

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: P1029366

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029366
REPORT IS A COMBINATION OF REPORTS P985667 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D435UB2750-4F0-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

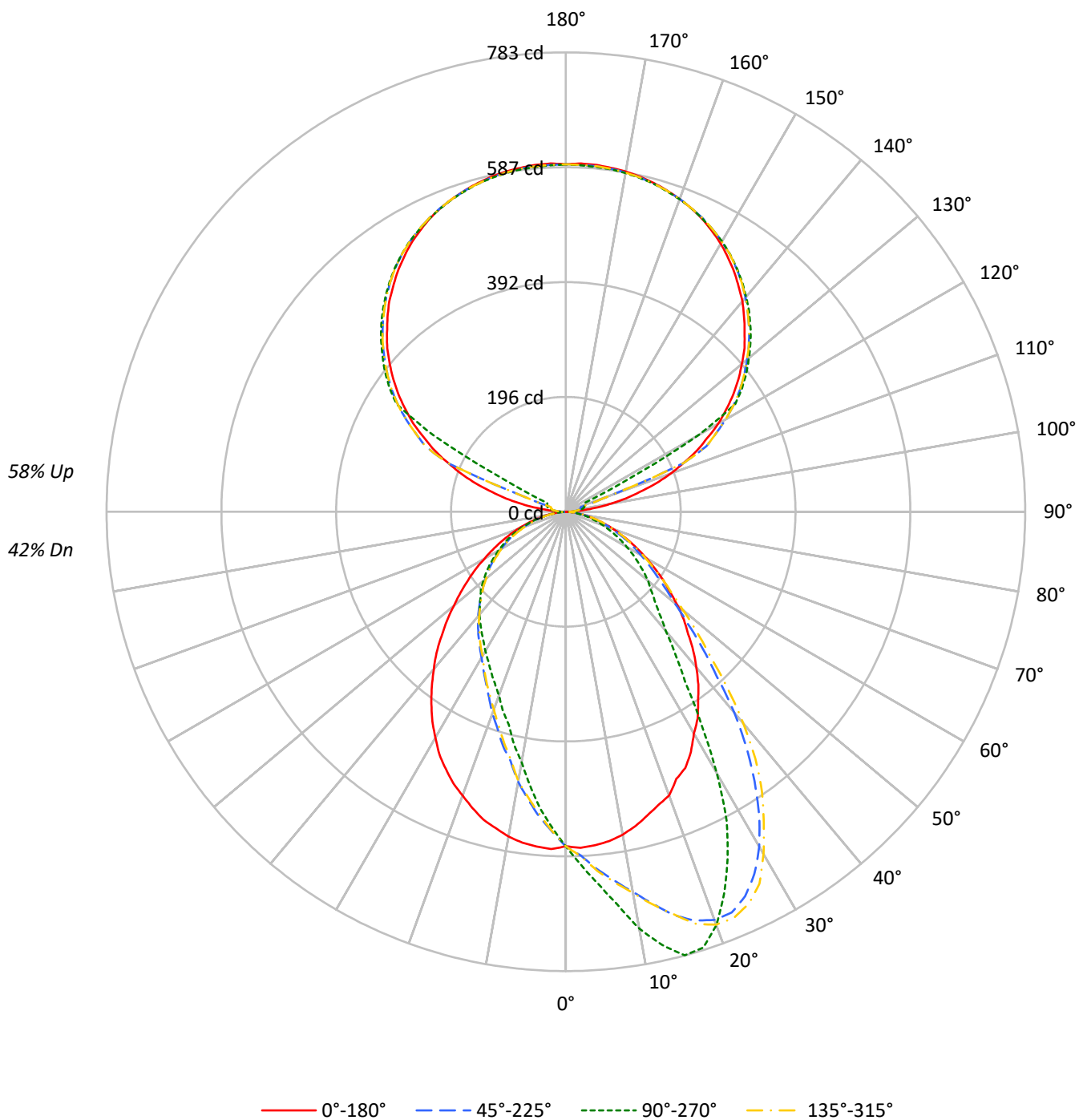
Lumens per Lamp: N/A
Luminaire Lumens: 2995.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	89	85	88	84	81	78	70	68	66	56	55	53	44	43	42
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36
3	81	72	65	59	73	66	60	55	55	50	47	44	41	39	35	33	31
4	74	64	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	38	57	47	40	35	40	34	30	33	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	28	33	28	24	27	23	21	22	19	17
9	50	38	31	26	46	36	29	25	30	25	22	25	21	19	20	18	16
10	47	35	28	24	43	33	26	22	28	23	20	23	20	17	19	16	14

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	1.8
10°-20°	158.1	5.3
20°-30°	229.4	7.7
30°-40°	241.8	8.1
40°-50°	214.0	7.1
50°-60°	170.9	5.7
60°-70°	116.1	3.9
70°-80°	59.4	2.0
80°-90°	15.1	0.5
90°-100°	19.5	0.7
100°-110°	72.8	2.4
110°-120°	193.0	6.4
120°-130°	320.2	10.7
130°-140°	340.1	11.4
140°-150°	316.1	10.6
150°-160°	254.1	8.5
160°-170°	163.8	5.5
170°-180°	56.4	1.9
0°-30°	441.8	14.8
0°-40°	683.6	22.8
0°-60°	1068.5	35.7
0°-90°	1259.0	42.0
90°-120°	285.4	9.5
90°-150°	1261.7	42.1
90°-180°	1736.0	58.0
0°-180°	2995.0	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°	0	12	0	12	0	2
95°	28	18	28	18	28	33
105°	130	33	130	33	130	139
115°	246	35	246	35	246	243
125°	348	366	348	366	348	311
135°	431	445	431	445	431	333
145°	500	508	500	508	500	313
155°	551	551	551	551	551	254
165°	580	579	580	579	580	164
175°	593	590	593	590	593	56
180°	592	592	592	592	592	

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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°	0.4	1.4	2.5	3.5	4.6	5.1	5.5	6.3	7.0	7.8	8.6
92.5°	10.7	10.3	9.9	9.6	9.2	9.0	9.1	9.4	9.7	10.0	10.3
95°	27.9	24.7	21.6	18.4	15.3	13.7	14.0	14.7	15.4	16.0	16.7
97.5°	50.1	42.3	34.5	26.7	18.9	15.0	15.8	17.3	18.8	20.4	21.9
100°	75.8	62.8	49.7	36.7	23.6	17.1	17.9	19.5	21.2	22.8	24.4
102.5°	104.1	103.9	103.7	103.6	103.4	103.3	94.6	77.3	60.0	42.6	25.3
105°	130.3	133.1	136.0	138.8	141.7	143.1	130.1	104.1	78.1	52.1	26.1
107.5°	160.7	163.1	165.5	167.8	170.2	171.4	155.4	123.3	91.2	59.1	27.0
110°	189.8	191.8	193.8	195.8	197.8	198.8	185.0	157.5	130.0	102.5	75.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	217.2	218.9	220.6	222.3	224.0	224.9	224.1	222.5	220.9	219.3	217.7
115°	246.4	248.0	249.6	251.3	252.9	253.7	254.9	257.3	259.6	262.0	264.4
117.5°	271.6	273.5	275.4	277.3	279.2	280.2	281.0	282.6	284.3	285.9	287.5
120°	299.9	301.3	302.8	304.2	305.7	306.4	307.3	309.0	310.7	312.4	314.1
122.5°	323.9	325.4	327.0	328.5	330.0	330.8	331.7	333.6	335.5	337.4	339.3
125°	348.3	349.5	350.8	352.0	353.3	353.9	354.8	356.6	358.5	360.3	362.1
127.5°	370.6	371.9	373.3	374.6	375.9	376.6	377.3	378.8	380.2	381.7	383.1
130°	391.6	393.1	394.7	396.2	397.7	398.5	399.0	400.1	401.1	402.2	403.2
132.5°	413.0	414.2	415.5	416.7	418.0	418.6	419.1	420.2	421.2	422.3	423.3
135°	431.0	432.5	434.1	435.6	437.1	437.9	438.3	439.2	440.1	440.9	441.8
137.5°	449.9	451.0	452.2	453.3	454.4	455.0	455.5	456.4	457.4	458.3	459.3
140°	468.3	469.1	469.8	470.6	471.3	471.7	472.2	473.3	474.4	475.4	476.5
142.5°	483.7	484.4	485.0	485.7	486.4	486.7	487.3	488.6	489.8	491.1	492.3
145°	500.0	499.9	499.8	499.7	499.6	499.6	500.4	502.0	503.7	505.3	506.9
147.5°	514.2	513.9	513.6	513.3	513.0	512.9	513.7	515.3	517.0	518.6	520.2
150°	527.9	527.2	526.6	525.9	525.2	524.9	525.7	527.2	528.7	530.2	531.7
152.5°	539.4	538.6	537.9	537.1	536.4	536.0	536.7	538.1	539.6	541.0	542.4
155°	550.6	549.7	548.9	548.0	547.1	546.7	547.3	548.4	549.6	550.7	551.9
157.5°	559.6	558.8	558.1	557.3	556.6	556.2	556.6	557.5	558.3	559.2	560.0
160°	567.3	566.7	566.1	565.6	565.0	564.7	565.0	565.6	566.1	566.7	567.3
162.5°	574.1	573.5	573.0	572.4	571.9	571.6	571.8	572.3	572.8	573.2	573.7
165°	580.1	579.5	579.0	578.4	577.9	577.6	577.7	578.0	578.3	578.6	578.9
167.5°	584.9	584.3	583.7	583.2	582.6	582.3	582.4	582.7	583.0	583.3	583.6
170°	588.7	588.1	587.5	587.0	586.4	586.1	586.2	586.4	586.6	586.8	587.0
172.5°	591.3	590.7	590.1	589.6	589.0	588.7	588.8	589.0	589.2	589.4	589.6
175°	593.4	592.7	592.1	591.4	590.7	590.4	590.5	590.7	590.9	591.1	591.3
177.5°	594.3	593.6	593.0	592.3	591.6	591.3	591.3	591.4	591.5	591.6	591.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

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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°	9.1	9.5	10.0	10.5	10.7	10.8	11.0	11.2	11.4	11.6	11.4
92.5°	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.5
95°	17.2	17.7	18.2	18.7	18.9	18.8	18.7	18.6	18.5	18.4	18.5
97.5°	22.2	22.4	22.7	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.5
100°	25.2	26.0	26.7	27.5	27.9	28.0	28.2	28.3	28.5	28.7	28.5
102.5°	26.3	27.4	28.4	29.5	30.0	30.1	30.4	30.7	31.0	31.3	31.0
105°	27.1	28.2	29.2	30.3	30.8	31.0	31.4	31.8	32.2	32.6	32.2
107.5°	28.0	29.1	30.1	31.2	31.7	31.9	32.3	32.6	33.0	33.4	33.0
110°	65.5	55.9	46.4	36.9	32.1	32.3	32.7	33.0	33.4	33.8	33.4

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	176.7	135.6	94.6	53.5	33.0	33.1	33.4	33.7	34.0	34.3	34.0
115°	220.3	176.2	132.1	88.0	66.0	62.6	55.7	48.8	42.0	35.1	42.0
117.5°	273.9	260.3	246.6	233.0	226.2	213.7	188.8	163.9	138.9	114.0	138.9
120°	315.2	316.4	317.5	318.6	319.2	312.8	299.9	287.1	274.2	261.4	274.2
122.5°	339.9	340.5	341.0	341.6	341.9	341.9	342.0	342.1	342.2	342.3	342.2
125°	362.8	363.4	364.1	364.8	365.1	365.2	365.5	365.8	366.0	366.3	366.0
127.5°	384.0	385.0	385.9	386.8	387.3	387.4	387.5	387.6	387.7	387.8	387.7
130°	404.2	405.3	406.3	407.4	407.9	407.9	407.8	407.7	407.6	407.5	407.6
132.5°	424.2	425.0	425.9	426.8	427.2	427.2	427.1	427.0	426.9	426.8	426.9
135°	442.7	443.7	444.6	445.5	446.0	445.9	445.7	445.6	445.4	445.2	445.4
137.5°	460.3	461.2	462.2	463.1	463.6	463.5	463.2	462.9	462.6	462.3	462.6
140°	477.3	478.2	479.0	479.9	480.3	480.1	479.6	479.1	478.7	478.2	478.7
142.5°	493.1	493.8	494.6	495.3	495.7	495.5	495.0	494.5	494.1	493.6	494.1
145°	507.6	508.2	508.9	509.6	509.9	509.7	509.2	508.7	508.2	507.7	508.2
147.5°	520.7	521.1	521.6	522.1	522.3	522.1	521.7	521.4	521.0	520.6	521.0
150°	532.3	532.9	533.4	534.0	534.3	534.1	533.6	533.1	532.7	532.2	532.7
152.5°	543.0	543.6	544.1	544.7	545.0	544.7	544.0	543.3	542.7	542.0	542.7
155°	552.5	553.0	553.6	554.1	554.4	554.0	553.3	552.5	551.8	551.0	551.8
157.5°	560.7	561.3	562.0	562.7	563.0	562.6	561.9	561.1	560.4	559.6	560.4
160°	567.9	568.5	569.0	569.6	569.9	569.6	568.9	568.2	567.6	566.9	567.6
162.5°	574.4	575.0	575.7	576.4	576.7	576.3	575.4	574.6	573.7	572.9	573.7
165°	579.6	580.2	580.9	581.6	581.9	581.6	580.9	580.2	579.6	578.9	579.6
167.5°	584.3	584.9	585.6	586.3	586.6	586.2	585.3	584.4	583.6	582.7	583.6
170°	587.7	588.3	589.0	589.7	590.0	589.6	588.7	587.8	587.0	586.1	587.0
172.5°	590.3	590.9	591.6	592.3	592.6	592.2	591.3	590.4	589.6	588.7	589.6
175°	592.0	592.6	593.3	594.0	594.3	593.8	592.9	591.9	591.0	590.0	591.0
177.5°	592.4	593.0	593.7	594.4	594.7	594.3	593.4	592.6	591.7	590.9	591.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-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°	11.2	11.0	10.8	10.7	10.5	10.0	9.5	9.1	8.6	7.8	7.0
92.5°	11.4	11.3	11.2	11.1	11.0	10.8	10.7	10.5	10.3	10.0	9.7
95°	18.6	18.7	18.8	18.9	18.7	18.2	17.7	17.2	16.7	16.0	15.4
97.5°	23.4	23.3	23.2	23.1	23.0	22.7	22.4	22.2	21.9	20.4	18.8
100°	28.3	28.2	28.0	27.9	27.5	26.7	26.0	25.2	24.4	22.8	21.2
102.5°	30.7	30.4	30.1	30.0	29.5	28.4	27.4	26.3	25.3	42.6	60.0
105°	31.8	31.4	31.0	30.8	30.3	29.2	28.2	27.1	26.1	52.1	78.1
107.5°	32.6	32.3	31.9	31.7	31.2	30.1	29.1	28.0	27.0	59.1	91.2
110°	33.0	32.7	32.3	32.1	36.9	46.4	55.9	65.5	75.0	102.5	130.0

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	33.7	33.4	33.1	33.0	53.5	94.6	135.6	176.7	217.7	219.3	220.9
115°	48.8	55.7	62.6	66.0	88.0	132.1	176.2	220.3	264.4	262.0	259.6
117.5°	163.9	188.8	213.7	226.2	233.0	246.6	260.3	273.9	287.5	285.9	284.3
120°	287.1	299.9	312.8	319.2	318.6	317.5	316.4	315.2	314.1	312.4	310.7
122.5°	342.1	342.0	341.9	341.9	341.6	341.0	340.5	339.9	339.3	337.4	335.5
125°	365.8	365.5	365.2	365.1	364.8	364.1	363.4	362.8	362.1	360.3	358.5
127.5°	387.6	387.5	387.4	387.3	386.8	385.9	385.0	384.0	383.1	381.7	380.2
130°	407.7	407.8	407.9	407.9	407.4	406.3	405.3	404.2	403.2	402.2	401.1
132.5°	427.0	427.1	427.2	427.2	426.8	425.9	425.0	424.2	423.3	422.3	421.2
135°	445.6	445.7	445.9	446.0	445.5	444.6	443.7	442.7	441.8	440.9	440.1
137.5°	462.9	463.2	463.5	463.6	463.1	462.2	461.2	460.3	459.3	458.3	457.4
140°	479.1	479.6	480.1	480.3	479.9	479.0	478.2	477.3	476.5	475.4	474.4
142.5°	494.5	495.0	495.5	495.7	495.3	494.6	493.8	493.1	492.3	491.1	489.8
145°	508.7	509.2	509.7	509.9	509.6	508.9	508.2	507.6	506.9	505.3	503.7
147.5°	521.4	521.7	522.1	522.3	522.1	521.6	521.1	520.7	520.2	518.6	517.0
150°	533.1	533.6	534.1	534.3	534.0	533.4	532.9	532.3	531.7	530.2	528.7
152.5°	543.3	544.0	544.7	545.0	544.7	544.1	543.6	543.0	542.4	541.0	539.6
155°	552.5	553.3	554.0	554.4	554.1	553.6	553.0	552.5	551.9	550.7	549.6
157.5°	561.1	561.9	562.6	563.0	562.7	562.0	561.3	560.7	560.0	559.2	558.3
160°	568.2	568.9	569.6	569.9	569.6	569.0	568.5	567.9	567.3	566.7	566.1
162.5°	574.6	575.4	576.3	576.7	576.4	575.7	575.0	574.4	573.7	573.2	572.8
165°	580.2	580.9	581.6	581.9	581.6	580.9	580.2	579.6	578.9	578.6	578.3
167.5°	584.4	585.3	586.2	586.6	586.3	585.6	584.9	584.3	583.6	583.3	583.0
170°	587.8	588.7	589.6	590.0	589.7	589.0	588.3	587.7	587.0	586.8	586.6
172.5°	590.4	591.3	592.2	592.6	592.3	591.6	590.9	590.3	589.6	589.4	589.2
175°	591.9	592.9	593.8	594.3	594.0	593.3	592.6	592.0	591.3	591.1	590.9
177.5°	592.6	593.4	594.3	594.7	594.4	593.7	593.0	592.4	591.7	591.6	591.5
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

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°	6.3	5.5	5.1	4.6	3.5	2.5	1.4	0.4	1.4	2.5	3.5
92.5°	9.4	9.1	9.0	9.2	9.6	9.9	10.3	10.7	10.3	9.9	9.6
95°	14.7	14.0	13.7	15.3	18.4	21.6	24.7	27.9	24.7	21.6	18.4
97.5°	17.3	15.8	15.0	18.9	26.7	34.5	42.3	50.1	42.3	34.5	26.7
100°	19.5	17.9	17.1	23.6	36.7	49.7	62.8	75.8	62.8	49.7	36.7
102.5°	77.3	94.6	103.3	103.4	103.6	103.7	103.9	104.1	103.9	103.7	103.6
105°	104.1	130.1	143.1	141.7	138.8	136.0	133.1	130.3	133.1	136.0	138.8
107.5°	123.3	155.4	171.4	170.2	167.8	165.5	163.1	160.7	163.1	165.5	167.8
110°	157.5	185.0	198.8	197.8	195.8	193.8	191.8	189.8	191.8	193.8	195.8

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	222.5	224.1	224.9	224.0	222.3	220.6	218.9	217.2	218.9	220.6	222.3
115°	257.3	254.9	253.7	252.9	251.3	249.6	248.0	246.4	248.0	249.6	251.3
117.5°	282.6	281.0	280.2	279.2	277.3	275.4	273.5	271.6	273.5	275.4	277.3
120°	309.0	307.3	306.4	305.7	304.2	302.8	301.3	299.9	301.3	302.8	304.2
122.5°	333.6	331.7	330.8	330.0	328.5	327.0	325.4	323.9	325.4	327.0	328.5
125°	356.6	354.8	353.9	353.3	352.0	350.8	349.5	348.3	349.5	350.8	352.0
127.5°	378.8	377.3	376.6	375.9	374.6	373.3	371.9	370.6	371.9	373.3	374.6
130°	400.1	399.0	398.5	397.7	396.2	394.7	393.1	391.6	393.1	394.7	396.2
132.5°	420.2	419.1	418.6	418.0	416.7	415.5	414.2	413.0	414.2	415.5	416.7
135°	439.2	438.3	437.9	437.1	435.6	434.1	432.5	431.0	432.5	434.1	435.6
137.5°	456.4	455.5	455.0	454.4	453.3	452.2	451.0	449.9	451.0	452.2	453.3
140°	473.3	472.2	471.7	471.3	470.6	469.8	469.1	468.3	469.1	469.8	470.6
142.5°	488.6	487.3	486.7	486.4	485.7	485.0	484.4	483.7	484.4	485.0	485.7
145°	502.0	500.4	499.6	499.6	499.7	499.8	499.9	500.0	499.9	499.8	499.7
147.5°	515.3	513.7	512.9	513.0	513.3	513.6	513.9	514.2	513.9	513.6	513.3
150°	527.2	525.7	524.9	525.2	525.9	526.6	527.2	527.9	527.2	526.6	525.9
152.5°	538.1	536.7	536.0	536.4	537.1	537.9	538.6	539.4	538.6	537.9	537.1
155°	548.4	547.3	546.7	547.1	548.0	548.9	549.7	550.6	549.7	548.9	548.0
157.5°	557.5	556.6	556.2	556.6	557.3	558.1	558.8	559.6	558.8	558.1	557.3
160°	565.6	565.0	564.7	565.0	565.6	566.1	566.7	567.3	566.7	566.1	565.6
162.5°	572.3	571.8	571.6	571.9	572.4	573.0	573.5	574.1	573.5	573.0	572.4
165°	578.0	577.7	577.6	577.9	578.4	579.0	579.5	580.1	579.5	579.0	578.4
167.5°	582.7	582.4	582.3	582.6	583.2	583.7	584.3	584.9	584.3	583.7	583.2
170°	586.4	586.2	586.1	586.4	587.0	587.5	588.1	588.7	588.1	587.5	587.0
172.5°	589.0	588.8	588.7	589.0	589.6	590.1	590.7	591.3	590.7	590.1	589.6
175°	590.7	590.5	590.4	590.7	591.4	592.1	592.7	593.4	592.7	592.1	591.4
177.5°	591.4	591.3	591.3	591.6	592.3	593.0	593.6	594.3	593.6	593.0	592.3
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-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°	4.6	5.1	5.5	6.3	7.0	7.8	8.6	9.1	9.5	10.0	10.5
92.5°	9.2	9.0	9.1	9.4	9.7	10.0	10.3	10.5	10.7	10.8	11.0
95°	15.3	13.7	14.0	14.7	15.4	16.0	16.7	17.2	17.7	18.2	18.7
97.5°	18.9	15.0	15.8	17.3	18.8	20.4	21.9	22.2	22.4	22.7	23.0
100°	23.6	17.1	17.9	19.5	21.2	22.8	24.4	25.2	26.0	26.7	27.5
102.5°	103.4	103.3	94.6	77.3	60.0	42.6	25.3	26.3	27.4	28.4	29.5
105°	141.7	143.1	130.1	104.1	78.1	52.1	26.1	27.1	28.2	29.2	30.3
107.5°	170.2	171.4	155.4	123.3	91.2	59.1	27.0	28.0	29.1	30.1	31.2
110°	197.8	198.8	185.0	157.5	130.0	102.5	75.0	65.5	55.9	46.4	36.9

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	224.0	224.9	224.1	222.5	220.9	219.3	217.7	176.7	135.6	94.6	53.5
115°	252.9	253.7	254.9	257.3	259.6	262.0	264.4	220.3	176.2	132.1	88.0
117.5°	279.2	280.2	281.0	282.6	284.3	285.9	287.5	273.9	260.3	246.6	233.0
120°	305.7	306.4	307.3	309.0	310.7	312.4	314.1	315.2	316.4	317.5	318.6
122.5°	330.0	330.8	331.7	333.6	335.5	337.4	339.3	339.9	340.5	341.0	341.6
125°	353.3	353.9	354.8	356.6	358.5	360.3	362.1	362.8	363.4	364.1	364.8
127.5°	375.9	376.6	377.3	378.8	380.2	381.7	383.1	384.0	385.0	385.9	386.8
130°	397.7	398.5	399.0	400.1	401.1	402.2	403.2	404.2	405.3	406.3	407.4
132.5°	418.0	418.6	419.1	420.2	421.2	422.3	423.3	424.2	425.0	425.9	426.8
135°	437.1	437.9	438.3	439.2	440.1	440.9	441.8	442.7	443.7	444.6	445.5
137.5°	454.4	455.0	455.5	456.4	457.4	458.3	459.3	460.3	461.2	462.2	463.1
140°	471.3	471.7	472.2	473.3	474.4	475.4	476.5	477.3	478.2	479.0	479.9
142.5°	486.4	486.7	487.3	488.6	489.8	491.1	492.3	493.1	493.8	494.6	495.3
145°	499.6	499.6	500.4	502.0	503.7	505.3	506.9	507.6	508.2	508.9	509.6
147.5°	513.0	512.9	513.7	515.3	517.0	518.6	520.2	520.7	521.1	521.6	522.1
150°	525.2	524.9	525.7	527.2	528.7	530.2	531.7	532.3	532.9	533.4	534.0
152.5°	536.4	536.0	536.7	538.1	539.6	541.0	542.4	543.0	543.6	544.1	544.7
155°	547.1	546.7	547.3	548.4	549.6	550.7	551.9	552.5	553.0	553.6	554.1
157.5°	556.6	556.2	556.6	557.5	558.3	559.2	560.0	560.7	561.3	562.0	562.7
160°	565.0	564.7	565.0	565.6	566.1	566.7	567.3	567.9	568.5	569.0	569.6
162.5°	571.9	571.6	571.8	572.3	572.8	573.2	573.7	574.4	575.0	575.7	576.4
165°	577.9	577.6	577.7	578.0	578.3	578.6	578.9	579.6	580.2	580.9	581.6
167.5°	582.6	582.3	582.4	582.7	583.0	583.3	583.6	584.3	584.9	585.6	586.3
170°	586.4	586.1	586.2	586.4	586.6	586.8	587.0	587.7	588.3	589.0	589.7
172.5°	589.0	588.7	588.8	589.0	589.2	589.4	589.6	590.3	590.9	591.6	592.3
175°	590.7	590.4	590.5	590.7	590.9	591.1	591.3	592.0	592.6	593.3	594.0
177.5°	591.6	591.3	591.3	591.4	591.5	591.6	591.7	592.4	593.0	593.7	594.4
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-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°	10.7	10.8	11.0	11.2	11.4	11.6	11.4	11.2	11.0	10.8	10.7
92.5°	11.1	11.2	11.3	11.4	11.5	11.6	11.5	11.4	11.3	11.2	11.1
95°	18.9	18.8	18.7	18.6	18.5	18.4	18.5	18.6	18.7	18.8	18.9
97.5°	23.1	23.2	23.3	23.4	23.5	23.6	23.5	23.4	23.3	23.2	23.1
100°	27.9	28.0	28.2	28.3	28.5	28.7	28.5	28.3	28.2	28.0	27.9
102.5°	30.0	30.1	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.1	30.0
105°	30.8	31.0	31.4	31.8	32.2	32.6	32.2	31.8	31.4	31.0	30.8
107.5°	31.7	31.9	32.3	32.6	33.0	33.4	33.0	32.6	32.3	31.9	31.7
110°	32.1	32.3	32.7	33.0	33.4	33.8	33.4	33.0	32.7	32.3	32.1

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	33.0	33.1	33.4	33.7	34.0	34.3	34.0	33.7	33.4	33.1	33.0
115°	66.0	62.6	55.7	48.8	42.0	35.1	42.0	48.8	55.7	62.6	66.0
117.5°	226.2	213.7	188.8	163.9	138.9	114.0	138.9	163.9	188.8	213.7	226.2
120°	319.2	312.8	299.9	287.1	274.2	261.4	274.2	287.1	299.9	312.8	319.2
122.5°	341.9	341.9	342.0	342.1	342.2	342.3	342.2	342.1	342.0	341.9	341.9
125°	365.1	365.2	365.5	365.8	366.0	366.3	366.0	365.8	365.5	365.2	365.1
127.5°	387.3	387.4	387.5	387.6	387.7	387.8	387.7	387.6	387.5	387.4	387.3
130°	407.9	407.9	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9
132.5°	427.2	427.2	427.1	427.0	426.9	426.8	426.9	427.0	427.1	427.2	427.2
135°	446.0	445.9	445.7	445.6	445.4	445.2	445.4	445.6	445.7	445.9	446.0
137.5°	463.6	463.5	463.2	462.9	462.6	462.3	462.6	462.9	463.2	463.5	463.6
140°	480.3	480.1	479.6	479.1	478.7	478.2	478.7	479.1	479.6	480.1	480.3
142.5°	495.7	495.5	495.0	494.5	494.1	493.6	494.1	494.5	495.0	495.5	495.7
145°	509.9	509.7	509.2	508.7	508.2	507.7	508.2	508.7	509.2	509.7	509.9
147.5°	522.3	522.1	521.7	521.4	521.0	520.6	521.0	521.4	521.7	522.1	522.3
150°	534.3	534.1	533.6	533.1	532.7	532.2	532.7	533.1	533.6	534.1	534.3
152.5°	545.0	544.7	544.0	543.3	542.7	542.0	542.7	543.3	544.0	544.7	545.0
155°	554.4	554.0	553.3	552.5	551.8	551.0	551.8	552.5	553.3	554.0	554.4
157.5°	563.0	562.6	561.9	561.1	560.4	559.6	560.4	561.1	561.9	562.6	563.0
160°	569.9	569.6	568.9	568.2	567.6	566.9	567.6	568.2	568.9	569.6	569.9
162.5°	576.7	576.3	575.4	574.6	573.7	572.9	573.7	574.6	575.4	576.3	576.7
165°	581.9	581.6	580.9	580.2	579.6	578.9	579.6	580.2	580.9	581.6	581.9
167.5°	586.6	586.2	585.3	584.4	583.6	582.7	583.6	584.4	585.3	586.2	586.6
170°	590.0	589.6	588.7	587.8	587.0	586.1	587.0	587.8	588.7	589.6	590.0
172.5°	592.6	592.2	591.3	590.4	589.6	588.7	589.6	590.4	591.3	592.2	592.6
175°	594.3	593.8	592.9	591.9	591.0	590.0	591.0	591.9	592.9	593.8	594.3
177.5°	594.7	594.3	593.4	592.6	591.7	590.9	591.7	592.6	593.4	594.3	594.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

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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°	10.5	10.0	9.5	9.1	8.6	7.8	7.0	6.3	5.5	5.1	4.6
92.5°	11.0	10.8	10.7	10.5	10.3	10.0	9.7	9.4	9.1	9.0	9.2
95°	18.7	18.2	17.7	17.2	16.7	16.0	15.4	14.7	14.0	13.7	15.3
97.5°	23.0	22.7	22.4	22.2	21.9	20.4	18.8	17.3	15.8	15.0	18.9
100°	27.5	26.7	26.0	25.2	24.4	22.8	21.2	19.5	17.9	17.1	23.6
102.5°	29.5	28.4	27.4	26.3	25.3	42.6	60.0	77.3	94.6	103.3	103.4
105°	30.3	29.2	28.2	27.1	26.1	52.1	78.1	104.1	130.1	143.1	141.7
107.5°	31.2	30.1	29.1	28.0	27.0	59.1	91.2	123.3	155.4	171.4	170.2
110°	36.9	46.4	55.9	65.5	75.0	102.5	130.0	157.5	185.0	198.8	197.8

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	53.5	94.6	135.6	176.7	217.7	219.3	220.9	222.5	224.1	224.9	224.0
115°	88.0	132.1	176.2	220.3	264.4	262.0	259.6	257.3	254.9	253.7	252.9
117.5°	233.0	246.6	260.3	273.9	287.5	285.9	284.3	282.6	281.0	280.2	279.2
120°	318.6	317.5	316.4	315.2	314.1	312.4	310.7	309.0	307.3	306.4	305.7
122.5°	341.6	341.0	340.5	339.9	339.3	337.4	335.5	333.6	331.7	330.8	330.0
125°	364.8	364.1	363.4	362.8	362.1	360.3	358.5	356.6	354.8	353.9	353.3
127.5°	386.8	385.9	385.0	384.0	383.1	381.7	380.2	378.8	377.3	376.6	375.9
130°	407.4	406.3	405.3	404.2	403.2	402.2	401.1	400.1	399.0	398.5	397.7
132.5°	426.8	425.9	425.0	424.2	423.3	422.3	421.2	420.2	419.1	418.6	418.0
135°	445.5	444.6	443.7	442.7	441.8	440.9	440.1	439.2	438.3	437.9	437.1
137.5°	463.1	462.2	461.2	460.3	459.3	458.3	457.4	456.4	455.5	455.0	454.4
140°	479.9	479.0	478.2	477.3	476.5	475.4	474.4	473.3	472.2	471.7	471.3
142.5°	495.3	494.6	493.8	493.1	492.3	491.1	489.8	488.6	487.3	486.7	486.4
145°	509.6	508.9	508.2	507.6	506.9	505.3	503.7	502.0	500.4	499.6	499.6
147.5°	522.1	521.6	521.1	520.7	520.2	518.6	517.0	515.3	513.7	512.9	513.0
150°	534.0	533.4	532.9	532.3	531.7	530.2	528.7	527.2	525.7	524.9	525.2
152.5°	544.7	544.1	543.6	543.0	542.4	541.0	539.6	538.1	536.7	536.0	536.4
155°	554.1	553.6	553.0	552.5	551.9	550.7	549.6	548.4	547.3	546.7	547.1
157.5°	562.7	562.0	561.3	560.7	560.0	559.2	558.3	557.5	556.6	556.2	556.6
160°	569.6	569.0	568.5	567.9	567.3	566.7	566.1	565.6	565.0	564.7	565.0
162.5°	576.4	575.7	575.0	574.4	573.7	573.2	572.8	572.3	571.8	571.6	571.9
165°	581.6	580.9	580.2	579.6	578.9	578.6	578.3	578.0	577.7	577.6	577.9
167.5°	586.3	585.6	584.9	584.3	583.6	583.3	583.0	582.7	582.4	582.3	582.6
170°	589.7	589.0	588.3	587.7	587.0	586.8	586.6	586.4	586.2	586.1	586.4
172.5°	592.3	591.6	590.9	590.3	589.6	589.4	589.2	589.0	588.8	588.7	589.0
175°	594.0	593.3	592.6	592.0	591.3	591.1	590.9	590.7	590.5	590.4	590.7
177.5°	594.4	593.7	593.0	592.4	591.7	591.6	591.5	591.4	591.3	591.3	591.6
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

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°	3.5	2.5	1.4	0.4
92.5°	9.6	9.9	10.3	10.7
95°	18.4	21.6	24.7	27.9
97.5°	26.7	34.5	42.3	50.1
100°	36.7	49.7	62.8	75.8
102.5°	103.6	103.7	103.9	104.1
105°	138.8	136.0	133.1	130.3
107.5°	167.8	165.5	163.1	160.7
110°	195.8	193.8	191.8	189.8



TEST NUMBER: P1029366

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	222.3	220.6	218.9	217.2
115°	251.3	249.6	248.0	246.4
117.5°	277.3	275.4	273.5	271.6
120°	304.2	302.8	301.3	299.9
122.5°	328.5	327.0	325.4	323.9
125°	352.0	350.8	349.5	348.3
127.5°	374.6	373.3	371.9	370.6
130°	396.2	394.7	393.1	391.6
132.5°	416.7	415.5	414.2	413.0
135°	435.6	434.1	432.5	431.0
137.5°	453.3	452.2	451.0	449.9
140°	470.6	469.8	469.1	468.3
142.5°	485.7	485.0	484.4	483.7
145°	499.7	499.8	499.9	500.0
147.5°	513.3	513.6	513.9	514.2
150°	525.9	526.6	527.2	527.9
152.5°	537.1	537.9	538.6	539.4
155°	548.0	548.9	549.7	550.6
157.5°	557.3	558.1	558.8	559.6
160°	565.6	566.1	566.7	567.3
162.5°	572.4	573.0	573.5	574.1
165°	578.4	579.0	579.5	580.1
167.5°	583.2	583.7	584.3	584.9
170°	587.0	587.5	588.1	588.7
172.5°	589.6	590.1	590.7	591.3
175°	591.4	592.1	592.7	593.4
177.5°	592.3	593.0	593.6	594.3
180°	592.1	592.1	592.1	592.1

(END OF REPORT)