

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: P1000286

Luminaire Tested: SA4XXDP-B1020DB50-4F0-XX-W2A-A

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1000286  
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: SA4XXDP-B1020DB50-4F0-XX-W2A-A  
Description: Define 4 Direct Recessed with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

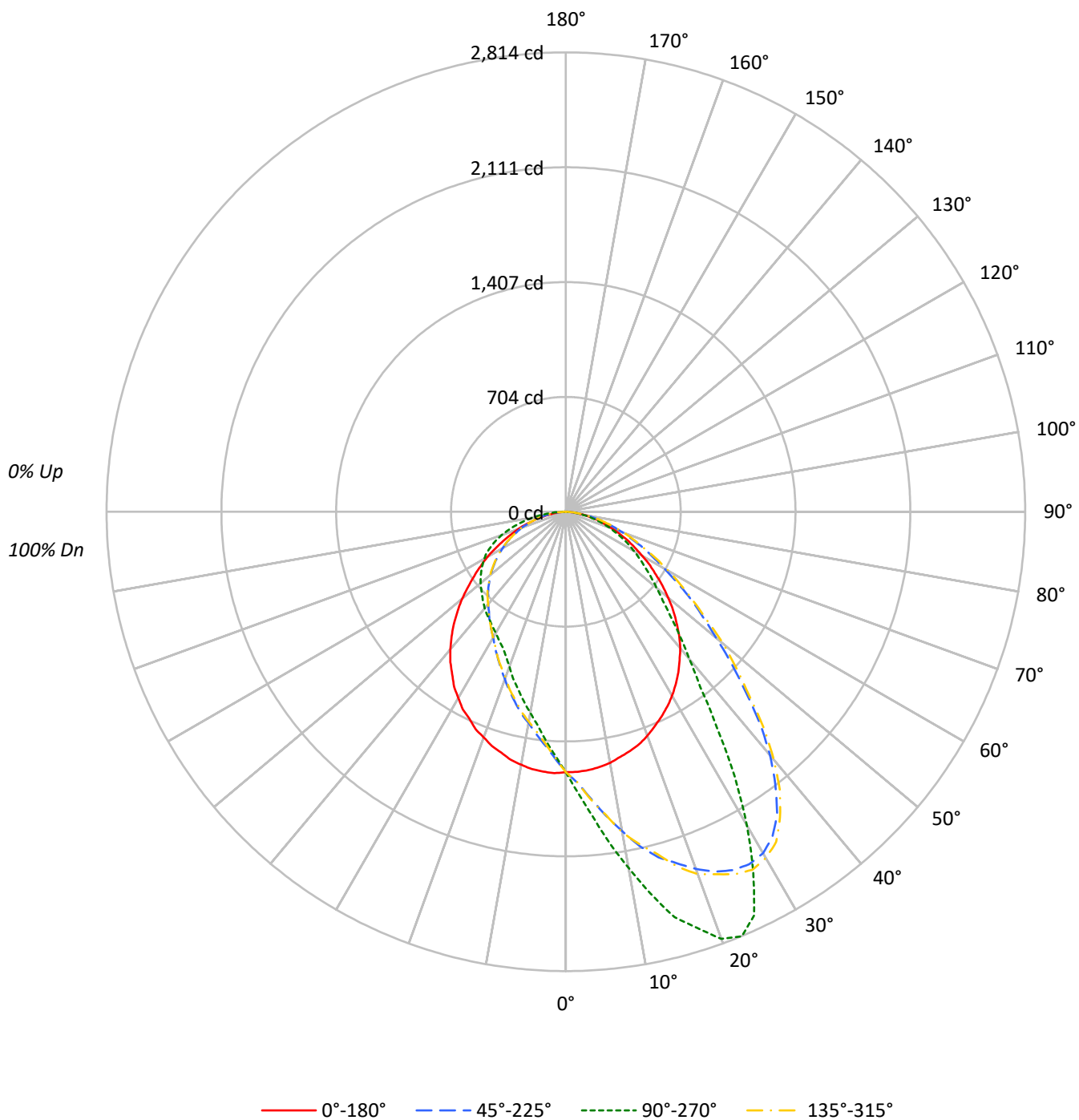
Lumens per Lamp: N/A  
Luminaire Lumens: 4401.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



TEST NUMBER: P1000286

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

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 13006 | 13006 | 13006 | 13006 |
| 5°  | 13001 | 15316 | 13077 | 11508 |
| 10° | 12933 | 18338 | 13032 | 10361 |
| 15° | 12806 | 21697 | 12895 | 9515  |
| 20° | 12670 | 24160 | 12762 | 8760  |
| 25° | 12460 | 24551 | 12578 | 8239  |
| 30° | 12256 | 20890 | 12405 | 8075  |
| 35° | 11957 | 16061 | 12088 | 8076  |
| 40° | 11604 | 12518 | 11717 | 8229  |
| 45° | 11048 | 10438 | 11185 | 8365  |
| 50° | 10376 | 9186  | 10527 | 8649  |
| 55° | 9581  | 8416  | 9731  | 8998  |
| 60° | 8813  | 7887  | 9073  | 9417  |
| 65° | 8108  | 7344  | 8185  | 9765  |
| 70° | 7277  | 6712  | 7434  | 9987  |
| 75° | 6493  | 5996  | 6453  | 9868  |
| 80° | 5335  | 5025  | 5274  | 9556  |
| 85° | 3958  | 3705  | 3705  | 9150  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 20084 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.2  | 3.5       |
| 10°-20°   | 479.1  | 10.9      |
| 20°-30°   | 761.1  | 17.3      |
| 30°-40°   | 845.7  | 19.2      |
| 40°-50°   | 769.1  | 17.5      |
| 50°-60°   | 628.5  | 14.3      |
| 60°-70°   | 448.6  | 10.2      |
| 70°-80°   | 246.9  | 5.6       |
| 80°-90°   | 66.7   | 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°    | 1395.4 | 31.7      |
| 0°-40°    | 2241.2 | 50.9      |
| 0°-60°    | 3638.8 | 82.7      |
| 0°-90°    | 4401.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4401.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1595 | 1595 | 1595 | 1595 | 1595 |      |
| 5°  | 1588 | 1871 | 1598 | 1406 | 1588 | 151  |
| 15° | 1517 | 2570 | 1528 | 1127 | 1517 | 428  |
| 25° | 1385 | 2729 | 1398 | 916  | 1385 | 638  |
| 35° | 1201 | 1613 | 1214 | 811  | 1201 | 750  |
| 45° | 958  | 905  | 970  | 725  | 958  | 739  |
| 55° | 674  | 592  | 684  | 633  | 674  | 606  |
| 65° | 420  | 381  | 424  | 506  | 420  | 415  |
| 75° | 206  | 190  | 205  | 313  | 206  | 216  |
| 85° | 42   | 40   | 40   | 98   | 42   | 52   |
| 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°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1594.9 | 1610.8 | 1617.4 | 1622.6 | 1639.8 | 1645.1 | 1646.4 | 1654.4 | 1661.0 | 1662.3 | 1662.3 |
| 5°    | 1588.3 | 1613.4 | 1633.2 | 1651.7 | 1679.5 | 1691.4 | 1705.9 | 1721.7 | 1742.9 | 1756.1 | 1762.7 |
| 7.5°  | 1577.7 | 1614.7 | 1645.1 | 1676.8 | 1715.1 | 1738.9 | 1752.1 | 1794.4 | 1823.5 | 1847.3 | 1876.3 |
| 10°   | 1561.9 | 1609.4 | 1653.0 | 1699.3 | 1753.5 | 1782.5 | 1811.6 | 1863.1 | 1904.1 | 1950.3 | 1987.3 |
| 12.5° | 1538.1 | 1600.2 | 1653.0 | 1717.8 | 1785.2 | 1819.5 | 1853.9 | 1943.7 | 1991.3 | 2032.3 | 2098.3 |
| 15°   | 1516.9 | 1579.0 | 1654.4 | 1720.4 | 1803.7 | 1855.2 | 1905.4 | 1963.6 | 2038.9 | 2127.4 | 2190.8 |
| 17.5° | 1493.2 | 1571.1 | 1641.1 | 1733.6 | 1826.1 | 1875.0 | 1916.0 | 2005.8 | 2111.6 | 2198.8 | 2256.9 |
| 20°   | 1460.1 | 1539.4 | 1631.9 | 1729.7 | 1839.3 | 1877.7 | 1931.8 | 2052.1 | 2147.2 | 2233.1 | 2328.3 |
| 22.5° | 1421.8 | 1514.3 | 1612.1 | 1705.9 | 1819.5 | 1900.1 | 1959.6 | 2065.3 | 2180.3 | 2279.4 | 2386.4 |
| 25°   | 1384.8 | 1485.2 | 1571.1 | 1699.3 | 1819.5 | 1873.7 | 1941.1 | 2066.6 | 2192.2 | 2312.4 | 2422.1 |
| 27.5° | 1345.2 | 1439.0 | 1555.3 | 1657.0 | 1793.1 | 1852.6 | 1925.2 | 2062.7 | 2196.1 | 2316.4 | 2434.0 |
| 30°   | 1301.6 | 1402.0 | 1498.4 | 1618.7 | 1750.8 | 1827.5 | 1894.8 | 2044.2 | 2180.3 | 2305.8 | 2415.5 |
| 32.5° | 1252.7 | 1347.8 | 1450.9 | 1564.5 | 1703.2 | 1781.2 | 1865.8 | 2019.1 | 2164.4 | 2272.8 | 2357.3 |
| 35°   | 1201.1 | 1297.6 | 1387.4 | 1503.7 | 1646.4 | 1724.4 | 1806.3 | 1975.5 | 2119.5 | 2208.0 | 2256.9 |
| 37.5° | 1144.3 | 1235.5 | 1324.0 | 1439.0 | 1581.7 | 1664.9 | 1748.2 | 1912.0 | 2048.1 | 2122.1 | 2108.9 |
| 40°   | 1090.1 | 1172.1 | 1254.0 | 1362.3 | 1511.6 | 1600.2 | 1672.9 | 1838.0 | 1957.0 | 1988.7 | 1945.1 |
| 42.5° | 1028.0 | 1098.1 | 1177.3 | 1288.3 | 1433.7 | 1516.9 | 1608.1 | 1758.7 | 1847.3 | 1834.1 | 1760.1 |
| 45°   | 958.0  | 1020.1 | 1099.4 | 1203.8 | 1351.8 | 1437.7 | 1514.3 | 1657.0 | 1721.7 | 1688.7 | 1553.9 |
| 47.5° | 890.6  | 951.4  | 1016.1 | 1120.5 | 1264.6 | 1337.2 | 1415.2 | 1543.4 | 1580.4 | 1510.3 | 1375.5 |
| 50°   | 817.9  | 868.1  | 935.5  | 1034.6 | 1169.4 | 1246.1 | 1310.8 | 1413.9 | 1427.1 | 1341.2 | 1201.1 |
| 52.5° | 747.9  | 790.2  | 854.9  | 952.7  | 1078.2 | 1139.0 | 1202.4 | 1293.6 | 1283.1 | 1194.5 | 1059.7 |
| 55°   | 673.9  | 713.5  | 773.0  | 862.9  | 973.9  | 1032.0 | 1086.2 | 1166.8 | 1144.3 | 1053.1 | 935.5  |
| 57.5° | 611.8  | 639.5  | 697.7  | 780.9  | 872.1  | 935.5  | 981.8  | 1045.2 | 1010.8 | 919.7  | 810.0  |
| 60°   | 540.4  | 574.8  | 623.7  | 691.1  | 780.9  | 823.2  | 864.2  | 906.5  | 882.7  | 795.5  | 697.7  |
| 62.5° | 475.7  | 502.1  | 544.4  | 609.2  | 679.2  | 717.5  | 761.1  | 787.5  | 763.8  | 683.1  | 601.2  |
| 65°   | 420.2  | 441.3  | 474.4  | 527.2  | 594.6  | 626.3  | 651.4  | 676.5  | 656.7  | 581.4  | 521.9  |
| 67.5° | 359.4  | 377.9  | 405.7  | 447.9  | 504.8  | 527.2  | 551.0  | 568.2  | 545.7  | 495.5  | 437.4  |
| 70°   | 305.2  | 318.5  | 344.9  | 376.6  | 416.2  | 437.4  | 457.2  | 474.4  | 454.6  | 412.3  | 368.7  |
| 72.5° | 249.7  | 260.3  | 284.1  | 306.6  | 342.2  | 356.8  | 371.3  | 384.5  | 377.9  | 338.3  | 302.6  |
| 75°   | 206.1  | 210.1  | 226.0  | 244.5  | 266.9  | 282.8  | 293.3  | 301.3  | 296.0  | 264.3  | 241.8  |
| 77.5° | 155.9  | 161.2  | 173.1  | 187.6  | 207.5  | 216.7  | 223.3  | 231.2  | 224.6  | 199.5  | 183.7  |
| 80°   | 113.6  | 115.0  | 121.6  | 134.8  | 148.0  | 149.3  | 155.9  | 166.5  | 162.5  | 145.4  | 133.5  |
| 82.5° | 72.7   | 76.6   | 79.3   | 87.2   | 96.5   | 99.1   | 103.1  | 105.7  | 104.4  | 93.8   | 89.9   |
| 85°   | 42.3   | 42.3   | 44.9   | 50.2   | 52.9   | 56.8   | 58.1   | 59.5   | 62.1   | 55.5   | 51.5   |
| 87.5° | 18.5   | 19.8   | 19.8   | 21.1   | 23.8   | 23.8   | 25.1   | 26.4   | 27.7   | 26.4   | 22.5   |
| 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°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1666.2 | 1690.0 | 1700.6 | 1703.2 | 1717.8 | 1708.5 | 1712.5 | 1711.2 | 1721.7 | 1723.1 | 1723.1 |
| 5°    | 1787.8 | 1815.6 | 1824.8 | 1838.0 | 1857.8 | 1863.1 | 1859.2 | 1867.1 | 1881.6 | 1871.1 | 1886.9 |
| 7.5°  | 1916.0 | 1946.4 | 1967.5 | 1996.6 | 2003.2 | 2020.4 | 2030.9 | 2040.2 | 2042.8 | 2044.2 | 2046.8 |
| 10°   | 2034.9 | 2073.2 | 2102.3 | 2151.2 | 2161.8 | 2171.0 | 2217.3 | 2198.8 | 2222.5 | 2214.6 | 2217.3 |
| 12.5° | 2131.4 | 2206.7 | 2230.5 | 2312.4 | 2320.3 | 2352.0 | 2349.4 | 2378.5 | 2383.8 | 2394.3 | 2383.8 |
| 15°   | 2258.2 | 2345.4 | 2383.8 | 2430.0 | 2456.4 | 2493.4 | 2500.0 | 2539.7 | 2555.5 | 2570.1 | 2555.5 |
| 17.5° | 2374.5 | 2420.8 | 2518.5 | 2555.5 | 2572.7 | 2592.5 | 2642.7 | 2657.3 | 2681.1 | 2671.8 | 2698.2 |
| 20°   | 2432.6 | 2498.7 | 2601.8 | 2665.2 | 2691.6 | 2710.1 | 2752.4 | 2774.9 | 2784.1 | 2784.1 | 2786.8 |
| 22.5° | 2484.2 | 2579.3 | 2656.0 | 2728.6 | 2752.4 | 2765.6 | 2790.7 | 2807.9 | 2811.9 | 2814.5 | 2817.2 |
| 25°   | 2530.4 | 2616.3 | 2678.4 | 2719.4 | 2728.6 | 2728.6 | 2743.2 | 2732.6 | 2715.4 | 2728.6 | 2736.6 |
| 27.5° | 2530.4 | 2591.2 | 2619.0 | 2633.5 | 2633.5 | 2597.8 | 2576.7 | 2533.1 | 2496.1 | 2485.5 | 2509.3 |
| 30°   | 2488.1 | 2515.9 | 2477.6 | 2441.9 | 2414.1 | 2390.4 | 2307.1 | 2241.0 | 2227.8 | 2218.6 | 2254.3 |
| 32.5° | 2390.4 | 2354.7 | 2279.4 | 2176.3 | 2135.3 | 2081.2 | 2016.4 | 1966.2 | 1935.8 | 1925.2 | 1917.3 |
| 35°   | 2217.3 | 2124.8 | 2027.0 | 1888.2 | 1859.2 | 1790.5 | 1701.9 | 1664.9 | 1614.7 | 1613.4 | 1630.6 |
| 37.5° | 2028.3 | 1885.6 | 1779.9 | 1647.8 | 1606.8 | 1534.1 | 1450.9 | 1412.5 | 1378.2 | 1351.8 | 1383.5 |
| 40°   | 1807.6 | 1683.4 | 1522.2 | 1413.9 | 1355.7 | 1317.4 | 1247.4 | 1205.1 | 1189.2 | 1176.0 | 1195.8 |
| 42.5° | 1601.5 | 1465.4 | 1339.9 | 1228.9 | 1181.3 | 1137.7 | 1091.5 | 1050.5 | 1038.6 | 1037.3 | 1051.8 |
| 45°   | 1396.7 | 1263.2 | 1147.0 | 1051.8 | 1021.4 | 995.0  | 950.1  | 938.2  | 918.4  | 905.1  | 911.7  |
| 47.5° | 1232.8 | 1095.4 | 999.0  | 926.3  | 899.9  | 877.4  | 848.3  | 828.5  | 811.3  | 806.0  | 814.0  |
| 50°   | 1071.6 | 979.1  | 880.0  | 819.3  | 799.4  | 778.3  | 755.8  | 737.3  | 729.4  | 724.1  | 729.4  |
| 52.5° | 942.1  | 843.0  | 775.6  | 726.8  | 706.9  | 691.1  | 675.2  | 667.3  | 656.7  | 659.4  | 664.7  |
| 55°   | 825.9  | 738.6  | 681.8  | 646.2  | 634.3  | 627.7  | 607.8  | 598.6  | 594.6  | 592.0  | 594.6  |
| 57.5° | 716.2  | 652.8  | 610.5  | 580.1  | 564.2  | 560.3  | 544.4  | 544.4  | 540.4  | 536.5  | 537.8  |
| 60°   | 629.0  | 574.8  | 533.8  | 510.0  | 507.4  | 500.8  | 490.2  | 488.9  | 479.7  | 483.6  | 484.9  |
| 62.5° | 540.4  | 496.8  | 469.1  | 454.6  | 445.3  | 442.7  | 436.1  | 434.7  | 430.8  | 432.1  | 429.4  |
| 65°   | 470.4  | 434.7  | 407.0  | 395.1  | 391.1  | 389.8  | 384.5  | 380.6  | 377.9  | 380.6  | 377.9  |
| 67.5° | 400.4  | 376.6  | 355.4  | 343.6  | 338.3  | 336.9  | 333.0  | 330.3  | 331.7  | 327.7  | 330.3  |
| 70°   | 334.3  | 310.5  | 297.3  | 290.7  | 288.1  | 284.1  | 284.1  | 284.1  | 284.1  | 281.5  | 280.1  |
| 72.5° | 281.5  | 257.7  | 248.4  | 244.5  | 241.8  | 240.5  | 236.5  | 237.8  | 236.5  | 235.2  | 240.5  |
| 75°   | 223.3  | 208.8  | 199.5  | 195.6  | 198.2  | 194.2  | 190.3  | 192.9  | 189.0  | 190.3  | 195.6  |
| 77.5° | 169.1  | 162.5  | 157.2  | 154.6  | 152.0  | 149.3  | 149.3  | 146.7  | 146.7  | 146.7  | 146.7  |
| 80°   | 122.9  | 121.6  | 112.3  | 111.0  | 111.0  | 108.4  | 108.4  | 108.4  | 108.4  | 107.0  | 108.4  |
| 82.5° | 81.9   | 80.6   | 78.0   | 76.6   | 74.0   | 75.3   | 75.3   | 72.7   | 72.7   | 71.4   | 72.7   |
| 85°   | 47.6   | 47.6   | 44.9   | 43.6   | 42.3   | 43.6   | 41.0   | 39.6   | 41.0   | 39.6   | 41.0   |
| 87.5° | 22.5   | 19.8   | 21.1   | 19.8   | 17.2   | 18.5   | 15.9   | 17.2   | 15.9   | 14.5   | 17.2   |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1720.4 | 1716.5 | 1711.2 | 1711.2 | 1704.6 | 1704.6 | 1694.0 | 1675.5 | 1659.6 | 1654.4 | 1657.0 |
| 5°    | 1867.1 | 1868.4 | 1860.5 | 1853.9 | 1842.0 | 1832.7 | 1815.6 | 1782.5 | 1772.0 | 1750.8 | 1736.3 |
| 7.5°  | 2034.9 | 2029.6 | 2015.1 | 2004.5 | 2001.9 | 1980.7 | 1943.7 | 1904.1 | 1872.4 | 1851.2 | 1820.9 |
| 10°   | 2223.9 | 2202.7 | 2181.6 | 2175.0 | 2159.1 | 2123.4 | 2081.2 | 2037.6 | 1994.0 | 1947.7 | 1896.2 |
| 12.5° | 2382.4 | 2341.5 | 2340.1 | 2324.3 | 2293.9 | 2274.1 | 2223.9 | 2161.8 | 2086.4 | 2034.9 | 1976.8 |
| 15°   | 2552.9 | 2514.6 | 2482.9 | 2453.8 | 2439.3 | 2381.1 | 2338.8 | 2260.9 | 2171.0 | 2115.5 | 2075.9 |
| 17.5° | 2674.5 | 2657.3 | 2603.1 | 2589.9 | 2570.1 | 2502.7 | 2435.3 | 2358.6 | 2280.7 | 2202.7 | 2095.7 |
| 20°   | 2772.2 | 2761.7 | 2726.0 | 2707.5 | 2675.8 | 2622.9 | 2541.0 | 2452.5 | 2362.6 | 2251.6 | 2151.2 |
| 22.5° | 2814.5 | 2801.3 | 2772.2 | 2756.4 | 2736.6 | 2691.6 | 2621.6 | 2521.2 | 2403.6 | 2304.5 | 2197.4 |
| 25°   | 2731.3 | 2755.1 | 2747.1 | 2740.5 | 2732.6 | 2706.2 | 2653.3 | 2564.8 | 2449.8 | 2337.5 | 2204.0 |
| 27.5° | 2543.6 | 2584.6 | 2624.2 | 2629.5 | 2642.7 | 2653.3 | 2632.2 | 2568.7 | 2472.3 | 2353.4 | 2206.7 |
| 30°   | 2291.3 | 2309.8 | 2390.4 | 2414.1 | 2432.6 | 2500.0 | 2539.7 | 2523.8 | 2449.8 | 2342.8 | 2208.0 |
| 32.5° | 1967.5 | 2016.4 | 2098.3 | 2155.2 | 2205.4 | 2280.7 | 2383.8 | 2424.7 | 2398.3 | 2311.1 | 2177.6 |
| 35°   | 1661.0 | 1719.1 | 1814.2 | 1886.9 | 1937.1 | 2044.2 | 2165.7 | 2254.3 | 2287.3 | 2243.7 | 2124.8 |
| 37.5° | 1409.9 | 1479.9 | 1564.5 | 1592.3 | 1650.4 | 1782.5 | 1950.3 | 2073.2 | 2153.8 | 2157.8 | 2065.3 |
| 40°   | 1220.9 | 1256.6 | 1324.0 | 1366.3 | 1423.1 | 1534.1 | 1698.0 | 1860.5 | 1982.1 | 2023.0 | 1974.1 |
| 42.5° | 1061.1 | 1088.8 | 1139.0 | 1190.6 | 1242.1 | 1326.7 | 1477.3 | 1629.3 | 1793.1 | 1875.0 | 1873.7 |
| 45°   | 934.2  | 963.3  | 997.6  | 1039.9 | 1075.6 | 1166.8 | 1285.7 | 1441.6 | 1583.0 | 1709.9 | 1741.6 |
| 47.5° | 823.2  | 848.3  | 890.6  | 909.1  | 932.9  | 1018.8 | 1121.8 | 1267.2 | 1413.9 | 1559.2 | 1596.2 |
| 50°   | 741.3  | 762.4  | 791.5  | 803.4  | 829.8  | 893.2  | 977.8  | 1095.4 | 1257.9 | 1391.4 | 1460.1 |
| 52.5° | 667.3  | 683.1  | 705.6  | 714.9  | 733.4  | 780.9  | 857.6  | 950.1  | 1084.8 | 1222.3 | 1318.7 |
| 55°   | 603.9  | 614.4  | 630.3  | 640.9  | 654.1  | 696.4  | 753.2  | 836.4  | 952.7  | 1071.6 | 1165.4 |
| 57.5° | 544.4  | 552.3  | 568.2  | 573.5  | 584.0  | 617.1  | 656.7  | 726.8  | 833.8  | 939.5  | 1030.7 |
| 60°   | 488.9  | 494.2  | 503.4  | 515.3  | 523.3  | 545.7  | 582.7  | 640.9  | 726.8  | 823.2  | 897.2  |
| 62.5° | 436.1  | 444.0  | 446.6  | 451.9  | 458.5  | 479.7  | 508.7  | 551.0  | 626.3  | 705.6  | 783.6  |
| 65°   | 381.9  | 388.5  | 393.8  | 395.1  | 401.7  | 417.6  | 444.0  | 481.0  | 529.9  | 598.6  | 671.3  |
| 67.5° | 331.7  | 335.6  | 338.3  | 343.6  | 350.2  | 358.1  | 379.2  | 407.0  | 451.9  | 507.4  | 565.5  |
| 70°   | 285.4  | 285.4  | 289.4  | 290.7  | 298.6  | 307.9  | 317.1  | 343.6  | 383.2  | 428.1  | 467.8  |
| 72.5° | 235.2  | 241.8  | 240.5  | 247.1  | 245.8  | 252.4  | 264.3  | 281.5  | 310.5  | 346.2  | 384.5  |
| 75°   | 191.6  | 195.6  | 195.6  | 195.6  | 198.2  | 203.5  | 210.1  | 226.0  | 248.4  | 277.5  | 300.0  |
| 77.5° | 149.3  | 152.0  | 152.0  | 152.0  | 153.3  | 158.6  | 165.2  | 175.7  | 191.6  | 208.8  | 222.0  |
| 80°   | 107.0  | 109.7  | 109.7  | 112.3  | 112.3  | 113.6  | 120.2  | 125.5  | 133.5  | 146.7  | 159.9  |
| 82.5° | 72.7   | 74.0   | 76.6   | 76.6   | 75.3   | 78.0   | 79.3   | 84.6   | 92.5   | 95.1   | 104.4  |
| 85°   | 39.6   | 41.0   | 42.3   | 42.3   | 43.6   | 46.2   | 44.9   | 50.2   | 50.2   | 55.5   | 58.1   |
| 87.5° | 15.9   | 18.5   | 18.5   | 17.2   | 18.5   | 18.5   | 18.5   | 21.1   | 22.5   | 23.8   | 22.5   |
| 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°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1645.1 | 1639.8 | 1635.9 | 1635.9 | 1624.0 | 1612.1 | 1605.5 | 1602.8 | 1600.2 | 1589.6 | 1575.1 |
| 5°    | 1712.5 | 1695.3 | 1683.4 | 1671.5 | 1651.7 | 1630.6 | 1609.4 | 1597.5 | 1580.4 | 1556.6 | 1539.4 |
| 7.5°  | 1787.8 | 1746.9 | 1733.6 | 1719.1 | 1679.5 | 1643.8 | 1614.7 | 1589.6 | 1561.9 | 1531.5 | 1501.1 |
| 10°   | 1851.2 | 1807.6 | 1778.6 | 1753.5 | 1701.9 | 1654.4 | 1610.8 | 1573.8 | 1538.1 | 1498.4 | 1461.4 |
| 12.5° | 1912.0 | 1849.9 | 1819.5 | 1782.5 | 1728.4 | 1659.6 | 1602.8 | 1556.6 | 1503.7 | 1462.8 | 1417.8 |
| 15°   | 1996.6 | 1892.2 | 1842.0 | 1818.2 | 1745.5 | 1664.9 | 1596.2 | 1527.5 | 1483.9 | 1421.8 | 1382.2 |
| 17.5° | 2009.8 | 1925.2 | 1892.2 | 1831.4 | 1744.2 | 1653.0 | 1573.8 | 1505.0 | 1439.0 | 1383.5 | 1331.9 |
| 20°   | 2056.1 | 1945.1 | 1892.2 | 1853.9 | 1738.9 | 1646.4 | 1559.2 | 1470.7 | 1407.3 | 1347.8 | 1289.7 |
| 22.5° | 2085.1 | 1959.6 | 1904.1 | 1843.3 | 1733.6 | 1622.6 | 1519.6 | 1442.9 | 1365.0 | 1304.2 | 1257.9 |
| 25°   | 2077.2 | 1951.7 | 1889.6 | 1832.7 | 1699.3 | 1588.3 | 1495.8 | 1398.0 | 1325.3 | 1259.3 | 1198.5 |
| 27.5° | 2073.2 | 1931.8 | 1865.8 | 1802.4 | 1676.8 | 1560.5 | 1444.3 | 1365.0 | 1284.4 | 1207.7 | 1162.8 |
| 30°   | 2062.7 | 1906.7 | 1830.1 | 1761.4 | 1630.6 | 1509.0 | 1409.9 | 1317.4 | 1236.8 | 1166.8 | 1107.3 |
| 32.5° | 2027.0 | 1864.5 | 1790.5 | 1716.5 | 1580.4 | 1458.8 | 1358.4 | 1272.5 | 1191.9 | 1119.2 | 1062.4 |
| 35°   | 1979.4 | 1814.2 | 1733.6 | 1655.7 | 1519.6 | 1396.7 | 1304.2 | 1214.3 | 1139.0 | 1069.0 | 1014.8 |
| 37.5° | 1931.8 | 1756.1 | 1680.8 | 1590.9 | 1465.4 | 1337.2 | 1242.1 | 1161.5 | 1091.5 | 1018.8 | 959.3  |
| 40°   | 1863.1 | 1687.4 | 1604.1 | 1527.5 | 1380.8 | 1260.6 | 1173.4 | 1100.7 | 1032.0 | 963.3  | 913.1  |
| 42.5° | 1769.3 | 1612.1 | 1526.2 | 1441.6 | 1304.2 | 1185.3 | 1100.7 | 1036.0 | 971.2  | 914.4  | 858.9  |
| 45°   | 1674.2 | 1520.9 | 1444.3 | 1368.9 | 1219.6 | 1107.3 | 1029.3 | 969.9  | 915.7  | 853.6  | 808.7  |
| 47.5° | 1559.2 | 1429.7 | 1353.1 | 1279.1 | 1137.7 | 1025.4 | 954.0  | 898.5  | 848.3  | 796.8  | 754.5  |
| 50°   | 1441.6 | 1329.3 | 1259.3 | 1182.6 | 1047.8 | 946.1  | 876.1  | 829.8  | 788.9  | 740.0  | 705.6  |
| 52.5° | 1314.8 | 1217.0 | 1157.5 | 1083.5 | 964.6  | 870.8  | 799.4  | 753.2  | 718.8  | 683.1  | 652.8  |
| 55°   | 1180.0 | 1108.6 | 1045.2 | 985.7  | 873.4  | 788.9  | 725.4  | 684.5  | 660.7  | 627.7  | 601.2  |
| 57.5° | 1058.4 | 989.7  | 951.4  | 884.0  | 786.2  | 703.0  | 652.8  | 618.4  | 590.7  | 570.8  | 549.7  |
| 60°   | 931.6  | 876.1  | 833.8  | 784.9  | 699.0  | 629.0  | 576.1  | 556.3  | 527.2  | 512.7  | 503.4  |
| 62.5° | 810.0  | 770.4  | 730.7  | 693.7  | 617.1  | 551.0  | 511.4  | 486.3  | 469.1  | 454.6  | 446.6  |
| 65°   | 695.0  | 658.0  | 630.3  | 597.3  | 533.8  | 481.0  | 444.0  | 424.2  | 407.0  | 403.0  | 393.8  |
| 67.5° | 582.7  | 566.9  | 536.5  | 510.0  | 455.9  | 414.9  | 387.2  | 362.1  | 352.8  | 348.8  | 340.9  |
| 70°   | 487.6  | 469.1  | 445.3  | 422.8  | 381.9  | 346.2  | 321.1  | 311.8  | 298.6  | 297.3  | 288.1  |
| 72.5° | 401.7  | 379.2  | 362.1  | 344.9  | 314.5  | 282.8  | 269.6  | 256.3  | 249.7  | 244.5  | 240.5  |
| 75°   | 318.5  | 302.6  | 290.7  | 276.2  | 249.7  | 228.6  | 210.1  | 204.8  | 200.8  | 199.5  | 196.9  |
| 77.5° | 237.8  | 227.3  | 222.0  | 207.5  | 189.0  | 170.5  | 162.5  | 154.6  | 154.6  | 152.0  | 153.3  |
| 80°   | 169.1  | 162.5  | 155.9  | 148.0  | 132.1  | 124.2  | 117.6  | 112.3  | 109.7  | 108.4  | 109.7  |
| 82.5° | 107.0  | 103.1  | 101.7  | 96.5   | 85.9   | 81.9   | 76.6   | 72.7   | 72.7   | 72.7   | 72.7   |
| 85°   | 59.5   | 59.5   | 59.5   | 51.5   | 47.6   | 43.6   | 41.0   | 39.6   | 39.6   | 39.6   | 41.0   |
| 87.5° | 25.1   | 25.1   | 21.1   | 21.1   | 19.8   | 17.2   | 15.9   | 15.9   | 17.2   | 17.2   | 18.5   |
| 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°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1571.1 | 1565.8 | 1568.5 | 1555.3 | 1543.4 | 1526.2 | 1511.6 | 1509.0 | 1506.4 | 1514.3 | 1509.0 |
| 5°    | 1526.2 | 1519.6 | 1513.0 | 1497.1 | 1473.3 | 1458.8 | 1437.7 | 1436.3 | 1428.4 | 1416.5 | 1419.2 |
| 7.5°  | 1477.3 | 1473.3 | 1464.1 | 1439.0 | 1417.8 | 1392.7 | 1375.5 | 1361.0 | 1354.4 | 1343.8 | 1339.9 |
| 10°   | 1437.7 | 1423.1 | 1415.2 | 1387.4 | 1362.3 | 1335.9 | 1313.4 | 1302.9 | 1291.0 | 1281.7 | 1275.1 |
| 12.5° | 1383.5 | 1379.5 | 1357.0 | 1334.6 | 1313.4 | 1283.1 | 1265.9 | 1235.5 | 1219.6 | 1227.6 | 1224.9 |
| 15°   | 1347.8 | 1329.3 | 1324.0 | 1292.3 | 1256.6 | 1236.8 | 1205.1 | 1185.3 | 1178.7 | 1166.8 | 1152.2 |
| 17.5° | 1300.2 | 1288.3 | 1269.8 | 1240.8 | 1199.8 | 1172.1 | 1149.6 | 1131.1 | 1123.2 | 1107.3 | 1095.4 |
| 20°   | 1255.3 | 1235.5 | 1220.9 | 1194.5 | 1154.9 | 1119.2 | 1091.5 | 1079.6 | 1059.7 | 1046.5 | 1039.9 |
| 22.5° | 1214.3 | 1199.8 | 1178.7 | 1139.0 | 1104.7 | 1070.3 | 1037.3 | 1020.1 | 1001.6 | 993.7  | 983.1  |
| 25°   | 1164.1 | 1140.3 | 1125.8 | 1082.2 | 1045.2 | 1017.5 | 987.1  | 964.6  | 954.0  | 940.8  | 938.2  |
| 27.5° | 1115.2 | 1092.8 | 1075.6 | 1037.3 | 992.4  | 956.7  | 938.2  | 922.3  | 903.8  | 903.8  | 897.2  |
| 30°   | 1066.3 | 1050.5 | 1024.1 | 987.1  | 944.8  | 910.4  | 889.3  | 874.7  | 868.1  | 862.9  | 861.5  |
| 32.5° | 1017.5 | 996.3  | 980.5  | 930.2  | 898.5  | 866.8  | 851.0  | 839.1  | 831.1  | 829.8  | 831.1  |
| 35°   | 967.2  | 943.5  | 927.6  | 882.7  | 851.0  | 821.9  | 815.3  | 804.7  | 800.8  | 799.4  | 806.0  |
| 37.5° | 914.4  | 895.9  | 876.1  | 839.1  | 803.4  | 786.2  | 773.0  | 769.0  | 767.7  | 775.6  | 778.3  |
| 40°   | 865.5  | 849.6  | 831.1  | 791.5  | 765.1  | 746.6  | 740.0  | 736.0  | 741.3  | 749.2  | 753.2  |
| 42.5° | 819.3  | 796.8  | 782.3  | 746.6  | 722.8  | 712.2  | 704.3  | 704.3  | 709.6  | 718.8  | 725.4  |
| 45°   | 770.4  | 753.2  | 738.6  | 706.9  | 685.8  | 673.9  | 672.6  | 673.9  | 680.5  | 687.1  | 695.0  |
| 47.5° | 722.8  | 705.6  | 689.8  | 663.3  | 644.8  | 638.2  | 636.9  | 638.2  | 648.8  | 658.0  | 667.3  |
| 50°   | 679.2  | 660.7  | 646.2  | 621.0  | 606.5  | 598.6  | 599.9  | 606.5  | 614.4  | 627.7  | 639.5  |
| 52.5° | 627.7  | 614.4  | 601.2  | 578.8  | 565.5  | 560.3  | 564.2  | 569.5  | 584.0  | 593.3  | 607.8  |
| 55°   | 577.4  | 565.5  | 555.0  | 537.8  | 527.2  | 523.3  | 525.9  | 533.8  | 545.7  | 561.6  | 578.8  |
| 57.5° | 531.2  | 518.0  | 507.4  | 495.5  | 483.6  | 484.9  | 486.3  | 496.8  | 511.4  | 525.9  | 545.7  |
| 60°   | 479.7  | 471.7  | 462.5  | 447.9  | 442.7  | 442.7  | 446.6  | 458.5  | 471.7  | 495.5  | 512.7  |
| 62.5° | 433.4  | 422.8  | 416.2  | 407.0  | 399.1  | 400.4  | 409.6  | 420.2  | 436.1  | 455.9  | 478.3  |
| 65°   | 385.8  | 373.9  | 368.7  | 360.7  | 358.1  | 359.4  | 366.0  | 381.9  | 399.1  | 416.2  | 437.4  |
| 67.5° | 333.0  | 329.0  | 323.7  | 315.8  | 318.5  | 319.8  | 326.4  | 339.6  | 358.1  | 375.3  | 399.1  |
| 70°   | 288.1  | 280.1  | 278.8  | 272.2  | 272.2  | 276.2  | 289.4  | 298.6  | 315.8  | 334.3  | 359.4  |
| 72.5° | 240.5  | 233.9  | 233.9  | 228.6  | 232.6  | 236.5  | 243.1  | 256.3  | 272.2  | 290.7  | 311.8  |
| 75°   | 191.6  | 189.0  | 191.6  | 189.0  | 189.0  | 195.6  | 203.5  | 214.1  | 231.2  | 251.1  | 268.2  |
| 77.5° | 148.0  | 148.0  | 146.7  | 150.6  | 150.6  | 154.6  | 165.2  | 175.7  | 189.0  | 204.8  | 223.3  |
| 80°   | 108.4  | 108.4  | 108.4  | 112.3  | 116.3  | 116.3  | 122.9  | 136.1  | 148.0  | 158.6  | 175.7  |
| 82.5° | 74.0   | 74.0   | 74.0   | 76.6   | 81.9   | 81.9   | 89.9   | 97.8   | 111.0  | 120.2  | 128.2  |
| 85°   | 44.9   | 44.9   | 43.6   | 46.2   | 47.6   | 51.5   | 58.1   | 63.4   | 70.0   | 78.0   | 85.9   |
| 87.5° | 19.8   | 19.8   | 21.1   | 22.5   | 23.8   | 26.4   | 29.1   | 31.7   | 38.3   | 41.0   | 44.9   |
| 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):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1505.0 | 1503.7 | 1497.1 | 1499.8 | 1491.8 | 1494.5 | 1498.4 | 1499.8 | 1505.0 | 1501.1 | 1499.8 |
| 5°    | 1412.5 | 1409.9 | 1405.9 | 1402.0 | 1400.7 | 1405.9 | 1396.7 | 1399.3 | 1402.0 | 1405.9 | 1411.2 |
| 7.5°  | 1337.2 | 1335.9 | 1331.9 | 1325.3 | 1322.7 | 1320.1 | 1321.4 | 1330.6 | 1329.3 | 1328.0 | 1337.2 |
| 10°   | 1268.5 | 1269.8 | 1261.9 | 1260.6 | 1252.7 | 1251.3 | 1252.7 | 1255.3 | 1259.3 | 1264.6 | 1265.9 |
| 12.5° | 1197.2 | 1214.3 | 1199.8 | 1194.5 | 1182.6 | 1189.2 | 1191.9 | 1180.0 | 1186.6 | 1190.6 | 1210.4 |
| 15°   | 1152.2 | 1144.3 | 1135.1 | 1135.1 | 1129.8 | 1127.1 | 1120.5 | 1129.8 | 1135.1 | 1143.0 | 1140.3 |
| 17.5° | 1090.1 | 1076.9 | 1071.6 | 1066.3 | 1067.7 | 1073.0 | 1058.4 | 1079.6 | 1079.6 | 1083.5 | 1076.9 |
| 20°   | 1036.0 | 1025.4 | 1018.8 | 1016.1 | 1012.2 | 1009.5 | 1008.2 | 1013.5 | 1021.4 | 1024.1 | 1030.7 |
| 22.5° | 979.1  | 979.1  | 968.6  | 964.6  | 962.0  | 958.0  | 964.6  | 960.6  | 965.9  | 971.2  | 981.8  |
| 25°   | 931.6  | 931.6  | 927.6  | 922.3  | 918.4  | 915.7  | 919.7  | 918.4  | 922.3  | 928.9  | 931.6  |
| 27.5° | 893.2  | 889.3  | 888.0  | 886.6  | 885.3  | 886.6  | 885.3  | 889.3  | 893.2  | 894.6  | 891.9  |
| 30°   | 860.2  | 856.2  | 857.6  | 857.6  | 858.9  | 857.6  | 856.2  | 860.2  | 861.5  | 858.9  | 860.2  |
| 32.5° | 829.8  | 829.8  | 832.5  | 833.8  | 833.8  | 835.1  | 836.4  | 833.8  | 835.1  | 831.1  | 832.5  |
| 35°   | 804.7  | 807.4  | 810.0  | 811.3  | 812.6  | 811.3  | 814.0  | 812.6  | 810.0  | 807.4  | 806.0  |
| 37.5° | 779.6  | 782.3  | 787.5  | 788.9  | 792.8  | 794.1  | 791.5  | 791.5  | 790.2  | 784.9  | 782.3  |
| 40°   | 753.2  | 755.8  | 762.4  | 766.4  | 769.0  | 773.0  | 770.4  | 770.4  | 765.1  | 759.8  | 755.8  |
| 42.5° | 728.1  | 733.4  | 740.0  | 743.9  | 749.2  | 749.2  | 749.2  | 746.6  | 740.0  | 734.7  | 730.7  |
| 45°   | 703.0  | 704.3  | 713.5  | 720.1  | 725.4  | 725.4  | 725.4  | 721.5  | 717.5  | 706.9  | 701.6  |
| 47.5° | 675.2  | 679.2  | 689.8  | 696.4  | 701.6  | 703.0  | 703.0  | 699.0  | 691.1  | 681.8  | 675.2  |
| 50°   | 644.8  | 651.4  | 663.3  | 672.6  | 679.2  | 681.8  | 677.9  | 675.2  | 666.0  | 655.4  | 647.5  |
| 52.5° | 615.8  | 623.7  | 638.2  | 646.2  | 655.4  | 656.7  | 655.4  | 651.4  | 640.9  | 626.3  | 619.7  |
| 55°   | 586.7  | 593.3  | 609.2  | 622.4  | 630.3  | 632.9  | 630.3  | 623.7  | 610.5  | 595.9  | 589.3  |
| 57.5° | 555.0  | 564.2  | 581.4  | 594.6  | 603.9  | 605.2  | 602.5  | 595.9  | 585.4  | 566.9  | 557.6  |
| 60°   | 521.9  | 533.8  | 551.0  | 564.2  | 576.1  | 577.4  | 574.8  | 565.5  | 552.3  | 533.8  | 525.9  |
| 62.5° | 488.9  | 498.2  | 518.0  | 532.5  | 541.8  | 548.4  | 543.1  | 533.8  | 520.6  | 502.1  | 490.2  |
| 65°   | 450.6  | 463.8  | 481.0  | 494.2  | 504.8  | 506.1  | 503.4  | 495.5  | 481.0  | 461.2  | 451.9  |
| 67.5° | 413.6  | 422.8  | 440.0  | 457.2  | 461.2  | 465.1  | 461.2  | 453.2  | 441.3  | 424.2  | 410.9  |
| 70°   | 368.7  | 376.6  | 397.7  | 409.6  | 414.9  | 418.9  | 416.2  | 408.3  | 397.7  | 381.9  | 371.3  |
| 72.5° | 323.7  | 330.3  | 350.2  | 359.4  | 370.0  | 368.7  | 367.3  | 362.1  | 347.5  | 336.9  | 330.3  |
| 75°   | 276.2  | 284.1  | 297.3  | 309.2  | 313.2  | 313.2  | 313.2  | 309.2  | 300.0  | 282.8  | 276.2  |
| 77.5° | 232.6  | 236.5  | 247.1  | 253.7  | 257.7  | 259.0  | 257.7  | 251.1  | 245.8  | 233.9  | 229.9  |
| 80°   | 178.4  | 189.0  | 196.9  | 198.2  | 203.5  | 203.5  | 203.5  | 200.8  | 195.6  | 183.7  | 182.3  |
| 82.5° | 134.8  | 137.4  | 145.4  | 149.3  | 152.0  | 150.6  | 150.6  | 145.4  | 144.0  | 137.4  | 134.8  |
| 85°   | 91.2   | 95.1   | 93.8   | 99.1   | 100.4  | 97.8   | 97.8   | 100.4  | 93.8   | 95.1   | 91.2   |
| 87.5° | 50.2   | 50.2   | 52.9   | 51.5   | 56.8   | 56.8   | 54.2   | 55.5   | 52.9   | 51.5   | 50.2   |
| 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: P1000286

CATALOG NUMBER: SA4XXDP-B1020DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1499.8 | 1507.7 | 1499.8 | 1505.0 | 1507.7 | 1514.3 | 1516.9 | 1528.8 | 1532.8 | 1542.0 | 1542.0 |
| 5°    | 1409.9 | 1413.9 | 1415.2 | 1420.5 | 1425.8 | 1439.0 | 1448.2 | 1465.4 | 1485.2 | 1487.9 | 1499.8 |
| 7.5°  | 1337.2 | 1343.8 | 1354.4 | 1350.4 | 1359.7 | 1379.5 | 1391.4 | 1412.5 | 1432.4 | 1442.9 | 1457.5 |
| 10°   | 1272.5 | 1280.4 | 1284.4 | 1288.3 | 1305.5 | 1322.7 | 1341.2 | 1355.7 | 1382.2 | 1398.0 | 1409.9 |
| 12.5° | 1219.6 | 1213.0 | 1220.9 | 1235.5 | 1255.3 | 1265.9 | 1291.0 | 1313.4 | 1333.3 | 1350.4 | 1361.0 |
| 15°   | 1150.9 | 1156.2 | 1164.1 | 1189.2 | 1194.5 | 1220.9 | 1230.2 | 1255.3 | 1292.3 | 1308.2 | 1321.4 |
| 17.5° | 1084.8 | 1102.0 | 1117.9 | 1127.1 | 1143.0 | 1164.1 | 1190.6 | 1218.3 | 1242.1 | 1260.6 | 1276.4 |
| 20°   | 1032.0 | 1049.2 | 1058.4 | 1065.0 | 1080.9 | 1110.0 | 1135.1 | 1169.4 | 1199.8 | 1214.3 | 1235.5 |
| 22.5° | 989.7  | 989.7  | 1002.9 | 1022.7 | 1032.0 | 1059.7 | 1080.9 | 1117.9 | 1150.9 | 1169.4 | 1189.2 |
| 25°   | 936.9  | 944.8  | 955.4  | 972.5  | 985.7  | 1008.2 | 1038.6 | 1070.3 | 1106.0 | 1121.8 | 1147.0 |
| 27.5° | 893.2  | 902.5  | 917.0  | 921.0  | 934.2  | 954.0  | 985.7  | 1020.1 | 1057.1 | 1074.3 | 1095.4 |
| 30°   | 860.2  | 865.5  | 870.8  | 878.7  | 890.6  | 907.8  | 934.2  | 964.6  | 1009.5 | 1022.7 | 1049.2 |
| 32.5° | 831.1  | 833.8  | 836.4  | 843.0  | 849.6  | 866.8  | 888.0  | 921.0  | 958.0  | 977.8  | 1001.6 |
| 35°   | 804.7  | 802.1  | 803.4  | 807.4  | 814.0  | 820.6  | 843.0  | 870.8  | 905.1  | 928.9  | 947.4  |
| 37.5° | 779.6  | 774.3  | 773.0  | 773.0  | 775.6  | 783.6  | 800.8  | 824.5  | 861.5  | 881.4  | 899.9  |
| 40°   | 751.9  | 746.6  | 743.9  | 742.6  | 741.3  | 746.6  | 759.8  | 783.6  | 812.6  | 831.1  | 852.3  |
| 42.5° | 725.4  | 720.1  | 713.5  | 712.2  | 709.6  | 712.2  | 721.5  | 743.9  | 769.0  | 787.5  | 804.7  |
| 45°   | 699.0  | 689.8  | 681.8  | 676.5  | 677.9  | 673.9  | 680.5  | 697.7  | 726.8  | 738.6  | 755.8  |
| 47.5° | 669.9  | 659.4  | 648.8  | 643.5  | 638.2  | 640.9  | 643.5  | 658.0  | 683.1  | 695.0  | 712.2  |
| 50°   | 642.2  | 627.7  | 615.8  | 609.2  | 605.2  | 602.5  | 605.2  | 619.7  | 638.2  | 648.8  | 663.3  |
| 52.5° | 610.5  | 595.9  | 584.0  | 573.5  | 568.2  | 564.2  | 565.5  | 578.8  | 595.9  | 606.5  | 621.0  |
| 55°   | 581.4  | 562.9  | 547.0  | 533.8  | 529.9  | 528.5  | 527.2  | 536.5  | 551.0  | 561.6  | 573.5  |
| 57.5° | 548.4  | 529.9  | 512.7  | 496.8  | 488.9  | 487.6  | 487.6  | 490.2  | 508.7  | 516.7  | 523.3  |
| 60°   | 515.3  | 495.5  | 477.0  | 462.5  | 450.6  | 446.6  | 445.3  | 450.6  | 459.8  | 467.8  | 477.0  |
| 62.5° | 478.3  | 458.5  | 436.1  | 422.8  | 410.9  | 400.4  | 404.3  | 405.7  | 418.9  | 422.8  | 430.8  |
| 65°   | 442.7  | 420.2  | 401.7  | 380.6  | 367.3  | 360.7  | 358.1  | 360.7  | 371.3  | 372.6  | 377.9  |
| 67.5° | 401.7  | 380.6  | 358.1  | 343.6  | 331.7  | 319.8  | 317.1  | 317.1  | 322.4  | 326.4  | 333.0  |
| 70°   | 362.1  | 340.9  | 315.8  | 300.0  | 288.1  | 277.5  | 273.5  | 272.2  | 276.2  | 278.8  | 285.4  |
| 72.5° | 315.8  | 294.7  | 276.2  | 259.0  | 244.5  | 236.5  | 232.6  | 229.9  | 233.9  | 236.5  | 237.8  |
| 75°   | 266.9  | 249.7  | 231.2  | 214.1  | 204.8  | 196.9  | 191.6  | 187.6  | 190.3  | 190.3  | 190.3  |
| 77.5° | 220.7  | 203.5  | 189.0  | 177.1  | 165.2  | 155.9  | 152.0  | 148.0  | 149.3  | 149.3  | 152.0  |
| 80°   | 171.8  | 159.9  | 148.0  | 137.4  | 126.9  | 118.9  | 116.3  | 112.3  | 109.7  | 108.4  | 108.4  |
| 82.5° | 126.9  | 117.6  | 107.0  | 97.8   | 92.5   | 84.6   | 81.9   | 76.6   | 76.6   | 75.3   | 75.3   |
| 85°   | 84.6   | 79.3   | 68.7   | 62.1   | 58.1   | 54.2   | 51.5   | 48.9   | 44.9   | 44.9   | 43.6   |
| 87.5° | 44.9   | 42.3   | 39.6   | 31.7   | 31.7   | 27.7   | 26.4   | 25.1   | 21.1   | 22.5   | 22.5   |
| 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: P1000286

CATALOG NUMBER: SA4XXDP-B1020DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 2.5°  | 1551.3 | 1564.5 | 1576.4 | 1594.9 |
| 5°    | 1516.9 | 1535.4 | 1560.5 | 1588.3 |
| 7.5°  | 1477.3 | 1506.4 | 1539.4 | 1577.7 |
| 10°   | 1440.3 | 1473.3 | 1515.6 | 1561.9 |
| 12.5° | 1402.0 | 1441.6 | 1487.9 | 1538.1 |
| 15°   | 1358.4 | 1398.0 | 1449.5 | 1516.9 |
| 17.5° | 1318.7 | 1366.3 | 1421.8 | 1493.2 |
| 20°   | 1272.5 | 1317.4 | 1378.2 | 1460.1 |
| 22.5° | 1231.5 | 1283.1 | 1350.4 | 1421.8 |
| 25°   | 1186.6 | 1231.5 | 1298.9 | 1384.8 |
| 27.5° | 1141.7 | 1197.2 | 1261.9 | 1345.2 |
| 30°   | 1098.1 | 1144.3 | 1214.3 | 1301.6 |
| 32.5° | 1050.5 | 1106.0 | 1170.7 | 1252.7 |
| 35°   | 999.0  | 1051.8 | 1112.6 | 1201.1 |
| 37.5° | 952.7  | 1004.2 | 1066.3 | 1144.3 |
| 40°   | 901.2  | 955.4  | 1012.2 | 1090.1 |
| 42.5° | 851.0  | 899.9  | 956.7  | 1028.0 |
| 45°   | 802.1  | 844.4  | 895.9  | 958.0  |
| 47.5° | 751.9  | 787.5  | 835.1  | 890.6  |
| 50°   | 697.7  | 736.0  | 771.7  | 817.9  |
| 52.5° | 647.5  | 680.5  | 709.6  | 747.9  |
| 55°   | 598.6  | 621.0  | 644.8  | 673.9  |
| 57.5° | 547.0  | 564.2  | 581.4  | 611.8  |
| 60°   | 495.5  | 511.4  | 520.6  | 540.4  |
| 62.5° | 445.3  | 451.9  | 463.8  | 475.7  |
| 65°   | 389.8  | 399.1  | 405.7  | 420.2  |
| 67.5° | 339.6  | 343.6  | 350.2  | 359.4  |
| 70°   | 286.7  | 296.0  | 298.6  | 305.2  |
| 72.5° | 241.8  | 245.8  | 248.4  | 249.7  |
| 75°   | 191.6  | 195.6  | 198.2  | 206.1  |
| 77.5° | 150.6  | 149.3  | 154.6  | 155.9  |
| 80°   | 111.0  | 107.0  | 108.4  | 113.6  |
| 82.5° | 72.7   | 74.0   | 72.7   | 72.7   |
| 85°   | 44.9   | 43.6   | 41.0   | 42.3   |
| 87.5° | 19.8   | 19.8   | 18.5   | 18.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)