

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: P1029400

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029400
REPORT IS A COMBINATION OF REPORTS P985761 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

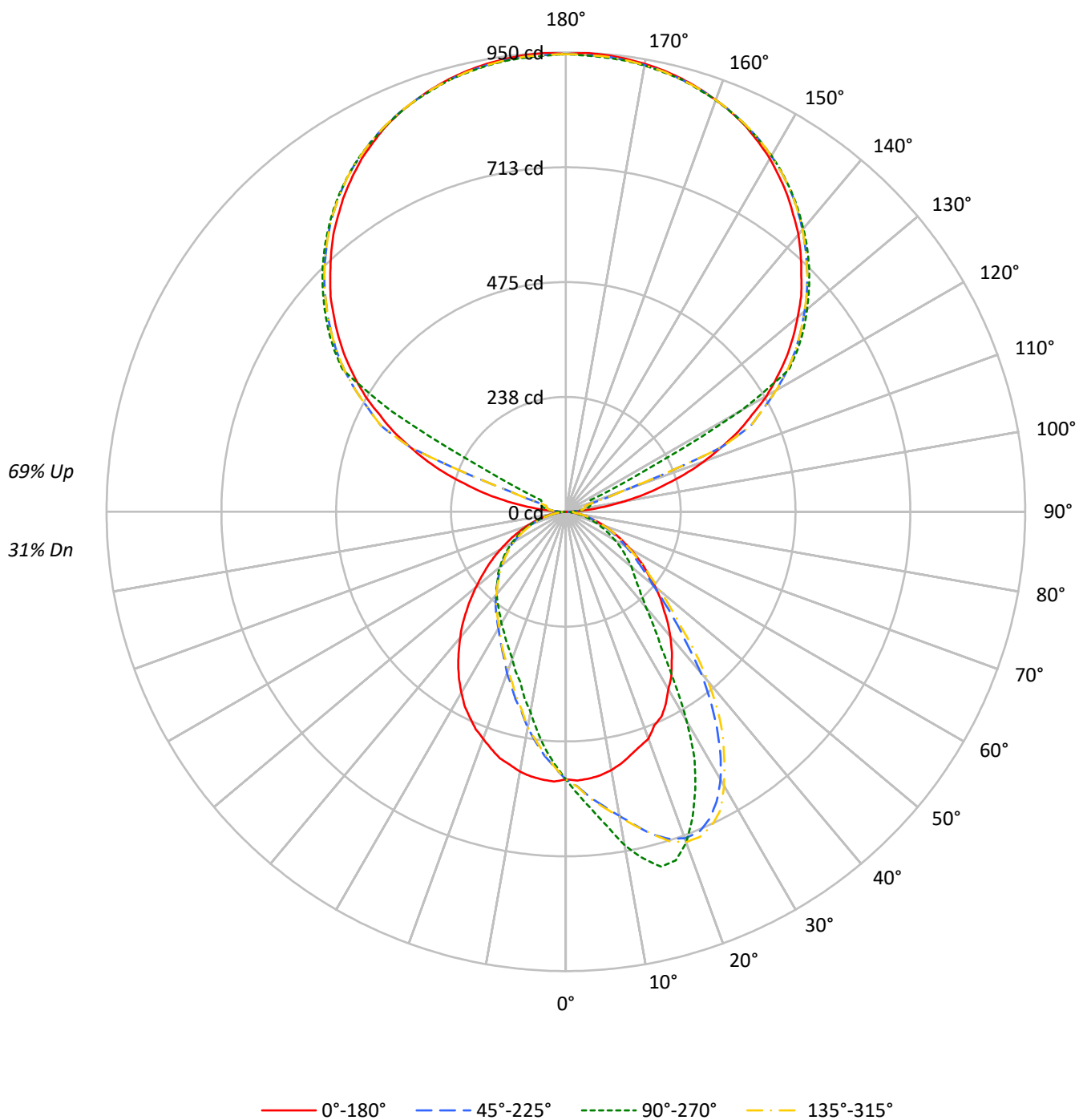
Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	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°	8760	8760	8760	8760
5°	8781	9341	8815	7431
10°	8680	10197	8734	6127
15°	8468	10755	8587	5160
20°	8337	10098	8337	4486
25°	8071	8676	8107	4012
30°	7634	6819	7780	3633
35°	7247	4716	7367	3324
40°	6800	3561	6879	3078
45°	6253	2926	6355	2812
50°	5778	2568	5787	2574
55°	5236	2188	5271	2316
60°	4661	1828	4725	2021
65°	4145	1487	4220	1726
70°	3629	1166	3720	1392
75°	3043	846	3166	1009
80°	2379	536	2547	599
85°	1568	270	1681	200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.3
10°-20°	153.4	3.8
20°-30°	222.7	5.6
30°-40°	234.7	5.9
40°-50°	207.7	5.2
50°-60°	165.9	4.1
60°-70°	112.7	2.8
70°-80°	57.6	1.4
80°-90°	15.3	0.4
90°-100°	31.2	0.8
100°-110°	116.3	2.9
110°-120°	308.5	7.7
120°-130°	511.7	12.8
130°-140°	543.5	13.6
140°-150°	505.2	12.6
150°-160°	406.1	10.2
160°-170°	261.7	6.5
170°-180°	90.1	2.3
0°-30°	428.8	10.7
0°-40°	663.5	16.6
0°-60°	1037.1	25.9
0°-90°	1222.7	30.6
90°-120°	456.1	11.4
90°-150°	2016.4	50.4
90°-180°	2774.0	69.4
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	553	553	553	553	553	
5°	554	618	556	492	554	53
15°	520	760	528	364	520	147
25°	468	633	470	293	468	214
35°	382	345	388	243	382	239
45°	286	208	291	200	286	222
55°	196	146	198	154	196	175
65°	117	90	119	104	117	116
75°	54	44	57	53	54	58
85°	11	12	12	8	11	13
90°	1	18	1	18	1	3
95°	44	29	44	29	44	53
105°	208	52	208	52	208	222
115°	394	56	394	56	394	388
125°	557	586	557	586	557	497
135°	689	712	689	712	689	532
145°	799	811	799	811	799	500
155°	880	881	880	881	880	405
165°	927	925	927	925	927	262
175°	948	943	948	943	948	90
180°	946	946	946	946	946	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	556.4	557.7	559.8	560.2	564.5	567.9	571.7	571.7	573.0	572.6	569.2
5°	553.8	557.7	563.2	567.9	575.5	578.9	584.0	587.9	591.3	593.8	593.4
7.5°	549.6	556.4	564.5	573.4	583.6	589.6	596.8	603.6	608.3	612.5	615.5
10°	542.4	553.8	564.9	576.8	590.0	598.1	606.6	615.5	622.8	630.8	638.5
12.5°	532.6	549.2	562.8	578.5	594.7	603.6	617.2	624.0	638.1	658.5	664.0
15°	520.2	542.8	555.5	575.5	596.8	604.0	622.8	633.8	662.7	675.5	690.8
17.5°	508.7	533.8	550.9	573.8	594.7	608.7	627.0	649.5	673.8	692.1	709.1
20°	499.4	523.6	544.1	569.6	596.0	613.8	633.0	660.2	686.6	705.3	718.5
22.5°	478.1	509.2	533.0	561.5	593.4	618.1	636.4	666.1	694.6	706.1	717.6
25°	467.5	494.3	521.9	554.3	591.7	621.0	636.8	670.0	695.1	699.3	701.9
27.5°	447.9	478.1	510.5	547.5	591.3	615.9	635.9	666.1	686.1	683.2	675.5
30°	423.7	460.7	496.4	536.4	585.3	612.1	630.8	658.5	668.7	653.4	639.8
32.5°	405.8	440.7	480.2	526.6	578.5	604.0	622.3	644.0	646.1	618.5	595.5
35°	381.6	420.3	464.9	513.9	567.0	590.0	607.0	620.2	610.0	571.3	544.1
37.5°	359.9	398.2	445.8	495.6	551.3	573.8	587.4	589.6	564.5	530.4	490.5
40°	336.0	375.6	425.4	477.7	533.8	553.4	561.9	555.5	519.4	479.8	433.5
42.5°	312.2	351.4	405.0	458.6	511.7	528.3	531.7	514.3	470.0	423.7	370.1
45°	286.3	327.1	380.7	434.7	486.2	495.6	496.0	470.9	418.6	370.1	320.3
47.5°	265.0	302.9	356.0	410.1	453.5	459.8	457.3	428.4	371.4	316.9	273.5
50°	241.6	277.8	330.5	383.7	420.7	422.4	416.0	374.8	319.0	269.3	234.8
52.5°	216.5	253.1	301.6	352.6	385.8	383.3	370.9	326.7	274.4	233.1	206.7
55°	196.5	228.9	274.4	324.1	347.5	340.3	326.7	281.6	240.3	205.5	182.5
57.5°	174.4	202.9	247.6	291.0	304.6	297.8	284.2	242.0	203.8	177.4	162.1
60°	153.6	179.5	218.6	254.8	265.4	258.2	242.5	204.6	177.0	154.8	143.4
62.5°	134.4	157.0	189.7	222.9	227.2	219.9	206.3	175.7	151.9	134.4	125.9
65°	116.6	137.8	164.2	189.3	193.1	185.5	171.4	149.3	129.3	118.3	110.2
67.5°	99.1	116.1	139.5	157.8	159.9	152.7	141.2	123.4	111.0	99.1	93.2
70°	83.8	96.6	114.9	129.7	130.6	123.8	117.8	101.7	92.3	83.8	79.1
72.5°	68.9	77.8	91.9	102.9	103.4	99.1	93.6	83.4	75.3	69.3	64.7
75°	54.4	62.1	70.6	80.4	80.0	76.6	72.3	65.9	59.1	55.3	53.2
77.5°	41.7	46.4	53.2	59.6	59.6	57.9	55.3	50.6	46.4	42.5	40.4
80°	29.8	32.8	38.3	40.4	41.3	40.8	38.7	35.3	33.6	30.6	29.8
82.5°	19.1	21.3	23.8	25.9	27.2	26.4	25.9	24.2	21.7	20.8	20.0
85°	11.1	11.9	13.2	14.5	14.9	14.5	15.3	14.0	12.8	12.8	12.3
87.5°	4.7	5.1	6.0	6.0	6.4	6.4	6.0	6.4	6.4	6.0	5.5
90°	0.7	2.4	4.0	5.7	7.4	8.2	8.8	10.0	11.3	12.5	13.7
92.5°	17.1	16.5	15.9	15.3	14.7	14.4	14.6	15.1	15.5	16.0	16.4
95°	44.5	39.5	34.5	29.4	24.4	21.9	22.4	23.5	24.6	25.6	26.7
97.5°	80.1	67.6	55.2	42.7	30.2	24.0	25.2	27.6	30.1	32.5	34.9
100°	121.2	100.4	79.5	58.7	37.8	27.4	28.7	31.3	33.8	36.4	39.0
102.5°	166.4	166.1	165.8	165.5	165.2	165.0	151.2	123.5	95.8	68.1	40.4
105°	208.2	212.8	217.3	221.9	226.4	228.7	207.9	166.4	124.9	83.3	41.8
107.5°	256.8	260.6	264.4	268.2	272.0	273.9	248.3	197.0	145.7	94.4	43.1
110°	303.3	306.5	309.7	312.9	316.1	317.7	295.7	251.7	207.8	163.8	119.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	347.2	349.9	352.7	355.4	358.1	359.5	358.2	355.6	353.1	350.5	347.9
115°	393.7	396.3	398.9	401.5	404.1	405.4	407.3	411.1	414.9	418.7	422.5
117.5°	434.1	437.1	440.2	443.2	446.3	447.8	449.1	451.7	454.3	456.9	459.5
120°	479.3	481.6	483.9	486.2	488.5	489.6	491.0	493.7	496.4	499.2	501.9
122.5°	517.7	520.1	522.5	525.0	527.4	528.6	530.1	533.2	536.2	539.3	542.3
125°	556.7	558.7	560.7	562.6	564.6	565.6	567.0	569.9	572.8	575.7	578.6
127.5°	592.3	594.4	596.6	598.7	600.8	601.9	603.0	605.3	607.6	609.9	612.2
130°	625.9	628.3	630.7	633.2	635.6	636.8	637.6	639.3	641.0	642.7	644.4
132.5°	660.1	662.1	664.1	666.0	668.0	669.0	669.8	671.5	673.2	674.8	676.5
135°	688.9	691.3	693.7	696.2	698.6	699.8	700.5	701.9	703.2	704.6	706.0
137.5°	719.0	720.8	722.6	724.5	726.3	727.2	728.0	729.5	731.0	732.6	734.1
140°	748.4	749.6	750.8	752.1	753.3	753.9	754.7	756.4	758.1	759.8	761.5
142.5°	773.1	774.2	775.2	776.3	777.4	777.9	778.9	780.9	782.8	784.8	786.8
145°	799.1	798.9	798.8	798.6	798.5	798.4	799.7	802.3	804.9	807.5	810.1
147.5°	821.7	821.3	820.8	820.4	819.9	819.7	821.0	823.6	826.1	828.7	831.3
150°	843.6	842.5	841.5	840.4	839.3	838.8	840.0	842.5	844.9	847.4	849.8
152.5°	862.1	860.9	859.7	858.4	857.2	856.6	857.7	860.0	862.3	864.6	866.9
155°	879.9	878.5	877.2	875.8	874.5	873.8	874.7	876.5	878.4	880.2	882.0
157.5°	894.3	893.1	891.9	890.6	889.4	888.8	889.5	890.9	892.2	893.6	895.0
160°	906.6	905.7	904.8	903.9	903.0	902.5	903.0	903.9	904.8	905.7	906.6
162.5°	917.6	916.7	915.8	914.9	914.0	913.5	913.9	914.6	915.4	916.1	916.9
165°	927.2	926.3	925.4	924.5	923.6	923.1	923.3	923.8	924.2	924.7	925.1
167.5°	934.7	933.8	932.9	932.0	931.1	930.6	930.8	931.3	931.7	932.2	932.6
170°	940.9	940.0	939.1	938.2	937.3	936.8	936.9	937.2	937.5	937.8	938.1
172.5°	945.0	944.1	943.2	942.3	941.4	940.9	941.0	941.3	941.6	941.9	942.2
175°	948.4	947.3	946.3	945.2	944.1	943.6	943.8	944.1	944.4	944.7	945.0
177.5°	949.8	948.7	947.7	946.6	945.5	945.0	945.1	945.2	945.4	945.5	945.7
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	575.1	575.5	576.4	580.6	582.8	583.2	581.5	585.3	586.6	585.3	584.5
5°	602.3	604.9	610.0	615.5	615.1	615.5	618.1	620.6	621.5	618.1	619.3
7.5°	626.2	631.3	636.8	645.3	645.3	649.5	651.3	653.4	658.5	655.9	655.1
10°	653.4	660.2	670.4	684.0	684.4	688.7	692.9	699.7	701.9	700.2	701.0
12.5°	687.4	700.6	701.4	716.3	723.1	724.0	730.8	729.5	733.8	733.8	741.0
15°	702.3	722.7	734.2	748.7	752.9	747.8	753.3	759.3	759.7	759.7	759.3
17.5°	729.1	737.2	748.7	756.3	758.0	758.0	758.4	761.0	759.3	755.9	758.4
20°	734.6	738.0	742.3	741.4	742.3	738.0	733.8	729.5	729.9	727.8	734.2
22.5°	724.4	723.6	713.8	707.4	707.4	698.9	690.8	687.0	683.2	684.4	686.6
25°	698.9	685.7	673.8	664.4	662.3	648.7	637.6	634.2	627.9	633.0	633.8
27.5°	658.1	643.2	624.0	615.9	604.9	599.4	591.7	581.5	568.3	576.0	574.7
30°	614.2	592.1	576.4	556.8	539.4	538.1	523.6	506.6	499.8	499.8	503.6
32.5°	565.3	536.0	513.0	485.4	468.3	461.1	443.7	426.7	430.5	417.7	422.4
35°	508.3	469.6	440.7	413.9	401.1	392.6	370.1	360.7	350.5	344.6	355.6
37.5°	453.9	409.2	372.2	342.9	338.2	322.9	307.5	301.6	295.6	298.2	297.8
40°	387.5	348.0	314.8	291.8	283.7	276.5	266.3	259.1	255.2	257.4	257.8
42.5°	327.5	294.4	269.7	253.5	246.7	241.6	236.5	230.6	229.3	229.3	231.0
45°	281.2	253.9	237.4	224.2	220.3	216.5	212.7	210.1	209.3	207.6	208.9
47.5°	244.2	222.5	212.3	202.5	198.2	197.4	194.0	192.7	191.0	190.6	191.0
50°	213.1	199.5	190.1	184.6	181.6	180.4	178.7	176.1	175.3	177.4	176.5
52.5°	191.4	178.7	173.6	168.0	166.3	164.6	162.1	162.5	162.1	161.2	161.2
55°	169.7	161.6	156.5	152.3	151.9	150.2	148.0	147.2	146.8	145.9	147.2
57.5°	152.3	145.9	141.2	137.4	135.7	135.7	133.6	131.9	131.9	131.4	131.9
60°	134.8	128.5	125.5	121.7	120.4	120.0	118.7	117.8	116.6	116.6	116.6
62.5°	118.7	113.6	110.2	106.8	107.2	105.1	103.4	102.5	102.5	102.9	102.9
65°	103.4	100.0	95.7	92.7	91.9	91.5	90.6	90.2	88.9	89.8	89.8
67.5°	89.3	84.6	82.1	80.8	79.5	79.1	78.3	77.4	77.0	76.6	77.4
70°	75.3	71.5	69.3	68.5	67.2	66.8	66.4	65.1	65.5	65.9	66.4
72.5°	62.5	59.1	58.7	56.1	56.1	56.1	54.4	55.3	54.9	54.0	54.9
75°	49.3	47.6	46.8	45.5	45.9	45.5	45.1	43.8	43.8	44.2	44.7
77.5°	39.1	37.4	37.0	35.7	34.9	35.7	34.9	34.5	34.5	34.9	34.9
80°	28.9	28.1	26.8	26.8	26.8	26.4	26.4	26.4	25.9	25.5	25.9
82.5°	19.1	19.1	18.7	18.3	18.7	17.9	18.3	18.3	18.3	18.3	18.3
85°	12.3	11.9	11.9	11.5	11.5	11.5	11.9	11.1	11.1	11.5	11.5
87.5°	5.5	5.5	5.5	6.0	5.5	5.5	5.5	6.0	5.5	5.5	5.5
90°	14.5	15.2	16.0	16.7	17.1	17.3	17.6	17.9	18.2	18.5	18.2
92.5°	16.7	17.0	17.3	17.6	17.8	17.9	18.0	18.2	18.3	18.5	18.3
95°	27.5	28.2	29.0	29.7	30.1	30.0	29.9	29.7	29.6	29.4	29.6
97.5°	35.4	35.8	36.3	36.8	37.0	37.1	37.2	37.4	37.5	37.7	37.5
100°	40.2	41.4	42.7	43.9	44.5	44.7	45.0	45.3	45.6	45.9	45.6
102.5°	42.1	43.7	45.4	47.1	47.9	48.1	48.6	49.1	49.5	50.0	49.5
105°	43.5	45.1	46.8	48.5	49.3	49.6	50.2	50.8	51.4	52.0	51.4
107.5°	44.8	46.5	48.2	49.9	50.7	51.0	51.6	52.2	52.8	53.4	52.8
110°	104.6	89.4	74.2	59.0	51.4	51.7	52.3	52.9	53.5	54.1	53.5

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	282.3	216.7	151.1	85.5	52.7	52.9	53.4	53.9	54.3	54.8	54.3
115°	352.1	281.6	211.2	140.7	105.5	100.0	89.1	78.1	67.2	56.2	67.2
117.5°	437.7	416.0	394.2	372.5	361.6	341.7	301.8	261.9	222.0	182.1	222.0
120°	503.7	505.5	507.4	509.2	510.1	499.8	479.3	458.8	438.2	417.7	438.2
122.5°	543.2	544.1	545.0	545.9	546.4	546.5	546.6	546.8	546.9	547.1	546.9
125°	579.7	580.7	581.8	582.9	583.4	583.6	584.1	584.6	585.0	585.5	585.0
127.5°	613.7	615.2	616.7	618.2	619.0	619.1	619.2	619.4	619.5	619.7	619.5
130°	646.1	647.7	649.4	651.1	651.9	651.8	651.7	651.5	651.4	651.2	651.4
132.5°	677.9	679.3	680.6	682.0	682.7	682.6	682.5	682.3	682.2	682.0	682.2
135°	707.5	709.0	710.5	712.0	712.8	712.7	712.4	712.1	711.8	711.5	711.8
137.5°	735.6	737.1	738.6	740.1	740.9	740.7	740.2	739.8	739.3	738.9	739.3
140°	762.9	764.2	765.6	766.9	767.6	767.2	766.5	765.7	765.0	764.2	765.0
142.5°	788.0	789.2	790.5	791.7	792.3	791.9	791.1	790.4	789.6	788.8	789.6
145°	811.2	812.2	813.3	814.4	814.9	814.5	813.7	813.0	812.2	811.4	812.2
147.5°	832.1	832.8	833.6	834.3	834.7	834.4	833.8	833.2	832.6	832.0	832.6
150°	850.7	851.6	852.5	853.4	853.9	853.5	852.8	852.0	851.3	850.5	851.3
152.5°	867.8	868.7	869.6	870.5	871.0	870.5	869.4	868.3	867.3	866.2	867.3
155°	882.9	883.8	884.7	885.6	886.1	885.5	884.3	883.0	881.8	880.6	881.8
157.5°	896.1	897.1	898.2	899.3	899.8	899.2	898.0	896.7	895.5	894.3	895.5
160°	907.5	908.4	909.3	910.2	910.7	910.2	909.1	908.0	907.0	905.9	907.0
162.5°	918.0	919.0	920.1	921.2	921.7	921.0	919.6	918.3	916.9	915.5	916.9
165°	926.2	927.2	928.3	929.4	929.9	929.4	928.3	927.2	926.2	925.1	926.2
167.5°	933.7	934.7	935.8	936.9	937.4	936.7	935.4	934.0	932.7	931.3	932.7
170°	939.2	940.2	941.3	942.4	942.9	942.2	940.9	939.5	938.2	936.8	938.2
172.5°	943.3	944.3	945.4	946.5	947.0	946.3	945.0	943.6	942.3	940.9	942.3
175°	946.1	947.1	948.2	949.3	949.8	949.0	947.5	946.0	944.4	942.9	944.4
177.5°	946.7	947.8	948.8	949.9	950.4	949.7	948.4	947.0	945.7	944.3	945.7
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

TEST NUMBER: P1029400

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	586.6	583.6	581.1	581.5	583.6	581.9	577.7	572.1	570.0	567.5	570.0
5°	621.9	619.3	614.2	614.7	613.4	611.7	604.9	596.4	596.4	589.6	588.7
7.5°	656.8	653.0	649.5	648.7	644.0	640.6	634.7	622.8	618.1	610.0	605.3
10°	695.9	692.9	689.1	684.4	681.9	675.9	666.1	648.7	640.2	629.1	621.0
12.5°	735.5	735.0	726.5	717.2	716.8	707.4	700.6	677.2	665.7	650.8	631.7
15°	760.6	758.4	753.8	749.1	750.4	740.2	724.8	697.2	689.5	671.7	651.3
17.5°	760.1	760.1	758.9	758.0	756.7	753.8	745.3	727.0	714.6	692.1	672.9
20°	735.9	741.4	742.7	742.3	746.5	748.7	748.2	736.8	727.0	707.0	687.4
22.5°	687.4	700.2	705.7	709.1	718.0	722.7	733.8	729.5	727.0	712.1	695.5
25°	642.3	646.6	663.2	664.0	676.3	687.8	698.9	706.1	715.5	710.0	695.9
27.5°	584.0	593.8	605.7	614.7	617.2	640.6	658.9	672.5	693.8	695.5	690.8
30°	518.1	522.8	542.4	554.3	567.9	584.9	611.3	634.7	653.8	671.2	677.2
32.5°	437.7	456.9	468.3	482.8	494.7	524.9	557.2	587.4	609.6	638.9	651.7
35°	364.1	379.0	398.6	404.5	426.2	451.7	493.9	532.6	566.2	596.0	621.9
37.5°	303.3	315.2	336.0	345.4	358.2	390.9	426.2	474.3	514.7	551.3	583.6
40°	261.6	270.5	286.3	289.3	299.9	329.7	358.2	403.3	456.9	506.2	541.5
42.5°	233.1	237.4	248.0	251.8	258.6	278.6	304.1	346.7	396.5	447.5	497.3
45°	212.7	215.7	222.0	225.4	234.0	242.9	263.7	297.8	336.9	388.4	442.0
47.5°	194.4	198.2	200.8	202.9	207.6	217.4	231.0	256.1	293.5	340.7	392.6
50°	179.1	180.4	185.0	185.5	188.4	194.8	207.6	222.9	252.7	291.0	341.2
52.5°	163.8	165.0	168.0	171.0	172.3	177.4	185.9	198.7	220.8	251.0	295.6
55°	148.5	150.2	153.1	155.3	156.5	160.8	165.9	178.2	195.7	216.9	253.5
57.5°	133.1	137.0	137.8	139.1	141.2	145.9	150.6	157.8	171.4	191.0	217.8
60°	118.7	120.0	122.9	124.2	126.3	128.9	134.8	140.4	150.2	165.5	189.7
62.5°	103.8	106.8	108.0	109.3	111.0	114.0	117.8	123.8	132.3	144.6	163.8
65°	91.0	91.5	94.0	95.7	97.4	99.5	103.4	108.9	114.0	125.5	139.5
67.5°	78.7	79.5	80.4	82.1	84.2	86.4	89.8	92.7	99.1	106.8	117.8
70°	66.8	66.8	68.9	70.2	69.8	72.3	74.9	78.3	82.9	90.2	99.1
72.5°	56.1	55.7	57.4	57.9	58.7	60.4	62.1	65.5	68.1	73.6	80.4
75°	44.7	45.5	46.4	46.4	47.6	48.9	50.6	52.3	55.3	58.7	63.8
77.5°	35.3	35.3	36.2	36.6	37.9	37.4	39.1	40.8	43.0	45.9	49.8
80°	25.9	26.8	26.8	26.8	27.2	27.6	29.4	30.6	31.9	34.0	35.7
82.5°	18.3	18.3	19.1	19.1	19.1	20.0	20.0	20.4	21.3	22.5	23.8
85°	11.5	11.5	11.5	11.9	11.5	11.9	12.8	12.3	12.8	13.6	13.6
87.5°	5.5	5.5	5.5	5.5	5.5	6.0	5.5	6.0	6.4	6.4	6.4
90°	17.9	17.6	17.3	17.1	16.7	16.0	15.2	14.5	13.7	12.5	11.3
92.5°	18.2	18.0	17.9	17.8	17.6	17.3	17.0	16.7	16.4	16.0	15.5
95°	29.7	29.9	30.0	30.1	29.7	29.0	28.2	27.5	26.7	25.6	24.6
97.5°	37.4	37.2	37.1	37.0	36.8	36.3	35.8	35.4	34.9	32.5	30.1
100°	45.3	45.0	44.7	44.5	43.9	42.7	41.4	40.2	39.0	36.4	33.8
102.5°	49.1	48.6	48.1	47.9	47.1	45.4	43.7	42.1	40.4	38.1	35.8
105°	50.8	50.2	49.6	49.3	48.5	46.8	45.1	43.5	41.8	39.3	36.8
107.5°	52.2	51.6	51.0	50.7	49.9	48.2	46.5	44.8	43.1	40.4	37.7
110°	52.9	52.3	51.7	51.4	50.0	48.2	46.5	44.8	43.1	40.4	37.7

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	53.9	53.4	52.9	52.7	85.5	151.1	216.7	282.3	347.9	350.5	353.1
115°	78.1	89.1	100.0	105.5	140.7	211.2	281.6	352.1	422.5	418.7	414.9
117.5°	261.9	301.8	341.7	361.6	372.5	394.2	416.0	437.7	459.5	456.9	454.3
120°	458.8	479.3	499.8	510.1	509.2	507.4	505.5	503.7	501.9	499.2	496.4
122.5°	546.8	546.6	546.5	546.4	545.9	545.0	544.1	543.2	542.3	539.3	536.2
125°	584.6	584.1	583.6	583.4	582.9	581.8	580.7	579.7	578.6	575.7	572.8
127.5°	619.4	619.2	619.1	619.0	618.2	616.7	615.2	613.7	612.2	609.9	607.6
130°	651.5	651.7	651.8	651.9	651.1	649.4	647.7	646.1	644.4	642.7	641.0
132.5°	682.3	682.5	682.6	682.7	682.0	680.6	679.3	677.9	676.5	674.8	673.2
135°	712.1	712.4	712.7	712.8	712.0	710.5	709.0	707.5	706.0	704.6	703.2
137.5°	739.8	740.2	740.7	740.9	740.1	738.6	737.1	735.6	734.1	732.6	731.0
140°	765.7	766.5	767.2	767.6	766.9	765.6	764.2	762.9	761.5	759.8	758.1
142.5°	790.4	791.1	791.9	792.3	791.7	790.5	789.2	788.0	786.8	784.8	782.8
145°	813.0	813.7	814.5	814.9	814.4	813.3	812.2	811.2	810.1	807.5	804.9
147.5°	833.2	833.8	834.4	834.7	834.3	833.6	832.8	832.1	831.3	828.7	826.1
150°	852.0	852.8	853.5	853.9	853.4	852.5	851.6	850.7	849.8	847.4	844.9
152.5°	868.3	869.4	870.5	871.0	870.5	869.6	868.7	867.8	866.9	864.6	862.3
155°	883.0	884.3	885.5	886.1	885.6	884.7	883.8	882.9	882.0	880.2	878.4
157.5°	896.7	898.0	899.2	899.8	899.3	898.2	897.1	896.1	895.0	893.6	892.2
160°	908.0	909.1	910.2	910.7	910.2	909.3	908.4	907.5	906.6	905.7	904.8
162.5°	918.3	919.6	921.0	921.7	921.2	920.1	919.0	918.0	916.9	916.1	915.4
165°	927.2	928.3	929.4	929.9	929.4	928.3	927.2	926.2	925.1	924.7	924.2
167.5°	934.0	935.4	936.7	937.4	936.9	935.8	934.7	933.7	932.6	932.2	931.7
170°	939.5	940.9	942.2	942.9	942.4	941.3	940.2	939.2	938.1	937.8	937.5
172.5°	943.6	945.0	946.3	947.0	946.5	945.4	944.3	943.3	942.2	941.9	941.6
175°	946.0	947.5	949.0	949.8	949.3	948.2	947.1	946.1	945.0	944.7	944.4
177.5°	947.0	948.4	949.7	950.4	949.9	948.8	947.8	946.7	945.7	945.5	945.4
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	567.9	565.7	564.5	565.3	562.8	556.4	556.4	558.5	556.0	553.4	549.6
5°	583.6	579.4	576.8	576.4	570.4	560.2	558.1	556.0	550.4	544.5	538.1
7.5°	598.9	591.3	587.0	584.0	575.5	562.3	556.8	552.1	543.2	534.3	526.2
10°	611.7	600.6	595.5	590.8	579.8	563.2	554.3	545.8	534.3	522.8	512.6
12.5°	621.9	609.1	602.8	596.0	582.3	560.6	549.6	536.0	524.5	509.2	499.0
15°	638.9	612.5	606.6	600.2	586.2	556.4	542.8	527.5	511.7	491.3	480.2
17.5°	652.5	617.2	616.8	603.2	584.9	554.7	533.8	513.9	496.8	476.4	459.0
20°	660.6	624.5	617.6	603.6	580.6	543.2	521.5	499.4	481.1	456.4	439.0
22.5°	667.4	634.7	616.8	599.8	571.7	539.4	507.5	486.6	461.5	434.7	418.1
25°	670.0	636.8	618.1	598.5	565.3	528.3	492.2	469.6	441.5	417.3	394.7
27.5°	670.4	636.4	613.4	593.0	556.4	513.9	476.8	453.0	422.0	393.9	371.4
30°	666.1	631.7	610.8	588.7	547.9	500.7	458.1	431.8	398.6	370.5	347.1
32.5°	653.4	622.3	605.3	581.1	536.8	482.4	440.3	410.9	376.0	348.4	325.8
35°	632.1	610.8	592.1	569.6	522.4	465.4	422.4	387.9	352.6	326.3	305.0
37.5°	605.7	594.3	576.8	554.7	505.8	450.0	402.4	364.1	328.8	303.3	282.4
40°	570.0	573.0	556.0	536.0	486.2	429.2	376.5	339.9	306.7	282.9	262.5
42.5°	531.3	543.6	533.8	514.7	464.5	406.2	357.3	316.9	284.6	259.9	242.9
45°	489.6	510.9	504.9	490.9	442.0	382.0	330.1	291.0	262.5	238.6	223.7
47.5°	444.1	474.3	474.3	464.1	416.9	357.7	306.7	266.7	238.6	221.6	207.2
50°	397.7	431.8	437.3	430.5	388.8	330.1	278.2	242.0	217.8	201.2	190.6
52.5°	349.2	388.8	399.0	395.6	359.0	303.7	254.8	219.5	197.4	182.9	173.6
55°	302.9	348.8	359.9	361.1	327.1	274.8	228.9	197.8	176.5	166.7	158.7
57.5°	259.1	303.3	315.6	317.8	294.8	248.4	204.6	177.4	158.2	150.2	143.8
60°	221.6	258.6	274.8	279.5	259.5	217.8	182.1	155.7	141.2	133.6	127.6
62.5°	191.0	220.8	237.8	239.1	230.1	191.0	158.7	136.5	124.2	117.4	114.4
65°	161.2	188.0	198.2	203.3	196.1	165.5	137.0	118.7	108.9	102.9	100.0
67.5°	137.4	154.4	162.9	169.7	162.5	139.5	116.6	101.7	94.4	88.5	86.8
70°	112.7	126.8	133.1	139.9	133.6	116.1	99.5	85.9	79.5	74.9	72.7
72.5°	90.2	101.2	107.2	111.4	107.6	93.2	79.5	70.2	65.5	62.1	60.8
75°	71.5	79.1	82.5	85.5	83.8	72.7	64.2	56.6	52.3	49.3	48.5
77.5°	54.4	60.0	63.8	64.7	62.5	55.3	48.1	43.4	40.0	38.3	37.4
80°	38.7	42.1	44.2	45.5	43.4	40.4	35.3	31.9	28.9	26.8	26.4
82.5°	25.9	27.6	29.4	28.9	28.1	25.5	22.5	20.8	19.6	17.9	17.9
85°	14.9	15.3	16.2	16.6	16.2	14.5	12.8	11.9	11.1	9.8	9.8
87.5°	6.4	6.8	6.8	7.2	6.4	6.4	5.5	4.7	4.7	4.3	3.8
90°	10.0	8.8	8.2	7.4	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	15.1	14.6	14.4	14.7	15.3	15.9	16.5	17.1	16.5	15.9	15.3
95°	23.5	22.4	21.9	24.4	29.4	34.5	39.5	44.5	39.5	34.5	29.4
97.5°	27.6	25.2	24.0	30.2	42.7	55.2	67.6	80.1	67.6	55.2	42.7
100°	31.3	28.7	27.4	37.8	58.7	79.5	100.4	121.2	100.4	79.5	58.7
102.5°	123.5	151.2	165.0	165.2	165.5	165.8	166.1	166.4	166.1	165.8	165.5
105°	166.4	207.9	228.7	226.4	221.9	217.3	212.8	208.2	212.8	217.3	221.9
107.5°	197.0	248.3	273.9	272.0	268.2	264.4	260.6	256.8	260.6	264.4	268.2
110°	251.7	295.7	317.7	316.1	312.9	309.7	306.5	303.3	306.5	309.7	312.9

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	355.6	358.2	359.5	358.1	355.4	352.7	349.9	347.2	349.9	352.7	355.4
115°	411.1	407.3	405.4	404.1	401.5	398.9	396.3	393.7	396.3	398.9	401.5
117.5°	451.7	449.1	447.8	446.3	443.2	440.2	437.1	434.1	437.1	440.2	443.2
120°	493.7	491.0	489.6	488.5	486.2	483.9	481.6	479.3	481.6	483.9	486.2
122.5°	533.2	530.1	528.6	527.4	525.0	522.5	520.1	517.7	520.1	522.5	525.0
125°	569.9	567.0	565.6	564.6	562.6	560.7	558.7	556.7	558.7	560.7	562.6
127.5°	605.3	603.0	601.9	600.8	598.7	596.6	594.4	592.3	594.4	596.6	598.7
130°	639.3	637.6	636.8	635.6	633.2	630.7	628.3	625.9	628.3	630.7	633.2
132.5°	671.5	669.8	669.0	668.0	666.0	664.1	662.1	660.1	662.1	664.1	666.0
135°	701.9	700.5	699.8	698.6	696.2	693.7	691.3	688.9	691.3	693.7	696.2
137.5°	729.5	728.0	727.2	726.3	724.5	722.6	720.8	719.0	720.8	722.6	724.5
140°	756.4	754.7	753.9	753.3	752.1	750.8	749.6	748.4	749.6	750.8	752.1
142.5°	780.9	778.9	777.9	777.4	776.3	775.2	774.2	773.1	774.2	775.2	776.3
145°	802.3	799.7	798.4	798.5	798.6	798.8	798.9	799.1	798.9	798.8	798.6
147.5°	823.6	821.0	819.7	819.9	820.4	820.8	821.3	821.7	821.3	820.8	820.4
150°	842.5	840.0	838.8	839.3	840.4	841.5	842.5	843.6	842.5	841.5	840.4
152.5°	860.0	857.7	856.6	857.2	858.4	859.7	860.9	862.1	860.9	859.7	858.4
155°	876.5	874.7	873.8	874.5	875.8	877.2	878.5	879.9	878.5	877.2	875.8
157.5°	890.9	889.5	888.8	889.4	890.6	891.9	893.1	894.3	893.1	891.9	890.6
160°	903.9	903.0	902.5	903.0	903.9	904.8	905.7	906.6	905.7	904.8	903.9
162.5°	914.6	913.9	913.5	914.0	914.9	915.8	916.7	917.6	916.7	915.8	914.9
165°	923.8	923.3	923.1	923.6	924.5	925.4	926.3	927.2	926.3	925.4	924.5
167.5°	931.3	930.8	930.6	931.1	932.0	932.9	933.8	934.7	933.8	932.9	932.0
170°	937.2	936.9	936.8	937.3	938.2	939.1	940.0	940.9	940.0	939.1	938.2
172.5°	941.3	941.0	940.9	941.4	942.3	943.2	944.1	945.0	944.1	943.2	942.3
175°	944.1	943.8	943.6	944.1	945.2	946.3	947.3	948.4	947.3	946.3	945.2
177.5°	945.2	945.1	945.0	945.5	946.6	947.7	948.7	949.8	948.7	947.7	946.6
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	547.5	549.6	549.2	544.9	540.2	536.4	529.2	530.0	527.5	527.9	530.4
5°	533.8	533.8	532.1	526.2	518.5	514.3	506.2	504.1	499.0	498.5	498.1
7.5°	519.4	517.3	515.1	506.6	497.3	490.5	479.4	476.8	471.7	468.3	466.6
10°	502.4	499.4	495.1	485.4	473.9	465.4	453.9	450.5	440.7	436.4	433.9
12.5°	483.7	482.0	475.1	467.1	448.3	439.0	422.4	425.8	416.0	407.5	406.2
15°	464.9	458.6	454.7	441.5	419.0	414.7	401.6	394.7	385.8	379.0	379.0
17.5°	446.6	436.9	428.4	414.3	397.7	385.8	376.0	372.6	361.6	354.8	353.5
20°	422.4	411.3	409.2	389.2	377.7	364.5	355.2	346.7	338.6	335.6	333.5
22.5°	399.4	386.7	383.3	366.2	354.8	341.6	332.2	326.3	320.3	318.2	314.4
25°	374.8	367.1	362.0	343.7	330.9	318.6	312.2	308.0	302.4	302.0	299.5
27.5°	350.9	343.7	338.6	321.2	311.8	300.3	295.2	290.5	287.6	286.3	285.0
30°	330.5	322.4	316.5	303.7	292.2	282.9	278.6	275.6	273.9	271.8	271.4
32.5°	308.0	303.3	295.2	285.4	276.5	267.6	265.0	262.9	260.3	259.5	259.1
35°	288.8	282.4	277.3	266.3	262.5	254.8	251.8	250.1	246.7	245.9	245.0
37.5°	270.1	264.2	258.6	251.8	244.6	240.3	238.6	236.1	234.4	234.8	234.0
40°	251.4	246.7	242.5	235.2	231.0	228.9	225.4	222.9	222.0	222.5	222.0
42.5°	233.1	228.9	226.3	220.8	216.5	214.4	212.3	209.7	211.0	211.0	212.3
45°	216.5	212.7	211.0	206.7	204.2	200.8	198.7	198.2	199.9	199.5	199.5
47.5°	199.5	198.2	196.1	192.3	188.9	186.7	186.3	186.3	188.0	188.9	188.4
50°	186.3	183.8	181.2	178.2	175.7	174.8	173.6	174.4	176.1	176.1	177.0
52.5°	169.7	168.0	167.2	164.6	162.9	162.9	162.9	163.3	164.6	165.9	165.5
55°	155.3	154.0	153.1	151.9	149.7	150.2	149.7	150.6	151.9	153.1	154.0
57.5°	139.9	139.5	138.7	136.5	136.5	136.1	137.4	137.8	139.9	140.8	142.1
60°	126.3	125.1	125.1	123.4	123.4	123.4	124.6	125.9	127.6	128.0	128.9
62.5°	111.9	111.9	111.4	110.2	110.2	111.4	111.9	113.6	114.4	114.4	115.7
65°	98.3	97.8	97.4	97.8	98.3	98.3	99.5	100.4	101.2	101.7	102.1
67.5°	84.6	84.2	85.1	84.6	85.5	87.2	86.8	88.1	89.3	89.3	89.8
70°	71.9	72.7	72.3	73.2	72.7	73.6	74.9	75.3	75.3	75.7	77.0
72.5°	60.0	60.0	60.0	59.6	60.0	60.8	61.7	62.1	63.0	63.4	64.7
75°	48.5	48.5	47.6	48.5	48.5	49.3	50.2	50.2	50.2	51.0	52.3
77.5°	36.6	37.0	36.6	37.4	37.4	37.9	38.7	38.3	39.1	39.6	40.0
80°	26.8	26.4	26.4	26.4	26.8	26.8	27.6	28.1	28.1	29.4	28.5
82.5°	17.0	17.4	17.0	17.4	17.4	17.9	17.4	17.9	18.3	19.1	18.7
85°	9.8	9.4	9.4	9.8	9.4	9.4	9.8	9.4	9.8	9.4	9.8
87.5°	3.8	3.4	3.4	3.4	3.4	3.0	3.0	2.6	2.6	2.6	2.1
90°	7.4	8.2	8.8	10.0	11.3	12.5	13.7	14.5	15.2	16.0	16.7
92.5°	14.7	14.4	14.6	15.1	15.5	16.0	16.4	16.7	17.0	17.3	17.6
95°	24.4	21.9	22.4	23.5	24.6	25.6	26.7	27.5	28.2	29.0	29.7
97.5°	30.2	24.0	25.2	27.6	30.1	32.5	34.9	35.4	35.8	36.3	36.8
100°	37.8	27.4	28.7	31.3	33.8	36.4	39.0	40.2	41.4	42.7	43.9
102.5°	165.2	165.0	151.2	123.5	95.8	68.1	40.4	42.1	43.7	45.4	47.1
105°	226.4	228.7	207.9	166.4	124.9	83.3	41.8	43.5	45.1	46.8	48.5
107.5°	272.0	273.9	248.3	197.0	145.7	94.4	43.1	44.8	46.5	48.2	49.9
110°	316.1	317.7	295.7	251.7	207.8	163.8	119.8	104.6	89.4	74.2	59.0

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	358.1	359.5	358.2	355.6	353.1	350.5	347.9	282.3	216.7	151.1	85.5
115°	404.1	405.4	407.3	411.1	414.9	418.7	422.5	352.1	281.6	211.2	140.7
117.5°	446.3	447.8	449.1	451.7	454.3	456.9	459.5	437.7	416.0	394.2	372.5
120°	488.5	489.6	491.0	493.7	496.4	499.2	501.9	503.7	505.5	507.4	509.2
122.5°	527.4	528.6	530.1	533.2	536.2	539.3	542.3	543.2	544.1	545.0	545.9
125°	564.6	565.6	567.0	569.9	572.8	575.7	578.6	579.7	580.7	581.8	582.9
127.5°	600.8	601.9	603.0	605.3	607.6	609.9	612.2	613.7	615.2	616.7	618.2
130°	635.6	636.8	637.6	639.3	641.0	642.7	644.4	646.1	647.7	649.4	651.1
132.5°	668.0	669.0	669.8	671.5	673.2	674.8	676.5	677.9	679.3	680.6	682.0
135°	698.6	699.8	700.5	701.9	703.2	704.6	706.0	707.5	709.0	710.5	712.0
137.5°	726.3	727.2	728.0	729.5	731.0	732.6	734.1	735.6	737.1	738.6	740.1
140°	753.3	753.9	754.7	756.4	758.1	759.8	761.5	762.9	764.2	765.6	766.9
142.5°	777.4	777.9	778.9	780.9	782.8	784.8	786.8	788.0	789.2	790.5	791.7
145°	798.5	798.4	799.7	802.3	804.9	807.5	810.1	811.2	812.2	813.3	814.4
147.5°	819.9	819.7	821.0	823.6	826.1	828.7	831.3	832.1	832.8	833.6	834.3
150°	839.3	838.8	840.0	842.5	844.9	847.4	849.8	850.7	851.6	852.5	853.4
152.5°	857.2	856.6	857.7	860.0	862.3	864.6	866.9	867.8	868.7	869.6	870.5
155°	874.5	873.8	874.7	876.5	878.4	880.2	882.0	882.9	883.8	884.7	885.6
157.5°	889.4	888.8	889.5	890.9	892.2	893.6	895.0	896.1	897.1	898.2	899.3
160°	903.0	902.5	903.0	903.9	904.8	905.7	906.6	907.5	908.4	909.3	910.2
162.5°	914.0	913.5	913.9	914.6	915.4	916.1	916.9	918.0	919.0	920.1	921.2
165°	923.6	923.1	923.3	923.8	924.2	924.7	925.1	926.2	927.2	928.3	929.4
167.5°	931.1	930.6	930.8	931.3	931.7	932.2	932.6	933.7	934.7	935.8	936.9
170°	937.3	936.8	936.9	937.2	937.5	937.8	938.1	939.2	940.2	941.3	942.4
172.5°	941.4	940.9	941.0	941.3	941.6	941.9	942.2	943.3	944.3	945.4	946.5
175°	944.1	943.6	943.8	944.1	944.4	944.7	945.0	946.1	947.1	948.2	949.3
177.5°	945.5	945.0	945.1	945.2	945.4	945.5	945.7	946.7	947.8	948.8	949.9
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	527.5	528.7	525.8	524.9	525.8	522.8	523.6	524.5	524.5	525.8	526.6
5°	496.8	495.1	492.2	491.3	490.5	491.7	490.9	492.2	492.6	495.6	496.0
7.5°	466.6	464.1	461.5	459.0	458.1	456.0	458.1	458.1	461.1	460.3	462.4
10°	430.9	430.5	427.1	425.8	424.1	420.7	425.4	424.1	426.2	430.1	430.9
12.5°	404.5	399.9	402.0	396.0	398.2	394.7	395.2	395.2	398.6	399.0	398.2
15°	379.4	375.6	370.1	367.5	366.2	364.5	370.1	370.5	368.0	373.9	371.8
17.5°	353.9	353.9	348.8	347.5	344.1	345.8	345.0	345.4	344.6	348.8	350.9
20°	331.8	329.7	328.0	328.4	324.1	323.3	322.4	323.3	326.3	329.2	330.1
22.5°	313.9	312.7	308.4	309.2	305.8	307.1	306.3	308.4	308.8	308.8	311.8
25°	296.9	295.2	295.6	293.9	292.7	292.7	291.4	292.7	294.4	295.2	295.6
27.5°	284.2	282.9	280.7	279.5	280.3	278.2	279.9	281.2	281.2	280.3	281.2
30°	268.8	269.7	269.7	265.4	267.1	266.3	267.6	268.4	268.4	268.8	268.0
32.5°	258.6	256.1	255.7	255.2	255.2	253.5	253.5	254.8	255.2	255.7	256.9
35°	245.0	245.0	242.9	244.2	242.5	242.9	242.5	242.9	243.7	242.5	243.7
37.5°	232.7	233.1	232.3	233.1	233.5	232.7	231.8	233.5	232.7	232.7	231.8
40°	222.0	221.6	222.0	222.0	222.0	222.5	221.6	221.6	221.6	220.8	219.9
42.5°	213.1	210.6	211.4	211.8	210.6	210.6	211.0	210.6	211.8	209.3	209.3
45°	200.4	199.5	199.9	199.9	200.8	199.5	200.4	200.8	199.5	199.1	198.2
47.5°	188.9	189.7	188.9	189.7	189.7	190.6	188.9	189.3	189.7	188.0	186.7
50°	177.4	177.4	178.7	178.2	178.7	177.8	177.8	177.4	177.8	177.0	175.7
52.5°	166.7	165.5	167.6	167.2	166.7	166.3	165.9	166.3	165.5	164.6	164.6
55°	153.6	153.6	154.8	155.3	155.3	154.4	153.6	154.0	153.6	153.1	152.7
57.5°	142.9	141.2	142.1	142.5	142.5	141.2	142.1	141.2	141.2	141.7	140.4
60°	129.3	129.3	128.5	129.7	129.7	128.9	128.9	129.3	128.5	128.0	127.6
62.5°	114.9	115.3	116.6	117.0	117.4	116.6	115.7	116.1	116.1	114.9	115.3
65°	102.5	103.4	105.1	104.6	103.8	104.2	103.4	103.8	102.5	102.9	101.7
67.5°	90.6	90.2	90.6	90.6	91.5	91.0	90.2	90.2	89.8	91.0	89.8
70°	77.8	77.8	77.8	77.8	78.3	78.7	77.8	77.0	77.4	76.6	76.1
72.5°	64.7	65.1	64.7	65.5	64.2	65.1	65.1	64.7	64.2	64.2	64.2
75°	52.3	53.2	51.9	52.3	51.9	52.7	52.3	52.3	51.5	51.0	51.5
77.5°	40.0	40.4	39.6	40.0	39.6	40.0	40.0	39.6	39.6	39.6	39.6
80°	28.5	28.9	28.5	28.1	27.6	28.5	27.6	28.1	28.5	28.1	28.9
82.5°	18.3	18.3	17.9	18.3	17.4	17.4	17.9	17.9	17.4	18.3	17.4
85°	8.9	8.9	9.8	8.9	8.5	8.5	8.5	8.9	8.5	9.4	8.9
87.5°	2.1	1.7	2.1	2.1	1.7	1.7	2.1	1.7	2.1	2.6	1.7
90°	17.1	17.3	17.6	17.9	18.2	18.5	18.2	17.9	17.6	17.3	17.1
92.5°	17.8	17.9	18.0	18.2	18.3	18.5	18.3	18.2	18.0	17.9	17.8
95°	30.1	30.0	29.9	29.7	29.6	29.4	29.6	29.7	29.9	30.0	30.1
97.5°	37.0	37.1	37.2	37.4	37.5	37.7	37.5	37.4	37.2	37.1	37.0
100°	44.5	44.7	45.0	45.3	45.6	45.9	45.6	45.3	45.0	44.7	44.5
102.5°	47.9	48.1	48.6	49.1	49.5	50.0	49.5	49.1	48.6	48.1	47.9
105°	49.3	49.6	50.2	50.8	51.4	52.0	51.4	50.8	50.2	49.6	49.3
107.5°	50.7	51.0	51.6	52.2	52.8	53.4	52.8	52.2	51.6	51.0	50.7
110°	51.4	51.7	52.3	52.9	53.5	54.1	53.5	52.9	52.3	51.7	51.4

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	52.7	52.9	53.4	53.9	54.3	54.8	54.3	53.9	53.4	52.9	52.7
115°	105.5	100.0	89.1	78.1	67.2	56.2	67.2	78.1	89.1	100.0	105.5
117.5°	361.6	341.7	301.8	261.9	222.0	182.1	222.0	261.9	301.8	341.7	361.6
120°	510.1	499.8	479.3	458.8	438.2	417.7	438.2	458.8	479.3	499.8	510.1
122.5°	546.4	546.5	546.6	546.8	546.9	547.1	546.9	546.8	546.6	546.5	546.4
125°	583.4	583.6	584.1	584.6	585.0	585.5	585.0	584.6	584.1	583.6	583.4
127.5°	619.0	619.1	619.2	619.4	619.5	619.7	619.5	619.4	619.2	619.1	619.0
130°	651.9	651.8	651.7	651.5	651.4	651.2	651.4	651.5	651.7	651.8	651.9
132.5°	682.7	682.6	682.5	682.3	682.2	682.0	682.2	682.3	682.5	682.6	682.7
135°	712.8	712.7	712.4	712.1	711.8	711.5	711.8	712.1	712.4	712.7	712.8
137.5°	740.9	740.7	740.2	739.8	739.3	738.9	739.3	739.8	740.2	740.7	740.9
140°	767.6	767.2	766.5	765.7	765.0	764.2	765.0	765.7	766.5	767.2	767.6
142.5°	792.3	791.9	791.1	790.4	789.6	788.8	789.6	790.4	791.1	791.9	792.3
145°	814.9	814.5	813.7	813.0	812.2	811.4	812.2	813.0	813.7	814.5	814.9
147.5°	834.7	834.4	833.8	833.2	832.6	832.0	832.6	833.2	833.8	834.4	834.7
150°	853.9	853.5	852.8	852.0	851.3	850.5	851.3	852.0	852.8	853.5	853.9
152.5°	871.0	870.5	869.4	868.3	867.3	866.2	867.3	868.3	869.4	870.5	871.0
155°	886.1	885.5	884.3	883.0	881.8	880.6	881.8	883.0	884.3	885.5	886.1
157.5°	899.8	899.2	898.0	896.7	895.5	894.3	895.5	896.7	898.0	899.2	899.8
160°	910.7	910.2	909.1	908.0	907.0	905.9	907.0	908.0	909.1	910.2	910.7
162.5°	921.7	921.0	919.6	918.3	916.9	915.5	916.9	918.3	919.6	921.0	921.7
165°	929.9	929.4	928.3	927.2	926.2	925.1	926.2	927.2	928.3	929.4	929.9
167.5°	937.4	936.7	935.4	934.0	932.7	931.3	932.7	934.0	935.4	936.7	937.4
170°	942.9	942.2	940.9	939.5	938.2	936.8	938.2	939.5	940.9	942.2	942.9
172.5°	947.0	946.3	945.0	943.6	942.3	940.9	942.3	943.6	945.0	946.3	947.0
175°	949.8	949.0	947.5	946.0	944.4	942.9	944.4	946.0	947.5	949.0	949.8
177.5°	950.4	949.7	948.4	947.0	945.7	944.3	945.7	947.0	948.4	949.7	950.4
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	525.3	528.7	527.5	522.8	528.3	528.3	532.1	532.1	536.8	538.5	541.1
5°	495.6	498.1	500.2	498.1	501.9	507.9	511.3	514.3	520.7	523.2	527.0
7.5°	463.7	468.3	470.5	470.5	476.8	483.7	490.5	494.7	503.6	507.0	510.9
10°	432.6	438.1	442.4	442.0	452.6	456.9	465.4	475.1	484.1	489.2	494.7
12.5°	399.9	402.8	408.8	417.3	419.8	427.5	437.3	449.6	465.8	470.5	478.5
15°	372.6	380.7	385.4	389.2	395.2	402.4	413.0	425.0	441.1	451.3	459.8
17.5°	349.7	360.3	363.3	362.4	370.1	381.1	393.5	402.4	416.9	429.2	437.3
20°	330.9	335.2	340.3	342.4	348.4	360.3	372.2	382.4	394.3	404.1	413.5
22.5°	312.2	315.6	319.9	323.7	328.4	335.2	346.7	359.4	370.9	380.3	390.9
25°	296.9	299.0	302.9	305.8	310.9	315.6	323.7	337.7	351.4	356.9	366.2
27.5°	282.0	283.7	286.3	289.7	292.2	296.9	304.1	315.6	329.7	335.2	348.0
30°	268.8	270.1	272.7	274.4	275.6	281.2	286.7	295.6	306.3	313.9	323.3
32.5°	256.5	257.8	260.3	260.8	262.5	265.4	270.5	278.6	288.0	294.4	302.4
35°	242.9	243.7	246.3	247.1	248.4	251.0	254.8	260.8	269.3	273.9	281.2
37.5°	232.3	231.8	233.5	234.8	236.5	237.8	239.1	245.0	251.4	255.7	261.2
40°	220.8	219.9	220.3	222.0	222.9	224.6	224.6	230.6	234.8	238.2	242.5
42.5°	209.3	208.9	208.0	208.9	209.7	210.1	210.6	214.8	219.1	222.0	226.7
45°	197.8	197.4	196.5	196.9	196.9	197.8	199.1	200.8	203.8	206.3	208.9
47.5°	187.2	186.3	185.0	184.6	185.5	185.5	185.5	187.2	190.1	191.0	193.5
50°	176.1	174.8	173.1	172.3	172.3	171.9	172.7	173.1	175.7	176.5	178.7
52.5°	164.2	163.3	161.6	159.9	160.4	159.5	159.9	160.4	161.2	162.5	163.8
55°	152.3	150.6	149.3	148.9	147.6	147.6	146.3	148.0	147.6	148.0	149.7
57.5°	140.8	139.1	137.0	136.1	134.8	134.4	133.6	133.1	133.6	134.8	136.1
60°	127.2	126.3	125.1	123.8	122.9	121.7	120.8	120.8	120.4	120.4	120.8
62.5°	114.0	113.6	111.9	111.4	110.6	109.7	108.5	107.6	107.6	108.5	108.9
65°	101.2	100.8	99.5	99.1	97.0	96.1	95.7	95.3	94.4	94.4	94.4
67.5°	89.3	88.1	88.1	85.9	84.2	83.4	82.5	82.1	82.1	82.1	82.5
70°	76.1	76.1	74.9	73.6	71.9	72.3	71.0	69.8	69.8	68.9	69.3
72.5°	63.4	63.0	61.7	61.3	60.0	58.7	57.9	58.7	57.4	57.0	57.4
75°	51.0	50.6	49.8	48.9	49.3	48.1	46.8	46.4	46.4	45.5	45.5
77.5°	39.1	40.0	38.3	37.9	37.0	36.2	35.7	35.3	35.3	35.3	36.2
80°	27.2	27.6	27.6	26.8	27.2	25.9	25.9	25.9	24.7	25.1	25.5
82.5°	17.4	17.4	17.0	17.4	17.0	17.0	16.6	16.6	16.2	16.2	16.6
85°	9.8	9.4	8.9	9.8	9.4	9.4	8.9	8.9	8.9	8.9	8.9
87.5°	2.1	2.6	2.6	2.6	2.6	3.0	3.0	3.0	3.4	3.4	3.4
90°	16.7	16.0	15.2	14.5	13.7	12.5	11.3	10.0	8.8	8.2	7.4
92.5°	17.6	17.3	17.0	16.7	16.4	16.0	15.5	15.1	14.6	14.4	14.7
95°	29.7	29.0	28.2	27.5	26.7	25.6	24.6	23.5	22.4	21.9	24.4
97.5°	36.8	36.3	35.8	35.4	34.9	32.5	30.1	27.6	25.2	24.0	30.2
100°	43.9	42.7	41.4	40.2	39.0	36.4	33.8	31.3	28.7	27.4	37.8
102.5°	47.1	45.4	43.7	42.1	40.4	68.1	95.8	123.5	151.2	165.0	165.2
105°	48.5	46.8	45.1	43.5	41.8	83.3	124.9	166.4	207.9	228.7	226.4
107.5°	49.9	48.2	46.5	44.8	43.1	94.4	145.7	197.0	248.3	273.9	272.0
110°	59.0	74.2	89.4	104.6	119.8	163.8	207.8	251.7	295.7	317.7	316.1

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	85.5	151.1	216.7	282.3	347.9	350.5	353.1	355.6	358.2	359.5	358.1
115°	140.7	211.2	281.6	352.1	422.5	418.7	414.9	411.1	407.3	405.4	404.1
117.5°	372.5	394.2	416.0	437.7	459.5	456.9	454.3	451.7	449.1	447.8	446.3
120°	509.2	507.4	505.5	503.7	501.9	499.2	496.4	493.7	491.0	489.6	488.5
122.5°	545.9	545.0	544.1	543.2	542.3	539.3	536.2	533.2	530.1	528.6	527.4
125°	582.9	581.8	580.7	579.7	578.6	575.7	572.8	569.9	567.0	565.6	564.6
127.5°	618.2	616.7	615.2	613.7	612.2	609.9	607.6	605.3	603.0	601.9	600.8
130°	651.1	649.4	647.7	646.1	644.4	642.7	641.0	639.3	637.6	636.8	635.6
132.5°	682.0	680.6	679.3	677.9	676.5	674.8	673.2	671.5	669.8	669.0	668.0
135°	712.0	710.5	709.0	707.5	706.0	704.6	703.2	701.9	700.5	699.8	698.6
137.5°	740.1	738.6	737.1	735.6	734.1	732.6	731.0	729.5	728.0	727.2	726.3
140°	766.9	765.6	764.2	762.9	761.5	759.8	758.1	756.4	754.7	753.9	753.3
142.5°	791.7	790.5	789.2	788.0	786.8	784.8	782.8	780.9	778.9	777.9	777.4
145°	814.4	813.3	812.2	811.2	810.1	807.5	804.9	802.3	799.7	798.4	798.5
147.5°	834.3	833.6	832.8	832.1	831.3	828.7	826.1	823.6	821.0	819.7	819.9
150°	853.4	852.5	851.6	850.7	849.8	847.4	844.9	842.5	840.0	838.8	839.3
152.5°	870.5	869.6	868.7	867.8	866.9	864.6	862.3	860.0	857.7	856.6	857.2
155°	885.6	884.7	883.8	882.9	882.0	880.2	878.4	876.5	874.7	873.8	874.5
157.5°	899.3	898.2	897.1	896.1	895.0	893.6	892.2	890.9	889.5	888.8	889.4
160°	910.2	909.3	908.4	907.5	906.6	905.7	904.8	903.9	903.0	902.5	903.0
162.5°	921.2	920.1	919.0	918.0	916.9	916.1	915.4	914.6	913.9	913.5	914.0
165°	929.4	928.3	927.2	926.2	925.1	924.7	924.2	923.8	923.3	923.1	923.6
167.5°	936.9	935.8	934.7	933.7	932.6	932.2	931.7	931.3	930.8	930.6	931.1
170°	942.4	941.3	940.2	939.2	938.1	937.8	937.5	937.2	936.9	936.8	937.3
172.5°	946.5	945.4	944.3	943.3	942.2	941.9	941.6	941.3	941.0	940.9	941.4
175°	949.3	948.2	947.1	946.1	945.0	944.7	944.4	944.1	943.8	943.6	944.1
177.5°	949.9	948.8	947.8	946.7	945.7	945.5	945.4	945.2	945.1	945.0	945.5
180°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3

TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	553.4	553.4	553.4	553.4
2.5°	543.2	543.2	549.6	556.4
5°	531.3	534.3	544.5	553.8
7.5°	519.8	524.9	537.7	549.6
10°	505.8	512.6	528.3	542.4
12.5°	492.2	498.5	516.8	532.6
15°	473.0	481.1	500.7	520.2
17.5°	453.9	462.0	485.8	508.7
20°	431.3	442.0	468.8	499.4
22.5°	410.5	423.7	453.5	478.1
25°	387.5	407.9	435.6	467.5
27.5°	367.1	387.5	415.6	447.9
30°	344.1	365.0	393.9	423.7
32.5°	322.0	341.2	369.2	405.8
35°	299.0	317.3	344.6	381.6
37.5°	278.2	296.1	325.8	359.9
40°	257.8	276.5	302.0	336.0
42.5°	238.6	255.2	278.2	312.2
45°	221.2	233.1	254.4	286.3
47.5°	202.9	213.5	233.1	265.0
50°	185.9	194.8	211.8	241.6
52.5°	169.3	177.0	192.7	216.5
55°	154.4	161.6	173.1	196.5
57.5°	139.1	144.6	155.7	174.4
60°	124.2	129.3	138.2	153.6
62.5°	109.3	113.6	122.1	134.4
65°	96.1	99.5	105.9	116.6
67.5°	83.4	85.5	90.6	99.1
70°	71.0	72.7	77.0	83.8
72.5°	57.9	59.6	64.2	68.9
75°	46.8	47.2	50.6	54.4
77.5°	36.6	36.2	38.7	41.7
80°	25.1	26.4	28.5	29.8
82.5°	17.0	17.4	18.3	19.1
85°	9.4	9.8	9.8	11.1
87.5°	3.8	4.3	4.3	4.7
90°	5.7	4.0	2.4	0.7
92.5°	15.3	15.9	16.5	17.1
95°	29.4	34.5	39.5	44.5
97.5°	42.7	55.2	67.6	80.1
100°	58.7	79.5	100.4	121.2
102.5°	165.5	165.8	166.1	166.4
105°	221.9	217.3	212.8	208.2
107.5°	268.2	264.4	260.6	256.8
110°	312.9	309.7	306.5	303.3



TEST NUMBER: P1029400

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	355.4	352.7	349.9	347.2
115°	401.5	398.9	396.3	393.7
117.5°	443.2	440.2	437.1	434.1
120°	486.2	483.9	481.6	479.3
122.5°	525.0	522.5	520.1	517.7
125°	562.6	560.7	558.7	556.7
127.5°	598.7	596.6	594.4	592.3
130°	633.2	630.7	628.3	625.9
132.5°	666.0	664.1	662.1	660.1
135°	696.2	693.7	691.3	688.9
137.5°	724.5	722.6	720.8	719.0
140°	752.1	750.8	749.6	748.4
142.5°	776.3	775.2	774.2	773.1
145°	798.6	798.8	798.9	799.1
147.5°	820.4	820.8	821.3	821.7
150°	840.4	841.5	842.5	843.6
152.5°	858.4	859.7	860.9	862.1
155°	875.8	877.2	878.5	879.9
157.5°	890.6	891.9	893.1	894.3
160°	903.9	904.8	905.7	906.6
162.5°	914.9	915.8	916.7	917.6
165°	924.5	925.4	926.3	927.2
167.5°	932.0	932.9	933.8	934.7
170°	938.2	939.1	940.0	940.9
172.5°	942.3	943.2	944.1	945.0
175°	945.2	946.3	947.3	948.4
177.5°	946.6	947.7	948.7	949.8
180°	946.3	946.3	946.3	946.3

(END OF REPORT)