6  | 743.6  | 743.6  | 746.7  | 754.6  | 757.8  | 759.3  |
| 50°   | 718.4  | 715.2  | 713.7  | 702.6  | 699.5  | 697.9  | 699.5  | 701.1  | 712.1  | 710.5  | 715.2  |
| 52.5° | 668.0  | 668.0  | 666.4  | 660.1  | 655.4  | 655.4  | 652.2  | 660.1  | 663.2  | 666.4  | 671.1  |
| 55°   | 619.1  | 614.4  | 612.8  | 609.7  | 603.4  | 601.8  | 605.0  | 614.4  | 617.6  | 620.7  | 625.4  |
| 57.5° | 565.6  | 565.6  | 562.4  | 557.7  | 557.7  | 557.7  | 557.7  | 564.0  | 568.7  | 571.9  | 581.3  |
| 60°   | 516.7  | 510.4  | 505.7  | 505.7  | 505.7  | 504.1  | 513.6  | 513.6  | 523.0  | 524.6  | 527.8  |
| 62.5° | 458.4  | 455.3  | 452.1  | 453.7  | 452.1  | 455.3  | 458.4  | 464.7  | 466.3  | 471.0  | 475.8  |
| 65°   | 403.3  | 403.3  | 400.2  | 409.6  | 403.3  | 403.3  | 411.2  | 411.2  | 414.3  | 419.1  | 425.4  |
| 67.5° | 349.7  | 351.3  | 348.2  | 348.2  | 351.3  | 352.9  | 354.5  | 360.8  | 362.3  | 368.6  | 376.5  |
| 70°   | 294.6  | 297.8  | 299.3  | 296.2  | 299.3  | 302.5  | 305.6  | 307.2  | 313.5  | 316.7  | 321.4  |
| 72.5° | 245.8  | 248.9  | 244.2  | 245.8  | 247.3  | 250.5  | 252.1  | 255.2  | 258.4  | 267.8  | 271.0  |
| 75°   | 196.9  | 195.4  | 193.8  | 200.1  | 196.9  | 203.2  | 204.8  | 204.8  | 208.0  | 215.8  | 219.0  |
| 77.5° | 151.2  | 151.2  | 152.8  | 149.7  | 154.4  | 152.8  | 154.4  | 159.1  | 163.8  | 163.8  | 176.4  |
| 80°   | 105.6  | 108.7  | 108.7  | 108.7  | 110.3  | 111.9  | 108.7  | 116.6  | 118.2  | 118.2  | 122.9  |
| 82.5° | 67.7   | 69.3   | 67.7   | 70.9   | 70.9   | 74.0   | 72.5   | 74.0   | 77.2   | 80.3   | 81.9   |
| 85°   | 36.2   | 36.2   | 39.4   | 39.4   | 37.8   | 39.4   | 37.8   | 39.4   | 42.5   | 42.5   | 44.1   |
| 87.5° | 12.6   | 12.6   | 12.6   | 12.6   | 14.2   | 12.6   | 14.2   | 14.2   | 12.6   | 12.6   | 17.3   |
| 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°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1542.3 | 1543.9 | 1537.6 | 1532.9 | 1545.5 | 1537.6 | 1537.6 | 1539.2 | 1536.0 | 1540.8 | 1539.2 |
| 5°    | 1455.7 | 1457.3 | 1446.2 | 1449.4 | 1443.1 | 1441.5 | 1439.9 | 1449.4 | 1447.8 | 1446.2 | 1449.4 |
| 7.5°  | 1370.6 | 1370.6 | 1365.9 | 1362.7 | 1362.7 | 1358.0 | 1364.3 | 1362.7 | 1365.9 | 1365.9 | 1370.6 |
| 10°   | 1299.7 | 1302.9 | 1295.0 | 1287.1 | 1285.5 | 1287.1 | 1287.1 | 1288.7 | 1290.3 | 1301.3 | 1299.7 |
| 12.5° | 1241.4 | 1236.7 | 1235.1 | 1230.4 | 1222.5 | 1219.4 | 1216.2 | 1233.5 | 1228.8 | 1228.8 | 1228.8 |
| 15°   | 1176.8 | 1187.9 | 1186.3 | 1172.1 | 1169.0 | 1175.3 | 1172.1 | 1172.1 | 1187.9 | 1186.3 | 1184.7 |
| 17.5° | 1142.2 | 1139.0 | 1135.9 | 1128.0 | 1129.6 | 1128.0 | 1129.6 | 1129.6 | 1139.0 | 1139.0 | 1139.0 |
| 20°   | 1102.8 | 1096.5 | 1096.5 | 1093.3 | 1093.3 | 1088.6 | 1094.9 | 1096.5 | 1102.8 | 1102.8 | 1104.4 |
| 22.5° | 1068.1 | 1063.4 | 1063.4 | 1061.8 | 1065.0 | 1058.7 | 1065.0 | 1066.6 | 1066.6 | 1071.3 | 1071.3 |
| 25°   | 1038.2 | 1035.0 | 1035.0 | 1038.2 | 1038.2 | 1038.2 | 1038.2 | 1044.5 | 1039.8 | 1041.3 | 1039.8 |
| 27.5° | 1011.4 | 1013.0 | 1014.6 | 1016.1 | 1014.6 | 1016.1 | 1017.7 | 1020.9 | 1022.4 | 1020.9 | 1017.7 |
| 30°   | 986.2  | 990.9  | 992.5  | 992.5  | 995.7  | 997.2  | 998.8  | 998.8  | 1000.4 | 995.7  | 998.8  |
| 32.5° | 967.3  | 967.3  | 970.5  | 972.0  | 975.2  | 976.8  | 976.8  | 979.9  | 978.3  | 973.6  | 975.2  |
| 35°   | 940.5  | 940.5  | 946.8  | 950.0  | 954.7  | 953.1  | 954.7  | 954.7  | 956.3  | 953.1  | 948.4  |
| 37.5° | 913.7  | 916.9  | 916.9  | 923.2  | 924.8  | 926.3  | 924.8  | 927.9  | 926.3  | 923.2  | 921.6  |
| 40°   | 882.2  | 880.7  | 882.2  | 887.0  | 888.5  | 888.5  | 888.5  | 891.7  | 891.7  | 891.7  | 890.1  |
| 42.5° | 842.8  | 847.6  | 846.0  | 850.7  | 849.1  | 849.1  | 852.3  | 855.4  | 857.0  | 852.3  | 853.9  |
| 45°   | 805.0  | 805.0  | 808.2  | 808.2  | 809.8  | 809.8  | 816.1  | 812.9  | 816.1  | 812.9  | 814.5  |
| 47.5° | 764.1  | 765.6  | 765.6  | 767.2  | 770.4  | 773.5  | 770.4  | 772.0  | 772.0  | 773.5  | 770.4  |
| 50°   | 718.4  | 718.4  | 721.5  | 726.3  | 732.6  | 729.4  | 727.8  | 734.1  | 729.4  | 729.4  | 726.3  |
| 52.5° | 671.1  | 675.9  | 677.4  | 682.2  | 686.9  | 688.5  | 690.0  | 686.9  | 688.5  | 683.7  | 685.3  |
| 55°   | 625.4  | 627.0  | 633.3  | 638.0  | 642.8  | 642.8  | 641.2  | 642.8  | 644.3  | 638.0  | 638.0  |
| 57.5° | 579.8  | 584.5  | 590.8  | 590.8  | 597.1  | 597.1  | 595.5  | 595.5  | 597.1  | 592.4  | 590.8  |
| 60°   | 530.9  | 535.6  | 543.5  | 543.5  | 553.0  | 554.5  | 551.4  | 548.2  | 548.2  | 543.5  | 545.1  |
| 62.5° | 478.9  | 483.7  | 488.4  | 496.3  | 502.6  | 499.4  | 505.7  | 499.4  | 501.0  | 491.5  | 491.5  |
| 65°   | 433.2  | 434.8  | 442.7  | 450.6  | 450.6  | 453.7  | 450.6  | 452.1  | 447.4  | 447.4  | 441.1  |
| 67.5° | 379.7  | 379.7  | 387.6  | 395.4  | 403.3  | 403.3  | 403.3  | 398.6  | 398.6  | 393.9  | 393.9  |
| 70°   | 332.4  | 330.8  | 338.7  | 343.4  | 348.2  | 349.7  | 346.6  | 345.0  | 341.9  | 337.1  | 335.6  |
| 72.5° | 274.1  | 277.3  | 285.1  | 288.3  | 296.2  | 294.6  | 302.5  | 293.0  | 293.0  | 285.1  | 283.6  |
| 75°   | 222.1  | 225.3  | 233.2  | 237.9  | 242.6  | 242.6  | 247.3  | 242.6  | 236.3  | 233.2  | 231.6  |
| 77.5° | 176.4  | 174.9  | 181.2  | 189.0  | 190.6  | 189.0  | 192.2  | 190.6  | 184.3  | 184.3  | 181.2  |
| 80°   | 126.0  | 130.8  | 137.1  | 135.5  | 141.8  | 140.2  | 140.2  | 137.1  | 137.1  | 132.3  | 135.5  |
| 82.5° | 83.5   | 88.2   | 89.8   | 88.2   | 89.8   | 92.9   | 94.5   | 92.9   | 92.9   | 89.8   | 91.4   |
| 85°   | 44.1   | 44.1   | 47.3   | 48.8   | 47.3   | 47.3   | 48.8   | 53.6   | 50.4   | 47.3   | 50.4   |
| 87.5° | 14.2   | 12.6   | 12.6   | 14.2   | 12.6   | 12.6   | 14.2   | 14.2   | 15.8   | 15.8   | 15.8   |
| 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: P1037277

CATALOG NUMBER: S123DS-B1165DB30-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1543.9 | 1547.1 | 1548.6 | 1542.3 | 1537.6 | 1545.5 | 1556.5 | 1564.4 | 1570.7 | 1578.6 | 1583.3 |
| 5°    | 1452.5 | 1463.6 | 1463.6 | 1466.7 | 1471.4 | 1479.3 | 1499.8 | 1514.0 | 1526.6 | 1536.0 | 1543.9 |
| 7.5°  | 1375.3 | 1383.2 | 1387.9 | 1395.8 | 1403.7 | 1414.7 | 1438.4 | 1458.8 | 1477.7 | 1488.8 | 1501.4 |
| 10°   | 1306.0 | 1312.3 | 1320.2 | 1324.9 | 1339.1 | 1354.9 | 1384.8 | 1402.1 | 1424.2 | 1441.5 | 1457.3 |
| 12.5° | 1239.8 | 1261.9 | 1266.6 | 1265.1 | 1277.7 | 1295.0 | 1324.9 | 1351.7 | 1375.3 | 1392.7 | 1410.0 |
| 15°   | 1192.6 | 1200.5 | 1209.9 | 1208.3 | 1235.1 | 1239.8 | 1265.1 | 1296.6 | 1328.1 | 1339.1 | 1354.9 |
| 17.5° | 1140.6 | 1153.2 | 1162.7 | 1167.4 | 1175.3 | 1192.6 | 1216.2 | 1239.8 | 1280.8 | 1282.4 | 1323.3 |
| 20°   | 1099.6 | 1112.2 | 1118.5 | 1124.8 | 1129.6 | 1150.1 | 1170.5 | 1197.3 | 1230.4 | 1247.7 | 1269.8 |
| 22.5° | 1072.9 | 1079.2 | 1083.9 | 1088.6 | 1094.9 | 1105.9 | 1131.1 | 1161.1 | 1183.1 | 1202.0 | 1216.2 |
| 25°   | 1041.3 | 1047.6 | 1054.0 | 1057.1 | 1061.8 | 1068.1 | 1087.0 | 1110.7 | 1142.2 | 1154.8 | 1169.0 |
| 27.5° | 1019.3 | 1019.3 | 1022.4 | 1022.4 | 1028.7 | 1035.0 | 1049.2 | 1071.3 | 1096.5 | 1112.2 | 1131.1 |
| 30°   | 995.7  | 994.1  | 995.7  | 994.1  | 992.5  | 1002.0 | 1014.6 | 1033.5 | 1050.8 | 1069.7 | 1082.3 |
| 32.5° | 972.0  | 970.5  | 970.5  | 972.0  | 965.7  | 970.5  | 976.8  | 994.1  | 1013.0 | 1022.4 | 1036.6 |
| 35°   | 946.8  | 943.7  | 943.7  | 943.7  | 940.5  | 937.4  | 943.7  | 959.4  | 972.0  | 984.6  | 995.7  |
| 37.5° | 921.6  | 916.9  | 916.9  | 913.7  | 910.6  | 905.9  | 905.9  | 918.5  | 935.8  | 940.5  | 954.7  |
| 40°   | 887.0  | 887.0  | 883.8  | 882.2  | 879.1  | 875.9  | 871.2  | 882.2  | 898.0  | 902.7  | 913.7  |
| 42.5° | 852.3  | 847.6  | 846.0  | 846.0  | 846.0  | 841.3  | 838.1  | 846.0  | 855.4  | 863.3  | 869.6  |
| 45°   | 812.9  | 809.8  | 811.3  | 809.8  | 806.6  | 805.0  | 803.5  | 806.6  | 817.6  | 820.8  | 828.7  |
| 47.5° | 770.4  | 768.8  | 768.8  | 767.2  | 765.6  | 767.2  | 760.9  | 768.8  | 772.0  | 775.1  | 781.4  |
| 50°   | 726.3  | 724.7  | 723.1  | 721.5  | 721.5  | 723.1  | 721.5  | 721.5  | 727.8  | 731.0  | 737.3  |
| 52.5° | 682.2  | 677.4  | 677.4  | 675.9  | 675.9  | 672.7  | 675.9  | 677.4  | 680.6  | 683.7  | 686.9  |
| 55°   | 634.9  | 634.9  | 630.2  | 630.2  | 627.0  | 627.0  | 628.6  | 627.0  | 633.3  | 636.5  | 636.5  |
| 57.5° | 589.2  | 582.9  | 584.5  | 581.3  | 578.2  | 576.6  | 576.6  | 579.8  | 582.9  | 582.9  | 586.1  |
| 60°   | 540.4  | 534.1  | 532.5  | 526.2  | 529.3  | 524.6  | 526.2  | 526.2  | 532.5  | 529.3  | 532.5  |
| 62.5° | 491.5  | 483.7  | 478.9  | 475.8  | 475.8  | 477.3  | 474.2  | 472.6  | 475.8  | 478.9  | 485.2  |
| 65°   | 439.5  | 434.8  | 430.1  | 425.4  | 425.4  | 423.8  | 426.9  | 422.2  | 420.6  | 422.2  | 425.4  |
| 67.5° | 386.0  | 381.2  | 376.5  | 371.8  | 373.4  | 368.6  | 365.5  | 370.2  | 367.1  | 368.6  | 371.8  |
| 70°   | 334.0  | 330.8  | 321.4  | 318.2  | 316.7  | 318.2  | 316.7  | 313.5  | 318.2  | 316.7  | 318.2  |
| 72.5° | 282.0  | 278.8  | 274.1  | 266.2  | 266.2  | 264.7  | 263.1  | 263.1  | 261.5  | 261.5  | 261.5  |
| 75°   | 231.6  | 225.3  | 220.6  | 219.0  | 215.8  | 214.3  | 212.7  | 209.5  | 211.1  | 212.7  | 209.5  |
| 77.5° | 179.6  | 171.7  | 170.1  | 170.1  | 165.4  | 165.4  | 167.0  | 165.4  | 163.8  | 163.8  | 163.8  |
| 80°   | 132.3  | 126.0  | 126.0  | 122.9  | 119.7  | 119.7  | 119.7  | 119.7  | 118.2  | 116.6  | 118.2  |
| 82.5° | 85.1   | 83.5   | 81.9   | 81.9   | 85.1   | 78.8   | 81.9   | 80.3   | 78.8   | 78.8   | 77.2   |
| 85°   | 47.3   | 48.8   | 47.3   | 48.8   | 45.7   | 47.3   | 47.3   | 47.3   | 45.7   | 47.3   | 44.1   |
| 87.5° | 17.3   | 17.3   | 17.3   | 18.9   | 18.9   | 18.9   | 18.9   | 18.9   | 20.5   | 18.9   | 18.9   |
| 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: P1037277

CATALOG NUMBER: S123DS-B1165DB30-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1625.8 | 1625.8 | 1625.8 | 1625.8 |
| 2.5°  | 1591.2 | 1595.9 | 1611.6 | 1630.6 |
| 5°    | 1559.7 | 1572.3 | 1594.3 | 1624.2 |
| 7.5°  | 1525.0 | 1543.9 | 1575.4 | 1613.2 |
| 10°   | 1485.6 | 1512.4 | 1551.8 | 1599.0 |
| 12.5° | 1443.1 | 1477.7 | 1528.1 | 1577.0 |
| 15°   | 1416.3 | 1451.0 | 1496.6 | 1550.2 |
| 17.5° | 1364.3 | 1405.3 | 1452.5 | 1528.1 |
| 20°   | 1310.7 | 1356.4 | 1417.9 | 1493.5 |
| 22.5° | 1269.8 | 1318.6 | 1376.9 | 1457.3 |
| 25°   | 1220.9 | 1271.4 | 1334.4 | 1417.9 |
| 27.5° | 1169.0 | 1219.4 | 1290.3 | 1378.5 |
| 30°   | 1129.6 | 1178.4 | 1246.2 | 1340.7 |
| 32.5° | 1082.3 | 1129.6 | 1200.5 | 1299.7 |
| 35°   | 1028.7 | 1082.3 | 1150.1 | 1250.9 |
| 37.5° | 987.8  | 1036.6 | 1107.5 | 1203.6 |
| 40°   | 943.7  | 986.2  | 1055.5 | 1150.1 |
| 42.5° | 896.4  | 943.7  | 1003.5 | 1098.1 |
| 45°   | 852.3  | 887.0  | 948.4  | 1038.2 |
| 47.5° | 805.0  | 844.4  | 891.7  | 961.0  |
| 50°   | 754.6  | 787.7  | 839.7  | 887.0  |
| 52.5° | 705.8  | 732.6  | 776.7  | 812.9  |
| 55°   | 653.8  | 680.6  | 713.7  | 735.7  |
| 57.5° | 605.0  | 623.9  | 645.9  | 660.1  |
| 60°   | 545.1  | 564.0  | 578.2  | 592.4  |
| 62.5° | 491.5  | 505.7  | 513.6  | 521.5  |
| 65°   | 436.4  | 444.3  | 449.0  | 455.3  |
| 67.5° | 376.5  | 384.4  | 386.0  | 395.4  |
| 70°   | 321.4  | 323.0  | 326.1  | 330.8  |
| 72.5° | 269.4  | 272.5  | 271.0  | 274.1  |
| 75°   | 215.8  | 219.0  | 215.8  | 219.0  |
| 77.5° | 163.8  | 167.0  | 167.0  | 171.7  |
| 80°   | 118.2  | 119.7  | 121.3  | 121.3  |
| 82.5° | 77.2   | 81.9   | 78.8   | 80.3   |
| 85°   | 44.1   | 45.7   | 45.7   | 47.3   |
| 87.5° | 20.5   | 22.1   | 20.5   | 23.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)