

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: P1030746

Luminaire Tested: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030746
REPORT IS A COMBINATION OF REPORTS P990993 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

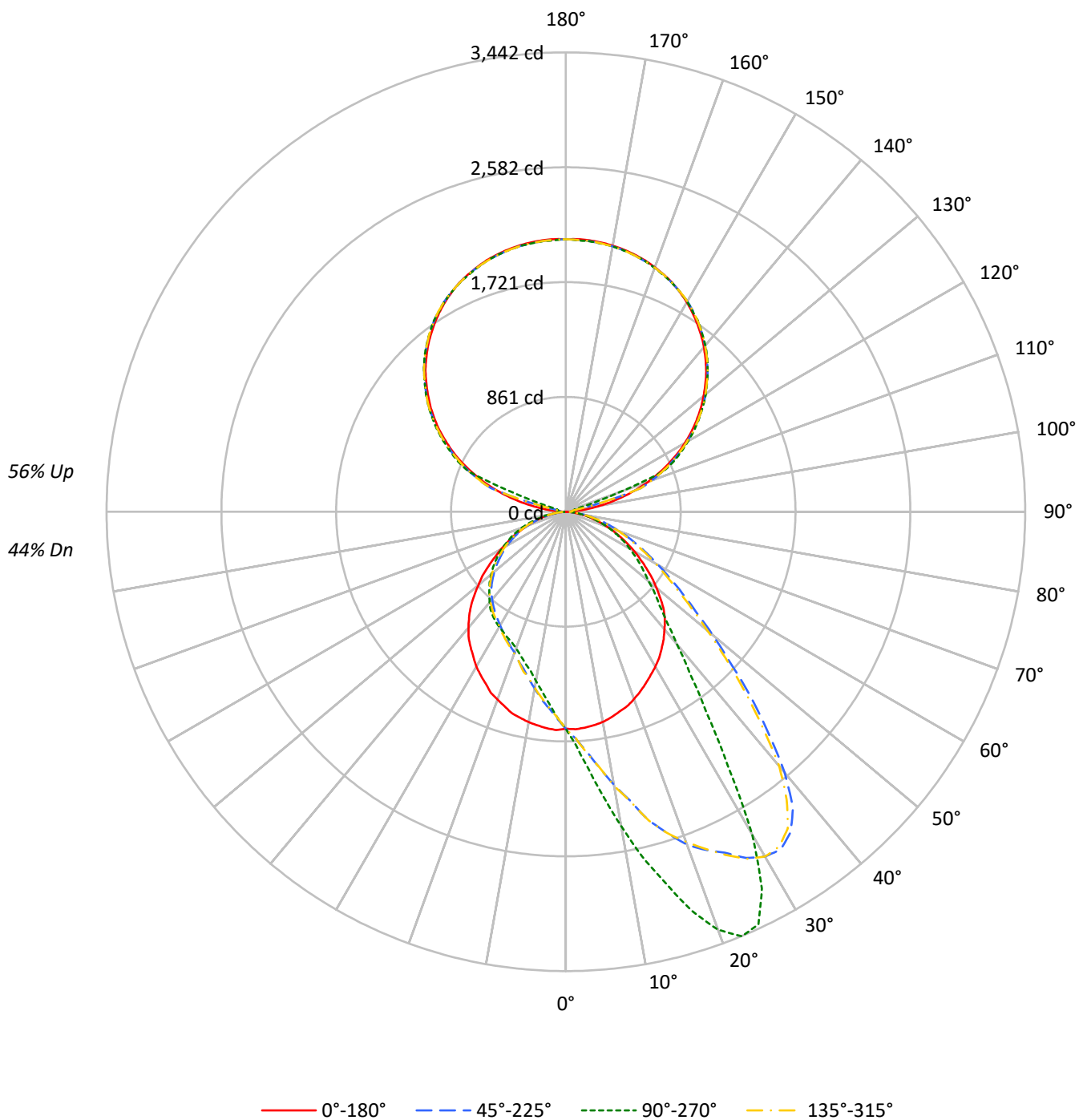
Lumens per Lamp: N/A
Luminaire Lumens: 11136.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51			44
1	97	93	89	85	88	85	82	79	71	68	66	57	56	54	45	44	43			38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37			32
3	81	71	64	59	74	66	59	55	55	50	47	45	42	39	36	33	32			27
4	74	63	56	50	67	58	52	46	49	44	40	40	36	33	32	29	27			24
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	29	26	24			21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21			18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19			16
8	54	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17			14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15			13
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14			12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17500	17500	17500	17500
5°	17511	20164	17563	15049
10°	17400	24401	17418	13141
15°	17160	28938	17299	11829
20°	16953	33317	16989	10885
25°	16646	34156	16682	10392
30°	16427	28220	16427	10069
35°	16154	18873	16052	9784
40°	15828	13624	15633	9347
45°	15419	10792	14974	8805
50°	14424	9165	13910	8271
55°	13330	8053	12789	7677
60°	12224	7012	11572	7052
65°	11006	6005	10472	6220
70°	9742	4984	9094	5243
75°	8331	3759	7790	4047
80°	6585	2509	6075	2659
85°	4543	1153	3631	1048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 28223 cd/sqm

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.4
10°-20°	513.6	4.6
20°-30°	864.1	7.8
30°-40°	976.5	8.8
40°-50°	874.6	7.9
50°-60°	706.1	6.3
60°-70°	492.0	4.4
70°-80°	258.2	2.3
80°-90°	66.0	0.6
90°-100°	72.0	0.6
100°-110°	348.1	3.1
110°-120°	853.1	7.7
120°-130°	1083.0	9.7
130°-140°	1156.9	10.4
140°-150°	1081.9	9.7
150°-160°	872.6	7.8
160°-170°	563.2	5.1
170°-180°	194.1	1.7
0°-30°	1537.6	13.8
0°-40°	2514.1	22.6
0°-60°	4094.8	36.8
0°-90°	4911.1	44.1
90°-120°	1273.3	11.4
90°-150°	4595.1	41.3
90°-180°	6225.0	55.9
0°-180°	11136.0	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	54
90°	2	46	2	46	2	8
95°	92	58	92	58	92	111
105°	452	67	452	67	452	479
115°	848	892	848	892	848	837
125°	1195	1220	1195	1220	1195	1068
135°	1488	1503	1488	1503	1488	1146
145°	1717	1734	1717	1734	1717	1075
155°	1892	1889	1892	1889	1892	872
165°	1995	1990	1995	1990	1995	564
175°	2042	2034	2042	2034	2042	194
180°	2042	2042	2042	2042	2042	

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	1.5	4.9	8.3	11.6	15.0	16.7	18.9	23.3	27.6	32.0	36.4
92.5°	34.9	32.9	30.9	28.8	26.8	25.8	27.3	30.3	33.4	36.4	39.4
95°	92.5	78.7	64.9	51.0	37.2	30.3	32.2	35.9	39.6	43.3	47.0
97.5°	168.4	159.0	149.5	140.1	130.6	125.9	117.3	100.1	82.9	65.7	48.5
100°	256.4	263.1	269.9	276.6	283.3	286.7	260.4	207.8	155.3	102.7	50.1
102.5°	356.5	360.9	365.3	369.6	374.0	376.2	346.9	288.2	229.6	170.9	112.3
105°	452.1	455.8	459.5	463.2	466.9	468.8	453.6	423.3	392.9	362.6	332.2
107.5°	553.7	556.7	559.8	562.8	565.9	567.4	569.9	575.0	580.0	585.1	590.1
110°	655.4	658.1	660.8	663.5	666.2	667.5	669.4	673.1	676.8	680.5	684.2

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	752.4	754.8	757.2	759.5	761.9	763.1	764.9	768.6	772.3	776.0	779.7
115°	848.0	850.0	852.0	854.1	856.1	857.1	858.6	861.7	864.7	867.8	870.8
117.5°	942.1	944.5	946.8	949.2	951.5	952.7	953.5	955.2	956.9	958.6	960.3
120°	1028.5	1031.5	1034.6	1037.6	1040.7	1042.2	1042.7	1043.7	1044.7	1045.7	1046.7
122.5°	1116.5	1118.9	1121.2	1123.6	1125.9	1127.1	1127.8	1129.1	1130.5	1131.8	1133.2
125°	1195.4	1198.1	1200.8	1203.5	1206.2	1207.5	1208.2	1209.5	1210.9	1212.2	1213.6
127.5°	1274.3	1277.0	1279.7	1282.4	1285.1	1286.4	1287.2	1288.9	1290.6	1292.3	1294.0
130°	1347.1	1349.8	1352.5	1355.2	1357.9	1359.2	1359.9	1361.2	1362.6	1363.9	1365.3
132.5°	1416.9	1419.6	1422.3	1425.0	1427.7	1429.0	1429.5	1430.5	1431.6	1432.6	1433.6
135°	1488.2	1490.2	1492.2	1494.3	1496.3	1497.3	1498.0	1499.3	1500.7	1502.0	1503.4
137.5°	1548.9	1551.6	1554.3	1557.0	1559.7	1561.0	1561.3	1562.0	1562.7	1563.3	1564.0
140°	1609.6	1611.6	1613.6	1615.7	1617.7	1618.7	1619.2	1620.2	1621.2	1622.2	1623.2
142.5°	1665.7	1667.7	1669.7	1671.8	1673.8	1674.8	1675.3	1676.3	1677.3	1678.3	1679.3
145°	1717.3	1719.7	1722.0	1724.4	1726.7	1727.9	1728.2	1728.9	1729.6	1730.2	1730.9
147.5°	1767.3	1769.0	1770.7	1772.4	1774.1	1774.9	1775.2	1775.9	1776.6	1777.2	1777.9
150°	1812.8	1813.8	1814.8	1815.9	1816.9	1817.4	1817.7	1818.4	1819.1	1819.7	1820.4
152.5°	1853.8	1854.1	1854.5	1854.8	1855.1	1855.3	1855.5	1855.8	1856.1	1856.5	1856.8
155°	1891.7	1891.0	1890.4	1889.7	1889.0	1888.7	1888.9	1889.2	1889.5	1889.9	1890.2
157.5°	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1921.9	1921.6	1921.2	1920.9	1920.5
160°	1949.4	1949.1	1948.7	1948.4	1948.1	1947.9	1947.7	1947.4	1947.0	1946.7	1946.3
162.5°	1975.2	1974.2	1973.2	1972.1	1971.1	1970.6	1970.4	1970.1	1969.8	1969.4	1969.1
165°	1994.9	1993.9	1992.9	1991.8	1990.8	1990.3	1990.1	1989.8	1989.5	1989.1	1988.8
167.5°	2011.6	2010.2	2008.9	2007.5	2006.2	2005.5	2005.5	2005.5	2005.5	2005.5	2005.5
170°	2025.2	2023.9	2022.5	2021.2	2019.9	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2
172.5°	2034.3	2032.6	2030.9	2029.2	2027.5	2026.7	2026.9	2027.2	2027.6	2027.9	2028.3
175°	2041.9	2040.2	2038.5	2036.8	2035.1	2034.3	2034.5	2034.8	2035.1	2035.5	2035.8
177.5°	2044.9	2043.2	2041.6	2039.9	2038.2	2037.4	2037.6	2037.9	2038.2	2038.6	2038.9
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	37.8	39.1	40.5	41.8	42.5	42.8	43.5	44.2	44.8	45.5	44.8
92.5°	41.8	44.2	46.5	48.9	50.1	50.3	50.6	50.9	51.3	51.6	51.3
95°	49.4	51.7	54.1	56.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6
97.5°	51.2	53.9	56.6	59.3	60.7	60.9	61.2	61.5	61.9	62.2	61.9
100°	52.8	55.5	58.2	60.9	62.2	62.4	62.7	63.0	63.4	63.7	63.4
102.5°	101.2	90.0	78.9	67.8	62.2	62.5	63.2	63.9	64.5	65.2	64.5
105°	272.5	212.9	153.2	93.5	63.7	64.0	64.7	65.4	66.0	66.7	66.0
107.5°	538.2	486.3	434.4	382.5	356.5	334.4	290.3	246.1	202.0	157.8	202.0
110°	673.1	661.9	650.8	639.7	634.1	610.0	561.8	513.6	465.4	417.2	465.4

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	782.7	785.8	788.8	791.9	793.4	793.1	792.4	791.7	791.1	790.4	791.1
115°	874.2	877.5	880.9	884.2	885.9	886.6	887.9	889.3	890.6	892.0	890.6
117.5°	963.0	965.7	968.4	971.1	972.4	972.6	972.9	973.2	973.6	973.9	973.6
120°	1049.4	1052.1	1054.8	1057.5	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9
122.5°	1134.9	1136.6	1138.3	1140.0	1140.8	1141.0	1141.3	1141.6	1142.0	1142.3	1142.0
125°	1214.3	1214.9	1215.6	1216.3	1216.6	1216.9	1217.6	1218.3	1219.0	1219.7	1219.0
127.5°	1295.0	1296.0	1297.1	1298.1	1298.6	1298.3	1297.6	1296.9	1296.2	1295.5	1296.2
130°	1366.7	1368.0	1369.4	1370.7	1371.4	1371.1	1370.4	1369.7	1369.0	1368.3	1369.0
132.5°	1434.9	1436.3	1437.6	1438.9	1439.6	1439.1	1438.1	1437.1	1436.1	1435.1	1436.1
135°	1504.4	1505.4	1506.4	1507.4	1507.9	1507.4	1506.4	1505.4	1504.4	1503.4	1504.4
137.5°	1565.7	1567.4	1569.1	1570.8	1571.6	1571.3	1570.6	1569.9	1569.3	1568.6	1569.3
140°	1624.6	1625.9	1627.3	1628.6	1629.3	1629.0	1628.3	1627.6	1626.9	1626.2	1626.9
142.5°	1680.3	1681.3	1682.4	1683.4	1683.9	1683.4	1682.4	1681.3	1680.3	1679.3	1680.3
145°	1731.6	1732.3	1733.0	1733.7	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0
147.5°	1778.6	1779.3	1780.0	1780.7	1781.0	1780.2	1778.5	1776.8	1775.1	1773.4	1775.1
150°	1821.1	1821.8	1822.5	1823.2	1823.5	1823.0	1822.0	1820.9	1819.9	1818.9	1819.9
152.5°	1858.2	1859.5	1860.9	1862.2	1862.9	1862.1	1860.4	1858.7	1857.0	1855.3	1857.0
155°	1891.9	1893.6	1895.3	1897.0	1897.8	1896.8	1894.8	1892.7	1890.7	1888.7	1890.7
157.5°	1922.5	1924.5	1926.6	1928.6	1929.6	1928.3	1925.6	1922.9	1920.2	1917.5	1920.2
160°	1948.3	1950.3	1952.4	1954.4	1955.4	1954.2	1951.9	1949.5	1947.2	1944.8	1947.2
162.5°	1971.5	1973.8	1976.2	1978.5	1979.7	1978.7	1976.7	1974.6	1972.6	1970.6	1972.6
165°	1991.5	1994.2	1996.9	1999.6	2000.9	1999.7	1997.4	1995.0	1992.7	1990.3	1992.7
167.5°	2008.2	2010.9	2013.6	2016.3	2017.6	2016.3	2013.6	2010.9	2008.2	2005.5	2008.2
170°	2021.9	2024.6	2027.3	2030.0	2031.3	2030.0	2027.3	2024.6	2021.9	2019.2	2021.9
172.5°	2031.0	2033.7	2036.4	2039.1	2040.4	2038.9	2035.8	2032.8	2029.7	2026.7	2029.7
175°	2038.2	2040.6	2042.9	2045.3	2046.5	2045.1	2042.4	2039.7	2037.0	2034.3	2037.0
177.5°	2041.6	2044.3	2047.0	2049.7	2051.0	2049.3	2045.9	2042.6	2039.2	2035.8	2039.2
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	44.2	43.5	42.8	42.5	41.8	40.5	39.1	37.8	36.4	32.0	27.6
92.5°	50.9	50.6	50.3	50.1	48.9	46.5	44.2	41.8	39.4	36.4	33.4
95°	57.6	57.6	57.6	57.6	56.4	54.1	51.7	49.4	47.0	43.3	39.6
97.5°	61.5	61.2	60.9	60.7	59.3	56.6	53.9	51.2	48.5	65.7	82.9
100°	63.0	62.7	62.4	62.2	60.9	58.2	55.5	52.8	50.1	102.7	155.3
102.5°	63.9	63.2	62.5	62.2	67.8	78.9	90.0	101.2	112.3	170.9	229.6
105°	65.4	64.7	64.0	63.7	93.5	153.2	212.9	272.5	332.2	362.6	392.9
107.5°	246.1	290.3	334.4	356.5	382.5	434.4	486.3	538.2	590.1	585.1	580.0
110°	513.6	561.8	610.0	634.1	639.7	650.8	661.9	673.1	684.2	680.5	676.8

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	791.7	792.4	793.1	793.4	791.9	788.8	785.8	782.7	779.7	776.0	772.3
115°	889.3	887.9	886.6	885.9	884.2	880.9	877.5	874.2	870.8	867.8	864.7
117.5°	973.2	972.9	972.6	972.4	971.1	968.4	965.7	963.0	960.3	958.6	956.9
120°	1058.9	1058.9	1058.9	1058.9	1057.5	1054.8	1052.1	1049.4	1046.7	1045.7	1044.7
122.5°	1141.6	1141.3	1141.0	1140.8	1140.0	1138.3	1136.6	1134.9	1133.2	1131.8	1130.5
125°	1218.3	1217.6	1216.9	1216.6	1216.3	1215.6	1214.9	1214.3	1213.6	1212.2	1210.9
127.5°	1296.9	1297.6	1298.3	1298.6	1298.1	1297.1	1296.0	1295.0	1294.0	1292.3	1290.6
130°	1369.7	1370.4	1371.1	1371.4	1370.7	1369.4	1368.0	1366.7	1365.3	1363.9	1362.6
132.5°	1437.1	1438.1	1439.1	1439.6	1438.9	1437.6	1436.3	1434.9	1433.6	1432.6	1431.6
135°	1505.4	1506.4	1507.4	1507.9	1507.4	1506.4	1505.4	1504.4	1503.4	1502.0	1500.7
137.5°	1569.9	1570.6	1571.3	1571.6	1570.8	1569.1	1567.4	1565.7	1564.0	1563.3	1562.7
140°	1627.6	1628.3	1629.0	1629.3	1628.6	1627.3	1625.9	1624.6	1623.2	1622.2	1621.2
142.5°	1681.3	1682.4	1683.4	1683.9	1683.4	1682.4	1681.3	1680.3	1679.3	1678.3	1677.3
145°	1734.0	1734.0	1734.0	1734.0	1733.7	1733.0	1732.3	1731.6	1730.9	1730.2	1729.6
147.5°	1776.8	1778.5	1780.2	1781.0	1780.7	1780.0	1779.3	1778.6	1777.9	1777.2	1776.6
150°	1820.9	1822.0	1823.0	1823.5	1823.2	1822.5	1821.8	1821.1	1820.4	1819.7	1819.1
152.5°	1858.7	1860.4	1862.1	1862.9	1862.2	1860.9	1859.5	1858.2	1856.8	1856.5	1856.1
155°	1892.7	1894.8	1896.8	1897.8	1897.0	1895.3	1893.6	1891.9	1890.2	1889.9	1889.5
157.5°	1922.9	1925.6	1928.3	1929.6	1928.6	1926.6	1924.5	1922.5	1920.5	1920.9	1921.2
160°	1949.5	1951.9	1954.2	1955.4	1954.4	1952.4	1950.3	1948.3	1946.3	1946.7	1947.0
162.5°	1974.6	1976.7	1978.7	1979.7	1978.5	1976.2	1973.8	1971.5	1969.1	1969.4	1969.8
165°	1995.0	1997.4	1999.7	2000.9	1999.6	1996.9	1994.2	1991.5	1988.8	1989.1	1989.5
167.5°	2010.9	2013.6	2016.3	2017.6	2016.3	2013.6	2010.9	2008.2	2005.5	2005.5	2005.5
170°	2024.6	2027.3	2030.0	2031.3	2030.0	2027.3	2024.6	2021.9	2019.2	2019.2	2019.2
172.5°	2032.8	2035.8	2038.9	2040.4	2039.1	2036.4	2033.7	2031.0	2028.3	2027.9	2027.6
175°	2039.7	2042.4	2045.1	2046.5	2045.3	2042.9	2040.6	2038.2	2035.8	2035.5	2035.1
177.5°	2042.6	2045.9	2049.3	2051.0	2049.7	2047.0	2044.3	2041.6	2038.9	2038.6	2038.2
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	23.3	18.9	16.7	15.0	11.6	8.3	4.9	1.5	4.9	8.3	11.6
92.5°	30.3	27.3	25.8	26.8	28.8	30.9	32.9	34.9	32.9	30.9	28.8
95°	35.9	32.2	30.3	37.2	51.0	64.9	78.7	92.5	78.7	64.9	51.0
97.5°	100.1	117.3	125.9	130.6	140.1	149.5	159.0	168.4	159.0	149.5	140.1
100°	207.8	260.4	286.7	283.3	276.6	269.9	263.1	256.4	263.1	269.9	276.6
102.5°	288.2	346.9	376.2	374.0	369.6	365.3	360.9	356.5	360.9	365.3	369.6
105°	423.3	453.6	468.8	466.9	463.2	459.5	455.8	452.1	455.8	459.5	463.2
107.5°	575.0	569.9	567.4	565.9	562.8	559.8	556.7	553.7	556.7	559.8	562.8
110°	673.1	669.4	667.5	666.2	663.5	660.8	658.1	655.4	658.1	660.8	663.5

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	768.6	764.9	763.1	761.9	759.5	757.2	754.8	752.4	754.8	757.2	759.5
115°	861.7	858.6	857.1	856.1	854.1	852.0	850.0	848.0	850.0	852.0	854.1
117.5°	955.2	953.5	952.7	951.5	949.2	946.8	944.5	942.1	944.5	946.8	949.2
120°	1043.7	1042.7	1042.2	1040.7	1037.6	1034.6	1031.5	1028.5	1031.5	1034.6	1037.6
122.5°	1129.1	1127.8	1127.1	1125.9	1123.6	1121.2	1118.9	1116.5	1118.9	1121.2	1123.6
125°	1209.5	1208.2	1207.5	1206.2	1203.5	1200.8	1198.1	1195.4	1198.1	1200.8	1203.5
127.5°	1288.9	1287.2	1286.4	1285.1	1282.4	1279.7	1277.0	1274.3	1277.0	1279.7	1282.4
130°	1361.2	1359.9	1359.2	1357.9	1355.2	1352.5	1349.8	1347.1	1349.8	1352.5	1355.2
132.5°	1430.5	1429.5	1429.0	1427.7	1425.0	1422.3	1419.6	1416.9	1419.6	1422.3	1425.0
135°	1499.3	1498.0	1497.3	1496.3	1494.3	1492.2	1490.2	1488.2	1490.2	1492.2	1494.3
137.5°	1562.0	1561.3	1561.0	1559.7	1557.0	1554.3	1551.6	1548.9	1551.6	1554.3	1557.0
140°	1620.2	1619.2	1618.7	1617.7	1615.7	1613.6	1611.6	1609.6	1611.6	1613.6	1615.7
142.5°	1676.3	1675.3	1674.8	1673.8	1671.8	1669.7	1667.7	1665.7	1667.7	1669.7	1671.8
145°	1728.9	1728.2	1727.9	1726.7	1724.4	1722.0	1719.7	1717.3	1719.7	1722.0	1724.4
147.5°	1775.9	1775.2	1774.9	1774.1	1772.4	1770.7	1769.0	1767.3	1769.0	1770.7	1772.4
150°	1818.4	1817.7	1817.4	1816.9	1815.9	1814.8	1813.8	1812.8	1813.8	1814.8	1815.9
152.5°	1855.8	1855.5	1855.3	1855.1	1854.8	1854.5	1854.1	1853.8	1854.1	1854.5	1854.8
155°	1889.2	1888.9	1888.7	1889.0	1889.7	1890.4	1891.0	1891.7	1891.0	1890.4	1889.7
157.5°	1921.6	1921.9	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1
160°	1947.4	1947.7	1947.9	1948.1	1948.4	1948.7	1949.1	1949.4	1949.1	1948.7	1948.4
162.5°	1970.1	1970.4	1970.6	1971.1	1972.1	1973.2	1974.2	1975.2	1974.2	1973.2	1972.1
165°	1989.8	1990.1	1990.3	1990.8	1991.8	1992.9	1993.9	1994.9	1993.9	1992.9	1991.8
167.5°	2005.5	2005.5	2005.5	2006.2	2007.5	2008.9	2010.2	2011.6	2010.2	2008.9	2007.5
170°	2019.2	2019.2	2019.2	2019.9	2021.2	2022.5	2023.9	2025.2	2023.9	2022.5	2021.2
172.5°	2027.2	2026.9	2026.7	2027.5	2029.2	2030.9	2032.6	2034.3	2032.6	2030.9	2029.2
175°	2034.8	2034.5	2034.3	2035.1	2036.8	2038.5	2040.2	2041.9	2040.2	2038.5	2036.8
177.5°	2037.9	2037.6	2037.4	2038.2	2039.9	2041.6	2043.2	2044.9	2043.2	2041.6	2039.9
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	15.0	16.7	18.9	23.3	27.6	32.0	36.4	37.8	39.1	40.5	41.8
92.5°	26.8	25.8	27.3	30.3	33.4	36.4	39.4	41.8	44.2	46.5	48.9
95°	37.2	30.3	32.2	35.9	39.6	43.3	47.0	49.4	51.7	54.1	56.4
97.5°	130.6	125.9	117.3	100.1	82.9	65.7	48.5	51.2	53.9	56.6	59.3
100°	283.3	286.7	260.4	207.8	155.3	102.7	50.1	52.8	55.5	58.2	60.9
102.5°	374.0	376.2	346.9	288.2	229.6	170.9	112.3	101.2	90.0	78.9	67.8
105°	466.9	468.8	453.6	423.3	392.9	362.6	332.2	272.5	212.9	153.2	93.5
107.5°	565.9	567.4	569.9	575.0	580.0	585.1	590.1	538.2	486.3	434.4	382.5
110°	666.2	667.5	669.4	673.1	676.8	680.5	684.2	673.1	661.9	650.8	639.7

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	761.9	763.1	764.9	768.6	772.3	776.0	779.7	782.7	785.8	788.8	791.9
115°	856.1	857.1	858.6	861.7	864.7	867.8	870.8	874.2	877.5	880.9	884.2
117.5°	951.5	952.7	953.5	955.2	956.9	958.6	960.3	963.0	965.7	968.4	971.1
120°	1040.7	1042.2	1042.7	1043.7	1044.7	1045.7	1046.7	1049.4	1052.1	1054.8	1057.5
122.5°	1125.9	1127.1	1127.8	1129.1	1130.5	1131.8	1133.2	1134.9	1136.6	1138.3	1140.0
125°	1206.2	1207.5	1208.2	1209.5	1210.9	1212.2	1213.6	1214.3	1214.9	1215.6	1216.3
127.5°	1285.1	1286.4	1287.2	1288.9	1290.6	1292.3	1294.0	1295.0	1296.0	1297.1	1298.1
130°	1357.9	1359.2	1359.9	1361.2	1362.6	1363.9	1365.3	1366.7	1368.0	1369.4	1370.7
132.5°	1427.7	1429.0	1429.5	1430.5	1431.6	1432.6	1433.6	1434.9	1436.3	1437.6	1438.9
135°	1496.3	1497.3	1498.0	1499.3	1500.7	1502.0	1503.4	1504.4	1505.4	1506.4	1507.4
137.5°	1559.7	1561.0	1561.3	1562.0	1562.7	1563.3	1564.0	1565.7	1567.4	1569.1	1570.8
140°	1617.7	1618.7	1619.2	1620.2	1621.2	1622.2	1623.2	1624.6	1625.9	1627.3	1628.6
142.5°	1673.8	1674.8	1675.3	1676.3	1677.3	1678.3	1679.3	1680.3	1681.3	1682.4	1683.4
145°	1726.7	1727.9	1728.2	1728.9	1729.6	1730.2	1730.9	1731.6	1732.3	1733.0	1733.7
147.5°	1774.1	1774.9	1775.2	1775.9	1776.6	1777.2	1777.9	1778.6	1779.3	1780.0	1780.7
150°	1816.9	1817.4	1817.7	1818.4	1819.1	1819.7	1820.4	1821.1	1821.8	1822.5	1823.2
152.5°	1855.1	1855.3	1855.5	1855.8	1856.1	1856.5	1856.8	1858.2	1859.5	1860.9	1862.2
155°	1889.0	1888.7	1888.9	1889.2	1889.5	1889.9	1890.2	1891.9	1893.6	1895.3	1897.0
157.5°	1922.1	1922.1	1921.9	1921.6	1921.2	1920.9	1920.5	1922.5	1924.5	1926.6	1928.6
160°	1948.1	1947.9	1947.7	1947.4	1947.0	1946.7	1946.3	1948.3	1950.3	1952.4	1954.4
162.5°	1971.1	1970.6	1970.4	1970.1	1969.8	1969.4	1969.1	1971.5	1973.8	1976.2	1978.5
165°	1990.8	1990.3	1990.1	1989.8	1989.5	1989.1	1988.8	1991.5	1994.2	1996.9	1999.6
167.5°	2006.2	2005.5	2005.5	2005.5	2005.5	2005.5	2005.5	2008.2	2010.9	2013.6	2016.3
170°	2019.9	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2021.9	2024.6	2027.3	2030.0
172.5°	2027.5	2026.7	2026.9	2027.2	2027.6	2027.9	2028.3	2031.0	2033.7	2036.4	2039.1
175°	2035.1	2034.3	2034.5	2034.8	2035.1	2035.5	2035.8	2038.2	2040.6	2042.9	2045.3
177.5°	2038.2	2037.4	2037.6	2037.9	2038.2	2038.6	2038.9	2041.6	2044.3	2047.0	2049.7
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	42.5	42.8	43.5	44.2	44.8	45.5	44.8	44.2	43.5	42.8	42.5
92.5°	50.1	50.3	50.6	50.9	51.3	51.6	51.3	50.9	50.6	50.3	50.1
95°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
97.5°	60.7	60.9	61.2	61.5	61.9	62.2	61.9	61.5	61.2	60.9	60.7
100°	62.2	62.4	62.7	63.0	63.4	63.7	63.4	63.0	62.7	62.4	62.2
102.5°	62.2	62.5	63.2	63.9	64.5	65.2	64.5	63.9	63.2	62.5	62.2
105°	63.7	64.0	64.7	65.4	66.0	66.7	66.0	65.4	64.7	64.0	63.7
107.5°	356.5	334.4	290.3	246.1	202.0	157.8	202.0	246.1	290.3	334.4	356.5
110°	634.1	610.0	561.8	513.6	465.4	417.2	465.4	513.6	561.8	610.0	634.1

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	793.4	793.1	792.4	791.7	791.1	790.4	791.1	791.7	792.4	793.1	793.4
115°	885.9	886.6	887.9	889.3	890.6	892.0	890.6	889.3	887.9	886.6	885.9
117.5°	972.4	972.6	972.9	973.2	973.6	973.9	973.6	973.2	972.9	972.6	972.4
120°	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9
122.5°	1140.8	1141.0	1141.3	1141.6	1142.0	1142.3	1142.0	1141.6	1141.3	1141.0	1140.8
125°	1216.6	1216.9	1217.6	1218.3	1219.0	1219.7	1219.0	1218.3	1217.6	1216.9	1216.6
127.5°	1298.6	1298.3	1297.6	1296.9	1296.2	1295.5	1296.2	1296.9	1297.6	1298.3	1298.6
130°	1371.4	1371.1	1370.4	1369.7	1369.0	1368.3	1369.0	1369.7	1370.4	1371.1	1371.4
132.5°	1439.6	1439.1	1438.1	1437.1	1436.1	1435.1	1436.1	1437.1	1438.1	1439.1	1439.6
135°	1507.9	1507.4	1506.4	1505.4	1504.4	1503.4	1504.4	1505.4	1506.4	1507.4	1507.9
137.5°	1571.6	1571.3	1570.6	1569.9	1569.3	1568.6	1569.3	1569.9	1570.6	1571.3	1571.6
140°	1629.3	1629.0	1628.3	1627.6	1626.9	1626.2	1626.9	1627.6	1628.3	1629.0	1629.3
142.5°	1683.9	1683.4	1682.4	1681.3	1680.3	1679.3	1680.3	1681.3	1682.4	1683.4	1683.9
145°	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0
147.5°	1781.0	1780.2	1778.5	1776.8	1775.1	1773.4	1775.1	1776.8	1778.5	1780.2	1781.0
150°	1823.5	1823.0	1822.0	1820.9	1819.9	1818.9	1819.9	1820.9	1822.0	1823.0	1823.5
152.5°	1862.9	1862.1	1860.4	1858.7	1857.0	1855.3	1857.0	1858.7	1860.4	1862.1	1862.9
155°	1897.8	1896.8	1894.8	1892.7	1890.7	1888.7	1890.7	1892.7	1894.8	1896.8	1897.8
157.5°	1929.6	1928.3	1925.6	1922.9	1920.2	1917.5	1920.2	1922.9	1925.6	1928.3	1929.6
160°	1955.4	1954.2	1951.9	1949.5	1947.2	1944.8	1947.2	1949.5	1951.9	1954.2	1955.4
162.5°	1979.7	1978.7	1976.7	1974.6	1972.6	1970.6	1972.6	1974.6	1976.7	1978.7	1979.7
165°	2000.9	1999.7	1997.4	1995.0	1992.7	1990.3	1992.7	1995.0	1997.4	1999.7	2000.9
167.5°	2017.6	2016.3	2013.6	2010.9	2008.2	2005.5	2008.2	2010.9	2013.6	2016.3	2017.6
170°	2031.3	2030.0	2027.3	2024.6	2021.9	2019.2	2021.9	2024.6	2027.3	2030.0	2031.3
172.5°	2040.4	2038.9	2035.8	2032.8	2029.7	2026.7	2029.7	2032.8	2035.8	2038.9	2040.4
175°	2046.5	2045.1	2042.4	2039.7	2037.0	2034.3	2037.0	2039.7	2042.4	2045.1	2046.5
177.5°	2051.0	2049.3	2045.9	2042.6	2039.2	2035.8	2039.2	2042.6	2045.9	2049.3	2051.0
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	41.8	40.5	39.1	37.8	36.4	32.0	27.6	23.3	18.9	16.7	15.0
92.5°	48.9	46.5	44.2	41.8	39.4	36.4	33.4	30.3	27.3	25.8	26.8
95°	56.4	54.1	51.7	49.4	47.0	43.3	39.6	35.9	32.2	30.3	37.2
97.5°	59.3	56.6	53.9	51.2	48.5	65.7	82.9	100.1	117.3	125.9	130.6
100°	60.9	58.2	55.5	52.8	50.1	102.7	155.3	207.8	260.4	286.7	283.3
102.5°	67.8	78.9	90.0	101.2	112.3	170.9	229.6	288.2	346.9	376.2	374.0
105°	93.5	153.2	212.9	272.5	332.2	362.6	392.9	423.3	453.6	468.8	466.9
107.5°	382.5	434.4	486.3	538.2	590.1	585.1	580.0	575.0	569.9	567.4	565.9
110°	639.7	650.8	661.9	673.1	684.2	680.5	676.8	673.1	669.4	667.5	666.2

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	791.9	788.8	785.8	782.7	779.7	776.0	772.3	768.6	764.9	763.1	761.9
115°	884.2	880.9	877.5	874.2	870.8	867.8	864.7	861.7	858.6	857.1	856.1
117.5°	971.1	968.4	965.7	963.0	960.3	958.6	956.9	955.2	953.5	952.7	951.5
120°	1057.5	1054.8	1052.1	1049.4	1046.7	1045.7	1044.7	1043.7	1042.7	1042.2	1040.7
122.5°	1140.0	1138.3	1136.6	1134.9	1133.2	1131.8	1130.5	1129.1	1127.8	1127.1	1125.9
125°	1216.3	1215.6	1214.9	1214.3	1213.6	1212.2	1210.9	1209.5	1208.2	1207.5	1206.2
127.5°	1298.1	1297.1	1296.0	1295.0	1294.0	1292.3	1290.6	1288.9	1287.2	1286.4	1285.1
130°	1370.7	1369.4	1368.0	1366.7	1365.3	1363.9	1362.6	1361.2	1359.9	1359.2	1357.9
132.5°	1438.9	1437.6	1436.3	1434.9	1433.6	1432.6	1431.6	1430.5	1429.5	1429.0	1427.7
135°	1507.4	1506.4	1505.4	1504.4	1503.4	1502.0	1500.7	1499.3	1498.0	1497.3	1496.3
137.5°	1570.8	1569.1	1567.4	1565.7	1564.0	1563.3	1562.7	1562.0	1561.3	1561.0	1559.7
140°	1628.6	1627.3	1625.9	1624.6	1623.2	1622.2	1621.2	1620.2	1619.2	1618.7	1617.7
142.5°	1683.4	1682.4	1681.3	1680.3	1679.3	1678.3	1677.3	1676.3	1675.3	1674.8	1673.8
145°	1733.7	1733.0	1732.3	1731.6	1730.9	1730.2	1729.6	1728.9	1728.2	1727.9	1726.7
147.5°	1780.7	1780.0	1779.3	1778.6	1777.9	1777.2	1776.6	1775.9	1775.2	1774.9	1774.1
150°	1823.2	1822.5	1821.8	1821.1	1820.4	1819.7	1819.1	1818.4	1817.7	1817.4	1816.9
152.5°	1862.2	1860.9	1859.5	1858.2	1856.8	1856.5	1856.1	1855.8	1855.5	1855.3	1855.1
155°	1897.0	1895.3	1893.6	1891.9	1890.2	1889.9	1889.5	1889.2	1888.9	1888.7	1889.0
157.5°	1928.6	1926.6	1924.5	1922.5	1920.5	1920.9	1921.2	1921.6	1921.9	1922.1	1922.1
160°	1954.4	1952.4	1950.3	1948.3	1946.3	1946.7	1947.0	1947.4	1947.7	1947.9	1948.1
162.5°	1978.5	1976.2	1973.8	1971.5	1969.1	1969.4	1969.8	1970.1	1970.4	1970.6	1971.1
165°	1999.6	1996.9	1994.2	1991.5	1988.8	1989.1	1989.5	1989.8	1990.1	1990.3	1990.8
167.5°	2016.3	2013.6	2010.9	2008.2	2005.5	2005.5	2005.5	2005.5	2005.5	2005.5	2006.2
170°	2030.0	2027.3	2024.6	2021.9	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.9
172.5°	2039.1	2036.4	2033.7	2031.0	2028.3	2027.9	2027.6	2027.2	2026.9	2026.7	2027.5
175°	2045.3	2042.9	2040.6	2038.2	2035.8	2035.5	2035.1	2034.8	2034.5	2034.3	2035.1
177.5°	2049.7	2047.0	2044.3	2041.6	2038.9	2038.6	2038.2	2037.9	2037.6	2037.4	2038.2
180°	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9	2041.9

TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

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°	11.6	8.3	4.9	1.5
92.5°	28.8	30.9	32.9	34.9
95°	51.0	64.9	78.7	92.5
97.5°	140.1	149.5	159.0	168.4
100°	276.6	269.9	263.1	256.4
102.5°	369.6	365.3	360.9	356.5
105°	463.2	459.5	455.8	452.1
107.5°	562.8	559.8	556.7	553.7
110°	663.5	660.8	658.1	655.4



TEST NUMBER: P1030746

CATALOG NUMBER: S123DIW-B1165D1535UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	759.5	757.2	754.8	752.4
115°	854.1	852.0	850.0	848.0
117.5°	949.2	946.8	944.5	942.1
120°	1037.6	1034.6	1031.5	1028.5
122.5°	1123.6	1121.2	1118.9	1116.5
125°	1203.5	1200.8	1198.1	1195.4
127.5°	1282.4	1279.7	1277.0	1274.3
130°	1355.2	1352.5	1349.8	1347.1
132.5°	1425.0	1422.3	1419.6	1416.9
135°	1494.3	1492.2	1490.2	1488.2
137.5°	1557.0	1554.3	1551.6	1548.9
140°	1615.7	1613.6	1611.6	1609.6
142.5°	1671.8	1669.7	1667.7	1665.7
145°	1724.4	1722.0	1719.7	1717.3
147.5°	1772.4	1770.7	1769.0	1767.3
150°	1815.9	1814.8	1813.8	1812.8
152.5°	1854.8	1854.5	1854.1	1853.8
155°	1889.7	1890.4	1891.0	1891.7
157.5°	1922.1	1922.1	1922.1	1922.1
160°	1948.4	1948.7	1949.1	1949.4
162.5°	1972.1	1973.2	1974.2	1975.2
165°	1991.8	1992.9	1993.9	1994.9
167.5°	2007.5	2008.9	2010.2	2011.6
170°	2021.2	2022.5	2023.9	2025.2
172.5°	2029.2	2030.9	2032.6	2034.3
175°	2036.8	2038.5	2040.2	2041.9
177.5°	2039.9	2041.6	2043.2	2044.9
180°	2041.9	2041.9	2041.9	2041.9

(END OF REPORT)