

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: P1029397

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029397
REPORT IS A COMBINATION OF REPORTS P985758 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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

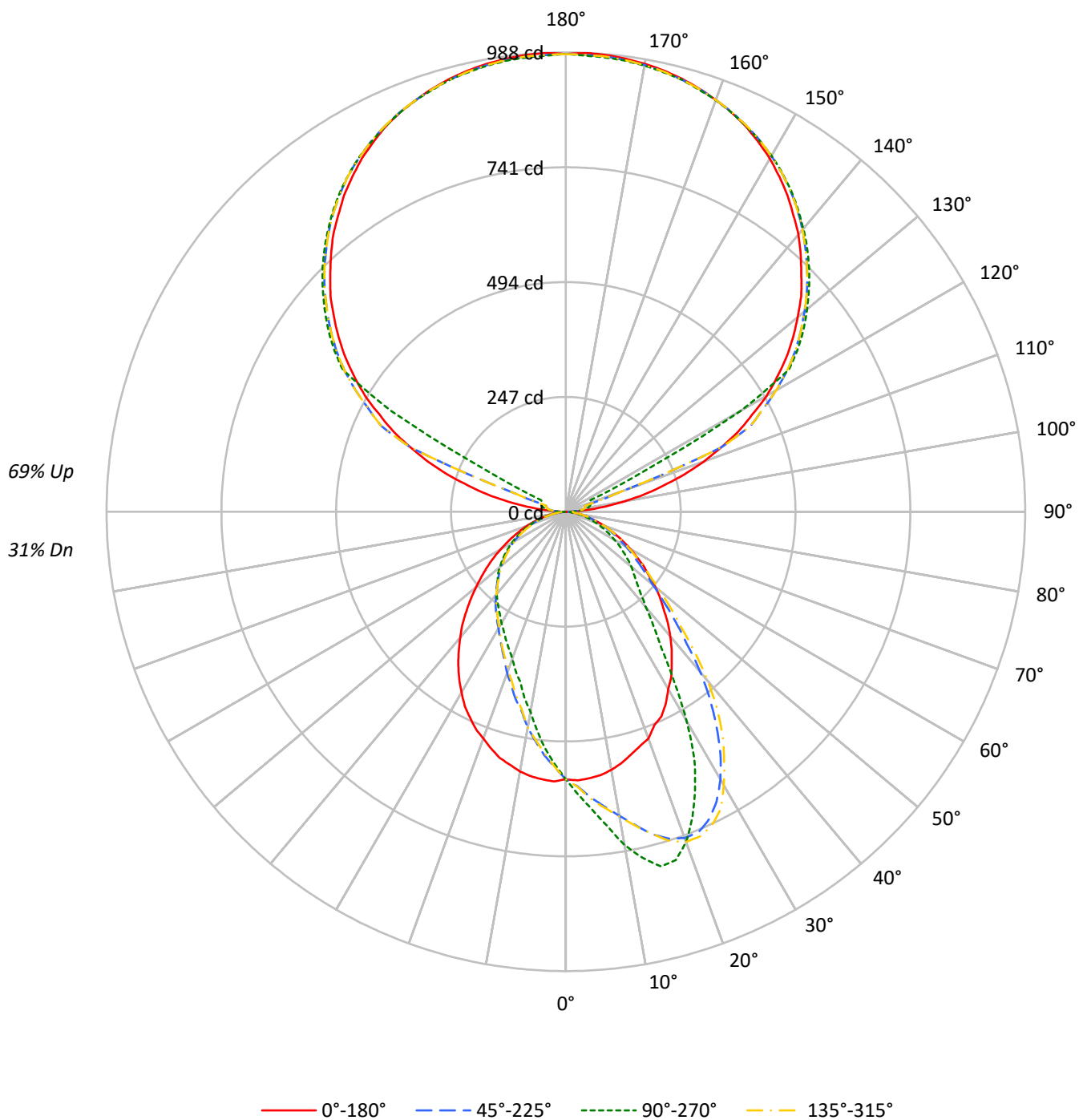
Lumens per Lamp: N/A
Luminaire Lumens: 4156.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029397

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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
RCR																				
0	103	103	103	103	92	92	92	92		73	73	73		55	55	55		38	38	38
1	94	90	86	83	84	81	78	75		64	62	60		48	47	46		34	34	33
2	86	79	73	68	77	71	66	62		56	53	50		43	41	39		30	29	28
3	78	69	62	57	70	63	57	52		50	46	42		38	35	33		27	26	24
4	72	61	54	48	64	56	49	44		44	40	36		34	31	29		25	23	21
5	66	55	47	41	59	50	43	38		40	35	31		31	27	25		22	20	19
6	61	49	41	36	54	45	38	33		36	31	27		28	24	22		20	18	16
7	56	44	37	31	50	40	34	29		33	28	24		25	22	19		19	16	15
8	52	40	33	28	47	37	30	26		30	25	21		23	20	17		17	15	13
9	48	37	29	25	43	33	27	23		27	22	19		21	18	16		16	14	12
10	45	33	27	22	41	31	24	20		25	20	17		20	16	14		15	13	11

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: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.3
10°-20°	159.5	3.8
20°-30°	231.4	5.6
30°-40°	244.0	5.9
40°-50°	215.9	5.2
50°-60°	172.4	4.1
60°-70°	117.1	2.8
70°-80°	59.9	1.4
80°-90°	15.9	0.4
90°-100°	32.5	0.8
100°-110°	121.0	2.9
110°-120°	320.9	7.7
120°-130°	532.2	12.8
130°-140°	565.3	13.6
140°-150°	525.4	12.6
150°-160°	422.4	10.2
160°-170°	272.2	6.5
170°-180°	93.7	2.3
0°-30°	445.7	10.7
0°-40°	689.6	16.6
0°-60°	1077.9	25.9
0°-90°	1270.7	30.6
90°-120°	474.3	11.4
90°-150°	2097.1	50.5
90°-180°	2885.0	69.4
0°-180°	4156.0	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	19	1	19	1	3
95°	46	31	46	31	46	55
105°	216	54	216	54	216	231
115°	410	58	410	58	410	403
125°	579	609	579	609	579	516
135°	716	740	716	740	716	553
145°	831	844	831	844	831	520
155°	915	916	915	916	915	422
165°	964	962	964	962	964	272
175°	986	981	986	981	986	94
180°	984	984	984	984	984	

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	0.7	2.4	4.2	5.9	7.6	8.5	9.1	10.4	11.7	12.9	14.2
92.5°	17.8	17.2	16.6	15.9	15.3	15.0	15.2	15.7	16.2	16.6	17.1
95°	46.3	41.1	35.9	30.6	25.4	22.8	23.4	24.5	25.6	26.7	27.8
97.5°	83.3	70.3	57.3	44.4	31.4	24.9	26.2	28.7	31.2	33.8	36.3
100°	126.0	104.3	82.7	61.0	39.3	28.5	29.8	32.5	35.2	37.9	40.6
102.5°	173.1	172.8	172.4	172.1	171.8	171.6	157.2	128.4	99.6	70.8	42.0
105°	216.5	221.3	226.0	230.8	235.5	237.9	216.3	173.1	129.8	86.6	43.4
107.5°	267.1	271.1	275.0	279.0	282.9	284.9	258.2	204.9	151.6	98.2	44.9
110°	315.5	318.8	322.1	325.4	328.7	330.4	307.5	261.8	216.1	170.3	124.6

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	361.1	363.9	366.8	369.6	372.5	373.9	372.6	369.9	367.2	364.5	361.8
115°	409.5	412.2	414.9	417.6	420.3	421.6	423.6	427.5	431.5	435.4	439.4
117.5°	451.5	454.7	457.8	461.0	464.1	465.7	467.0	469.7	472.4	475.1	477.8
120°	498.5	500.9	503.3	505.6	508.0	509.2	510.6	513.5	516.3	519.2	522.0
122.5°	538.4	540.9	543.5	546.0	548.5	549.8	551.4	554.5	557.7	560.8	564.0
125°	579.0	581.0	583.1	585.1	587.2	588.2	589.7	592.7	595.8	598.8	601.8
127.5°	616.0	618.2	620.4	622.7	624.9	626.0	627.2	629.6	631.9	634.3	636.7
130°	650.9	653.4	656.0	658.5	661.0	662.3	663.2	664.9	666.6	668.4	670.1
132.5°	686.5	688.6	690.6	692.7	694.8	695.8	696.7	698.4	700.1	701.9	703.6
135°	716.4	718.9	721.5	724.0	726.5	727.8	728.5	729.9	731.4	732.8	734.2
137.5°	747.7	749.6	751.5	753.4	755.3	756.3	757.1	758.7	760.2	761.8	763.4
140°	778.4	779.7	780.9	782.2	783.5	784.1	785.0	786.7	788.4	790.2	791.9
142.5°	804.0	805.1	806.2	807.3	808.4	809.0	810.0	812.1	814.2	816.2	818.3
145°	831.1	830.9	830.8	830.6	830.5	830.4	831.7	834.4	837.1	839.8	842.5
147.5°	854.6	854.1	853.6	853.1	852.6	852.4	853.7	856.4	859.1	861.8	864.5
150°	877.4	876.3	875.2	874.1	873.0	872.4	873.7	876.2	878.7	881.3	883.8
152.5°	896.6	895.3	894.1	892.8	891.5	890.9	892.1	894.5	896.8	899.2	901.6
155°	915.1	913.7	912.3	910.8	909.4	908.7	909.6	911.5	913.4	915.3	917.2
157.5°	930.1	928.8	927.6	926.3	925.0	924.4	925.1	926.5	928.0	929.4	930.8
160°	942.9	941.9	941.0	940.0	939.1	938.6	939.1	940.0	941.0	941.9	942.9
162.5°	954.3	953.3	952.4	951.4	950.5	950.0	950.4	951.2	952.0	952.8	953.6
165°	964.2	963.3	962.3	961.4	960.5	960.0	960.2	960.7	961.2	961.6	962.1
167.5°	972.1	971.1	970.2	969.2	968.3	967.8	968.0	968.5	969.0	969.4	969.9
170°	978.5	977.5	976.6	975.6	974.7	974.2	974.4	974.7	975.0	975.3	975.6
172.5°	982.8	981.8	980.9	979.9	979.0	978.5	978.7	979.0	979.3	979.6	979.9
175°	986.3	985.2	984.1	983.0	981.9	981.3	981.5	981.8	982.1	982.5	982.8
177.5°	987.7	986.6	985.5	984.4	983.3	982.8	982.9	983.0	983.2	983.3	983.5
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	15.0	15.8	16.6	17.4	17.8	18.0	18.3	18.6	18.9	19.2	18.9
92.5°	17.4	17.7	18.0	18.3	18.5	18.6	18.7	18.9	19.0	19.2	19.0
95°	28.6	29.4	30.1	30.9	31.3	31.2	31.1	30.9	30.8	30.6	30.8
97.5°	36.8	37.3	37.8	38.3	38.5	38.6	38.7	38.9	39.0	39.2	39.0
100°	41.9	43.1	44.4	45.7	46.3	46.5	46.8	47.1	47.4	47.7	47.4
102.5°	43.7	45.5	47.2	48.9	49.8	50.0	50.5	51.0	51.5	52.0	51.5
105°	45.2	46.9	48.7	50.4	51.3	51.6	52.2	52.9	53.5	54.1	53.5
107.5°	46.6	48.4	50.1	51.8	52.7	53.0	53.6	54.3	54.9	55.5	54.9
110°	108.8	93.0	77.1	61.3	53.4	53.7	54.4	55.0	55.7	56.3	55.7

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	293.6	225.4	157.1	88.9	54.8	55.0	55.5	56.0	56.5	57.0	56.5
115°	366.1	292.9	219.6	146.3	109.7	104.0	92.6	81.2	69.8	58.4	69.8
117.5°	455.2	432.6	409.9	387.3	376.0	355.3	313.8	272.3	230.9	189.4	230.9
120°	523.9	525.8	527.7	529.6	530.5	519.8	498.5	477.1	455.8	434.4	455.8
122.5°	565.0	565.9	566.9	567.8	568.3	568.4	568.5	568.7	568.8	569.0	568.8
125°	602.9	604.0	605.1	606.2	606.7	606.9	607.4	607.9	608.4	608.9	608.4
127.5°	638.3	639.9	641.4	643.0	643.8	643.9	644.0	644.2	644.3	644.5	644.3
130°	671.9	673.6	675.4	677.1	678.0	677.9	677.7	677.6	677.4	677.2	677.4
132.5°	705.0	706.4	707.9	709.3	710.0	709.9	709.8	709.6	709.5	709.3	709.5
135°	735.8	737.4	738.9	740.5	741.3	741.1	740.8	740.5	740.2	739.9	740.2
137.5°	765.0	766.6	768.1	769.7	770.5	770.3	769.8	769.3	768.9	768.4	768.9
140°	793.3	794.7	796.2	797.6	798.3	797.9	797.1	796.3	795.5	794.7	795.5
142.5°	819.5	820.8	822.0	823.3	823.9	823.5	822.7	822.0	821.2	820.4	821.2
145°	843.6	844.7	845.8	846.9	847.4	847.0	846.2	845.5	844.7	843.9	844.7
147.5°	865.3	866.1	866.9	867.7	868.1	867.8	867.2	866.5	865.9	865.3	865.9
150°	884.7	885.7	886.6	887.5	888.0	887.6	886.8	886.1	885.3	884.5	885.3
152.5°	902.5	903.5	904.4	905.3	905.8	905.3	904.2	903.1	902.0	900.9	902.0
155°	918.2	919.1	920.1	921.0	921.5	920.9	919.6	918.3	917.1	915.8	917.1
157.5°	931.9	933.0	934.1	935.2	935.8	935.2	933.9	932.6	931.4	930.1	931.4
160°	943.8	944.8	945.7	946.6	947.1	946.6	945.5	944.4	943.3	942.2	943.3
162.5°	954.7	955.8	956.9	958.0	958.5	957.8	956.4	954.9	953.5	952.1	953.5
165°	963.2	964.3	965.4	966.5	967.1	966.5	965.4	964.3	963.2	962.1	963.2
167.5°	971.0	972.1	973.2	974.3	974.9	974.2	972.8	971.3	969.9	968.5	969.9
170°	976.7	977.8	978.9	980.0	980.6	979.9	978.5	977.0	975.6	974.2	975.6
172.5°	981.0	982.1	983.2	984.3	984.9	984.2	982.8	981.3	979.9	978.5	979.9
175°	983.9	985.0	986.1	987.2	987.7	986.9	985.3	983.8	982.2	980.6	982.2
177.5°	984.6	985.7	986.8	987.9	988.5	987.8	986.3	984.9	983.4	982.0	983.4
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	18.6	18.3	18.0	17.8	17.4	16.6	15.8	15.0	14.2	12.9	11.7
92.5°	18.9	18.7	18.6	18.5	18.3	18.0	17.7	17.4	17.1	16.6	16.2
95°	30.9	31.1	31.2	31.3	30.9	30.1	29.4	28.6	27.8	26.7	25.6
97.5°	38.9	38.7	38.6	38.5	38.3	37.8	37.3	36.8	36.3	33.8	31.2
100°	47.1	46.8	46.5	46.3	45.7	44.4	43.1	41.9	40.6	37.9	35.2
102.5°	51.0	50.5	50.0	49.8	48.9	47.2	45.5	43.7	42.0	70.8	99.6
105°	52.9	52.2	51.6	51.3	50.4	48.7	46.9	45.2	43.4	86.6	129.8
107.5°	54.3	53.6	53.0	52.7	51.8	50.1	48.4	46.6	44.9	98.2	151.6
110°	55.0	54.4	53.7	53.4	61.3	77.1	93.0	108.8	124.6	170.3	216.1

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	56.0	55.5	55.0	54.8	88.9	157.1	225.4	293.6	361.8	364.5	367.2
115°	81.2	92.6	104.0	109.7	146.3	219.6	292.9	366.1	439.4	435.4	431.5
117.5°	272.3	313.8	355.3	376.0	387.3	409.9	432.6	455.2	477.8	475.1	472.4
120°	477.1	498.5	519.8	530.5	529.6	527.7	525.8	523.9	522.0	519.2	516.3
122.5°	568.7	568.5	568.4	568.3	567.8	566.9	565.9	565.0	564.0	560.8	557.7
125°	607.9	607.4	606.9	606.7	606.2	605.1	604.0	602.9	601.8	598.8	595.8
127.5°	644.2	644.0	643.9	643.8	643.0	641.4	639.9	638.3	636.7	634.3	631.9
130°	677.6	677.7	677.9	678.0	677.1	675.4	673.6	671.9	670.1	668.4	666.6
132.5°	709.6	709.8	709.9	710.0	709.3	707.9	706.4	705.0	703.6	701.9	700.1
135°	740.5	740.8	741.1	741.3	740.5	738.9	737.4	735.8	734.2	732.8	731.4
137.5°	769.3	769.8	770.3	770.5	769.7	768.1	766.6	765.0	763.4	761.8	760.2
140°	796.3	797.1	797.9	798.3	797.6	796.2	794.7	793.3	791.9	790.2	788.4
142.5°	822.0	822.7	823.5	823.9	823.3	822.0	820.8	819.5	818.3	816.2	814.2
145°	845.5	846.2	847.0	847.4	846.9	845.8	844.7	843.6	842.5	839.8	837.1
147.5°	866.5	867.2	867.8	868.1	867.7	866.9	866.1	865.3	864.5	861.8	859.1
150°	886.1	886.8	887.6	888.0	887.5	886.6	885.7	884.7	883.8	881.3	878.7
152.5°	903.1	904.2	905.3	905.8	905.3	904.4	903.5	902.5	901.6	899.2	896.8
155°	918.3	919.6	920.9	921.5	921.0	920.1	919.1	918.2	917.2	915.3	913.4
157.5°	932.6	933.9	935.2	935.8	935.2	934.1	933.0	931.9	930.8	929.4	928.0
160°	944.4	945.5	946.6	947.1	946.6	945.7	944.8	943.8	942.9	941.9	941.0
162.5°	954.9	956.4	957.8	958.5	958.0	956.9	955.8	954.7	953.6	952.8	952.0
165°	964.3	965.4	966.5	967.1	966.5	965.4	964.3	963.2	962.1	961.6	961.2
167.5°	971.3	972.8	974.2	974.9	974.3	973.2	972.1	971.0	969.9	969.4	969.0
170°	977.0	978.5	979.9	980.6	980.0	978.9	977.8	976.7	975.6	975.3	975.0
172.5°	981.3	982.8	984.2	984.9	984.3	983.2	982.1	981.0	979.9	979.6	979.3
175°	983.8	985.3	986.9	987.7	987.2	986.1	985.0	983.9	982.8	982.5	982.1
177.5°	984.9	986.3	987.8	988.5	987.9	986.8	985.7	984.6	983.5	983.3	983.2
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	10.4	9.1	8.5	7.6	5.9	4.2	2.4	0.7	2.4	4.2	5.9
92.5°	15.7	15.2	15.0	15.3	15.9	16.6	17.2	17.8	17.2	16.6	15.9
95°	24.5	23.4	22.8	25.4	30.6	35.9	41.1	46.3	41.1	35.9	30.6
97.5°	28.7	26.2	24.9	31.4	44.4	57.3	70.3	83.3	70.3	57.3	44.4
100°	32.5	29.8	28.5	39.3	61.0	82.7	104.3	126.0	104.3	82.7	61.0
102.5°	128.4	157.2	171.6	171.8	172.1	172.4	172.8	173.1	172.8	172.4	172.1
105°	173.1	216.3	237.9	235.5	230.8	226.0	221.3	216.5	221.3	226.0	230.8
107.5°	204.9	258.2	284.9	282.9	279.0	275.0	271.1	267.1	271.1	275.0	279.0
110°	261.8	307.5	330.4	328.7	325.4	322.1	318.8	315.5	318.8	322.1	325.4

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	369.9	372.6	373.9	372.5	369.6	366.8	363.9	361.1	363.9	366.8	369.6
115°	427.5	423.6	421.6	420.3	417.6	414.9	412.2	409.5	412.2	414.9	417.6
117.5°	469.7	467.0	465.7	464.1	461.0	457.8	454.7	451.5	454.7	457.8	461.0
120°	513.5	510.6	509.2	508.0	505.6	503.3	500.9	498.5	500.9	503.3	505.6
122.5°	554.5	551.4	549.8	548.5	546.0	543.5	540.9	538.4	540.9	543.5	546.0
125°	592.7	589.7	588.2	587.2	585.1	583.1	581.0	579.0	581.0	583.1	585.1
127.5°	629.6	627.2	626.0	624.9	622.7	620.4	618.2	616.0	618.2	620.4	622.7
130°	664.9	663.2	662.3	661.0	658.5	656.0	653.4	650.9	653.4	656.0	658.5
132.5°	698.4	696.7	695.8	694.8	692.7	690.6	688.6	686.5	688.6	690.6	692.7
135°	729.9	728.5	727.8	726.5	724.0	721.5	718.9	716.4	718.9	721.5	724.0
137.5°	758.7	757.1	756.3	755.3	753.4	751.5	749.6	747.7	749.6	751.5	753.4
140°	786.7	785.0	784.1	783.5	782.2	780.9	779.7	778.4	779.7	780.9	782.2
142.5°	812.1	810.0	809.0	808.4	807.3	806.2	805.1	804.0	805.1	806.2	807.3
145°	834.4	831.7	830.4	830.5	830.6	830.8	830.9	831.1	830.9	830.8	830.6
147.5°	856.4	853.7	852.4	852.6	853.1	853.6	854.1	854.6	854.1	853.6	853.1
150°	876.2	873.7	872.4	873.0	874.1	875.2	876.3	877.4	876.3	875.2	874.1
152.5°	894.5	892.1	890.9	891.5	892.8	894.1	895.3	896.6	895.3	894.1	892.8
155°	911.5	909.6	908.7	909.4	910.8	912.3	913.7	915.1	913.7	912.3	910.8
157.5°	926.5	925.1	924.4	925.0	926.3	927.6	928.8	930.1	928.8	927.6	926.3
160°	940.0	939.1	938.6	939.1	940.0	941.0	941.9	942.9	941.9	941.0	940.0
162.5°	951.2	950.4	950.0	950.5	951.4	952.4	953.3	954.3	953.3	952.4	951.4
165°	960.7	960.2	960.0	960.5	961.4	962.3	963.3	964.2	963.3	962.3	961.4
167.5°	968.5	968.0	967.8	968.3	969.2	970.2	971.1	972.1	971.1	970.2	969.2
170°	974.7	974.4	974.2	974.7	975.6	976.6	977.5	978.5	977.5	976.6	975.6
172.5°	979.0	978.7	978.5	979.0	979.9	980.9	981.8	982.8	981.8	980.9	979.9
175°	981.8	981.5	981.3	981.9	983.0	984.1	985.2	986.3	985.2	984.1	983.0
177.5°	983.0	982.9	982.8	983.3	984.4	985.5	986.6	987.7	986.6	985.5	984.4
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	7.6	8.5	9.1	10.4	11.7	12.9	14.2	15.0	15.8	16.6	17.4
92.5°	15.3	15.0	15.2	15.7	16.2	16.6	17.1	17.4	17.7	18.0	18.3
95°	25.4	22.8	23.4	24.5	25.6	26.7	27.8	28.6	29.4	30.1	30.9
97.5°	31.4	24.9	26.2	28.7	31.2	33.8	36.3	36.8	37.3	37.8	38.3
100°	39.3	28.5	29.8	32.5	35.2	37.9	40.6	41.9	43.1	44.4	45.7
102.5°	171.8	171.6	157.2	128.4	99.6	70.8	42.0	43.7	45.5	47.2	48.9
105°	235.5	237.9	216.3	173.1	129.8	86.6	43.4	45.2	46.9	48.7	50.4
107.5°	282.9	284.9	258.2	204.9	151.6	98.2	44.9	46.6	48.4	50.1	51.8
110°	328.7	330.4	307.5	261.8	216.1	170.3	124.6	108.8	93.0	77.1	61.3

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	372.5	373.9	372.6	369.9	367.2	364.5	361.8	293.6	225.4	157.1	88.9
115°	420.3	421.6	423.6	427.5	431.5	435.4	439.4	366.1	292.9	219.6	146.3
117.5°	464.1	465.7	467.0	469.7	472.4	475.1	477.8	455.2	432.6	409.9	387.3
120°	508.0	509.2	510.6	513.5	516.3	519.2	522.0	523.9	525.8	527.7	529.6
122.5°	548.5	549.8	551.4	554.5	557.7	560.8	564.0	565.0	565.9	566.9	567.8
125°	587.2	588.2	589.7	592.7	595.8	598.8	601.8	602.9	604.0	605.1	606.2
127.5°	624.9	626.0	627.2	629.6	631.9	634.3	636.7	638.3	639.9	641.4	643.0
130°	661.0	662.3	663.2	664.9	666.6	668.4	670.1	671.9	673.6	675.4	677.1
132.5°	694.8	695.8	696.7	698.4	700.1	701.9	703.6	705.0	706.4	707.9	709.3
135°	726.5	727.8	728.5	729.9	731.4	732.8	734.2	735.8	737.4	738.9	740.5
137.5°	755.3	756.3	757.1	758.7	760.2	761.8	763.4	765.0	766.6	768.1	769.7
140°	783.5	784.1	785.0	786.7	788.4	790.2	791.9	793.3	794.7	796.2	797.6
142.5°	808.4	809.0	810.0	812.1	814.2	816.2	818.3	819.5	820.8	822.0	823.3
145°	830.5	830.4	831.7	834.4	837.1	839.8	842.5	843.6	844.7	845.8	846.9
147.5°	852.6	852.4	853.7	856.4	859.1	861.8	864.5	865.3	866.1	866.9	867.7
150°	873.0	872.4	873.7	876.2	878.7	881.3	883.8	884.7	885.7	886.6	887.5
152.5°	891.5	890.9	892.1	894.5	896.8	899.2	901.6	902.5	903.5	904.4	905.3
155°	909.4	908.7	909.6	911.5	913.4	915.3	917.2	918.2	919.1	920.1	921.0
157.5°	925.0	924.4	925.1	926.5	928.0	929.4	930.8	931.9	933.0	934.1	935.2
160°	939.1	938.6	939.1	940.0	941.0	941.9	942.9	943.8	944.8	945.7	946.6
162.5°	950.5	950.0	950.4	951.2	952.0	952.8	953.6	954.7	955.8	956.9	958.0
165°	960.5	960.0	960.2	960.7	961.2	961.6	962.1	963.2	964.3	965.4	966.5
167.5°	968.3	967.8	968.0	968.5	969.0	969.4	969.9	971.0	972.1	973.2	974.3
170°	974.7	974.2	974.4	974.7	975.0	975.3	975.6	976.7	977.8	978.9	980.0
172.5°	979.0	978.5	978.7	979.0	979.3	979.6	979.9	981.0	982.1	983.2	984.3
175°	981.9	981.3	981.5	981.8	982.1	982.5	982.8	983.9	985.0	986.1	987.2
177.5°	983.3	982.8	982.9	983.0	983.2	983.3	983.5	984.6	985.7	986.8	987.9
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	17.8	18.0	18.3	18.6	18.9	19.2	18.9	18.6	18.3	18.0	17.8
92.5°	18.5	18.6	18.7	18.9	19.0	19.2	19.0	18.9	18.7	18.6	18.5
95°	31.3	31.2	31.1	30.9	30.8	30.6	30.8	30.9	31.1	31.2	31.3
97.5°	38.5	38.6	38.7	38.9	39.0	39.2	39.0	38.9	38.7	38.6	38.5
100°	46.3	46.5	46.8	47.1	47.4	47.7	47.4	47.1	46.8	46.5	46.3
102.5°	49.8	50.0	50.5	51.0	51.5	52.0	51.5	51.0	50.5	50.0	49.8
105°	51.3	51.6	52.2	52.9	53.5	54.1	53.5	52.9	52.2	51.6	51.3
107.5°	52.7	53.0	53.6	54.3	54.9	55.5	54.9	54.3	53.6	53.0	52.7
110°	53.4	53.7	54.4	55.0	55.7	56.3	55.7	55.0	54.4	53.7	53.4

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	54.8	55.0	55.5	56.0	56.5	57.0	56.5	56.0	55.5	55.0	54.8
115°	109.7	104.0	92.6	81.2	69.8	58.4	69.8	81.2	92.6	104.0	109.7
117.5°	376.0	355.3	313.8	272.3	230.9	189.4	230.9	272.3	313.8	355.3	376.0
120°	530.5	519.8	498.5	477.1	455.8	434.4	455.8	477.1	498.5	519.8	530.5
122.5°	568.3	568.4	568.5	568.7	568.8	569.0	568.8	568.7	568.5	568.4	568.3
125°	606.7	606.9	607.4	607.9	608.4	608.9	608.4	607.9	607.4	606.9	606.7
127.5°	643.8	643.9	644.0	644.2	644.3	644.5	644.3	644.2	644.0	643.9	643.8
130°	678.0	677.9	677.7	677.6	677.4	677.2	677.4	677.6	677.7	677.9	678.0
132.5°	710.0	709.9	709.8	709.6	709.5	709.3	709.5	709.6	709.8	709.9	710.0
135°	741.3	741.1	740.8	740.5	740.2	739.9	740.2	740.5	740.8	741.1	741.3
137.5°	770.5	770.3	769.8	769.3	768.9	768.4	768.9	769.3	769.8	770.3	770.5
140°	798.3	797.9	797.1	796.3	795.5	794.7	795.5	796.3	797.1	797.9	798.3
142.5°	823.9	823.5	822.7	822.0	821.2	820.4	821.2	822.0	822.7	823.5	823.9
145°	847.4	847.0	846.2	845.5	844.7	843.9	844.7	845.5	846.2	847.0	847.4
147.5°	868.1	867.8	867.2	866.5	865.9	865.3	865.9	866.5	867.2	867.8	868.1
150°	888.0	887.6	886.8	886.1	885.3	884.5	885.3	886.1	886.8	887.6	888.0
152.5°	905.8	905.3	904.2	903.1	902.0	900.9	902.0	903.1	904.2	905.3	905.8
155°	921.5	920.9	919.6	918.3	917.1	915.8	917.1	918.3	919.6	920.9	921.5
157.5°	935.8	935.2	933.9	932.6	931.4	930.1	931.4	932.6	933.9	935.2	935.8
160°	947.1	946.6	945.5	944.4	943.3	942.2	943.3	944.4	945.5	946.6	947.1
162.5°	958.5	957.8	956.4	954.9	953.5	952.1	953.5	954.9	956.4	957.8	958.5
165°	967.1	966.5	965.4	964.3	963.2	962.1	963.2	964.3	965.4	966.5	967.1
167.5°	974.9	974.2	972.8	971.3	969.9	968.5	969.9	971.3	972.8	974.2	974.9
170°	980.6	979.9	978.5	977.0	975.6	974.2	975.6	977.0	978.5	979.9	980.6
172.5°	984.9	984.2	982.8	981.3	979.9	978.5	979.9	981.3	982.8	984.2	984.9
175°	987.7	986.9	985.3	983.8	982.2	980.6	982.2	983.8	985.3	986.9	987.7
177.5°	988.5	987.8	986.3	984.9	983.4	982.0	983.4	984.9	986.3	987.8	988.5
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	17.4	16.6	15.8	15.0	14.2	12.9	11.7	10.4	9.1	8.5	7.6
92.5°	18.3	18.0	17.7	17.4	17.1	16.6	16.2	15.7	15.2	15.0	15.3
95°	30.9	30.1	29.4	28.6	27.8	26.7	25.6	24.5	23.4	22.8	25.4
97.5°	38.3	37.8	37.3	36.8	36.3	33.8	31.2	28.7	26.2	24.9	31.4
100°	45.7	44.4	43.1	41.9	40.6	37.9	35.2	32.5	29.8	28.5	39.3
102.5°	48.9	47.2	45.5	43.7	42.0	70.8	99.6	128.4	157.2	171.6	171.8
105°	50.4	48.7	46.9	45.2	43.4	86.6	129.8	173.1	216.3	237.9	235.5
107.5°	51.8	50.1	48.4	46.6	44.9	98.2	151.6	204.9	258.2	284.9	282.9
110°	61.3	77.1	93.0	108.8	124.6	170.3	216.1	261.8	307.5	330.4	328.7

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	88.9	157.1	225.4	293.6	361.8	364.5	367.2	369.9	372.6	373.9	372.5
115°	146.3	219.6	292.9	366.1	439.4	435.4	431.5	427.5	423.6	421.6	420.3
117.5°	387.3	409.9	432.6	455.2	477.8	475.1	472.4	469.7	467.0	465.7	464.1
120°	529.6	527.7	525.8	523.9	522.0	519.2	516.3	513.5	510.6	509.2	508.0
122.5°	567.8	566.9	565.9	565.0	564.0	560.8	557.7	554.5	551.4	549.8	548.5
125°	606.2	605.1	604.0	602.9	601.8	598.8	595.8	592.7	589.7	588.2	587.2
127.5°	643.0	641.4	639.9	638.3	636.7	634.3	631.9	629.6	627.2	626.0	624.9
130°	677.1	675.4	673.6	671.9	670.1	668.4	666.6	664.9	663.2	662.3	661.0
132.5°	709.3	707.9	706.4	705.0	703.6	701.9	700.1	698.4	696.7	695.8	694.8
135°	740.5	738.9	737.4	735.8	734.2	732.8	731.4	729.9	728.5	727.8	726.5
137.5°	769.7	768.1	766.6	765.0	763.4	761.8	760.2	758.7	757.1	756.3	755.3
140°	797.6	796.2	794.7	793.3	791.9	790.2	788.4	786.7	785.0	784.1	783.5
142.5°	823.3	822.0	820.8	819.5	818.3	816.2	814.2	812.1	810.0	809.0	808.4
145°	846.9	845.8	844.7	843.6	842.5	839.8	837.1	834.4	831.7	830.4	830.5
147.5°	867.7	866.9	866.1	865.3	864.5	861.8	859.1	856.4	853.7	852.4	852.6
150°	887.5	886.6	885.7	884.7	883.8	881.3	878.7	876.2	873.7	872.4	873.0
152.5°	905.3	904.4	903.5	902.5	901.6	899.2	896.8	894.5	892.1	890.9	891.5
155°	921.0	920.1	919.1	918.2	917.2	915.3	913.4	911.5	909.6	908.7	909.4
157.5°	935.2	934.1	933.0	931.9	930.8	929.4	928.0	926.5	925.1	924.4	925.0
160°	946.6	945.7	944.8	943.8	942.9	941.9	941.0	940.0	939.1	938.6	939.1
162.5°	958.0	956.9	955.8	954.7	953.6	952.8	952.0	951.2	950.4	950.0	950.5
165°	966.5	965.4	964.3	963.2	962.1	961.6	961.2	960.7	960.2	960.0	960.5
167.5°	974.3	973.2	972.1	971.0	969.9	969.4	969.0	968.5	968.0	967.8	968.3
170°	980.0	978.9	977.8	976.7	975.6	975.3	975.0	974.7	974.4	974.2	974.7
172.5°	984.3	983.2	982.1	981.0	979.9	979.6	979.3	979.0	978.7	978.5	979.0
175°	987.2	986.1	985.0	983.9	982.8	982.5	982.1	981.8	981.5	981.3	981.9
177.5°	987.9	986.8	985.7	984.6	983.5	983.3	983.2	983.0	982.9	982.8	983.3
180°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_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°	5.9	4.2	2.4	0.7
92.5°	15.9	16.6	17.2	17.8
95°	30.6	35.9	41.1	46.3
97.5°	44.4	57.3	70.3	83.3
100°	61.0	82.7	104.3	126.0
102.5°	172.1	172.4	172.8	173.1
105°	230.8	226.0	221.3	216.5
107.5°	279.0	275.0	271.1	267.1
110°	325.4	322.1	318.8	315.5

TEST NUMBER: P1029397

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	369.6	366.8	363.9	361.1
115°	417.6	414.9	412.2	409.5
117.5°	461.0	457.8	454.7	451.5
120°	505.6	503.3	500.9	498.5
122.5°	546.0	543.5	540.9	538.4
125°	585.1	583.1	581.0	579.0
127.5°	622.7	620.4	618.2	616.0
130°	658.5	656.0	653.4	650.9
132.5°	692.7	690.6	688.6	686.5
135°	724.0	721.5	718.9	716.4
137.5°	753.4	751.5	749.6	747.7
140°	782.2	780.9	779.7	778.4
142.5°	807.3	806.2	805.1	804.0
145°	830.6	830.8	830.9	831.1
147.5°	853.1	853.6	854.1	854.6
150°	874.1	875.2	876.3	877.4
152.5°	892.8	894.1	895.3	896.6
155°	910.8	912.3	913.7	915.1
157.5°	926.3	927.6	928.8	930.1
160°	940.0	941.0	941.9	942.9
162.5°	951.4	952.4	953.3	954.3
165°	961.4	962.3	963.3	964.2
167.5°	969.2	970.2	971.1	972.1
170°	975.6	976.6	977.5	978.5
172.5°	979.9	980.9	981.8	982.8
175°	983.0	984.1	985.2	986.3
177.5°	984.4	985.5	986.6	987.7
180°	984.2	984.2	984.2	984.2

(END OF REPORT)