

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: P1030716

Luminaire Tested: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030716
REPORT IS A COMBINATION OF REPORTS P990861 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D1030UB2750-4F0-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

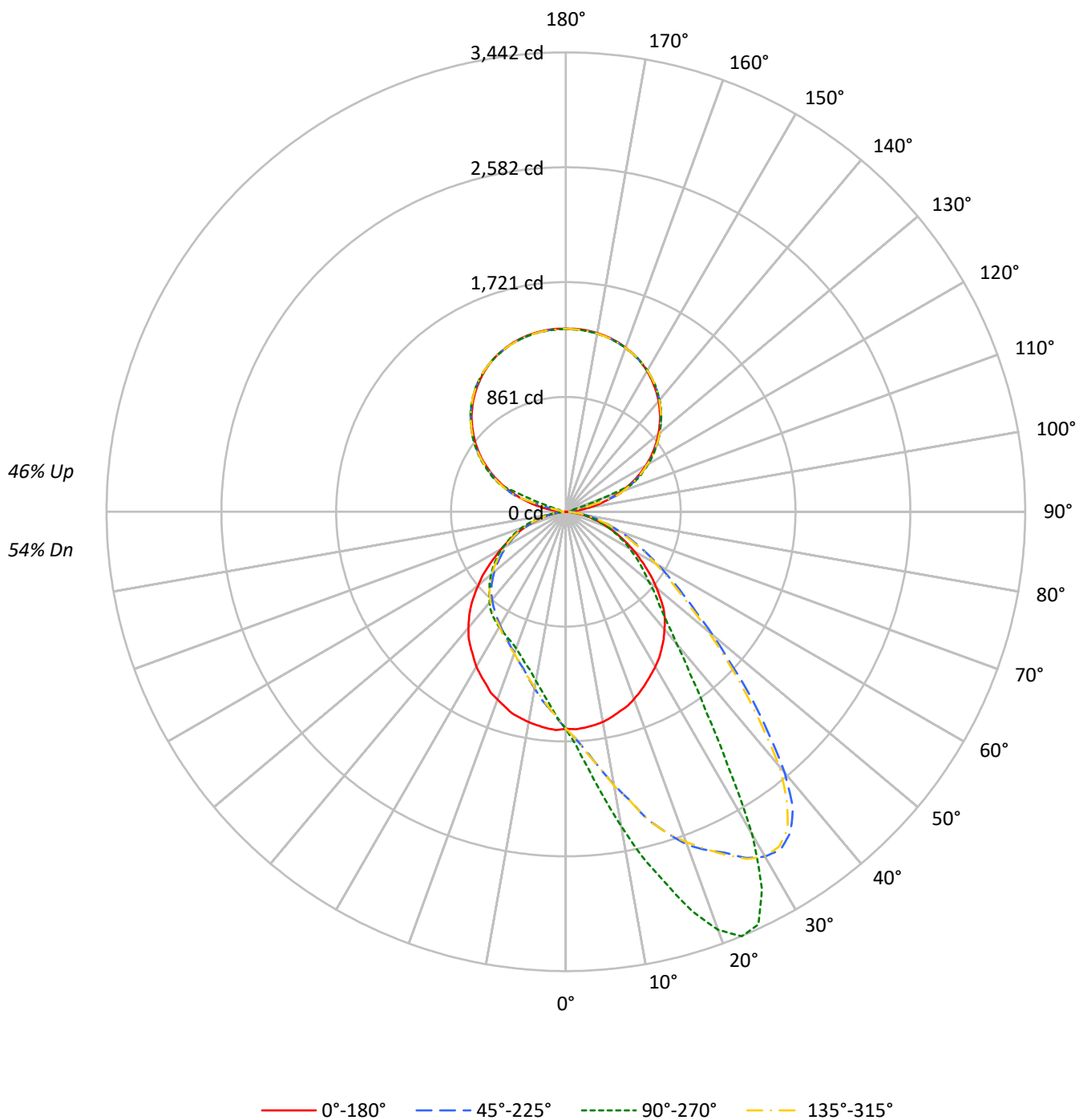
Lumens per Lamp: N/A
Luminaire Lumens: 9090.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51
2	90	83	77	72	84	77	72	68	66	63	59	57	54	51	47	45	43
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	38	38	35	32
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28
6	64	52	44	38	59	49	42	36	42	37	32	37	32	29	31	28	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	30	25	30	26	23	26	23	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	18	22	19	16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.8
10°-20°	513.6	5.6
20°-30°	864.1	9.5
30°-40°	976.5	10.7
40°-50°	874.6	9.6
50°-60°	706.1	7.8
60°-70°	492.0	5.4
70°-80°	258.2	2.8
80°-90°	64.6	0.7
90°-100°	48.4	0.5
100°-110°	233.8	2.6
110°-120°	572.9	6.3
120°-130°	727.3	8.0
130°-140°	776.9	8.5
140°-150°	726.5	8.0
150°-160°	586.0	6.4
160°-170°	378.2	4.2
170°-180°	130.3	1.4
0°-30°	1537.6	16.9
0°-40°	2514.1	27.7
0°-60°	4094.8	45.0
0°-90°	4909.7	54.0
90°-120°	855.0	9.4
90°-150°	3085.8	33.9
90°-180°	4180.0	46.0
0°-180°	9090.0	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°	1	31	1	31	1	7
95°	62	39	62	39	62	74
105°	304	45	304	45	304	322
115°	570	599	570	599	570	562
125°	803	819	803	819	803	717
135°	999	1010	999	1010	999	769
145°	1153	1164	1153	1164	1153	722
155°	1270	1268	1270	1268	1270	585
165°	1340	1337	1340	1337	1340	379
175°	1371	1366	1371	1366	1371	130
180°	1371	1371	1371	1371	1371	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1630.6	1643.2	1649.5	1658.9	1668.4	1682.5	1687.3	1695.1	1692.0	1698.3	1701.4
5°	1624.2	1646.3	1665.2	1688.8	1710.9	1726.7	1742.4	1767.6	1786.5	1789.7	1803.8
7.5°	1613.2	1644.7	1677.8	1710.9	1753.4	1778.6	1807.0	1841.7	1870.0	1915.7	1933.0
10°	1599.0	1643.2	1690.4	1736.1	1794.4	1833.8	1868.4	1926.7	1985.0	2032.3	2076.4
12.5°	1577.0	1632.1	1693.6	1761.3	1836.9	1882.6	1929.9	2007.1	2095.3	2167.8	2215.0
15°	1550.2	1619.5	1698.3	1770.8	1854.3	1939.3	1989.7	2076.4	2202.4	2270.2	2391.5
17.5°	1528.1	1599.0	1677.8	1791.2	1904.7	1989.7	2026.0	2185.1	2271.7	2385.2	2522.2
20°	1493.5	1583.3	1684.1	1797.5	1944.1	1996.0	2070.1	2230.8	2337.9	2486.0	2654.6
22.5°	1457.3	1553.4	1674.7	1792.8	1956.7	2011.8	2112.6	2240.2	2410.4	2556.9	2742.8
25°	1417.9	1521.8	1644.7	1784.9	1945.6	2026.0	2120.5	2278.0	2462.4	2646.7	2818.4
27.5°	1378.5	1491.9	1619.5	1759.7	1915.7	2010.2	2104.7	2268.6	2504.9	2705.0	2924.0
30°	1340.7	1454.1	1581.7	1725.1	1888.9	1980.3	2070.1	2274.9	2538.0	2763.3	2983.8
32.5°	1299.7	1416.3	1550.2	1669.9	1835.4	1933.0	2033.9	2274.9	2558.5	2797.9	2999.6
35°	1250.9	1370.6	1485.6	1605.3	1769.2	1877.9	1991.3	2259.1	2577.4	2809.0	2933.4
37.5°	1203.6	1309.2	1408.4	1525.0	1696.7	1813.3	1944.1	2240.2	2567.9	2761.7	2796.4
40°	1150.1	1255.6	1335.9	1444.7	1625.8	1761.3	1893.6	2215.0	2527.0	2649.8	2549.0
42.5°	1098.1	1181.6	1250.9	1356.4	1553.4	1685.7	1829.1	2169.3	2446.6	2471.8	2245.0
45°	1038.2	1098.1	1159.5	1279.2	1474.6	1610.1	1769.2	2103.2	2317.4	2245.0	1958.2
47.5°	961.0	1014.6	1082.3	1192.6	1391.1	1531.3	1682.5	2018.1	2130.0	1978.7	1665.2
50°	887.0	932.6	995.7	1102.8	1302.9	1439.9	1600.6	1884.2	1939.3	1701.4	1435.2
52.5°	812.9	847.6	909.0	1016.1	1216.2	1348.6	1495.1	1747.1	1715.6	1460.4	1224.1
55°	735.7	765.6	823.9	929.5	1115.4	1241.4	1381.6	1578.6	1496.6	1254.0	1065.0
57.5°	660.1	691.6	751.5	839.7	1014.6	1137.4	1249.3	1403.7	1280.8	1087.0	920.0
60°	592.4	619.1	664.8	751.5	910.6	1009.8	1112.2	1217.8	1115.4	927.9	800.3
62.5°	521.5	546.7	589.2	668.0	805.0	893.3	975.2	1061.8	948.4	811.3	697.9
65°	455.3	475.8	515.2	587.6	699.5	772.0	838.1	898.0	806.6	680.6	595.5
67.5°	395.4	412.8	445.8	510.4	605.0	656.9	710.5	760.9	683.7	582.9	510.4
70°	330.8	345.0	374.9	422.2	497.8	551.4	590.8	628.6	559.3	478.9	430.1
72.5°	274.1	288.3	307.2	356.0	408.0	441.1	483.7	504.1	464.7	398.6	349.7
75°	219.0	230.0	247.3	278.8	327.7	349.7	376.5	392.3	356.0	311.9	282.0
77.5°	171.7	176.4	189.0	211.1	244.2	269.4	289.9	299.3	274.1	245.8	220.6
80°	121.3	127.6	137.1	156.0	181.2	189.0	201.7	212.7	196.9	171.7	156.0
82.5°	80.3	88.2	92.9	100.8	116.6	126.0	129.2	138.6	124.5	115.0	108.7
85°	47.3	50.4	52.0	56.7	64.6	69.3	74.0	75.6	72.5	70.9	64.6
87.5°	23.6	23.6	23.6	26.8	28.4	31.5	33.1	33.1	33.1	31.5	29.9
90°	1.0	3.3	5.5	7.8	10.1	11.2	12.7	15.6	18.5	21.5	24.4
92.5°	23.4	22.0	20.7	19.3	18.0	17.3	18.3	20.4	22.4	24.5	26.5
95°	62.1	52.8	43.6	34.3	25.0	20.4	21.6	24.1	26.6	29.1	31.6
97.5°	113.1	106.8	100.4	94.1	87.8	84.6	78.8	67.3	55.7	44.2	32.6
100°	172.2	176.7	181.2	185.7	190.2	192.5	174.8	139.5	104.2	68.9	33.6
102.5°	239.4	242.3	245.3	248.2	251.1	252.6	232.9	193.5	154.2	114.8	75.4
105°	303.6	306.1	308.6	311.1	313.6	314.8	304.6	284.2	263.9	243.5	223.1
107.5°	371.8	373.8	375.9	377.9	380.0	381.0	382.7	386.1	389.5	392.9	396.3
110°	440.1	441.9	443.7	445.5	447.3	448.2	449.4	451.9	454.4	456.9	459.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	505.3	506.9	508.5	510.0	511.6	512.4	513.6	516.1	518.6	521.1	523.6
115°	569.5	570.9	572.2	573.6	574.9	575.6	576.6	578.7	580.7	582.8	584.8
117.5°	632.6	634.2	635.8	637.4	639.0	639.8	640.4	641.5	642.6	643.8	644.9
120°	690.7	692.7	694.8	696.8	698.9	699.9	700.2	700.9	701.6	702.2	702.9
122.5°	749.8	751.4	753.0	754.5	756.1	756.9	757.4	758.3	759.2	760.1	761.0
125°	802.8	804.6	806.4	808.2	810.0	810.9	811.4	812.3	813.2	814.1	815.0
127.5°	855.7	857.5	859.3	861.2	863.0	863.9	864.5	865.6	866.7	867.9	869.0
130°	904.6	906.4	908.2	910.1	911.9	912.8	913.3	914.2	915.1	916.0	916.9
132.5°	951.5	953.3	955.1	956.9	958.7	959.6	959.9	960.6	961.3	962.0	962.7
135°	999.4	1000.8	1002.1	1003.5	1004.8	1005.5	1006.0	1006.9	1007.8	1008.7	1009.6
137.5°	1040.1	1041.9	1043.7	1045.6	1047.4	1048.3	1048.5	1049.0	1049.4	1049.9	1050.3
140°	1080.9	1082.3	1083.6	1085.0	1086.3	1087.0	1087.3	1088.0	1088.7	1089.3	1090.0
142.5°	1118.6	1120.0	1121.3	1122.7	1124.0	1124.7	1125.0	1125.7	1126.4	1127.0	1127.7
145°	1153.2	1154.8	1156.4	1157.9	1159.5	1160.3	1160.5	1161.0	1161.5	1161.9	1162.4
147.5°	1186.8	1187.9	1189.1	1190.2	1191.3	1191.9	1192.1	1192.6	1193.1	1193.5	1194.0
150°	1217.4	1218.1	1218.7	1219.4	1220.1	1220.4	1220.6	1221.1	1221.6	1222.0	1222.5
152.5°	1244.9	1245.1	1245.3	1245.6	1245.8	1245.9	1246.0	1246.2	1246.5	1246.7	1246.9
155°	1270.4	1269.9	1269.5	1269.0	1268.5	1268.3	1268.4	1268.6	1268.9	1269.1	1269.3
157.5°	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.6	1290.4	1290.1	1289.9	1289.7
160°	1309.1	1308.9	1308.7	1308.4	1308.2	1308.1	1308.0	1307.7	1307.5	1307.2	1307.0
162.5°	1326.4	1325.7	1325.0	1324.3	1323.6	1323.3	1323.2	1323.0	1322.7	1322.5	1322.3
165°	1339.6	1338.9	1338.3	1337.6	1336.9	1336.6	1336.5	1336.3	1336.0	1335.8	1335.6
167.5°	1350.8	1349.9	1349.0	1348.1	1347.2	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8
170°	1360.0	1359.1	1358.2	1357.3	1356.4	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9
172.5°	1366.1	1365.0	1363.8	1362.7	1361.6	1361.0	1361.1	1361.3	1361.6	1361.8	1362.0
175°	1371.2	1370.1	1368.9	1367.8	1366.7	1366.1	1366.2	1366.4	1366.7	1366.9	1367.1
177.5°	1373.3	1372.2	1371.0	1369.9	1368.8	1368.2	1368.3	1368.5	1368.8	1369.0	1369.2
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1712.5	1715.6	1726.7	1734.5	1750.3	1748.7	1748.7	1747.1	1742.4	1750.3	1755.0
5°	1832.2	1859.0	1862.1	1896.8	1898.4	1912.5	1922.0	1914.1	1933.0	1931.5	1917.3
7.5°	1980.3	2016.5	2033.9	2066.9	2104.7	2095.3	2131.5	2137.8	2134.7	2150.4	2161.5
10°	2142.6	2205.6	2249.7	2311.1	2326.9	2336.3	2360.0	2380.4	2421.4	2389.9	2410.4
12.5°	2328.5	2374.1	2432.4	2530.1	2578.9	2610.5	2621.5	2635.7	2664.0	2646.7	2648.3
15°	2484.4	2545.9	2645.1	2766.4	2780.6	2820.0	2810.5	2895.6	2936.6	2875.1	2909.8
17.5°	2646.7	2728.6	2846.8	2952.3	3012.2	3039.0	3064.2	3146.1	3142.9	3133.5	3141.4
20°	2750.7	2884.6	3031.1	3171.3	3188.6	3209.1	3276.9	3311.5	3305.2	3332.0	3349.3
22.5°	2897.2	3039.0	3194.9	3287.9	3327.3	3350.9	3404.5	3426.5	3436.0	3442.3	3431.2
25°	3020.1	3171.3	3286.3	3368.2	3391.9	3404.5	3421.8	3428.1	3423.4	3412.3	3421.8
27.5°	3103.6	3224.9	3303.6	3341.4	3328.8	3308.4	3275.3	3253.2	3204.4	3180.8	3209.1
30°	3138.2	3191.8	3215.4	3152.4	3089.4	3039.0	2976.0	2859.4	2768.0	2794.8	2758.5
32.5°	3083.1	3048.4	2935.0	2772.7	2723.9	2642.0	2463.9	2326.9	2331.6	2259.1	2289.1
35°	2920.8	2763.3	2549.0	2303.3	2238.7	2194.5	1999.2	1969.3	1906.2	1838.5	1857.4
37.5°	2634.1	2404.1	2144.1	1963.0	1866.9	1770.8	1660.5	1594.3	1556.5	1528.1	1550.2
40°	2284.3	2003.9	1789.7	1627.4	1545.5	1484.0	1408.4	1342.3	1299.7	1295.0	1302.9
42.5°	1940.9	1704.6	1507.7	1353.3	1326.5	1254.0	1205.2	1153.2	1140.6	1120.1	1131.1
45°	1643.2	1451.0	1288.7	1162.7	1131.1	1112.2	1052.4	1019.3	1005.1	992.5	1011.4
47.5°	1427.3	1225.7	1107.5	1031.9	1000.4	968.9	935.8	913.7	902.7	904.3	902.7
50°	1219.4	1071.3	967.3	909.0	890.1	868.1	841.3	827.1	822.4	808.2	819.2
52.5°	1049.2	942.1	869.6	814.5	800.3	784.6	762.5	754.6	743.6	740.4	740.4
55°	912.2	828.7	770.4	734.1	716.8	704.2	691.6	682.2	674.3	674.3	674.3
57.5°	805.0	732.6	690.0	658.5	652.2	639.6	625.4	625.4	614.4	612.8	617.6
60°	713.7	649.1	616.0	589.2	579.8	576.6	562.4	562.4	559.3	551.4	557.7
62.5°	620.7	573.4	545.1	524.6	515.2	515.2	504.1	496.3	496.3	497.8	494.7
65°	535.6	501.0	475.8	460.0	455.3	449.0	447.4	441.1	436.4	438.0	436.4
67.5°	460.0	433.2	415.9	403.3	395.4	392.3	387.6	387.6	384.4	386.0	378.1
70°	392.3	365.5	351.3	338.7	335.6	335.6	329.3	330.8	327.7	332.4	329.3
72.5°	323.0	302.5	291.5	286.7	283.6	282.0	278.8	275.7	274.1	277.3	275.7
75°	261.5	244.2	236.3	233.2	230.0	230.0	228.4	226.9	225.3	225.3	225.3
77.5°	203.2	192.2	182.7	185.9	181.2	182.7	178.0	178.0	179.6	178.0	178.0
80°	149.7	141.8	141.8	138.6	132.3	135.5	135.5	130.8	129.2	132.3	127.6
82.5°	99.3	97.7	94.5	92.9	89.8	91.4	89.8	88.2	86.6	89.8	86.6
85°	58.3	58.3	56.7	53.6	56.7	55.1	53.6	53.6	52.0	52.0	52.0
87.5°	29.9	26.8	26.8	25.2	26.8	23.6	25.2	23.6	22.1	23.6	22.1
90°	25.3	26.2	27.1	28.0	28.5	28.7	29.2	29.7	30.1	30.6	30.1
92.5°	28.1	29.7	31.2	32.8	33.6	33.7	33.9	34.2	34.4	34.6	34.4
95°	33.2	34.8	36.3	37.9	38.7	38.7	38.7	38.7	38.7	38.7	38.7
97.5°	34.4	36.2	38.0	39.8	40.7	40.8	41.1	41.3	41.6	41.8	41.6
100°	35.4	37.2	39.1	40.9	41.8	41.9	42.1	42.4	42.6	42.8	42.6
102.5°	67.9	60.5	53.0	45.5	41.8	42.0	42.5	42.9	43.4	43.8	43.4
105°	183.0	143.0	102.9	62.8	42.8	43.0	43.5	43.9	44.4	44.8	44.4
107.5°	361.4	326.6	291.7	256.8	239.4	224.6	194.9	165.2	135.6	105.9	135.6
110°	451.9	444.5	437.0	429.5	425.8	409.6	377.3	344.9	312.6	280.2	312.6

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	525.6	527.7	529.7	531.8	532.8	532.6	532.1	531.7	531.2	530.8	531.2
115°	587.0	589.3	591.5	593.8	594.9	595.4	596.3	597.2	598.1	599.0	598.1
117.5°	646.7	648.5	650.3	652.1	653.0	653.1	653.3	653.6	653.8	654.0	653.8
120°	704.7	706.5	708.4	710.2	711.1	711.1	711.1	711.1	711.1	711.1	711.1
122.5°	762.1	763.3	764.4	765.5	766.1	766.2	766.4	766.7	766.9	767.1	766.9
125°	815.4	815.9	816.3	816.8	817.0	817.2	817.7	818.2	818.6	819.1	818.6
127.5°	869.7	870.3	871.0	871.7	872.0	871.8	871.3	870.9	870.4	870.0	870.4
130°	917.8	918.7	919.6	920.5	920.9	920.7	920.2	919.8	919.3	918.9	919.3
132.5°	963.6	964.5	965.4	966.3	966.8	966.5	965.8	965.1	964.4	963.7	964.4
135°	1010.3	1010.9	1011.6	1012.3	1012.6	1012.3	1011.6	1010.9	1010.3	1009.6	1010.3
137.5°	1051.4	1052.6	1053.7	1054.8	1055.4	1055.2	1054.7	1054.3	1053.8	1053.4	1053.8
140°	1090.9	1091.8	1092.7	1093.6	1094.1	1093.9	1093.4	1093.0	1092.5	1092.1	1092.5
142.5°	1128.4	1129.1	1129.8	1130.5	1130.8	1130.5	1129.8	1129.1	1128.4	1127.7	1128.4
145°	1162.8	1163.3	1163.7	1164.2	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4
147.5°	1194.4	1194.9	1195.3	1195.8	1196.0	1195.4	1194.3	1193.2	1192.0	1190.9	1192.0
150°	1222.9	1223.4	1223.8	1224.3	1224.5	1224.2	1223.5	1222.8	1222.2	1221.5	1222.2
152.5°	1247.8	1248.7	1249.6	1250.5	1251.0	1250.4	1249.3	1248.2	1247.0	1245.9	1247.0
155°	1270.4	1271.6	1272.7	1273.8	1274.4	1273.7	1272.4	1271.0	1269.7	1268.3	1269.7
157.5°	1291.1	1292.4	1293.8	1295.1	1295.8	1294.9	1293.1	1291.3	1289.5	1287.7	1289.5
160°	1308.4	1309.7	1311.1	1312.4	1313.1	1312.3	1310.7	1309.2	1307.6	1306.0	1307.6
162.5°	1323.9	1325.5	1327.0	1328.6	1329.4	1328.7	1327.4	1326.0	1324.7	1323.3	1324.7
165°	1337.4	1339.2	1341.0	1342.8	1343.7	1342.9	1341.3	1339.8	1338.2	1336.6	1338.2
167.5°	1348.6	1350.4	1352.2	1354.0	1354.9	1354.0	1352.2	1350.4	1348.6	1346.8	1348.6
170°	1357.7	1359.5	1361.4	1363.2	1364.1	1363.2	1361.4	1359.5	1357.7	1355.9	1357.7
172.5°	1363.8	1365.6	1367.5	1369.3	1370.2	1369.2	1367.1	1365.1	1363.0	1361.0	1363.0
175°	1368.7	1370.3	1371.9	1373.5	1374.3	1373.4	1371.6	1369.7	1367.9	1366.1	1367.9
177.5°	1371.0	1372.8	1374.6	1376.4	1377.3	1376.2	1373.9	1371.6	1369.4	1367.1	1369.4
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

TEST NUMBER: P1030716

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1742.4	1747.1	1734.5	1731.4	1731.4	1737.7	1733.0	1690.4	1698.3	1688.8	1685.7
5°	1934.6	1925.2	1912.5	1906.2	1898.4	1876.3	1874.7	1825.9	1816.4	1784.9	1770.8
7.5°	2145.7	2137.8	2100.0	2095.3	2092.1	2071.7	2019.7	1967.7	1929.9	1893.6	1859.0
10°	2386.7	2363.1	2345.8	2311.1	2293.8	2265.4	2197.7	2148.9	2084.3	2029.1	1956.7
12.5°	2676.6	2649.8	2591.6	2566.3	2544.3	2465.5	2397.8	2342.6	2216.6	2178.8	2089.0
15°	2889.3	2832.6	2826.3	2771.1	2768.0	2681.4	2552.2	2492.3	2394.6	2256.0	2163.0
17.5°	3119.3	3068.9	3029.5	2963.3	2953.9	2872.0	2777.5	2630.9	2523.8	2391.5	2273.3
20°	3287.9	3261.1	3193.4	3166.6	3111.4	3042.1	2944.4	2763.3	2632.5	2500.2	2355.2
22.5°	3421.8	3395.0	3341.4	3305.2	3273.7	3183.9	3067.3	2912.9	2733.3	2560.0	2410.4
25°	3420.2	3412.3	3390.3	3373.0	3349.3	3283.2	3185.5	3037.4	2837.3	2646.7	2438.7
27.5°	3226.4	3248.5	3286.3	3305.2	3300.5	3291.0	3235.9	3111.4	2931.8	2705.0	2471.8
30°	2823.1	2903.5	2974.4	3068.9	3097.3	3166.6	3198.1	3127.2	2983.8	2772.7	2514.4
32.5°	2341.1	2457.6	2612.0	2664.0	2753.8	2887.7	3037.4	3064.2	2974.4	2812.1	2541.1
35°	1920.4	2016.5	2136.3	2218.2	2298.5	2515.9	2705.0	2868.8	2898.8	2791.6	2534.8
37.5°	1589.6	1657.3	1762.9	1832.2	1906.2	2092.1	2356.8	2569.5	2719.2	2722.3	2517.5
40°	1350.1	1380.1	1471.4	1521.8	1592.7	1753.4	1989.7	2267.0	2486.0	2586.8	2471.8
42.5°	1143.7	1183.1	1258.8	1296.6	1342.3	1482.5	1638.4	1901.5	2172.5	2388.3	2386.7
45°	1020.9	1049.2	1083.9	1115.4	1167.4	1250.9	1428.9	1625.8	1885.8	2130.0	2226.1
47.5°	912.2	938.9	973.6	983.1	1017.7	1096.5	1205.2	1376.9	1619.5	1862.1	2043.3
50°	820.8	842.8	866.5	883.8	899.6	964.2	1046.1	1191.0	1384.8	1619.5	1844.8
52.5°	749.9	765.6	786.1	795.6	809.8	857.0	920.0	1027.2	1186.3	1400.5	1619.5
55°	683.7	694.8	707.4	723.1	729.4	764.1	812.9	904.3	1022.4	1214.6	1422.6
57.5°	622.3	627.0	634.9	644.3	652.2	682.2	724.7	786.1	890.1	1038.2	1235.1
60°	553.0	565.6	570.3	579.8	584.5	608.1	641.2	693.2	773.5	901.1	1049.2
62.5°	494.7	502.6	510.4	515.2	526.2	534.1	560.8	608.1	674.3	768.8	902.7
65°	442.7	445.8	450.6	455.3	458.4	467.9	493.1	524.6	575.0	658.5	762.5
67.5°	382.8	386.0	392.3	393.9	397.0	409.6	423.8	450.6	493.1	556.1	641.2
70°	324.5	329.3	332.4	335.6	340.3	345.0	360.8	382.8	415.9	460.0	526.2
72.5°	274.1	278.8	278.8	282.0	280.4	286.7	302.5	318.2	340.3	376.5	434.8
75°	223.7	223.7	226.9	228.4	230.0	236.3	242.6	255.2	272.5	300.9	337.1
77.5°	176.4	174.9	178.0	178.0	178.0	182.7	189.0	195.4	206.4	226.9	255.2
80°	129.2	129.2	132.3	133.9	130.8	132.3	135.5	141.8	149.7	163.8	179.6
82.5°	85.1	91.4	89.8	91.4	89.8	92.9	94.5	96.1	99.3	105.6	116.6
85°	52.0	52.0	52.0	53.6	52.0	53.6	53.6	53.6	55.1	58.3	63.0
87.5°	22.1	22.1	22.1	23.6	22.1	22.1	23.6	22.1	23.6	23.6	25.2
90°	29.7	29.2	28.7	28.5	28.0	27.1	26.2	25.3	24.4	21.5	18.5
92.5°	34.2	33.9	33.7	33.6	32.8	31.2	29.7	28.1	26.5	24.5	22.4
95°	38.7	38.7	38.7	38.7	37.9	36.3	34.8	33.2	31.6	29.1	26.6
97.5°	41.3	41.1	40.8	40.7	39.8	38.0	36.2	34.4	32.6	44.2	55.7
100°	42.4	42.1	41.9	41.8	40.9	39.1	37.2	35.4	33.6	68.9	104.2
102.5°	42.9	42.5	42.0	41.8	45.5	53.0	60.5	67.9	75.4	114.8	154.2
105°	43.9	43.5	43.0	42.8	62.8	102.9	143.0	183.0	223.1	243.5	263.9
107.5°	165.2	194.9	224.6	239.4	256.8	291.7	326.6	361.4	396.3	392.9	389.5
110°	344.9	377.3	409.6	425.8	429.5	437.0	444.5	451.9	459.4	456.9	454.4

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	531.7	532.1	532.6	532.8	531.8	529.7	527.7	525.6	523.6	521.1	518.6
115°	597.2	596.3	595.4	594.9	593.8	591.5	589.3	587.0	584.8	582.8	580.7
117.5°	653.6	653.3	653.1	653.0	652.1	650.3	648.5	646.7	644.9	643.8	642.6
120°	711.1	711.1	711.1	711.1	710.2	708.4	706.5	704.7	702.9	702.2	701.6
122.5°	766.7	766.4	766.2	766.1	765.5	764.4	763.3	762.1	761.0	760.1	759.2
125°	818.2	817.7	817.2	817.0	816.8	816.3	815.9	815.4	815.0	814.1	813.2
127.5°	870.9	871.3	871.8	872.0	871.7	871.0	870.3	869.7	869.0	867.9	866.7
130°	919.8	920.2	920.7	920.9	920.5	919.6	918.7	917.8	916.9	916.0	915.1
132.5°	965.1	965.8	966.5	966.8	966.3	965.4	964.5	963.6	962.7	962.0	961.3
135°	1010.9	1011.6	1012.3	1012.6	1012.3	1011.6	1010.9	1010.3	1009.6	1008.7	1007.8
137.5°	1054.3	1054.7	1055.2	1055.4	1054.8	1053.7	1052.6	1051.4	1050.3	1049.9	1049.4
140°	1093.0	1093.4	1093.9	1094.1	1093.6	1092.7	1091.8	1090.9	1090.0	1089.3	1088.7
142.5°	1129.1	1129.8	1130.5	1130.8	1130.5	1129.8	1129.1	1128.4	1127.7	1127.0	1126.4
145°	1164.4	1164.4	1164.4	1164.4	1164.2	1163.7	1163.3	1162.8	1162.4	1161.9	1161.5
147.5°	1193.2	1194.3	1195.4	1196.0	1195.8	1195.3	1194.9	1194.4	1194.0	1193.5	1193.1
150°	1222.8	1223.5	1224.2	1224.5	1224.3	1223.8	1223.4	1222.9	1222.5	1222.0	1221.6
152.5°	1248.2	1249.3	1250.4	1251.0	1250.5	1249.6	1248.7	1247.8	1246.9	1246.7	1246.5
155°	1271.0	1272.4	1273.7	1274.4	1273.8	1272.7	1271.6	1270.4	1269.3	1269.1	1268.9
157.5°	1291.3	1293.1	1294.9	1295.8	1295.1	1293.8	1292.4	1291.1	1289.7	1289.9	1290.1
160°	1309.2	1310.7	1312.3	1313.1	1312.4	1311.1	1309.7	1308.4	1307.0	1307.2	1307.5
162.5°	1326.0	1327.4	1328.7	1329.4	1328.6	1327.0	1325.5	1323.9	1322.3	1322.5	1322.7
165°	1339.8	1341.3	1342.9	1343.7	1342.8	1341.0	1339.2	1337.4	1335.6	1335.8	1336.0
167.5°	1350.4	1352.2	1354.0	1354.9	1354.0	1352.2	1350.4	1348.6	1346.8	1346.8	1346.8
170°	1359.5	1361.4	1363.2	1364.1	1363.2	1361.4	1359.5	1357.7	1355.9	1355.9	1355.9
172.5°	1365.1	1367.1	1369.2	1370.2	1369.3	1367.5	1365.6	1363.8	1362.0	1361.8	1361.6
175°	1369.7	1371.6	1373.4	1374.3	1373.5	1371.9	1370.3	1368.7	1367.1	1366.9	1366.7
177.5°	1371.6	1373.9	1376.2	1377.3	1376.4	1374.6	1372.8	1371.0	1369.2	1369.0	1368.8
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-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°	15.6	12.7	11.2	10.1	7.8	5.5	3.3	1.0	3.3	5.5	7.8
92.5°	20.4	18.3	17.3	18.0	19.3	20.7	22.0	23.4	22.0	20.7	19.3
95°	24.1	21.6	20.4	25.0	34.3	43.6	52.8	62.1	52.8	43.6	34.3
97.5°	67.3	78.8	84.6	87.8	94.1	100.4	106.8	113.1	106.8	100.4	94.1
100°	139.5	174.8	192.5	190.2	185.7	181.2	176.7	172.2	176.7	181.2	185.7
102.5°	193.5	232.9	252.6	251.1	248.2	245.3	242.3	239.4	242.3	245.3	248.2
105°	284.2	304.6	314.8	313.6	311.1	308.6	306.1	303.6	306.1	308.6	311.1
107.5°	386.1	382.7	381.0	380.0	377.9	375.9	373.8	371.8	373.8	375.9	377.9
110°	451.9	449.4	448.2	447.3	445.5	443.7	441.9	440.1	441.9	443.7	445.5

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	516.1	513.6	512.4	511.6	510.0	508.5	506.9	505.3	506.9	508.5	510.0
115°	578.7	576.6	575.6	574.9	573.6	572.2	570.9	569.5	570.9	572.2	573.6
117.5°	641.5	640.4	639.8	639.0	637.4	635.8	634.2	632.6	634.2	635.8	637.4
120°	700.9	700.2	699.9	698.9	696.8	694.8	692.7	690.7	692.7	694.8	696.8
122.5°	758.3	757.4	756.9	756.1	754.5	753.0	751.4	749.8	751.4	753.0	754.5
125°	812.3	811.4	810.9	810.0	808.2	806.4	804.6	802.8	804.6	806.4	808.2
127.5°	865.6	864.5	863.9	863.0	861.2	859.3	857.5	855.7	857.5	859.3	861.2
130°	914.2	913.3	912.8	911.9	910.1	908.2	906.4	904.6	906.4	908.2	910.1
132.5°	960.6	959.9	959.6	958.7	956.9	955.1	953.3	951.5	953.3	955.1	956.9
135°	1006.9	1006.0	1005.5	1004.8	1003.5	1002.1	1000.8	999.4	1000.8	1002.1	1003.5
137.5°	1049.0	1048.5	1048.3	1047.4	1045.6	1043.7	1041.9	1040.1	1041.9	1043.7	1045.6
140°	1088.0	1087.3	1087.0	1086.3	1085.0	1083.6	1082.3	1080.9	1082.3	1083.6	1085.0
142.5°	1125.7	1125.0	1124.7	1124.0	1122.7	1121.3	1120.0	1118.6	1120.0	1121.3	1122.7
145°	1161.0	1160.5	1160.3	1159.5	1157.9	1156.4	1154.8	1153.2	1154.8	1156.4	1157.9
147.5°	1192.6	1192.1	1191.9	1191.3	1190.2	1189.1	1187.9	1186.8	1187.9	1189.1	1190.2
150°	1221.1	1220.6	1220.4	1220.1	1219.4	1218.7	1218.1	1217.4	1218.1	1218.7	1219.4
152.5°	1246.2	1246.0	1245.9	1245.8	1245.6	1245.3	1245.1	1244.9	1245.1	1245.3	1245.6
155°	1268.6	1268.4	1268.3	1268.5	1269.0	1269.5	1269.9	1270.4	1269.9	1269.5	1269.0
157.5°	1290.4	1290.6	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7
160°	1307.7	1308.0	1308.1	1308.2	1308.4	1308.7	1308.9	1309.1	1308.9	1308.7	1308.4
162.5°	1323.0	1323.2	1323.3	1323.6	1324.3	1325.0	1325.7	1326.4	1325.7	1325.0	1324.3
165°	1336.3	1336.5	1336.6	1336.9	1337.6	1338.3	1338.9	1339.6	1338.9	1338.3	1337.6
167.5°	1346.8	1346.8	1346.8	1347.2	1348.1	1349.0	1349.9	1350.8	1349.9	1349.0	1348.1
170°	1355.9	1355.9	1355.9	1356.4	1357.3	1358.2	1359.1	1360.0	1359.1	1358.2	1357.3
172.5°	1361.3	1361.1	1361.0	1361.6	1362.7	1363.8	1365.0	1366.1	1365.0	1363.8	1362.7
175°	1366.4	1366.2	1366.1	1366.7	1367.8	1368.9	1370.1	1371.2	1370.1	1368.9	1367.8
177.5°	1368.5	1368.3	1368.2	1368.8	1369.9	1371.0	1372.2	1373.3	1372.2	1371.0	1369.9
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1600.6	1599.0	1602.2	1592.7	1577.0	1569.1	1547.1	1542.3	1540.8	1542.3	1543.9
5°	1556.5	1554.9	1550.2	1534.5	1515.5	1501.4	1474.6	1473.0	1463.6	1454.1	1458.8
7.5°	1514.0	1507.7	1498.2	1477.7	1452.5	1436.8	1414.7	1399.0	1386.4	1378.5	1372.2
10°	1471.4	1462.0	1452.5	1425.7	1394.2	1370.6	1343.8	1331.2	1317.0	1310.7	1304.4
12.5°	1416.3	1406.8	1389.5	1358.0	1339.1	1309.2	1282.4	1269.8	1261.9	1249.3	1241.4
15°	1372.2	1353.3	1343.8	1310.7	1271.4	1268.2	1219.4	1216.2	1200.5	1200.5	1187.9
17.5°	1321.8	1307.6	1290.3	1257.2	1228.8	1200.5	1175.3	1165.8	1151.6	1148.5	1142.2
20°	1272.9	1254.0	1247.7	1214.6	1184.7	1150.1	1123.3	1113.8	1107.5	1101.2	1105.9
22.5°	1222.5	1206.8	1191.0	1161.1	1139.0	1104.4	1088.6	1079.2	1069.7	1066.6	1068.1
25°	1173.7	1159.5	1143.7	1113.8	1090.2	1061.8	1047.6	1042.9	1038.2	1038.2	1036.6
27.5°	1126.4	1112.2	1098.1	1071.3	1047.6	1027.2	1016.1	1011.4	1006.7	1009.8	1013.0
30°	1077.6	1065.0	1052.4	1028.7	1009.8	990.9	984.6	981.5	979.9	987.8	987.8
32.5°	1033.5	1022.4	1013.0	990.9	972.0	956.3	951.5	953.1	954.7	959.4	962.6
35°	987.8	979.9	970.5	951.5	935.8	921.6	923.2	923.2	926.3	934.2	940.5
37.5°	946.8	935.8	927.9	912.2	899.6	887.0	891.7	896.4	899.6	909.0	912.2
40°	898.0	893.3	887.0	871.2	860.2	858.6	860.2	863.3	869.6	874.4	879.1
42.5°	858.6	852.3	844.4	831.8	822.4	823.9	825.5	828.7	831.8	839.7	844.4
45°	814.5	809.8	803.5	792.4	784.6	786.1	787.7	787.7	790.9	800.3	803.5
47.5°	765.6	767.2	759.3	748.3	743.6	743.6	743.6	746.7	754.6	757.8	759.3
50°	718.4	715.2	713.7	702.6	699.5	697.9	699.5	701.1	712.1	710.5	715.2
52.5°	668.0	668.0	666.4	660.1	655.4	655.4	652.2	660.1	663.2	666.4	671.1
55°	619.1	614.4	612.8	609.7	603.4	601.8	605.0	614.4	617.6	620.7	625.4
57.5°	565.6	565.6	562.4	557.7	557.7	557.7	557.7	564.0	568.7	571.9	581.3
60°	516.7	510.4	505.7	505.7	505.7	504.1	513.6	513.6	523.0	524.6	527.8
62.5°	458.4	455.3	452.1	453.7	452.1	455.3	458.4	464.7	466.3	471.0	475.8
65°	403.3	403.3	400.2	409.6	403.3	403.3	411.2	411.2	414.3	419.1	425.4
67.5°	349.7	351.3	348.2	348.2	351.3	352.9	354.5	360.8	362.3	368.6	376.5
70°	294.6	297.8	299.3	296.2	299.3	302.5	305.6	307.2	313.5	316.7	321.4
72.5°	245.8	248.9	244.2	245.8	247.3	250.5	252.1	255.2	258.4	267.8	271.0
75°	196.9	195.4	193.8	200.1	196.9	203.2	204.8	204.8	208.0	215.8	219.0
77.5°	151.2	151.2	152.8	149.7	154.4	152.8	154.4	159.1	163.8	163.8	176.4
80°	105.6	108.7	108.7	108.7	110.3	111.9	108.7	116.6	118.2	118.2	122.9
82.5°	67.7	69.3	67.7	70.9	70.9	74.0	72.5	74.0	77.2	80.3	81.9
85°	36.2	36.2	39.4	39.4	37.8	39.4	37.8	39.4	42.5	42.5	44.1
87.5°	12.6	12.6	12.6	12.6	14.2	12.6	14.2	14.2	12.6	12.6	17.3
90°	10.1	11.2	12.7	15.6	18.5	21.5	24.4	25.3	26.2	27.1	28.0
92.5°	18.0	17.3	18.3	20.4	22.4	24.5	26.5	28.1	29.7	31.2	32.8
95°	25.0	20.4	21.6	24.1	26.6	29.1	31.6	33.2	34.8	36.3	37.9
97.5°	87.8	84.6	78.8	67.3	55.7	44.2	32.6	34.4	36.2	38.0	39.8
100°	190.2	192.5	174.8	139.5	104.2	68.9	33.6	35.4	37.2	39.1	40.9
102.5°	251.1	252.6	232.9	193.5	154.2	114.8	75.4	67.9	60.5	53.0	45.5
105°	313.6	314.8	304.6	284.2	263.9	243.5	223.1	183.0	143.0	102.9	62.8
107.5°	380.0	381.0	382.7	386.1	389.5	392.9	396.3	361.4	326.6	291.7	256.8
110°	447.3	448.2	449.4	451.9	454.4	456.9	459.4	451.9	444.5	437.0	429.5

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CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	511.6	512.4	513.6	516.1	518.6	521.1	523.6	525.6	527.7	529.7	531.8
115°	574.9	575.6	576.6	578.7	580.7	582.8	584.8	587.0	589.3	591.5	593.8
117.5°	639.0	639.8	640.4	641.5	642.6	643.8	644.9	646.7	648.5	650.3	652.1
120°	698.9	699.9	700.2	700.9	701.6	702.2	702.9	704.7	706.5	708.4	710.2
122.5°	756.1	756.9	757.4	758.3	759.2	760.1	761.0	762.1	763.3	764.4	765.5
125°	810.0	810.9	811.4	812.3	813.2	814.1	815.0	815.4	815.9	816.3	816.8
127.5°	863.0	863.9	864.5	865.6	866.7	867.9	869.0	869.7	870.3	871.0	871.7
130°	911.9	912.8	913.3	914.2	915.1	916.0	916.9	917.8	918.7	919.6	920.5
132.5°	958.7	959.6	959.9	960.6	961.3	962.0	962.7	963.6	964.5	965.4	966.3
135°	1004.8	1005.5	1006.0	1006.9	1007.8	1008.7	1009.6	1010.3	1010.9	1011.6	1012.3
137.5°	1047.4	1048.3	1048.5	1049.0	1049.4	1049.9	1050.3	1051.4	1052.6	1053.7	1054.8
140°	1086.3	1087.0	1087.3	1088.0	1088.7	1089.3	1090.0	1090.9	1091.8	1092.7	1093.6
142.5°	1124.0	1124.7	1125.0	1125.7	1126.4	1127.0	1127.7	1128.4	1129.1	1129.8	1130.5
145°	1159.5	1160.3	1160.5	1161.0	1161.5	1161.9	1162.4	1162.8	1163.3	1163.7	1164.2
147.5°	1191.3	1191.9	1192.1	1192.6	1193.1	1193.5	1194.0	1194.4	1194.9	1195.3	1195.8
150°	1220.1	1220.4	1220.6	1221.1	1221.6	1222.0	1222.5	1222.9	1223.4	1223.8	1224.3
152.5°	1245.8	1245.9	1246.0	1246.2	1246.5	1246.7	1246.9	1247.8	1248.7	1249.6	1250.5
155°	1268.5	1268.3	1268.4	1268.6	1268.9	1269.1	1269.3	1270.4	1271.6	1272.7	1273.8
157.5°	1290.7	1290.7	1290.6	1290.4	1290.1	1289.9	1289.7	1291.1	1292.4	1293.8	1295.1
160°	1308.2	1308.1	1308.0	1307.7	1307.5	1307.2	1307.0	1308.4	1309.7	1311.1	1312.4
162.5°	1323.6	1323.3	1323.2	1323.0	1322.7	1322.5	1322.3	1323.9	1325.5	1327.0	1328.6
165°	1336.9	1336.6	1336.5	1336.3	1336.0	1335.8	1335.6	1337.4	1339.2	1341.0	1342.8
167.5°	1347.2	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1348.6	1350.4	1352.2	1354.0
170°	1356.4	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1357.7	1359.5	1361.4	1363.2
172.5°	1361.6	1361.0	1361.1	1361.3	1361.6	1361.8	1362.0	1363.8	1365.6	1367.5	1369.3
175°	1366.7	1366.1	1366.2	1366.4	1366.7	1366.9	1367.1	1368.7	1370.3	1371.9	1373.5
177.5°	1368.8	1368.2	1368.3	1368.5	1368.8	1369.0	1369.2	1371.0	1372.8	1374.6	1376.4
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

TEST NUMBER: P1030716

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1542.3	1543.9	1537.6	1532.9	1545.5	1537.6	1537.6	1539.2	1536.0	1540.8	1539.2
5°	1455.7	1457.3	1446.2	1449.4	1443.1	1441.5	1439.9	1449.4	1447.8	1446.2	1449.4
7.5°	1370.6	1370.6	1365.9	1362.7	1362.7	1358.0	1364.3	1362.7	1365.9	1365.9	1370.6
10°	1299.7	1302.9	1295.0	1287.1	1285.5	1287.1	1287.1	1288.7	1290.3	1301.3	1299.7
12.5°	1241.4	1236.7	1235.1	1230.4	1222.5	1219.4	1216.2	1233.5	1228.8	1228.8	1228.8
15°	1176.8	1187.9	1186.3	1172.1	1169.0	1175.3	1172.1	1172.1	1187.9	1186.3	1184.7
17.5°	1142.2	1139.0	1135.9	1128.0	1129.6	1128.0	1129.6	1129.6	1139.0	1139.0	1139.0
20°	1102.8	1096.5	1096.5	1093.3	1093.3	1088.6	1094.9	1096.5	1102.8	1102.8	1104.4
22.5°	1068.1	1063.4	1063.4	1061.8	1065.0	1058.7	1065.0	1066.6	1066.6	1071.3	1071.3
25°	1038.2	1035.0	1035.0	1038.2	1038.2	1038.2	1038.2	1044.5	1039.8	1041.3	1039.8
27.5°	1011.4	1013.0	1014.6	1016.1	1014.6	1016.1	1017.7	1020.9	1022.4	1020.9	1017.7
30°	986.2	990.9	992.5	992.5	995.7	997.2	998.8	998.8	1000.4	995.7	998.8
32.5°	967.3	967.3	970.5	972.0	975.2	976.8	976.8	979.9	978.3	973.6	975.2
35°	940.5	940.5	946.8	950.0	954.7	953.1	954.7	954.7	956.3	953.1	948.4
37.5°	913.7	916.9	916.9	923.2	924.8	926.3	924.8	927.9	926.3	923.2	921.6
40°	882.2	880.7	882.2	887.0	888.5	888.5	888.5	891.7	891.7	891.7	890.1
42.5°	842.8	847.6	846.0	850.7	849.1	849.1	852.3	855.4	857.0	852.3	853.9
45°	805.0	805.0	808.2	808.2	809.8	809.8	816.1	812.9	816.1	812.9	814.5
47.5°	764.1	765.6	765.6	767.2	770.4	773.5	770.4	772.0	772.0	773.5	770.4
50°	718.4	718.4	721.5	726.3	732.6	729.4	727.8	734.1	729.4	729.4	726.3
52.5°	671.1	675.9	677.4	682.2	686.9	688.5	690.0	686.9	688.5	683.7	685.3
55°	625.4	627.0	633.3	638.0	642.8	642.8	641.2	642.8	644.3	638.0	638.0
57.5°	579.8	584.5	590.8	590.8	597.1	597.1	595.5	595.5	597.1	592.4	590.8
60°	530.9	535.6	543.5	543.5	553.0	554.5	551.4	548.2	548.2	543.5	545.1
62.5°	478.9	483.7	488.4	496.3	502.6	499.4	505.7	499.4	501.0	491.5	491.5
65°	433.2	434.8	442.7	450.6	450.6	453.7	450.6	452.1	447.4	447.4	441.1
67.5°	379.7	379.7	387.6	395.4	403.3	403.3	403.3	398.6	398.6	393.9	393.9
70°	332.4	330.8	338.7	343.4	348.2	349.7	346.6	345.0	341.9	337.1	335.6
72.5°	274.1	277.3	285.1	288.3	296.2	294.6	302.5	293.0	293.0	285.1	283.6
75°	222.1	225.3	233.2	237.9	242.6	242.6	247.3	242.6	236.3	233.2	231.6
77.5°	176.4	174.9	181.2	189.0	190.6	189.0	192.2	190.6	184.3	184.3	181.2
80°	126.0	130.8	137.1	135.5	141.8	140.2	140.2	137.1	137.1	132.3	135.5
82.5°	83.5	88.2	89.8	88.2	89.8	92.9	94.5	92.9	92.9	89.8	91.4
85°	44.1	44.1	47.3	48.8	47.3	47.3	48.8	53.6	50.4	47.3	50.4
87.5°	14.2	12.6	12.6	14.2	12.6	12.6	14.2	14.2	15.8	15.8	15.8
90°	28.5	28.7	29.2	29.7	30.1	30.6	30.1	29.7	29.2	28.7	28.5
92.5°	33.6	33.7	33.9	34.2	34.4	34.6	34.4	34.2	33.9	33.7	33.6
95°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
97.5°	40.7	40.8	41.1	41.3	41.6	41.8	41.6	41.3	41.1	40.8	40.7
100°	41.8	41.9	42.1	42.4	42.6	42.8	42.6	42.4	42.1	41.9	41.8
102.5°	41.8	42.0	42.5	42.9	43.4	43.8	43.4	42.9	42.5	42.0	41.8
105°	42.8	43.0	43.5	43.9	44.4	44.8	44.4	43.9	43.5	43.0	42.8
107.5°	239.4	224.6	194.9	165.2	135.6	105.9	135.6	165.2	194.9	224.6	239.4
110°	425.8	409.6	377.3	344.9	312.6	280.2	312.6	344.9	377.3	409.6	425.8

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	532.8	532.6	532.1	531.7	531.2	530.8	531.2	531.7	532.1	532.6	532.8
115°	594.9	595.4	596.3	597.2	598.1	599.0	598.1	597.2	596.3	595.4	594.9
117.5°	653.0	653.1	653.3	653.6	653.8	654.0	653.8	653.6	653.3	653.1	653.0
120°	711.1	711.1	711.1	711.1	711.1	711.1	711.1	711.1	711.1	711.1	711.1
122.5°	766.1	766.2	766.4	766.7	766.9	767.1	766.9	766.7	766.4	766.2	766.1
125°	817.0	817.2	817.7	818.2	818.6	819.1	818.6	818.2	817.7	817.2	817.0
127.5°	872.0	871.8	871.3	870.9	870.4	870.0	870.4	870.9	871.3	871.8	872.0
130°	920.9	920.7	920.2	919.8	919.3	918.9	919.3	919.8	920.2	920.7	920.9
132.5°	966.8	966.5	965.8	965.1	964.4	963.7	964.4	965.1	965.8	966.5	966.8
135°	1012.6	1012.3	1011.6	1010.9	1010.3	1009.6	1010.3	1010.9	1011.6	1012.3	1012.6
137.5°	1055.4	1055.2	1054.7	1054.3	1053.8	1053.4	1053.8	1054.3	1054.7	1055.2	1055.4
140°	1094.1	1093.9	1093.4	1093.0	1092.5	1092.1	1092.5	1093.0	1093.4	1093.9	1094.1
142.5°	1130.8	1130.5	1129.8	1129.1	1128.4	1127.7	1128.4	1129.1	1129.8	1130.5	1130.8
145°	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4	1164.4
147.5°	1196.0	1195.4	1194.3	1193.2	1192.0	1190.9	1192.0	1193.2	1194.3	1195.4	1196.0
150°	1224.5	1224.2	1223.5	1222.8	1222.2	1221.5	1222.2	1222.8	1223.5	1224.2	1224.5
152.5°	1251.0	1250.4	1249.3	1248.2	1247.0	1245.9	1247.0	1248.2	1249.3	1250.4	1251.0
155°	1274.4	1273.7	1272.4	1271.0	1269.7	1268.3	1269.7	1271.0	1272.4	1273.7	1274.4
157.5°	1295.8	1294.9	1293.1	1291.3	1289.5	1287.7	1289.5	1291.3	1293.1	1294.9	1295.8
160°	1313.1	1312.3	1310.7	1309.2	1307.6	1306.0	1307.6	1309.2	1310.7	1312.3	1313.1
162.5°	1329.4	1328.7	1327.4	1326.0	1324.7	1323.3	1324.7	1326.0	1327.4	1328.7	1329.4
165°	1343.7	1342.9	1341.3	1339.8	1338.2	1336.6	1338.2	1339.8	1341.3	1342.9	1343.7
167.5°	1354.9	1354.0	1352.2	1350.4	1348.6	1346.8	1348.6	1350.4	1352.2	1354.0	1354.9
170°	1364.1	1363.2	1361.4	1359.5	1357.7	1355.9	1357.7	1359.5	1361.4	1363.2	1364.1
172.5°	1370.2	1369.2	1367.1	1365.1	1363.0	1361.0	1363.0	1365.1	1367.1	1369.2	1370.2
175°	1374.3	1373.4	1371.6	1369.7	1367.9	1366.1	1367.9	1369.7	1371.6	1373.4	1374.3
177.5°	1377.3	1376.2	1373.9	1371.6	1369.4	1367.1	1369.4	1371.6	1373.9	1376.2	1377.3
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-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°	28.0	27.1	26.2	25.3	24.4	21.5	18.5	15.6	12.7	11.2	10.1
92.5°	32.8	31.2	29.7	28.1	26.5	24.5	22.4	20.4	18.3	17.3	18.0
95°	37.9	36.3	34.8	33.2	31.6	29.1	26.6	24.1	21.6	20.4	25.0
97.5°	39.8	38.0	36.2	34.4	32.6	44.2	55.7	67.3	78.8	84.6	87.8
100°	40.9	39.1	37.2	35.4	33.6	68.9	104.2	139.5	174.8	192.5	190.2
102.5°	45.5	53.0	60.5	67.9	75.4	114.8	154.2	193.5	232.9	252.6	251.1
105°	62.8	102.9	143.0	183.0	223.1	243.5	263.9	284.2	304.6	314.8	313.6
107.5°	256.8	291.7	326.6	361.4	396.3	392.9	389.5	386.1	382.7	381.0	380.0
110°	429.5	437.0	444.5	451.9	459.4	456.9	454.4	451.9	449.4	448.2	447.3

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	531.8	529.7	527.7	525.6	523.6	521.1	518.6	516.1	513.6	512.4	511.6
115°	593.8	591.5	589.3	587.0	584.8	582.8	580.7	578.7	576.6	575.6	574.9
117.5°	652.1	650.3	648.5	646.7	644.9	643.8	642.6	641.5	640.4	639.8	639.0
120°	710.2	708.4	706.5	704.7	702.9	702.2	701.6	700.9	700.2	699.9	698.9
122.5°	765.5	764.4	763.3	762.1	761.0	760.1	759.2	758.3	757.4	756.9	756.1
125°	816.8	816.3	815.9	815.4	815.0	814.1	813.2	812.3	811.4	810.9	810.0
127.5°	871.7	871.0	870.3	869.7	869.0	867.9	866.7	865.6	864.5	863.9	863.0
130°	920.5	919.6	918.7	917.8	916.9	916.0	915.1	914.2	913.3	912.8	911.9
132.5°	966.3	965.4	964.5	963.6	962.7	962.0	961.3	960.6	959.9	959.6	958.7
135°	1012.3	1011.6	1010.9	1010.3	1009.6	1008.7	1007.8	1006.9	1006.0	1005.5	1004.8
137.5°	1054.8	1053.7	1052.6	1051.4	1050.3	1049.9	1049.4	1049.0	1048.5	1048.3	1047.4
140°	1093.6	1092.7	1091.8	1090.9	1090.0	1089.3	1088.7	1088.0	1087.3	1087.0	1086.3
142.5°	1130.5	1129.8	1129.1	1128.4	1127.7	1127.0	1126.4	1125.7	1125.0	1124.7	1124.0
145°	1164.2	1163.7	1163.3	1162.8	1162.4	1161.9	1161.5	1161.0	1160.5	1160.3	1159.5
147.5°	1195.8	1195.3	1194.9	1194.4	1194.0	1193.5	1193.1	1192.6	1192.1	1191.9	1191.3
150°	1224.3	1223.8	1223.4	1222.9	1222.5	1222.0	1221.6	1221.1	1220.6	1220.4	1220.1
152.5°	1250.5	1249.6	1248.7	1247.8	1246.9	1246.7	1246.5	1246.2	1246.0	1245.9	1245.8
155°	1273.8	1272.7	1271.6	1270.4	1269.3	1269.1	1268.9	1268.6	1268.4	1268.3	1268.5
157.5°	1295.1	1293.8	1292.4	1291.1	1289.7	1289.9	1290.1	1290.4	1290.6	1290.7	1290.7
160°	1312.4	1311.1	1309.7	1308.4	1307.0	1307.2	1307.5	1307.7	1308.0	1308.1	1308.2
162.5°	1328.6	1327.0	1325.5	1323.9	1322.3	1322.5	1322.7	1323.0	1323.2	1323.3	1323.6
165°	1342.8	1341.0	1339.2	1337.4	1335.6	1335.8	1336.0	1336.3	1336.5	1336.6	1336.9
167.5°	1354.0	1352.2	1350.4	1348.6	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1347.2
170°	1363.2	1361.4	1359.5	1357.7	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1356.4
172.5°	1369.3	1367.5	1365.6	1363.8	1362.0	1361.8	1361.6	1361.3	1361.1	1361.0	1361.6
175°	1373.5	1371.9	1370.3	1368.7	1367.1	1366.9	1366.7	1366.4	1366.2	1366.1	1366.7
177.5°	1376.4	1374.6	1372.8	1371.0	1369.2	1369.0	1368.8	1368.5	1368.3	1368.2	1368.8
180°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-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°	7.8	5.5	3.3	1.0
92.5°	19.3	20.7	22.0	23.4
95°	34.3	43.6	52.8	62.1
97.5°	94.1	100.4	106.8	113.1
100°	185.7	181.2	176.7	172.2
102.5°	248.2	245.3	242.3	239.4
105°	311.1	308.6	306.1	303.6
107.5°	377.9	375.9	373.8	371.8
110°	445.5	443.7	441.9	440.1

TEST NUMBER: P1030716

CATALOG NUMBER: S123DIW-B1165D1030UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	510.0	508.5	506.9	505.3
115°	573.6	572.2	570.9	569.5
117.5°	637.4	635.8	634.2	632.6
120°	696.8	694.8	692.7	690.7
122.5°	754.5	753.0	751.4	749.8
125°	808.2	806.4	804.6	802.8
127.5°	861.2	859.3	857.5	855.7
130°	910.1	908.2	906.4	904.6
132.5°	956.9	955.1	953.3	951.5
135°	1003.5	1002.1	1000.8	999.4
137.5°	1045.6	1043.7	1041.9	1040.1
140°	1085.0	1083.6	1082.3	1080.9
142.5°	1122.7	1121.3	1120.0	1118.6
145°	1157.9	1156.4	1154.8	1153.2
147.5°	1190.2	1189.1	1187.9	1186.8
150°	1219.4	1218.7	1218.1	1217.4
152.5°	1245.6	1245.3	1245.1	1244.9
155°	1269.0	1269.5	1269.9	1270.4
157.5°	1290.7	1290.7	1290.7	1290.7
160°	1308.4	1308.7	1308.9	1309.1
162.5°	1324.3	1325.0	1325.7	1326.4
165°	1337.6	1338.3	1338.9	1339.6
167.5°	1348.1	1349.0	1349.9	1350.8
170°	1357.3	1358.2	1359.1	1360.0
172.5°	1362.7	1363.8	1365.0	1366.1
175°	1367.8	1368.9	1370.1	1371.2
177.5°	1369.9	1371.0	1372.2	1373.3
180°	1371.2	1371.2	1371.2	1371.2

(END OF REPORT)