

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: P1029398

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029398
REPORT IS A COMBINATION OF REPORTS P985759 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

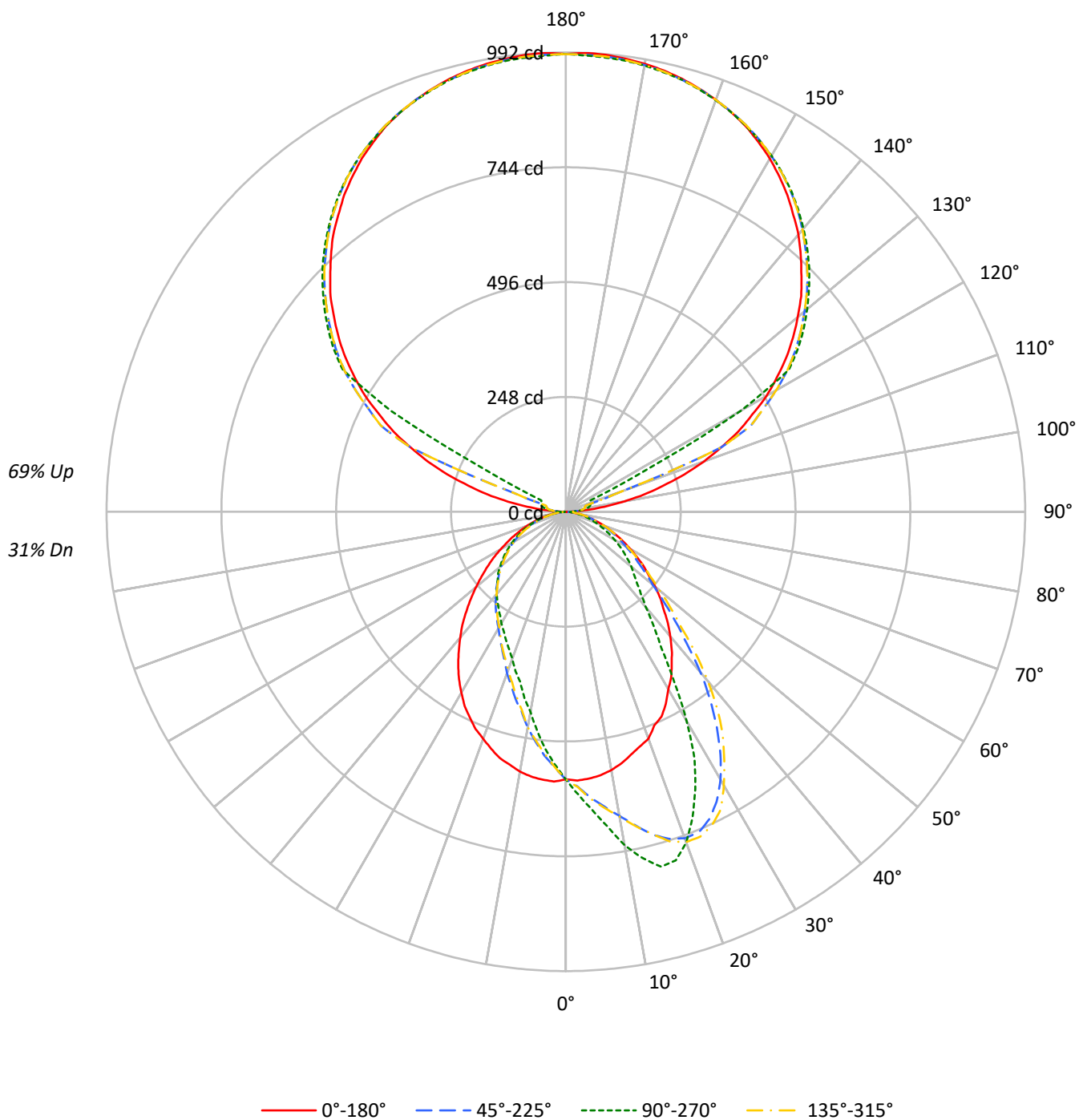
Lumens per Lamp: N/A
Luminaire Lumens: 4174.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

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°	9148	9148	9148	9148
5°	9169	9753	9205	7760
10°	9062	10647	9120	6398
15°	8843	11230	8966	5389
20°	8706	10545	8706	4684
25°	8428	9060	8466	4189
30°	7971	7121	8124	3794
35°	7566	4924	7693	3471
40°	7102	3717	7183	3214
45°	6528	3056	6635	2936
50°	6033	2681	6043	2688
55°	5468	2286	5502	2418
60°	4867	1908	4934	2111
65°	4326	1552	4405	1802
70°	3789	1217	3885	1454
75°	3183	884	3306	1055
80°	2483	561	2659	626
85°	1624	282	1752	209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9457 cd/sqm

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.3
10°-20°	160.2	3.8
20°-30°	232.5	5.6
30°-40°	245.1	5.9
40°-50°	216.9	5.2
50°-60°	173.2	4.1
60°-70°	117.6	2.8
70°-80°	60.2	1.4
80°-90°	16.0	0.4
90°-100°	32.6	0.8
100°-110°	121.5	2.9
110°-120°	322.2	7.7
120°-130°	534.4	12.8
130°-140°	567.6	13.6
140°-150°	527.5	12.6
150°-160°	424.1	10.2
160°-170°	273.3	6.5
170°-180°	94.1	2.3
0°-30°	447.8	10.7
0°-40°	692.9	16.6
0°-60°	1083.0	25.9
0°-90°	1276.7	30.6
90°-120°	476.3	11.4
90°-150°	2105.8	50.5
90°-180°	2897.0	69.4
0°-180°	4174.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	578	578	578	578	578	
5°	578	645	581	514	578	55
15°	543	793	551	381	543	153
25°	488	661	490	306	488	223
35°	398	360	405	254	398	249
45°	299	217	304	208	299	232
55°	205	152	206	161	205	183
65°	122	94	124	109	122	121
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°	217	54	217	54	217	232
115°	411	59	411	59	411	405
125°	581	611	581	611	581	519
135°	719	743	719	743	719	556
145°	834	847	834	847	834	522
155°	919	920	919	920	919	423
165°	968	966	968	966	968	274
175°	990	985	990	985	990	94
180°	988	988	988	988	988	

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	581.0	582.3	584.6	585.0	589.4	593.0	597.0	597.0	598.3	597.9	594.3
5°	578.3	582.3	588.1	593.0	601.0	604.5	609.9	613.9	617.4	620.1	619.6
7.5°	573.9	581.0	589.4	598.8	609.4	615.6	623.2	630.3	635.2	639.6	642.7
10°	566.3	578.3	589.9	602.3	616.1	624.5	633.4	642.7	650.3	658.7	666.7
12.5°	556.1	573.4	587.7	604.1	621.0	630.3	644.5	651.6	666.3	687.6	693.4
15°	543.2	566.8	580.1	601.0	623.2	630.7	650.3	661.8	692.0	705.4	721.4
17.5°	531.2	557.5	575.2	599.2	621.0	635.6	654.7	678.3	703.6	722.7	740.5
20°	521.5	546.8	568.1	594.8	622.3	641.0	661.0	689.4	716.9	736.5	750.2
22.5°	499.3	531.7	556.6	586.3	619.6	645.4	664.5	695.6	725.4	737.4	749.3
25°	488.2	516.1	545.0	578.8	617.9	648.5	665.0	699.6	725.8	730.2	732.9
27.5°	467.7	499.3	533.0	571.7	617.4	643.2	664.1	695.6	716.5	713.4	705.4
30°	442.4	481.1	518.4	560.1	611.2	639.2	658.7	687.6	698.3	682.3	668.1
32.5°	423.8	460.2	501.5	549.9	604.1	630.7	649.8	672.5	674.7	645.9	621.9
35°	398.4	438.9	485.5	536.6	592.1	616.1	633.9	647.6	637.0	596.5	568.1
37.5°	375.8	415.8	465.5	517.5	575.7	599.2	613.4	615.6	589.4	553.9	512.1
40°	350.9	392.2	444.2	498.8	557.5	577.9	586.8	580.1	542.4	501.0	452.6
42.5°	326.0	366.9	422.9	478.8	534.4	551.7	555.2	537.0	490.8	442.4	386.4
45°	298.9	341.6	397.5	454.0	507.7	517.5	517.9	491.7	437.1	386.4	334.5
47.5°	276.7	316.3	371.8	428.2	473.5	480.2	477.5	447.3	387.8	330.9	285.6
50°	252.3	290.1	345.1	400.7	439.3	441.1	434.4	391.3	333.1	281.2	245.2
52.5°	226.1	264.3	314.9	368.2	402.9	400.2	387.3	341.1	286.5	243.4	215.9
55°	205.2	239.0	286.5	338.5	362.9	355.4	341.1	294.1	251.0	214.5	190.6
57.5°	182.1	211.9	258.5	303.8	318.0	310.9	296.7	252.7	212.8	185.2	169.2
60°	160.4	187.4	228.3	266.1	277.2	269.6	253.2	213.7	184.8	161.7	149.7
62.5°	140.4	163.9	198.1	232.8	237.2	229.6	215.4	183.4	158.6	140.4	131.5
65°	121.7	143.9	171.5	197.7	201.7	193.7	179.0	155.9	135.0	123.5	115.0
67.5°	103.5	121.3	145.7	164.8	167.0	159.5	147.5	128.8	115.9	103.5	97.3
70°	87.5	100.8	119.9	135.5	136.4	129.3	123.0	106.2	96.4	87.5	82.6
72.5°	72.0	81.3	95.9	107.5	107.9	103.5	97.7	87.1	78.6	72.4	67.5
75°	56.9	64.9	73.7	84.0	83.5	80.0	75.5	68.8	61.7	57.7	55.5
77.5°	43.5	48.4	55.5	62.2	62.2	60.4	57.7	52.9	48.4	44.4	42.2
80°	31.1	34.2	40.0	42.2	43.1	42.6	40.4	36.9	35.1	32.0	31.1
82.5°	20.0	22.2	24.9	27.1	28.4	27.5	27.1	25.3	22.7	21.8	20.9
85°	11.5	12.4	13.8	15.1	15.5	15.1	16.0	14.7	13.3	13.3	12.9
87.5°	4.9	5.3	6.2	6.2	6.7	6.7	6.2	6.7	6.7	6.2	5.8
90°	0.7	2.5	4.2	6.0	7.7	8.6	9.2	10.5	11.8	13.0	14.3
92.5°	17.9	17.3	16.6	16.0	15.3	15.0	15.2	15.7	16.2	16.7	17.2
95°	46.5	41.3	36.0	30.8	25.5	22.9	23.5	24.6	25.7	26.8	27.9
97.5°	83.7	70.7	57.6	44.6	31.5	25.0	26.3	28.8	31.4	33.9	36.5
100°	126.6	104.8	83.0	61.3	39.5	28.6	30.0	32.7	35.4	38.1	40.8
102.5°	173.8	173.5	173.1	172.8	172.5	172.3	157.8	128.9	100.0	71.1	42.2
105°	217.4	222.2	226.9	231.7	236.4	238.8	217.1	173.7	130.4	87.0	43.6
107.5°	268.2	272.2	276.1	280.1	284.0	286.0	259.2	205.7	152.2	98.6	45.1
110°	316.8	320.1	323.5	326.8	330.1	331.8	308.8	262.9	217.0	171.0	125.1

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	362.6	365.4	368.3	371.1	374.0	375.4	374.1	371.4	368.7	366.0	363.3
115°	411.2	413.9	416.6	419.3	422.0	423.3	425.3	429.3	433.2	437.2	441.2
117.5°	453.4	456.6	459.8	462.9	466.1	467.7	469.0	471.7	474.4	477.1	479.8
120°	500.6	503.0	505.4	507.7	510.1	511.3	512.7	515.6	518.5	521.3	524.2
122.5°	540.6	543.2	545.7	548.3	550.8	552.1	553.7	556.9	560.0	563.2	566.4
125°	581.4	583.5	585.5	587.6	589.7	590.7	592.2	595.2	598.3	601.3	604.3
127.5°	618.6	620.8	623.0	625.3	627.5	628.6	629.8	632.2	634.5	636.9	639.3
130°	653.6	656.1	658.7	661.2	663.7	665.0	665.9	667.6	669.4	671.1	672.9
132.5°	689.4	691.5	693.5	695.6	697.7	698.7	699.6	701.3	703.0	704.8	706.5
135°	719.4	721.9	724.5	727.0	729.5	730.8	731.5	733.0	734.4	735.9	737.3
137.5°	750.9	752.8	754.7	756.6	758.5	759.4	760.2	761.8	763.4	765.0	766.6
140°	781.6	782.9	784.1	785.4	786.7	787.3	788.2	789.9	791.7	793.4	795.2
142.5°	807.3	808.4	809.6	810.7	811.8	812.4	813.4	815.5	817.6	819.6	821.7
145°	834.5	834.3	834.2	834.0	833.9	833.8	835.2	837.9	840.6	843.3	846.0
147.5°	858.1	857.6	857.2	856.7	856.2	856.0	857.3	860.0	862.7	865.4	868.1
150°	881.0	879.9	878.8	877.7	876.6	876.0	877.3	879.8	882.3	884.9	887.4
152.5°	900.3	899.0	897.8	896.5	895.2	894.6	895.8	898.2	900.5	902.9	905.3
155°	918.9	917.5	916.1	914.6	913.2	912.5	913.5	915.4	917.3	919.2	921.1
157.5°	933.9	932.6	931.4	930.1	928.8	928.2	928.9	930.3	931.8	933.2	934.6
160°	946.8	945.8	944.9	943.9	943.0	942.5	943.0	943.9	944.9	945.8	946.8
162.5°	958.2	957.2	956.3	955.3	954.4	953.9	954.3	955.1	955.9	956.7	957.5
165°	968.2	967.3	966.3	965.4	964.5	964.0	964.2	964.7	965.2	965.6	966.1
167.5°	976.1	975.1	974.2	973.2	972.3	971.8	972.0	972.5	973.0	973.5	974.0
170°	982.5	981.6	980.6	979.7	978.8	978.3	978.5	978.8	979.1	979.4	979.7
172.5°	986.8	985.8	984.9	983.9	983.0	982.5	982.7	983.0	983.3	983.7	984.0
175°	990.4	989.3	988.2	987.1	986.0	985.4	985.6	985.9	986.2	986.5	986.8
177.5°	991.8	990.7	989.6	988.5	987.4	986.8	986.9	987.1	987.2	987.4	987.6
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	600.5	601.0	601.9	606.3	608.5	609.0	607.2	611.2	612.5	611.2	610.3
5°	629.0	631.6	637.0	642.7	642.3	642.7	645.4	648.1	649.0	645.4	646.7
7.5°	653.8	659.2	665.0	673.8	673.8	678.3	680.1	682.3	687.6	684.9	684.1
10°	682.3	689.4	700.0	714.3	714.7	719.1	723.6	730.7	732.9	731.1	732.0
12.5°	717.8	731.6	732.5	748.0	755.1	756.0	763.1	761.8	766.2	766.2	773.8
15°	733.4	754.7	766.7	781.8	786.2	780.9	786.7	792.9	793.3	793.3	792.9
17.5°	761.3	769.8	781.8	789.8	791.5	791.5	792.0	794.7	792.9	789.3	792.0
20°	767.1	770.7	775.1	774.2	775.1	770.7	766.2	761.8	762.2	760.0	766.7
22.5°	756.5	755.6	745.3	738.7	738.7	729.8	721.4	717.4	713.4	714.7	716.9
25°	729.8	716.0	703.6	693.8	691.6	677.4	665.8	662.3	655.6	661.0	661.8
27.5°	687.2	671.6	651.6	643.2	631.6	625.9	617.9	607.2	593.4	601.4	600.1
30°	641.4	618.3	601.9	581.4	563.2	561.9	546.8	529.0	521.9	521.9	525.9
32.5°	590.3	559.7	535.7	506.8	489.1	481.5	463.3	445.5	449.5	436.2	441.1
35°	530.8	490.4	460.2	432.2	418.9	410.0	386.4	376.7	366.0	359.8	371.3
37.5°	473.9	427.3	388.7	358.0	353.1	337.1	321.1	314.9	308.7	311.4	310.9
40°	404.7	363.3	328.7	304.7	296.3	288.7	278.1	270.5	266.5	268.7	269.2
42.5°	342.0	307.4	281.6	264.7	257.6	252.3	247.0	240.8	239.4	239.4	241.2
45°	293.6	265.2	247.9	234.1	230.1	226.1	222.1	219.4	218.5	216.8	218.1
47.5°	255.0	232.3	221.7	211.4	207.0	206.1	202.6	201.2	199.4	199.0	199.4
50°	222.5	208.3	198.6	192.8	189.7	188.3	186.6	183.9	183.0	185.2	184.3
52.5°	199.9	186.6	181.2	175.5	173.7	171.9	169.2	169.7	169.2	168.3	168.3
55°	177.2	168.8	163.5	159.0	158.6	156.8	154.6	153.7	153.2	152.4	153.7
57.5°	159.0	152.4	147.5	143.5	141.7	141.7	139.5	137.7	137.7	137.3	137.7
60°	140.8	134.1	131.0	127.0	125.7	125.3	123.9	123.0	121.7	121.7	121.7
62.5°	123.9	118.6	115.0	111.5	111.9	109.7	107.9	107.0	107.0	107.5	107.5
65°	107.9	104.4	99.9	96.8	95.9	95.5	94.6	94.2	92.8	93.7	93.7
67.5°	93.3	88.4	85.7	84.4	83.1	82.6	81.7	80.8	80.4	80.0	80.8
70°	78.6	74.6	72.4	71.5	70.2	69.7	69.3	68.0	68.4	68.8	69.3
72.5°	65.3	61.7	61.3	58.6	58.6	58.6	56.9	57.7	57.3	56.4	57.3
75°	51.5	49.7	48.9	47.5	48.0	47.5	47.1	45.8	45.8	46.2	46.6
77.5°	40.9	39.1	38.6	37.3	36.4	37.3	36.4	36.0	36.0	36.4	36.4
80°	30.2	29.3	28.0	28.0	28.0	27.5	27.5	27.5	27.1	26.7	27.1
82.5°	20.0	20.0	19.5	19.1	19.5	18.7	19.1	19.1	19.1	19.1	19.1
85°	12.9	12.4	12.4	12.0	12.0	12.0	12.4	11.5	11.5	12.0	12.0
87.5°	5.8	5.8	5.8	6.2	5.8	5.8	5.8	6.2	5.8	5.8	5.8
90°	15.1	15.9	16.7	17.5	17.9	18.1	18.4	18.7	19.0	19.3	19.0
92.5°	17.5	17.8	18.1	18.4	18.6	18.7	18.8	19.0	19.1	19.3	19.1
95°	28.7	29.5	30.3	31.1	31.5	31.4	31.2	31.1	30.9	30.7	30.9
97.5°	37.0	37.4	37.9	38.4	38.6	38.7	38.8	39.0	39.1	39.3	39.1
100°	42.1	43.3	44.6	45.9	46.5	46.7	47.0	47.3	47.6	47.9	47.6
102.5°	44.0	45.7	47.5	49.2	50.1	50.3	50.8	51.3	51.7	52.2	51.7
105°	45.4	47.1	48.9	50.6	51.5	51.8	52.4	53.1	53.7	54.3	53.7
107.5°	46.8	48.6	50.3	52.0	52.9	53.2	53.9	54.5	55.2	55.8	55.2
110°	109.2	93.3	77.4	61.5	53.6	53.9	54.6	55.2	55.9	56.5	55.9

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	294.8	226.3	157.8	89.3	55.1	55.3	55.8	56.3	56.7	57.2	56.7
115°	367.6	294.0	220.5	146.9	110.1	104.4	92.9	81.5	70.0	58.6	70.0
117.5°	457.1	434.4	411.7	389.0	377.6	356.8	315.1	273.5	231.8	190.2	231.8
120°	526.1	528.0	529.9	531.8	532.8	522.1	500.6	479.1	457.7	436.2	457.7
122.5°	567.4	568.3	569.3	570.2	570.7	570.8	570.9	571.1	571.2	571.4	571.2
125°	605.4	606.5	607.6	608.7	609.3	609.5	610.0	610.5	610.9	611.4	610.9
127.5°	640.9	642.5	644.1	645.7	646.5	646.6	646.7	646.9	647.0	647.2	647.0
130°	674.7	676.4	678.2	679.9	680.8	680.7	680.6	680.4	680.3	680.1	680.3
132.5°	707.9	709.4	710.8	712.3	713.0	712.9	712.7	712.6	712.4	712.2	712.4
135°	738.9	740.5	742.0	743.6	744.4	744.2	743.9	743.6	743.3	743.0	743.3
137.5°	768.2	769.8	771.3	772.9	773.7	773.5	773.0	772.5	772.1	771.6	772.1
140°	796.6	798.0	799.5	800.9	801.6	801.2	800.4	799.7	798.9	798.1	798.9
142.5°	823.0	824.2	825.5	826.8	827.4	827.0	826.2	825.4	824.6	823.8	824.6
145°	847.1	848.2	849.3	850.4	851.0	850.6	849.8	849.0	848.2	847.4	848.2
147.5°	868.9	869.7	870.5	871.3	871.7	871.4	870.7	870.1	869.4	868.8	869.4
150°	888.4	889.3	890.3	891.2	891.7	891.3	890.5	889.8	889.0	888.2	889.0
152.5°	906.3	907.2	908.2	909.1	909.6	909.0	907.9	906.8	905.7	904.6	905.7
155°	922.0	923.0	923.9	924.8	925.3	924.7	923.4	922.1	920.9	919.6	920.9
157.5°	935.7	936.8	937.9	939.0	939.6	939.0	937.7	936.4	935.2	933.9	935.2
160°	947.8	948.7	949.7	950.6	951.1	950.5	949.4	948.3	947.2	946.1	947.2
162.5°	958.6	959.7	960.8	961.9	962.5	961.8	960.4	958.9	957.5	956.1	957.5
165°	967.2	968.3	969.4	970.5	971.1	970.5	969.4	968.3	967.2	966.1	967.2
167.5°	975.1	976.2	977.3	978.4	979.0	978.3	976.8	975.4	973.9	972.5	973.9
170°	980.8	981.9	983.0	984.1	984.7	984.0	982.6	981.1	979.7	978.3	979.7
172.5°	985.1	986.2	987.3	988.4	989.0	988.3	986.8	985.4	983.9	982.5	983.9
175°	987.9	989.0	990.1	991.2	991.8	991.0	989.4	987.9	986.3	984.7	986.3
177.5°	988.7	989.8	990.9	992.0	992.6	991.9	990.4	989.0	987.5	986.1	987.5
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	612.5	609.4	606.8	607.2	609.4	607.7	603.2	597.4	595.2	592.5	595.2
5°	649.4	646.7	641.4	641.9	640.5	638.7	631.6	622.8	622.8	615.6	614.8
7.5°	685.8	681.8	678.3	677.4	672.5	668.9	662.7	650.3	645.4	637.0	632.1
10°	726.7	723.6	719.6	714.7	712.0	705.8	695.6	677.4	668.5	657.0	648.5
12.5°	768.0	767.6	758.7	748.9	748.5	738.7	731.6	707.1	695.2	679.6	659.6
15°	794.2	792.0	787.1	782.2	783.5	772.9	756.9	728.0	720.0	701.4	680.1
17.5°	793.8	793.8	792.4	791.5	790.2	787.1	778.2	759.1	746.2	722.7	702.7
20°	768.4	774.2	775.6	775.1	779.6	781.8	781.3	769.3	759.1	738.2	717.8
22.5°	717.8	731.1	736.9	740.5	749.8	754.7	766.2	761.8	759.1	743.6	726.2
25°	670.7	675.2	692.5	693.4	706.3	718.3	729.8	737.4	747.1	741.4	726.7
27.5°	609.9	620.1	632.5	641.9	644.5	668.9	688.0	702.3	724.5	726.2	721.4
30°	541.0	545.9	566.3	578.8	593.0	610.8	638.3	662.7	682.7	700.9	707.1
32.5°	457.1	477.1	489.1	504.2	516.6	548.1	581.9	613.4	636.5	667.2	680.5
35°	380.2	395.8	416.2	422.4	445.1	471.7	515.7	556.1	591.2	622.3	649.4
37.5°	316.7	329.1	350.9	360.7	374.0	408.2	445.1	495.3	537.5	575.7	609.4
40°	273.2	282.5	298.9	302.0	313.2	344.2	374.0	421.1	477.1	528.6	565.5
42.5°	243.4	247.9	259.0	263.0	270.1	290.9	317.6	362.0	414.0	467.3	519.3
45°	222.1	225.2	231.9	235.4	244.3	253.6	275.4	310.9	351.8	405.5	461.5
47.5°	203.0	207.0	209.7	211.9	216.8	227.0	241.2	267.4	306.5	355.8	410.0
50°	187.0	188.3	193.2	193.7	196.8	203.4	216.8	232.8	263.8	303.8	356.2
52.5°	171.0	172.3	175.5	178.6	179.9	185.2	194.1	207.4	230.5	262.1	308.7
55°	155.0	156.8	159.9	162.1	163.5	167.9	173.2	186.1	204.3	226.5	264.7
57.5°	139.0	143.0	143.9	145.2	147.5	152.4	157.2	164.8	179.0	199.4	227.4
60°	123.9	125.3	128.4	129.7	131.9	134.6	140.8	146.6	156.8	172.8	198.1
62.5°	108.4	111.5	112.8	114.2	115.9	119.0	123.0	129.3	138.1	151.0	171.0
65°	95.1	95.5	98.2	99.9	101.7	103.9	107.9	113.7	119.0	131.0	145.7
67.5°	82.2	83.1	84.0	85.7	87.9	90.2	93.7	96.8	103.5	111.5	123.0
70°	69.7	69.7	72.0	73.3	72.8	75.5	78.2	81.7	86.6	94.2	103.5
72.5°	58.6	58.2	60.0	60.4	61.3	63.1	64.9	68.4	71.1	76.8	84.0
75°	46.6	47.5	48.4	48.4	49.7	51.1	52.9	54.6	57.7	61.3	66.6
77.5°	36.9	36.9	37.8	38.2	39.5	39.1	40.9	42.6	44.9	48.0	52.0
80°	27.1	28.0	28.0	28.0	28.4	28.9	30.6	32.0	33.3	35.5	37.3
82.5°	19.1	19.1	20.0	20.0	20.0	20.9	20.9	21.3	22.2	23.5	24.9
85°	12.0	12.0	12.0	12.4	12.0	12.4	13.3	12.9	13.3	14.2	14.2
87.5°	5.8	5.8	5.8	5.8	5.8	6.2	5.8	6.2	6.7	6.7	6.7
90°	18.7	18.4	18.1	17.9	17.5	16.7	15.9	15.1	14.3	13.0	11.8
92.5°	19.0	18.8	18.7	18.6	18.4	18.1	17.8	17.5	17.2	16.7	16.2
95°	31.1	31.2	31.4	31.5	31.1	30.3	29.5	28.7	27.9	26.8	25.7
97.5°	39.0	38.8	38.7	38.6	38.4	37.9	37.4	37.0	36.5	33.9	31.4
100°	47.3	47.0	46.7	46.5	45.9	44.6	43.3	42.1	40.8	38.1	35.4
102.5°	51.3	50.8	50.3	50.1	49.2	47.5	45.7	44.0	42.2	71.1	100.0
105°	53.1	52.4	51.8	51.5	50.6	48.9	47.1	45.4	43.6	87.0	130.4
107.5°	54.5	53.9	53.2	52.9	52.0	50.3	48.6	46.8	45.1	98.6	152.2
110°	55.2	54.6	53.9	53.6	61.5	77.4	93.3	109.2	125.1	171.0	217.0

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	56.3	55.8	55.3	55.1	89.3	157.8	226.3	294.8	363.3	366.0	368.7
115°	81.5	92.9	104.4	110.1	146.9	220.5	294.0	367.6	441.2	437.2	433.2
117.5°	273.5	315.1	356.8	377.6	389.0	411.7	434.4	457.1	479.8	477.1	474.4
120°	479.1	500.6	522.1	532.8	531.8	529.9	528.0	526.1	524.2	521.3	518.5
122.5°	571.1	570.9	570.8	570.7	570.2	569.3	568.3	567.4	566.4	563.2	560.0
125°	610.5	610.0	609.5	609.3	608.7	607.6	606.5	605.4	604.3	601.3	598.3
127.5°	646.9	646.7	646.6	646.5	645.7	644.1	642.5	640.9	639.3	636.9	634.5
130°	680.4	680.6	680.7	680.8	679.9	678.2	676.4	674.7	672.9	671.1	669.4
132.5°	712.6	712.7	712.9	713.0	712.3	710.8	709.4	707.9	706.5	704.8	703.0
135°	743.6	743.9	744.2	744.4	743.6	742.0	740.5	738.9	737.3	735.9	734.4
137.5°	772.5	773.0	773.5	773.7	772.9	771.3	769.8	768.2	766.6	765.0	763.4
140°	799.7	800.4	801.2	801.6	800.9	799.5	798.0	796.6	795.2	793.4	791.7
142.5°	825.4	826.2	827.0	827.4	826.8	825.5	824.2	823.0	821.7	819.6	817.6
145°	849.0	849.8	850.6	851.0	850.4	849.3	848.2	847.1	846.0	843.3	840.6
147.5°	870.1	870.7	871.4	871.7	871.3	870.5	869.7	868.9	868.1	865.4	862.7
150°	889.8	890.5	891.3	891.7	891.2	890.3	889.3	888.4	887.4	884.9	882.3
152.5°	906.8	907.9	909.0	909.6	909.1	908.2	907.2	906.3	905.3	902.9	900.5
155°	922.1	923.4	924.7	925.3	924.8	923.9	923.0	922.0	921.1	919.2	917.3
157.5°	936.4	937.7	939.0	939.6	939.0	937.9	936.8	935.7	934.6	933.2	931.8
160°	948.3	949.4	950.5	951.1	950.6	949.7	948.7	947.8	946.8	945.8	944.9
162.5°	958.9	960.4	961.8	962.5	961.9	960.8	959.7	958.6	957.5	956.7	955.9
165°	968.3	969.4	970.5	971.1	970.5	969.4	968.3	967.2	966.1	965.6	965.2
167.5°	975.4	976.8	978.3	979.0	978.4	977.3	976.2	975.1	974.0	973.5	973.0
170°	981.1	982.6	984.0	984.7	984.1	983.0	981.9	980.8	979.7	979.4	979.1
172.5°	985.4	986.8	988.3	989.0	988.4	987.3	986.2	985.1	984.0	983.7	983.3
175°	987.9	989.4	991.0	991.8	991.2	990.1	989.0	987.9	986.8	986.5	986.2
177.5°	989.0	990.4	991.9	992.6	992.0	990.9	989.8	988.7	987.6	987.4	987.2
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	593.0	590.8	589.4	590.3	587.7	581.0	581.0	583.2	580.6	577.9	573.9
5°	609.4	605.0	602.3	601.9	595.7	585.0	582.8	580.6	574.8	568.6	561.9
7.5°	625.4	617.4	613.0	609.9	601.0	587.2	581.4	576.6	567.2	557.9	549.5
10°	638.7	627.2	621.9	617.0	605.4	588.1	578.8	569.9	557.9	545.9	535.2
12.5°	649.4	636.1	629.4	622.3	608.1	585.4	573.9	559.7	547.7	531.7	521.0
15°	667.2	639.6	633.4	626.8	612.1	581.0	566.8	550.8	534.4	513.0	501.5
17.5°	681.4	644.5	644.1	629.9	610.8	579.2	557.5	536.6	518.8	497.5	479.3
20°	689.8	652.1	645.0	630.3	606.3	567.2	544.6	521.5	502.4	476.6	458.4
22.5°	696.9	662.7	644.1	626.3	597.0	563.2	529.9	508.2	481.9	454.0	436.6
25°	699.6	665.0	645.4	625.0	590.3	551.7	513.9	490.4	461.1	435.7	412.2
27.5°	700.0	664.5	640.5	619.2	581.0	536.6	497.9	473.1	440.6	411.3	387.8
30°	695.6	659.6	637.9	614.8	572.1	522.8	478.4	450.9	416.2	386.9	362.5
32.5°	682.3	649.8	632.1	606.8	560.6	503.7	459.7	429.1	392.7	363.8	340.2
35°	660.1	637.9	618.3	594.8	545.5	485.9	441.1	405.1	368.2	340.7	318.5
37.5°	632.5	620.5	602.3	579.2	528.1	470.0	420.2	380.2	343.4	316.7	294.9
40°	595.2	598.3	580.6	559.7	507.7	448.2	393.1	354.9	320.3	295.4	274.1
42.5°	554.8	567.7	557.5	537.5	485.1	424.2	373.1	330.9	297.2	271.4	253.6
45°	511.3	533.5	527.3	512.6	461.5	398.9	344.7	303.8	274.1	249.2	233.6
47.5°	463.7	495.3	495.3	484.6	435.3	373.6	320.3	278.5	249.2	231.4	216.3
50°	415.3	450.9	456.6	449.5	406.0	344.7	290.5	252.7	227.4	210.1	199.0
52.5°	364.7	406.0	416.6	413.1	374.9	317.2	266.1	229.2	206.1	191.0	181.2
55°	316.3	364.2	375.8	377.1	341.6	286.9	239.0	206.5	184.3	174.1	165.7
57.5°	270.5	316.7	329.6	331.8	307.8	259.4	213.7	185.2	165.2	156.8	150.1
60°	231.4	270.1	286.9	291.8	271.0	227.4	190.1	162.6	147.5	139.5	133.3
62.5°	199.4	230.5	248.3	249.6	240.3	199.4	165.7	142.6	129.7	122.6	119.5
65°	168.3	196.3	207.0	212.3	204.8	172.8	143.0	123.9	113.7	107.5	104.4
67.5°	143.5	161.2	170.1	177.2	169.7	145.7	121.7	106.2	98.6	92.4	90.6
70°	117.7	132.4	139.0	146.1	139.5	121.3	103.9	89.7	83.1	78.2	76.0
72.5°	94.2	105.7	111.9	116.4	112.4	97.3	83.1	73.3	68.4	64.9	63.5
75°	74.6	82.6	86.2	89.3	87.5	76.0	67.1	59.1	54.6	51.5	50.6
77.5°	56.9	62.6	66.6	67.5	65.3	57.7	50.2	45.3	41.8	40.0	39.1
80°	40.4	44.0	46.2	47.5	45.3	42.2	36.9	33.3	30.2	28.0	27.5
82.5°	27.1	28.9	30.6	30.2	29.3	26.7	23.5	21.8	20.4	18.7	18.7
85°	15.5	16.0	16.9	17.3	16.9	15.1	13.3	12.4	11.5	10.2	10.2
87.5°	6.7	7.1	7.1	7.6	6.7	6.7	5.8	4.9	4.9	4.4	4.0
90°	10.5	9.2	8.6	7.7	6.0	4.2	2.5	0.7	2.5	4.2	6.0
92.5°	15.7	15.2	15.0	15.3	16.0	16.6	17.3	17.9	17.3	16.6	16.0
95°	24.6	23.5	22.9	25.5	30.8	36.0	41.3	46.5	41.3	36.0	30.8
97.5°	28.8	26.3	25.0	31.5	44.6	57.6	70.7	83.7	70.7	57.6	44.6
100°	32.7	30.0	28.6	39.5	61.3	83.0	104.8	126.6	104.8	83.0	61.3
102.5°	128.9	157.8	172.3	172.5	172.8	173.1	173.5	173.8	173.5	173.1	172.8
105°	173.7	217.1	238.8	236.4	231.7	226.9	222.2	217.4	222.2	226.9	231.7
107.5°	205.7	259.2	286.0	284.0	280.1	276.1	272.2	268.2	272.2	276.1	280.1
110°	262.9	308.8	331.8	330.1	326.8	323.5	320.1	316.8	320.1	323.5	326.8

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	371.4	374.1	375.4	374.0	371.1	368.3	365.4	362.6	365.4	368.3	371.1
115°	429.3	425.3	423.3	422.0	419.3	416.6	413.9	411.2	413.9	416.6	419.3
117.5°	471.7	469.0	467.7	466.1	462.9	459.8	456.6	453.4	456.6	459.8	462.9
120°	515.6	512.7	511.3	510.1	507.7	505.4	503.0	500.6	503.0	505.4	507.7
122.5°	556.9	553.7	552.1	550.8	548.3	545.7	543.2	540.6	543.2	545.7	548.3
125°	595.2	592.2	590.7	589.7	587.6	585.5	583.5	581.4	583.5	585.5	587.6
127.5°	632.2	629.8	628.6	627.5	625.3	623.0	620.8	618.6	620.8	623.0	625.3
130°	667.6	665.9	665.0	663.7	661.2	658.7	656.1	653.6	656.1	658.7	661.2
132.5°	701.3	699.6	698.7	697.7	695.6	693.5	691.5	689.4	691.5	693.5	695.6
135°	733.0	731.5	730.8	729.5	727.0	724.5	721.9	719.4	721.9	724.5	727.0
137.5°	761.8	760.2	759.4	758.5	756.6	754.7	752.8	750.9	752.8	754.7	756.6
140°	789.9	788.2	787.3	786.7	785.4	784.1	782.9	781.6	782.9	784.1	785.4
142.5°	815.5	813.4	812.4	811.8	810.7	809.6	808.4	807.3	808.4	809.6	810.7
145°	837.9	835.2	833.8	833.9	834.0	834.2	834.3	834.5	834.3	834.2	834.0
147.5°	860.0	857.3	856.0	856.2	856.7	857.2	857.6	858.1	857.6	857.2	856.7
150°	879.8	877.3	876.0	876.6	877.7	878.8	879.9	881.0	879.9	878.8	877.7
152.5°	898.2	895.8	894.6	895.2	896.5	897.8	899.0	900.3	899.0	897.8	896.5
155°	915.4	913.5	912.5	913.2	914.6	916.1	917.5	918.9	917.5	916.1	914.6
157.5°	930.3	928.9	928.2	928.8	930.1	931.4	932.6	933.9	932.6	931.4	930.1
160°	943.9	943.0	942.5	943.0	943.9	944.9	945.8	946.8	945.8	944.9	943.9
162.5°	955.1	954.3	953.9	954.4	955.3	956.3	957.2	958.2	957.2	956.3	955.3
165°	964.7	964.2	964.0	964.5	965.4	966.3	967.3	968.2	967.3	966.3	965.4
167.5°	972.5	972.0	971.8	972.3	973.2	974.2	975.1	976.1	975.1	974.2	973.2
170°	978.8	978.5	978.3	978.8	979.7	980.6	981.6	982.5	981.6	980.6	979.7
172.5°	983.0	982.7	982.5	983.0	983.9	984.9	985.8	986.8	985.8	984.9	983.9
175°	985.9	985.6	985.4	986.0	987.1	988.2	989.3	990.4	989.3	988.2	987.1
177.5°	987.1	986.9	986.8	987.4	988.5	989.6	990.7	991.8	990.7	989.6	988.5
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	571.7	573.9	573.4	569.0	564.1	560.1	552.6	553.5	550.8	551.2	553.9
5°	557.5	557.5	555.7	549.5	541.5	537.0	528.6	526.4	521.0	520.6	520.1
7.5°	542.4	540.1	537.9	529.0	519.3	512.1	500.6	497.9	492.6	489.1	487.3
10°	524.6	521.5	517.0	506.8	494.8	485.9	473.9	470.4	460.2	455.7	453.1
12.5°	505.0	503.3	496.2	487.7	468.2	458.4	441.1	444.6	434.4	425.5	424.2
15°	485.5	478.8	474.8	461.1	437.5	433.1	419.3	412.2	402.9	395.8	395.8
17.5°	466.4	456.2	447.3	432.6	415.3	402.9	392.7	389.1	377.6	370.5	369.1
20°	441.1	429.5	427.3	406.4	394.4	380.7	370.9	362.0	353.6	350.5	348.2
22.5°	417.1	403.8	400.2	382.4	370.5	356.7	346.9	340.7	334.5	332.3	328.3
25°	391.3	383.3	378.0	358.9	345.6	332.7	326.0	321.6	315.8	315.4	312.7
27.5°	366.5	358.9	353.6	335.4	325.6	313.6	308.3	303.4	300.3	298.9	297.6
30°	345.1	336.7	330.5	317.2	305.2	295.4	290.9	287.8	286.1	283.8	283.4
32.5°	321.6	316.7	308.3	298.1	288.7	279.4	276.7	274.5	271.8	271.0	270.5
35°	301.6	294.9	289.6	278.1	274.1	266.1	263.0	261.2	257.6	256.7	255.9
37.5°	282.1	275.8	270.1	263.0	255.4	251.0	249.2	246.5	244.7	245.2	244.3
40°	262.5	257.6	253.2	245.6	241.2	239.0	235.4	232.8	231.9	232.3	231.9
42.5°	243.4	239.0	236.3	230.5	226.1	223.9	221.7	219.0	220.3	220.3	221.7
45°	226.1	222.1	220.3	215.9	213.2	209.7	207.4	207.0	208.8	208.3	208.3
47.5°	208.3	207.0	204.8	200.8	197.2	195.0	194.6	194.6	196.3	197.2	196.8
50°	194.6	191.9	189.2	186.1	183.4	182.6	181.2	182.1	183.9	183.9	184.8
52.5°	177.2	175.5	174.6	171.9	170.1	170.1	170.1	170.6	171.9	173.2	172.8
55°	162.1	160.8	159.9	158.6	156.4	156.8	156.4	157.2	158.6	159.9	160.8
57.5°	146.1	145.7	144.8	142.6	142.6	142.1	143.5	143.9	146.1	147.0	148.4
60°	131.9	130.6	130.6	128.8	128.8	128.8	130.1	131.5	133.3	133.7	134.6
62.5°	116.8	116.8	116.4	115.0	115.0	116.4	116.8	118.6	119.5	119.5	120.8
65°	102.6	102.2	101.7	102.2	102.6	102.6	103.9	104.8	105.7	106.2	106.6
67.5°	88.4	87.9	88.8	88.4	89.3	91.1	90.6	91.9	93.3	93.3	93.7
70°	75.1	76.0	75.5	76.4	76.0	76.8	78.2	78.6	78.6	79.1	80.4
72.5°	62.6	62.6	62.6	62.2	62.6	63.5	64.4	64.9	65.7	66.2	67.5
75°	50.6	50.6	49.7	50.6	50.6	51.5	52.4	52.4	52.4	53.3	54.6
77.5°	38.2	38.6	38.2	39.1	39.1	39.5	40.4	40.0	40.9	41.3	41.8
80°	28.0	27.5	27.5	27.5	28.0	28.0	28.9	29.3	29.3	30.6	29.8
82.5°	17.8	18.2	17.8	18.2	18.2	18.7	18.2	18.7	19.1	20.0	19.5
85°	10.2	9.8	9.8	10.2	9.8	9.8	10.2	9.8	10.2	9.8	10.2
87.5°	4.0	3.6	3.6	3.6	3.6	3.1	3.1	2.7	2.7	2.7	2.2
90°	7.7	8.6	9.2	10.5	11.8	13.0	14.3	15.1	15.9	16.7	17.5
92.5°	15.3	15.0	15.2	15.7	16.2	16.7	17.2	17.5	17.8	18.1	18.4
95°	25.5	22.9	23.5	24.6	25.7	26.8	27.9	28.7	29.5	30.3	31.1
97.5°	31.5	25.0	26.3	28.8	31.4	33.9	36.5	37.0	37.4	37.9	38.4
100°	39.5	28.6	30.0	32.7	35.4	38.1	40.8	42.1	43.3	44.6	45.9
102.5°	172.5	172.3	157.8	128.9	100.0	71.1	42.2	44.0	45.7	47.5	49.2
105°	236.4	238.8	217.1	173.7	130.4	87.0	43.6	45.4	47.1	48.9	50.6
107.5°	284.0	286.0	259.2	205.7	152.2	98.6	45.1	46.8	48.6	50.3	52.0
110°	330.1	331.8	308.8	262.9	217.0	171.0	125.1	109.2	93.3	77.4	61.5

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	374.0	375.4	374.1	371.4	368.7	366.0	363.3	294.8	226.3	157.8	89.3
115°	422.0	423.3	425.3	429.3	433.2	437.2	441.2	367.6	294.0	220.5	146.9
117.5°	466.1	467.7	469.0	471.7	474.4	477.1	479.8	457.1	434.4	411.7	389.0
120°	510.1	511.3	512.7	515.6	518.5	521.3	524.2	526.1	528.0	529.9	531.8
122.5°	550.8	552.1	553.7	556.9	560.0	563.2	566.4	567.4	568.3	569.3	570.2
125°	589.7	590.7	592.2	595.2	598.3	601.3	604.3	605.4	606.5	607.6	608.7
127.5°	627.5	628.6	629.8	632.2	634.5	636.9	639.3	640.9	642.5	644.1	645.7
130°	663.7	665.0	665.9	667.6	669.4	671.1	672.9	674.7	676.4	678.2	679.9
132.5°	697.7	698.7	699.6	701.3	703.0	704.8	706.5	707.9	709.4	710.8	712.3
135°	729.5	730.8	731.5	733.0	734.4	735.9	737.3	738.9	740.5	742.0	743.6
137.5°	758.5	759.4	760.2	761.8	763.4	765.0	766.6	768.2	769.8	771.3	772.9
140°	786.7	787.3	788.2	789.9	791.7	793.4	795.2	796.6	798.0	799.5	800.9
142.5°	811.8	812.4	813.4	815.5	817.6	819.6	821.7	823.0	824.2	825.5	826.8
145°	833.9	833.8	835.2	837.9	840.6	843.3	846.0	847.1	848.2	849.3	850.4
147.5°	856.2	856.0	857.3	860.0	862.7	865.4	868.1	868.9	869.7	870.5	871.3
150°	876.6	876.0	877.3	879.8	882.3	884.9	887.4	888.4	889.3	890.3	891.2
152.5°	895.2	894.6	895.8	898.2	900.5	902.9	905.3	906.3	907.2	908.2	909.1
155°	913.2	912.5	913.5	915.4	917.3	919.2	921.1	922.0	923.0	923.9	924.8
157.5°	928.8	928.2	928.9	930.3	931.8	933.2	934.6	935.7	936.8	937.9	939.0
160°	943.0	942.5	943.0	943.9	944.9	945.8	946.8	947.8	948.7	949.7	950.6
162.5°	954.4	953.9	954.3	955.1	955.9	956.7	957.5	958.6	959.7	960.8	961.9
165°	964.5	964.0	964.2	964.7	965.2	965.6	966.1	967.2	968.3	969.4	970.5
167.5°	972.3	971.8	972.0	972.5	973.0	973.5	974.0	975.1	976.2	977.3	978.4
170°	978.8	978.3	978.5	978.8	979.1	979.4	979.7	980.8	981.9	983.0	984.1
172.5°	983.0	982.5	982.7	983.0	983.3	983.7	984.0	985.1	986.2	987.3	988.4
175°	986.0	985.4	985.6	985.9	986.2	986.5	986.8	987.9	989.0	990.1	991.2
177.5°	987.4	986.8	986.9	987.1	987.2	987.4	987.6	988.7	989.8	990.9	992.0
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	550.8	552.1	549.0	548.1	549.0	545.9	546.8	547.7	547.7	549.0	549.9
5°	518.8	517.0	513.9	513.0	512.1	513.5	512.6	513.9	514.4	517.5	517.9
7.5°	487.3	484.6	481.9	479.3	478.4	476.2	478.4	478.4	481.5	480.6	482.8
10°	450.0	449.5	446.0	444.6	442.9	439.3	444.2	442.9	445.1	449.1	450.0
12.5°	422.4	417.5	419.8	413.5	415.8	412.2	412.7	412.7	416.2	416.6	415.8
15°	396.2	392.2	386.4	383.8	382.4	380.7	386.4	386.9	384.2	390.4	388.2
17.5°	369.6	369.6	364.2	362.9	359.3	361.1	360.2	360.7	359.8	364.2	366.5
20°	346.5	344.2	342.5	342.9	338.5	337.6	336.7	337.6	340.7	343.8	344.7
22.5°	327.8	326.5	322.0	322.9	319.4	320.7	319.8	322.0	322.5	322.5	325.6
25°	310.0	308.3	308.7	306.9	305.6	305.6	304.3	305.6	307.4	308.3	308.7
27.5°	296.7	295.4	293.2	291.8	292.7	290.5	292.3	293.6	293.6	292.7	293.6
30°	280.7	281.6	281.6	277.2	279.0	278.1	279.4	280.3	280.3	280.7	279.8
32.5°	270.1	267.4	267.0	266.5	266.5	264.7	264.7	266.1	266.5	267.0	268.3
35°	255.9	255.9	253.6	255.0	253.2	253.6	253.2	253.6	254.5	253.2	254.5
37.5°	243.0	243.4	242.5	243.4	243.9	243.0	242.1	243.9	243.0	243.0	242.1
40°	231.9	231.4	231.9	231.9	231.9	232.3	231.4	231.4	231.4	230.5	229.6
42.5°	222.5	219.9	220.8	221.2	219.9	219.9	220.3	219.9	221.2	218.5	218.5
45°	209.2	208.3	208.8	208.8	209.7	208.3	209.2	209.7	208.3	207.9	207.0
47.5°	197.2	198.1	197.2	198.1	198.1	199.0	197.2	197.7	198.1	196.3	195.0
50°	185.2	185.2	186.6	186.1	186.6	185.7	185.7	185.2	185.7	184.8	183.4
52.5°	174.1	172.8	175.0	174.6	174.1	173.7	173.2	173.7	172.8	171.9	171.9
55°	160.4	160.4	161.7	162.1	162.1	161.2	160.4	160.8	160.4	159.9	159.5
57.5°	149.2	147.5	148.4	148.8	148.8	147.5	148.4	147.5	147.5	147.9	146.6
60°	135.0	135.0	134.1	135.5	135.5	134.6	134.6	135.0	134.1	133.7	133.3
62.5°	119.9	120.4	121.7	122.2	122.6	121.7	120.8	121.3	121.3	119.9	120.4
65°	107.0	107.9	109.7	109.3	108.4	108.8	107.9	108.4	107.0	107.5	106.2
67.5°	94.6	94.2	94.6	94.6	95.5	95.1	94.2	94.2	93.7	95.1	93.7
70°	81.3	81.3	81.3	81.3	81.7	82.2	81.3	80.4	80.8	80.0	79.5
72.5°	67.5	68.0	67.5	68.4	67.1	68.0	68.0	67.5	67.1	67.1	67.1
75°	54.6	55.5	54.2	54.6	54.2	55.1	54.6	54.6	53.7	53.3	53.7
77.5°	41.8	42.2	41.3	41.8	41.3	41.8	41.8	41.3	41.3	41.3	41.3
80°	29.8	30.2	29.8	29.3	28.9	29.8	28.9	29.3	29.8	29.3	30.2
82.5°	19.1	19.1	18.7	19.1	18.2	18.2	18.7	18.7	18.2	19.1	18.2
85°	9.3	9.3	10.2	9.3	8.9	8.9	8.9	9.3	8.9	9.8	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°	17.9	18.1	18.4	18.7	19.0	19.3	19.0	18.7	18.4	18.1	17.9
92.5°	18.6	18.7	18.8	19.0	19.1	19.3	19.1	19.0	18.8	18.7	18.6
95°	31.5	31.4	31.2	31.1	30.9	30.7	30.9	31.1	31.2	31.4	31.5
97.5°	38.6	38.7	38.8	39.0	39.1	39.3	39.1	39.0	38.8	38.7	38.6
100°	46.5	46.7	47.0	47.3	47.6	47.9	47.6	47.3	47.0	46.7	46.5
102.5°	50.1	50.3	50.8	51.3	51.7	52.2	51.7	51.3	50.8	50.3	50.1
105°	51.5	51.8	52.4	53.1	53.7	54.3	53.7	53.1	52.4	51.8	51.5
107.5°	52.9	53.2	53.9	54.5	55.2	55.8	55.2	54.5	53.9	53.2	52.9
110°	53.6	53.9	54.6	55.2	55.9	56.5	55.9	55.2	54.6	53.9	53.6

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	55.1	55.3	55.8	56.3	56.7	57.2	56.7	56.3	55.8	55.3	55.1
115°	110.1	104.4	92.9	81.5	70.0	58.6	70.0	81.5	92.9	104.4	110.1
117.5°	377.6	356.8	315.1	273.5	231.8	190.2	231.8	273.5	315.1	356.8	377.6
120°	532.8	522.1	500.6	479.1	457.7	436.2	457.7	479.1	500.6	522.1	532.8
122.5°	570.7	570.8	570.9	571.1	571.2	571.4	571.2	571.1	570.9	570.8	570.7
125°	609.3	609.5	610.0	610.5	610.9	611.4	610.9	610.5	610.0	609.5	609.3
127.5°	646.5	646.6	646.7	646.9	647.0	647.2	647.0	646.9	646.7	646.6	646.5
130°	680.8	680.7	680.6	680.4	680.3	680.1	680.3	680.4	680.6	680.7	680.8
132.5°	713.0	712.9	712.7	712.6	712.4	712.2	712.4	712.6	712.7	712.9	713.0
135°	744.4	744.2	743.9	743.6	743.3	743.0	743.3	743.6	743.9	744.2	744.4
137.5°	773.7	773.5	773.0	772.5	772.1	771.6	772.1	772.5	773.0	773.5	773.7
140°	801.6	801.2	800.4	799.7	798.9	798.1	798.9	799.7	800.4	801.2	801.6
142.5°	827.4	827.0	826.2	825.4	824.6	823.8	824.6	825.4	826.2	827.0	827.4
145°	851.0	850.6	849.8	849.0	848.2	847.4	848.2	849.0	849.8	850.6	851.0
147.5°	871.7	871.4	870.7	870.1	869.4	868.8	869.4	870.1	870.7	871.4	871.7
150°	891.7	891.3	890.5	889.8	889.0	888.2	889.0	889.8	890.5	891.3	891.7
152.5°	909.6	909.0	907.9	906.8	905.7	904.6	905.7	906.8	907.9	909.0	909.6
155°	925.3	924.7	923.4	922.1	920.9	919.6	920.9	922.1	923.4	924.7	925.3
157.5°	939.6	939.0	937.7	936.4	935.2	933.9	935.2	936.4	937.7	939.0	939.6
160°	951.1	950.5	949.4	948.3	947.2	946.1	947.2	948.3	949.4	950.5	951.1
162.5°	962.5	961.8	960.4	958.9	957.5	956.1	957.5	958.9	960.4	961.8	962.5
165°	971.1	970.5	969.4	968.3	967.2	966.1	967.2	968.3	969.4	970.5	971.1
167.5°	979.0	978.3	976.8	975.4	973.9	972.5	973.9	975.4	976.8	978.3	979.0
170°	984.7	984.0	982.6	981.1	979.7	978.3	979.7	981.1	982.6	984.0	984.7
172.5°	989.0	988.3	986.8	985.4	983.9	982.5	983.9	985.4	986.8	988.3	989.0
175°	991.8	991.0	989.4	987.9	986.3	984.7	986.3	987.9	989.4	991.0	991.8
177.5°	992.6	991.9	990.4	989.0	987.5	986.1	987.5	989.0	990.4	991.9	992.6
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
2.5°	548.6	552.1	550.8	545.9	551.7	551.7	555.7	555.7	560.6	562.3	565.0
5°	517.5	520.1	522.4	520.1	524.1	530.4	533.9	537.0	543.7	546.4	550.3
7.5°	484.2	489.1	491.3	491.3	497.9	505.0	512.1	516.6	525.9	529.5	533.5
10°	451.7	457.5	462.0	461.5	472.6	477.1	485.9	496.2	505.5	510.8	516.6
12.5°	417.5	420.6	426.9	435.7	438.4	446.4	456.6	469.5	486.4	491.3	499.7
15°	389.1	397.5	402.4	406.4	412.7	420.2	431.3	443.7	460.6	471.3	480.2
17.5°	365.1	376.2	379.3	378.4	386.4	398.0	410.9	420.2	435.3	448.2	456.6
20°	345.6	350.0	355.4	357.6	363.8	376.2	388.7	399.3	411.8	422.0	431.8
22.5°	326.0	329.6	334.0	338.0	342.9	350.0	362.0	375.3	387.3	397.1	408.2
25°	310.0	312.3	316.3	319.4	324.7	329.6	338.0	352.7	366.9	372.7	382.4
27.5°	294.5	296.3	298.9	302.5	305.2	310.0	317.6	329.6	344.2	350.0	363.3
30°	280.7	282.1	284.7	286.5	287.8	293.6	299.4	308.7	319.8	327.8	337.6
32.5°	267.8	269.2	271.8	272.3	274.1	277.2	282.5	290.9	300.7	307.4	315.8
35°	253.6	254.5	257.2	258.1	259.4	262.1	266.1	272.3	281.2	286.1	293.6
37.5°	242.5	242.1	243.9	245.2	247.0	248.3	249.6	255.9	262.5	267.0	272.7
40°	230.5	229.6	230.1	231.9	232.8	234.5	234.5	240.8	245.2	248.7	253.2
42.5°	218.5	218.1	217.2	218.1	219.0	219.4	219.9	224.3	228.8	231.9	236.8
45°	206.5	206.1	205.2	205.7	205.7	206.5	207.9	209.7	212.8	215.4	218.1
47.5°	195.4	194.6	193.2	192.8	193.7	193.7	193.7	195.4	198.6	199.4	202.1
50°	183.9	182.6	180.8	179.9	179.9	179.5	180.3	180.8	183.4	184.3	186.6
52.5°	171.5	170.6	168.8	167.0	167.5	166.6	167.0	167.5	168.3	169.7	171.0
55°	159.0	157.2	155.9	155.5	154.1	154.1	152.8	154.6	154.1	154.6	156.4
57.5°	147.0	145.2	143.0	142.1	140.8	140.4	139.5	139.0	139.5	140.8	142.1
60°	132.8	131.9	130.6	129.3	128.4	127.0	126.1	126.1	125.7	125.7	126.1
62.5°	119.0	118.6	116.8	116.4	115.5	114.6	113.3	112.4	112.4	113.3	113.7
65°	105.7	105.3	103.9	103.5	101.3	100.4	99.9	99.5	98.6	98.6	98.6
67.5°	93.3	91.9	91.9	89.7	87.9	87.1	86.2	85.7	85.7	85.7	86.2
70°	79.5	79.5	78.2	76.8	75.1	75.5	74.2	72.8	72.8	72.0	72.4
72.5°	66.2	65.7	64.4	64.0	62.6	61.3	60.4	61.3	60.0	59.5	60.0
75°	53.3	52.9	52.0	51.1	51.5	50.2	48.9	48.4	48.4	47.5	47.5
77.5°	40.9	41.8	40.0	39.5	38.6	37.8	37.3	36.9	36.9	36.9	37.8
80°	28.4	28.9	28.9	28.0	28.4	27.1	27.1	27.1	25.8	26.2	26.7
82.5°	18.2	18.2	17.8	18.2	17.8	17.8	17.3	17.3	16.9	16.9	17.3
85°	10.2	9.8	9.3	10.2	9.8	9.8	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	3.6	3.6	3.6
90°	17.5	16.7	15.9	15.1	14.3	13.0	11.8	10.5	9.2	8.6	7.7
92.5°	18.4	18.1	17.8	17.5	17.2	16.7	16.2	15.7	15.2	15.0	15.3
95°	31.1	30.3	29.5	28.7	27.9	26.8	25.7	24.6	23.5	22.9	25.5
97.5°	38.4	37.9	37.4	37.0	36.5	33.9	31.4	28.8	26.3	25.0	31.5
100°	45.9	44.6	43.3	42.1	40.8	38.1	35.4	32.7	30.0	28.6	39.5
102.5°	49.2	47.5	45.7	44.0	42.2	71.1	100.0	128.9	157.8	172.3	172.5
105°	50.6	48.9	47.1	45.4	43.6	87.0	130.4	173.7	217.1	238.8	236.4
107.5°	52.0	50.3	48.6	46.8	45.1	98.6	152.2	205.7	259.2	286.0	284.0
110°	61.5	77.4	93.3	109.2	125.1	171.0	217.0	262.9	308.8	331.8	330.1

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	89.3	157.8	226.3	294.8	363.3	366.0	368.7	371.4	374.1	375.4	374.0
115°	146.9	220.5	294.0	367.6	441.2	437.2	433.2	429.3	425.3	423.3	422.0
117.5°	389.0	411.7	434.4	457.1	479.8	477.1	474.4	471.7	469.0	467.7	466.1
120°	531.8	529.9	528.0	526.1	524.2	521.3	518.5	515.6	512.7	511.3	510.1
122.5°	570.2	569.3	568.3	567.4	566.4	563.2	560.0	556.9	553.7	552.1	550.8
125°	608.7	607.6	606.5	605.4	604.3	601.3	598.3	595.2	592.2	590.7	589.7
127.5°	645.7	644.1	642.5	640.9	639.3	636.9	634.5	632.2	629.8	628.6	627.5
130°	679.9	678.2	676.4	674.7	672.9	671.1	669.4	667.6	665.9	665.0	663.7
132.5°	712.3	710.8	709.4	707.9	706.5	704.8	703.0	701.3	699.6	698.7	697.7
135°	743.6	742.0	740.5	738.9	737.3	735.9	734.4	733.0	731.5	730.8	729.5
137.5°	772.9	771.3	769.8	768.2	766.6	765.0	763.4	761.8	760.2	759.4	758.5
140°	800.9	799.5	798.0	796.6	795.2	793.4	791.7	789.9	788.2	787.3	786.7
142.5°	826.8	825.5	824.2	823.0	821.7	819.6	817.6	815.5	813.4	812.4	811.8
145°	850.4	849.3	848.2	847.1	846.0	843.3	840.6	837.9	835.2	833.8	833.9
147.5°	871.3	870.5	869.7	868.9	868.1	865.4	862.7	860.0	857.3	856.0	856.2
150°	891.2	890.3	889.3	888.4	887.4	884.9	882.3	879.8	877.3	876.0	876.6
152.5°	909.1	908.2	907.2	906.3	905.3	902.9	900.5	898.2	895.8	894.6	895.2
155°	924.8	923.9	923.0	922.0	921.1	919.2	917.3	915.4	913.5	912.5	913.2
157.5°	939.0	937.9	936.8	935.7	934.6	933.2	931.8	930.3	928.9	928.2	928.8
160°	950.6	949.7	948.7	947.8	946.8	945.8	944.9	943.9	943.0	942.5	943.0
162.5°	961.9	960.8	959.7	958.6	957.5	956.7	955.9	955.1	954.3	953.9	954.4
165°	970.5	969.4	968.3	967.2	966.1	965.6	965.2	964.7	964.2	964.0	964.5
167.5°	978.4	977.3	976.2	975.1	974.0	973.5	973.0	972.5	972.0	971.8	972.3
170°	984.1	983.0	981.9	980.8	979.7	979.4	979.1	978.8	978.5	978.3	978.8
172.5°	988.4	987.3	986.2	985.1	984.0	983.7	983.3	983.0	982.7	982.5	983.0
175°	991.2	990.1	989.0	987.9	986.8	986.5	986.2	985.9	985.6	985.4	986.0
177.5°	992.0	990.9	989.8	988.7	987.6	987.4	987.2	987.1	986.9	986.8	987.4
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	577.9	577.9	577.9	577.9
2.5°	567.2	567.2	573.9	581.0
5°	554.8	557.9	568.6	578.3
7.5°	542.8	548.1	561.5	573.9
10°	528.1	535.2	551.7	566.3
12.5°	513.9	520.6	539.7	556.1
15°	493.9	502.4	522.8	543.2
17.5°	473.9	482.4	507.3	531.2
20°	450.4	461.5	489.5	521.5
22.5°	428.6	442.4	473.5	499.3
25°	404.7	426.0	454.8	488.2
27.5°	383.3	404.7	434.0	467.7
30°	359.3	381.1	411.3	442.4
32.5°	336.3	356.2	385.6	423.8
35°	312.3	331.4	359.8	398.4
37.5°	290.5	309.2	340.2	375.8
40°	269.2	288.7	315.4	350.9
42.5°	249.2	266.5	290.5	326.0
45°	231.0	243.4	265.6	298.9
47.5°	211.9	223.0	243.4	276.7
50°	194.1	203.4	221.2	252.3
52.5°	176.8	184.8	201.2	226.1
55°	161.2	168.8	180.8	205.2
57.5°	145.2	151.0	162.6	182.1
60°	129.7	135.0	144.4	160.4
62.5°	114.2	118.6	127.5	140.4
65°	100.4	103.9	110.6	121.7
67.5°	87.1	89.3	94.6	103.5
70°	74.2	76.0	80.4	87.5
72.5°	60.4	62.2	67.1	72.0
75°	48.9	49.3	52.9	56.9
77.5°	38.2	37.8	40.4	43.5
80°	26.2	27.5	29.8	31.1
82.5°	17.8	18.2	19.1	20.0
85°	9.8	10.2	10.2	11.5
87.5°	4.0	4.4	4.4	4.9
90°	6.0	4.2	2.5	0.7
92.5°	16.0	16.6	17.3	17.9
95°	30.8	36.0	41.3	46.5
97.5°	44.6	57.6	70.7	83.7
100°	61.3	83.0	104.8	126.6
102.5°	172.8	173.1	173.5	173.8
105°	231.7	226.9	222.2	217.4
107.5°	280.1	276.1	272.2	268.2
110°	326.8	323.5	320.1	316.8



TEST NUMBER: P1029398

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	371.1	368.3	365.4	362.6
115°	419.3	416.6	413.9	411.2
117.5°	462.9	459.8	456.6	453.4
120°	507.7	505.4	503.0	500.6
122.5°	548.3	545.7	543.2	540.6
125°	587.6	585.5	583.5	581.4
127.5°	625.3	623.0	620.8	618.6
130°	661.2	658.7	656.1	653.6
132.5°	695.6	693.5	691.5	689.4
135°	727.0	724.5	721.9	719.4
137.5°	756.6	754.7	752.8	750.9
140°	785.4	784.1	782.9	781.6
142.5°	810.7	809.6	808.4	807.3
145°	834.0	834.2	834.3	834.5
147.5°	856.7	857.2	857.6	858.1
150°	877.7	878.8	879.9	881.0
152.5°	896.5	897.8	899.0	900.3
155°	914.6	916.1	917.5	918.9
157.5°	930.1	931.4	932.6	933.9
160°	943.9	944.9	945.8	946.8
162.5°	955.3	956.3	957.2	958.2
165°	965.4	966.3	967.3	968.2
167.5°	973.2	974.2	975.1	976.1
170°	979.7	980.6	981.6	982.5
172.5°	983.9	984.9	985.8	986.8
175°	987.1	988.2	989.3	990.4
177.5°	988.5	989.6	990.7	991.8
180°	988.3	988.3	988.3	988.3

(END OF REPORT)