

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: P1029428

Luminaire Tested: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029428
REPORT IS A COMBINATION OF REPORTS P985850 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

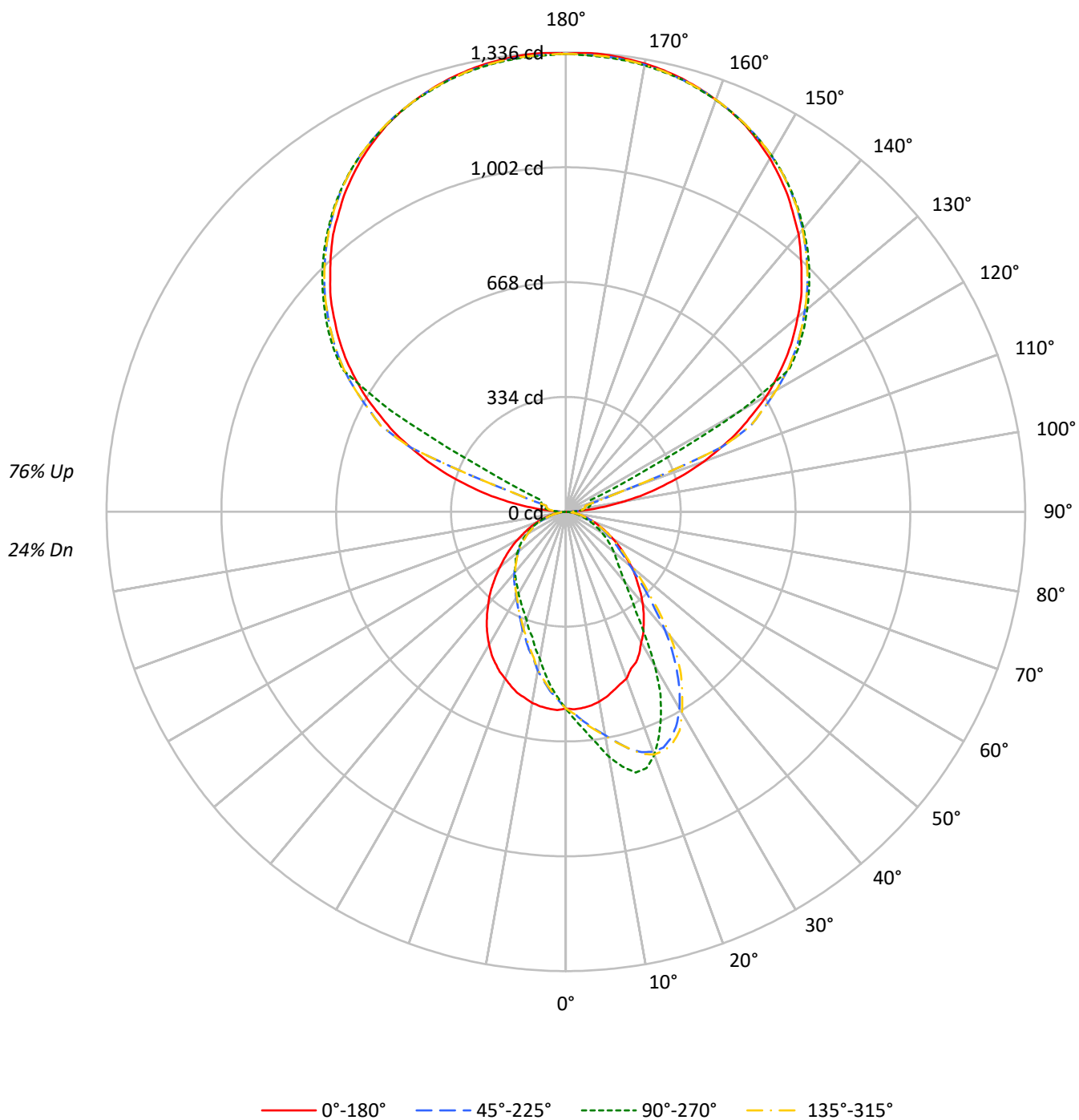
Lumens per Lamp: N/A
Luminaire Lumens: 5168.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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

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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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33			24
1	92	88	85	81	82	79	76	73	61	59	57	44	43	42	29	29	28			21
2	84	77	72	67	75	69	64	60	53	50	47	39	37	35	26	25	24			18
3	77	68	61	56	68	61	55	50	47	43	40	35	32	30	23	22	21			16
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	19	18			14
5	65	54	46	40	57	48	42	37	38	33	30	28	25	23	19	17	16			12
6	59	48	40	35	53	43	37	32	34	29	26	25	22	20	17	15	14			11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	17	16	14	12			9
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	14	13	11			9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	13	11	10			8
10	44	33	26	21	39	29	23	19	23	19	16	18	15	13	12	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9054	9054	9054	9054
5°	9075	9654	9110	7680
10°	8971	10539	9027	6332
15°	8753	11116	8875	5334
20°	8617	10438	8617	4636
25°	8342	8967	8380	4146
30°	7890	7049	8041	3755
35°	7490	4874	7616	3435
40°	7029	3680	7110	3181
45°	6462	3025	6567	2906
50°	5971	2654	5983	2661
55°	5412	2262	5446	2394
60°	4816	1890	4882	2089
65°	4284	1537	4362	1784
70°	3750	1205	3846	1438
75°	3149	875	3273	1043
80°	2459	555	2635	620
85°	1610	280	1737	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	158.6	3.1
20°-30°	230.1	4.5
30°-40°	242.6	4.7
40°-50°	214.7	4.2
50°-60°	171.4	3.3
60°-70°	116.4	2.3
70°-80°	59.6	1.2
80°-90°	16.4	0.3
90°-100°	43.9	0.8
100°-110°	163.7	3.2
110°-120°	434.1	8.4
120°-130°	720.0	13.9
130°-140°	764.8	14.8
140°-150°	710.8	13.8
150°-160°	571.4	11.1
160°-170°	368.2	7.1
170°-180°	126.7	2.5
0°-30°	443.2	8.6
0°-40°	685.8	13.3
0°-60°	1071.9	20.7
0°-90°	1264.4	24.5
90°-120°	641.7	12.4
90°-150°	2837.2	54.9
90°-180°	3904.0	75.5
0°-180°	5168.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	572	572	572	572	572	
5°	572	639	575	508	572	54
15°	538	785	545	377	538	152
25°	483	654	485	302	483	221
35°	394	356	401	251	394	247
45°	296	215	301	206	296	230
55°	203	151	204	160	203	181
65°	120	93	123	108	120	120
75°	56	46	58	54	56	60
85°	11	12	12	9	11	13
90°	1	26	1	26	1	4
95°	63	41	63	41	63	74
105°	293	73	293	73	293	313
115°	554	79	554	79	554	545
125°	783	824	783	824	783	699
135°	969	1001	969	1001	969	749
145°	1124	1142	1124	1142	1124	703
155°	1238	1239	1238	1239	1238	571
165°	1305	1302	1305	1302	1305	369
175°	1334	1327	1334	1327	1334	127
180°	1332	1332	1332	1332	1332	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	575.1	576.4	578.6	579.0	583.4	586.9	590.9	590.9	592.2	591.8	588.3
5°	572.4	576.4	582.1	586.9	594.9	598.4	603.7	607.6	611.1	613.8	613.3
7.5°	568.0	575.1	583.4	592.7	603.2	609.4	616.8	623.9	628.7	633.1	636.2
10°	560.6	572.4	583.9	596.2	609.8	618.2	627.0	636.2	643.7	652.0	659.9
12.5°	550.5	567.6	581.7	597.9	614.6	623.9	637.9	645.0	659.5	680.6	686.3
15°	537.7	561.0	574.2	594.9	616.8	624.3	643.7	655.1	685.0	698.2	714.0
17.5°	525.8	551.8	569.4	593.1	614.6	629.2	648.1	671.4	696.4	715.3	732.9
20°	516.2	541.2	562.3	588.7	616.0	634.4	654.2	682.4	709.6	729.0	742.6
22.5°	494.2	526.3	550.9	580.4	613.3	638.8	657.7	688.5	718.0	729.8	741.7
25°	483.2	510.9	539.5	572.9	611.6	641.9	658.2	692.5	718.4	722.8	725.4
27.5°	463.0	494.2	527.6	565.8	611.1	636.6	657.3	688.5	709.2	706.1	698.2
30°	437.9	476.2	513.1	554.4	605.0	632.7	652.0	680.6	691.1	675.3	661.2
32.5°	419.4	455.5	496.4	544.3	597.9	624.3	643.2	665.6	667.8	639.3	615.5
35°	394.4	434.4	480.5	531.1	586.1	609.8	627.4	641.0	630.5	590.5	562.3
37.5°	372.0	411.5	460.8	512.2	569.8	593.1	607.2	609.4	583.4	548.3	506.9
40°	347.3	388.2	439.7	493.7	551.8	572.0	580.8	574.2	536.8	495.9	448.0
42.5°	322.7	363.2	418.6	474.0	528.9	546.1	549.6	531.5	485.8	437.9	382.5
45°	295.9	338.1	393.5	449.3	502.5	512.2	512.6	486.7	432.6	382.5	331.1
47.5°	273.9	313.0	368.0	423.8	468.7	475.3	472.6	442.7	383.8	327.5	282.7
50°	249.7	287.1	341.6	396.6	434.8	436.6	430.0	387.3	329.7	278.3	242.7
52.5°	223.8	261.6	311.7	364.5	398.8	396.1	383.4	337.7	283.6	240.9	213.7
55°	203.1	236.5	283.6	335.0	359.2	351.7	337.7	291.1	248.4	212.4	188.6
57.5°	180.3	209.7	255.9	300.7	314.8	307.8	293.7	250.2	210.6	183.3	167.5
60°	158.7	185.5	226.0	263.4	274.3	266.9	250.6	211.5	182.9	160.0	148.2
62.5°	138.9	162.2	196.1	230.4	234.8	227.3	213.2	181.6	157.0	138.9	130.1
65°	120.5	142.4	169.7	195.6	199.6	191.7	177.2	154.3	133.7	122.2	113.9
67.5°	102.4	120.0	144.2	163.1	165.3	157.8	146.0	127.5	114.8	102.4	96.3
70°	86.6	99.8	118.7	134.1	135.0	127.9	121.8	105.1	95.4	86.6	81.8
72.5°	71.2	80.5	95.0	106.4	106.8	102.4	96.7	86.2	77.8	71.7	66.8
75°	56.3	64.2	73.0	83.1	82.7	79.1	74.7	68.1	61.1	57.2	55.0
77.5°	43.1	47.9	55.0	61.6	61.6	59.8	57.2	52.3	47.9	44.0	41.8
80°	30.8	33.9	39.6	41.8	42.6	42.2	40.0	36.5	34.7	31.7	30.8
82.5°	19.8	22.0	24.6	26.8	28.1	27.3	26.8	25.1	22.4	21.5	20.7
85°	11.4	12.3	13.6	14.9	15.4	14.9	15.8	14.5	13.2	13.2	12.8
87.5°	4.8	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	1.0	3.4	5.7	8.1	10.4	11.6	12.5	14.2	15.9	17.6	19.3
92.5°	24.1	23.2	22.4	21.5	20.6	20.2	20.5	21.2	21.8	22.5	23.1
95°	62.6	55.5	48.5	41.4	34.3	30.8	31.6	33.1	34.6	36.1	37.6
97.5°	112.7	95.1	77.6	60.0	42.5	33.7	35.4	38.8	42.3	45.7	49.1
100°	170.5	141.2	111.8	82.5	53.2	38.5	40.3	44.0	47.6	51.3	54.9
102.5°	234.1	233.7	233.3	232.8	232.4	232.2	212.7	173.7	134.8	95.8	56.8
105°	292.9	299.3	305.7	312.2	318.6	321.8	292.6	234.1	175.7	117.2	58.8
107.5°	361.3	366.7	372.0	377.4	382.7	385.4	349.3	277.2	205.0	132.9	60.7
110°	426.8	431.3	435.8	440.3	444.8	447.1	416.2	354.3	292.4	230.5	168.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	488.5	492.3	496.2	500.0	503.9	505.8	504.0	500.4	496.7	493.1	489.5
115°	554.0	557.6	561.3	564.9	568.6	570.4	573.1	578.4	583.8	589.1	594.5
117.5°	610.9	615.2	619.4	623.7	628.0	630.1	631.9	635.6	639.2	642.9	646.5
120°	674.4	677.6	680.8	684.1	687.3	688.9	690.8	694.7	698.5	702.4	706.2
122.5°	728.4	731.8	735.2	738.7	742.1	743.8	745.9	750.2	754.5	758.8	763.1
125°	783.3	786.1	788.9	791.7	794.5	795.9	797.9	802.0	806.1	810.1	814.2
127.5°	833.4	836.4	839.4	842.4	845.4	846.9	848.5	851.7	855.0	858.2	861.4
130°	880.6	884.0	887.5	890.9	894.4	896.1	897.3	899.6	902.0	904.3	906.7
132.5°	928.8	931.6	934.4	937.1	939.9	941.3	942.5	944.8	947.2	949.5	951.9
135°	969.3	972.7	976.1	979.6	983.0	984.7	985.7	987.6	989.5	991.5	993.4
137.5°	1011.7	1014.3	1016.8	1019.4	1021.9	1023.2	1024.3	1026.4	1028.6	1030.7	1032.9
140°	1053.1	1054.8	1056.5	1058.2	1059.9	1060.8	1062.0	1064.3	1066.7	1069.0	1071.4
142.5°	1087.8	1089.3	1090.8	1092.3	1093.8	1094.5	1095.9	1098.7	1101.5	1104.3	1107.1
145°	1124.4	1124.2	1124.0	1123.7	1123.5	1123.4	1125.2	1128.9	1132.5	1136.2	1139.8
147.5°	1156.2	1155.6	1154.9	1154.3	1153.6	1153.3	1155.1	1158.8	1162.4	1166.1	1169.7
150°	1187.0	1185.5	1184.0	1182.5	1181.0	1180.3	1182.0	1185.4	1188.9	1192.3	1195.7
152.5°	1213.0	1211.3	1209.6	1207.9	1206.2	1205.3	1206.9	1210.1	1213.4	1216.6	1219.8
155°	1238.1	1236.2	1234.2	1232.3	1230.4	1229.4	1230.7	1233.3	1235.8	1238.4	1241.0
157.5°	1258.3	1256.6	1254.9	1253.2	1251.5	1250.6	1251.6	1253.5	1255.4	1257.4	1259.3
160°	1275.7	1274.4	1273.1	1271.8	1270.5	1269.9	1270.5	1271.8	1273.1	1274.4	1275.7
162.5°	1291.1	1289.8	1288.5	1287.2	1285.9	1285.3	1285.8	1286.9	1288.0	1289.0	1290.1
165°	1304.6	1303.3	1302.0	1300.7	1299.4	1298.8	1299.1	1299.8	1300.4	1301.1	1301.7
167.5°	1315.2	1313.9	1312.6	1311.3	1310.0	1309.4	1309.7	1310.4	1311.0	1311.7	1312.3
170°	1323.8	1322.5	1321.3	1320.0	1318.7	1318.1	1318.3	1318.7	1319.2	1319.6	1320.0
172.5°	1329.6	1328.3	1327.0	1325.7	1324.4	1323.8	1324.0	1324.5	1324.9	1325.4	1325.8
175°	1334.4	1332.9	1331.4	1329.9	1328.4	1327.7	1327.9	1328.3	1328.8	1329.2	1329.6
177.5°	1336.4	1334.9	1333.4	1331.9	1330.4	1329.6	1329.7	1329.9	1330.2	1330.4	1330.6
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	594.4	594.9	595.7	600.1	602.3	602.8	601.0	605.0	606.3	605.0	604.1
5°	622.6	625.2	630.5	636.2	635.7	636.2	638.8	641.5	642.3	638.8	640.1
7.5°	647.2	652.5	658.2	667.0	667.0	671.4	673.1	675.3	680.6	678.0	677.1
10°	675.3	682.4	692.9	707.0	707.4	711.8	716.2	723.2	725.4	723.7	724.6
12.5°	710.5	724.1	725.0	740.4	747.4	748.3	755.3	754.0	758.4	758.4	765.9
15°	725.9	747.0	758.9	773.8	778.2	772.9	778.6	784.8	785.2	785.2	784.8
17.5°	753.6	761.9	773.8	781.7	783.5	783.5	783.9	786.6	784.8	781.3	783.9
20°	759.3	762.8	767.2	766.3	767.2	762.8	758.4	754.0	754.5	752.3	758.9
22.5°	748.7	747.9	737.7	731.2	731.2	722.4	714.0	710.1	706.1	707.4	709.6
25°	722.4	708.7	696.4	686.7	684.6	670.5	659.0	655.5	648.9	654.2	655.1
27.5°	680.2	664.8	645.0	636.6	625.2	619.5	611.6	601.0	587.4	595.3	594.0
30°	634.9	612.0	595.7	575.5	557.5	556.2	541.2	523.6	516.6	516.6	520.6
32.5°	584.3	554.0	530.2	501.7	484.1	476.6	458.6	441.0	444.9	431.7	436.6
35°	525.4	485.4	455.5	427.8	414.6	405.8	382.5	372.8	362.3	356.1	367.6
37.5°	469.1	423.0	384.7	354.4	349.5	333.7	317.9	311.7	305.6	308.2	307.8
40°	400.5	359.6	325.3	301.6	293.3	285.8	275.2	267.8	263.8	266.0	266.4
42.5°	338.5	304.2	278.7	262.0	255.0	249.7	244.5	238.3	237.0	237.0	238.7
45°	290.6	262.5	245.3	231.7	227.7	223.8	219.8	217.2	216.3	214.6	215.9
47.5°	252.4	229.9	219.4	209.3	204.9	204.0	200.5	199.2	197.4	197.0	197.4
50°	220.3	206.2	196.5	190.8	187.7	186.4	184.7	182.0	181.1	183.3	182.5
52.5°	197.8	184.7	179.4	173.7	171.9	170.1	167.5	167.9	167.5	166.6	166.6
55°	175.4	167.1	161.8	157.4	157.0	155.2	153.0	152.1	151.7	150.8	152.1
57.5°	157.4	150.8	146.0	142.0	140.3	140.3	138.1	136.3	136.3	135.9	136.3
60°	139.4	132.8	129.7	125.7	124.4	124.0	122.7	121.8	120.5	120.5	120.5
62.5°	122.7	117.4	113.9	110.4	110.8	108.6	106.8	106.0	106.0	106.4	106.4
65°	106.8	103.3	98.9	95.8	95.0	94.5	93.6	93.2	91.9	92.8	92.8
67.5°	92.3	87.5	84.9	83.5	82.2	81.8	80.9	80.0	79.6	79.1	80.0
70°	77.8	73.9	71.7	70.8	69.5	69.0	68.6	67.3	67.7	68.1	68.6
72.5°	64.6	61.1	60.7	58.0	58.0	58.0	56.3	57.2	56.7	55.8	56.7
75°	51.0	49.2	48.4	47.0	47.5	47.0	46.6	45.3	45.3	45.7	46.2
77.5°	40.4	38.7	38.3	36.9	36.1	36.9	36.1	35.6	35.6	36.1	36.1
80°	29.9	29.0	27.7	27.7	27.7	27.3	27.3	27.3	26.8	26.4	26.8
82.5°	19.8	19.8	19.3	18.9	19.3	18.5	18.9	18.9	18.9	18.9	18.9
85°	12.8	12.3	12.3	11.9	11.9	11.9	12.3	11.4	11.4	11.9	11.9
87.5°	5.7	5.7	5.7	6.2	5.7	5.7	5.7	6.2	5.7	5.7	5.7
90°	20.4	21.4	22.5	23.6	24.1	24.3	24.7	25.2	25.6	26.0	25.6
92.5°	23.5	24.0	24.4	24.9	25.1	25.2	25.4	25.6	25.8	26.0	25.8
95°	38.7	39.7	40.8	41.9	42.4	42.3	42.1	41.8	41.6	41.4	41.6
97.5°	49.7	50.4	51.0	51.7	52.0	52.1	52.3	52.6	52.8	53.0	52.8
100°	56.6	58.3	60.0	61.7	62.6	62.8	63.3	63.7	64.2	64.6	64.2
102.5°	59.2	61.5	63.9	66.2	67.4	67.7	68.4	69.0	69.7	70.3	69.7
105°	61.2	63.5	65.9	68.2	69.4	69.8	70.7	71.5	72.4	73.2	72.4
107.5°	63.1	65.4	67.8	70.1	71.3	71.7	72.6	73.5	74.3	75.2	74.3
110°	147.2	125.8	104.4	83.0	72.3	72.7	73.6	74.4	75.3	76.1	75.3

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	397.2	304.9	212.6	120.3	74.2	74.5	75.2	75.8	76.5	77.1	76.5
115°	495.4	396.2	297.1	198.0	148.4	140.7	125.3	109.8	94.4	79.0	94.4
117.5°	615.9	585.3	554.6	524.0	508.7	480.7	424.6	368.5	312.4	256.3	312.4
120°	708.8	711.4	713.9	716.5	717.8	703.3	674.4	645.5	616.6	587.7	616.6
122.5°	764.4	765.7	767.0	768.3	768.9	769.0	769.2	769.4	769.6	769.8	769.6
125°	815.7	817.2	818.7	820.2	820.9	821.2	821.9	822.5	823.2	823.8	823.2
127.5°	863.5	865.7	867.8	869.9	871.0	871.1	871.3	871.6	871.8	872.0	871.8
130°	909.1	911.4	913.8	916.1	917.3	917.2	917.0	916.7	916.5	916.3	916.5
132.5°	953.8	955.8	957.7	959.6	960.6	960.5	960.3	960.0	959.8	959.6	959.8
135°	995.5	997.7	999.8	1001.9	1003.0	1002.8	1002.4	1001.9	1001.5	1001.1	1001.5
137.5°	1035.0	1037.2	1039.3	1041.4	1042.5	1042.2	1041.5	1040.9	1040.2	1039.6	1040.2
140°	1073.3	1075.3	1077.2	1079.1	1080.1	1079.6	1078.5	1077.4	1076.4	1075.3	1076.4
142.5°	1108.8	1110.5	1112.2	1113.9	1114.8	1114.3	1113.2	1112.1	1111.1	1110.0	1111.1
145°	1141.3	1142.8	1144.3	1145.8	1146.6	1146.1	1145.0	1143.9	1142.8	1141.7	1142.8
147.5°	1170.8	1171.8	1172.9	1174.0	1174.5	1174.1	1173.2	1172.4	1171.5	1170.7	1171.5
150°	1197.0	1198.3	1199.6	1200.9	1201.5	1201.0	1199.9	1198.8	1197.8	1196.7	1197.8
152.5°	1221.1	1222.4	1223.7	1225.0	1225.6	1224.8	1223.3	1221.8	1220.3	1218.8	1220.3
155°	1242.3	1243.6	1244.9	1246.2	1246.8	1245.9	1244.2	1242.5	1240.8	1239.1	1240.8
157.5°	1260.8	1262.3	1263.8	1265.3	1266.0	1265.1	1263.4	1261.7	1260.0	1258.3	1260.0
160°	1277.0	1278.3	1279.6	1280.9	1281.5	1280.7	1279.2	1277.7	1276.2	1274.7	1276.2
162.5°	1291.6	1293.1	1294.6	1296.1	1296.9	1295.9	1294.0	1292.1	1290.1	1288.2	1290.1
165°	1303.2	1304.7	1306.2	1307.7	1308.4	1307.7	1306.2	1304.7	1303.2	1301.7	1303.2
167.5°	1313.8	1315.3	1316.8	1318.3	1319.0	1318.0	1316.1	1314.2	1312.3	1310.4	1312.3
170°	1321.5	1323.0	1324.5	1326.0	1326.7	1325.7	1323.8	1321.9	1320.0	1318.1	1320.0
172.5°	1327.3	1328.8	1330.3	1331.8	1332.5	1331.5	1329.6	1327.7	1325.7	1323.8	1325.7
175°	1331.1	1332.6	1334.1	1335.6	1336.4	1335.3	1333.2	1331.0	1328.9	1326.7	1328.9
177.5°	1332.1	1333.6	1335.1	1336.6	1337.3	1336.3	1334.4	1332.5	1330.6	1328.7	1330.6
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	606.3	603.2	600.6	601.0	603.2	601.5	597.1	591.3	589.1	586.5	589.1
5°	642.8	640.1	634.9	635.3	634.0	632.2	625.2	616.4	616.4	609.4	608.5
7.5°	678.8	674.9	671.4	670.5	665.6	662.1	656.0	643.7	638.8	630.5	625.6
10°	719.3	716.2	712.2	707.4	704.8	698.6	688.5	670.5	661.7	650.3	641.9
12.5°	760.2	759.7	750.9	741.3	740.8	731.2	724.1	699.9	688.1	672.7	652.9
15°	786.1	783.9	779.1	774.2	775.6	765.0	749.2	720.6	712.7	694.2	673.1
17.5°	785.7	785.7	784.4	783.5	782.2	779.1	770.3	751.4	738.6	715.3	695.5
20°	760.6	766.3	767.6	767.2	771.6	773.8	773.4	761.5	751.4	730.7	710.5
22.5°	710.5	723.7	729.4	732.9	742.1	747.0	758.4	754.0	751.4	736.0	718.8
25°	663.9	668.3	685.4	686.3	699.1	710.9	722.4	729.8	739.5	733.8	719.3
27.5°	603.7	613.8	626.1	635.3	637.9	662.1	681.0	695.1	717.1	718.8	714.0
30°	535.5	540.3	560.6	572.9	586.9	604.5	631.8	656.0	675.8	693.8	699.9
32.5°	452.4	472.2	484.1	499.0	511.3	542.5	576.0	607.2	630.0	660.4	673.6
35°	376.3	391.7	412.0	418.1	440.5	466.9	510.4	550.5	585.2	616.0	642.8
37.5°	313.5	325.8	347.3	357.0	370.2	404.0	440.5	490.2	532.0	569.8	603.2
40°	270.4	279.6	295.9	299.0	310.0	340.7	370.2	416.8	472.2	523.2	559.7
42.5°	240.9	245.3	256.3	260.3	267.3	288.0	314.4	358.3	409.8	462.5	514.0
45°	219.8	222.9	229.5	233.0	241.8	251.0	272.6	307.8	348.2	401.4	456.8
47.5°	200.9	204.9	207.5	209.7	214.6	224.7	238.7	264.7	303.4	352.2	405.8
50°	185.1	186.4	191.3	191.7	194.8	201.4	214.6	230.4	261.2	300.7	352.6
52.5°	169.3	170.6	173.7	176.7	178.1	183.3	192.1	205.3	228.2	259.4	305.6
55°	153.4	155.2	158.3	160.5	161.8	166.2	171.5	184.2	202.2	224.2	262.0
57.5°	137.6	141.6	142.4	143.8	146.0	150.8	155.6	163.1	177.2	197.4	225.1
60°	122.7	124.0	127.1	128.4	130.6	133.2	139.4	145.1	155.2	171.0	196.1
62.5°	107.3	110.4	111.7	113.0	114.8	117.8	121.8	127.9	136.7	149.5	169.3
65°	94.1	94.5	97.2	98.9	100.7	102.9	106.8	112.6	117.8	129.7	144.2
67.5°	81.3	82.2	83.1	84.9	87.1	89.3	92.8	95.8	102.4	110.4	121.8
70°	69.0	69.0	71.2	72.5	72.1	74.7	77.4	80.9	85.7	93.2	102.4
72.5°	58.0	57.6	59.4	59.8	60.7	62.4	64.2	67.7	70.3	76.1	83.1
75°	46.2	47.0	47.9	47.9	49.2	50.6	52.3	54.1	57.2	60.7	65.9
77.5°	36.5	36.5	37.4	37.8	39.1	38.7	40.4	42.2	44.4	47.5	51.4
80°	26.8	27.7	27.7	27.7	28.1	28.6	30.3	31.7	33.0	35.2	36.9
82.5°	18.9	18.9	19.8	19.8	19.8	20.7	20.7	21.1	22.0	23.3	24.6
85°	11.9	11.9	11.9	12.3	11.9	12.3	13.2	12.8	13.2	14.1	14.1
87.5°	5.7	5.7	5.7	5.7	5.7	6.2	5.7	6.2	6.6	6.6	6.6
90°	25.2	24.7	24.3	24.1	23.6	22.5	21.4	20.4	19.3	17.6	15.9
92.5°	25.6	25.4	25.2	25.1	24.9	24.4	24.0	23.5	23.1	22.5	21.8
95°	41.8	42.1	42.3	42.4	41.9	40.8	39.7	38.7	37.6	36.1	34.6
97.5°	52.6	52.3	52.1	52.0	51.7	51.0	50.4	49.7	49.1	45.7	42.3
100°	63.7	63.3	62.8	62.6	61.7	60.0	58.3	56.6	54.9	51.3	47.6
102.5°	69.0	68.4	67.7	67.4	66.2	63.9	61.5	59.2	56.8	95.8	134.8
105°	71.5	70.7	69.8	69.4	68.2	65.9	63.5	61.2	58.8	117.2	175.7
107.5°	73.5	72.6	71.7	71.3	70.1	67.8	65.4	63.1	60.7	132.9	205.0
110°	74.4	73.6	72.7	72.3	83.0	104.4	125.8	147.2	168.6	230.5	292.4

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	75.8	75.2	74.5	74.2	120.3	212.6	304.9	397.2	489.5	493.1	496.7
115°	109.8	125.3	140.7	148.4	198.0	297.1	396.2	495.4	594.5	589.1	583.8
117.5°	368.5	424.6	480.7	508.7	524.0	554.6	585.3	615.9	646.5	642.9	639.2
120°	645.5	674.4	703.3	717.8	716.5	713.9	711.4	708.8	706.2	702.4	698.5
122.5°	769.4	769.2	769.0	768.9	768.3	767.0	765.7	764.4	763.1	758.8	754.5
125°	822.5	821.9	821.2	820.9	820.2	818.7	817.2	815.7	814.2	810.1	806.1
127.5°	871.6	871.3	871.1	871.0	869.9	867.8	865.7	863.5	861.4	858.2	855.0
130°	916.7	917.0	917.2	917.3	916.1	913.8	911.4	909.1	906.7	904.3	902.0
132.5°	960.0	960.3	960.5	960.6	959.6	957.7	955.8	953.8	951.9	949.5	947.2
135°	1001.9	1002.4	1002.8	1003.0	1001.9	999.8	997.7	995.5	993.4	991.5	989.5
137.5°	1040.9	1041.5	1042.2	1042.5	1041.4	1039.3	1037.2	1035.0	1032.9	1030.7	1028.6
140°	1077.4	1078.5	1079.6	1080.1	1079.1	1077.2	1075.3	1073.3	1071.4	1069.0	1066.7
142.5°	1112.1	1113.2	1114.3	1114.8	1113.9	1112.2	1110.5	1108.8	1107.1	1104.3	1101.5
145°	1143.9	1145.0	1146.1	1146.6	1145.8	1144.3	1142.8	1141.3	1139.8	1136.2	1132.5
147.5°	1172.4	1173.2	1174.1	1174.5	1174.0	1172.9	1171.8	1170.8	1169.7	1166.1	1162.4
150°	1198.8	1199.9	1201.0	1201.5	1200.9	1199.6	1198.3	1197.0	1195.7	1192.3	1188.9
152.5°	1221.8	1223.3	1224.8	1225.6	1225.0	1223.7	1222.4	1221.1	1219.8	1216.6	1213.4
155°	1242.5	1244.2	1245.9	1246.8	1246.2	1244.9	1243.6	1242.3	1241.0	1238.4	1235.8
157.5°	1261.7	1263.4	1265.1	1266.0	1265.3	1263.8	1262.3	1260.8	1259.3	1257.4	1255.4
160°	1277.7	1279.2	1280.7	1281.5	1280.9	1279.6	1278.3	1277.0	1275.7	1274.4	1273.1
162.5°	1292.1	1294.0	1295.9	1296.9	1296.1	1294.6	1293.1	1291.6	1290.1	1289.0	1288.0
165°	1304.7	1306.2	1307.7	1308.4	1307.7	1306.2	1304.7	1303.2	1301.7	1301.1	1300.4
167.5°	1314.2	1316.1	1318.0	1319.0	1318.3	1316.8	1315.3	1313.8	1312.3	1311.7	1311.0
170°	1321.9	1323.8	1325.7	1326.7	1326.0	1324.5	1323.0	1321.5	1320.0	1319.6	1319.2
172.5°	1327.7	1329.6	1331.5	1332.5	1331.8	1330.3	1328.8	1327.3	1325.8	1325.4	1324.9
175°	1331.0	1333.2	1335.3	1336.4	1335.6	1334.1	1332.6	1331.1	1329.6	1329.2	1328.8
177.5°	1332.5	1334.4	1336.3	1337.3	1336.6	1335.1	1333.6	1332.1	1330.6	1330.4	1330.2
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

TEST NUMBER: P1029428

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	586.9	584.7	583.4	584.3	581.7	575.1	575.1	577.3	574.6	572.0	568.0
5°	603.2	598.8	596.2	595.7	589.6	579.0	576.8	574.6	568.9	562.8	556.2
7.5°	619.0	611.1	606.7	603.7	594.9	581.2	575.5	570.7	561.4	552.2	543.9
10°	632.2	620.8	615.5	610.7	599.3	582.1	572.9	564.1	552.2	540.3	529.8
12.5°	642.8	629.6	623.0	616.0	601.9	579.5	568.0	554.0	542.1	526.3	515.7
15°	660.4	633.1	627.0	620.4	605.9	575.1	561.0	545.2	528.9	507.8	496.4
17.5°	674.4	637.9	637.5	623.4	604.5	573.3	551.8	531.1	513.5	492.4	474.4
20°	682.8	645.4	638.4	623.9	600.1	561.4	539.0	516.2	497.3	471.8	453.7
22.5°	689.8	656.0	637.5	619.9	590.9	557.5	524.5	503.0	477.0	449.3	432.2
25°	692.5	658.2	638.8	618.6	584.3	546.1	508.7	485.4	456.4	431.3	408.0
27.5°	692.9	657.7	634.0	612.9	575.1	531.1	492.9	468.2	436.1	407.1	383.8
30°	688.5	652.9	631.4	608.5	566.3	517.5	473.5	446.3	412.0	382.9	358.8
32.5°	675.3	643.2	625.6	600.6	554.9	498.6	455.0	424.7	388.7	360.1	336.8
35°	653.3	631.4	612.0	588.7	539.9	481.0	436.6	401.0	364.5	337.2	315.2
37.5°	626.1	614.2	596.2	573.3	522.8	465.2	415.9	376.3	339.9	313.5	291.9
40°	589.1	592.2	574.6	554.0	502.5	443.6	389.1	351.3	317.0	292.4	271.3
42.5°	549.1	561.9	551.8	532.0	480.1	419.9	369.3	327.5	294.1	268.6	251.0
45°	506.0	528.0	521.9	507.4	456.8	394.8	341.2	300.7	271.3	246.6	231.3
47.5°	459.0	490.2	490.2	479.7	430.9	369.8	317.0	275.7	246.6	229.1	214.1
50°	411.1	446.3	452.0	444.9	401.8	341.2	287.5	250.2	225.1	208.0	197.0
52.5°	361.0	401.8	412.4	408.9	371.1	313.9	263.4	226.9	204.0	189.1	179.4
55°	313.0	360.5	372.0	373.3	338.1	284.0	236.5	204.4	182.5	172.3	164.0
57.5°	267.8	313.5	326.2	328.4	304.7	256.8	211.5	183.3	163.6	155.2	148.6
60°	229.1	267.3	284.0	288.9	268.2	225.1	188.2	160.9	146.0	138.1	131.9
62.5°	197.4	228.2	245.8	247.1	237.9	197.4	164.0	141.1	128.4	121.3	118.3
65°	166.6	194.3	204.9	210.2	202.7	171.0	141.6	122.7	112.6	106.4	103.3
67.5°	142.0	159.6	168.4	175.4	167.9	144.2	120.5	105.1	97.6	91.4	89.7
70°	116.5	131.0	137.6	144.6	138.1	120.0	102.9	88.8	82.2	77.4	75.2
72.5°	93.2	104.6	110.8	115.2	111.2	96.3	82.2	72.5	67.7	64.2	62.9
75°	73.9	81.8	85.3	88.4	86.6	75.2	66.4	58.5	54.1	51.0	50.1
77.5°	56.3	62.0	65.9	66.8	64.6	57.2	49.7	44.8	41.3	39.6	38.7
80°	40.0	43.5	45.7	47.0	44.8	41.8	36.5	33.0	29.9	27.7	27.3
82.5°	26.8	28.6	30.3	29.9	29.0	26.4	23.3	21.5	20.2	18.5	18.5
85°	15.4	15.8	16.7	17.1	16.7	14.9	13.2	12.3	11.4	10.1	10.1
87.5°	6.6	7.0	7.0	7.5	6.6	6.6	5.7	4.8	4.8	4.4	4.0
90°	14.2	12.5	11.6	10.4	8.1	5.7	3.4	1.0	3.4	5.7	8.1
92.5°	21.2	20.5	20.2	20.6	21.5	22.4	23.2	24.1	23.2	22.4	21.5
95°	33.1	31.6	30.8	34.3	41.4	48.5	55.5	62.6	55.5	48.5	41.4
97.5°	38.8	35.4	33.7	42.5	60.0	77.6	95.1	112.7	95.1	77.6	60.0
100°	44.0	40.3	38.5	53.2	82.5	111.8	141.2	170.5	141.2	111.8	82.5
102.5°	173.7	212.7	232.2	232.4	232.8	233.3	233.7	234.1	233.7	233.3	232.8
105°	234.1	292.6	321.8	318.6	312.2	305.7	299.3	292.9	299.3	305.7	312.2
107.5°	277.2	349.3	385.4	382.7	377.4	372.0	366.7	361.3	366.7	372.0	377.4
110°	354.3	416.2	447.1	444.8	440.3	435.8	431.3	426.8	431.3	435.8	440.3

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	500.4	504.0	505.8	503.9	500.0	496.2	492.3	488.5	492.3	496.2	500.0
115°	578.4	573.1	570.4	568.6	564.9	561.3	557.6	554.0	557.6	561.3	564.9
117.5°	635.6	631.9	630.1	628.0	623.7	619.4	615.2	610.9	615.2	619.4	623.7
120°	694.7	690.8	688.9	687.3	684.1	680.8	677.6	674.4	677.6	680.8	684.1
122.5°	750.2	745.9	743.8	742.1	738.7	735.2	731.8	728.4	731.8	735.2	738.7
125°	802.0	797.9	795.9	794.5	791.7	788.9	786.1	783.3	786.1	788.9	791.7
127.5°	851.7	848.5	846.9	845.4	842.4	839.4	836.4	833.4	836.4	839.4	842.4
130°	899.6	897.3	896.1	894.4	890.9	887.5	884.0	880.6	884.0	887.5	890.9
132.5°	944.8	942.5	941.3	939.9	937.1	934.4	931.6	928.8	931.6	934.4	937.1
135°	987.6	985.7	984.7	983.0	979.6	976.1	972.7	969.3	972.7	976.1	979.6
137.5°	1026.4	1024.3	1023.2	1021.9	1019.4	1016.8	1014.3	1011.7	1014.3	1016.8	1019.4
140°	1064.3	1062.0	1060.8	1059.9	1058.2	1056.5	1054.8	1053.1	1054.8	1056.5	1058.2
142.5°	1098.7	1095.9	1094.5	1093.8	1092.3	1090.8	1089.3	1087.8	1089.3	1090.8	1092.3
145°	1128.9	1125.2	1123.4	1123.5	1123.7	1124.0	1124.2	1124.4	1124.2	1124.0	1123.7
147.5°	1158.8	1155.1	1153.3	1153.6	1154.3	1154.9	1155.6	1156.2	1155.6	1154.9	1154.3
150°	1185.4	1182.0	1180.3	1181.0	1182.5	1184.0	1185.5	1187.0	1185.5	1184.0	1182.5
152.5°	1210.1	1206.9	1205.3	1206.2	1207.9	1209.6	1211.3	1213.0	1211.3	1209.6	1207.9
155°	1233.3	1230.7	1229.4	1230.4	1232.3	1234.2	1236.2	1238.1	1236.2	1234.2	1232.3
157.5°	1253.5	1251.6	1250.6	1251.5	1253.2	1254.9	1256.6	1258.3	1256.6	1254.9	1253.2
160°	1271.8	1270.5	1269.9	1270.5	1271.8	1273.1	1274.4	1275.7	1274.4	1273.1	1271.8
162.5°	1286.9	1285.8	1285.3	1285.9	1287.2	1288.5	1289.8	1291.1	1289.8	1288.5	1287.2
165°	1299.8	1299.1	1298.8	1299.4	1300.7	1302.0	1303.3	1304.6	1303.3	1302.0	1300.7
167.5°	1310.4	1309.7	1309.4	1310.0	1311.3	1312.6	1313.9	1315.2	1313.9	1312.6	1311.3
170°	1318.7	1318.3	1318.1	1318.7	1320.0	1321.3	1322.5	1323.8	1322.5	1321.3	1320.0
172.5°	1324.5	1324.0	1323.8	1324.4	1325.7	1327.0	1328.3	1329.6	1328.3	1327.0	1325.7
175°	1328.3	1327.9	1327.7	1328.4	1329.9	1331.4	1332.9	1334.4	1332.9	1331.4	1329.9
177.5°	1329.9	1329.7	1329.6	1330.4	1331.9	1333.4	1334.9	1336.4	1334.9	1333.4	1331.9
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	565.8	568.0	567.6	563.2	558.4	554.4	546.9	547.8	545.2	545.6	548.3
5°	551.8	551.8	550.0	543.9	535.9	531.5	523.2	521.0	515.7	515.3	514.8
7.5°	536.8	534.6	532.4	523.6	514.0	506.9	495.5	492.9	487.6	484.1	482.3
10°	519.2	516.2	511.8	501.7	489.8	481.0	469.1	465.6	455.5	451.1	448.5
12.5°	499.9	498.1	491.1	482.7	463.4	453.7	436.6	440.1	430.0	421.2	419.9
15°	480.5	474.0	470.0	456.4	433.1	428.7	415.0	408.0	398.8	391.7	391.7
17.5°	461.6	451.5	442.7	428.2	411.1	398.8	388.7	385.1	373.7	366.7	365.4
20°	436.6	425.2	423.0	402.3	390.4	376.8	367.1	358.3	350.0	346.9	344.7
22.5°	412.8	399.7	396.1	378.5	366.7	353.0	343.4	337.2	331.1	328.9	324.9
25°	387.3	379.4	374.2	355.2	342.1	329.3	322.7	318.3	312.6	312.2	309.5
27.5°	362.7	355.2	350.0	331.9	322.3	310.4	305.1	300.3	297.2	295.9	294.6
30°	341.6	333.3	327.1	313.9	302.0	292.4	288.0	284.9	283.1	280.9	280.5
32.5°	318.3	313.5	305.1	295.0	285.8	276.5	273.9	271.7	269.1	268.2	267.8
35°	298.5	291.9	286.7	275.2	271.3	263.4	260.3	258.5	255.0	254.1	253.2
37.5°	279.2	273.0	267.3	260.3	252.8	248.4	246.6	244.0	242.3	242.7	241.8
40°	259.8	255.0	250.6	243.1	238.7	236.5	233.0	230.4	229.5	229.9	229.5
42.5°	240.9	236.5	233.9	228.2	223.8	221.6	219.4	216.8	218.1	218.1	219.4
45°	223.8	219.8	218.1	213.7	211.0	207.5	205.3	204.9	206.6	206.2	206.2
47.5°	206.2	204.9	202.7	198.7	195.2	193.0	192.6	192.6	194.3	195.2	194.8
50°	192.6	189.9	187.3	184.2	181.6	180.7	179.4	180.3	182.0	182.0	182.9
52.5°	175.4	173.7	172.8	170.1	168.4	168.4	168.4	168.8	170.1	171.5	171.0
55°	160.5	159.2	158.3	157.0	154.8	155.2	154.8	155.6	157.0	158.3	159.2
57.5°	144.6	144.2	143.3	141.1	141.1	140.7	142.0	142.4	144.6	145.5	146.8
60°	130.6	129.3	129.3	127.5	127.5	127.5	128.8	130.1	131.9	132.3	133.2
62.5°	115.6	115.6	115.2	113.9	113.9	115.2	115.6	117.4	118.3	118.3	119.6
65°	101.6	101.1	100.7	101.1	101.6	101.6	102.9	103.8	104.6	105.1	105.5
67.5°	87.5	87.1	87.9	87.5	88.4	90.1	89.7	91.0	92.3	92.3	92.8
70°	74.3	75.2	74.7	75.6	75.2	76.1	77.4	77.8	77.8	78.3	79.6
72.5°	62.0	62.0	62.0	61.6	62.0	62.9	63.8	64.2	65.1	65.5	66.8
75°	50.1	50.1	49.2	50.1	50.1	51.0	51.9	51.9	51.9	52.8	54.1
77.5°	37.8	38.3	37.8	38.7	38.7	39.1	40.0	39.6	40.4	40.9	41.3
80°	27.7	27.3	27.3	27.3	27.7	27.7	28.6	29.0	29.0	30.3	29.5
82.5°	17.6	18.0	17.6	18.0	18.0	18.5	18.0	18.5	18.9	19.8	19.3
85°	10.1	9.7	9.7	10.1	9.7	9.7	10.1	9.7	10.1	9.7	10.1
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.6	2.6	2.6	2.2
90°	10.4	11.6	12.5	14.2	15.9	17.6	19.3	20.4	21.4	22.5	23.6
92.5°	20.6	20.2	20.5	21.2	21.8	22.5	23.1	23.5	24.0	24.4	24.9
95°	34.3	30.8	31.6	33.1	34.6	36.1	37.6	38.7	39.7	40.8	41.9
97.5°	42.5	33.7	35.4	38.8	42.3	45.7	49.1	49.7	50.4	51.0	51.7
100°	53.2	38.5	40.3	44.0	47.6	51.3	54.9	56.6	58.3	60.0	61.7
102.5°	232.4	232.2	212.7	173.7	134.8	95.8	56.8	59.2	61.5	63.9	66.2
105°	318.6	321.8	292.6	234.1	175.7	117.2	58.8	61.2	63.5	65.9	68.2
107.5°	382.7	385.4	349.3	277.2	205.0	132.9	60.7	63.1	65.4	67.8	70.1
110°	444.8	447.1	416.2	354.3	292.4	230.5	168.6	147.2	125.8	104.4	83.0

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	503.9	505.8	504.0	500.4	496.7	493.1	489.5	397.2	304.9	212.6	120.3
115°	568.6	570.4	573.1	578.4	583.8	589.1	594.5	495.4	396.2	297.1	198.0
117.5°	628.0	630.1	631.9	635.6	639.2	642.9	646.5	615.9	585.3	554.6	524.0
120°	687.3	688.9	690.8	694.7	698.5	702.4	706.2	708.8	711.4	713.9	716.5
122.5°	742.1	743.8	745.9	750.2	754.5	758.8	763.1	764.4	765.7	767.0	768.3
125°	794.5	795.9	797.9	802.0	806.1	810.1	814.2	815.7	817.2	818.7	820.2
127.5°	845.4	846.9	848.5	851.7	855.0	858.2	861.4	863.5	865.7	867.8	869.9
130°	894.4	896.1	897.3	899.6	902.0	904.3	906.7	909.1	911.4	913.8	916.1
132.5°	939.9	941.3	942.5	944.8	947.2	949.5	951.9	953.8	955.8	957.7	959.6
135°	983.0	984.7	985.7	987.6	989.5	991.5	993.4	995.5	997.7	999.8	1001.9
137.5°	1021.9	1023.2	1024.3	1026.4	1028.6	1030.7	1032.9	1035.0	1037.2	1039.3	1041.4
140°	1059.9	1060.8	1062.0	1064.3	1066.7	1069.0	1071.4	1073.3	1075.3	1077.2	1079.1
142.5°	1093.8	1094.5	1095.9	1098.7	1101.5	1104.3	1107.1	1108.8	1110.5	1112.2	1113.9
145°	1123.5	1123.4	1125.2	1128.9	1132.5	1136.2	1139.8	1141.3	1142.8	1144.3	1145.8
147.5°	1153.6	1153.3	1155.1	1158.8	1162.4	1166.1	1169.7	1170.8	1171.8	1172.9	1174.0
150°	1181.0	1180.3	1182.0	1185.4	1188.9	1192.3	1195.7	1197.0	1198.3	1199.6	1200.9
152.5°	1206.2	1205.3	1206.9	1210.1	1213.4	1216.6	1219.8	1221.1	1222.4	1223.7	1225.0
155°	1230.4	1229.4	1230.7	1233.3	1235.8	1238.4	1241.0	1242.3	1243.6	1244.9	1246.2
157.5°	1251.5	1250.6	1251.6	1253.5	1255.4	1257.4	1259.3	1260.8	1262.3	1263.8	1265.3
160°	1270.5	1269.9	1270.5	1271.8	1273.1	1274.4	1275.7	1277.0	1278.3	1279.6	1280.9
162.5°	1285.9	1285.3	1285.8	1286.9	1288.0	1289.0	1290.1	1291.6	1293.1	1294.6	1296.1
165°	1299.4	1298.8	1299.1	1299.8	1300.4	1301.1	1301.7	1303.2	1304.7	1306.2	1307.7
167.5°	1310.0	1309.4	1309.7	1310.4	1311.0	1311.7	1312.3	1313.8	1315.3	1316.8	1318.3
170°	1318.7	1318.1	1318.3	1318.7	1319.2	1319.6	1320.0	1321.5	1323.0	1324.5	1326.0
172.5°	1324.4	1323.8	1324.0	1324.5	1324.9	1325.4	1325.8	1327.3	1328.8	1330.3	1331.8
175°	1328.4	1327.7	1327.9	1328.3	1328.8	1329.2	1329.6	1331.1	1332.6	1334.1	1335.6
177.5°	1330.4	1329.6	1329.7	1329.9	1330.2	1330.4	1330.6	1332.1	1333.6	1335.1	1336.6
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

TEST NUMBER: P1029428

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	545.2	546.5	543.4	542.5	543.4	540.3	541.2	542.1	542.1	543.4	544.3
5°	513.5	511.8	508.7	507.8	506.9	508.2	507.4	508.7	509.1	512.2	512.6
7.5°	482.3	479.7	477.0	474.4	473.5	471.3	473.5	473.5	476.6	475.7	477.9
10°	445.4	444.9	441.4	440.1	438.3	434.8	439.7	438.3	440.5	444.5	445.4
12.5°	418.1	413.3	415.5	409.3	411.5	408.0	408.4	408.4	412.0	412.4	411.5
15°	392.2	388.2	382.5	379.9	378.5	376.8	382.5	382.9	380.3	386.5	384.3
17.5°	365.8	365.8	360.5	359.2	355.7	357.4	356.6	357.0	356.1	360.5	362.7
20°	342.9	340.7	339.0	339.4	335.0	334.1	333.3	334.1	337.2	340.3	341.2
22.5°	324.5	323.1	318.8	319.6	316.1	317.4	316.6	318.8	319.2	319.2	322.3
25°	306.9	305.1	305.6	303.8	302.5	302.5	301.2	302.5	304.2	305.1	305.6
27.5°	293.7	292.4	290.2	288.9	289.7	287.5	289.3	290.6	290.6	289.7	290.6
30°	277.9	278.7	278.7	274.3	276.1	275.2	276.5	277.4	277.4	277.9	277.0
32.5°	267.3	264.7	264.2	263.8	263.8	262.0	262.0	263.4	263.8	264.2	265.6
35°	253.2	253.2	251.0	252.4	250.6	251.0	250.6	251.0	251.9	250.6	251.9
37.5°	240.5	240.9	240.1	240.9	241.4	240.5	239.6	241.4	240.5	240.5	239.6
40°	229.5	229.1	229.5	229.5	229.5	229.9	229.1	229.1	229.1	228.2	227.3
42.5°	220.3	217.6	218.5	219.0	217.6	217.6	218.1	217.6	219.0	216.3	216.3
45°	207.1	206.2	206.6	206.6	207.5	206.2	207.1	207.5	206.2	205.8	204.9
47.5°	195.2	196.1	195.2	196.1	196.1	197.0	195.2	195.6	196.1	194.3	193.0
50°	183.3	183.3	184.7	184.2	184.7	183.8	183.8	183.3	183.8	182.9	181.6
52.5°	172.3	171.0	173.2	172.8	172.3	171.9	171.5	171.9	171.0	170.1	170.1
55°	158.7	158.7	160.0	160.5	160.5	159.6	158.7	159.2	158.7	158.3	157.8
57.5°	147.7	146.0	146.8	147.3	147.3	146.0	146.8	146.0	146.0	146.4	145.1
60°	133.7	133.7	132.8	134.1	134.1	133.2	133.2	133.7	132.8	132.3	131.9
62.5°	118.7	119.1	120.5	120.9	121.3	120.5	119.6	120.0	120.0	118.7	119.1
65°	106.0	106.8	108.6	108.2	107.3	107.7	106.8	107.3	106.0	106.4	105.1
67.5°	93.6	93.2	93.6	93.6	94.5	94.1	93.2	93.2	92.8	94.1	92.8
70°	80.5	80.5	80.5	80.5	80.9	81.3	80.5	79.6	80.0	79.1	78.7
72.5°	66.8	67.3	66.8	67.7	66.4	67.3	67.3	66.8	66.4	66.4	66.4
75°	54.1	55.0	53.6	54.1	53.6	54.5	54.1	54.1	53.2	52.8	53.2
77.5°	41.3	41.8	40.9	41.3	40.9	41.3	41.3	40.9	40.9	40.9	40.9
80°	29.5	29.9	29.5	29.0	28.6	29.5	28.6	29.0	29.5	29.0	29.9
82.5°	18.9	18.9	18.5	18.9	18.0	18.0	18.5	18.5	18.0	18.9	18.0
85°	9.2	9.2	10.1	9.2	8.8	8.8	8.8	9.2	8.8	9.7	9.2
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.6	1.8
90°	24.1	24.3	24.7	25.2	25.6	26.0	25.6	25.2	24.7	24.3	24.1
92.5°	25.1	25.2	25.4	25.6	25.8	26.0	25.8	25.6	25.4	25.2	25.1
95°	42.4	42.3	42.1	41.8	41.6	41.4	41.6	41.8	42.1	42.3	42.4
97.5°	52.0	52.1	52.3	52.6	52.8	53.0	52.8	52.6	52.3	52.1	52.0
100°	62.6	62.8	63.3	63.7	64.2	64.6	64.2	63.7	63.3	62.8	62.6
102.5°	67.4	67.7	68.4	69.0	69.7	70.3	69.7	69.0	68.4	67.7	67.4
105°	69.4	69.8	70.7	71.5	72.4	73.2	72.4	71.5	70.7	69.8	69.4
107.5°	71.3	71.7	72.6	73.5	74.3	75.2	74.3	73.5	72.6	71.7	71.3
110°	72.3	72.7	73.6	74.4	75.3	76.1	75.3	74.4	73.6	72.7	72.3



TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	74.2	74.5	75.2	75.8	76.5	77.1	76.5	75.8	75.2	74.5	74.2
115°	148.4	140.7	125.3	109.8	94.4	79.0	94.4	109.8	125.3	140.7	148.4
117.5°	508.7	480.7	424.6	368.5	312.4	256.3	312.4	368.5	424.6	480.7	508.7
120°	717.8	703.3	674.4	645.5	616.6	587.7	616.6	645.5	674.4	703.3	717.8
122.5°	768.9	769.0	769.2	769.4	769.6	769.8	769.6	769.4	769.2	769.0	768.9
125°	820.9	821.2	821.9	822.5	823.2	823.8	823.2	822.5	821.9	821.2	820.9
127.5°	871.0	871.1	871.3	871.6	871.8	872.0	871.8	871.6	871.3	871.1	871.0
130°	917.3	917.2	917.0	916.7	916.5	916.3	916.5	916.7	917.0	917.2	917.3
132.5°	960.6	960.5	960.3	960.0	959.8	959.6	959.8	960.0	960.3	960.5	960.6
135°	1003.0	1002.8	1002.4	1001.9	1001.5	1001.1	1001.5	1001.9	1002.4	1002.8	1003.0
137.5°	1042.5	1042.2	1041.5	1040.9	1040.2	1039.6	1040.2	1040.9	1041.5	1042.2	1042.5
140°	1080.1	1079.6	1078.5	1077.4	1076.4	1075.3	1076.4	1077.4	1078.5	1079.6	1080.1
142.5°	1114.8	1114.3	1113.2	1112.1	1111.1	1110.0	1111.1	1112.1	1113.2	1114.3	1114.8
145°	1146.6	1146.1	1145.0	1143.9	1142.8	1141.7	1142.8	1143.9	1145.0	1146.1	1146.6
147.5°	1174.5	1174.1	1173.2	1172.4	1171.5	1170.7	1171.5	1172.4	1173.2	1174.1	1174.5
150°	1201.5	1201.0	1199.9	1198.8	1197.8	1196.7	1197.8	1198.8	1199.9	1201.0	1201.5
152.5°	1225.6	1224.8	1223.3	1221.8	1220.3	1218.8	1220.3	1221.8	1223.3	1224.8	1225.6
155°	1246.8	1245.9	1244.2	1242.5	1240.8	1239.1	1240.8	1242.5	1244.2	1245.9	1246.8
157.5°	1266.0	1265.1	1263.4	1261.7	1260.0	1258.3	1260.0	1261.7	1263.4	1265.1	1266.0
160°	1281.5	1280.7	1279.2	1277.7	1276.2	1274.7	1276.2	1277.7	1279.2	1280.7	1281.5
162.5°	1296.9	1295.9	1294.0	1292.1	1290.1	1288.2	1290.1	1292.1	1294.0	1295.9	1296.9
165°	1308.4	1307.7	1306.2	1304.7	1303.2	1301.7	1303.2	1304.7	1306.2	1307.7	1308.4
167.5°	1319.0	1318.0	1316.1	1314.2	1312.3	1310.4	1312.3	1314.2	1316.1	1318.0	1319.0
170°	1326.7	1325.7	1323.8	1321.9	1320.0	1318.1	1320.0	1321.9	1323.8	1325.7	1326.7
172.5°	1332.5	1331.5	1329.6	1327.7	1325.7	1323.8	1325.7	1327.7	1329.6	1331.5	1332.5
175°	1336.4	1335.3	1333.2	1331.0	1328.9	1326.7	1328.9	1331.0	1333.2	1335.3	1336.4
177.5°	1337.3	1336.3	1334.4	1332.5	1330.6	1328.7	1330.6	1332.5	1334.4	1336.3	1337.3
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	543.0	546.5	545.2	540.3	546.1	546.1	550.0	550.0	554.9	556.6	559.2
5°	512.2	514.8	517.0	514.8	518.8	525.0	528.5	531.5	538.1	540.8	544.7
7.5°	479.2	484.1	486.3	486.3	492.9	499.9	506.9	511.3	520.6	524.1	528.0
10°	447.1	452.8	457.2	456.8	467.8	472.2	481.0	491.1	500.3	505.6	511.3
12.5°	413.3	416.4	422.5	431.3	433.9	441.9	452.0	464.7	481.4	486.3	494.6
15°	385.1	393.5	398.3	402.3	408.4	415.9	426.9	439.2	455.9	466.5	475.3
17.5°	361.4	372.4	375.5	374.6	382.5	393.9	406.7	415.9	430.9	443.6	452.0
20°	342.1	346.5	351.7	353.9	360.1	372.4	384.7	395.3	407.6	417.7	427.3
22.5°	322.7	326.2	330.6	334.6	339.4	346.5	358.3	371.5	383.4	393.1	404.0
25°	306.9	309.1	313.0	316.1	321.4	326.2	334.6	349.1	363.2	368.9	378.5
27.5°	291.5	293.3	295.9	299.4	302.0	306.9	314.4	326.2	340.7	346.5	359.6
30°	277.9	279.2	281.8	283.6	284.9	290.6	296.3	305.6	316.6	324.5	334.1
32.5°	265.1	266.4	269.1	269.5	271.3	274.3	279.6	288.0	297.6	304.2	312.6
35°	251.0	251.9	254.6	255.4	256.8	259.4	263.4	269.5	278.3	283.1	290.6
37.5°	240.1	239.6	241.4	242.7	244.5	245.8	247.1	253.2	259.8	264.2	270.0
40°	228.2	227.3	227.7	229.5	230.4	232.1	232.1	238.3	242.7	246.2	250.6
42.5°	216.3	215.9	215.0	215.9	216.8	217.2	217.6	222.0	226.4	229.5	234.3
45°	204.4	204.0	203.1	203.6	203.6	204.4	205.8	207.5	210.6	213.2	215.9
47.5°	193.5	192.6	191.3	190.8	191.7	191.7	191.7	193.5	196.5	197.4	200.0
50°	182.0	180.7	178.9	178.1	178.1	177.6	178.5	178.9	181.6	182.5	184.7
52.5°	169.7	168.8	167.1	165.3	165.8	164.9	165.3	165.8	166.6	167.9	169.3
55°	157.4	155.6	154.3	153.9	152.6	152.6	151.2	153.0	152.6	153.0	154.8
57.5°	145.5	143.8	141.6	140.7	139.4	138.9	138.1	137.6	138.1	139.4	140.7
60°	131.5	130.6	129.3	127.9	127.1	125.7	124.9	124.9	124.4	124.4	124.9
62.5°	117.8	117.4	115.6	115.2	114.3	113.4	112.1	111.2	111.2	112.1	112.6
65°	104.6	104.2	102.9	102.4	100.2	99.4	98.9	98.5	97.6	97.6	97.6
67.5°	92.3	91.0	91.0	88.8	87.1	86.2	85.3	84.9	84.9	84.9	85.3
70°	78.7	78.7	77.4	76.1	74.3	74.7	73.4	72.1	72.1	71.2	71.7
72.5°	65.5	65.1	63.8	63.3	62.0	60.7	59.8	60.7	59.4	58.9	59.4
75°	52.8	52.3	51.4	50.6	51.0	49.7	48.4	47.9	47.9	47.0	47.0
77.5°	40.4	41.3	39.6	39.1	38.3	37.4	36.9	36.5	36.5	36.5	37.4
80°	28.1	28.6	28.6	27.7	28.1	26.8	26.8	26.8	25.5	25.9	26.4
82.5°	18.0	18.0	17.6	18.0	17.6	17.6	17.1	17.1	16.7	16.7	17.1
85°	10.1	9.7	9.2	10.1	9.7	9.7	9.2	9.2	9.2	9.2	9.2
87.5°	2.2	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.5	3.5	3.5
90°	23.6	22.5	21.4	20.4	19.3	17.6	15.9	14.2	12.5	11.6	10.4
92.5°	24.9	24.4	24.0	23.5	23.1	22.5	21.8	21.2	20.5	20.2	20.6
95°	41.9	40.8	39.7	38.7	37.6	36.1	34.6	33.1	31.6	30.8	34.3
97.5°	51.7	51.0	50.4	49.7	49.1	45.7	42.3	38.8	35.4	33.7	42.5
100°	61.7	60.0	58.3	56.6	54.9	51.3	47.6	44.0	40.3	38.5	53.2
102.5°	66.2	63.9	61.5	59.2	56.8	95.8	134.8	173.7	212.7	232.2	232.4
105°	68.2	65.9	63.5	61.2	58.8	117.2	175.7	234.1	292.6	321.8	318.6
107.5°	70.1	67.8	65.4	63.1	60.7	132.9	205.0	277.2	349.3	385.4	382.7
110°	83.0	104.4	125.8	147.2	168.6	230.5	292.4	354.3	416.2	447.1	444.8

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	120.3	212.6	304.9	397.2	489.5	493.1	496.7	500.4	504.0	505.8	503.9
115°	198.0	297.1	396.2	495.4	594.5	589.1	583.8	578.4	573.1	570.4	568.6
117.5°	524.0	554.6	585.3	615.9	646.5	642.9	639.2	635.6	631.9	630.1	628.0
120°	716.5	713.9	711.4	708.8	706.2	702.4	698.5	694.7	690.8	688.9	687.3
122.5°	768.3	767.0	765.7	764.4	763.1	758.8	754.5	750.2	745.9	743.8	742.1
125°	820.2	818.7	817.2	815.7	814.2	810.1	806.1	802.0	797.9	795.9	794.5
127.5°	869.9	867.8	865.7	863.5	861.4	858.2	855.0	851.7	848.5	846.9	845.4
130°	916.1	913.8	911.4	909.1	906.7	904.3	902.0	899.6	897.3	896.1	894.4
132.5°	959.6	957.7	955.8	953.8	951.9	949.5	947.2	944.8	942.5	941.3	939.9
135°	1001.9	999.8	997.7	995.5	993.4	991.5	989.5	987.6	985.7	984.7	983.0
137.5°	1041.4	1039.3	1037.2	1035.0	1032.9	1030.7	1028.6	1026.4	1024.3	1023.2	1021.9
140°	1079.1	1077.2	1075.3	1073.3	1071.4	1069.0	1066.7	1064.3	1062.0	1060.8	1059.9
142.5°	1113.9	1112.2	1110.5	1108.8	1107.1	1104.3	1101.5	1098.7	1095.9	1094.5	1093.8
145°	1145.8	1144.3	1142.8	1141.3	1139.8	1136.2	1132.5	1128.9	1125.2	1123.4	1123.5
147.5°	1174.0	1172.9	1171.8	1170.8	1169.7	1166.1	1162.4	1158.8	1155.1	1153.3	1153.6
150°	1200.9	1199.6	1198.3	1197.0	1195.7	1192.3	1188.9	1185.4	1182.0	1180.3	1181.0
152.5°	1225.0	1223.7	1222.4	1221.1	1219.8	1216.6	1213.4	1210.1	1206.9	1205.3	1206.2
155°	1246.2	1244.9	1243.6	1242.3	1241.0	1238.4	1235.8	1233.3	1230.7	1229.4	1230.4
157.5°	1265.3	1263.8	1262.3	1260.8	1259.3	1257.4	1255.4	1253.5	1251.6	1250.6	1251.5
160°	1280.9	1279.6	1278.3	1277.0	1275.7	1274.4	1273.1	1271.8	1270.5	1269.9	1270.5
162.5°	1296.1	1294.6	1293.1	1291.6	1290.1	1289.0	1288.0	1286.9	1285.8	1285.3	1285.9
165°	1307.7	1306.2	1304.7	1303.2	1301.7	1301.1	1300.4	1299.8	1299.1	1298.8	1299.4
167.5°	1318.3	1316.8	1315.3	1313.8	1312.3	1311.7	1311.0	1310.4	1309.7	1309.4	1310.0
170°	1326.0	1324.5	1323.0	1321.5	1320.0	1319.6	1319.2	1318.7	1318.3	1318.1	1318.7
172.5°	1331.8	1330.3	1328.8	1327.3	1325.8	1325.4	1324.9	1324.5	1324.0	1323.8	1324.4
175°	1335.6	1334.1	1332.6	1331.1	1329.6	1329.2	1328.8	1328.3	1327.9	1327.7	1328.4
177.5°	1336.6	1335.1	1333.6	1332.1	1330.6	1330.4	1330.2	1329.9	1329.7	1329.6	1330.4
180°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6

TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	572.0	572.0	572.0	572.0
2.5°	561.4	561.4	568.0	575.1
5°	549.1	552.2	562.8	572.4
7.5°	537.3	542.5	555.7	568.0
10°	522.8	529.8	546.1	560.6
12.5°	508.7	515.3	534.2	550.5
15°	488.9	497.3	517.5	537.7
17.5°	469.1	477.5	502.1	525.8
20°	445.8	456.8	484.5	516.2
22.5°	424.3	437.9	468.7	494.2
25°	400.5	421.6	450.2	483.2
27.5°	379.4	400.5	429.5	463.0
30°	355.7	377.2	407.1	437.9
32.5°	332.8	352.6	381.6	419.4
35°	309.1	328.0	356.1	394.4
37.5°	287.5	306.0	336.8	372.0
40°	266.4	285.8	312.2	347.3
42.5°	246.6	263.8	287.5	322.7
45°	228.6	240.9	262.9	295.9
47.5°	209.7	220.7	240.9	273.9
50°	192.1	201.4	219.0	249.7
52.5°	175.0	182.9	199.2	223.8
55°	159.6	167.1	178.9	203.1
57.5°	143.8	149.5	160.9	180.3
60°	128.4	133.7	142.9	158.7
62.5°	113.0	117.4	126.2	138.9
65°	99.4	102.9	109.5	120.5
67.5°	86.2	88.4	93.6	102.4
70°	73.4	75.2	79.6	86.6
72.5°	59.8	61.6	66.4	71.2
75°	48.4	48.8	52.3	56.3
77.5°	37.8	37.4	40.0	43.1
80°	25.9	27.3	29.5	30.8
82.5°	17.6	18.0	18.9	19.8
85°	9.7	10.1	10.1	11.4
87.5°	4.0	4.4	4.4	4.8
90°	8.1	5.7	3.4	1.0
92.5°	21.5	22.4	23.2	24.1
95°	41.4	48.5	55.5	62.6
97.5°	60.0	77.6	95.1	112.7
100°	82.5	111.8	141.2	170.5
102.5°	232.8	233.3	233.7	234.1
105°	312.2	305.7	299.3	292.9
107.5°	377.4	372.0	366.7	361.3
110°	440.3	435.8	431.3	426.8



TEST NUMBER: P1029428

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	500.0	496.2	492.3	488.5
115°	564.9	561.3	557.6	554.0
117.5°	623.7	619.4	615.2	610.9
120°	684.1	680.8	677.6	674.4
122.5°	738.7	735.2	731.8	728.4
125°	791.7	788.9	786.1	783.3
127.5°	842.4	839.4	836.4	833.4
130°	890.9	887.5	884.0	880.6
132.5°	937.1	934.4	931.6	928.8
135°	979.6	976.1	972.7	969.3
137.5°	1019.4	1016.8	1014.3	1011.7
140°	1058.2	1056.5	1054.8	1053.1
142.5°	1092.3	1090.8	1089.3	1087.8
145°	1123.7	1124.0	1124.2	1124.4
147.5°	1154.3	1154.9	1155.6	1156.2
150°	1182.5	1184.0	1185.5	1187.0
152.5°	1207.9	1209.6	1211.3	1213.0
155°	1232.3	1234.2	1236.2	1238.1
157.5°	1253.2	1254.9	1256.6	1258.3
160°	1271.8	1273.1	1274.4	1275.7
162.5°	1287.2	1288.5	1289.8	1291.1
165°	1300.7	1302.0	1303.3	1304.6
167.5°	1311.3	1312.6	1313.9	1315.2
170°	1320.0	1321.3	1322.5	1323.8
172.5°	1325.7	1327.0	1328.3	1329.6
175°	1329.9	1331.4	1332.9	1334.4
177.5°	1331.9	1333.4	1334.9	1336.4
180°	1331.6	1331.6	1331.6	1331.6

(END OF REPORT)