

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: P1029395

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029395
REPORT IS A COMBINATION OF REPORTS P985751 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-A1_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

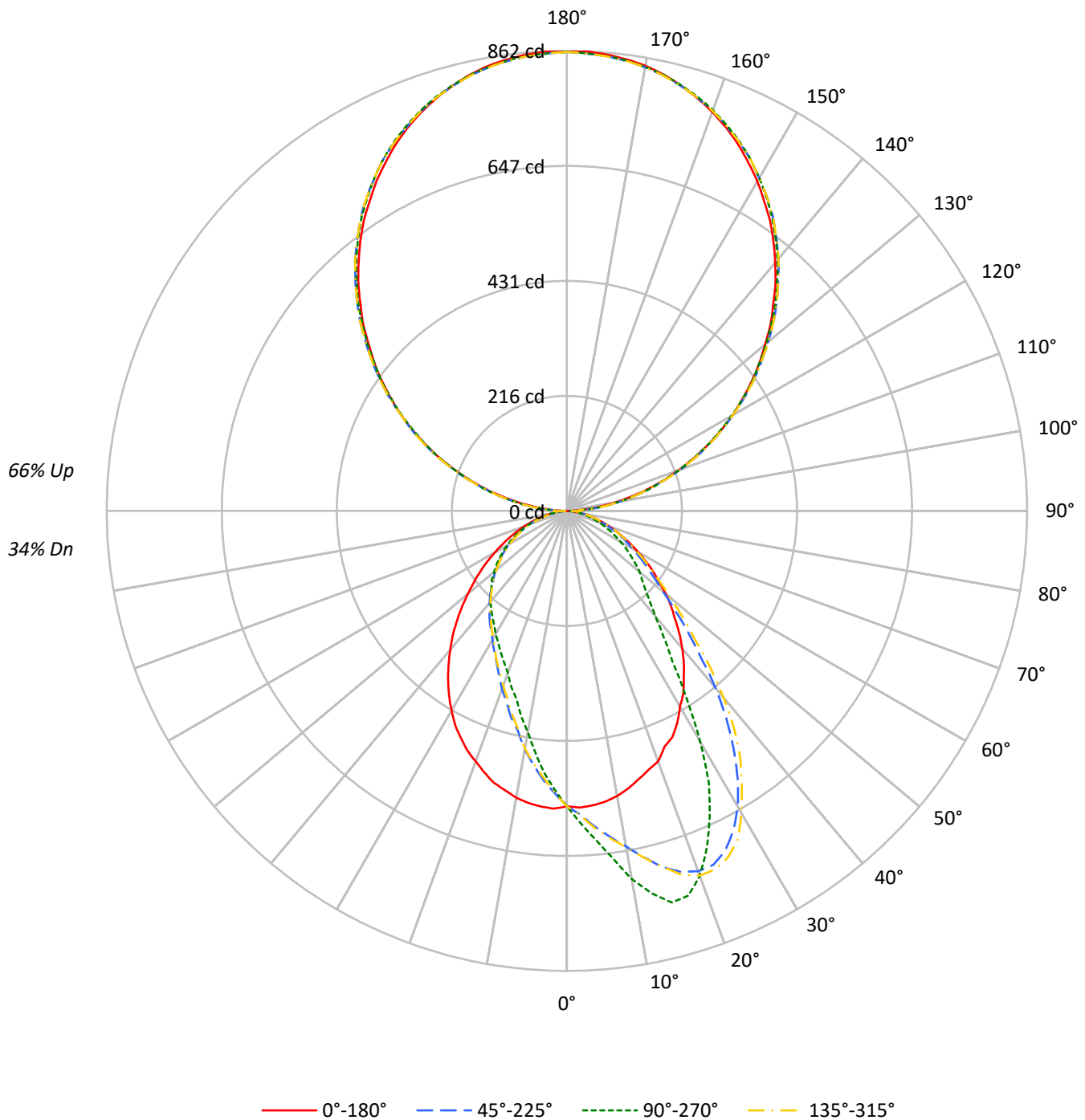
Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41			34
1	94	90	87	83	85	82	79	76	65	63	61	51	49	48	37	36	35			29
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	31	30			25
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26			21
4	72	62	54	49	65	56	50	45	46	41	37	36	32	30	26	24	23			19
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20			16
6	61	50	42	36	55	45	38	34	37	32	28	29	26	23	22	20	18			15
7	57	45	37	32	51	41	34	30	33	29	25	27	23	20	20	18	16			13
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14			12
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13			11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12			10

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

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.5
10°-20°	153.4	4.2
20°-30°	222.7	6.1
30°-40°	234.7	6.5
40°-50°	207.7	5.7
50°-60°	165.9	4.6
60°-70°	112.7	3.1
70°-80°	57.6	1.6
80°-90°	16.1	0.4
90°-100°	53.2	1.5
100°-110°	169.1	4.7
110°-120°	289.4	8.0
120°-130°	380.6	10.5
130°-140°	427.2	11.8
140°-150°	419.0	11.5
150°-160°	351.4	9.7
160°-170°	233.1	6.4
170°-180°	81.5	2.2
0°-30°	428.8	11.8
0°-40°	663.5	18.3
0°-60°	1037.1	28.6
0°-90°	1223.5	33.7
90°-120°	511.8	14.1
90°-150°	1738.6	47.9
90°-180°	2405.0	66.3
0°-180°	3628.0	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	25	1	25	1	3
95°	38	45	38	45	38	42
105°	156	161	156	161	156	165
115°	290	290	290	290	290	287
125°	422	424	422	424	422	377
135°	546	553	546	553	546	422
145°	663	671	663	671	663	414
155°	758	764	758	764	758	349
165°	825	826	825	826	825	233
175°	859	856	859	856	859	82
180°	860	860	860	860	860	

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

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	2.6	4.6	6.5	8.4	9.4	11.2	14.7	18.3	21.8	25.4
92.5°	16.0	17.3	18.6	19.9	21.2	21.8	21.9	22.0	22.2	22.3	22.5
95°	37.7	39.3	40.9	42.6	44.2	45.0	45.2	45.5	45.8	46.2	46.5
97.5°	63.1	64.6	66.0	67.5	69.0	69.7	70.0	70.7	71.3	72.0	72.6
100°	92.2	93.5	94.8	96.1	97.4	98.0	98.2	98.7	99.2	99.7	100.2
102.5°	122.7	123.7	124.6	125.6	126.5	127.0	127.3	128.0	128.6	129.3	129.9
105°	156.0	156.5	157.0	157.5	158.0	158.2	158.4	158.7	159.0	159.4	159.7
107.5°	189.4	190.0	190.7	191.3	192.0	192.3	192.3	192.3	192.3	192.3	192.3
110°	221.4	222.4	223.3	224.3	225.2	225.7	225.7	225.7	225.7	225.7	225.7



TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	256.2	257.2	258.2	259.1	260.1	260.6	260.5	260.3	260.2	260.0	259.8
115°	290.3	291.3	292.3	293.2	294.2	294.7	294.5	294.2	293.9	293.5	293.2
117.5°	324.4	325.7	327.0	328.3	329.6	330.2	329.8	329.0	328.2	327.4	326.6
120°	358.5	359.8	361.1	362.4	363.7	364.3	363.7	362.4	361.1	359.8	358.5
122.5°	389.7	391.3	392.9	394.6	396.2	397.0	396.6	395.8	395.0	394.2	393.4
125°	422.4	423.8	425.3	426.7	428.2	428.9	428.7	428.2	427.7	427.3	426.8
127.5°	454.3	456.1	457.9	459.6	461.4	462.3	462.0	461.3	460.7	460.0	459.4
130°	484.1	486.2	488.3	490.4	492.5	493.5	493.3	493.0	492.7	492.4	492.1
132.5°	517.5	519.1	520.7	522.3	523.9	524.7	524.8	525.0	525.1	525.3	525.5
135°	546.5	548.3	550.1	551.8	553.6	554.5	554.7	555.0	555.3	555.7	556.0
137.5°	578.5	579.9	581.4	582.8	584.3	585.0	585.2	585.5	585.8	586.1	586.4
140°	606.8	608.2	609.7	611.1	612.6	613.3	613.7	614.5	615.3	616.1	616.9
142.5°	635.8	637.2	638.7	640.1	641.6	642.3	642.5	643.0	643.5	644.0	644.5
145°	663.4	664.5	665.6	666.7	667.8	668.4	668.9	669.9	670.8	671.8	672.8
147.5°	688.0	689.5	690.9	692.4	693.9	694.6	694.9	695.6	696.2	696.9	697.5
150°	713.4	714.4	715.4	716.3	717.3	717.8	718.1	718.8	719.4	720.1	720.7
152.5°	735.9	736.9	737.9	738.8	739.8	740.3	740.7	741.5	742.3	743.1	743.9
155°	758.4	758.9	759.4	759.9	760.4	760.6	760.8	761.3	761.8	762.3	762.8
157.5°	778.0	778.3	778.7	779.0	779.3	779.5	779.7	780.0	780.3	780.6	780.9
160°	795.5	795.8	796.1	796.4	796.7	796.9	797.0	797.1	797.3	797.4	797.6
162.5°	811.4	811.4	811.4	811.4	811.4	811.4	811.5	811.7	811.8	812.0	812.2
165°	825.2	825.0	824.9	824.7	824.6	824.5	824.5	824.5	824.5	824.5	824.5
167.5°	837.6	837.1	836.6	836.1	835.6	835.4	835.4	835.4	835.4	835.4	835.4
170°	847.0	846.5	846.0	845.5	845.0	844.8	844.7	844.6	844.4	844.3	844.1
172.5°	853.5	853.0	852.5	852.0	851.5	851.3	851.2	851.1	850.9	850.8	850.6
175°	858.6	858.1	857.6	857.1	856.6	856.4	856.2	855.9	855.6	855.3	855.0
177.5°	861.5	861.0	860.5	860.0	859.5	859.3	859.1	858.8	858.5	858.2	857.9
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

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°	25.1	24.8	24.5	24.2	24.0	24.1	24.2	24.4	24.5	24.7	24.5
92.5°	22.7	22.8	23.0	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
95°	46.5	46.5	46.5	46.5	46.5	46.3	46.0	45.7	45.3	45.0	45.3
97.5°	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
100°	100.2	100.2	100.2	100.2	100.2	100.1	99.9	99.8	99.6	99.4	99.6
102.5°	130.1	130.2	130.4	130.5	130.6	130.5	130.4	130.2	130.1	129.9	130.1
105°	160.0	160.3	160.6	160.9	161.1	161.1	161.1	161.1	161.1	161.1	161.1
107.5°	192.5	192.7	192.8	193.0	193.1	192.7	191.9	191.0	190.2	189.4	190.2
110°	225.7	225.7	225.7	225.7	225.7	225.5	225.0	224.5	224.0	223.5	224.0



TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	259.3	258.9	258.4	257.9	257.7	257.5	257.2	256.9	256.5	256.2	256.5
115°	293.0	292.9	292.7	292.6	292.5	292.3	291.8	291.3	290.8	290.3	290.8
117.5°	326.1	325.6	325.1	324.6	324.4	324.2	323.7	323.2	322.7	322.2	322.7
120°	358.5	358.5	358.5	358.5	358.5	358.3	357.8	357.3	356.9	356.4	356.9
122.5°	392.9	392.4	391.9	391.4	391.2	391.0	390.7	390.4	390.0	389.7	390.0
125°	426.3	425.8	425.3	424.8	424.6	424.5	424.4	424.2	424.1	423.9	424.1
127.5°	458.8	458.1	457.5	456.8	456.5	456.3	455.8	455.3	454.8	454.3	454.8
130°	491.8	491.4	491.1	490.8	490.6	490.3	489.6	489.0	488.3	487.7	488.3
132.5°	524.7	523.9	523.0	522.2	521.8	521.6	521.1	520.6	520.2	519.7	520.2
135°	555.8	555.6	555.5	555.3	555.2	555.0	554.5	554.0	553.5	553.0	553.5
137.5°	586.2	586.1	585.9	585.8	585.7	585.4	584.7	584.1	583.4	582.8	583.4
140°	616.9	616.9	616.9	616.9	616.9	616.6	615.9	615.3	614.6	614.0	614.6
142.5°	644.7	644.8	645.0	645.1	645.2	644.9	644.2	643.6	642.9	642.3	642.9
145°	673.0	673.1	673.3	673.4	673.5	673.2	672.5	671.9	671.2	670.6	671.2
147.5°	697.8	698.1	698.4	698.7	698.9	698.6	697.9	697.3	696.6	696.0	696.6
150°	721.2	721.7	722.2	722.7	722.9	722.7	722.2	721.7	721.2	720.7	721.2
152.5°	744.5	745.2	745.8	746.5	746.8	746.5	745.8	745.2	744.5	743.9	744.5
155°	763.6	764.4	765.2	766.0	766.4	766.2	765.7	765.2	764.8	764.3	764.8
157.5°	782.0	783.2	784.3	785.4	786.0	785.6	784.8	784.0	783.2	782.4	783.2
160°	798.6	799.6	800.5	801.5	802.0	801.7	801.0	800.4	799.7	799.1	799.7
162.5°	813.3	814.4	815.5	816.6	817.2	816.8	816.0	815.2	814.4	813.6	814.4
165°	825.6	826.8	827.9	829.0	829.6	829.2	828.4	827.5	826.7	825.9	826.7
167.5°	836.5	837.7	838.8	839.9	840.5	840.1	839.3	838.4	837.6	836.8	837.6
170°	845.2	846.4	847.5	848.6	849.2	848.7	847.7	846.8	845.8	844.8	845.8
172.5°	851.7	852.9	854.0	855.1	855.7	855.2	854.2	853.3	852.3	851.3	852.3
175°	856.1	857.3	858.4	859.5	860.1	859.6	858.6	857.7	856.7	855.7	856.7
177.5°	858.9	859.8	860.8	861.7	862.2	861.7	860.8	859.8	858.9	857.9	858.9
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

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°	24.4	24.2	24.1	24.0	24.2	24.5	24.8	25.1	25.4	21.8	18.3
92.5°	23.2	23.2	23.2	23.2	23.1	23.0	22.8	22.7	22.5	22.3	22.2
95°	45.7	46.0	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.2	45.8
97.5°	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.0	71.3
100°	99.8	99.9	100.1	100.2	100.2	100.2	100.2	100.2	100.2	99.7	99.2
102.5°	130.2	130.4	130.5	130.6	130.5	130.4	130.2	130.1	129.9	129.3	128.6
105°	161.1	161.1	161.1	161.1	160.9	160.6	160.3	160.0	159.7	159.4	159.0
107.5°	191.0	191.9	192.7	193.1	193.0	192.8	192.7	192.5	192.3	192.3	192.3
110°	224.5	225.0	225.5	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	256.9	257.2	257.5	257.7	257.9	258.4	258.9	259.3	259.8	260.0	260.2
115°	291.3	291.8	292.3	292.5	292.6	292.7	292.9	293.0	293.2	293.5	293.9
117.5°	323.2	323.7	324.2	324.4	324.6	325.1	325.6	326.1	326.6	327.4	328.2
120°	357.3	357.8	358.3	358.5	358.5	358.5	358.5	358.5	358.5	359.8	361.1
122.5°	390.4	390.7	391.0	391.2	391.4	391.9	392.4	392.9	393.4	394.2	395.0
125°	424.2	424.4	424.5	424.6	424.8	425.3	425.8	426.3	426.8	427.3	427.7
127.5°	455.3	455.8	456.3	456.5	456.8	457.5	458.1	458.8	459.4	460.0	460.7
130°	489.0	489.6	490.3	490.6	490.8	491.1	491.4	491.8	492.1	492.4	492.7
132.5°	520.6	521.1	521.6	521.8	522.2	523.0	523.9	524.7	525.5	525.3	525.1
135°	554.0	554.5	555.0	555.2	555.3	555.5	555.6	555.8	556.0	555.7	555.3
137.5°	584.1	584.7	585.4	585.7	585.8	585.9	586.1	586.2	586.4	586.1	585.8
140°	615.3	615.9	616.6	616.9	616.9	616.9	616.9	616.9	616.9	616.1	615.3
142.5°	643.6	644.2	644.9	645.2	645.1	645.0	644.8	644.7	644.5	644.0	643.5
145°	671.9	672.5	673.2	673.5	673.4	673.3	673.1	673.0	672.8	671.8	670.8
147.5°	697.3	697.9	698.6	698.9	698.7	698.4	698.1	697.8	697.5	696.9	696.2
150°	721.7	722.2	722.7	722.9	722.7	722.2	721.7	721.2	720.7	720.1	719.4
152.5°	745.2	745.8	746.5	746.8	746.5	745.8	745.2	744.5	743.9	743.1	742.3
155°	765.2	765.7	766.2	766.4	766.0	765.2	764.4	763.6	762.8	762.3	761.8
157.5°	784.0	784.8	785.6	786.0	785.4	784.3	783.2	782.0	780.9	780.6	780.3
160°	800.4	801.0	801.7	802.0	801.5	800.5	799.6	798.6	797.6	797.4	797.3
162.5°	815.2	816.0	816.8	817.2	816.6	815.5	814.4	813.3	812.2	812.0	811.8
165°	827.5	828.4	829.2	829.6	829.0	827.9	826.8	825.6	824.5	824.5	824.5
167.5°	838.4	839.3	840.1	840.5	839.9	838.8	837.7	836.5	835.4	835.4	835.4
170°	846.8	847.7	848.7	849.2	848.6	847.5	846.4	845.2	844.1	844.3	844.4
172.5°	853.3	854.2	855.2	855.7	855.1	854.0	852.9	851.7	850.6	850.8	850.9
175°	857.7	858.6	859.6	860.1	859.5	858.4	857.3	856.1	855.0	855.3	855.6
177.5°	859.8	860.8	861.7	862.2	861.7	860.8	859.8	858.9	857.9	858.2	858.5
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_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°	14.7	11.2	9.4	8.4	6.5	4.6	2.6	0.7	2.6	4.6	6.5
92.5°	22.0	21.9	21.8	21.2	19.9	18.6	17.3	16.0	17.3	18.6	19.9
95°	45.5	45.2	45.0	44.2	42.6	40.9	39.3	37.7	39.3	40.9	42.6
97.5°	70.7	70.0	69.7	69.0	67.5	66.0	64.6	63.1	64.6	66.0	67.5
100°	98.7	98.2	98.0	97.4	96.1	94.8	93.5	92.2	93.5	94.8	96.1
102.5°	128.0	127.3	127.0	126.5	125.6	124.6	123.7	122.7	123.7	124.6	125.6
105°	158.7	158.4	158.2	158.0	157.5	157.0	156.5	156.0	156.5	157.0	157.5
107.5°	192.3	192.3	192.3	192.0	191.3	190.7	190.0	189.4	190.0	190.7	191.3
110°	225.7	225.7	225.7	225.2	224.3	223.3	222.4	221.4	222.4	223.3	224.3

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	260.3	260.5	260.6	260.1	259.1	258.2	257.2	256.2	257.2	258.2	259.1
115°	294.2	294.5	294.7	294.2	293.2	292.3	291.3	290.3	291.3	292.3	293.2
117.5°	329.0	329.8	330.2	329.6	328.3	327.0	325.7	324.4	325.7	327.0	328.3
120°	362.4	363.7	364.3	363.7	362.4	361.1	359.8	358.5	359.8	361.1	362.4
122.5°	395.8	396.6	397.0	396.2	394.6	392.9	391.3	389.7	391.3	392.9	394.6
125°	428.2	428.7	428.9	428.2	426.7	425.3	423.8	422.4	423.8	425.3	426.7
127.5°	461.3	462.0	462.3	461.4	459.6	457.9	456.1	454.3	456.1	457.9	459.6
130°	493.0	493.3	493.5	492.5	490.4	488.3	486.2	484.1	486.2	488.3	490.4
132.5°	525.0	524.8	524.7	523.9	522.3	520.7	519.1	517.5	519.1	520.7	522.3
135°	555.0	554.7	554.5	553.6	551.8	550.1	548.3	546.5	548.3	550.1	551.8
137.5°	585.5	585.2	585.0	584.3	582.8	581.4	579.9	578.5	579.9	581.4	582.8
140°	614.5	613.7	613.3	612.6	611.1	609.7	608.2	606.8	608.2	609.7	611.1
142.5°	643.0	642.5	642.3	641.6	640.1	638.7	637.2	635.8	637.2	638.7	640.1
145°	669.9	668.9	668.4	667.8	666.7	665.6	664.5	663.4	664.5	665.6	666.7
147.5°	695.6	694.9	694.6	693.9	692.4	690.9	689.5	688.0	689.5	690.9	692.4
150°	718.8	718.1	717.8	717.3	716.3	715.4	714.4	713.4	714.4	715.4	716.3
152.5°	741.5	740.7	740.3	739.8	738.8	737.9	736.9	735.9	736.9	737.9	738.8
155°	761.3	760.8	760.6	760.4	759.9	759.4	758.9	758.4	758.9	759.4	759.9
157.5°	780.0	779.7	779.5	779.3	779.0	778.7	778.3	778.0	778.3	778.7	779.0
160°	797.1	797.0	796.9	796.7	796.4	796.1	795.8	795.5	795.8	796.1	796.4
162.5°	811.7	811.5	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
165°	824.5	824.5	824.5	824.6	824.7	824.9	825.0	825.2	825.0	824.9	824.7
167.5°	835.4	835.4	835.4	835.6	836.1	836.6	837.1	837.6	837.1	836.6	836.1
170°	844.6	844.7	844.8	845.0	845.5	846.0	846.5	847.0	846.5	846.0	845.5
172.5°	851.1	851.2	851.3	851.5	852.0	852.5	853.0	853.5	853.0	852.5	852.0
175°	855.9	856.2	856.4	856.6	857.1	857.6	858.1	858.6	858.1	857.6	857.1
177.5°	858.8	859.1	859.3	859.5	860.0	860.5	861.0	861.5	861.0	860.5	860.0
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_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°	8.4	9.4	11.2	14.7	18.3	21.8	25.4	25.1	24.8	24.5	24.2
92.5°	21.2	21.8	21.9	22.0	22.2	22.3	22.5	22.7	22.8	23.0	23.1
95°	44.2	45.0	45.2	45.5	45.8	46.2	46.5	46.5	46.5	46.5	46.5
97.5°	69.0	69.7	70.0	70.7	71.3	72.0	72.6	72.6	72.6	72.6	72.6
100°	97.4	98.0	98.2	98.7	99.2	99.7	100.2	100.2	100.2	100.2	100.2
102.5°	126.5	127.0	127.3	128.0	128.6	129.3	129.9	130.1	130.2	130.4	130.5
105°	158.0	158.2	158.4	158.7	159.0	159.4	159.7	160.0	160.3	160.6	160.9
107.5°	192.0	192.3	192.3	192.3	192.3	192.3	192.3	192.5	192.7	192.8	193.0
110°	225.2	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	260.1	260.6	260.5	260.3	260.2	260.0	259.8	259.3	258.9	258.4	257.9
115°	294.2	294.7	294.5	294.2	293.9	293.5	293.2	293.0	292.9	292.7	292.6
117.5°	329.6	330.2	329.8	329.0	328.2	327.4	326.6	326.1	325.6	325.1	324.6
120°	363.7	364.3	363.7	362.4	361.1	359.8	358.5	358.5	358.5	358.5	358.5
122.5°	396.2	397.0	396.6	395.8	395.0	394.2	393.4	392.9	392.4	391.9	391.4
125°	428.2	428.9	428.7	428.2	427.7	427.3	426.8	426.3	425.8	425.3	424.8
127.5°	461.4	462.3	462.0	461.3	460.7	460.0	459.4	458.8	458.1	457.5	456.8
130°	492.5	493.5	493.3	493.0	492.7	492.4	492.1	491.8	491.4	491.1	490.8
132.5°	523.9	524.7	524.8	525.0	525.1	525.3	525.5	524.7	523.9	523.0	522.2
135°	553.6	554.5	554.7	555.0	555.3	555.7	556.0	555.8	555.6	555.5	555.3
137.5°	584.3	585.0	585.2	585.5	585.8	586.1	586.4	586.2	586.1	585.9	585.8
140°	612.6	613.3	613.7	614.5	615.3	616.1	616.9	616.9	616.9	616.9	616.9
142.5°	641.6	642.3	642.5	643.0	643.5	644.0	644.5	644.7	644.8	645.0	645.1
145°	667.8	668.4	668.9	669.9	670.8	671.8	672.8	673.0	673.1	673.3	673.4
147.5°	693.9	694.6	694.9	695.6	696.2	696.9	697.5	697.8	698.1	698.4	698.7
150°	717.3	717.8	718.1	718.8	719.4	720.1	720.7	721.2	721.7	722.2	722.7
152.5°	739.8	740.3	740.7	741.5	742.3	743.1	743.9	744.5	745.2	745.8	746.5
155°	760.4	760.6	760.8	761.3	761.8	762.3	762.8	763.6	764.4	765.2	766.0
157.5°	779.3	779.5	779.7	780.0	780.3	780.6	780.9	782.0	783.2	784.3	785.4
160°	796.7	796.9	797.0	797.1	797.3	797.4	797.6	798.6	799.6	800.5	801.5
162.5°	811.4	811.4	811.5	811.7	811.8	812.0	812.2	813.3	814.4	815.5	816.6
165°	824.6	824.5	824.5	824.5	824.5	824.5	824.5	825.6	826.8	827.9	829.0
167.5°	835.6	835.4	835.4	835.4	835.4	835.4	835.4	836.5	837.7	838.8	839.9
170°	845.0	844.8	844.7	844.6	844.4	844.3	844.1	845.2	846.4	847.5	848.6
172.5°	851.5	851.3	851.2	851.1	850.9	850.8	850.6	851.7	852.9	854.0	855.1
175°	856.6	856.4	856.2	855.9	855.6	855.3	855.0	856.1	857.3	858.4	859.5
177.5°	859.5	859.3	859.1	858.8	858.5	858.2	857.9	858.9	859.8	860.8	861.7
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_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°	24.0	24.1	24.2	24.4	24.5	24.7	24.5	24.4	24.2	24.1	24.0
92.5°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
95°	46.5	46.3	46.0	45.7	45.3	45.0	45.3	45.7	46.0	46.3	46.5
97.5°	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
100°	100.2	100.1	99.9	99.8	99.6	99.4	99.6	99.8	99.9	100.1	100.2
102.5°	130.6	130.5	130.4	130.2	130.1	129.9	130.1	130.2	130.4	130.5	130.6
105°	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1
107.5°	193.1	192.7	191.9	191.0	190.2	189.4	190.2	191.0	191.9	192.7	193.1
110°	225.7	225.5	225.0	224.5	224.0	223.5	224.0	224.5	225.0	225.5	225.7



TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	257.7	257.5	257.2	256.9	256.5	256.2	256.5	256.9	257.2	257.5	257.7
115°	292.5	292.3	291.8	291.3	290.8	290.3	290.8	291.3	291.8	292.3	292.5
117.5°	324.4	324.2	323.7	323.2	322.7	322.2	322.7	323.2	323.7	324.2	324.4
120°	358.5	358.3	357.8	357.3	356.9	356.4	356.9	357.3	357.8	358.3	358.5
122.5°	391.2	391.0	390.7	390.4	390.0	389.7	390.0	390.4	390.7	391.0	391.2
125°	424.6	424.5	424.4	424.2	424.1	423.9	424.1	424.2	424.4	424.5	424.6
127.5°	456.5	456.3	455.8	455.3	454.8	454.3	454.8	455.3	455.8	456.3	456.5
130°	490.6	490.3	489.6	489.0	488.3	487.7	488.3	489.0	489.6	490.3	490.6
132.5°	521.8	521.6	521.1	520.6	520.2	519.7	520.2	520.6	521.1	521.6	521.8
135°	555.2	555.0	554.5	554.0	553.5	553.0	553.5	554.0	554.5	555.0	555.2
137.5°	585.7	585.4	584.7	584.1	583.4	582.8	583.4	584.1	584.7	585.4	585.7
140°	616.9	616.6	615.9	615.3	614.6	614.0	614.6	615.3	615.9	616.6	616.9
142.5°	645.2	644.9	644.2	643.6	642.9	642.3	642.9	643.6	644.2	644.9	645.2
145°	673.5	673.2	672.5	671.9	671.2	670.6	671.2	671.9	672.5	673.2	673.5
147.5°	698.9	698.6	697.9	697.3	696.6	696.0	696.6	697.3	697.9	698.6	698.9
150°	722.9	722.7	722.2	721.7	721.2	720.7	721.2	721.7	722.2	722.7	722.9
152.5°	746.8	746.5	745.8	745.2	744.5	743.9	744.5	745.2	745.8	746.5	746.8
155°	766.4	766.2	765.7	765.2	764.8	764.3	764.8	765.2	765.7	766.2	766.4
157.5°	786.0	785.6	784.8	784.0	783.2	782.4	783.2	784.0	784.8	785.6	786.0
160°	802.0	801.7	801.0	800.4	799.7	799.1	799.7	800.4	801.0	801.7	802.0
162.5°	817.2	816.8	816.0	815.2	814.4	813.6	814.4	815.2	816.0	816.8	817.2
165°	829.6	829.2	828.4	827.5	826.7	825.9	826.7	827.5	828.4	829.2	829.6
167.5°	840.5	840.1	839.3	838.4	837.6	836.8	837.6	838.4	839.3	840.1	840.5
170°	849.2	848.7	847.7	846.8	845.8	844.8	845.8	846.8	847.7	848.7	849.2
172.5°	855.7	855.2	854.2	853.3	852.3	851.3	852.3	853.3	854.2	855.2	855.7
175°	860.1	859.6	858.6	857.7	856.7	855.7	856.7	857.7	858.6	859.6	860.1
177.5°	862.2	861.7	860.8	859.8	858.9	857.9	858.9	859.8	860.8	861.7	862.2
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

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°	24.2	24.5	24.8	25.1	25.4	21.8	18.3	14.7	11.2	9.4	8.4
92.5°	23.1	23.0	22.8	22.7	22.5	22.3	22.2	22.0	21.9	21.8	21.2
95°	46.5	46.5	46.5	46.5	46.5	46.2	45.8	45.5	45.2	45.0	44.2
97.5°	72.6	72.6	72.6	72.6	72.6	72.0	71.3	70.7	70.0	69.7	69.0
100°	100.2	100.2	100.2	100.2	100.2	99.7	99.2	98.7	98.2	98.0	97.4
102.5°	130.5	130.4	130.2	130.1	129.9	129.3	128.6	128.0	127.3	127.0	126.5
105°	160.9	160.6	160.3	160.0	159.7	159.4	159.0	158.7	158.4	158.2	158.0
107.5°	193.0	192.8	192.7	192.5	192.3	192.3	192.3	192.3	192.3	192.3	192.0
110°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.2

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	257.9	258.4	258.9	259.3	259.8	260.0	260.2	260.3	260.5	260.6	260.1
115°	292.6	292.7	292.9	293.0	293.2	293.5	293.9	294.2	294.5	294.7	294.2
117.5°	324.6	325.1	325.6	326.1	326.6	327.4	328.2	329.0	329.8	330.2	329.6
120°	358.5	358.5	358.5	358.5	358.5	359.8	361.1	362.4	363.7	364.3	363.7
122.5°	391.4	391.9	392.4	392.9	393.4	394.2	395.0	395.8	396.6	397.0	396.2
125°	424.8	425.3	425.8	426.3	426.8	427.3	427.7	428.2	428.7	428.9	428.2
127.5°	456.8	457.5	458.1	458.8	459.4	460.0	460.7	461.3	462.0	462.3	461.4
130°	490.8	491.1	491.4	491.8	492.1	492.4	492.7	493.0	493.3	493.5	492.5
132.5°	522.2	523.0	523.9	524.7	525.5	525.3	525.1	525.0	524.8	524.7	523.9
135°	555.3	555.5	555.6	555.8	556.0	555.7	555.3	555.0	554.7	554.5	553.6
137.5°	585.8	585.9	586.1	586.2	586.4	586.1	585.8	585.5	585.2	585.0	584.3
140°	616.9	616.9	616.9	616.9	616.9	616.1	615.3	614.5	613.7	613.3	612.6
142.5°	645.1	645.0	644.8	644.7	644.5	644.0	643.5	643.0	642.5	642.3	641.6
145°	673.4	673.3	673.1	673.0	672.8	671.8	670.8	669.9	668.9	668.4	667.8
147.5°	698.7	698.4	698.1	697.8	697.5	696.9	696.2	695.6	694.9	694.6	693.9
150°	722.7	722.2	721.7	721.2	720.7	720.1	719.4	718.8	718.1	717.8	717.3
152.5°	746.5	745.8	745.2	744.5	743.9	743.1	742.3	741.5	740.7	740.3	739.8
155°	766.0	765.2	764.4	763.6	762.8	762.3	761.8	761.3	760.8	760.6	760.4
157.5°	785.4	784.3	783.2	782.0	780.9	780.6	780.3	780.0	779.7	779.5	779.3
160°	801.5	800.5	799.6	798.6	797.6	797.4	797.3	797.1	797.0	796.9	796.7
162.5°	816.6	815.5	814.4	813.3	812.2	812.0	811.8	811.7	811.5	811.4	811.4
165°	829.0	827.9	826.8	825.6	824.5	824.5	824.5	824.5	824.5	824.5	824.6
167.5°	839.9	838.8	837.7	836.5	835.4	835.4	835.4	835.4	835.4	835.4	835.6
170°	848.6	847.5	846.4	845.2	844.1	844.3	844.4	844.6	844.7	844.8	845.0
172.5°	855.1	854.0	852.9	851.7	850.6	850.8	850.9	851.1	851.2	851.3	851.5
175°	859.5	858.4	857.3	856.1	855.0	855.3	855.6	855.9	856.2	856.4	856.6
177.5°	861.7	860.8	859.8	858.9	857.9	858.2	858.5	858.8	859.1	859.3	859.5
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_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°	6.5	4.6	2.6	0.7
92.5°	19.9	18.6	17.3	16.0
95°	42.6	40.9	39.3	37.7
97.5°	67.5	66.0	64.6	63.1
100°	96.1	94.8	93.5	92.2
102.5°	125.6	124.6	123.7	122.7
105°	157.5	157.0	156.5	156.0
107.5°	191.3	190.7	190.0	189.4
110°	224.3	223.3	222.4	221.4



TEST NUMBER: P1029395

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	259.1	258.2	257.2	256.2
115°	293.2	292.3	291.3	290.3
117.5°	328.3	327.0	325.7	324.4
120°	362.4	361.1	359.8	358.5
122.5°	394.6	392.9	391.3	389.7
125°	426.7	425.3	423.8	422.4
127.5°	459.6	457.9	456.1	454.3
130°	490.4	488.3	486.2	484.1
132.5°	522.3	520.7	519.1	517.5
135°	551.8	550.1	548.3	546.5
137.5°	582.8	581.4	579.9	578.5
140°	611.1	609.7	608.2	606.8
142.5°	640.1	638.7	637.2	635.8
145°	666.7	665.6	664.5	663.4
147.5°	692.4	690.9	689.5	688.0
150°	716.3	715.4	714.4	713.4
152.5°	738.8	737.9	736.9	735.9
155°	759.9	759.4	758.9	758.4
157.5°	779.0	778.7	778.3	778.0
160°	796.4	796.1	795.8	795.5
162.5°	811.4	811.4	811.4	811.4
165°	824.7	824.9	825.0	825.2
167.5°	836.1	836.6	837.1	837.6
170°	845.5	846.0	846.5	847.0
172.5°	852.0	852.5	853.0	853.5
175°	857.1	857.6	858.1	858.6
177.5°	860.0	860.5	861.0	861.5
180°	860.1	860.1	860.1	860.1

(END OF REPORT)