

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: P1029422

Luminaire Tested: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029422
REPORT IS A COMBINATION OF REPORTS P985838 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-A1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

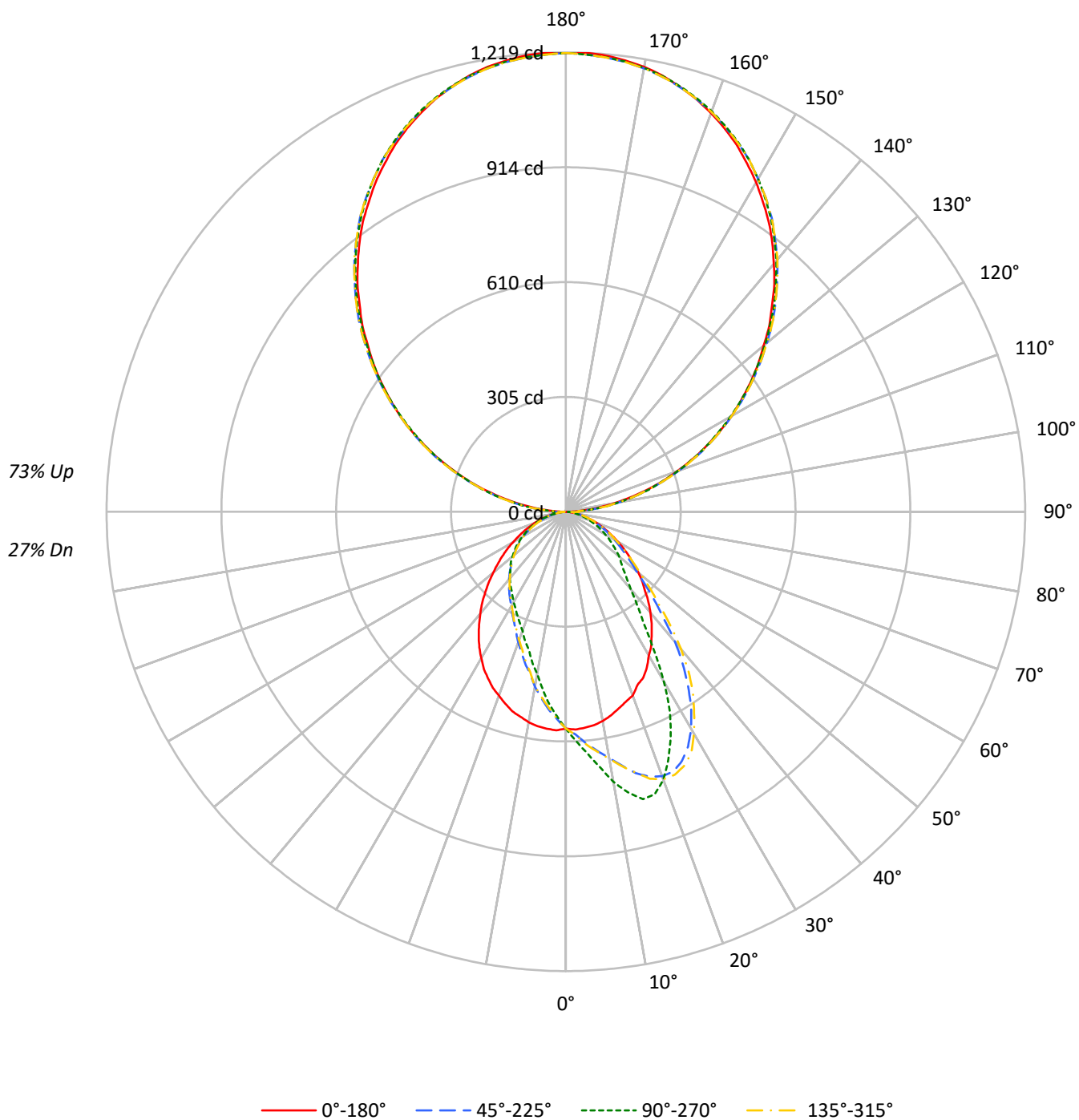
Lumens per Lamp: N/A
Luminaire Lumens: 4676.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35			27
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30			23
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26			20
3	77	69	62	56	69	62	56	51	48	44	41	36	34	31	25	23	22			17
4	71	61	53	48	63	55	48	43	43	39	35	32	30	27	22	21	19			15
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	20	18	17			13
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15			12
7	55	44	36	31	49	39	33	28	32	27	23	24	21	18	17	15	13			11
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12			10
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11			9
10	44	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9105	9105	9105	9105
5°	9126	9708	9161	7724
10°	9021	10597	9077	6367
15°	8802	11178	8924	5364
20°	8664	10495	8664	4662
25°	8389	9016	8427	4169
30°	7933	7088	8085	3777
35°	7532	4901	7657	3455
40°	7070	3701	7148	3199
45°	6497	3040	6604	2922
50°	6005	2670	6017	2675
55°	5441	2274	5478	2407
60°	4843	1899	4910	2101
65°	4305	1545	4383	1794
70°	3772	1212	3867	1447
75°	3166	880	3289	1049
80°	2467	557	2651	622
85°	1624	280	1752	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9412 cd/sqm

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.2
10°-20°	159.5	3.4
20°-30°	231.4	4.9
30°-40°	244.0	5.2
40°-50°	215.9	4.6
50°-60°	172.4	3.7
60°-70°	117.1	2.5
70°-80°	59.9	1.3
80°-90°	17.6	0.4
90°-100°	75.3	1.6
100°-110°	239.4	5.1
110°-120°	409.6	8.8
120°-130°	538.7	11.5
130°-140°	604.7	12.9
140°-150°	593.0	12.7
150°-160°	497.4	10.6
160°-170°	329.9	7.1
170°-180°	115.3	2.5
0°-30°	445.7	9.5
0°-40°	689.6	14.7
0°-60°	1077.9	23.1
0°-90°	1272.5	27.2
90°-120°	724.3	15.5
90°-150°	2460.8	52.6
90°-180°	3404.0	72.8
0°-180°	4676.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	575	575	575	575	575	
5°	576	642	578	511	576	55
15°	541	790	548	379	541	153
25°	486	658	488	304	486	222
35°	397	358	403	252	397	248
45°	298	216	302	207	298	231
55°	204	152	206	160	204	182
65°	121	93	123	108	121	120
75°	57	46	59	55	57	61
85°	12	12	12	9	12	13
90°	1	35	1	35	1	4
95°	53	64	53	64	53	60
105°	221	228	221	228	221	233
115°	411	411	411	411	411	407
125°	598	600	598	600	598	534
135°	774	783	774	783	774	598
145°	939	949	939	949	939	587
155°	1074	1082	1074	1082	1074	494
165°	1168	1169	1168	1169	1168	329
175°	1215	1211	1215	1211	1215	115
180°	1217	1217	1217	1217	1217	

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	578.3	579.6	581.8	582.2	586.7	590.2	594.2	594.2	595.5	595.1	591.5
5°	575.6	579.6	585.3	590.2	598.2	601.7	607.0	611.0	614.5	617.2	616.7
7.5°	571.2	578.3	586.7	595.9	606.6	612.7	620.3	627.3	632.2	636.6	639.7
10°	563.7	575.6	587.1	599.5	613.2	621.6	630.4	639.7	647.2	655.6	663.6
12.5°	553.5	570.7	584.9	601.3	618.1	627.3	641.5	648.6	663.1	684.4	690.1
15°	540.7	564.1	577.4	598.2	620.3	627.8	647.2	658.7	688.8	702.1	718.0
17.5°	528.7	554.8	572.5	596.4	618.1	632.6	651.7	675.1	700.3	719.3	737.0
20°	519.0	544.2	565.4	592.0	619.4	637.9	657.8	686.1	713.5	733.0	746.7
22.5°	496.9	529.2	553.9	583.6	616.7	642.4	661.4	692.3	721.9	733.9	745.8
25°	485.9	513.7	542.5	576.1	615.0	645.5	661.8	696.3	722.4	726.8	729.5
27.5°	465.5	496.9	530.5	569.0	614.5	640.2	660.9	692.3	713.1	710.0	702.1
30°	440.3	478.8	515.9	557.5	608.3	636.2	655.6	684.4	695.0	679.1	664.9
32.5°	421.8	458.0	499.1	547.3	601.3	627.8	646.8	669.3	671.5	642.8	618.9
35°	396.6	436.8	483.2	534.1	589.3	613.2	630.9	644.6	634.0	593.7	565.4
37.5°	374.0	413.8	463.3	515.0	573.0	596.4	610.5	612.7	586.7	551.3	509.7
40°	349.3	390.4	442.1	496.5	554.8	575.2	584.0	577.4	539.8	498.7	450.5
42.5°	324.5	365.2	420.9	476.6	531.8	549.1	552.6	534.5	488.5	440.3	384.6
45°	297.5	340.0	395.7	451.8	505.3	515.0	515.5	489.4	435.0	384.6	332.9
47.5°	275.4	314.8	370.0	426.2	471.3	477.9	475.3	445.2	386.0	329.4	284.3
50°	251.1	288.7	343.5	398.8	437.2	439.0	432.4	389.5	331.6	279.8	244.0
52.5°	225.0	263.0	313.4	366.5	401.0	398.3	385.5	339.5	285.2	242.3	214.9
55°	204.2	237.8	285.2	336.9	361.2	353.7	339.5	292.7	249.8	213.5	189.7
57.5°	181.3	210.9	257.3	302.4	316.5	309.5	295.3	251.6	211.8	184.4	168.4
60°	159.6	186.6	227.2	264.8	275.9	268.4	252.0	212.6	183.9	160.9	149.0
62.5°	139.7	163.1	197.2	231.7	236.1	228.6	214.4	182.6	157.8	139.7	130.9
65°	121.1	143.2	170.6	196.7	200.7	192.8	178.2	155.2	134.4	122.9	114.5
67.5°	103.0	120.7	145.0	164.0	166.2	158.7	146.8	128.2	115.4	103.0	96.8
70°	87.1	100.4	119.4	134.8	135.7	128.7	122.5	105.7	95.9	87.1	82.2
72.5°	71.6	80.9	95.5	107.0	107.4	103.0	97.3	86.7	78.3	72.1	67.2
75°	56.6	64.5	73.4	83.6	83.1	79.6	75.2	68.5	61.5	57.5	55.3
77.5°	43.3	48.2	55.3	61.9	61.9	60.1	57.5	52.6	48.2	44.2	42.0
80°	30.9	34.0	39.8	42.0	42.9	42.4	40.2	36.7	34.9	31.8	30.9
82.5°	19.9	22.1	24.8	27.0	28.3	27.4	27.0	25.2	22.5	21.7	20.8
85°	11.5	12.4	13.7	15.0	15.5	15.0	15.9	14.6	13.3	13.3	12.8
87.5°	4.9	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	1.0	3.8	6.5	9.3	12.0	13.4	15.9	20.9	26.0	31.0	36.0
92.5°	22.6	24.4	26.2	28.1	29.9	30.8	30.9	31.1	31.4	31.6	31.8
95°	53.4	55.7	58.0	60.3	62.6	63.7	63.9	64.4	64.8	65.3	65.7
97.5°	89.4	91.4	93.5	95.5	97.6	98.6	99.1	100.0	100.9	101.8	102.7
100°	130.5	132.3	134.1	136.0	137.8	138.7	139.0	139.7	140.4	141.1	141.8
102.5°	173.6	175.0	176.4	177.7	179.1	179.8	180.3	181.2	182.1	183.0	183.9
105°	220.9	221.6	222.3	223.0	223.7	224.0	224.2	224.7	225.1	225.6	226.0
107.5°	268.1	269.0	269.9	270.8	271.7	272.2	272.2	272.2	272.2	272.2	272.2
110°	313.3	314.7	316.1	317.4	318.8	319.5	319.5	319.5	319.5	319.5	319.5

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	362.6	364.0	365.4	366.7	368.1	368.8	368.7	368.5	368.2	368.0	367.8
115°	410.9	412.3	413.7	415.0	416.4	417.1	416.9	416.4	415.9	415.5	415.0
117.5°	459.2	461.0	462.8	464.7	466.5	467.4	466.8	465.7	464.6	463.4	462.3
120°	507.5	509.3	511.1	513.0	514.8	515.7	514.8	513.0	511.1	509.3	507.5
122.5°	551.7	554.0	556.2	558.5	560.8	561.9	561.3	560.2	559.1	557.9	556.8
125°	597.9	599.9	602.0	604.0	606.1	607.1	606.8	606.1	605.4	604.8	604.1
127.5°	643.1	645.6	648.1	650.6	653.1	654.4	653.9	653.0	652.1	651.2	650.3
130°	685.2	688.2	691.2	694.1	697.1	698.6	698.4	697.9	697.4	697.0	696.5
132.5°	732.5	734.8	737.0	739.3	741.6	742.7	742.8	743.1	743.3	743.6	743.8
135°	773.6	776.1	778.6	781.1	783.6	784.9	785.1	785.6	786.0	786.5	786.9
137.5°	818.8	820.8	822.9	824.9	827.0	828.0	828.2	828.7	829.2	829.6	830.1
140°	858.8	860.9	862.9	865.0	867.1	868.1	868.7	869.8	870.9	872.1	873.2
142.5°	899.9	902.0	904.0	906.1	908.2	909.2	909.5	910.2	910.9	911.6	912.3
145°	939.0	940.6	942.2	943.8	945.4	946.2	946.9	948.2	949.6	950.9	952.3
147.5°	973.9	975.9	978.0	980.0	982.1	983.1	983.6	984.5	985.4	986.4	987.3
150°	1009.9	1011.3	1012.6	1014.0	1015.3	1016.0	1016.5	1017.4	1018.3	1019.2	1020.1
152.5°	1041.7	1043.1	1044.5	1045.8	1047.2	1047.9	1048.5	1049.6	1050.7	1051.9	1053.0
155°	1073.5	1074.2	1074.9	1075.6	1076.3	1076.6	1076.9	1077.6	1078.3	1079.0	1079.7
157.5°	1101.3	1101.7	1102.2	1102.6	1103.1	1103.3	1103.5	1104.0	1104.5	1104.9	1105.4
160°	1125.9	1126.4	1126.8	1127.3	1127.8	1128.0	1128.1	1128.3	1128.6	1128.8	1129.0
162.5°	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.6	1148.9	1149.1	1149.4	1149.6
165°	1168.1	1167.9	1167.6	1167.4	1167.1	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0
167.5°	1185.5	1184.8	1184.1	1183.4	1182.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4
170°	1198.9	1198.2	1197.5	1196.8	1196.1	1195.8	1195.7	1195.5	1195.2	1195.0	1194.8
172.5°	1208.1	1207.4	1206.7	1206.0	1205.3	1205.0	1204.9	1204.7	1204.4	1204.2	1204.0
175°	1215.3	1214.6	1213.9	1213.2	1212.5	1212.2	1212.0	1211.5	1211.1	1210.6	1210.2
177.5°	1219.4	1218.7	1218.0	1217.3	1216.6	1216.3	1216.1	1215.6	1215.2	1214.7	1214.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	597.7	598.2	599.0	603.5	605.7	606.1	604.3	608.3	609.7	608.3	607.4
5°	626.0	628.7	634.0	639.7	639.3	639.7	642.4	645.0	645.9	642.4	643.7
7.5°	650.8	656.1	661.8	670.7	670.7	675.1	676.9	679.1	684.4	681.7	680.8
10°	679.1	686.1	696.7	710.9	711.3	715.8	720.2	727.3	729.5	727.7	728.6
12.5°	714.4	728.1	729.0	744.5	751.6	752.5	759.5	758.2	762.6	762.6	770.1
15°	729.9	751.1	763.1	778.1	782.5	777.2	783.0	789.1	789.6	789.6	789.1
17.5°	757.8	766.2	778.1	786.1	787.8	787.8	788.3	790.9	789.1	785.6	788.3
20°	763.5	767.0	771.5	770.6	771.5	767.0	762.6	758.2	758.6	756.4	763.1
22.5°	752.9	752.0	741.8	735.2	735.2	726.4	718.0	714.0	710.0	711.3	713.5
25°	726.4	712.7	700.3	690.6	688.3	674.2	662.7	659.2	652.5	657.8	658.7
27.5°	683.9	668.5	648.6	640.2	628.7	622.9	615.0	604.3	590.6	598.6	597.3
30°	638.4	615.4	599.0	578.7	560.6	559.3	544.2	526.5	519.5	519.5	523.4
32.5°	587.5	557.0	533.2	504.4	486.8	479.2	461.1	443.4	447.4	434.1	439.0
35°	528.3	488.1	458.0	430.2	416.9	408.1	384.6	374.9	364.3	358.1	369.6
37.5°	471.7	425.3	386.8	356.3	351.5	335.6	319.6	313.4	307.3	309.9	309.5
40°	402.8	361.6	327.2	303.3	294.9	287.4	276.8	269.2	265.3	267.5	267.9
42.5°	340.4	305.9	280.3	263.5	256.4	251.1	245.8	239.6	238.3	238.3	240.1
45°	292.2	263.9	246.7	233.0	229.0	225.0	221.0	218.4	217.5	215.7	217.1
47.5°	253.8	231.2	220.6	210.4	206.0	205.1	201.6	200.3	198.5	198.1	198.5
50°	221.5	207.3	197.6	191.9	188.8	187.4	185.7	183.0	182.1	184.4	183.5
52.5°	198.9	185.7	180.4	174.6	172.9	171.1	168.4	168.9	168.4	167.6	167.6
55°	176.4	168.0	162.7	158.3	157.8	156.1	153.9	153.0	152.5	151.6	153.0
57.5°	158.3	151.6	146.8	142.8	141.0	141.0	138.8	137.1	137.1	136.6	137.1
60°	140.1	133.5	130.4	126.4	125.1	124.7	123.3	122.5	121.1	121.1	121.1
62.5°	123.3	118.0	114.5	111.0	111.4	109.2	107.4	106.5	106.5	107.0	107.0
65°	107.4	103.9	99.5	96.4	95.5	95.1	94.2	93.7	92.4	93.3	93.3
67.5°	92.8	88.0	85.3	84.0	82.7	82.2	81.3	80.5	80.0	79.6	80.5
70°	78.3	74.3	72.1	71.2	69.9	69.4	69.0	67.6	68.1	68.5	69.0
72.5°	65.0	61.5	61.0	58.4	58.4	58.4	56.6	57.5	57.0	56.1	57.0
75°	51.3	49.5	48.6	47.3	47.7	47.3	46.9	45.5	45.5	46.0	46.4
77.5°	40.7	38.9	38.5	37.1	36.3	37.1	36.3	35.8	35.8	36.3	36.3
80°	30.1	29.2	27.9	27.9	27.9	27.4	27.4	27.4	27.0	26.5	27.0
82.5°	19.9	19.9	19.5	19.0	19.5	18.6	19.0	19.0	19.0	19.0	19.0
85°	12.8	12.4	12.4	11.9	11.9	11.9	12.4	11.5	11.5	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°	35.5	35.1	34.6	34.1	33.9	34.0	34.2	34.5	34.7	34.9	34.7
92.5°	32.0	32.3	32.5	32.8	32.9	32.9	32.9	32.9	32.9	32.9	32.9
95°	65.7	65.7	65.7	65.7	65.7	65.5	65.0	64.6	64.1	63.7	64.1
97.5°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7
100°	141.8	141.8	141.8	141.8	141.8	141.7	141.4	141.2	140.9	140.7	140.9
102.5°	184.1	184.3	184.6	184.8	184.9	184.8	184.6	184.3	184.1	183.9	184.1
105°	226.5	226.9	227.4	227.9	228.1	228.1	228.1	228.1	228.1	228.1	228.1
107.5°	272.4	272.7	272.9	273.2	273.3	272.7	271.6	270.4	269.3	268.1	269.3
110°	319.5	319.5	319.5	319.5	319.5	319.2	318.5	317.8	317.1	316.4	317.1

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	367.1	366.4	365.7	365.0	364.7	364.5	364.0	363.5	363.1	362.6	363.1
115°	414.8	414.6	414.3	414.1	414.0	413.7	413.0	412.3	411.6	410.9	411.6
117.5°	461.6	460.9	460.2	459.5	459.2	458.9	458.2	457.5	456.8	456.1	456.8
120°	507.5	507.5	507.5	507.5	507.5	507.2	506.5	505.8	505.1	504.4	505.1
122.5°	556.1	555.4	554.7	554.0	553.7	553.5	553.0	552.6	552.1	551.7	552.1
125°	603.4	602.7	602.0	601.3	601.0	600.9	600.7	600.4	600.2	600.0	600.2
127.5°	649.4	648.5	647.6	646.7	646.2	645.9	645.2	644.5	643.8	643.1	643.8
130°	696.1	695.6	695.2	694.7	694.5	694.0	693.1	692.2	691.3	690.4	691.3
132.5°	742.6	741.5	740.3	739.2	738.6	738.3	737.6	736.9	736.3	735.6	736.3
135°	786.7	786.5	786.2	786.0	785.9	785.6	784.9	784.2	783.5	782.8	783.5
137.5°	829.9	829.6	829.4	829.1	829.0	828.5	827.6	826.7	825.8	824.9	825.8
140°	873.2	873.2	873.2	873.2	873.2	872.7	871.8	870.9	870.0	869.1	870.0
142.5°	912.5	912.7	913.0	913.2	913.3	912.8	911.9	911.0	910.1	909.2	910.1
145°	952.5	952.7	953.0	953.2	953.3	952.8	951.9	951.0	950.1	949.2	950.1
147.5°	987.7	988.2	988.6	989.1	989.3	988.8	987.9	987.0	986.1	985.2	986.1
150°	1020.8	1021.5	1022.2	1022.9	1023.2	1022.9	1022.2	1021.5	1020.8	1020.1	1020.8
152.5°	1053.9	1054.8	1055.7	1056.6	1057.1	1056.6	1055.7	1054.8	1053.9	1053.0	1053.9
155°	1080.8	1082.0	1083.1	1084.2	1084.8	1084.5	1083.8	1083.1	1082.5	1081.8	1082.5
157.5°	1107.0	1108.6	1110.2	1111.8	1112.6	1112.0	1110.9	1109.7	1108.6	1107.4	1108.6
160°	1130.4	1131.8	1133.1	1134.5	1135.2	1134.7	1133.8	1132.9	1132.0	1131.1	1132.0
162.5°	1151.2	1152.8	1154.4	1156.0	1156.8	1156.2	1155.1	1153.9	1152.8	1151.6	1152.8
165°	1168.6	1170.2	1171.8	1173.4	1174.2	1173.6	1172.5	1171.4	1170.2	1169.1	1170.2
167.5°	1184.0	1185.6	1187.2	1188.8	1189.6	1189.0	1187.9	1186.8	1185.6	1184.5	1185.6
170°	1196.4	1198.0	1199.6	1201.2	1202.0	1201.3	1199.9	1198.6	1197.2	1195.8	1197.2
172.5°	1205.6	1207.2	1208.8	1210.4	1211.2	1210.5	1209.1	1207.8	1206.4	1205.0	1206.4
175°	1211.8	1213.4	1215.0	1216.6	1217.4	1216.7	1215.3	1214.0	1212.6	1211.2	1212.6
177.5°	1215.7	1217.1	1218.4	1219.8	1220.5	1219.8	1218.4	1217.1	1215.7	1214.3	1215.7
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	609.7	606.6	603.9	604.3	606.6	604.8	600.4	594.6	592.4	589.8	592.4
5°	646.3	643.7	638.4	638.8	637.5	635.7	628.7	619.8	619.8	612.7	611.9
7.5°	682.6	678.6	675.1	674.2	669.3	665.8	659.6	647.2	642.4	634.0	629.1
10°	723.3	720.2	716.2	711.3	708.7	702.5	692.3	674.2	665.4	653.9	645.5
12.5°	764.4	763.9	755.1	745.4	744.9	735.2	728.1	703.8	691.9	676.4	656.5
15°	790.5	788.3	783.4	778.5	779.9	769.3	753.3	724.6	716.6	698.1	676.9
17.5°	790.0	790.0	788.7	787.8	786.5	783.4	774.6	755.5	742.7	719.3	699.4
20°	764.8	770.6	771.9	771.5	775.9	778.1	777.7	765.7	755.5	734.8	714.4
22.5°	714.4	727.7	733.4	737.0	746.3	751.1	762.6	758.2	755.5	740.1	722.8
25°	667.6	672.0	689.2	690.1	702.9	714.9	726.4	733.9	743.6	737.9	723.3
27.5°	607.0	617.2	629.5	638.8	641.5	665.8	684.8	699.0	721.1	722.8	718.0
30°	538.5	543.3	563.7	576.1	590.2	607.9	635.3	659.6	679.5	697.6	703.8
32.5°	454.9	474.8	486.8	501.8	514.2	545.5	579.1	610.5	633.5	664.0	677.3
35°	378.4	393.9	414.2	420.4	443.0	469.5	513.3	553.5	588.4	619.4	646.3
37.5°	315.2	327.6	349.3	359.0	372.2	406.3	443.0	492.9	534.9	573.0	606.6
40°	271.9	281.2	297.5	300.6	311.7	342.6	372.2	419.1	474.8	526.1	562.8
42.5°	242.3	246.7	257.7	261.7	268.8	289.6	316.1	360.3	412.0	465.1	516.8
45°	221.0	224.1	230.8	234.3	243.2	252.4	274.1	309.5	350.1	403.6	459.3
47.5°	202.0	206.0	208.7	210.9	215.7	225.9	240.1	266.1	305.0	354.1	408.1
50°	186.1	187.4	192.3	192.8	195.8	202.5	215.7	231.7	262.6	302.4	354.6
52.5°	170.2	171.5	174.6	177.7	179.0	184.4	193.2	206.5	229.4	260.8	307.3
55°	154.3	156.1	159.2	161.4	162.7	167.1	172.4	185.2	203.4	225.5	263.5
57.5°	138.4	142.4	143.2	144.6	146.8	151.6	156.5	164.0	178.2	198.5	226.4
60°	123.3	124.7	127.8	129.1	131.3	134.0	140.1	145.9	156.1	172.0	197.2
62.5°	107.9	111.0	112.3	113.6	115.4	118.5	122.5	128.7	137.5	150.3	170.2
65°	94.6	95.1	97.7	99.5	101.2	103.5	107.4	113.2	118.5	130.4	145.0
67.5°	81.8	82.7	83.6	85.3	87.5	89.7	93.3	96.4	103.0	111.0	122.5
70°	69.4	69.4	71.6	72.9	72.5	75.2	77.8	81.3	86.2	93.7	103.0
72.5°	58.4	57.9	59.7	60.1	61.0	62.8	64.5	68.1	70.7	76.5	83.6
75°	46.4	47.3	48.2	48.2	49.5	50.8	52.6	54.4	57.5	61.0	66.3
77.5°	36.7	36.7	37.6	38.0	39.3	38.9	40.7	42.4	44.7	47.7	51.7
80°	27.0	27.9	27.9	27.9	28.3	28.7	30.5	31.8	33.2	35.4	37.1
82.5°	19.0	19.0	19.9	19.9	19.9	20.8	20.8	21.2	22.1	23.4	24.8
85°	11.9	11.9	11.9	12.4	11.9	12.4	13.3	12.8	13.3	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°	34.5	34.2	34.0	33.9	34.1	34.6	35.1	35.5	36.0	31.0	26.0
92.5°	32.9	32.9	32.9	32.9	32.8	32.5	32.3	32.0	31.8	31.6	31.4
95°	64.6	65.0	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.3	64.8
97.5°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	101.8	100.9
100°	141.2	141.4	141.7	141.8	141.8	141.8	141.8	141.8	141.8	141.1	140.4
102.5°	184.3	184.6	184.8	184.9	184.8	184.6	184.3	184.1	183.9	183.0	182.1
105°	228.1	228.1	228.1	228.1	227.9	227.4	226.9	226.5	226.0	225.6	225.1
107.5°	270.4	271.6	272.7	273.3	273.2	272.9	272.7	272.4	272.2	272.2	272.2
110°	317.8	318.5	319.2	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	363.5	364.0	364.5	364.7	365.0	365.7	366.4	367.1	367.8	368.0	368.2
115°	412.3	413.0	413.7	414.0	414.1	414.3	414.6	414.8	415.0	415.5	415.9
117.5°	457.5	458.2	458.9	459.2	459.5	460.2	460.9	461.6	462.3	463.4	464.6
120°	505.8	506.5	507.2	507.5	507.5	507.5	507.5	507.5	507.5	509.3	511.1
122.5°	552.6	553.0	553.5	553.7	554.0	554.7	555.4	556.1	556.8	557.9	559.1
125°	600.4	600.7	600.9	601.0	601.3	602.0	602.7	603.4	604.1	604.8	605.4
127.5°	644.5	645.2	645.9	646.2	646.7	647.6	648.5	649.4	650.3	651.2	652.1
130°	692.2	693.1	694.0	694.5	694.7	695.2	695.6	696.1	696.5	697.0	697.4
132.5°	736.9	737.6	738.3	738.6	739.2	740.3	741.5	742.6	743.8	743.6	743.3
135°	784.2	784.9	785.6	785.9	786.0	786.2	786.5	786.7	786.9	786.5	786.0
137.5°	826.7	827.6	828.5	829.0	829.1	829.4	829.6	829.9	830.1	829.6	829.2
140°	870.9	871.8	872.7	873.2	873.2	873.2	873.2	873.2	873.2	872.1	870.9
142.5°	911.0	911.9	912.8	913.3	913.2	913.0	912.7	912.5	912.3	911.6	910.9
145°	951.0	951.9	952.8	953.3	953.2	953.0	952.7	952.5	952.3	950.9	949.6
147.5°	987.0	987.9	988.8	989.3	989.1	988.6	988.2	987.7	987.3	986.4	985.4
150°	1021.5	1022.2	1022.9	1023.2	1022.9	1022.2	1021.5	1020.8	1020.1	1019.2	1018.3
152.5°	1054.8	1055.7	1056.6	1057.1	1056.6	1055.7	1054.8	1053.9	1053.0	1051.9	1050.7
155°	1083.1	1083.8	1084.5	1084.8	1084.2	1083.1	1082.0	1080.8	1079.7	1079.0	1078.3
157.5°	1109.7	1110.9	1112.0	1112.6	1111.8	1110.2	1108.6	1107.0	1105.4	1104.9	1104.5
160°	1132.9	1133.8	1134.7	1135.2	1134.5	1133.1	1131.8	1130.4	1129.0	1128.8	1128.6
162.5°	1153.9	1155.1	1156.2	1156.8	1156.0	1154.4	1152.8	1151.2	1149.6	1149.4	1149.1
165°	1171.4	1172.5	1173.6	1174.2	1173.4	1171.8	1170.2	1168.6	1167.0	1167.0	1167.0
167.5°	1186.8	1187.9	1189.0	1189.6	1188.8	1187.2	1185.6	1184.0	1182.4	1182.4	1182.4
170°	1198.6	1199.9	1201.3	1202.0	1201.2	1199.6	1198.0	1196.4	1194.8	1195.0	1195.2
172.5°	1207.8	1209.1	1210.5	1211.2	1210.4	1208.8	1207.2	1205.6	1204.0	1204.2	1204.4
175°	1214.0	1215.3	1216.7	1217.4	1216.6	1215.0	1213.4	1211.8	1210.2	1210.6	1211.1
177.5°	1217.1	1218.4	1219.8	1220.5	1219.8	1218.4	1217.1	1215.7	1214.3	1214.7	1215.2
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	590.2	588.0	586.7	587.5	584.9	578.3	578.3	580.5	577.8	575.2	571.2
5°	606.6	602.1	599.5	599.0	592.9	582.2	580.0	577.8	572.1	565.9	559.3
7.5°	622.5	614.5	610.1	607.0	598.2	584.5	578.7	573.8	564.6	555.3	546.9
10°	635.7	624.2	618.9	614.1	602.6	585.3	576.1	567.2	555.3	543.3	532.7
12.5°	646.3	633.1	626.5	619.4	605.2	582.7	571.2	557.0	545.1	529.2	518.6
15°	664.0	636.6	630.4	623.8	609.2	578.3	564.1	548.2	531.8	510.6	499.1
17.5°	678.2	641.5	641.0	626.9	607.9	576.5	554.8	534.1	516.4	495.2	477.0
20°	686.6	649.0	641.9	627.3	603.5	564.6	542.0	519.0	500.0	474.4	456.2
22.5°	693.7	659.6	641.0	623.4	594.2	560.6	527.4	505.8	479.7	451.8	434.6
25°	696.3	661.8	642.4	622.0	587.5	549.1	511.5	488.1	458.9	433.7	410.3
27.5°	696.7	661.4	637.5	616.3	578.3	534.1	495.6	470.8	438.6	409.4	386.0
30°	692.3	656.5	634.9	611.9	569.4	520.3	476.1	448.7	414.2	385.1	360.8
32.5°	679.1	646.8	629.1	603.9	557.9	501.3	457.6	427.1	390.8	362.1	338.6
35°	657.0	634.9	615.4	592.0	542.9	483.7	439.0	403.2	366.5	339.1	317.0
37.5°	629.5	617.6	599.5	576.5	525.7	467.7	418.2	378.4	341.7	315.2	293.6
40°	592.4	595.5	577.8	557.0	505.3	446.1	391.3	353.2	318.8	294.0	272.8
42.5°	552.2	565.0	554.8	534.9	482.8	422.2	371.4	329.4	295.8	270.1	252.4
45°	508.9	531.0	524.8	510.2	459.3	397.0	343.1	302.4	272.8	248.0	232.5
47.5°	461.6	492.9	492.9	482.3	433.3	371.8	318.8	277.2	248.0	230.3	215.3
50°	413.4	448.7	454.5	447.4	404.1	343.1	289.1	251.6	226.4	209.1	198.1
52.5°	363.0	404.1	414.7	411.2	373.1	315.7	264.8	228.1	205.1	190.1	180.4
55°	314.8	362.5	374.0	375.3	340.0	285.6	237.8	205.6	183.5	173.3	164.9
57.5°	269.2	315.2	328.0	330.2	306.4	258.2	212.6	184.4	164.5	156.1	149.4
60°	230.3	268.8	285.6	290.5	269.7	226.4	189.2	161.8	146.8	138.8	132.6
62.5°	198.5	229.4	247.1	248.5	239.2	198.5	164.9	141.9	129.1	122.0	118.9
65°	167.6	195.4	206.0	211.3	203.8	172.0	142.4	123.3	113.2	107.0	103.9
67.5°	142.8	160.5	169.3	176.4	168.9	145.0	121.1	105.7	98.1	92.0	90.2
70°	117.2	131.7	138.4	145.5	138.8	120.7	103.5	89.3	82.7	77.8	75.6
72.5°	93.7	105.2	111.4	115.8	111.9	96.8	82.7	72.9	68.1	64.5	63.2
75°	74.3	82.2	85.8	88.9	87.1	75.6	66.8	58.8	54.4	51.3	50.4
77.5°	56.6	62.3	66.3	67.2	65.0	57.5	50.0	45.1	41.6	39.8	38.9
80°	40.2	43.8	46.0	47.3	45.1	42.0	36.7	33.2	30.1	27.9	27.4
82.5°	27.0	28.7	30.5	30.1	29.2	26.5	23.4	21.7	20.3	18.6	18.6
85°	15.5	15.9	16.8	17.2	16.8	15.0	13.3	12.4	11.5	10.2	10.2
87.5°	6.6	7.1	7.1	7.5	6.6	6.6	5.7	4.9	4.9	4.4	4.0
90°	20.9	15.9	13.4	12.0	9.3	6.5	3.8	1.0	3.8	6.5	9.3
92.5°	31.1	30.9	30.8	29.9	28.1	26.2	24.4	22.6	24.4	26.2	28.1
95°	64.4	63.9	63.7	62.6	60.3	58.0	55.7	53.4	55.7	58.0	60.3
97.5°	100.0	99.1	98.6	97.6	95.5	93.5	91.4	89.4	91.4	93.5	95.5
100°	139.7	139.0	138.7	137.8	136.0	134.1	132.3	130.5	132.3	134.1	136.0
102.5°	181.2	180.3	179.8	179.1	177.7	176.4	175.0	173.6	175.0	176.4	177.7
105°	224.7	224.2	224.0	223.7	223.0	222.3	221.6	220.9	221.6	222.3	223.0
107.5°	272.2	272.2	272.2	271.7	270.8	269.9	269.0	268.1	269.0	269.9	270.8
110°	319.5	319.5	319.5	318.8	317.4	316.1	314.7	313.3	314.7	316.1	317.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	368.5	368.7	368.8	368.1	366.7	365.4	364.0	362.6	364.0	365.4	366.7
115°	416.4	416.9	417.1	416.4	415.0	413.7	412.3	410.9	412.3	413.7	415.0
117.5°	465.7	466.8	467.4	466.5	464.7	462.8	461.0	459.2	461.0	462.8	464.7
120°	513.0	514.8	515.7	514.8	513.0	511.1	509.3	507.5	509.3	511.1	513.0
122.5°	560.2	561.3	561.9	560.8	558.5	556.2	554.0	551.7	554.0	556.2	558.5
125°	606.1	606.8	607.1	606.1	604.0	602.0	599.9	597.9	599.9	602.0	604.0
127.5°	653.0	653.9	654.4	653.1	650.6	648.1	645.6	643.1	645.6	648.1	650.6
130°	697.9	698.4	698.6	697.1	694.1	691.2	688.2	685.2	688.2	691.2	694.1
132.5°	743.1	742.8	742.7	741.6	739.3	737.0	734.8	732.5	734.8	737.0	739.3
135°	785.6	785.1	784.9	783.6	781.1	778.6	776.1	773.6	776.1	778.6	781.1
137.5°	828.7	828.2	828.0	827.0	824.9	822.9	820.8	818.8	820.8	822.9	824.9
140°	869.8	868.7	868.1	867.1	865.0	862.9	860.9	858.8	860.9	862.9	865.0
142.5°	910.2	909.5	909.2	908.2	906.1	904.0	902.0	899.9	902.0	904.0	906.1
145°	948.2	946.9	946.2	945.4	943.8	942.2	940.6	939.0	940.6	942.2	943.8
147.5°	984.5	983.6	983.1	982.1	980.0	978.0	975.9	973.9	975.9	978.0	980.0
150°	1017.4	1016.5	1016.0	1015.3	1014.0	1012.6	1011.3	1009.9	1011.3	1012.6	1014.0
152.5°	1049.6	1048.5	1047.9	1047.2	1045.8	1044.5	1043.1	1041.7	1043.1	1044.5	1045.8
155°	1077.6	1076.9	1076.6	1076.3	1075.6	1074.9	1074.2	1073.5	1074.2	1074.9	1075.6
157.5°	1104.0	1103.5	1103.3	1103.1	1102.6	1102.2	1101.7	1101.3	1101.7	1102.2	1102.6
160°	1128.3	1128.1	1128.0	1127.8	1127.3	1126.8	1126.4	1125.9	1126.4	1126.8	1127.3
162.5°	1148.9	1148.6	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5
165°	1167.0	1167.0	1167.0	1167.1	1167.4	1167.6	1167.9	1168.1	1167.9	1167.6	1167.4
167.5°	1182.4	1182.4	1182.4	1182.7	1183.4	1184.1	1184.8	1185.5	1184.8	1184.1	1183.4
170°	1195.5	1195.7	1195.8	1196.1	1196.8	1197.5	1198.2	1198.9	1198.2	1197.5	1196.8
172.5°	1204.7	1204.9	1205.0	1205.3	1206.0	1206.7	1207.4	1208.1	1207.4	1206.7	1206.0
175°	1211.5	1212.0	1212.2	1212.5	1213.2	1213.9	1214.6	1215.3	1214.6	1213.9	1213.2
177.5°	1215.6	1216.1	1216.3	1216.6	1217.3	1218.0	1218.7	1219.4	1218.7	1218.0	1217.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	569.0	571.2	570.7	566.3	561.5	557.5	550.0	550.9	548.2	548.6	551.3
5°	554.8	554.8	553.1	546.9	538.9	534.5	526.1	523.9	518.6	518.1	517.7
7.5°	539.8	537.6	535.4	526.5	516.8	509.7	498.2	495.6	490.3	486.8	485.0
10°	522.1	519.0	514.6	504.4	492.5	483.7	471.7	468.2	458.0	453.6	450.9
12.5°	502.7	500.9	493.8	485.4	466.0	456.2	439.0	442.5	432.4	423.5	422.2
15°	483.2	476.6	472.6	458.9	435.5	431.0	417.3	410.3	401.0	393.9	393.9
17.5°	464.2	454.0	445.2	430.6	413.4	401.0	390.8	387.3	375.8	368.7	367.4
20°	439.0	427.5	425.3	404.5	392.6	378.9	369.2	360.3	351.9	348.8	346.6
22.5°	415.1	401.9	398.3	380.6	368.7	355.0	345.3	339.1	332.9	330.7	326.7
25°	389.5	381.5	376.2	357.2	344.0	331.1	324.5	320.1	314.3	313.9	311.2
27.5°	364.7	357.2	351.9	333.8	324.1	312.1	306.8	302.0	298.9	297.5	296.2
30°	343.5	335.1	328.9	315.7	303.7	294.0	289.6	286.5	284.7	282.5	282.1
32.5°	320.1	315.2	306.8	296.6	287.4	278.1	275.4	273.2	270.6	269.7	269.2
35°	300.2	293.6	288.2	276.8	272.8	264.8	261.7	260.0	256.4	255.5	254.6
37.5°	280.7	274.5	268.8	261.7	254.2	249.8	248.0	245.4	243.6	244.0	243.2
40°	261.3	256.4	252.0	244.5	240.1	237.8	234.3	231.7	230.8	231.2	230.8
42.5°	242.3	237.8	235.2	229.4	225.0	222.8	220.6	218.0	219.3	219.3	220.6
45°	225.0	221.0	219.3	214.9	212.2	208.7	206.5	206.0	207.8	207.3	207.3
47.5°	207.3	206.0	203.8	199.8	196.3	194.1	193.6	193.6	195.4	196.3	195.8
50°	193.6	191.0	188.3	185.2	182.6	181.7	180.4	181.3	183.0	183.0	183.9
52.5°	176.4	174.6	173.7	171.1	169.3	169.3	169.3	169.8	171.1	172.4	172.0
55°	161.4	160.0	159.2	157.8	155.6	156.1	155.6	156.5	157.8	159.2	160.0
57.5°	145.5	145.0	144.1	141.9	141.9	141.5	142.8	143.2	145.5	146.3	147.7
60°	131.3	130.0	130.0	128.2	128.2	128.2	129.5	130.9	132.6	133.1	134.0
62.5°	116.3	116.3	115.8	114.5	114.5	115.8	116.3	118.0	118.9	118.9	120.3
65°	102.1	101.7	101.2	101.7	102.1	102.1	103.5	104.3	105.2	105.7	106.1
67.5°	88.0	87.5	88.4	88.0	88.9	90.6	90.2	91.5	92.8	92.8	93.3
70°	74.7	75.6	75.2	76.0	75.6	76.5	77.8	78.3	78.3	78.7	80.0
72.5°	62.3	62.3	62.3	61.9	62.3	63.2	64.1	64.5	65.4	65.9	67.2
75°	50.4	50.4	49.5	50.4	50.4	51.3	52.2	52.2	52.2	53.1	54.4
77.5°	38.0	38.5	38.0	38.9	38.9	39.3	40.2	39.8	40.7	41.1	41.6
80°	27.9	27.4	27.4	27.4	27.9	27.9	28.7	29.2	29.2	30.5	29.6
82.5°	17.7	18.1	17.7	18.1	18.1	18.6	18.1	18.6	19.0	19.9	19.5
85°	10.2	9.7	9.7	10.2	9.7	9.7	10.2	9.7	10.2	9.7	10.2
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.7	2.7	2.7	2.2
90°	12.0	13.4	15.9	20.9	26.0	31.0	36.0	35.5	35.1	34.6	34.1
92.5°	29.9	30.8	30.9	31.1	31.4	31.6	31.8	32.0	32.3	32.5	32.8
95°	62.6	63.7	63.9	64.4	64.8	65.3	65.7	65.7	65.7	65.7	65.7
97.5°	97.6	98.6	99.1	100.0	100.9	101.8	102.7	102.7	102.7	102.7	102.7
100°	137.8	138.7	139.0	139.7	140.4	141.1	141.8	141.8	141.8	141.8	141.8
102.5°	179.1	179.8	180.3	181.2	182.1	183.0	183.9	184.1	184.3	184.6	184.8
105°	223.7	224.0	224.2	224.7	225.1	225.6	226.0	226.5	226.9	227.4	227.9
107.5°	271.7	272.2	272.2	272.2	272.2	272.2	272.2	272.4	272.7	272.9	273.2
110°	318.8	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	368.1	368.8	368.7	368.5	368.2	368.0	367.8	367.1	366.4	365.7	365.0
115°	416.4	417.1	416.9	416.4	415.9	415.5	415.0	414.8	414.6	414.3	414.1
117.5°	466.5	467.4	466.8	465.7	464.6	463.4	462.3	461.6	460.9	460.2	459.5
120°	514.8	515.7	514.8	513.0	511.1	509.3	507.5	507.5	507.5	507.5	507.5
122.5°	560.8	561.9	561.3	560.2	559.1	557.9	556.8	556.1	555.4	554.7	554.0
125°	606.1	607.1	606.8	606.1	605.4	604.8	604.1	603.4	602.7	602.0	601.3
127.5°	653.1	654.4	653.9	653.0	652.1	651.2	650.3	649.4	648.5	647.6	646.7
130°	697.1	698.6	698.4	697.9	697.4	697.0	696.5	696.1	695.6	695.2	694.7
132.5°	741.6	742.7	742.8	743.1	743.3	743.6	743.8	742.6	741.5	740.3	739.2
135°	783.6	784.9	785.1	785.6	786.0	786.5	786.9	786.7	786.5	786.2	786.0
137.5°	827.0	828.0	828.2	828.7	829.2	829.6	830.1	829.9	829.6	829.4	829.1
140°	867.1	868.1	868.7	869.8	870.9	872.1	873.2	873.2	873.2	873.2	873.2
142.5°	908.2	909.2	909.5	910.2	910.9	911.6	912.3	912.5	912.7	913.0	913.2
145°	945.4	946.2	946.9	948.2	949.6	950.9	952.3	952.5	952.7	953.0	953.2
147.5°	982.1	983.1	983.6	984.5	985.4	986.4	987.3	987.7	988.2	988.6	989.1
150°	1015.3	1016.0	1016.5	1017.4	1018.3	1019.2	1020.1	1020.8	1021.5	1022.2	1022.9
152.5°	1047.2	1047.9	1048.5	1049.6	1050.7	1051.9	1053.0	1053.9	1054.8	1055.7	1056.6
155°	1076.3	1076.6	1076.9	1077.6	1078.3	1079.0	1079.7	1080.8	1082.0	1083.1	1084.2
157.5°	1103.1	1103.3	1103.5	1104.0	1104.5	1104.9	1105.4	1107.0	1108.6	1110.2	1111.8
160°	1127.8	1128.0	1128.1	1128.3	1128.6	1128.8	1129.0	1130.4	1131.8	1133.1	1134.5
162.5°	1148.5	1148.5	1148.6	1148.9	1149.1	1149.4	1149.6	1151.2	1152.8	1154.4	1156.0
165°	1167.1	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1168.6	1170.2	1171.8	1173.4
167.5°	1182.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1184.0	1185.6	1187.2	1188.8
170°	1196.1	1195.8	1195.7	1195.5	1195.2	1195.0	1194.8	1196.4	1198.0	1199.6	1201.2
172.5°	1205.3	1205.0	1204.9	1204.7	1204.4	1204.2	1204.0	1205.6	1207.2	1208.8	1210.4
175°	1212.5	1212.2	1212.0	1211.5	1211.1	1210.6	1210.2	1211.8	1213.4	1215.0	1216.6
177.5°	1216.6	1216.3	1216.1	1215.6	1215.2	1214.7	1214.3	1215.7	1217.1	1218.4	1219.8
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	548.2	549.5	546.4	545.5	546.4	543.3	544.2	545.1	545.1	546.4	547.3
5°	516.4	514.6	511.5	510.6	509.7	511.1	510.2	511.5	511.9	515.0	515.5
7.5°	485.0	482.3	479.7	477.0	476.1	473.9	476.1	476.1	479.2	478.4	480.6
10°	447.8	447.4	443.9	442.5	440.8	437.2	442.1	440.8	443.0	447.0	447.8
12.5°	420.4	415.6	417.8	411.6	413.8	410.3	410.7	410.7	414.2	414.7	413.8
15°	394.4	390.4	384.6	382.0	380.6	378.9	384.6	385.1	382.4	388.6	386.4
17.5°	367.8	367.8	362.5	361.2	357.7	359.4	358.5	359.0	358.1	362.5	364.7
20°	344.8	342.6	340.9	341.3	336.9	336.0	335.1	336.0	339.1	342.2	343.1
22.5°	326.3	324.9	320.5	321.4	317.9	319.2	318.3	320.5	321.0	321.0	324.1
25°	308.6	306.8	307.3	305.5	304.2	304.2	302.8	304.2	305.9	306.8	307.3
27.5°	295.3	294.0	291.8	290.5	291.3	289.1	290.9	292.2	292.2	291.3	292.2
30°	279.4	280.3	280.3	275.9	277.6	276.8	278.1	279.0	279.0	279.4	278.5
32.5°	268.8	266.1	265.7	265.3	265.3	263.5	263.5	264.8	265.3	265.7	267.0
35°	254.6	254.6	252.4	253.8	252.0	252.4	252.0	252.4	253.3	252.0	253.3
37.5°	241.8	242.3	241.4	242.3	242.7	241.8	240.9	242.7	241.8	241.8	240.9
40°	230.8	230.3	230.8	230.8	230.8	231.2	230.3	230.3	230.3	229.4	228.6
42.5°	221.5	218.8	219.7	220.2	218.8	218.8	219.3	218.8	220.2	217.5	217.5
45°	208.2	207.3	207.8	207.8	208.7	207.3	208.2	208.7	207.3	206.9	206.0
47.5°	196.3	197.2	196.3	197.2	197.2	198.1	196.3	196.7	197.2	195.4	194.1
50°	184.4	184.4	185.7	185.2	185.7	184.8	184.8	184.4	184.8	183.9	182.6
52.5°	173.3	172.0	174.2	173.7	173.3	172.9	172.4	172.9	172.0	171.1	171.1
55°	159.6	159.6	160.9	161.4	161.4	160.5	159.6	160.0	159.6	159.2	158.7
57.5°	148.5	146.8	147.7	148.1	148.1	146.8	147.7	146.8	146.8	147.2	145.9
60°	134.4	134.4	133.5	134.8	134.8	134.0	134.0	134.4	133.5	133.1	132.6
62.5°	119.4	119.8	121.1	121.6	122.0	121.1	120.3	120.7	120.7	119.4	119.8
65°	106.5	107.4	109.2	108.8	107.9	108.3	107.4	107.9	106.5	107.0	105.7
67.5°	94.2	93.7	94.2	94.2	95.1	94.6	93.7	93.7	93.3	94.6	93.3
70°	80.9	80.9	80.9	80.9	81.3	81.8	80.9	80.0	80.5	79.6	79.1
72.5°	67.2	67.6	67.2	68.1	66.8	67.6	67.6	67.2	66.8	66.8	66.8
75°	54.4	55.3	53.9	54.4	53.9	54.8	54.4	54.4	53.5	53.1	53.5
77.5°	41.6	42.0	41.1	41.6	41.1	41.6	41.6	41.1	41.1	41.1	41.1
80°	29.6	30.1	29.6	29.2	28.7	29.6	28.7	29.2	29.6	29.2	30.1
82.5°	19.0	19.0	18.6	19.0	18.1	18.1	18.6	18.6	18.1	19.0	18.1
85°	9.3	9.3	10.2	9.3	8.8	8.8	8.8	9.3	8.8	9.7	9.3
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.7	1.8
90°	33.9	34.0	34.2	34.5	34.7	34.9	34.7	34.5	34.2	34.0	33.9
92.5°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
95°	65.7	65.5	65.0	64.6	64.1	63.7	64.1	64.6	65.0	65.5	65.7
97.5°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7
100°	141.8	141.7	141.4	141.2	140.9	140.7	140.9	141.2	141.4	141.7	141.8
102.5°	184.9	184.8	184.6	184.3	184.1	183.9	184.1	184.3	184.6	184.8	184.9
105°	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1
107.5°	273.3	272.7	271.6	270.4	269.3	268.1	269.3	270.4	271.6	272.7	273.3
110°	319.5	319.2	318.5	317.8	317.1	316.4	317.1	317.8	318.5	319.2	319.5

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	364.7	364.5	364.0	363.5	363.1	362.6	363.1	363.5	364.0	364.5	364.7
115°	414.0	413.7	413.0	412.3	411.6	410.9	411.6	412.3	413.0	413.7	414.0
117.5°	459.2	458.9	458.2	457.5	456.8	456.1	456.8	457.5	458.2	458.9	459.2
120°	507.5	507.2	506.5	505.8	505.1	504.4	505.1	505.8	506.5	507.2	507.5
122.5°	553.7	553.5	553.0	552.6	552.1	551.7	552.1	552.6	553.0	553.5	553.7
125°	601.0	600.9	600.7	600.4	600.2	600.0	600.2	600.4	600.7	600.9	601.0
127.5°	646.2	645.9	645.2	644.5	643.8	643.1	643.8	644.5	645.2	645.9	646.2
130°	694.5	694.0	693.1	692.2	691.3	690.4	691.3	692.2	693.1	694.0	694.5
132.5°	738.6	738.3	737.6	736.9	736.3	735.6	736.3	736.9	737.6	738.3	738.6
135°	785.9	785.6	784.9	784.2	783.5	782.8	783.5	784.2	784.9	785.6	785.9
137.5°	829.0	828.5	827.6	826.7	825.8	824.9	825.8	826.7	827.6	828.5	829.0
140°	873.2	872.7	871.8	870.9	870.0	869.1	870.0	870.9	871.8	872.7	873.2
142.5°	913.3	912.8	911.9	911.0	910.1	909.2	910.1	911.0	911.9	912.8	913.3
145°	953.3	952.8	951.9	951.0	950.1	949.2	950.1	951.0	951.9	952.8	953.3
147.5°	989.3	988.8	987.9	987.0	986.1	985.2	986.1	987.0	987.9	988.8	989.3
150°	1023.2	1022.9	1022.2	1021.5	1020.8	1020.1	1020.8	1021.5	1022.2	1022.9	1023.2
152.5°	1057.1	1056.6	1055.7	1054.8	1053.9	1053.0	1053.9	1054.8	1055.7	1056.6	1057.1
155°	1084.8	1084.5	1083.8	1083.1	1082.5	1081.8	1082.5	1083.1	1083.8	1084.5	1084.8
157.5°	1112.6	1112.0	1110.9	1109.7	1108.6	1107.4	1108.6	1109.7	1110.9	1112.0	1112.6
160°	1135.2	1134.7	1133.8	1132.9	1132.0	1131.1	1132.0	1132.9	1133.8	1134.7	1135.2
162.5°	1156.8	1156.2	1155.1	1153.9	1152.8	1151.6	1152.8	1153.9	1155.1	1156.2	1156.8
165°	1174.2	1173.6	1172.5	1171.4	1170.2	1169.1	1170.2	1171.4	1172.5	1173.6	1174.2
167.5°	1189.6	1189.0	1187.9	1186.8	1185.6	1184.5	1185.6	1186.8	1187.9	1189.0	1189.6
170°	1202.0	1201.3	1199.9	1198.6	1197.2	1195.8	1197.2	1198.6	1199.9	1201.3	1202.0
172.5°	1211.2	1210.5	1209.1	1207.8	1206.4	1205.0	1206.4	1207.8	1209.1	1210.5	1211.2
175°	1217.4	1216.7	1215.3	1214.0	1212.6	1211.2	1212.6	1214.0	1215.3	1216.7	1217.4
177.5°	1220.5	1219.8	1218.4	1217.1	1215.7	1214.3	1215.7	1217.1	1218.4	1219.8	1220.5
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	546.0	549.5	548.2	543.3	549.1	549.1	553.1	553.1	557.9	559.7	562.3
5°	515.0	517.7	519.9	517.7	521.7	527.9	531.4	534.5	541.1	543.8	547.8
7.5°	481.9	486.8	489.0	489.0	495.6	502.7	509.7	514.2	523.4	527.0	531.0
10°	449.6	455.4	459.8	459.3	470.4	474.8	483.7	493.8	503.1	508.4	514.2
12.5°	415.6	418.7	424.9	433.7	436.4	444.3	454.5	467.3	484.1	489.0	497.4
15°	387.3	395.7	400.5	404.5	410.7	418.2	429.3	441.7	458.5	469.1	477.9
17.5°	363.4	374.5	377.6	376.7	384.6	396.1	408.9	418.2	433.3	446.1	454.5
20°	344.0	348.4	353.7	355.9	362.1	374.5	386.8	397.4	409.8	420.0	429.7
22.5°	324.5	328.0	332.5	336.4	341.3	348.4	360.3	373.6	385.5	395.2	406.3
25°	308.6	310.8	314.8	317.9	323.2	328.0	336.4	351.0	365.2	370.9	380.6
27.5°	293.1	294.9	297.5	301.1	303.7	308.6	316.1	328.0	342.6	348.4	361.6
30°	279.4	280.7	283.4	285.2	286.5	292.2	298.0	307.3	318.3	326.3	336.0
32.5°	266.6	267.9	270.6	271.0	272.8	275.9	281.2	289.6	299.3	305.9	314.3
35°	252.4	253.3	256.0	256.9	258.2	260.8	264.8	271.0	279.8	284.7	292.2
37.5°	241.4	240.9	242.7	244.0	245.8	247.1	248.5	254.6	261.3	265.7	271.4
40°	229.4	228.6	229.0	230.8	231.7	233.4	233.4	239.6	244.0	247.6	252.0
42.5°	217.5	217.1	216.2	217.1	218.0	218.4	218.8	223.3	227.7	230.8	235.6
45°	205.6	205.1	204.2	204.7	204.7	205.6	206.9	208.7	211.8	214.4	217.1
47.5°	194.5	193.6	192.3	191.9	192.8	192.8	192.8	194.5	197.6	198.5	201.2
50°	183.0	181.7	179.9	179.0	179.0	178.6	179.5	179.9	182.6	183.5	185.7
52.5°	170.6	169.8	168.0	166.2	166.7	165.8	166.2	166.7	167.6	168.9	170.2
55°	158.3	156.5	155.2	154.7	153.4	153.4	152.1	153.9	153.4	153.9	155.6
57.5°	146.3	144.6	142.4	141.5	140.1	139.7	138.8	138.4	138.8	140.1	141.5
60°	132.2	131.3	130.0	128.7	127.8	126.4	125.6	125.6	125.1	125.1	125.6
62.5°	118.5	118.0	116.3	115.8	114.9	114.1	112.7	111.9	111.9	112.7	113.2
65°	105.2	104.8	103.5	103.0	100.8	99.9	99.5	99.0	98.1	98.1	98.1
67.5°	92.8	91.5	91.5	89.3	87.5	86.7	85.8	85.3	85.3	85.3	85.8
70°	79.1	79.1	77.8	76.5	74.7	75.2	73.8	72.5	72.5	71.6	72.1
72.5°	65.9	65.4	64.1	63.7	62.3	61.0	60.1	61.0	59.7	59.2	59.7
75°	53.1	52.6	51.7	50.8	51.3	50.0	48.6	48.2	48.2	47.3	47.3
77.5°	40.7	41.6	39.8	39.3	38.5	37.6	37.1	36.7	36.7	36.7	37.6
80°	28.3	28.7	28.7	27.9	28.3	27.0	27.0	27.0	25.6	26.1	26.5
82.5°	18.1	18.1	17.7	18.1	17.7	17.7	17.2	17.2	16.8	16.8	17.2
85°	10.2	9.7	9.3	10.2	9.7	9.7	9.3	9.3	9.3	9.3	9.3
87.5°	2.2	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.5	3.5	3.5
90°	34.1	34.6	35.1	35.5	36.0	31.0	26.0	20.9	15.9	13.4	12.0
92.5°	32.8	32.5	32.3	32.0	31.8	31.6	31.4	31.1	30.9	30.8	29.9
95°	65.7	65.7	65.7	65.7	65.7	65.3	64.8	64.4	63.9	63.7	62.6
97.5°	102.7	102.7	102.7	102.7	102.7	101.8	100.9	100.0	99.1	98.6	97.6
100°	141.8	141.8	141.8	141.8	141.8	141.1	140.4	139.7	139.0	138.7	137.8
102.5°	184.8	184.6	184.3	184.1	183.9	183.0	182.1	181.2	180.3	179.8	179.1
105°	227.9	227.4	226.9	226.5	226.0	225.6	225.1	224.7	224.2	224.0	223.7
107.5°	273.2	272.9	272.7	272.4	272.2	272.2	272.2	272.2	272.2	272.2	271.7
110°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	318.8

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	365.0	365.7	366.4	367.1	367.8	368.0	368.2	368.5	368.7	368.8	368.1
115°	414.1	414.3	414.6	414.8	415.0	415.5	415.9	416.4	416.9	417.1	416.4
117.5°	459.5	460.2	460.9	461.6	462.3	463.4	464.6	465.7	466.8	467.4	466.5
120°	507.5	507.5	507.5	507.5	507.5	509.3	511.1	513.0	514.8	515.7	514.8
122.5°	554.0	554.7	555.4	556.1	556.8	557.9	559.1	560.2	561.3	561.9	560.8
125°	601.3	602.0	602.7	603.4	604.1	604.8	605.4	606.1	606.8	607.1	606.1
127.5°	646.7	647.6	648.5	649.4	650.3	651.2	652.1	653.0	653.9	654.4	653.1
130°	694.7	695.2	695.6	696.1	696.5	697.0	697.4	697.9	698.4	698.6	697.1
132.5°	739.2	740.3	741.5	742.6	743.8	743.6	743.3	743.1	742.8	742.7	741.6
135°	786.0	786.2	786.5	786.7	786.9	786.5	786.0	785.6	785.1	784.9	783.6
137.5°	829.1	829.4	829.6	829.9	830.1	829.6	829.2	828.7	828.2	828.0	827.0
140°	873.2	873.2	873.2	873.2	873.2	872.1	870.9	869.8	868.7	868.1	867.1
142.5°	913.2	913.0	912.7	912.5	912.3	911.6	910.9	910.2	909.5	909.2	908.2
145°	953.2	953.0	952.7	952.5	952.3	950.9	949.6	948.2	946.9	946.2	945.4
147.5°	989.1	988.6	988.2	987.7	987.3	986.4	985.4	984.5	983.6	983.1	982.1
150°	1022.9	1022.2	1021.5	1020.8	1020.1	1019.2	1018.3	1017.4	1016.5	1016.0	1015.3
152.5°	1056.6	1055.7	1054.8	1053.9	1053.0	1051.9	1050.7	1049.6	1048.5	1047.9	1047.2
155°	1084.2	1083.1	1082.0	1080.8	1079.7	1079.0	1078.3	1077.6	1076.9	1076.6	1076.3
157.5°	1111.8	1110.2	1108.6	1107.0	1105.4	1104.9	1104.5	1104.0	1103.5	1103.3	1103.1
160°	1134.5	1133.1	1131.8	1130.4	1129.0	1128.8	1128.6	1128.3	1128.1	1128.0	1127.8
162.5°	1156.0	1154.4	1152.8	1151.2	1149.6	1149.4	1149.1	1148.9	1148.6	1148.5	1148.5
165°	1173.4	1171.8	1170.2	1168.6	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.1
167.5°	1188.8	1187.2	1185.6	1184.0	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.7
170°	1201.2	1199.6	1198.0	1196.4	1194.8	1195.0	1195.2	1195.5	1195.7	1195.8	1196.1
172.5°	1210.4	1208.8	1207.2	1205.6	1204.0	1204.2	1204.4	1204.7	1204.9	1205.0	1205.3
175°	1216.6	1215.0	1213.4	1211.8	1210.2	1210.6	1211.1	1211.5	1212.0	1212.2	1212.5
177.5°	1219.8	1218.4	1217.1	1215.7	1214.3	1214.7	1215.2	1215.6	1216.1	1216.3	1216.6
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	575.2	575.2	575.2	575.2
2.5°	564.6	564.6	571.2	578.3
5°	552.2	555.3	565.9	575.6
7.5°	540.2	545.5	558.8	571.2
10°	525.7	532.7	549.1	563.7
12.5°	511.5	518.1	537.1	553.5
15°	491.6	500.0	520.3	540.7
17.5°	471.7	480.1	504.9	528.7
20°	448.3	459.3	487.2	519.0
22.5°	426.6	440.3	471.3	496.9
25°	402.8	424.0	452.7	485.9
27.5°	381.5	402.8	431.9	465.5
30°	357.7	379.3	409.4	440.3
32.5°	334.7	354.6	383.7	421.8
35°	310.8	329.8	358.1	396.6
37.5°	289.1	307.7	338.6	374.0
40°	267.9	287.4	313.9	349.3
42.5°	248.0	265.3	289.1	324.5
45°	229.9	242.3	264.4	297.5
47.5°	210.9	221.9	242.3	275.4
50°	193.2	202.5	220.2	251.1
52.5°	176.0	183.9	200.3	225.0
55°	160.5	168.0	179.9	204.2
57.5°	144.6	150.3	161.8	181.3
60°	129.1	134.4	143.7	159.6
62.5°	113.6	118.0	126.9	139.7
65°	99.9	103.5	110.1	121.1
67.5°	86.7	88.9	94.2	103.0
70°	73.8	75.6	80.0	87.1
72.5°	60.1	61.9	66.8	71.6
75°	48.6	49.1	52.6	56.6
77.5°	38.0	37.6	40.2	43.3
80°	26.1	27.4	29.6	30.9
82.5°	17.7	18.1	19.0	19.9
85°	9.7	10.2	10.2	11.5
87.5°	4.0	4.4	4.4	4.9
90°	9.3	6.5	3.8	1.0
92.5°	28.1	26.2	24.4	22.6
95°	60.3	58.0	55.7	53.4
97.5°	95.5	93.5	91.4	89.4
100°	136.0	134.1	132.3	130.5
102.5°	177.7	176.4	175.0	173.6
105°	223.0	222.3	221.6	220.9
107.5°	270.8	269.9	269.0	268.1
110°	317.4	316.1	314.7	313.3

TEST NUMBER: P1029422

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	366.7	365.4	364.0	362.6
115°	415.0	413.7	412.3	410.9
117.5°	464.7	462.8	461.0	459.2
120°	513.0	511.1	509.3	507.5
122.5°	558.5	556.2	554.0	551.7
125°	604.0	602.0	599.9	597.9
127.5°	650.6	648.1	645.6	643.1
130°	694.1	691.2	688.2	685.2
132.5°	739.3	737.0	734.8	732.5
135°	781.1	778.6	776.1	773.6
137.5°	824.9	822.9	820.8	818.8
140°	865.0	862.9	860.9	858.8
142.5°	906.1	904.0	902.0	899.9
145°	943.8	942.2	940.6	939.0
147.5°	980.0	978.0	975.9	973.9
150°	1014.0	1012.6	1011.3	1009.9
152.5°	1045.8	1044.5	1043.1	1041.7
155°	1075.6	1074.9	1074.2	1073.5
157.5°	1102.6	1102.2	1101.7	1101.3
160°	1127.3	1126.8	1126.4	1125.9
162.5°	1148.5	1148.5	1148.5	1148.5
165°	1167.4	1167.6	1167.9	1168.1
167.5°	1183.4	1184.1	1184.8	1185.5
170°	1196.8	1197.5	1198.2	1198.9
172.5°	1206.0	1206.7	1207.4	1208.1
175°	1213.2	1213.9	1214.6	1215.3
177.5°	1217.3	1218.0	1218.7	1219.4
180°	1217.4	1217.4	1217.4	1217.4

(END OF REPORT)