

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: P1029396

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029396
REPORT IS A COMBINATION OF REPORTS P985757 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

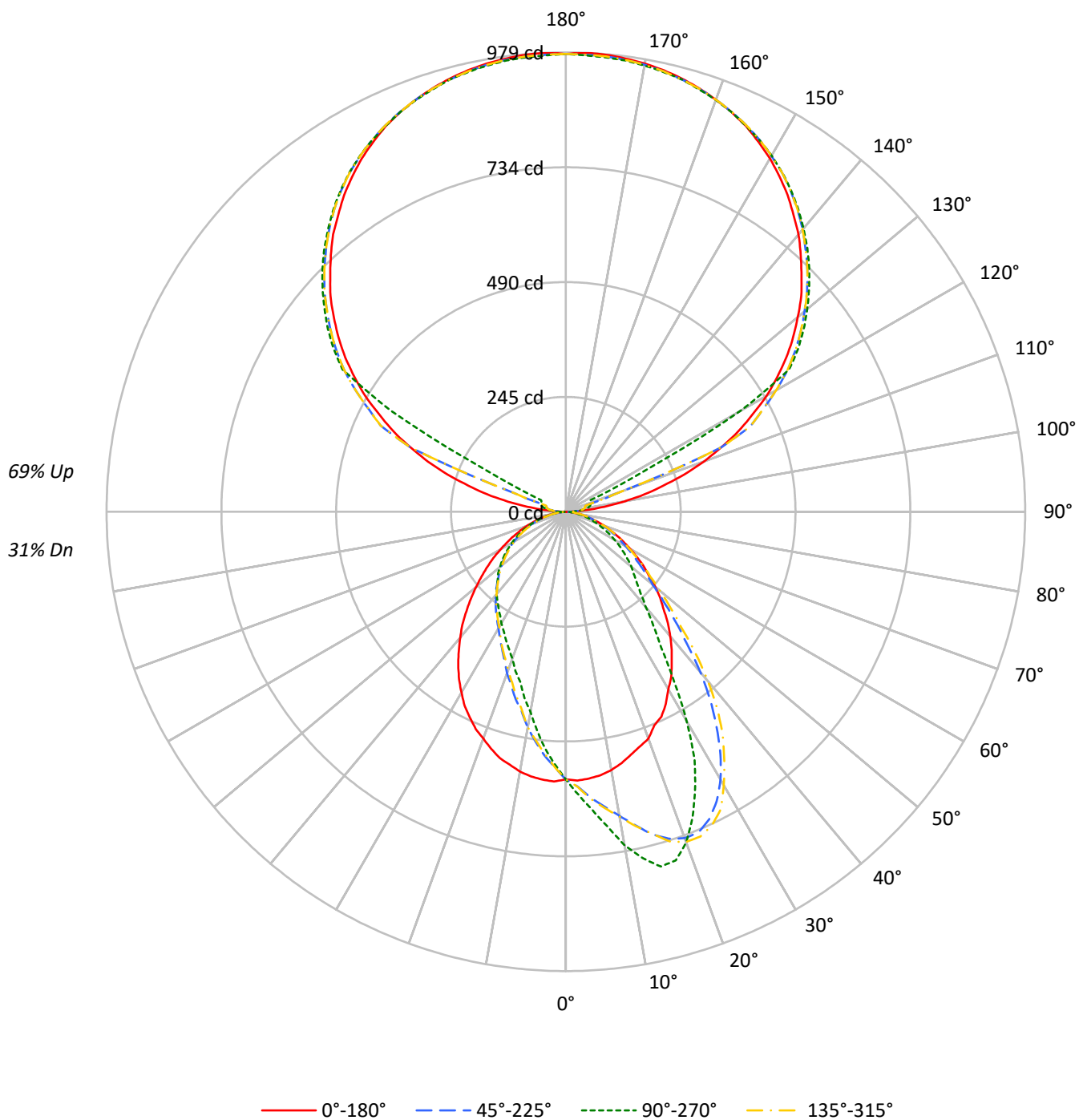
Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31			
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	34	33	26			
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	23			
3	78	69	62	57	70	63	57	52	50	46	42	38	35	33	27	26	24	19			
4	72	61	54	48	64	56	49	44	44	40	36	34	31	29	25	23	21	17			
5	66	55	47	41	59	50	43	38	40	35	31	31	27	25	22	20	19	15			
6	61	49	41	36	54	45	38	33	36	31	27	28	24	22	20	18	16	13			
7	56	44	37	31	50	40	34	29	33	28	24	25	22	19	19	16	15	12			
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13	11			
9	48	37	29	25	43	33	27	23	27	22	19	21	18	16	16	14	12	10			
10	45	33	27	22	41	31	24	20	25	20	17	20	16	14	15	13	11	9			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9026	9026	9026	9026
5°	9047	9623	9082	7656
10°	8942	10506	8998	6312
15°	8725	11080	8846	5317
20°	8589	10405	8589	4622
25°	8316	8938	8353	4132
30°	7865	7027	8014	3744
35°	7466	4859	7591	3424
40°	7007	3669	7088	3171
45°	6443	3015	6548	2896
50°	5952	2646	5964	2652
55°	5396	2254	5430	2386
60°	4801	1883	4867	2082
65°	4269	1532	4348	1779
70°	3737	1201	3833	1435
75°	3138	873	3261	1039
80°	2451	553	2627	618
85°	1610	277	1737	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.3
10°-20°	158.1	3.8
20°-30°	229.4	5.6
30°-40°	241.8	5.9
40°-50°	214.0	5.2
50°-60°	170.9	4.1
60°-70°	116.1	2.8
70°-80°	59.4	1.4
80°-90°	15.7	0.4
90°-100°	32.2	0.8
100°-110°	119.9	2.9
110°-120°	318.1	7.7
120°-130°	527.5	12.8
130°-140°	560.4	13.6
140°-150°	520.8	12.6
150°-160°	418.7	10.2
160°-170°	269.8	6.5
170°-180°	92.9	2.3
0°-30°	441.8	10.7
0°-40°	683.6	16.6
0°-60°	1068.5	25.9
0°-90°	1259.7	30.6
90°-120°	470.2	11.4
90°-150°	2078.9	50.5
90°-180°	2860.0	69.4
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	570	570	570	570	570	
5°	571	637	573	507	571	54
15°	536	783	543	376	536	151
25°	482	652	484	302	482	220
35°	393	355	400	250	393	246
45°	295	214	300	206	295	229
55°	202	150	204	159	202	181
65°	120	92	122	107	120	119
75°	56	46	58	54	56	60
85°	11	12	12	9	11	13
90°	1	19	1	19	1	3
95°	46	30	46	30	46	54
105°	215	54	215	54	215	229
115°	406	58	406	58	406	400
125°	574	604	574	604	574	512
135°	710	734	710	734	710	549
145°	824	837	824	837	824	515
155°	907	908	907	908	907	418
165°	956	954	956	954	956	270
175°	978	972	978	972	978	93
180°	976	976	976	976	976	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	573.3	574.6	576.8	577.2	581.6	585.1	589.0	589.0	590.3	589.9	586.4
5°	570.6	574.6	580.3	585.1	593.0	596.5	601.7	605.7	609.2	611.8	611.4
7.5°	566.2	573.3	581.6	590.8	601.3	607.4	614.9	621.9	626.7	631.1	634.2
10°	558.8	570.6	582.0	594.3	607.9	616.2	625.0	634.2	641.6	649.9	657.8
12.5°	548.7	565.8	579.8	596.0	612.7	621.9	635.9	642.9	657.4	678.4	684.1
15°	536.0	559.2	572.4	593.0	614.9	622.3	641.6	653.0	682.8	696.0	711.7
17.5°	524.2	550.0	567.6	591.2	612.7	627.2	646.0	669.2	694.2	713.1	730.6
20°	514.5	539.5	560.5	586.8	614.0	632.4	652.1	680.2	707.4	726.6	740.2
22.5°	492.6	524.6	549.1	578.5	611.4	636.8	655.6	686.3	715.7	727.5	739.4
25°	481.7	509.3	537.8	571.1	609.6	639.9	656.1	690.3	716.1	720.5	723.1
27.5°	461.5	492.6	525.9	564.0	609.2	634.6	655.2	686.3	706.9	703.9	696.0
30°	436.5	474.6	511.5	552.7	603.1	630.7	649.9	678.4	689.0	673.2	659.2
32.5°	418.1	454.0	494.8	542.6	596.0	622.3	641.2	663.5	665.7	637.2	613.6
35°	393.1	433.0	479.0	529.4	584.2	607.9	625.4	639.0	628.5	588.6	560.5
37.5°	370.8	410.2	459.3	510.6	568.0	591.2	605.2	607.4	581.6	546.5	505.3
40°	346.2	387.0	438.3	492.2	550.0	570.2	578.9	572.4	535.1	494.4	446.6
42.5°	321.7	362.0	417.2	472.5	527.2	544.3	547.8	529.9	484.3	436.5	381.3
45°	295.0	337.0	392.2	447.9	500.9	510.6	511.0	485.2	431.3	381.3	330.0
47.5°	273.0	312.0	366.8	422.5	467.2	473.8	471.1	441.3	382.6	326.5	281.8
50°	248.9	286.2	340.5	395.3	433.4	435.2	428.6	386.1	328.7	277.4	241.9
52.5°	223.1	260.8	310.7	363.3	397.5	394.9	382.2	336.6	282.7	240.2	213.0
55°	202.5	235.8	282.7	334.0	358.1	350.6	336.6	290.1	247.6	211.7	188.0
57.5°	179.7	209.1	255.1	299.8	313.8	306.8	292.8	249.4	209.9	182.8	167.0
60°	158.2	184.9	225.3	262.5	273.5	266.0	249.8	210.8	182.3	159.5	147.7
62.5°	138.5	161.7	195.5	229.7	234.0	226.6	212.6	181.0	156.5	138.5	129.7
65°	120.1	142.0	169.2	195.0	199.0	191.1	176.6	153.8	133.2	121.8	113.5
67.5°	102.1	119.6	143.8	162.6	164.8	157.3	145.5	127.1	114.4	102.1	96.0
70°	86.3	99.5	118.3	133.7	134.5	127.5	121.4	104.7	95.1	86.3	81.5
72.5°	71.0	80.2	94.7	106.1	106.5	102.1	96.4	85.9	77.6	71.4	66.6
75°	56.1	64.0	72.8	82.8	82.4	78.9	74.5	67.9	60.9	57.0	54.8
77.5°	43.0	47.8	54.8	61.4	61.4	59.6	57.0	52.2	47.8	43.8	41.6
80°	30.7	33.7	39.4	41.6	42.5	42.1	39.9	36.4	34.6	31.6	30.7
82.5°	19.7	21.9	24.5	26.7	28.0	27.2	26.7	25.0	22.4	21.5	20.6
85°	11.4	12.3	13.6	14.9	15.3	14.9	15.8	14.5	13.1	13.1	12.7
87.5°	4.8	5.3	6.1	6.1	6.6	6.6	6.1	6.6	6.6	6.1	5.7
90°	0.7	2.4	4.2	5.9	7.6	8.5	9.1	10.4	11.6	12.9	14.1
92.5°	17.6	17.0	16.4	15.7	15.1	14.8	15.0	15.5	16.0	16.4	16.9
95°	45.9	40.7	35.5	30.4	25.2	22.6	23.1	24.2	25.3	26.4	27.5
97.5°	82.6	69.7	56.9	44.0	31.1	24.7	26.0	28.5	31.0	33.5	36.0
100°	125.0	103.5	82.0	60.5	39.0	28.2	29.5	32.2	34.9	37.5	40.2
102.5°	171.6	171.3	170.9	170.6	170.3	170.1	155.8	127.3	98.8	70.2	41.7
105°	214.6	219.3	224.0	228.7	233.4	235.8	214.4	171.6	128.7	85.9	43.1
107.5°	264.7	268.6	272.6	276.5	280.4	282.4	256.0	203.1	150.2	97.4	44.5
110°	312.7	316.0	319.3	322.6	325.9	327.6	304.9	259.6	214.2	168.9	123.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	357.9	360.7	363.5	366.4	369.2	370.6	369.3	366.6	363.9	361.3	358.6
115°	405.9	408.6	411.2	413.9	416.6	417.9	419.9	423.8	427.7	431.7	435.6
117.5°	447.6	450.7	453.9	457.0	460.1	461.7	463.0	465.7	468.4	471.0	473.7
120°	494.2	496.6	498.9	501.3	503.6	504.8	506.2	509.0	511.9	514.7	517.5
122.5°	533.7	536.2	538.7	541.2	543.7	545.0	546.6	549.7	552.8	556.0	559.1
125°	574.0	576.0	578.0	580.1	582.1	583.1	584.6	587.6	590.5	593.5	596.5
127.5°	610.7	612.9	615.1	617.3	619.5	620.6	621.8	624.1	626.4	628.8	631.1
130°	645.3	647.8	650.3	652.8	655.3	656.6	657.5	659.2	660.9	662.6	664.3
132.5°	680.6	682.6	684.6	686.7	688.7	689.7	690.6	692.3	694.0	695.8	697.5
135°	710.2	712.7	715.2	717.7	720.2	721.5	722.2	723.6	725.1	726.5	727.9
137.5°	741.3	743.2	745.0	746.9	748.8	749.7	750.5	752.1	753.6	755.2	756.8
140°	771.6	772.9	774.1	775.4	776.7	777.3	778.2	779.9	781.6	783.3	785.0
142.5°	797.0	798.1	799.2	800.3	801.4	802.0	803.0	805.1	807.1	809.2	811.2
145°	823.9	823.7	823.6	823.4	823.3	823.2	824.5	827.2	829.9	832.5	835.2
147.5°	847.2	846.7	846.3	845.8	845.3	845.1	846.4	849.1	851.8	854.4	857.1
150°	869.8	868.7	867.6	866.5	865.4	864.8	866.1	868.6	871.1	873.6	876.1
152.5°	888.8	887.6	886.3	885.1	883.8	883.2	884.4	886.7	889.1	891.4	893.8
155°	907.2	905.8	904.4	902.9	901.5	900.8	901.7	903.6	905.5	907.4	909.3
157.5°	922.0	920.8	919.5	918.3	917.0	916.4	917.1	918.5	919.9	921.3	922.7
160°	934.7	933.8	932.8	931.9	931.0	930.5	931.0	931.9	932.8	933.8	934.7
162.5°	946.0	945.1	944.1	943.2	942.3	941.8	942.2	943.0	943.7	944.5	945.3
165°	955.9	955.0	954.0	953.1	952.2	951.7	951.9	952.4	952.9	953.3	953.8
167.5°	963.7	962.7	961.8	960.8	959.9	959.4	959.6	960.1	960.6	961.0	961.5
170°	970.0	969.1	968.1	967.2	966.3	965.8	966.0	966.3	966.6	966.9	967.2
172.5°	974.2	973.3	972.3	971.4	970.5	970.0	970.2	970.5	970.8	971.1	971.4
175°	977.8	976.7	975.6	974.5	973.4	972.8	973.0	973.3	973.6	973.9	974.2
177.5°	979.2	978.1	977.0	975.9	974.8	974.2	974.3	974.5	974.6	974.8	975.0
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	592.5	593.0	593.9	598.2	600.4	600.9	599.1	603.1	604.4	603.1	602.2
5°	620.6	623.2	628.5	634.2	633.7	634.2	636.8	639.4	640.3	636.8	638.1
7.5°	645.1	650.4	656.1	664.8	664.8	669.2	671.0	673.2	678.4	675.8	674.9
10°	673.2	680.2	690.7	704.7	705.2	709.6	713.9	720.9	723.1	721.4	722.3
12.5°	708.2	721.8	722.7	738.0	745.1	745.9	752.9	751.6	756.0	756.0	763.5
15°	723.6	744.6	756.4	771.3	775.7	770.5	776.2	782.3	782.7	782.7	782.3
17.5°	751.2	759.5	771.3	779.2	781.0	781.0	781.4	784.1	782.3	778.8	781.4
20°	756.9	760.4	764.8	763.9	764.8	760.4	756.0	751.6	752.1	749.9	756.4
22.5°	746.4	745.5	735.4	728.8	728.8	720.1	711.7	707.8	703.9	705.2	707.4
25°	720.1	706.5	694.2	684.6	682.4	668.4	657.0	653.5	646.9	652.1	653.0
27.5°	678.0	662.7	642.9	634.6	623.2	617.5	609.6	599.1	585.5	593.4	592.1
30°	632.9	610.1	593.9	573.7	555.7	554.4	539.5	522.0	515.0	515.0	518.9
32.5°	582.5	552.2	528.5	500.1	482.5	475.1	457.1	439.6	443.5	430.4	435.2
35°	523.7	483.8	454.0	426.4	413.3	404.5	381.3	371.6	361.1	355.0	366.4
37.5°	467.6	421.6	383.5	353.2	348.4	332.6	316.9	310.7	304.6	307.2	306.8
40°	399.3	358.5	324.3	300.7	292.3	284.9	274.4	266.9	263.0	265.2	265.6
42.5°	337.5	303.3	277.9	261.2	254.2	248.9	243.7	237.5	236.2	236.2	238.0
45°	289.7	261.6	244.6	231.0	227.0	223.1	219.1	216.5	215.6	213.9	215.2
47.5°	251.6	229.2	218.7	208.6	204.2	203.4	199.8	198.5	196.8	196.3	196.8
50°	219.6	205.5	195.9	190.2	187.1	185.8	184.1	181.4	180.6	182.8	181.9
52.5°	197.2	184.1	178.8	173.1	171.4	169.6	167.0	167.4	167.0	166.1	166.1
55°	174.9	166.5	161.3	156.9	156.5	154.7	152.5	151.6	151.2	150.3	151.6
57.5°	156.9	150.3	145.5	141.6	139.8	139.8	137.6	135.9	135.9	135.4	135.9
60°	138.9	132.4	129.3	125.3	124.0	123.6	122.3	121.4	120.1	120.1	120.1
62.5°	122.3	117.0	113.5	110.0	110.4	108.3	106.5	105.6	105.6	106.1	106.1
65°	106.5	103.0	98.6	95.5	94.7	94.2	93.4	92.9	91.6	92.5	92.5
67.5°	92.0	87.2	84.6	83.3	82.0	81.5	80.6	79.8	79.3	78.9	79.8
70°	77.6	73.6	71.4	70.6	69.2	68.8	68.4	67.1	67.5	67.9	68.4
72.5°	64.4	60.9	60.5	57.9	57.9	57.9	56.1	57.0	56.5	55.7	56.5
75°	50.8	49.1	48.2	46.9	47.3	46.9	46.5	45.1	45.1	45.6	46.0
77.5°	40.3	38.6	38.1	36.8	35.9	36.8	35.9	35.5	35.5	35.9	35.9
80°	29.8	28.9	27.6	27.6	27.6	27.2	27.2	27.2	26.7	26.3	26.7
82.5°	19.7	19.7	19.3	18.8	19.3	18.4	18.8	18.8	18.8	18.8	18.8
85°	12.7	12.3	12.3	11.8	11.8	11.8	12.3	11.4	11.4	11.8	11.8
87.5°	5.7	5.7	5.7	6.1	5.7	5.7	5.7	6.1	5.7	5.7	5.7
90°	14.9	15.7	16.4	17.2	17.6	17.8	18.1	18.4	18.8	19.1	18.8
92.5°	17.2	17.6	17.9	18.2	18.4	18.5	18.6	18.8	18.9	19.1	18.9
95°	28.3	29.1	29.9	30.7	31.1	31.0	30.9	30.7	30.6	30.4	30.6
97.5°	36.5	36.9	37.4	37.9	38.1	38.2	38.3	38.5	38.6	38.8	38.6
100°	41.5	42.7	44.0	45.3	45.9	46.1	46.4	46.7	47.0	47.3	47.0
102.5°	43.4	45.1	46.8	48.5	49.4	49.6	50.1	50.6	51.0	51.5	51.0
105°	44.8	46.5	48.2	49.9	50.8	51.1	51.8	52.4	53.1	53.7	53.1
107.5°	46.2	47.9	49.6	51.3	52.2	52.5	53.2	53.8	54.5	55.1	54.5
110°	107.8	92.1	76.4	60.7	52.9	53.2	53.9	54.5	55.2	55.8	55.2

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	291.0	223.4	155.8	88.2	54.4	54.6	55.1	55.6	56.0	56.5	56.0
115°	363.0	290.3	217.7	145.0	108.7	103.1	91.8	80.5	69.2	57.9	69.2
117.5°	451.3	428.9	406.4	384.0	372.8	352.2	311.1	270.0	228.9	187.8	228.9
120°	519.4	521.3	523.2	525.1	526.0	515.4	494.2	473.0	451.8	430.6	451.8
122.5°	560.1	561.0	562.0	562.9	563.4	563.5	563.6	563.8	563.9	564.1	563.9
125°	597.6	598.7	599.8	600.9	601.5	601.7	602.2	602.7	603.1	603.6	603.1
127.5°	632.7	634.3	635.8	637.4	638.2	638.3	638.4	638.6	638.7	638.9	638.7
130°	666.0	667.8	669.5	671.2	672.1	672.0	671.9	671.7	671.6	671.4	671.6
132.5°	698.9	700.3	701.8	703.2	703.9	703.8	703.7	703.5	703.4	703.2	703.4
135°	729.5	731.0	732.6	734.1	734.9	734.7	734.4	734.1	733.8	733.5	733.8
137.5°	758.4	760.0	761.5	763.1	763.9	763.7	763.2	762.7	762.2	761.7	762.2
140°	786.4	787.8	789.3	790.7	791.4	791.0	790.2	789.5	788.7	787.9	788.7
142.5°	812.4	813.7	814.9	816.2	816.8	816.4	815.6	814.9	814.1	813.3	814.1
145°	836.3	837.4	838.5	839.6	840.1	839.7	838.9	838.2	837.4	836.6	837.4
147.5°	857.9	858.7	859.4	860.2	860.6	860.3	859.7	859.0	858.4	857.8	858.4
150°	877.1	878.0	879.0	879.9	880.4	880.0	879.2	878.4	877.6	876.8	877.6
152.5°	894.7	895.7	896.6	897.5	898.0	897.5	896.4	895.3	894.2	893.1	894.2
155°	910.2	911.2	912.1	913.0	913.5	912.9	911.6	910.4	909.1	907.9	909.1
157.5°	923.8	924.9	926.0	927.1	927.7	927.1	925.8	924.5	923.3	922.0	923.3
160°	935.6	936.6	937.5	938.4	938.9	938.4	937.3	936.2	935.1	934.0	935.1
162.5°	946.4	947.5	948.6	949.7	950.2	949.5	948.1	946.7	945.3	943.9	945.3
165°	954.9	956.0	957.1	958.2	958.7	958.2	957.1	956.0	954.9	953.8	954.9
167.5°	962.6	963.7	964.8	965.9	966.5	965.8	964.4	962.9	961.5	960.1	961.5
170°	968.3	969.4	970.5	971.6	972.1	971.4	970.0	968.6	967.2	965.8	967.2
172.5°	972.5	973.6	974.7	975.8	976.4	975.7	974.3	972.8	971.4	970.0	971.4
175°	975.3	976.4	977.5	978.6	979.2	978.4	976.8	975.3	973.7	972.1	973.7
177.5°	976.1	977.2	978.3	979.4	979.9	979.2	977.8	976.3	974.9	973.5	974.9
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	604.4	601.3	598.7	599.1	601.3	599.5	595.2	589.5	587.3	584.6	587.3
5°	640.7	638.1	632.9	633.3	632.0	630.2	623.2	614.4	614.4	607.4	606.6
7.5°	676.7	672.7	669.2	668.4	663.5	660.0	653.9	641.6	636.8	628.5	623.7
10°	717.0	713.9	710.0	705.2	702.5	696.4	686.3	668.4	659.6	648.2	639.9
12.5°	757.8	757.3	748.6	738.9	738.5	728.8	721.8	697.7	685.9	670.5	650.8
15°	783.6	781.4	776.6	771.8	773.1	762.6	746.8	718.3	710.4	692.0	671.0
17.5°	783.2	783.2	781.9	781.0	779.7	776.6	767.8	749.0	736.3	713.1	693.3
20°	758.2	763.9	765.2	764.8	769.2	771.3	770.9	759.1	749.0	728.4	708.2
22.5°	708.2	721.4	727.1	730.6	739.8	744.6	756.0	751.6	749.0	733.7	716.6
25°	661.8	666.2	683.3	684.1	696.8	708.7	720.1	727.5	737.2	731.5	717.0
27.5°	601.7	611.8	624.1	633.3	635.9	660.0	678.9	692.9	714.8	716.6	711.7
30°	533.8	538.6	558.8	571.1	585.1	602.6	629.8	653.9	673.6	691.6	697.7
32.5°	451.0	470.7	482.5	497.4	509.7	540.8	574.1	605.2	628.0	658.3	671.4
35°	375.2	390.5	410.7	416.8	439.1	465.4	508.8	548.7	583.3	614.0	640.7
37.5°	312.5	324.8	346.2	355.9	369.0	402.8	439.1	488.7	530.3	568.0	601.3
40°	269.5	278.7	295.0	298.0	309.0	339.7	369.0	415.5	470.7	521.5	557.9
42.5°	240.2	244.6	255.5	259.5	266.5	287.1	313.4	357.2	408.5	461.1	512.3
45°	219.1	222.2	228.8	232.3	241.0	250.2	271.7	306.8	347.1	400.1	455.4
47.5°	200.3	204.2	206.9	209.1	213.9	224.0	238.0	263.8	302.4	351.1	404.5
50°	184.5	185.8	190.6	191.1	194.2	200.7	213.9	229.7	260.3	299.8	351.5
52.5°	168.7	170.0	173.1	176.2	177.5	182.8	191.5	204.7	227.5	258.6	304.6
55°	153.0	154.7	157.8	160.0	161.3	165.7	170.9	183.6	201.6	223.5	261.2
57.5°	137.2	141.1	142.0	143.3	145.5	150.3	155.1	162.6	176.6	196.8	224.4
60°	122.3	123.6	126.7	128.0	130.2	132.8	138.9	144.6	154.7	170.5	195.5
62.5°	106.9	110.0	111.3	112.6	114.4	117.5	121.4	127.5	136.3	149.0	168.7
65°	93.8	94.2	96.9	98.6	100.4	102.6	106.5	112.2	117.5	129.3	143.8
67.5°	81.1	82.0	82.8	84.6	86.8	89.0	92.5	95.5	102.1	110.0	121.4
70°	68.8	68.8	71.0	72.3	71.9	74.5	77.1	80.6	85.5	92.9	102.1
72.5°	57.9	57.4	59.2	59.6	60.5	62.2	64.0	67.5	70.1	75.8	82.8
75°	46.0	46.9	47.8	47.8	49.1	50.4	52.2	53.9	57.0	60.5	65.7
77.5°	36.4	36.4	37.3	37.7	39.0	38.6	40.3	42.1	44.3	47.3	51.3
80°	26.7	27.6	27.6	27.6	28.0	28.5	30.2	31.6	32.9	35.1	36.8
82.5°	18.8	18.8	19.7	19.7	19.7	20.6	20.6	21.0	21.9	23.2	24.5
85°	11.8	11.8	11.8	12.3	11.8	12.3	13.1	12.7	13.1	14.0	14.0
87.5°	5.7	5.7	5.7	5.7	5.7	6.1	5.7	6.1	6.6	6.6	6.6
90°	18.4	18.1	17.8	17.6	17.2	16.4	15.7	14.9	14.1	12.9	11.6
92.5°	18.8	18.6	18.5	18.4	18.2	17.9	17.6	17.2	16.9	16.4	16.0
95°	30.7	30.9	31.0	31.1	30.7	29.9	29.1	28.3	27.5	26.4	25.3
97.5°	38.5	38.3	38.2	38.1	37.9	37.4	36.9	36.5	36.0	33.5	31.0
100°	46.7	46.4	46.1	45.9	45.3	44.0	42.7	41.5	40.2	37.5	34.9
102.5°	50.6	50.1	49.6	49.4	48.5	46.8	45.1	43.4	41.7	70.2	98.8
105°	52.4	51.8	51.1	50.8	49.9	48.2	46.5	44.8	43.1	85.9	128.7
107.5°	53.8	53.2	52.5	52.2	51.3	49.6	47.9	46.2	44.5	97.4	150.2
110°	54.5	53.9	53.2	52.9	60.7	76.4	92.1	107.8	123.5	168.9	214.2

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	55.6	55.1	54.6	54.4	88.2	155.8	223.4	291.0	358.6	361.3	363.9
115°	80.5	91.8	103.1	108.7	145.0	217.7	290.3	363.0	435.6	431.7	427.7
117.5°	270.0	311.1	352.2	372.8	384.0	406.4	428.9	451.3	473.7	471.0	468.4
120°	473.0	494.2	515.4	526.0	525.1	523.2	521.3	519.4	517.5	514.7	511.9
122.5°	563.8	563.6	563.5	563.4	562.9	562.0	561.0	560.1	559.1	556.0	552.8
125°	602.7	602.2	601.7	601.5	600.9	599.8	598.7	597.6	596.5	593.5	590.5
127.5°	638.6	638.4	638.3	638.2	637.4	635.8	634.3	632.7	631.1	628.8	626.4
130°	671.7	671.9	672.0	672.1	671.2	669.5	667.8	666.0	664.3	662.6	660.9
132.5°	703.5	703.7	703.8	703.9	703.2	701.8	700.3	698.9	697.5	695.8	694.0
135°	734.1	734.4	734.7	734.9	734.1	732.6	731.0	729.5	727.9	726.5	725.1
137.5°	762.7	763.2	763.7	763.9	763.1	761.5	760.0	758.4	756.8	755.2	753.6
140°	789.5	790.2	791.0	791.4	790.7	789.3	787.8	786.4	785.0	783.3	781.6
142.5°	814.9	815.6	816.4	816.8	816.2	814.9	813.7	812.4	811.2	809.2	807.1
145°	838.2	838.9	839.7	840.1	839.6	838.5	837.4	836.3	835.2	832.5	829.9
147.5°	859.0	859.7	860.3	860.6	860.2	859.4	858.7	857.9	857.1	854.4	851.8
150°	878.4	879.2	880.0	880.4	879.9	879.0	878.0	877.1	876.1	873.6	871.1
152.5°	895.3	896.4	897.5	898.0	897.5	896.6	895.7	894.7	893.8	891.4	889.1
155°	910.4	911.6	912.9	913.5	913.0	912.1	911.2	910.2	909.3	907.4	905.5
157.5°	924.5	925.8	927.1	927.7	927.1	926.0	924.9	923.8	922.7	921.3	919.9
160°	936.2	937.3	938.4	938.9	938.4	937.5	936.6	935.6	934.7	933.8	932.8
162.5°	946.7	948.1	949.5	950.2	949.7	948.6	947.5	946.4	945.3	944.5	943.7
165°	956.0	957.1	958.2	958.7	958.2	957.1	956.0	954.9	953.8	953.3	952.9
167.5°	962.9	964.4	965.8	966.5	965.9	964.8	963.7	962.6	961.5	961.0	960.6
170°	968.6	970.0	971.4	972.1	971.6	970.5	969.4	968.3	967.2	966.9	966.6
172.5°	972.8	974.3	975.7	976.4	975.8	974.7	973.6	972.5	971.4	971.1	970.8
175°	975.3	976.8	978.4	979.2	978.6	977.5	976.4	975.3	974.2	973.9	973.6
177.5°	976.3	977.8	979.2	979.9	979.4	978.3	977.2	976.1	975.0	974.8	974.6
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

TEST NUMBER: P1029396

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	585.1	582.9	581.6	582.5	579.8	573.3	573.3	575.4	572.8	570.2	566.2
5°	601.3	596.9	594.3	593.9	587.7	577.2	575.0	572.8	567.1	561.0	554.4
7.5°	617.1	609.2	604.8	601.7	593.0	579.4	573.7	568.9	559.7	550.5	542.1
10°	630.2	618.8	613.6	608.8	597.4	580.3	571.1	562.3	550.5	538.6	528.1
12.5°	640.7	627.6	621.0	614.0	600.0	577.6	566.2	552.2	540.4	524.6	514.1
15°	658.3	631.1	625.0	618.4	603.9	573.3	559.2	543.4	527.2	506.2	494.8
17.5°	672.3	635.9	635.5	621.5	602.6	571.5	550.0	529.4	511.9	490.9	472.9
20°	680.6	643.4	636.4	621.9	598.2	559.7	537.3	514.5	495.7	470.3	452.3
22.5°	687.6	653.9	635.5	618.0	589.0	555.7	522.9	501.4	475.5	447.9	430.8
25°	690.3	656.1	636.8	616.6	582.5	544.3	507.1	483.8	454.9	429.9	406.7
27.5°	690.7	655.6	632.0	610.9	573.3	529.4	491.3	466.8	434.8	405.8	382.6
30°	686.3	650.8	629.4	606.6	564.5	515.8	472.0	444.8	410.7	381.7	357.6
32.5°	673.2	641.2	623.7	598.7	553.1	497.0	453.6	423.4	387.4	358.9	335.7
35°	651.3	629.4	610.1	586.8	538.2	479.5	435.2	399.7	363.3	336.2	314.2
37.5°	624.1	612.3	594.3	571.5	521.1	463.7	414.6	375.2	338.8	312.5	291.0
40°	587.3	590.3	572.8	552.2	500.9	442.2	387.9	350.2	316.0	291.4	270.4
42.5°	547.4	560.1	550.0	530.3	478.6	418.5	368.1	326.5	293.2	267.8	250.2
45°	504.4	526.4	520.2	505.8	455.4	393.6	340.1	299.8	270.4	245.9	230.5
47.5°	457.5	488.7	488.7	478.1	429.5	368.6	316.0	274.8	245.9	228.3	213.4
50°	409.8	444.8	450.5	443.5	400.6	340.1	286.6	249.4	224.4	207.3	196.3
52.5°	359.8	400.6	411.1	407.6	369.9	312.9	262.5	226.1	203.4	188.5	178.8
55°	312.0	359.4	370.8	372.1	337.0	283.1	235.8	203.8	181.9	171.8	163.5
57.5°	266.9	312.5	325.2	327.4	303.7	255.9	210.8	182.8	163.0	154.7	148.1
60°	228.3	266.5	283.1	287.9	267.3	224.4	187.6	160.4	145.5	137.6	131.5
62.5°	196.8	227.5	245.0	246.3	237.1	196.8	163.5	140.7	128.0	121.0	117.9
65°	166.1	193.7	204.2	209.5	202.0	170.5	141.1	122.3	112.2	106.1	103.0
67.5°	141.6	159.1	167.9	174.9	167.4	143.8	120.1	104.7	97.3	91.2	89.4
70°	116.1	130.6	137.2	144.2	137.6	119.6	102.6	88.5	82.0	77.1	74.9
72.5°	92.9	104.3	110.4	114.8	110.9	96.0	82.0	72.3	67.5	64.0	62.7
75°	73.6	81.5	85.0	88.1	86.3	74.9	66.2	58.3	53.9	50.8	50.0
77.5°	56.1	61.8	65.7	66.6	64.4	57.0	49.5	44.7	41.2	39.4	38.6
80°	39.9	43.4	45.6	46.9	44.7	41.6	36.4	32.9	29.8	27.6	27.2
82.5°	26.7	28.5	30.2	29.8	28.9	26.3	23.2	21.5	20.2	18.4	18.4
85°	15.3	15.8	16.7	17.1	16.7	14.9	13.1	12.3	11.4	10.1	10.1
87.5°	6.6	7.0	7.0	7.5	6.6	6.6	5.7	4.8	4.8	4.4	3.9
90°	10.4	9.1	8.5	7.6	5.9	4.2	2.4	0.7	2.4	4.2	5.9
92.5°	15.5	15.0	14.8	15.1	15.7	16.4	17.0	17.6	17.0	16.4	15.7
95°	24.2	23.1	22.6	25.2	30.4	35.5	40.7	45.9	40.7	35.5	30.4
97.5°	28.5	26.0	24.7	31.1	44.0	56.9	69.7	82.6	69.7	56.9	44.0
100°	32.2	29.5	28.2	39.0	60.5	82.0	103.5	125.0	103.5	82.0	60.5
102.5°	127.3	155.8	170.1	170.3	170.6	170.9	171.3	171.6	171.3	170.9	170.6
105°	171.6	214.4	235.8	233.4	228.7	224.0	219.3	214.6	219.3	224.0	228.7
107.5°	203.1	256.0	282.4	280.4	276.5	272.6	268.6	264.7	268.6	272.6	276.5
110°	259.6	304.9	327.6	325.9	322.6	319.3	316.0	312.7	316.0	319.3	322.6

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	366.6	369.3	370.6	369.2	366.4	363.5	360.7	357.9	360.7	363.5	366.4
115°	423.8	419.9	417.9	416.6	413.9	411.2	408.6	405.9	408.6	411.2	413.9
117.5°	465.7	463.0	461.7	460.1	457.0	453.9	450.7	447.6	450.7	453.9	457.0
120°	509.0	506.2	504.8	503.6	501.3	498.9	496.6	494.2	496.6	498.9	501.3
122.5°	549.7	546.6	545.0	543.7	541.2	538.7	536.2	533.7	536.2	538.7	541.2
125°	587.6	584.6	583.1	582.1	580.1	578.0	576.0	574.0	576.0	578.0	580.1
127.5°	624.1	621.8	620.6	619.5	617.3	615.1	612.9	610.7	612.9	615.1	617.3
130°	659.2	657.5	656.6	655.3	652.8	650.3	647.8	645.3	647.8	650.3	652.8
132.5°	692.3	690.6	689.7	688.7	686.7	684.6	682.6	680.6	682.6	684.6	686.7
135°	723.6	722.2	721.5	720.2	717.7	715.2	712.7	710.2	712.7	715.2	717.7
137.5°	752.1	750.5	749.7	748.8	746.9	745.0	743.2	741.3	743.2	745.0	746.9
140°	779.9	778.2	777.3	776.7	775.4	774.1	772.9	771.6	772.9	774.1	775.4
142.5°	805.1	803.0	802.0	801.4	800.3	799.2	798.1	797.0	798.1	799.2	800.3
145°	827.2	824.5	823.2	823.3	823.4	823.6	823.7	823.9	823.7	823.6	823.4
147.5°	849.1	846.4	845.1	845.3	845.8	846.3	846.7	847.2	846.7	846.3	845.8
150°	868.6	866.1	864.8	865.4	866.5	867.6	868.7	869.8	868.7	867.6	866.5
152.5°	886.7	884.4	883.2	883.8	885.1	886.3	887.6	888.8	887.6	886.3	885.1
155°	903.6	901.7	900.8	901.5	902.9	904.4	905.8	907.2	905.8	904.4	902.9
157.5°	918.5	917.1	916.4	917.0	918.3	919.5	920.8	922.0	920.8	919.5	918.3
160°	931.9	931.0	930.5	931.0	931.9	932.8	933.8	934.7	933.8	932.8	931.9
162.5°	943.0	942.2	941.8	942.3	943.2	944.1	945.1	946.0	945.1	944.1	943.2
165°	952.4	951.9	951.7	952.2	953.1	954.0	955.0	955.9	955.0	954.0	953.1
167.5°	960.1	959.6	959.4	959.9	960.8	961.8	962.7	963.7	962.7	961.8	960.8
170°	966.3	966.0	965.8	966.3	967.2	968.1	969.1	970.0	969.1	968.1	967.2
172.5°	970.5	970.2	970.0	970.5	971.4	972.3	973.3	974.2	973.3	972.3	971.4
175°	973.3	973.0	972.8	973.4	974.5	975.6	976.7	977.8	976.7	975.6	974.5
177.5°	974.5	974.3	974.2	974.8	975.9	977.0	978.1	979.2	978.1	977.0	975.9
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	564.0	566.2	565.8	561.4	556.6	552.7	545.2	546.1	543.4	543.9	546.5
5°	550.0	550.0	548.3	542.1	534.2	529.9	521.5	519.3	514.1	513.6	513.2
7.5°	535.1	532.9	530.7	522.0	512.3	505.3	493.9	491.3	486.0	482.5	480.8
10°	517.6	514.5	510.1	500.1	488.2	479.5	467.6	464.1	454.0	449.7	447.0
12.5°	498.3	496.6	489.5	481.2	461.9	452.3	435.2	438.7	428.6	419.9	418.5
15°	479.0	472.5	468.5	454.9	431.7	427.3	413.7	406.7	397.5	390.5	390.5
17.5°	460.2	450.1	441.3	426.9	409.8	397.5	387.4	383.9	372.5	365.5	364.2
20°	435.2	423.8	421.6	401.0	389.2	375.6	366.0	357.2	348.9	345.8	343.6
22.5°	411.5	398.4	394.9	377.3	365.5	351.9	342.3	336.2	330.0	327.8	323.9
25°	386.1	378.2	373.0	354.1	341.0	328.3	321.7	317.3	311.6	311.2	308.5
27.5°	361.6	354.1	348.9	330.9	321.2	309.4	304.2	299.3	296.3	295.0	293.6
30°	340.5	332.2	326.1	312.9	301.1	291.4	287.1	284.0	282.2	280.1	279.6
32.5°	317.3	312.5	304.2	294.1	284.9	275.7	273.0	270.8	268.2	267.3	266.9
35°	297.6	291.0	285.7	274.4	270.4	262.5	259.5	257.7	254.2	253.3	252.4
37.5°	278.3	272.2	266.5	259.5	252.0	247.6	245.9	243.2	241.5	241.9	241.0
40°	259.0	254.2	249.8	242.4	238.0	235.8	232.3	229.7	228.8	229.2	228.8
42.5°	240.2	235.8	233.2	227.5	223.1	220.9	218.7	216.1	217.4	217.4	218.7
45°	223.1	219.1	217.4	213.0	210.4	206.9	204.7	204.2	206.0	205.5	205.5
47.5°	205.5	204.2	202.0	198.1	194.6	192.4	192.0	192.0	193.7	194.6	194.2
50°	192.0	189.3	186.7	183.6	181.0	180.1	178.8	179.7	181.4	181.4	182.3
52.5°	174.9	173.1	172.2	169.6	167.9	167.9	167.9	168.3	169.6	170.9	170.5
55°	160.0	158.7	157.8	156.5	154.3	154.7	154.3	155.1	156.5	157.8	158.7
57.5°	144.2	143.8	142.9	140.7	140.7	140.2	141.6	142.0	144.2	145.1	146.4
60°	130.2	128.9	128.9	127.1	127.1	127.1	128.4	129.7	131.5	131.9	132.8
62.5°	115.3	115.3	114.8	113.5	113.5	114.8	115.3	117.0	117.9	117.9	119.2
65°	101.2	100.8	100.4	100.8	101.2	101.2	102.6	103.4	104.3	104.7	105.2
67.5°	87.2	86.8	87.7	87.2	88.1	89.8	89.4	90.7	92.0	92.0	92.5
70°	74.1	74.9	74.5	75.4	74.9	75.8	77.1	77.6	77.6	78.0	79.3
72.5°	61.8	61.8	61.8	61.4	61.8	62.7	63.5	64.0	64.9	65.3	66.6
75°	50.0	50.0	49.1	50.0	50.0	50.8	51.7	51.7	51.7	52.6	53.9
77.5°	37.7	38.1	37.7	38.6	38.6	39.0	39.9	39.4	40.3	40.8	41.2
80°	27.6	27.2	27.2	27.2	27.6	27.6	28.5	28.9	28.9	30.2	29.4
82.5°	17.5	18.0	17.5	18.0	18.0	18.4	18.0	18.4	18.8	19.7	19.3
85°	10.1	9.6	9.6	10.1	9.6	9.6	10.1	9.6	10.1	9.6	10.1
87.5°	3.9	3.5	3.5	3.5	3.5	3.1	3.1	2.6	2.6	2.6	2.2
90°	7.6	8.5	9.1	10.4	11.6	12.9	14.1	14.9	15.7	16.4	17.2
92.5°	15.1	14.8	15.0	15.5	16.0	16.4	16.9	17.2	17.6	17.9	18.2
95°	25.2	22.6	23.1	24.2	25.3	26.4	27.5	28.3	29.1	29.9	30.7
97.5°	31.1	24.7	26.0	28.5	31.0	33.5	36.0	36.5	36.9	37.4	37.9
100°	39.0	28.2	29.5	32.2	34.9	37.5	40.2	41.5	42.7	44.0	45.3
102.5°	170.3	170.1	155.8	127.3	98.8	70.2	41.7	43.4	45.1	46.8	48.5
105°	233.4	235.8	214.4	171.6	128.7	85.9	43.1	44.8	46.5	48.2	49.9
107.5°	280.4	282.4	256.0	203.1	150.2	97.4	44.5	46.2	47.9	49.6	51.3
110°	325.9	327.6	304.9	259.6	214.2	168.9	123.5	107.8	92.1	76.4	60.7

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	369.2	370.6	369.3	366.6	363.9	361.3	358.6	291.0	223.4	155.8	88.2
115°	416.6	417.9	419.9	423.8	427.7	431.7	435.6	363.0	290.3	217.7	145.0
117.5°	460.1	461.7	463.0	465.7	468.4	471.0	473.7	451.3	428.9	406.4	384.0
120°	503.6	504.8	506.2	509.0	511.9	514.7	517.5	519.4	521.3	523.2	525.1
122.5°	543.7	545.0	546.6	549.7	552.8	556.0	559.1	560.1	561.0	562.0	562.9
125°	582.1	583.1	584.6	587.6	590.5	593.5	596.5	597.6	598.7	599.8	600.9
127.5°	619.5	620.6	621.8	624.1	626.4	628.8	631.1	632.7	634.3	635.8	637.4
130°	655.3	656.6	657.5	659.2	660.9	662.6	664.3	666.0	667.8	669.5	671.2
132.5°	688.7	689.7	690.6	692.3	694.0	695.8	697.5	698.9	700.3	701.8	703.2
135°	720.2	721.5	722.2	723.6	725.1	726.5	727.9	729.5	731.0	732.6	734.1
137.5°	748.8	749.7	750.5	752.1	753.6	755.2	756.8	758.4	760.0	761.5	763.1
140°	776.7	777.3	778.2	779.9	781.6	783.3	785.0	786.4	787.8	789.3	790.7
142.5°	801.4	802.0	803.0	805.1	807.1	809.2	811.2	812.4	813.7	814.9	816.2
145°	823.3	823.2	824.5	827.2	829.9	832.5	835.2	836.3	837.4	838.5	839.6
147.5°	845.3	845.1	846.4	849.1	851.8	854.4	857.1	857.9	858.7	859.4	860.2
150°	865.4	864.8	866.1	868.6	871.1	873.6	876.1	877.1	878.0	879.0	879.9
152.5°	883.8	883.2	884.4	886.7	889.1	891.4	893.8	894.7	895.7	896.6	897.5
155°	901.5	900.8	901.7	903.6	905.5	907.4	909.3	910.2	911.2	912.1	913.0
157.5°	917.0	916.4	917.1	918.5	919.9	921.3	922.7	923.8	924.9	926.0	927.1
160°	931.0	930.5	931.0	931.9	932.8	933.8	934.7	935.6	936.6	937.5	938.4
162.5°	942.3	941.8	942.2	943.0	943.7	944.5	945.3	946.4	947.5	948.6	949.7
165°	952.2	951.7	951.9	952.4	952.9	953.3	953.8	954.9	956.0	957.1	958.2
167.5°	959.9	959.4	959.6	960.1	960.6	961.0	961.5	962.6	963.7	964.8	965.9
170°	966.3	965.8	966.0	966.3	966.6	966.9	967.2	968.3	969.4	970.5	971.6
172.5°	970.5	970.0	970.2	970.5	970.8	971.1	971.4	972.5	973.6	974.7	975.8
175°	973.4	972.8	973.0	973.3	973.6	973.9	974.2	975.3	976.4	977.5	978.6
177.5°	974.8	974.2	974.3	974.5	974.6	974.8	975.0	976.1	977.2	978.3	979.4
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	543.4	544.8	541.7	540.8	541.7	538.6	539.5	540.4	540.4	541.7	542.6
5°	511.9	510.1	507.1	506.2	505.3	506.6	505.8	507.1	507.5	510.6	511.0
7.5°	480.8	478.1	475.5	472.9	472.0	469.8	472.0	472.0	475.1	474.2	476.4
10°	444.0	443.5	440.0	438.7	437.0	433.4	438.3	437.0	439.1	443.1	444.0
12.5°	416.8	412.0	414.2	408.0	410.2	406.7	407.1	407.1	410.7	411.1	410.2
15°	390.9	387.0	381.3	378.7	377.3	375.6	381.3	381.7	379.1	385.2	383.0
17.5°	364.6	364.6	359.4	358.1	354.6	356.3	355.4	355.9	355.0	359.4	361.6
20°	341.8	339.7	337.9	338.3	334.0	333.1	332.2	333.1	336.2	339.2	340.1
22.5°	323.4	322.1	317.7	318.6	315.1	316.4	315.6	317.7	318.2	318.2	321.2
25°	305.9	304.2	304.6	302.8	301.5	301.5	300.2	301.5	303.3	304.2	304.6
27.5°	292.8	291.4	289.3	287.9	288.8	286.6	288.4	289.7	289.7	288.8	289.7
30°	277.0	277.9	277.9	273.5	275.2	274.4	275.7	276.5	276.5	277.0	276.1
32.5°	266.5	263.8	263.4	263.0	263.0	261.2	261.2	262.5	263.0	263.4	264.7
35°	252.4	252.4	250.2	251.6	249.8	250.2	249.8	250.2	251.1	249.8	251.1
37.5°	239.7	240.2	239.3	240.2	240.6	239.7	238.9	240.6	239.7	239.7	238.9
40°	228.8	228.3	228.8	228.8	228.8	229.2	228.3	228.3	228.3	227.5	226.6
42.5°	219.6	216.9	217.8	218.3	216.9	216.9	217.4	216.9	218.3	215.6	215.6
45°	206.4	205.5	206.0	206.0	206.9	205.5	206.4	206.9	205.5	205.1	204.2
47.5°	194.6	195.5	194.6	195.5	195.5	196.3	194.6	195.0	195.5	193.7	192.4
50°	182.8	182.8	184.1	183.6	184.1	183.2	183.2	182.8	183.2	182.3	181.0
52.5°	171.8	170.5	172.7	172.2	171.8	171.4	170.9	171.4	170.5	169.6	169.6
55°	158.2	158.2	159.5	160.0	160.0	159.1	158.2	158.7	158.2	157.8	157.3
57.5°	147.3	145.5	146.4	146.8	146.8	145.5	146.4	145.5	145.5	145.9	144.6
60°	133.2	133.2	132.4	133.7	133.7	132.8	132.8	133.2	132.4	131.9	131.5
62.5°	118.3	118.8	120.1	120.5	121.0	120.1	119.2	119.6	119.6	118.3	118.8
65°	105.6	106.5	108.3	107.8	106.9	107.4	106.5	106.9	105.6	106.1	104.7
67.5°	93.4	92.9	93.4	93.4	94.2	93.8	92.9	92.9	92.5	93.8	92.5
70°	80.2	80.2	80.2	80.2	80.6	81.1	80.2	79.3	79.8	78.9	78.4
72.5°	66.6	67.1	66.6	67.5	66.2	67.1	67.1	66.6	66.2	66.2	66.2
75°	53.9	54.8	53.5	53.9	53.5	54.3	53.9	53.9	53.0	52.6	53.0
77.5°	41.2	41.6	40.8	41.2	40.8	41.2	41.2	40.8	40.8	40.8	40.8
80°	29.4	29.8	29.4	28.9	28.5	29.4	28.5	28.9	29.4	28.9	29.8
82.5°	18.8	18.8	18.4	18.8	18.0	18.0	18.4	18.4	18.0	18.8	18.0
85°	9.2	9.2	10.1	9.2	8.8	8.8	8.8	9.2	8.8	9.6	9.2
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.6	1.8
90°	17.6	17.8	18.1	18.4	18.8	19.1	18.8	18.4	18.1	17.8	17.6
92.5°	18.4	18.5	18.6	18.8	18.9	19.1	18.9	18.8	18.6	18.5	18.4
95°	31.1	31.0	30.9	30.7	30.6	30.4	30.6	30.7	30.9	31.0	31.1
97.5°	38.1	38.2	38.3	38.5	38.6	38.8	38.6	38.5	38.3	38.2	38.1
100°	45.9	46.1	46.4	46.7	47.0	47.3	47.0	46.7	46.4	46.1	45.9
102.5°	49.4	49.6	50.1	50.6	51.0	51.5	51.0	50.6	50.1	49.6	49.4
105°	50.8	51.1	51.8	52.4	53.1	53.7	53.1	52.4	51.8	51.1	50.8
107.5°	52.2	52.5	53.2	53.8	54.5	55.1	54.5	53.8	53.2	52.5	52.2
110°	52.9	53.2	53.9	54.5	55.2	55.8	55.2	54.5	53.9	53.2	52.9

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	54.4	54.6	55.1	55.6	56.0	56.5	56.0	55.6	55.1	54.6	54.4
115°	108.7	103.1	91.8	80.5	69.2	57.9	69.2	80.5	91.8	103.1	108.7
117.5°	372.8	352.2	311.1	270.0	228.9	187.8	228.9	270.0	311.1	352.2	372.8
120°	526.0	515.4	494.2	473.0	451.8	430.6	451.8	473.0	494.2	515.4	526.0
122.5°	563.4	563.5	563.6	563.8	563.9	564.1	563.9	563.8	563.6	563.5	563.4
125°	601.5	601.7	602.2	602.7	603.1	603.6	603.1	602.7	602.2	601.7	601.5
127.5°	638.2	638.3	638.4	638.6	638.7	638.9	638.7	638.6	638.4	638.3	638.2
130°	672.1	672.0	671.9	671.7	671.6	671.4	671.6	671.7	671.9	672.0	672.1
132.5°	703.9	703.8	703.7	703.5	703.4	703.2	703.4	703.5	703.7	703.8	703.9
135°	734.9	734.7	734.4	734.1	733.8	733.5	733.8	734.1	734.4	734.7	734.9
137.5°	763.9	763.7	763.2	762.7	762.2	761.7	762.2	762.7	763.2	763.7	763.9
140°	791.4	791.0	790.2	789.5	788.7	787.9	788.7	789.5	790.2	791.0	791.4
142.5°	816.8	816.4	815.6	814.9	814.1	813.3	814.1	814.9	815.6	816.4	816.8
145°	840.1	839.7	838.9	838.2	837.4	836.6	837.4	838.2	838.9	839.7	840.1
147.5°	860.6	860.3	859.7	859.0	858.4	857.8	858.4	859.0	859.7	860.3	860.6
150°	880.4	880.0	879.2	878.4	877.6	876.8	877.6	878.4	879.2	880.0	880.4
152.5°	898.0	897.5	896.4	895.3	894.2	893.1	894.2	895.3	896.4	897.5	898.0
155°	913.5	912.9	911.6	910.4	909.1	907.9	909.1	910.4	911.6	912.9	913.5
157.5°	927.7	927.1	925.8	924.5	923.3	922.0	923.3	924.5	925.8	927.1	927.7
160°	938.9	938.4	937.3	936.2	935.1	934.0	935.1	936.2	937.3	938.4	938.9
162.5°	950.2	949.5	948.1	946.7	945.3	943.9	945.3	946.7	948.1	949.5	950.2
165°	958.7	958.2	957.1	956.0	954.9	953.8	954.9	956.0	957.1	958.2	958.7
167.5°	966.5	965.8	964.4	962.9	961.5	960.1	961.5	962.9	964.4	965.8	966.5
170°	972.1	971.4	970.0	968.6	967.2	965.8	967.2	968.6	970.0	971.4	972.1
172.5°	976.4	975.7	974.3	972.8	971.4	970.0	971.4	972.8	974.3	975.7	976.4
175°	979.2	978.4	976.8	975.3	973.7	972.1	973.7	975.3	976.8	978.4	979.2
177.5°	979.9	979.2	977.8	976.3	974.9	973.5	974.9	976.3	977.8	979.2	979.9
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

TEST NUMBER: P1029396

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	541.3	544.8	543.4	538.6	544.3	544.3	548.3	548.3	553.1	554.8	557.5
5°	510.6	513.2	515.4	513.2	517.2	523.3	526.8	529.9	536.4	539.1	543.0
7.5°	477.7	482.5	484.7	484.7	491.3	498.3	505.3	509.7	518.9	522.4	526.4
10°	445.7	451.4	455.8	455.4	466.3	470.7	479.5	489.5	498.7	504.0	509.7
12.5°	412.0	415.0	421.2	429.9	432.6	440.5	450.5	463.2	479.9	484.7	493.0
15°	383.9	392.2	397.1	401.0	407.1	414.6	425.6	437.8	454.5	465.0	473.8
17.5°	360.3	371.2	374.3	373.4	381.3	392.7	405.4	414.6	429.5	442.2	450.5
20°	341.0	345.4	350.6	352.8	358.9	371.2	383.5	394.0	406.3	416.4	426.0
22.5°	321.7	325.2	329.6	333.5	338.3	345.4	357.2	370.3	382.2	391.8	402.8
25°	305.9	308.1	312.0	315.1	320.4	325.2	333.5	348.0	362.0	367.7	377.3
27.5°	290.6	292.3	295.0	298.5	301.1	305.9	313.4	325.2	339.7	345.4	358.5
30°	277.0	278.3	280.9	282.7	284.0	289.7	295.4	304.6	315.6	323.4	333.1
32.5°	264.3	265.6	268.2	268.7	270.4	273.5	278.7	287.1	296.7	303.3	311.6
35°	250.2	251.1	253.8	254.6	255.9	258.6	262.5	268.7	277.4	282.2	289.7
37.5°	239.3	238.9	240.6	241.9	243.7	245.0	246.3	252.4	259.0	263.4	269.1
40°	227.5	226.6	227.0	228.8	229.7	231.4	231.4	237.5	241.9	245.4	249.8
42.5°	215.6	215.2	214.3	215.2	216.1	216.5	216.9	221.3	225.7	228.8	233.6
45°	203.8	203.4	202.5	202.9	202.9	203.8	205.1	206.9	209.9	212.6	215.2
47.5°	192.8	192.0	190.6	190.2	191.1	191.1	191.1	192.8	195.9	196.8	199.4
50°	181.4	180.1	178.4	177.5	177.5	177.1	177.9	178.4	181.0	181.9	184.1
52.5°	169.2	168.3	166.5	164.8	165.2	164.3	164.8	165.2	166.1	167.4	168.7
55°	156.9	155.1	153.8	153.4	152.1	152.1	150.8	152.5	152.1	152.5	154.3
57.5°	145.1	143.3	141.1	140.2	138.9	138.5	137.6	137.2	137.6	138.9	140.2
60°	131.0	130.2	128.9	127.5	126.7	125.3	124.5	124.5	124.0	124.0	124.5
62.5°	117.5	117.0	115.3	114.8	113.9	113.1	111.8	110.9	110.9	111.8	112.2
65°	104.3	103.9	102.6	102.1	99.9	99.0	98.6	98.2	97.3	97.3	97.3
67.5°	92.0	90.7	90.7	88.5	86.8	85.9	85.0	84.6	84.6	84.6	85.0
70°	78.4	78.4	77.1	75.8	74.1	74.5	73.2	71.9	71.9	71.0	71.4
72.5°	65.3	64.9	63.5	63.1	61.8	60.5	59.6	60.5	59.2	58.7	59.2
75°	52.6	52.2	51.3	50.4	50.8	49.5	48.2	47.8	47.8	46.9	46.9
77.5°	40.3	41.2	39.4	39.0	38.1	37.3	36.8	36.4	36.4	36.4	37.3
80°	28.0	28.5	28.5	27.6	28.0	26.7	26.7	26.7	25.4	25.9	26.3
82.5°	18.0	18.0	17.5	18.0	17.5	17.5	17.1	17.1	16.7	16.7	17.1
85°	10.1	9.6	9.2	10.1	9.6	9.6	9.2	9.2	9.2	9.2	9.2
87.5°	2.2	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.5	3.5	3.5
90°	17.2	16.4	15.7	14.9	14.1	12.9	11.6	10.4	9.1	8.5	7.6
92.5°	18.2	17.9	17.6	17.2	16.9	16.4	16.0	15.5	15.0	14.8	15.1
95°	30.7	29.9	29.1	28.3	27.5	26.4	25.3	24.2	23.1	22.6	25.2
97.5°	37.9	37.4	36.9	36.5	36.0	33.5	31.0	28.5	26.0	24.7	31.1
100°	45.3	44.0	42.7	41.5	40.2	37.5	34.9	32.2	29.5	28.2	39.0
102.5°	48.5	46.8	45.1	43.4	41.7	70.2	98.8	127.3	155.8	170.1	170.3
105°	49.9	48.2	46.5	44.8	43.1	85.9	128.7	171.6	214.4	235.8	233.4
107.5°	51.3	49.6	47.9	46.2	44.5	97.4	150.2	203.1	256.0	282.4	280.4
110°	60.7	76.4	92.1	107.8	123.5	168.9	214.2	259.6	304.9	327.6	325.9

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	88.2	155.8	223.4	291.0	358.6	361.3	363.9	366.6	369.3	370.6	369.2
115°	145.0	217.7	290.3	363.0	435.6	431.7	427.7	423.8	419.9	417.9	416.6
117.5°	384.0	406.4	428.9	451.3	473.7	471.0	468.4	465.7	463.0	461.7	460.1
120°	525.1	523.2	521.3	519.4	517.5	514.7	511.9	509.0	506.2	504.8	503.6
122.5°	562.9	562.0	561.0	560.1	559.1	556.0	552.8	549.7	546.6	545.0	543.7
125°	600.9	599.8	598.7	597.6	596.5	593.5	590.5	587.6	584.6	583.1	582.1
127.5°	637.4	635.8	634.3	632.7	631.1	628.8	626.4	624.1	621.8	620.6	619.5
130°	671.2	669.5	667.8	666.0	664.3	662.6	660.9	659.2	657.5	656.6	655.3
132.5°	703.2	701.8	700.3	698.9	697.5	695.8	694.0	692.3	690.6	689.7	688.7
135°	734.1	732.6	731.0	729.5	727.9	726.5	725.1	723.6	722.2	721.5	720.2
137.5°	763.1	761.5	760.0	758.4	756.8	755.2	753.6	752.1	750.5	749.7	748.8
140°	790.7	789.3	787.8	786.4	785.0	783.3	781.6	779.9	778.2	777.3	776.7
142.5°	816.2	814.9	813.7	812.4	811.2	809.2	807.1	805.1	803.0	802.0	801.4
145°	839.6	838.5	837.4	836.3	835.2	832.5	829.9	827.2	824.5	823.2	823.3
147.5°	860.2	859.4	858.7	857.9	857.1	854.4	851.8	849.1	846.4	845.1	845.3
150°	879.9	879.0	878.0	877.1	876.1	873.6	871.1	868.6	866.1	864.8	865.4
152.5°	897.5	896.6	895.7	894.7	893.8	891.4	889.1	886.7	884.4	883.2	883.8
155°	913.0	912.1	911.2	910.2	909.3	907.4	905.5	903.6	901.7	900.8	901.5
157.5°	927.1	926.0	924.9	923.8	922.7	921.3	919.9	918.5	917.1	916.4	917.0
160°	938.4	937.5	936.6	935.6	934.7	933.8	932.8	931.9	931.0	930.5	931.0
162.5°	949.7	948.6	947.5	946.4	945.3	944.5	943.7	943.0	942.2	941.8	942.3
165°	958.2	957.1	956.0	954.9	953.8	953.3	952.9	952.4	951.9	951.7	952.2
167.5°	965.9	964.8	963.7	962.6	961.5	961.0	960.6	960.1	959.6	959.4	959.9
170°	971.6	970.5	969.4	968.3	967.2	966.9	966.6	966.3	966.0	965.8	966.3
172.5°	975.8	974.7	973.6	972.5	971.4	971.1	970.8	970.5	970.2	970.0	970.5
175°	978.6	977.5	976.4	975.3	974.2	973.9	973.6	973.3	973.0	972.8	973.4
177.5°	979.4	978.3	977.2	976.1	975.0	974.8	974.6	974.5	974.3	974.2	974.8
180°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	570.2	570.2	570.2	570.2
2.5°	559.7	559.7	566.2	573.3
5°	547.4	550.5	561.0	570.6
7.5°	535.6	540.8	554.0	566.2
10°	521.1	528.1	544.3	558.8
12.5°	507.1	513.6	532.5	548.7
15°	487.4	495.7	515.8	536.0
17.5°	467.6	476.0	500.5	524.2
20°	444.4	455.4	483.0	514.5
22.5°	422.9	436.5	467.2	492.6
25°	399.3	420.3	448.8	481.7
27.5°	378.2	399.3	428.2	461.5
30°	354.6	376.0	405.8	436.5
32.5°	331.8	351.5	380.4	418.1
35°	308.1	326.9	355.0	393.1
37.5°	286.6	305.0	335.7	370.8
40°	265.6	284.9	311.2	346.2
42.5°	245.9	263.0	286.6	321.7
45°	227.9	240.2	262.1	295.0
47.5°	209.1	220.0	240.2	273.0
50°	191.5	200.7	218.3	248.9
52.5°	174.4	182.3	198.5	223.1
55°	159.1	166.5	178.4	202.5
57.5°	143.3	149.0	160.4	179.7
60°	128.0	133.2	142.4	158.2
62.5°	112.6	117.0	125.8	138.5
65°	99.0	102.6	109.1	120.1
67.5°	85.9	88.1	93.4	102.1
70°	73.2	74.9	79.3	86.3
72.5°	59.6	61.4	66.2	71.0
75°	48.2	48.6	52.2	56.1
77.5°	37.7	37.3	39.9	43.0
80°	25.9	27.2	29.4	30.7
82.5°	17.5	18.0	18.8	19.7
85°	9.6	10.1	10.1	11.4
87.5°	3.9	4.4	4.4	4.8
90°	5.9	4.2	2.4	0.7
92.5°	15.7	16.4	17.0	17.6
95°	30.4	35.5	40.7	45.9
97.5°	44.0	56.9	69.7	82.6
100°	60.5	82.0	103.5	125.0
102.5°	170.6	170.9	171.3	171.6
105°	228.7	224.0	219.3	214.6
107.5°	276.5	272.6	268.6	264.7
110°	322.6	319.3	316.0	312.7

TEST NUMBER: P1029396

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	366.4	363.5	360.7	357.9
115°	413.9	411.2	408.6	405.9
117.5°	457.0	453.9	450.7	447.6
120°	501.3	498.9	496.6	494.2
122.5°	541.2	538.7	536.2	533.7
125°	580.1	578.0	576.0	574.0
127.5°	617.3	615.1	612.9	610.7
130°	652.8	650.3	647.8	645.3
132.5°	686.7	684.6	682.6	680.6
135°	717.7	715.2	712.7	710.2
137.5°	746.9	745.0	743.2	741.3
140°	775.4	774.1	772.9	771.6
142.5°	800.3	799.2	798.1	797.0
145°	823.4	823.6	823.7	823.9
147.5°	845.8	846.3	846.7	847.2
150°	866.5	867.6	868.7	869.8
152.5°	885.1	886.3	887.6	888.8
155°	902.9	904.4	905.8	907.2
157.5°	918.3	919.5	920.8	922.0
160°	931.9	932.8	933.8	934.7
162.5°	943.2	944.1	945.1	946.0
165°	953.1	954.0	955.0	955.9
167.5°	960.8	961.8	962.7	963.7
170°	967.2	968.1	969.1	970.0
172.5°	971.4	972.3	973.3	974.2
175°	974.5	975.6	976.7	977.8
177.5°	975.9	977.0	978.1	979.2
180°	975.7	975.7	975.7	975.7

(END OF REPORT)