

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: P1037286

Luminaire Tested: S123DS-B1165DB50-4F0-XX-W2A-A

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1037286  
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-B1165DB50-4F0-XX-W2A-A  
Description: Define 3 Direct Surface with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

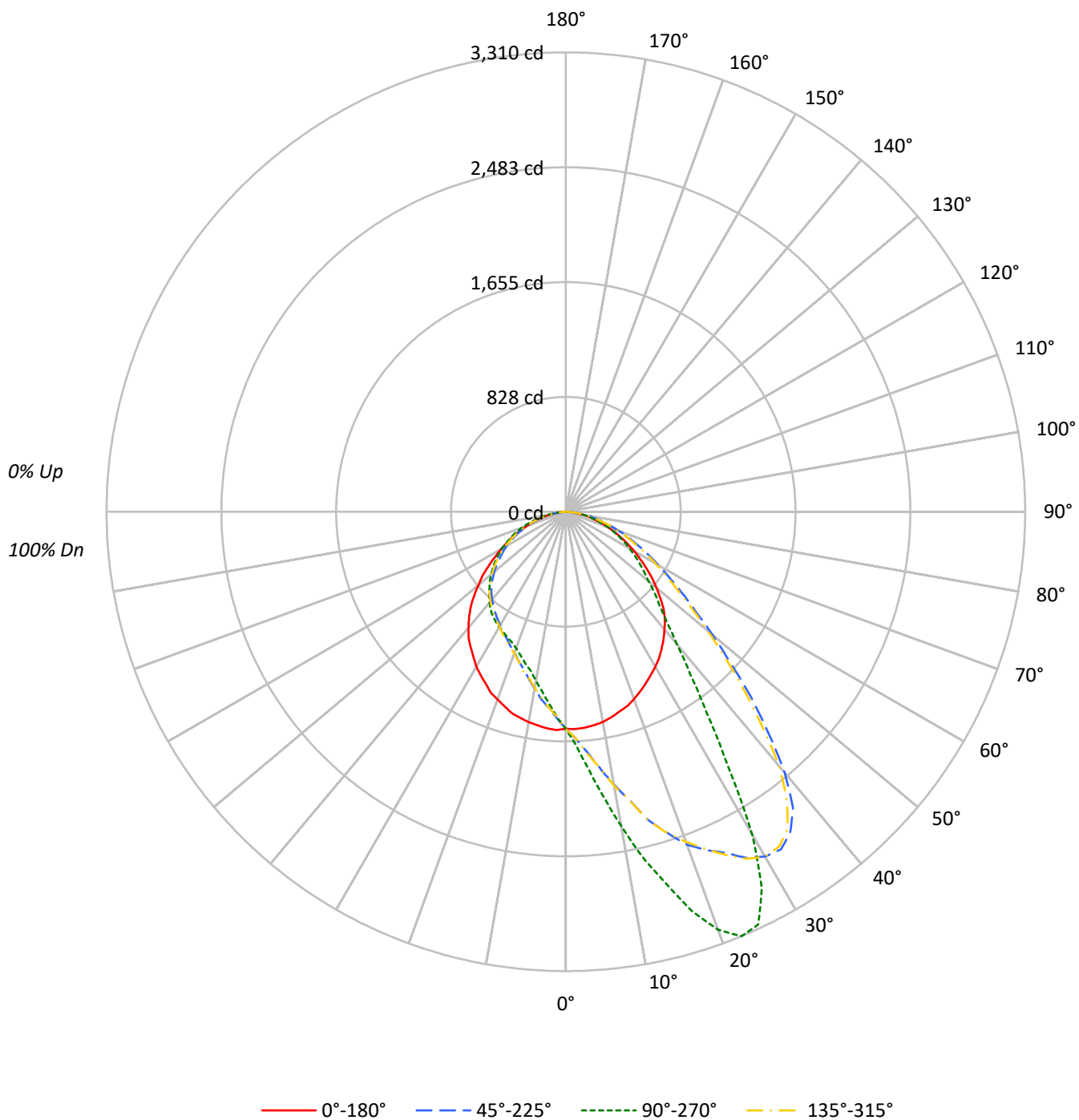
Lumens per Lamp: N/A  
Luminaire Lumens: 4718.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

### Luminous Intensity Polar Plot



TEST NUMBER: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**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   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  |
| 5   | 78  | 66  | 57  | 51  | 76  | 64  | 56  | 50  | 62  | 55  | 50  |  | 60  | 54  | 49  |  | 59  |
| 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  | 39  | 35  |  | 45  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 43  | 36  | 32  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  |  | 39  | 33  | 29  |  | 38  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 16826 | 16826 | 16826 | 16826 |
| 5°  | 16874 | 20066 | 16923 | 14976 |
| 10° | 16805 | 25115 | 16821 | 13526 |
| 15° | 16610 | 30805 | 16744 | 12592 |
| 20° | 16449 | 36697 | 16483 | 11990 |
| 25° | 16191 | 38966 | 16227 | 11855 |
| 30° | 16021 | 33398 | 16021 | 11917 |
| 35° | 15804 | 23228 | 15704 | 12042 |
| 40° | 15538 | 17495 | 15345 | 12004 |
| 45° | 15195 | 14527 | 14757 | 11852 |
| 50° | 14281 | 13013 | 13773 | 11744 |
| 55° | 13275 | 12166 | 12735 | 11598 |
| 60° | 12260 | 11414 | 11608 | 11479 |
| 65° | 11151 | 10725 | 10611 | 11110 |
| 70° | 10011 | 10058 | 9344  | 10584 |
| 75° | 8754  | 9008  | 8189  | 9703  |
| 80° | 7228  | 7885  | 6664  | 8356  |
| 85° | 5607  | 6175  | 4495  | 5607  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 33919 cd/sqm

TEST NUMBER: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.7  | 3.3       |
| 10°-20°   | 493.8  | 10.5      |
| 20°-30°   | 830.9  | 17.6      |
| 30°-40°   | 938.9  | 19.9      |
| 40°-50°   | 841.0  | 17.8      |
| 50°-60°   | 678.9  | 14.4      |
| 60°-70°   | 473.1  | 10.0      |
| 70°-80°   | 248.3  | 5.3       |
| 80°-90°   | 59.5   | 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°    | 1478.4 | 31.3      |
| 0°-40°    | 2417.3 | 51.2      |
| 0°-60°    | 3937.1 | 83.4      |
| 0°-90°    | 4718.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4718.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1563 | 1563 | 1563 | 1563 | 1563 |      |
| 5°  | 1562 | 1857 | 1566 | 1386 | 1562 | 148  |
| 15° | 1490 | 2764 | 1503 | 1130 | 1490 | 421  |
| 25° | 1363 | 3281 | 1366 | 998  | 1363 | 629  |
| 35° | 1203 | 1768 | 1195 | 916  | 1203 | 753  |
| 45° | 998  | 954  | 969  | 779  | 998  | 763  |
| 55° | 707  | 648  | 679  | 618  | 707  | 633  |
| 65° | 438  | 421  | 417  | 436  | 438  | 436  |
| 75° | 210  | 217  | 197  | 233  | 210  | 226  |
| 85° | 45   | 50   | 36   | 45   | 45   | 55   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1567.7 | 1579.9 | 1585.9 | 1595.0 | 1604.1 | 1617.7 | 1622.3 | 1629.9 | 1626.8 | 1632.9 | 1635.9 |
| 5°    | 1561.7 | 1582.9 | 1601.1 | 1623.8 | 1645.0 | 1660.1 | 1675.3 | 1699.5 | 1717.7 | 1720.7 | 1734.4 |
| 7.5°  | 1551.1 | 1581.4 | 1613.2 | 1645.0 | 1685.9 | 1710.1 | 1737.4 | 1770.7 | 1798.0 | 1841.9 | 1858.6 |
| 10°   | 1537.5 | 1579.9 | 1625.3 | 1669.2 | 1725.3 | 1763.1 | 1796.5 | 1852.5 | 1908.6 | 1954.0 | 1996.4 |
| 12.5° | 1516.2 | 1569.3 | 1628.3 | 1693.5 | 1766.2 | 1810.1 | 1855.5 | 1929.8 | 2014.6 | 2084.3 | 2129.7 |
| 15°   | 1490.5 | 1557.1 | 1632.9 | 1702.6 | 1782.8 | 1864.6 | 1913.1 | 1996.4 | 2117.6 | 2182.7 | 2299.4 |
| 17.5° | 1469.3 | 1537.5 | 1613.2 | 1722.3 | 1831.3 | 1913.1 | 1947.9 | 2100.9 | 2184.2 | 2293.3 | 2425.1 |
| 20°   | 1436.0 | 1522.3 | 1619.2 | 1728.3 | 1869.2 | 1919.2 | 1990.4 | 2144.9 | 2247.9 | 2390.2 | 2552.3 |
| 22.5° | 1401.1 | 1493.5 | 1610.2 | 1723.8 | 1881.3 | 1934.3 | 2031.3 | 2153.9 | 2317.5 | 2458.4 | 2637.1 |
| 25°   | 1363.3 | 1463.2 | 1581.4 | 1716.2 | 1870.7 | 1947.9 | 2038.8 | 2190.3 | 2367.5 | 2544.8 | 2709.9 |
| 27.5° | 1325.4 | 1434.5 | 1557.1 | 1692.0 | 1841.9 | 1932.8 | 2023.7 | 2181.2 | 2408.4 | 2600.8 | 2811.3 |
| 30°   | 1289.0 | 1398.1 | 1520.8 | 1658.6 | 1816.2 | 1904.0 | 1990.4 | 2187.3 | 2440.2 | 2656.8 | 2868.9 |
| 32.5° | 1249.7 | 1361.7 | 1490.5 | 1605.6 | 1764.7 | 1858.6 | 1955.5 | 2187.3 | 2459.9 | 2690.2 | 2884.1 |
| 35°   | 1202.7 | 1317.8 | 1428.4 | 1543.5 | 1701.0 | 1805.6 | 1914.6 | 2172.1 | 2478.1 | 2700.8 | 2820.4 |
| 37.5° | 1157.3 | 1258.7 | 1354.2 | 1466.3 | 1631.4 | 1743.5 | 1869.2 | 2153.9 | 2469.0 | 2655.3 | 2688.6 |
| 40°   | 1105.8 | 1207.2 | 1284.5 | 1389.0 | 1563.2 | 1693.5 | 1820.7 | 2129.7 | 2429.6 | 2547.8 | 2450.8 |
| 42.5° | 1055.8 | 1136.0 | 1202.7 | 1304.2 | 1493.5 | 1620.8 | 1758.6 | 2085.8 | 2352.4 | 2376.6 | 2158.5 |
| 45°   | 998.2  | 1055.8 | 1114.8 | 1230.0 | 1417.8 | 1548.1 | 1701.0 | 2022.2 | 2228.2 | 2158.5 | 1882.8 |
| 47.5° | 924.0  | 975.5  | 1040.6 | 1146.7 | 1337.5 | 1472.3 | 1617.7 | 1940.4 | 2047.9 | 1902.5 | 1601.1 |
| 50°   | 852.8  | 896.7  | 957.3  | 1060.3 | 1252.7 | 1384.5 | 1539.0 | 1811.6 | 1864.6 | 1635.9 | 1379.9 |
| 52.5° | 781.6  | 814.9  | 874.0  | 977.0  | 1169.4 | 1296.6 | 1437.5 | 1679.8 | 1649.5 | 1404.2 | 1176.9 |
| 55°   | 707.4  | 736.2  | 792.2  | 893.7  | 1072.4 | 1193.6 | 1328.4 | 1517.8 | 1439.0 | 1205.7 | 1024.0 |
| 57.5° | 634.7  | 665.0  | 722.5  | 807.4  | 975.5  | 1093.6 | 1201.2 | 1349.6 | 1231.5 | 1045.2 | 884.6  |
| 60°   | 569.5  | 595.3  | 639.2  | 722.5  | 875.5  | 970.9  | 1069.4 | 1170.9 | 1072.4 | 892.2  | 769.5  |
| 62.5° | 501.4  | 525.6  | 566.5  | 642.2  | 774.0  | 858.9  | 937.6  | 1020.9 | 911.9  | 780.1  | 671.0  |
| 65°   | 437.8  | 457.4  | 495.3  | 565.0  | 672.5  | 742.2  | 805.8  | 863.4  | 775.5  | 654.4  | 572.6  |
| 67.5° | 380.2  | 396.9  | 428.7  | 490.8  | 581.7  | 631.6  | 683.1  | 731.6  | 657.4  | 560.5  | 490.8  |
| 70°   | 318.1  | 331.7  | 360.5  | 405.9  | 478.7  | 530.2  | 568.0  | 604.4  | 537.7  | 460.5  | 413.5  |
| 72.5° | 263.6  | 277.2  | 295.4  | 342.3  | 392.3  | 424.1  | 465.0  | 484.7  | 446.8  | 383.2  | 336.3  |
| 75°   | 210.5  | 221.2  | 237.8  | 268.1  | 315.1  | 336.3  | 362.0  | 377.2  | 342.3  | 299.9  | 271.1  |
| 77.5° | 165.1  | 169.7  | 181.8  | 203.0  | 234.8  | 259.0  | 278.7  | 287.8  | 263.6  | 236.3  | 212.1  |
| 80°   | 116.6  | 122.7  | 131.8  | 150.0  | 174.2  | 181.8  | 193.9  | 204.5  | 189.3  | 165.1  | 150.0  |
| 82.5° | 77.3   | 84.8   | 89.4   | 96.9   | 112.1  | 121.2  | 124.2  | 133.3  | 119.7  | 110.6  | 104.5  |
| 85°   | 45.4   | 48.5   | 50.0   | 54.5   | 62.1   | 66.6   | 71.2   | 72.7   | 69.7   | 68.2   | 62.1   |
| 87.5° | 22.7   | 22.7   | 22.7   | 25.8   | 27.3   | 30.3   | 31.8   | 31.8   | 31.8   | 30.3   | 28.8   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1646.5 | 1649.5 | 1660.1 | 1667.7 | 1682.9 | 1681.4 | 1681.4 | 1679.8 | 1675.3 | 1682.9 | 1687.4 |
| 5°    | 1761.6 | 1787.4 | 1790.4 | 1823.7 | 1825.3 | 1838.9 | 1848.0 | 1840.4 | 1858.6 | 1857.1 | 1843.4 |
| 7.5°  | 1904.0 | 1938.9 | 1955.5 | 1987.3 | 2023.7 | 2014.6 | 2049.4 | 2055.5 | 2052.5 | 2067.6 | 2078.2 |
| 10°   | 2060.0 | 2120.6 | 2163.0 | 2222.1 | 2237.3 | 2246.3 | 2269.1 | 2288.8 | 2328.1 | 2297.8 | 2317.5 |
| 12.5° | 2238.8 | 2282.7 | 2338.7 | 2432.7 | 2479.6 | 2509.9 | 2520.5 | 2534.1 | 2561.4 | 2544.8 | 2546.3 |
| 15°   | 2388.7 | 2447.8 | 2543.2 | 2659.9 | 2673.5 | 2711.4 | 2702.3 | 2784.1 | 2823.5 | 2764.4 | 2797.7 |
| 17.5° | 2544.8 | 2623.5 | 2737.1 | 2838.6 | 2896.2 | 2921.9 | 2946.2 | 3024.9 | 3021.9 | 3012.8 | 3020.4 |
| 20°   | 2644.7 | 2773.5 | 2914.3 | 3049.2 | 3065.8 | 3085.5 | 3150.6 | 3184.0 | 3177.9 | 3203.7 | 3220.3 |
| 22.5° | 2785.6 | 2921.9 | 3071.9 | 3161.2 | 3199.1 | 3221.8 | 3273.3 | 3294.5 | 3303.6 | 3309.7 | 3299.1 |
| 25°   | 2903.7 | 3049.2 | 3159.7 | 3238.5 | 3261.2 | 3273.3 | 3290.0 | 3296.1 | 3291.5 | 3280.9 | 3290.0 |
| 27.5° | 2984.0 | 3100.7 | 3176.4 | 3212.7 | 3200.6 | 3180.9 | 3149.1 | 3127.9 | 3081.0 | 3058.2 | 3085.5 |
| 30°   | 3017.3 | 3068.8 | 3091.6 | 3031.0 | 2970.4 | 2921.9 | 2861.3 | 2749.2 | 2661.4 | 2687.1 | 2652.3 |
| 32.5° | 2964.3 | 2931.0 | 2821.9 | 2665.9 | 2619.0 | 2540.2 | 2369.0 | 2237.3 | 2241.8 | 2172.1 | 2200.9 |
| 35°   | 2808.3 | 2656.8 | 2450.8 | 2214.5 | 2152.4 | 2110.0 | 1922.2 | 1893.4 | 1832.8 | 1767.7 | 1785.9 |
| 37.5° | 2532.6 | 2311.5 | 2061.6 | 1887.4 | 1795.0 | 1702.6 | 1596.5 | 1532.9 | 1496.6 | 1469.3 | 1490.5 |
| 40°   | 2196.4 | 1926.7 | 1720.7 | 1564.7 | 1486.0 | 1426.9 | 1354.2 | 1290.6 | 1249.7 | 1245.1 | 1252.7 |
| 42.5° | 1866.2 | 1638.9 | 1449.6 | 1301.2 | 1275.4 | 1205.7 | 1158.8 | 1108.8 | 1096.7 | 1077.0 | 1087.6 |
| 45°   | 1579.9 | 1395.1 | 1239.1 | 1117.9 | 1087.6 | 1069.4 | 1011.8 | 980.0  | 966.4  | 954.3  | 972.5  |
| 47.5° | 1372.3 | 1178.5 | 1064.9 | 992.1  | 961.9  | 931.6  | 899.8  | 878.5  | 867.9  | 869.5  | 867.9  |
| 50°   | 1172.4 | 1030.0 | 930.0  | 874.0  | 855.8  | 834.6  | 808.9  | 795.2  | 790.7  | 777.1  | 787.7  |
| 52.5° | 1008.8 | 905.8  | 836.1  | 783.1  | 769.5  | 754.3  | 733.1  | 725.6  | 715.0  | 711.9  | 711.9  |
| 55°   | 877.0  | 796.7  | 740.7  | 705.9  | 689.2  | 677.1  | 665.0  | 655.9  | 648.3  | 648.3  | 648.3  |
| 57.5° | 774.0  | 704.4  | 663.5  | 633.2  | 627.1  | 615.0  | 601.3  | 601.3  | 590.7  | 589.2  | 593.8  |
| 60°   | 686.2  | 624.1  | 592.3  | 566.5  | 557.4  | 554.4  | 540.8  | 540.8  | 537.7  | 530.2  | 536.2  |
| 62.5° | 596.8  | 551.4  | 524.1  | 504.4  | 495.3  | 495.3  | 484.7  | 477.1  | 477.1  | 478.7  | 475.6  |
| 65°   | 515.0  | 481.7  | 457.4  | 442.3  | 437.8  | 431.7  | 430.2  | 424.1  | 419.6  | 421.1  | 419.6  |
| 67.5° | 442.3  | 416.6  | 399.9  | 387.8  | 380.2  | 377.2  | 372.6  | 372.6  | 369.6  | 371.1  | 363.5  |
| 70°   | 377.2  | 351.4  | 337.8  | 325.7  | 322.6  | 322.6  | 316.6  | 318.1  | 315.1  | 319.6  | 316.6  |
| 72.5° | 310.5  | 290.8  | 280.2  | 275.7  | 272.7  | 271.1  | 268.1  | 265.1  | 263.6  | 266.6  | 265.1  |
| 75°   | 251.4  | 234.8  | 227.2  | 224.2  | 221.2  | 221.2  | 219.6  | 218.1  | 216.6  | 216.6  | 216.6  |
| 77.5° | 195.4  | 184.8  | 175.7  | 178.7  | 174.2  | 175.7  | 171.2  | 171.2  | 172.7  | 171.2  | 171.2  |
| 80°   | 143.9  | 136.3  | 136.3  | 133.3  | 127.2  | 130.3  | 130.3  | 125.7  | 124.2  | 127.2  | 122.7  |
| 82.5° | 95.4   | 93.9   | 90.9   | 89.4   | 86.3   | 87.9   | 86.3   | 84.8   | 83.3   | 86.3   | 83.3   |
| 85°   | 56.0   | 56.0   | 54.5   | 51.5   | 54.5   | 53.0   | 51.5   | 51.5   | 50.0   | 50.0   | 50.0   |
| 87.5° | 28.8   | 25.8   | 25.8   | 24.2   | 25.8   | 22.7   | 24.2   | 22.7   | 21.2   | 22.7   | 21.2   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1675.3 | 1679.8 | 1667.7 | 1664.7 | 1664.7 | 1670.7 | 1666.2 | 1625.3 | 1632.9 | 1623.8 | 1620.8 |
| 5°    | 1860.1 | 1851.0 | 1838.9 | 1832.8 | 1825.3 | 1804.0 | 1802.5 | 1755.6 | 1746.5 | 1716.2 | 1702.6 |
| 7.5°  | 2063.1 | 2055.5 | 2019.1 | 2014.6 | 2011.6 | 1991.9 | 1941.9 | 1891.9 | 1855.5 | 1820.7 | 1787.4 |
| 10°   | 2294.8 | 2272.1 | 2255.4 | 2222.1 | 2205.5 | 2178.2 | 2113.1 | 2066.1 | 2004.0 | 1951.0 | 1881.3 |
| 12.5° | 2573.5 | 2547.8 | 2491.7 | 2467.5 | 2446.3 | 2370.6 | 2305.4 | 2252.4 | 2131.2 | 2094.9 | 2008.5 |
| 15°   | 2778.0 | 2723.5 | 2717.4 | 2664.4 | 2661.4 | 2578.1 | 2453.9 | 2396.3 | 2302.4 | 2169.1 | 2079.7 |
| 17.5° | 2999.2 | 2950.7 | 2912.8 | 2849.2 | 2840.1 | 2761.4 | 2670.5 | 2529.6 | 2426.6 | 2299.4 | 2185.8 |
| 20°   | 3161.2 | 3135.5 | 3070.4 | 3044.6 | 2991.6 | 2924.9 | 2831.0 | 2656.8 | 2531.1 | 2403.9 | 2264.5 |
| 22.5° | 3290.0 | 3264.2 | 3212.7 | 3177.9 | 3147.6 | 3061.3 | 2949.2 | 2800.7 | 2628.1 | 2461.4 | 2317.5 |
| 25°   | 3288.5 | 3280.9 | 3259.7 | 3243.0 | 3220.3 | 3156.7 | 3062.8 | 2920.4 | 2728.0 | 2544.8 | 2344.8 |
| 27.5° | 3102.2 | 3123.4 | 3159.7 | 3177.9 | 3173.4 | 3164.3 | 3111.3 | 2991.6 | 2818.9 | 2600.8 | 2376.6 |
| 30°   | 2714.4 | 2791.7 | 2859.8 | 2950.7 | 2978.0 | 3044.6 | 3074.9 | 3006.7 | 2868.9 | 2665.9 | 2417.5 |
| 32.5° | 2250.9 | 2363.0 | 2511.4 | 2561.4 | 2647.8 | 2776.5 | 2920.4 | 2946.2 | 2859.8 | 2703.8 | 2443.3 |
| 35°   | 1846.5 | 1938.9 | 2054.0 | 2132.7 | 2210.0 | 2419.0 | 2600.8 | 2758.3 | 2787.1 | 2684.1 | 2437.2 |
| 37.5° | 1528.4 | 1593.5 | 1695.0 | 1761.6 | 1832.8 | 2011.6 | 2266.0 | 2470.5 | 2614.4 | 2617.5 | 2420.5 |
| 40°   | 1298.1 | 1326.9 | 1414.8 | 1463.2 | 1531.4 | 1685.9 | 1913.1 | 2179.7 | 2390.2 | 2487.2 | 2376.6 |
| 42.5° | 1099.7 | 1137.6 | 1210.3 | 1246.6 | 1290.6 | 1425.4 | 1575.3 | 1828.3 | 2088.8 | 2296.3 | 2294.8 |
| 45°   | 981.5  | 1008.8 | 1042.1 | 1072.4 | 1122.4 | 1202.7 | 1373.9 | 1563.2 | 1813.1 | 2047.9 | 2140.3 |
| 47.5° | 877.0  | 902.8  | 936.1  | 945.2  | 978.5  | 1054.3 | 1158.8 | 1323.9 | 1557.1 | 1790.4 | 1964.6 |
| 50°   | 789.2  | 810.4  | 833.1  | 849.8  | 864.9  | 927.0  | 1005.8 | 1145.1 | 1331.4 | 1557.1 | 1773.8 |
| 52.5° | 721.0  | 736.2  | 755.9  | 764.9  | 778.6  | 824.0  | 884.6  | 987.6  | 1140.6 | 1346.6 | 1557.1 |
| 55°   | 657.4  | 668.0  | 680.1  | 695.3  | 701.3  | 734.6  | 781.6  | 869.5  | 983.1  | 1167.9 | 1367.8 |
| 57.5° | 598.3  | 602.9  | 610.4  | 619.5  | 627.1  | 655.9  | 696.8  | 755.9  | 855.8  | 998.2  | 1187.6 |
| 60°   | 531.7  | 543.8  | 548.3  | 557.4  | 562.0  | 584.7  | 616.5  | 666.5  | 743.7  | 866.4  | 1008.8 |
| 62.5° | 475.6  | 483.2  | 490.8  | 495.3  | 505.9  | 513.5  | 539.2  | 584.7  | 648.3  | 739.2  | 867.9  |
| 65°   | 425.6  | 428.7  | 433.2  | 437.8  | 440.8  | 449.9  | 474.1  | 504.4  | 552.9  | 633.2  | 733.1  |
| 67.5° | 368.1  | 371.1  | 377.2  | 378.7  | 381.7  | 393.8  | 407.5  | 433.2  | 474.1  | 534.7  | 616.5  |
| 70°   | 312.0  | 316.6  | 319.6  | 322.6  | 327.2  | 331.7  | 346.9  | 368.1  | 399.9  | 442.3  | 505.9  |
| 72.5° | 263.6  | 268.1  | 268.1  | 271.1  | 269.6  | 275.7  | 290.8  | 306.0  | 327.2  | 362.0  | 418.1  |
| 75°   | 215.1  | 215.1  | 218.1  | 219.6  | 221.2  | 227.2  | 233.3  | 245.4  | 262.0  | 289.3  | 324.2  |
| 77.5° | 169.7  | 168.1  | 171.2  | 171.2  | 171.2  | 175.7  | 181.8  | 187.8  | 198.4  | 218.1  | 245.4  |
| 80°   | 124.2  | 124.2  | 127.2  | 128.8  | 125.7  | 127.2  | 130.3  | 136.3  | 143.9  | 157.5  | 172.7  |
| 82.5° | 81.8   | 87.9   | 86.3   | 87.9   | 86.3   | 89.4   | 90.9   | 92.4   | 95.4   | 101.5  | 112.1  |
| 85°   | 50.0   | 50.0   | 50.0   | 51.5   | 50.0   | 51.5   | 51.5   | 51.5   | 53.0   | 56.0   | 60.6   |
| 87.5° | 21.2   | 21.2   | 21.2   | 22.7   | 21.2   | 21.2   | 22.7   | 21.2   | 22.7   | 22.7   | 24.2   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1605.6 | 1601.1 | 1601.1 | 1598.0 | 1589.0 | 1572.3 | 1570.8 | 1573.8 | 1564.7 | 1555.6 | 1542.0 |
| 5°    | 1684.4 | 1655.6 | 1646.5 | 1637.4 | 1619.2 | 1589.0 | 1576.8 | 1566.2 | 1549.6 | 1529.9 | 1508.7 |
| 7.5°  | 1751.0 | 1710.1 | 1698.0 | 1681.4 | 1645.0 | 1602.6 | 1575.3 | 1552.6 | 1529.9 | 1502.6 | 1476.9 |
| 10°   | 1834.3 | 1775.3 | 1746.5 | 1722.3 | 1672.3 | 1613.2 | 1572.3 | 1539.0 | 1502.6 | 1469.3 | 1436.0 |
| 12.5° | 1928.3 | 1832.8 | 1823.7 | 1764.7 | 1707.1 | 1619.2 | 1569.3 | 1520.8 | 1472.3 | 1431.4 | 1396.6 |
| 15°   | 2007.0 | 1902.5 | 1864.6 | 1825.3 | 1714.7 | 1605.6 | 1557.1 | 1502.6 | 1446.6 | 1402.6 | 1351.1 |
| 17.5° | 2057.0 | 1970.7 | 1890.4 | 1837.4 | 1722.3 | 1625.3 | 1531.4 | 1469.3 | 1410.2 | 1349.6 | 1307.2 |
| 20°   | 2117.6 | 1991.9 | 1922.2 | 1851.0 | 1737.4 | 1610.2 | 1516.2 | 1439.0 | 1366.3 | 1311.8 | 1260.3 |
| 22.5° | 2178.2 | 2008.5 | 1951.0 | 1873.7 | 1740.4 | 1595.0 | 1489.0 | 1411.7 | 1328.4 | 1273.9 | 1217.8 |
| 25°   | 2172.1 | 2032.8 | 1937.3 | 1872.2 | 1710.1 | 1581.4 | 1457.2 | 1366.3 | 1289.0 | 1219.4 | 1163.3 |
| 27.5° | 2176.7 | 2005.5 | 1908.6 | 1832.8 | 1688.9 | 1561.7 | 1423.8 | 1328.4 | 1248.1 | 1175.4 | 1116.4 |
| 30°   | 2178.2 | 1964.6 | 1879.8 | 1788.9 | 1649.5 | 1514.7 | 1386.0 | 1289.0 | 1204.2 | 1125.4 | 1072.4 |
| 32.5° | 2173.6 | 1931.3 | 1825.3 | 1743.5 | 1587.4 | 1469.3 | 1342.1 | 1239.1 | 1152.7 | 1080.0 | 1030.0 |
| 35°   | 2163.0 | 1891.9 | 1769.2 | 1666.2 | 1523.8 | 1404.2 | 1301.2 | 1195.1 | 1102.7 | 1036.1 | 978.5  |
| 37.5° | 2134.3 | 1849.5 | 1710.1 | 1608.6 | 1449.6 | 1328.4 | 1237.5 | 1149.7 | 1060.3 | 981.5  | 933.1  |
| 40°   | 2113.1 | 1791.9 | 1651.1 | 1540.5 | 1369.3 | 1251.2 | 1175.4 | 1092.1 | 1004.3 | 933.1  | 886.1  |
| 42.5° | 2064.6 | 1737.4 | 1590.5 | 1458.7 | 1290.6 | 1169.4 | 1098.2 | 1031.5 | 955.8  | 886.1  | 843.7  |
| 45°   | 1985.8 | 1678.3 | 1516.2 | 1383.0 | 1204.2 | 1089.1 | 1024.0 | 969.4  | 902.8  | 836.1  | 793.7  |
| 47.5° | 1875.2 | 1593.5 | 1437.5 | 1304.2 | 1119.4 | 1002.8 | 937.6  | 896.7  | 843.7  | 787.7  | 751.3  |
| 50°   | 1755.6 | 1501.1 | 1357.2 | 1225.4 | 1037.6 | 924.0  | 860.4  | 822.5  | 787.7  | 736.2  | 701.3  |
| 52.5° | 1599.6 | 1402.6 | 1264.8 | 1139.1 | 949.7  | 840.7  | 784.6  | 757.4  | 721.0  | 684.7  | 654.4  |
| 55°   | 1448.1 | 1275.4 | 1161.8 | 1042.1 | 863.4  | 761.9  | 707.4  | 678.6  | 657.4  | 627.1  | 602.9  |
| 57.5° | 1272.4 | 1157.3 | 1052.7 | 943.7  | 783.1  | 690.7  | 639.2  | 604.4  | 590.7  | 577.1  | 554.4  |
| 60°   | 1110.3 | 1022.4 | 937.6  | 846.7  | 699.8  | 616.5  | 566.5  | 539.2  | 525.6  | 516.5  | 501.4  |
| 62.5° | 961.9  | 893.7  | 821.0  | 748.3  | 615.0  | 539.2  | 501.4  | 474.1  | 462.0  | 460.5  | 446.8  |
| 65°   | 819.5  | 771.0  | 711.9  | 640.7  | 536.2  | 469.6  | 433.2  | 416.6  | 402.9  | 402.9  | 392.3  |
| 67.5° | 677.1  | 643.8  | 596.8  | 546.8  | 465.0  | 402.9  | 369.6  | 354.4  | 346.9  | 346.9  | 339.3  |
| 70°   | 563.5  | 540.8  | 498.3  | 454.4  | 383.2  | 336.3  | 310.5  | 296.9  | 292.3  | 293.9  | 287.8  |
| 72.5° | 457.4  | 433.2  | 398.4  | 366.6  | 313.5  | 278.7  | 260.5  | 245.4  | 237.8  | 239.3  | 237.8  |
| 75°   | 354.4  | 342.3  | 312.0  | 287.8  | 245.4  | 221.2  | 204.5  | 196.9  | 190.9  | 192.4  | 189.3  |
| 77.5° | 266.6  | 248.4  | 231.8  | 215.1  | 189.3  | 169.7  | 156.0  | 148.4  | 143.9  | 143.9  | 143.9  |
| 80°   | 181.8  | 178.7  | 165.1  | 156.0  | 134.8  | 119.7  | 109.1  | 107.5  | 103.0  | 103.0  | 103.0  |
| 82.5° | 118.1  | 110.6  | 103.0  | 96.9   | 84.8   | 75.7   | 71.2   | 68.2   | 66.6   | 65.1   | 68.2   |
| 85°   | 65.1   | 60.6   | 57.6   | 51.5   | 47.0   | 42.4   | 37.9   | 36.4   | 34.8   | 36.4   | 34.8   |
| 87.5° | 25.8   | 21.2   | 21.2   | 19.7   | 18.2   | 16.7   | 16.7   | 13.6   | 13.6   | 12.1   | 12.1   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1539.0 | 1537.5 | 1540.5 | 1531.4 | 1516.2 | 1508.7 | 1487.5 | 1482.9 | 1481.4 | 1482.9 | 1484.4 |
| 5°    | 1496.6 | 1495.0 | 1490.5 | 1475.3 | 1457.2 | 1443.5 | 1417.8 | 1416.3 | 1407.2 | 1398.1 | 1402.6 |
| 7.5°  | 1455.7 | 1449.6 | 1440.5 | 1420.8 | 1396.6 | 1381.4 | 1360.2 | 1345.1 | 1333.0 | 1325.4 | 1319.3 |
| 10°   | 1414.8 | 1405.7 | 1396.6 | 1370.8 | 1340.5 | 1317.8 | 1292.1 | 1279.9 | 1266.3 | 1260.3 | 1254.2 |
| 12.5° | 1361.7 | 1352.7 | 1336.0 | 1305.7 | 1287.5 | 1258.7 | 1233.0 | 1220.9 | 1213.3 | 1201.2 | 1193.6 |
| 15°   | 1319.3 | 1301.2 | 1292.1 | 1260.3 | 1222.4 | 1219.4 | 1172.4 | 1169.4 | 1154.2 | 1154.2 | 1142.1 |
| 17.5° | 1270.9 | 1257.2 | 1240.6 | 1208.8 | 1181.5 | 1154.2 | 1130.0 | 1120.9 | 1107.3 | 1104.2 | 1098.2 |
| 20°   | 1223.9 | 1205.7 | 1199.7 | 1167.9 | 1139.1 | 1105.8 | 1080.0 | 1070.9 | 1064.9 | 1058.8 | 1063.3 |
| 22.5° | 1175.4 | 1160.3 | 1145.1 | 1116.4 | 1095.2 | 1061.8 | 1046.7 | 1037.6 | 1028.5 | 1025.5 | 1027.0 |
| 25°   | 1128.5 | 1114.8 | 1099.7 | 1070.9 | 1048.2 | 1020.9 | 1007.3 | 1002.8 | 998.2  | 998.2  | 996.7  |
| 27.5° | 1083.0 | 1069.4 | 1055.8 | 1030.0 | 1007.3 | 987.6  | 977.0  | 972.5  | 967.9  | 970.9  | 974.0  |
| 30°   | 1036.1 | 1024.0 | 1011.8 | 989.1  | 970.9  | 952.8  | 946.7  | 943.7  | 942.2  | 949.7  | 949.7  |
| 32.5° | 993.7  | 983.1  | 974.0  | 952.8  | 934.6  | 919.4  | 914.9  | 916.4  | 917.9  | 922.5  | 925.5  |
| 35°   | 949.7  | 942.2  | 933.1  | 914.9  | 899.8  | 886.1  | 887.6  | 887.6  | 890.7  | 898.2  | 904.3  |
| 37.5° | 910.4  | 899.8  | 892.2  | 877.0  | 864.9  | 852.8  | 857.3  | 861.9  | 864.9  | 874.0  | 877.0  |
| 40°   | 863.4  | 858.9  | 852.8  | 837.6  | 827.0  | 825.5  | 827.0  | 830.1  | 836.1  | 840.7  | 845.2  |
| 42.5° | 825.5  | 819.5  | 811.9  | 799.8  | 790.7  | 792.2  | 793.7  | 796.7  | 799.8  | 807.4  | 811.9  |
| 45°   | 783.1  | 778.6  | 772.5  | 761.9  | 754.3  | 755.9  | 757.4  | 757.4  | 760.4  | 769.5  | 772.5  |
| 47.5° | 736.2  | 737.7  | 730.1  | 719.5  | 715.0  | 715.0  | 715.0  | 718.0  | 725.6  | 728.6  | 730.1  |
| 50°   | 690.7  | 687.7  | 686.2  | 675.6  | 672.5  | 671.0  | 672.5  | 674.1  | 684.7  | 683.1  | 687.7  |
| 52.5° | 642.2  | 642.2  | 640.7  | 634.7  | 630.1  | 630.1  | 627.1  | 634.7  | 637.7  | 640.7  | 645.3  |
| 55°   | 595.3  | 590.7  | 589.2  | 586.2  | 580.1  | 578.6  | 581.7  | 590.7  | 593.8  | 596.8  | 601.3  |
| 57.5° | 543.8  | 543.8  | 540.8  | 536.2  | 536.2  | 536.2  | 536.2  | 542.3  | 546.8  | 549.8  | 558.9  |
| 60°   | 496.8  | 490.8  | 486.2  | 486.2  | 486.2  | 484.7  | 493.8  | 493.8  | 502.9  | 504.4  | 507.4  |
| 62.5° | 440.8  | 437.8  | 434.7  | 436.2  | 434.7  | 437.8  | 440.8  | 446.8  | 448.4  | 452.9  | 457.4  |
| 65°   | 387.8  | 387.8  | 384.7  | 393.8  | 387.8  | 387.8  | 395.3  | 395.3  | 398.4  | 402.9  | 409.0  |
| 67.5° | 336.3  | 337.8  | 334.8  | 334.8  | 337.8  | 339.3  | 340.8  | 346.9  | 348.4  | 354.4  | 362.0  |
| 70°   | 283.3  | 286.3  | 287.8  | 284.8  | 287.8  | 290.8  | 293.9  | 295.4  | 301.4  | 304.5  | 309.0  |
| 72.5° | 236.3  | 239.3  | 234.8  | 236.3  | 237.8  | 240.8  | 242.4  | 245.4  | 248.4  | 257.5  | 260.5  |
| 75°   | 189.3  | 187.8  | 186.3  | 192.4  | 189.3  | 195.4  | 196.9  | 196.9  | 199.9  | 207.5  | 210.5  |
| 77.5° | 145.4  | 145.4  | 146.9  | 143.9  | 148.4  | 146.9  | 148.4  | 153.0  | 157.5  | 157.5  | 169.7  |
| 80°   | 101.5  | 104.5  | 104.5  | 104.5  | 106.0  | 107.5  | 104.5  | 112.1  | 113.6  | 113.6  | 118.1  |
| 82.5° | 65.1   | 66.6   | 65.1   | 68.2   | 68.2   | 71.2   | 69.7   | 71.2   | 74.2   | 77.3   | 78.8   |
| 85°   | 34.8   | 34.8   | 37.9   | 37.9   | 36.4   | 37.9   | 36.4   | 37.9   | 40.9   | 40.9   | 42.4   |
| 87.5° | 12.1   | 12.1   | 12.1   | 12.1   | 13.6   | 12.1   | 13.6   | 13.6   | 12.1   | 12.1   | 16.7   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1482.9 | 1484.4 | 1478.4 | 1473.8 | 1486.0 | 1478.4 | 1478.4 | 1479.9 | 1476.9 | 1481.4 | 1479.9 |
| 5°    | 1399.6 | 1401.1 | 1390.5 | 1393.6 | 1387.5 | 1386.0 | 1384.5 | 1393.6 | 1392.0 | 1390.5 | 1393.6 |
| 7.5°  | 1317.8 | 1317.8 | 1313.3 | 1310.2 | 1310.2 | 1305.7 | 1311.8 | 1310.2 | 1313.3 | 1313.3 | 1317.8 |
| 10°   | 1249.7 | 1252.7 | 1245.1 | 1237.5 | 1236.0 | 1237.5 | 1237.5 | 1239.1 | 1240.6 | 1251.2 | 1249.7 |
| 12.5° | 1193.6 | 1189.1 | 1187.6 | 1183.0 | 1175.4 | 1172.4 | 1169.4 | 1186.0 | 1181.5 | 1181.5 | 1181.5 |
| 15°   | 1131.5 | 1142.1 | 1140.6 | 1127.0 | 1123.9 | 1130.0 | 1127.0 | 1127.0 | 1142.1 | 1140.6 | 1139.1 |
| 17.5° | 1098.2 | 1095.2 | 1092.1 | 1084.5 | 1086.1 | 1084.5 | 1086.1 | 1086.1 | 1095.2 | 1095.2 | 1095.2 |
| 20°   | 1060.3 | 1054.3 | 1054.3 | 1051.2 | 1051.2 | 1046.7 | 1052.7 | 1054.3 | 1060.3 | 1060.3 | 1061.8 |
| 22.5° | 1027.0 | 1022.4 | 1022.4 | 1020.9 | 1024.0 | 1017.9 | 1024.0 | 1025.5 | 1025.5 | 1030.0 | 1030.0 |
| 25°   | 998.2  | 995.2  | 995.2  | 998.2  | 998.2  | 998.2  | 998.2  | 1004.3 | 999.7  | 1001.2 | 999.7  |
| 27.5° | 972.5  | 974.0  | 975.5  | 977.0  | 975.5  | 977.0  | 978.5  | 981.5  | 983.1  | 981.5  | 978.5  |
| 30°   | 948.2  | 952.8  | 954.3  | 954.3  | 957.3  | 958.8  | 960.3  | 960.3  | 961.9  | 957.3  | 960.3  |
| 32.5° | 930.0  | 930.0  | 933.1  | 934.6  | 937.6  | 939.1  | 939.1  | 942.2  | 940.6  | 936.1  | 937.6  |
| 35°   | 904.3  | 904.3  | 910.4  | 913.4  | 917.9  | 916.4  | 917.9  | 917.9  | 919.4  | 916.4  | 911.9  |
| 37.5° | 878.5  | 881.6  | 881.6  | 887.6  | 889.1  | 890.7  | 889.1  | 892.2  | 890.7  | 887.6  | 886.1  |
| 40°   | 848.3  | 846.7  | 848.3  | 852.8  | 854.3  | 854.3  | 854.3  | 857.3  | 857.3  | 857.3  | 855.8  |
| 42.5° | 810.4  | 814.9  | 813.4  | 818.0  | 816.4  | 816.4  | 819.5  | 822.5  | 824.0  | 819.5  | 821.0  |
| 45°   | 774.0  | 774.0  | 777.1  | 777.1  | 778.6  | 778.6  | 784.6  | 781.6  | 784.6  | 781.6  | 783.1  |
| 47.5° | 734.6  | 736.2  | 736.2  | 737.7  | 740.7  | 743.7  | 740.7  | 742.2  | 742.2  | 743.7  | 740.7  |
| 50°   | 690.7  | 690.7  | 693.7  | 698.3  | 704.4  | 701.3  | 699.8  | 705.9  | 701.3  | 701.3  | 698.3  |
| 52.5° | 645.3  | 649.8  | 651.3  | 655.9  | 660.4  | 661.9  | 663.5  | 660.4  | 661.9  | 657.4  | 658.9  |
| 55°   | 601.3  | 602.9  | 608.9  | 613.5  | 618.0  | 618.0  | 616.5  | 618.0  | 619.5  | 613.5  | 613.5  |
| 57.5° | 557.4  | 562.0  | 568.0  | 568.0  | 574.1  | 574.1  | 572.6  | 572.6  | 574.1  | 569.5  | 568.0  |
| 60°   | 510.5  | 515.0  | 522.6  | 522.6  | 531.7  | 533.2  | 530.2  | 527.1  | 527.1  | 522.6  | 524.1  |
| 62.5° | 460.5  | 465.0  | 469.6  | 477.1  | 483.2  | 480.2  | 486.2  | 480.2  | 481.7  | 472.6  | 472.6  |
| 65°   | 416.6  | 418.1  | 425.6  | 433.2  | 433.2  | 436.2  | 433.2  | 434.7  | 430.2  | 430.2  | 424.1  |
| 67.5° | 365.1  | 365.1  | 372.6  | 380.2  | 387.8  | 387.8  | 387.8  | 383.2  | 383.2  | 378.7  | 378.7  |
| 70°   | 319.6  | 318.1  | 325.7  | 330.2  | 334.8  | 336.3  | 333.2  | 331.7  | 328.7  | 324.2  | 322.6  |
| 72.5° | 263.6  | 266.6  | 274.2  | 277.2  | 284.8  | 283.3  | 290.8  | 281.7  | 281.7  | 274.2  | 272.7  |
| 75°   | 213.6  | 216.6  | 224.2  | 228.7  | 233.3  | 233.3  | 237.8  | 233.3  | 227.2  | 224.2  | 222.7  |
| 77.5° | 169.7  | 168.1  | 174.2  | 181.8  | 183.3  | 181.8  | 184.8  | 183.3  | 177.2  | 177.2  | 174.2  |
| 80°   | 121.2  | 125.7  | 131.8  | 130.3  | 136.3  | 134.8  | 134.8  | 131.8  | 131.8  | 127.2  | 130.3  |
| 82.5° | 80.3   | 84.8   | 86.3   | 84.8   | 86.3   | 89.4   | 90.9   | 89.4   | 89.4   | 86.3   | 87.9   |
| 85°   | 42.4   | 42.4   | 45.4   | 47.0   | 45.4   | 45.4   | 47.0   | 51.5   | 48.5   | 45.4   | 48.5   |
| 87.5° | 13.6   | 12.1   | 12.1   | 13.6   | 12.1   | 12.1   | 13.6   | 13.6   | 15.1   | 15.1   | 15.1   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1484.4 | 1487.5 | 1489.0 | 1482.9 | 1478.4 | 1486.0 | 1496.6 | 1504.1 | 1510.2 | 1517.8 | 1522.3 |
| 5°    | 1396.6 | 1407.2 | 1407.2 | 1410.2 | 1414.8 | 1422.3 | 1442.0 | 1455.7 | 1467.8 | 1476.9 | 1484.4 |
| 7.5°  | 1322.4 | 1329.9 | 1334.5 | 1342.1 | 1349.6 | 1360.2 | 1383.0 | 1402.6 | 1420.8 | 1431.4 | 1443.5 |
| 10°   | 1255.7 | 1261.8 | 1269.3 | 1273.9 | 1287.5 | 1302.7 | 1331.4 | 1348.1 | 1369.3 | 1386.0 | 1401.1 |
| 12.5° | 1192.1 | 1213.3 | 1217.8 | 1216.3 | 1228.4 | 1245.1 | 1273.9 | 1299.6 | 1322.4 | 1339.0 | 1355.7 |
| 15°   | 1146.7 | 1154.2 | 1163.3 | 1161.8 | 1187.6 | 1192.1 | 1216.3 | 1246.6 | 1276.9 | 1287.5 | 1302.7 |
| 17.5° | 1096.7 | 1108.8 | 1117.9 | 1122.4 | 1130.0 | 1146.7 | 1169.4 | 1192.1 | 1231.5 | 1233.0 | 1272.4 |
| 20°   | 1057.3 | 1069.4 | 1075.5 | 1081.5 | 1086.1 | 1105.8 | 1125.4 | 1151.2 | 1183.0 | 1199.7 | 1220.9 |
| 22.5° | 1031.5 | 1037.6 | 1042.1 | 1046.7 | 1052.7 | 1063.3 | 1087.6 | 1116.4 | 1137.6 | 1155.7 | 1169.4 |
| 25°   | 1001.2 | 1007.3 | 1013.4 | 1016.4 | 1020.9 | 1027.0 | 1045.2 | 1067.9 | 1098.2 | 1110.3 | 1123.9 |
| 27.5° | 980.0  | 980.0  | 983.1  | 983.1  | 989.1  | 995.2  | 1008.8 | 1030.0 | 1054.3 | 1069.4 | 1087.6 |
| 30°   | 957.3  | 955.8  | 957.3  | 955.8  | 954.3  | 963.4  | 975.5  | 993.7  | 1010.3 | 1028.5 | 1040.6 |
| 32.5° | 934.6  | 933.1  | 933.1  | 934.6  | 928.5  | 933.1  | 939.1  | 955.8  | 974.0  | 983.1  | 996.7  |
| 35°   | 910.4  | 907.3  | 907.3  | 907.3  | 904.3  | 901.3  | 907.3  | 922.5  | 934.6  | 946.7  | 957.3  |
| 37.5° | 886.1  | 881.6  | 881.6  | 878.5  | 875.5  | 871.0  | 871.0  | 883.1  | 899.8  | 904.3  | 917.9  |
| 40°   | 852.8  | 852.8  | 849.8  | 848.3  | 845.2  | 842.2  | 837.6  | 848.3  | 863.4  | 867.9  | 878.5  |
| 42.5° | 819.5  | 814.9  | 813.4  | 813.4  | 813.4  | 808.9  | 805.8  | 813.4  | 822.5  | 830.1  | 836.1  |
| 45°   | 781.6  | 778.6  | 780.1  | 778.6  | 775.5  | 774.0  | 772.5  | 775.5  | 786.1  | 789.2  | 796.7  |
| 47.5° | 740.7  | 739.2  | 739.2  | 737.7  | 736.2  | 737.7  | 731.6  | 739.2  | 742.2  | 745.2  | 751.3  |
| 50°   | 698.3  | 696.8  | 695.3  | 693.7  | 693.7  | 695.3  | 693.7  | 693.7  | 699.8  | 702.8  | 708.9  |
| 52.5° | 655.9  | 651.3  | 651.3  | 649.8  | 649.8  | 646.8  | 649.8  | 651.3  | 654.4  | 657.4  | 660.4  |
| 55°   | 610.4  | 610.4  | 605.9  | 605.9  | 602.9  | 602.9  | 604.4  | 602.9  | 608.9  | 612.0  | 612.0  |
| 57.5° | 566.5  | 560.5  | 562.0  | 558.9  | 555.9  | 554.4  | 554.4  | 557.4  | 560.5  | 560.5  | 563.5  |
| 60°   | 519.6  | 513.5  | 512.0  | 505.9  | 509.0  | 504.4  | 505.9  | 505.9  | 512.0  | 509.0  | 512.0  |
| 62.5° | 472.6  | 465.0  | 460.5  | 457.4  | 457.4  | 459.0  | 455.9  | 454.4  | 457.4  | 460.5  | 466.5  |
| 65°   | 422.6  | 418.1  | 413.5  | 409.0  | 409.0  | 407.5  | 410.5  | 405.9  | 404.4  | 405.9  | 409.0  |
| 67.5° | 371.1  | 366.6  | 362.0  | 357.5  | 359.0  | 354.4  | 351.4  | 356.0  | 352.9  | 354.4  | 357.5  |
| 70°   | 321.1  | 318.1  | 309.0  | 306.0  | 304.5  | 306.0  | 304.5  | 301.4  | 306.0  | 304.5  | 306.0  |
| 72.5° | 271.1  | 268.1  | 263.6  | 256.0  | 256.0  | 254.5  | 253.0  | 253.0  | 251.4  | 251.4  | 251.4  |
| 75°   | 222.7  | 216.6  | 212.1  | 210.5  | 207.5  | 206.0  | 204.5  | 201.5  | 203.0  | 204.5  | 201.5  |
| 77.5° | 172.7  | 165.1  | 163.6  | 163.6  | 159.0  | 159.0  | 160.6  | 159.0  | 157.5  | 157.5  | 157.5  |
| 80°   | 127.2  | 121.2  | 121.2  | 118.1  | 115.1  | 115.1  | 115.1  | 115.1  | 113.6  | 112.1  | 113.6  |
| 82.5° | 81.8   | 80.3   | 78.8   | 78.8   | 81.8   | 75.7   | 78.8   | 77.3   | 75.7   | 75.7   | 74.2   |
| 85°   | 45.4   | 47.0   | 45.4   | 47.0   | 43.9   | 45.4   | 45.4   | 45.4   | 43.9   | 45.4   | 42.4   |
| 87.5° | 16.7   | 16.7   | 16.7   | 18.2   | 18.2   | 18.2   | 18.2   | 18.2   | 19.7   | 18.2   | 18.2   |
| 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: P1037286

CATALOG NUMBER: S123DS-B1165DB50-4F0-XX-W2A-A

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1563.2 | 1563.2 | 1563.2 | 1563.2 |
| 2.5°  | 1529.9 | 1534.4 | 1549.6 | 1567.7 |
| 5°    | 1499.6 | 1511.7 | 1532.9 | 1561.7 |
| 7.5°  | 1466.3 | 1484.4 | 1514.7 | 1551.1 |
| 10°   | 1428.4 | 1454.1 | 1492.0 | 1537.5 |
| 12.5° | 1387.5 | 1420.8 | 1469.3 | 1516.2 |
| 15°   | 1361.7 | 1395.1 | 1439.0 | 1490.5 |
| 17.5° | 1311.8 | 1351.1 | 1396.6 | 1469.3 |
| 20°   | 1260.3 | 1304.2 | 1363.3 | 1436.0 |
| 22.5° | 1220.9 | 1267.8 | 1323.9 | 1401.1 |
| 25°   | 1173.9 | 1222.4 | 1283.0 | 1363.3 |
| 27.5° | 1123.9 | 1172.4 | 1240.6 | 1325.4 |
| 30°   | 1086.1 | 1133.0 | 1198.2 | 1289.0 |
| 32.5° | 1040.6 | 1086.1 | 1154.2 | 1249.7 |
| 35°   | 989.1  | 1040.6 | 1105.8 | 1202.7 |
| 37.5° | 949.7  | 996.7  | 1064.9 | 1157.3 |
| 40°   | 907.3  | 948.2  | 1014.9 | 1105.8 |
| 42.5° | 861.9  | 907.3  | 964.9  | 1055.8 |
| 45°   | 819.5  | 852.8  | 911.9  | 998.2  |
| 47.5° | 774.0  | 811.9  | 857.3  | 924.0  |
| 50°   | 725.6  | 757.4  | 807.4  | 852.8  |
| 52.5° | 678.6  | 704.4  | 746.8  | 781.6  |
| 55°   | 628.6  | 654.4  | 686.2  | 707.4  |
| 57.5° | 581.7  | 599.8  | 621.0  | 634.7  |
| 60°   | 524.1  | 542.3  | 555.9  | 569.5  |
| 62.5° | 472.6  | 486.2  | 493.8  | 501.4  |
| 65°   | 419.6  | 427.2  | 431.7  | 437.8  |
| 67.5° | 362.0  | 369.6  | 371.1  | 380.2  |
| 70°   | 309.0  | 310.5  | 313.5  | 318.1  |
| 72.5° | 259.0  | 262.0  | 260.5  | 263.6  |
| 75°   | 207.5  | 210.5  | 207.5  | 210.5  |
| 77.5° | 157.5  | 160.6  | 160.6  | 165.1  |
| 80°   | 113.6  | 115.1  | 116.6  | 116.6  |
| 82.5° | 74.2   | 78.8   | 75.7   | 77.3   |
| 85°   | 42.4   | 43.9   | 43.9   | 45.4   |
| 87.5° | 19.7   | 21.2   | 19.7   | 22.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)