

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: P1001333

Luminaire Tested: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001333
REPORT IS A COMBINATION OF REPORTS P995952 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

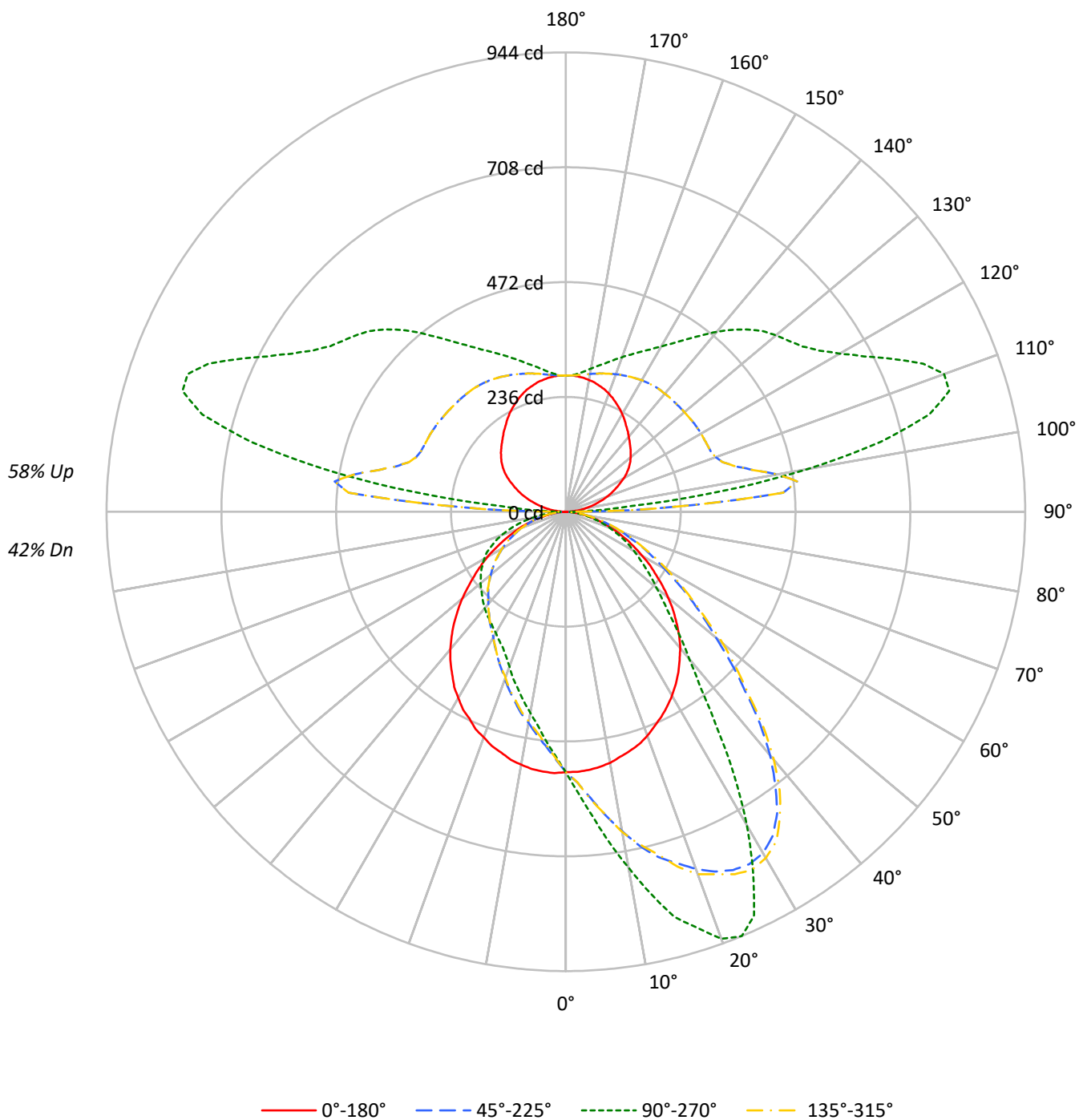
Lumens per Lamp: N/A
Luminaire Lumens: 3515.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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



TEST NUMBER: P1001333

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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	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4362	4362	4362	4362
5°	4351	5004	4376	3760
10°	4318	5838	4351	3299
15°	4266	6730	4296	2951
20°	4211	7298	4241	2646
25°	4130	7214	4170	2421
30°	4052	5963	4101	2305
35°	3941	4444	3985	2235
40°	3812	3347	3849	2200
45°	3615	2687	3660	2153
50°	3379	2264	3428	2132
55°	3102	1970	3152	2107
60°	2834	1735	2917	2072
65°	2580	1492	2606	1985
70°	2285	1228	2334	1828
75°	1991	943	1980	1552
80°	1567	620	1551	1178
85°	1033	279	968	688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.5
10°-20°	160.7	4.6
20°-30°	255.3	7.3
30°-40°	283.6	8.1
40°-50°	257.9	7.3
50°-60°	210.8	6.0
60°-70°	150.5	4.3
70°-80°	82.8	2.4
80°-90°	23.5	0.7
90°-100°	202.8	5.8
100°-110°	423.4	12.0
110°-120°	376.4	10.7
120°-130°	316.8	9.0
130°-140°	264.3	7.5
140°-150°	201.8	5.7
150°-160°	141.9	4.0
160°-170°	83.4	2.4
170°-180°	27.1	0.8
0°-30°	468.0	13.3
0°-40°	751.6	21.4
0°-60°	1220.4	34.7
0°-90°	1477.1	42.0
90°-120°	1002.5	28.5
90°-150°	1785.4	50.8
90°-180°	2038.0	58.0
0°-180°	3515.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	535	535	535	535	535	
5°	533	628	536	472	533	51
15°	509	862	512	378	509	144
25°	464	915	469	307	464	214
35°	403	541	407	272	403	252
45°	321	304	325	243	321	248
55°	226	198	230	212	226	203
65°	141	128	142	170	141	139
75°	69	64	69	105	69	73
85°	14	13	13	33	14	17
90°	0	12	0	12	0	2
95°	18	134	18	134	18	20
105°	64	774	64	774	64	69
115°	113	743	113	743	113	112
125°	158	593	158	593	158	141
135°	188	530	188	530	188	145
145°	216	433	216	433	216	136
155°	246	362	246	362	246	113
165°	268	316	268	316	268	76
175°	279	285	279	285	279	27
180°	280	280	280	280	280	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	534.9	540.2	542.4	544.2	550.0	551.7	552.2	554.8	557.1	557.5	557.5
5°	532.7	541.1	547.7	553.9	563.3	567.2	572.1	577.4	584.5	589.0	591.2
7.5°	529.1	541.5	551.7	562.4	575.2	583.2	587.6	601.8	611.6	619.5	629.3
10°	523.8	539.8	554.4	569.9	588.1	597.8	607.6	624.9	638.6	654.1	666.5
12.5°	515.8	536.7	554.4	576.1	598.7	610.2	621.8	651.9	667.8	681.6	703.7
15°	508.7	529.6	554.8	577.0	604.9	622.2	639.0	658.5	683.8	713.5	734.8
17.5°	500.8	526.9	550.4	581.4	612.4	628.8	642.6	672.7	708.2	737.4	756.9
20°	489.7	516.3	547.3	580.1	616.9	629.7	647.9	688.2	720.1	748.9	780.8
22.5°	476.8	507.9	540.7	572.1	610.2	637.3	657.2	692.7	731.2	764.5	800.3
25°	464.4	498.1	526.9	569.9	610.2	628.4	651.0	693.1	735.2	775.5	812.3
27.5°	451.1	482.6	521.6	555.7	601.4	621.3	645.7	691.8	736.5	776.9	816.3
30°	436.5	470.2	502.5	542.9	587.2	612.9	635.5	685.6	731.2	773.3	810.1
32.5°	420.1	452.0	486.6	524.7	571.2	597.4	625.7	677.1	725.9	762.2	790.6
35°	402.8	435.2	465.3	504.3	552.2	578.3	605.8	662.5	710.8	740.5	756.9
37.5°	383.8	414.4	444.0	482.6	530.5	558.4	586.3	641.3	686.9	711.7	707.3
40°	365.6	393.1	420.6	456.9	507.0	536.7	561.0	616.4	656.3	667.0	652.3
42.5°	344.8	368.3	394.9	432.1	480.8	508.7	539.3	589.8	619.5	615.1	590.3
45°	321.3	342.1	368.7	403.7	453.4	482.2	507.9	555.7	577.4	566.4	521.2
47.5°	298.7	319.1	340.8	375.8	424.1	448.5	474.6	517.6	530.0	506.5	461.3
50°	274.3	291.2	313.8	347.0	392.2	417.9	439.6	474.2	478.6	449.8	402.8
52.5°	250.8	265.0	286.7	319.5	361.6	382.0	403.3	433.9	430.3	400.6	355.4
55°	226.0	239.3	259.2	289.4	326.6	346.1	364.3	391.3	383.8	353.2	313.8
57.5°	205.2	214.5	234.0	261.9	292.5	313.8	329.3	350.5	339.0	308.4	271.7
60°	181.3	192.8	209.2	231.8	261.9	276.1	289.8	304.0	296.0	266.8	234.0
62.5°	159.5	168.4	182.6	204.3	227.8	240.6	255.3	264.1	256.1	229.1	201.6
65°	140.9	148.0	159.1	176.8	199.4	210.1	218.5	226.9	220.3	195.0	175.0
67.5°	120.5	126.7	136.0	150.2	169.3	176.8	184.8	190.6	183.0	166.2	146.7
70°	102.4	106.8	115.7	126.3	139.6	146.7	153.3	159.1	152.4	138.3	123.6
72.5°	83.8	87.3	95.3	102.8	114.8	119.7	124.5	129.0	126.7	113.4	101.5
75°	69.1	70.5	75.8	82.0	89.5	94.8	98.4	101.0	99.3	88.6	81.1
77.5°	52.3	54.1	58.1	62.9	69.6	72.7	74.9	77.6	75.3	66.9	61.6
80°	38.1	38.6	40.8	45.2	49.6	50.1	52.3	55.8	54.5	48.7	44.8
82.5°	24.4	25.7	26.6	29.2	32.4	33.2	34.6	35.5	35.0	31.5	30.1
85°	14.2	14.2	15.1	16.8	17.7	19.1	19.5	19.9	20.8	18.6	17.3
87.5°	6.2	6.6	6.6	7.1	8.0	8.0	8.4	8.9	9.3	8.9	7.5
90°	0.5	1.6	3.3	3.8	4.4	4.4	4.4	7.7	7.7	8.8	9.9
92.5°	7.7	11.0	17.0	25.3	35.2	42.4	49.5	83.6	136.9	188.6	215.5
95°	18.1	19.8	25.3	32.4	45.6	57.2	68.7	116.5	206.7	338.1	448.0
97.5°	30.2	30.2	35.2	41.8	53.3	63.2	73.1	111.0	188.6	323.8	479.4
100°	41.8	41.8	45.6	52.2	62.7	71.5	80.3	112.7	174.8	287.0	442.0
102.5°	52.8	53.9	57.2	63.2	73.1	81.4	89.6	118.2	171.0	262.2	395.2
105°	64.3	66.0	68.7	75.3	85.2	93.2	101.1	127.5	173.2	250.1	360.6
107.5°	77.0	78.1	80.8	88.0	97.3	105.2	113.2	137.4	179.8	246.8	338.1
110°	89.6	90.7	93.5	100.0	109.9	117.4	124.8	149.0	187.5	247.9	327.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.7	102.8	106.1	112.1	122.0	129.4	136.9	160.0	195.7	251.2	322.7
115°	113.2	114.9	118.7	124.2	134.7	142.1	149.5	171.5	204.5	255.6	321.6
117.5°	125.3	127.0	130.3	136.3	146.2	153.9	161.6	182.5	213.3	260.0	321.0
120°	137.4	138.5	142.4	148.4	157.8	165.5	173.2	194.1	222.6	265.0	321.0
122.5°	148.4	149.5	153.4	158.9	169.3	176.8	184.2	205.0	231.4	269.9	320.5
125°	157.8	160.0	163.3	169.3	179.8	187.4	195.1	214.9	240.2	274.9	319.9
127.5°	166.6	168.2	172.1	178.7	189.7	197.4	205.0	224.3	247.9	278.7	318.8
130°	173.7	175.9	180.3	188.6	199.0	207.0	214.9	233.6	255.1	283.1	318.3
132.5°	180.9	182.5	188.6	196.2	207.8	215.2	222.6	241.3	262.2	287.0	317.7
135°	187.5	189.7	195.1	204.5	216.0	223.2	230.3	248.5	268.3	290.8	317.2
137.5°	194.1	196.2	202.3	211.1	223.2	230.0	236.9	254.0	272.7	293.0	317.2
140°	201.2	202.8	208.9	218.2	229.8	236.4	243.0	259.5	277.1	295.7	316.6
142.5°	208.9	210.5	216.0	224.8	235.8	242.2	248.5	264.4	280.4	297.9	316.6
145°	216.0	217.7	223.2	230.9	241.3	247.4	253.4	267.7	282.6	298.5	315.5
147.5°	224.3	224.8	229.8	238.0	246.8	252.3	257.8	271.6	284.8	299.0	313.9
150°	232.0	232.5	236.9	243.5	251.8	257.0	262.2	274.3	286.4	299.0	312.2
152.5°	239.1	239.1	243.5	249.6	256.7	261.4	266.1	276.5	287.5	297.9	309.5
155°	245.7	246.3	249.6	255.1	261.1	265.2	269.4	278.7	288.1	296.8	306.7
157.5°	252.3	252.3	255.6	260.0	265.5	268.8	272.1	280.4	288.1	295.7	304.0
160°	258.4	258.4	260.6	264.4	268.8	271.8	274.9	281.5	288.1	294.1	300.7
162.5°	263.9	263.3	265.0	268.3	272.1	274.3	276.5	282.6	288.1	292.4	297.4
165°	267.7	267.7	268.8	271.6	274.3	276.0	277.6	282.6	287.0	290.3	294.1
167.5°	272.1	271.6	272.1	274.3	276.0	277.4	278.7	282.6	285.9	288.1	290.8
170°	274.9	274.3	274.9	276.5	277.6	278.5	279.3	282.0	284.8	285.9	287.5
172.5°	277.6	277.1	277.1	278.2	278.7	279.2	279.8	281.5	283.7	283.7	284.2
175°	279.3	278.7	278.7	279.3	279.8	279.8	279.8	280.9	282.6	282.0	282.0
177.5°	280.4	279.8	279.3	279.8	279.8	279.8	279.8	280.4	281.5	280.4	280.4
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	558.8	566.8	570.3	571.2	576.1	573.0	574.3	573.9	577.4	577.9	577.9
5°	599.6	608.9	612.0	616.4	623.1	624.9	623.5	626.2	631.1	627.5	632.8
7.5°	642.6	652.8	659.9	669.6	671.8	677.6	681.1	684.2	685.1	685.6	686.5
10°	682.5	695.3	705.1	721.5	725.0	728.1	743.6	737.4	745.4	742.7	743.6
12.5°	714.8	740.1	748.1	775.5	778.2	788.8	787.9	797.7	799.5	803.0	799.5
15°	757.4	786.6	799.5	815.0	823.8	836.2	838.5	851.8	857.1	861.9	857.1
17.5°	796.4	811.9	844.7	857.1	862.8	869.5	886.3	891.2	899.2	896.1	904.9
20°	815.9	838.0	872.6	893.9	902.7	908.9	923.1	930.6	933.7	933.7	934.6
22.5°	833.1	865.0	890.8	915.1	923.1	927.5	936.0	941.7	943.0	943.9	944.8
25°	848.7	877.5	898.3	912.0	915.1	915.1	920.0	916.5	910.7	915.1	917.8
27.5°	848.7	869.0	878.3	883.2	883.2	871.3	864.2	849.5	837.1	833.6	841.6
30°	834.5	843.8	830.9	819.0	809.7	801.7	773.8	751.6	747.2	744.1	756.0
32.5°	801.7	789.7	764.5	729.9	716.1	698.0	676.3	659.4	649.2	645.7	643.0
35°	743.6	712.6	679.8	633.3	623.5	600.5	570.8	558.4	541.5	541.1	546.9
37.5°	680.2	632.4	596.9	552.6	538.9	514.5	486.6	473.7	462.2	453.4	464.0
40°	606.2	564.6	510.5	474.2	454.7	441.8	418.3	404.2	398.8	394.4	401.1
42.5°	537.1	491.5	449.4	412.1	396.2	381.6	366.0	352.3	348.3	347.9	352.8
45°	468.4	423.7	384.7	352.8	342.6	333.7	318.6	314.6	308.0	303.6	305.8
47.5°	413.5	367.4	335.0	310.7	301.8	294.3	284.5	277.9	272.1	270.3	273.0
50°	359.4	328.4	295.1	274.8	268.1	261.0	253.5	247.3	244.6	242.9	244.6
52.5°	316.0	282.7	260.1	243.7	237.1	231.8	226.5	223.8	220.3	221.1	222.9
55°	277.0	247.7	228.7	216.7	212.7	210.5	203.9	200.8	199.4	198.5	199.4
57.5°	240.2	218.9	204.7	194.5	189.2	187.9	182.6	182.6	181.3	179.9	180.4
60°	210.9	192.8	179.0	171.1	170.2	168.0	164.4	164.0	160.9	162.2	162.6
62.5°	181.3	166.6	157.3	152.4	149.3	148.5	146.2	145.8	144.5	144.9	144.0
65°	157.8	145.8	136.5	132.5	131.2	130.7	129.0	127.6	126.7	127.6	126.7
67.5°	134.3	126.3	119.2	115.2	113.4	113.0	111.7	110.8	111.2	109.9	110.8
70°	112.1	104.1	99.7	97.5	96.6	95.3	95.3	95.3	95.3	94.4	93.9
72.5°	94.4	86.4	83.3	82.0	81.1	80.7	79.3	79.8	79.3	78.9	80.7
75°	74.9	70.0	66.9	65.6	66.5	65.1	63.8	64.7	63.4	63.8	65.6
77.5°	56.7	54.5	52.7	51.8	51.0	50.1	50.1	49.2	49.2	49.2	49.2
80°	41.2	40.8	37.7	37.2	37.2	36.3	36.3	36.3	36.3	35.9	36.3
82.5°	27.5	27.0	26.1	25.7	24.8	25.3	25.3	24.4	24.4	23.9	24.4
85°	16.0	16.0	15.1	14.6	14.2	14.6	13.7	13.3	13.7	13.3	13.7
87.5°	7.5	6.6	7.1	6.6	5.8	6.2	5.3	5.8	5.3	4.9	5.8
90°	9.3	9.9	10.4	11.0	11.0	11.0	11.5	12.1	11.5	11.5	11.5
92.5°	179.2	132.5	98.9	78.1	71.2	64.3	56.1	52.2	50.0	50.0	50.0
95°	460.7	407.3	322.1	248.5	221.8	195.1	168.2	151.2	141.3	134.1	141.3
97.5°	577.8	586.5	544.2	483.8	453.0	422.2	384.8	351.8	335.3	322.1	335.3
100°	582.7	663.0	674.0	647.0	626.6	606.3	558.5	525.0	508.5	504.1	508.5
102.5°	541.5	659.1	724.5	741.0	735.5	730.0	705.3	683.3	665.7	662.4	665.7
105°	489.8	615.7	710.8	765.2	776.4	787.7	788.8	784.4	776.8	773.5	776.8
107.5°	447.5	562.4	665.2	741.0	764.1	787.2	811.4	821.3	825.7	826.2	825.7
110°	417.2	515.1	610.2	689.9	720.2	750.4	789.4	812.5	822.4	827.3	822.4

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	400.2	480.5	561.8	636.0	666.2	696.5	742.1	771.3	786.1	794.9	786.1
115°	390.8	459.6	527.2	591.5	617.9	644.3	687.7	720.7	738.3	742.7	738.3
117.5°	385.9	447.5	504.6	556.9	580.0	603.0	641.5	670.1	688.8	691.5	688.8
120°	382.1	439.8	490.9	534.9	554.4	573.9	605.2	629.4	643.7	649.8	643.7
122.5°	377.7	433.2	482.1	521.1	537.6	554.1	579.4	599.2	610.7	616.8	610.7
125°	372.7	425.5	472.8	510.7	525.8	540.9	562.9	578.9	589.3	592.6	589.3
127.5°	366.1	416.7	462.3	500.2	514.5	528.8	550.8	565.1	573.9	577.2	573.9
130°	360.1	405.7	449.1	486.5	501.0	515.6	538.2	551.9	560.7	564.0	560.7
132.5°	354.6	394.1	434.3	470.6	485.2	499.7	521.7	537.6	545.9	549.2	545.9
135°	349.1	383.7	419.4	453.0	466.8	480.5	502.4	517.8	526.6	529.9	526.6
137.5°	344.1	373.8	405.1	434.3	447.0	459.6	480.5	496.4	503.5	507.4	503.5
140°	340.3	365.6	391.4	416.1	427.6	439.2	458.5	470.6	478.3	482.7	478.3
142.5°	337.0	357.9	379.9	400.2	409.8	419.4	435.9	446.9	453.5	456.3	453.5
145°	333.1	350.7	369.4	385.9	393.6	401.3	415.0	424.4	429.9	432.6	429.9
147.5°	329.8	344.7	360.1	373.8	380.2	386.5	396.9	405.1	409.5	410.6	409.5
150°	326.0	339.2	351.8	362.8	367.8	372.7	381.5	388.7	391.9	392.5	391.9
152.5°	321.6	333.1	343.6	353.5	357.4	361.2	368.3	373.8	375.5	376.0	375.5
155°	317.2	327.1	335.9	344.1	347.4	350.7	356.2	360.6	362.3	362.3	362.3
157.5°	312.8	320.5	328.2	335.3	338.0	340.8	345.2	348.5	349.6	349.6	349.6
160°	307.8	314.4	320.5	326.5	328.7	330.9	334.2	337.5	338.1	338.1	338.1
162.5°	303.4	308.4	313.3	317.7	319.6	321.6	323.8	327.1	327.6	327.1	327.6
165°	298.5	302.9	306.2	310.0	311.4	312.8	315.0	317.2	316.6	316.1	316.6
167.5°	294.1	297.4	300.1	303.4	304.2	305.1	306.2	307.8	307.8	307.3	307.8
170°	289.7	292.4	294.1	296.3	297.1	297.9	299.0	299.6	299.0	299.0	299.0
172.5°	285.9	288.1	289.2	290.3	290.8	291.4	291.9	292.4	291.9	290.8	291.9
175°	283.1	284.2	284.8	285.9	285.9	285.9	285.9	287.0	285.9	284.8	285.9
177.5°	280.9	281.5	282.0	282.0	282.3	282.6	282.0	282.6	281.5	280.4	281.5
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	577.0	575.7	573.9	573.9	571.7	571.7	568.1	561.9	556.6	554.8	555.7
5°	626.2	626.6	624.0	621.8	617.8	614.7	608.9	597.8	594.3	587.2	582.3
7.5°	682.5	680.7	675.8	672.3	671.4	664.3	651.9	638.6	628.0	620.9	610.7
10°	745.8	738.7	731.7	729.4	724.1	712.2	698.0	683.4	668.7	653.2	635.9
12.5°	799.0	785.3	784.8	779.5	769.3	762.7	745.8	725.0	699.7	682.5	663.0
15°	856.2	843.3	832.7	822.9	818.1	798.6	784.4	758.2	728.1	709.5	696.2
17.5°	897.0	891.2	873.0	868.6	861.9	839.3	816.7	791.0	764.9	738.7	702.9
20°	929.7	926.2	914.2	908.0	897.4	879.7	852.2	822.5	792.4	755.1	721.5
22.5°	943.9	939.5	929.7	924.4	917.8	902.7	879.2	845.5	806.1	772.9	737.0
25°	916.0	924.0	921.3	919.1	916.5	907.6	889.9	860.2	821.6	783.9	739.2
27.5°	853.1	866.8	880.1	881.9	886.3	889.9	882.8	861.5	829.2	789.3	740.1
30°	768.4	774.6	801.7	809.7	815.9	838.5	851.8	846.4	821.6	785.7	740.5
32.5°	659.9	676.3	703.7	722.8	739.6	764.9	799.5	813.2	804.3	775.1	730.3
35°	557.1	576.6	608.5	632.8	649.7	685.6	726.3	756.0	767.1	752.5	712.6
37.5°	472.9	496.3	524.7	534.0	553.5	597.8	654.1	695.3	722.3	723.7	692.7
40°	409.5	421.4	444.0	458.2	477.3	514.5	569.5	624.0	664.7	678.5	662.1
42.5°	355.9	365.2	382.0	399.3	416.6	444.9	495.5	546.4	601.4	628.8	628.4
45°	313.3	323.1	334.6	348.8	360.7	391.3	431.2	483.5	530.9	573.4	584.1
47.5°	276.1	284.5	298.7	304.9	312.9	341.7	376.2	425.0	474.2	522.9	535.3
50°	248.6	255.7	265.5	269.4	278.3	299.6	327.9	367.4	421.9	466.6	489.7
52.5°	223.8	229.1	236.6	239.7	246.0	261.9	287.6	318.6	363.8	409.9	442.3
55°	202.5	206.1	211.4	214.9	219.4	233.5	252.6	280.5	319.5	359.4	390.9
57.5°	182.6	185.2	190.6	192.3	195.9	207.0	220.3	243.7	279.6	315.1	345.7
60°	164.0	165.7	168.8	172.8	175.5	183.0	195.4	214.9	243.7	276.1	300.9
62.5°	146.2	148.9	149.8	151.6	153.8	160.9	170.6	184.8	210.1	236.6	262.8
65°	128.1	130.3	132.1	132.5	134.7	140.0	148.9	161.3	177.7	200.8	225.1
67.5°	111.2	112.6	113.4	115.2	117.4	120.1	127.2	136.5	151.6	170.2	189.7
70°	95.7	95.7	97.1	97.5	100.2	103.3	106.4	115.2	128.5	143.6	156.9
72.5°	78.9	81.1	80.7	82.9	82.4	84.6	88.6	94.4	104.1	116.1	129.0
75°	64.3	65.6	65.6	65.6	66.5	68.2	70.5	75.8	83.3	93.1	100.6
77.5°	50.1	51.0	51.0	51.0	51.4	53.2	55.4	58.9	64.3	70.0	74.5
80°	35.9	36.8	36.8	37.7	37.7	38.1	40.3	42.1	44.8	49.2	53.6
82.5°	24.4	24.8	25.7	25.7	25.3	26.1	26.6	28.4	31.0	31.9	35.0
85°	13.3	13.7	14.2	14.2	14.6	15.5	15.1	16.8	16.8	18.6	19.5
87.5°	5.3	6.2	6.2	5.8	6.2	6.2	6.2	7.1	7.5	8.0	7.5
90°	12.1	11.5	11.0	11.0	11.0	10.4	9.9	9.3	9.9	8.8	7.7
92.5°	52.2	56.1	64.3	71.2	78.1	98.9	132.5	179.2	215.5	188.6	136.9
95°	151.2	168.2	195.1	221.8	248.5	322.1	407.3	460.7	448.0	338.1	206.7
97.5°	351.8	384.8	422.2	453.0	483.8	544.2	586.5	577.8	479.4	323.8	188.6
100°	525.0	558.5	606.3	626.6	647.0	674.0	663.0	582.7	442.0	287.0	174.8
102.5°	683.3	705.3	730.0	735.5	741.0	724.5	659.1	541.5	395.2	262.2	171.0
105°	784.4	788.8	787.7	776.4	765.2	710.8	615.7	489.8	360.6	250.1	173.2
107.5°	821.3	811.4	787.2	764.1	741.0	665.2	562.4	447.5	338.1	246.8	179.8
110°	812.5	789.4	750.4	720.2	689.9	610.2	515.1	417.2	327.6	247.9	187.5

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	771.3	742.1	696.5	666.2	636.0	561.8	480.5	400.2	322.7	251.2	195.7
115°	720.7	687.7	644.3	617.9	591.5	527.2	459.6	390.8	321.6	255.6	204.5
117.5°	670.1	641.5	603.0	580.0	556.9	504.6	447.5	385.9	321.0	260.0	213.3
120°	629.4	605.2	573.9	554.4	534.9	490.9	439.8	382.1	321.0	265.0	222.6
122.5°	599.2	579.4	554.1	537.6	521.1	482.1	433.2	377.7	320.5	269.9	231.4
125°	578.9	562.9	540.9	525.8	510.7	472.8	425.5	372.7	319.9	274.9	240.2
127.5°	565.1	550.8	528.8	514.5	500.2	462.3	416.7	366.1	318.8	278.7	247.9
130°	551.9	538.2	515.6	501.0	486.5	449.1	405.7	360.1	318.3	283.1	255.1
132.5°	537.6	521.7	499.7	485.2	470.6	434.3	394.1	354.6	317.7	287.0	262.2
135°	517.8	502.4	480.5	466.8	453.0	419.4	383.7	349.1	317.2	290.8	268.3
137.5°	496.4	480.5	459.6	447.0	434.3	405.1	373.8	344.1	317.2	293.0	272.7
140°	470.6	458.5	439.2	427.6	416.1	391.4	365.6	340.3	316.6	295.7	277.1
142.5°	446.9	435.9	419.4	409.8	400.2	379.9	357.9	337.0	316.6	297.9	280.4
145°	424.4	415.0	401.3	393.6	385.9	369.4	350.7	333.1	315.5	298.5	282.6
147.5°	405.1	396.9	386.5	380.2	373.8	360.1	344.7	329.8	313.9	299.0	284.8
150°	388.7	381.5	372.7	367.8	362.8	351.8	339.2	326.0	312.2	299.0	286.4
152.5°	373.8	368.3	361.2	357.4	353.5	343.6	333.1	321.6	309.5	297.9	287.5
155°	360.6	356.2	350.7	347.4	344.1	335.9	327.1	317.2	306.7	296.8	288.1
157.5°	348.5	345.2	340.8	338.0	335.3	328.2	320.5	312.8	304.0	295.7	288.1
160°	337.5	334.2	330.9	328.7	326.5	320.5	314.4	307.8	300.7	294.1	288.1
162.5°	327.1	323.8	321.6	319.6	317.7	313.3	308.4	303.4	297.4	292.4	288.1
165°	317.2	315.0	312.8	311.4	310.0	306.2	302.9	298.5	294.1	290.3	287.0
167.5°	307.8	306.2	305.1	304.2	303.4	300.1	297.4	294.1	290.8	288.1	285.9
170°	299.6	299.0	297.9	297.1	296.3	294.1	292.4	289.7	287.5	285.9	284.8
172.5°	292.4	291.9	291.4	290.8	290.3	289.2	288.1	285.9	284.2	283.7	283.7
175°	287.0	285.9	285.9	285.9	285.9	284.8	284.2	283.1	282.0	282.0	282.6
177.5°	282.6	282.0	282.6	282.3	282.0	282.0	281.5	280.9	280.4	280.4	281.5
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	551.7	550.0	548.6	548.6	544.6	540.7	538.4	537.6	536.7	533.1	528.2
5°	574.3	568.6	564.6	560.6	553.9	546.9	539.8	535.8	530.0	522.0	516.3
7.5°	599.6	585.9	581.4	576.6	563.3	551.3	541.5	533.1	523.8	513.6	503.4
10°	620.9	606.2	596.5	588.1	570.8	554.8	540.2	527.8	515.8	502.5	490.1
12.5°	641.3	620.4	610.2	597.8	579.7	556.6	537.6	522.0	504.3	490.6	475.5
15°	669.6	634.6	617.8	609.8	585.4	558.4	535.3	512.3	497.7	476.8	463.5
17.5°	674.0	645.7	634.6	614.2	585.0	554.4	527.8	504.8	482.6	464.0	446.7
20°	689.6	652.3	634.6	621.8	583.2	552.2	522.9	493.2	472.0	452.0	432.5
22.5°	699.3	657.2	638.6	618.2	581.4	544.2	509.6	483.9	457.8	437.4	421.9
25°	696.6	654.5	633.7	614.7	569.9	532.7	501.7	468.9	444.5	422.3	401.9
27.5°	695.3	647.9	625.7	604.5	562.4	523.4	484.4	457.8	430.8	405.0	390.0
30°	691.8	639.5	613.8	590.7	546.9	506.1	472.9	441.8	414.8	391.3	371.4
32.5°	679.8	625.3	600.5	575.7	530.0	489.2	455.6	426.8	399.7	375.4	356.3
35°	663.9	608.5	581.4	555.3	509.6	468.4	437.4	407.3	382.0	358.5	340.3
37.5°	647.9	589.0	563.7	533.6	491.5	448.5	416.6	389.5	366.0	341.7	321.7
40°	624.9	565.9	538.0	512.3	463.1	422.8	393.5	369.2	346.1	323.1	306.2
42.5°	593.4	540.7	511.8	483.5	437.4	397.5	369.2	347.4	325.7	306.7	288.1
45°	561.5	510.1	484.4	459.1	409.0	371.4	345.2	325.3	307.1	286.3	271.2
47.5°	522.9	479.5	453.8	429.0	381.6	343.9	320.0	301.3	284.5	267.2	253.0
50°	483.5	445.8	422.3	396.6	351.4	317.3	293.8	278.3	264.6	248.2	236.6
52.5°	440.9	408.1	388.2	363.4	323.5	292.0	268.1	252.6	241.1	229.1	218.9
55°	395.7	371.8	350.5	330.6	292.9	264.6	243.3	229.6	221.6	210.5	201.6
57.5°	355.0	331.9	319.1	296.5	263.7	235.8	218.9	207.4	198.1	191.4	184.4
60°	312.4	293.8	279.6	263.2	234.4	210.9	193.2	186.6	176.8	171.9	168.8
62.5°	271.7	258.4	245.1	232.7	207.0	184.8	171.5	163.1	157.3	152.4	149.8
65°	233.1	220.7	211.4	200.3	179.0	161.3	148.9	142.3	136.5	135.2	132.1
67.5°	195.4	190.1	179.9	171.1	152.9	139.2	129.8	121.4	118.3	117.0	114.3
70°	163.5	157.3	149.3	141.8	128.1	116.1	107.7	104.6	100.2	99.7	96.6
72.5°	134.7	127.2	121.4	115.7	105.5	94.8	90.4	86.0	83.8	82.0	80.7
75°	106.8	101.5	97.5	92.6	83.8	76.7	70.5	68.7	67.4	66.9	66.0
77.5°	79.8	76.2	74.5	69.6	63.4	57.2	54.5	51.8	51.8	51.0	51.4
80°	56.7	54.5	52.3	49.6	44.3	41.7	39.4	37.7	36.8	36.3	36.8
82.5°	35.9	34.6	34.1	32.4	28.8	27.5	25.7	24.4	24.4	24.4	24.4
85°	19.9	19.9	19.9	17.3	16.0	14.6	13.7	13.3	13.3	13.3	13.7
87.5°	8.4	8.4	7.1	7.1	6.6	5.8	5.3	5.3	5.8	5.8	6.2
90°	7.7	4.4	4.4	4.4	3.8	3.3	1.6	0.5	1.6	3.3	3.8
92.5°	83.6	49.5	42.4	35.2	25.3	17.0	11.0	7.7	11.0	17.0	25.3
95°	116.5	68.7	57.2	45.6	32.4	25.3	19.8	18.1	19.8	25.3	32.4
97.5°	111.0	73.1	63.2	53.3	41.8	35.2	30.2	30.2	30.2	35.2	41.8
100°	112.7	80.3	71.5	62.7	52.2	45.6	41.8	41.8	41.8	45.6	52.2
102.5°	118.2	89.6	81.4	73.1	63.2	57.2	53.9	52.8	53.9	57.2	63.2
105°	127.5	101.1	93.2	85.2	75.3	68.7	66.0	64.3	66.0	68.7	75.3
107.5°	137.4	113.2	105.2	97.3	88.0	80.8	78.1	77.0	78.1	80.8	88.0
110°	149.0	124.8	117.4	109.9	100.0	93.5	90.7	89.6	90.7	93.5	100.0

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	160.0	136.9	129.4	122.0	112.1	106.1	102.8	101.7	102.8	106.1	112.1
115°	171.5	149.5	142.1	134.7	124.2	118.7	114.9	113.2	114.9	118.7	124.2
117.5°	182.5	161.6	153.9	146.2	136.3	130.3	127.0	125.3	127.0	130.3	136.3
120°	194.1	173.2	165.5	157.8	148.4	142.4	138.5	137.4	138.5	142.4	148.4
122.5°	205.0	184.2	176.8	169.3	158.9	153.4	149.5	148.4	149.5	153.4	158.9
125°	214.9	195.1	187.4	179.8	169.3	163.3	160.0	157.8	160.0	163.3	169.3
127.5°	224.3	205.0	197.4	189.7	178.7	172.1	168.2	166.6	168.2	172.1	178.7
130°	233.6	214.9	207.0	199.0	188.6	180.3	175.9	173.7	175.9	180.3	188.6
132.5°	241.3	222.6	215.2	207.8	196.2	188.6	182.5	180.9	182.5	188.6	196.2
135°	248.5	230.3	223.2	216.0	204.5	195.1	189.7	187.5	189.7	195.1	204.5
137.5°	254.0	236.9	230.0	223.2	211.1	202.3	196.2	194.1	196.2	202.3	211.1
140°	259.5	243.0	236.4	229.8	218.2	208.9	202.8	201.2	202.8	208.9	218.2
142.5°	264.4	248.5	242.2	235.8	224.8	216.0	210.5	208.9	210.5	216.0	224.8
145°	267.7	253.4	247.4	241.3	230.9	223.2	217.7	216.0	217.7	223.2	230.9
147.5°	271.6	257.8	252.3	246.8	238.0	229.8	224.8	224.3	224.8	229.8	238.0
150°	274.3	262.2	257.0	251.8	243.5	236.9	232.5	232.0	232.5	236.9	243.5
152.5°	276.5	266.1	261.4	256.7	249.6	243.5	239.1	239.1	239.1	243.5	249.6
155°	278.7	269.4	265.2	261.1	255.1	249.6	246.3	245.7	246.3	249.6	255.1
157.5°	280.4	272.1	268.8	265.5	260.0	255.6	252.3	252.3	252.3	255.6	260.0
160°	281.5	274.9	271.8	268.8	264.4	260.6	258.4	258.4	258.4	260.6	264.4
162.5°	282.6	276.5	274.3	272.1	268.3	265.0	263.3	263.9	263.3	265.0	268.3
165°	282.6	277.6	276.0	274.3	271.6	268.8	267.7	267.7	267.7	268.8	271.6
167.5°	282.6	278.7	277.4	276.0	274.3	272.1	271.6	272.1	271.6	272.1	274.3
170°	282.0	279.3	278.5	277.6	276.5	274.9	274.3	274.9	274.3	274.9	276.5
172.5°	281.5	279.8	279.2	278.7	278.2	277.1	277.1	277.6	277.1	277.1	278.2
175°	280.9	279.8	279.8	279.8	279.3	278.7	278.7	279.3	278.7	278.7	279.3
177.5°	280.4	279.8	279.8	279.8	279.8	279.3	279.8	280.4	279.8	279.3	279.8
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	526.9	525.1	526.0	521.6	517.6	511.8	507.0	506.1	505.2	507.9	506.1
5°	511.8	509.6	507.4	502.1	494.1	489.2	482.2	481.7	479.1	475.1	476.0
7.5°	495.5	494.1	491.0	482.6	475.5	467.1	461.3	456.5	454.2	450.7	449.4
10°	482.2	477.3	474.6	465.3	456.9	448.0	440.5	437.0	433.0	429.9	427.6
12.5°	464.0	462.7	455.1	447.6	440.5	430.3	424.5	414.4	409.0	411.7	410.8
15°	452.0	445.8	444.0	433.4	421.4	414.8	404.2	397.5	395.3	391.3	386.4
17.5°	436.1	432.1	425.9	416.1	402.4	393.1	385.5	379.3	376.7	371.4	367.4
20°	421.0	414.4	409.5	400.6	387.3	375.4	366.0	362.1	355.4	351.0	348.8
22.5°	407.3	402.4	395.3	382.0	370.5	359.0	347.9	342.1	335.9	333.3	329.7
25°	390.4	382.4	377.6	362.9	350.5	341.2	331.0	323.5	320.0	315.5	314.6
27.5°	374.0	366.5	360.7	347.9	332.8	320.8	314.6	309.3	303.1	303.1	300.9
30°	357.6	352.3	343.4	331.0	316.9	305.3	298.2	293.4	291.2	289.4	288.9
32.5°	341.2	334.1	328.8	312.0	301.3	290.7	285.4	281.4	278.7	278.3	278.7
35°	324.4	316.4	311.1	296.0	285.4	275.6	273.4	269.9	268.6	268.1	270.3
37.5°	306.7	300.5	293.8	281.4	269.4	263.7	259.2	257.9	257.5	260.1	261.0
40°	290.3	285.0	278.7	265.5	256.6	250.4	248.2	246.8	248.6	251.3	252.6
42.5°	274.8	267.2	262.4	250.4	242.4	238.9	236.2	236.2	238.0	241.1	243.3
45°	258.4	252.6	247.7	237.1	230.0	226.0	225.6	226.0	228.2	230.4	233.1
47.5°	242.4	236.6	231.3	222.5	216.3	214.0	213.6	214.0	217.6	220.7	223.8
50°	227.8	221.6	216.7	208.3	203.4	200.8	201.2	203.4	206.1	210.5	214.5
52.5°	210.5	206.1	201.6	194.1	189.7	187.9	189.2	191.0	195.9	199.0	203.9
55°	193.7	189.7	186.1	180.4	176.8	175.5	176.4	179.0	183.0	188.3	194.1
57.5°	178.2	173.7	170.2	166.2	162.2	162.6	163.1	166.6	171.5	176.4	183.0
60°	160.9	158.2	155.1	150.2	148.5	148.5	149.8	153.8	158.2	166.2	171.9
62.5°	145.4	141.8	139.6	136.5	133.8	134.3	137.4	140.9	146.2	152.9	160.4
65°	129.4	125.4	123.6	121.0	120.1	120.5	122.8	128.1	133.8	139.6	146.7
67.5°	111.7	110.3	108.6	105.9	106.8	107.2	109.5	113.9	120.1	125.9	133.8
70°	96.6	93.9	93.5	91.3	91.3	92.6	97.1	100.2	105.9	112.1	120.5
72.5°	80.7	78.4	78.4	76.7	78.0	79.3	81.5	86.0	91.3	97.5	104.6
75°	64.3	63.4	64.3	63.4	63.4	65.6	68.2	71.8	77.6	84.2	90.0
77.5°	49.6	49.6	49.2	50.5	50.5	51.8	55.4	58.9	63.4	68.7	74.9
80°	36.3	36.3	36.3	37.7	39.0	39.0	41.2	45.6	49.6	53.2	58.9
82.5°	24.8	24.8	24.8	25.7	27.5	27.5	30.1	32.8	37.2	40.3	43.0
85°	15.1	15.1	14.6	15.5	16.0	17.3	19.5	21.3	23.5	26.1	28.8
87.5°	6.6	6.6	7.1	7.5	8.0	8.9	9.7	10.6	12.9	13.7	15.1
90°	4.4	4.4	4.4	7.7	7.7	8.8	9.9	9.3	9.9	10.4	11.0
92.5°	35.2	42.4	49.5	83.6	136.9	188.6	215.5	179.2	132.5	98.9	78.1
95°	45.6	57.2	68.7	116.5	206.7	338.1	448.0	460.7	407.3	322.1	248.5
97.5°	53.3	63.2	73.1	111.0	188.6	323.8	479.4	577.8	586.5	544.2	483.8
100°	62.7	71.5	80.3	112.7	174.8	287.0	442.0	582.7	663.0	674.0	647.0
102.5°	73.1	81.4	89.6	118.2	171.0	262.2	395.2	541.5	659.1	724.5	741.0
105°	85.2	93.2	101.1	127.5	173.2	250.1	360.6	489.8	615.7	710.8	765.2
107.5°	97.3	105.2	113.2	137.4	179.8	246.8	338.1	447.5	562.4	665.2	741.0
110°	109.9	117.4	124.8	149.0	187.5	247.9	327.6	417.2	515.1	610.2	689.9

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	122.0	129.4	136.9	160.0	195.7	251.2	322.7	400.2	480.5	561.8	636.0
115°	134.7	142.1	149.5	171.5	204.5	255.6	321.6	390.8	459.6	527.2	591.5
117.5°	146.2	153.9	161.6	182.5	213.3	260.0	321.0	385.9	447.5	504.6	556.9
120°	157.8	165.5	173.2	194.1	222.6	265.0	321.0	382.1	439.8	490.9	534.9
122.5°	169.3	176.8	184.2	205.0	231.4	269.9	320.5	377.7	433.2	482.1	521.1
125°	179.8	187.4	195.1	214.9	240.2	274.9	319.9	372.7	425.5	472.8	510.7
127.5°	189.7	197.4	205.0	224.3	247.9	278.7	318.8	366.1	416.7	462.3	500.2
130°	199.0	207.0	214.9	233.6	255.1	283.1	318.3	360.1	405.7	449.1	486.5
132.5°	207.8	215.2	222.6	241.3	262.2	287.0	317.7	354.6	394.1	434.3	470.6
135°	216.0	223.2	230.3	248.5	268.3	290.8	317.2	349.1	383.7	419.4	453.0
137.5°	223.2	230.0	236.9	254.0	272.7	293.0	317.2	344.1	373.8	405.1	434.3
140°	229.8	236.4	243.0	259.5	277.1	295.7	316.6	340.3	365.6	391.4	416.1
142.5°	235.8	242.2	248.5	264.4	280.4	297.9	316.6	337.0	357.9	379.9	400.2
145°	241.3	247.4	253.4	267.7	282.6	298.5	315.5	333.1	350.7	369.4	385.9
147.5°	246.8	252.3	257.8	271.6	284.8	299.0	313.9	329.8	344.7	360.1	373.8
150°	251.8	257.0	262.2	274.3	286.4	299.0	312.2	326.0	339.2	351.8	362.8
152.5°	256.7	261.4	266.1	276.5	287.5	297.9	309.5	321.6	333.1	343.6	353.5
155°	261.1	265.2	269.4	278.7	288.1	296.8	306.7	317.2	327.1	335.9	344.1
157.5°	265.5	268.8	272.1	280.4	288.1	295.7	304.0	312.8	320.5	328.2	335.3
160°	268.8	271.8	274.9	281.5	288.1	294.1	300.7	307.8	314.4	320.5	326.5
162.5°	272.1	274.3	276.5	282.6	288.1	292.4	297.4	303.4	308.4	313.3	317.7
165°	274.3	276.0	277.6	282.6	287.0	290.3	294.1	298.5	302.9	306.2	310.0
167.5°	276.0	277.4	278.7	282.6	285.9	288.1	290.8	294.1	297.4	300.1	303.4
170°	277.6	278.5	279.3	282.0	284.8	285.9	287.5	289.7	292.4	294.1	296.3
172.5°	278.7	279.2	279.8	281.5	283.7	283.7	284.2	285.9	288.1	289.2	290.3
175°	279.8	279.8	279.8	280.9	282.6	282.0	282.0	283.1	284.2	284.8	285.9
177.5°	279.8	279.8	279.8	280.4	281.5	280.4	280.4	280.9	281.5	282.0	282.0
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	504.8	504.3	502.1	503.0	500.3	501.2	502.5	503.0	504.8	503.4	503.0
5°	473.7	472.9	471.5	470.2	469.7	471.5	468.4	469.3	470.2	471.5	473.3
7.5°	448.5	448.0	446.7	444.5	443.6	442.7	443.2	446.3	445.8	445.4	448.5
10°	425.4	425.9	423.2	422.8	420.1	419.7	420.1	421.0	422.3	424.1	424.5
12.5°	401.5	407.3	402.4	400.6	396.6	398.8	399.7	395.7	398.0	399.3	405.9
15°	386.4	383.8	380.7	380.7	378.9	378.0	375.8	378.9	380.7	383.3	382.4
17.5°	365.6	361.2	359.4	357.6	358.1	359.8	355.0	362.1	362.1	363.4	361.2
20°	347.4	343.9	341.7	340.8	339.5	338.6	338.1	339.9	342.6	343.4	345.7
22.5°	328.4	328.4	324.8	323.5	322.6	321.3	323.5	322.2	323.9	325.7	329.3
25°	312.4	312.4	311.1	309.3	308.0	307.1	308.4	308.0	309.3	311.5	312.4
27.5°	299.6	298.2	297.8	297.4	296.9	297.4	296.9	298.2	299.6	300.0	299.1
30°	288.5	287.2	287.6	287.6	288.1	287.6	287.2	288.5	288.9	288.1	288.5
32.5°	278.3	278.3	279.2	279.6	279.6	280.1	280.5	279.6	280.1	278.7	279.2
35°	269.9	270.8	271.7	272.1	272.5	272.1	273.0	272.5	271.7	270.8	270.3
37.5°	261.5	262.4	264.1	264.6	265.9	266.3	265.5	265.5	265.0	263.2	262.4
40°	252.6	253.5	255.7	257.0	257.9	259.2	258.4	258.4	256.6	254.8	253.5
42.5°	244.2	246.0	248.2	249.5	251.3	251.3	251.3	250.4	248.2	246.4	245.1
45°	235.8	236.2	239.3	241.5	243.3	243.3	243.3	242.0	240.6	237.1	235.3
47.5°	226.5	227.8	231.3	233.5	235.3	235.8	235.8	234.4	231.8	228.7	226.5
50°	216.3	218.5	222.5	225.6	227.8	228.7	227.3	226.5	223.4	219.8	217.1
52.5°	206.5	209.2	214.0	216.7	219.8	220.3	219.8	218.5	214.9	210.1	207.8
55°	196.8	199.0	204.3	208.7	211.4	212.3	211.4	209.2	204.7	199.9	197.6
57.5°	186.1	189.2	195.0	199.4	202.5	203.0	202.1	199.9	196.3	190.1	187.0
60°	175.0	179.0	184.8	189.2	193.2	193.7	192.8	189.7	185.2	179.0	176.4
62.5°	164.0	167.1	173.7	178.6	181.7	183.9	182.1	179.0	174.6	168.4	164.4
65°	151.1	155.5	161.3	165.7	169.3	169.7	168.8	166.2	161.3	154.7	151.6
67.5°	138.7	141.8	147.6	153.3	154.7	156.0	154.7	152.0	148.0	142.3	137.8
70°	123.6	126.3	133.4	137.4	139.2	140.5	139.6	136.9	133.4	128.1	124.5
72.5°	108.6	110.8	117.4	120.5	124.1	123.6	123.2	121.4	116.6	113.0	110.8
75°	92.6	95.3	99.7	103.7	105.0	105.0	105.0	103.7	100.6	94.8	92.6
77.5°	78.0	79.3	82.9	85.1	86.4	86.9	86.4	84.2	82.4	78.4	77.1
80°	59.8	63.4	66.0	66.5	68.2	68.2	68.2	67.4	65.6	61.6	61.2
82.5°	45.2	46.1	48.7	50.1	51.0	50.5	50.5	48.7	48.3	46.1	45.2
85°	30.6	31.9	31.5	33.2	33.7	32.8	32.8	33.7	31.5	31.9	30.6
87.5°	16.8	16.8	17.7	17.3	19.1	19.1	18.2	18.6	17.7	17.3	16.8
90°	11.0	11.0	11.5	12.1	11.5	11.5	11.5	12.1	11.5	11.0	11.0
92.5°	71.2	64.3	56.1	52.2	50.0	50.0	50.0	52.2	56.1	64.3	71.2
95°	221.8	195.1	168.2	151.2	141.3	134.1	141.3	151.2	168.2	195.1	221.8
97.5°	453.0	422.2	384.8	351.8	335.3	322.1	335.3	351.8	384.8	422.2	453.0
100°	626.6	606.3	558.5	525.0	508.5	504.1	508.5	525.0	558.5	606.3	626.6
102.5°	735.5	730.0	705.3	683.3	665.7	662.4	665.7	683.3	705.3	730.0	735.5
105°	776.4	787.7	788.8	784.4	776.8	773.5	776.8	784.4	788.8	787.7	776.4
107.5°	764.1	787.2	811.4	821.3	825.7	826.2	825.7	821.3	811.4	787.2	764.1
110°	720.2	750.4	789.4	812.5	822.4	827.3	822.4	812.5	789.4	750.4	720.2

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	666.2	696.5	742.1	771.3	786.1	794.9	786.1	771.3	742.1	696.5	666.2
115°	617.9	644.3	687.7	720.7	738.3	742.7	738.3	720.7	687.7	644.3	617.9
117.5°	580.0	603.0	641.5	670.1	688.8	691.5	688.8	670.1	641.5	603.0	580.0
120°	554.4	573.9	605.2	629.4	643.7	649.8	643.7	629.4	605.2	573.9	554.4
122.5°	537.6	554.1	579.4	599.2	610.7	616.8	610.7	599.2	579.4	554.1	537.6
125°	525.8	540.9	562.9	578.9	589.3	592.6	589.3	578.9	562.9	540.9	525.8
127.5°	514.5	528.8	550.8	565.1	573.9	577.2	573.9	565.1	550.8	528.8	514.5
130°	501.0	515.6	538.2	551.9	560.7	564.0	560.7	551.9	538.2	515.6	501.0
132.5°	485.2	499.7	521.7	537.6	545.9	549.2	545.9	537.6	521.7	499.7	485.2
135°	466.8	480.5	502.4	517.8	526.6	529.9	526.6	517.8	502.4	480.5	466.8
137.5°	447.0	459.6	480.5	496.4	503.5	507.4	503.5	496.4	480.5	459.6	447.0
140°	427.6	439.2	458.5	470.6	478.3	482.7	478.3	470.6	458.5	439.2	427.6
142.5°	409.8	419.4	435.9	446.9	453.5	456.3	453.5	446.9	435.9	419.4	409.8
145°	393.6	401.3	415.0	424.4	429.9	432.6	429.9	424.4	415.0	401.3	393.6
147.5°	380.2	386.5	396.9	405.1	409.5	410.6	409.5	405.1	396.9	386.5	380.2
150°	367.8	372.7	381.5	388.7	391.9	392.5	391.9	388.7	381.5	372.7	367.8
152.5°	357.4	361.2	368.3	373.8	375.5	376.0	375.5	373.8	368.3	361.2	357.4
155°	347.4	350.7	356.2	360.6	362.3	362.3	362.3	360.6	356.2	350.7	347.4
157.5°	338.0	340.8	345.2	348.5	349.6	349.6	349.6	348.5	345.2	340.8	338.0
160°	328.7	330.9	334.2	337.5	338.1	338.1	338.1	337.5	334.2	330.9	328.7
162.5°	319.6	321.6	323.8	327.1	327.6	327.1	327.6	327.1	323.8	321.6	319.6
165°	311.4	312.8	315.0	317.2	316.6	316.1	316.6	317.2	315.0	312.8	311.4
167.5°	304.2	305.1	306.2	307.8	307.8	307.3	307.8	307.8	306.2	305.1	304.2
170°	297.1	297.9	299.0	299.6	299.0	299.0	299.0	299.6	299.0	297.9	297.1
172.5°	290.8	291.4	291.9	292.4	291.9	290.8	291.9	292.4	291.9	291.4	290.8
175°	285.9	285.9	285.9	287.0	285.9	284.8	285.9	287.0	285.9	285.9	285.9
177.5°	282.3	282.6	282.0	282.6	281.5	280.4	281.5	282.6	282.0	282.6	282.3
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	503.0	505.6	503.0	504.8	505.6	507.9	508.7	512.7	514.1	517.2	517.2
5°	472.9	474.2	474.6	476.4	478.2	482.6	485.7	491.5	498.1	499.0	503.0
7.5°	448.5	450.7	454.2	452.9	456.0	462.7	466.6	473.7	480.4	483.9	488.8
10°	426.8	429.4	430.8	432.1	437.8	443.6	449.8	454.7	463.5	468.9	472.9
12.5°	409.0	406.8	409.5	414.4	421.0	424.5	433.0	440.5	447.1	452.9	456.5
15°	386.0	387.8	390.4	398.8	400.6	409.5	412.6	421.0	433.4	438.7	443.2
17.5°	363.8	369.6	374.9	378.0	383.3	390.4	399.3	408.6	416.6	422.8	428.1
20°	346.1	351.9	355.0	357.2	362.5	372.3	380.7	392.2	402.4	407.3	414.4
22.5°	331.9	331.9	336.4	343.0	346.1	355.4	362.5	374.9	386.0	392.2	398.8
25°	314.2	316.9	320.4	326.2	330.6	338.1	348.3	359.0	370.9	376.2	384.7
27.5°	299.6	302.7	307.6	308.9	313.3	320.0	330.6	342.1	354.5	360.3	367.4
30°	288.5	290.3	292.0	294.7	298.7	304.5	313.3	323.5	338.6	343.0	351.9
32.5°	278.7	279.6	280.5	282.7	285.0	290.7	297.8	308.9	321.3	327.9	335.9
35°	269.9	269.0	269.4	270.8	273.0	275.2	282.7	292.0	303.6	311.5	317.7
37.5°	261.5	259.7	259.2	259.2	260.1	262.8	268.6	276.5	288.9	295.6	301.8
40°	252.2	250.4	249.5	249.1	248.6	250.4	254.8	262.8	272.5	278.7	285.8
42.5°	243.3	241.5	239.3	238.9	238.0	238.9	242.0	249.5	257.9	264.1	269.9
45°	234.4	231.3	228.7	226.9	227.3	226.0	228.2	234.0	243.7	247.7	253.5
47.5°	224.7	221.1	217.6	215.8	214.0	214.9	215.8	220.7	229.1	233.1	238.9
50°	215.4	210.5	206.5	204.3	203.0	202.1	203.0	207.8	214.0	217.6	222.5
52.5°	204.7	199.9	195.9	192.3	190.6	189.2	189.7	194.1	199.9	203.4	208.3
55°	195.0	188.8	183.5	179.0	177.7	177.3	176.8	179.9	184.8	188.3	192.3
57.5°	183.9	177.7	171.9	166.6	164.0	163.5	163.5	164.4	170.6	173.3	175.5
60°	172.8	166.2	160.0	155.1	151.1	149.8	149.3	151.1	154.2	156.9	160.0
62.5°	160.4	153.8	146.2	141.8	137.8	134.3	135.6	136.0	140.5	141.8	144.5
65°	148.5	140.9	134.7	127.6	123.2	121.0	120.1	121.0	124.5	125.0	126.7
67.5°	134.7	127.6	120.1	115.2	111.2	107.2	106.4	106.4	108.1	109.5	111.7
70°	121.4	114.3	105.9	100.6	96.6	93.1	91.7	91.3	92.6	93.5	95.7
72.5°	105.9	98.8	92.6	86.9	82.0	79.3	78.0	77.1	78.4	79.3	79.8
75°	89.5	83.8	77.6	71.8	68.7	66.0	64.3	62.9	63.8	63.8	63.8
77.5°	74.0	68.2	63.4	59.4	55.4	52.3	51.0	49.6	50.1	50.1	51.0
80°	57.6	53.6	49.6	46.1	42.5	39.9	39.0	37.7	36.8	36.3	36.3
82.5°	42.5	39.4	35.9	32.8	31.0	28.4	27.5	25.7	25.7	25.3	25.3
85°	28.4	26.6	23.0	20.8	19.5	18.2	17.3	16.4	15.1	15.1	14.6
87.5°	15.1	14.2	13.3	10.6	10.6	9.3	8.9	8.4	7.1	7.5	7.5
90°	11.0	10.4	9.9	9.3	9.9	8.8	7.7	7.7	4.4	4.4	4.4
92.5°	78.1	98.9	132.5	179.2	215.5	188.6	136.9	83.6	49.5	42.4	35.2
95°	248.5	322.1	407.3	460.7	448.0	338.1	206.7	116.5	68.7	57.2	45.6
97.5°	483.8	544.2	586.5	577.8	479.4	323.8	188.6	111.0	73.1	63.2	53.3
100°	647.0	674.0	663.0	582.7	442.0	287.0	174.8	112.7	80.3	71.5	62.7
102.5°	741.0	724.5	659.1	541.5	395.2	262.2	171.0	118.2	89.6	81.4	73.1
105°	765.2	710.8	615.7	489.8	360.6	250.1	173.2	127.5	101.1	93.2	85.2
107.5°	741.0	665.2	562.4	447.5	338.1	246.8	179.8	137.4	113.2	105.2	97.3
110°	689.9	610.2	515.1	417.2	327.6	247.9	187.5	149.0	124.8	117.4	109.9

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	636.0	561.8	480.5	400.2	322.7	251.2	195.7	160.0	136.9	129.4	122.0
115°	591.5	527.2	459.6	390.8	321.6	255.6	204.5	171.5	149.5	142.1	134.7
117.5°	556.9	504.6	447.5	385.9	321.0	260.0	213.3	182.5	161.6	153.9	146.2
120°	534.9	490.9	439.8	382.1	321.0	265.0	222.6	194.1	173.2	165.5	157.8
122.5°	521.1	482.1	433.2	377.7	320.5	269.9	231.4	205.0	184.2	176.8	169.3
125°	510.7	472.8	425.5	372.7	319.9	274.9	240.2	214.9	195.1	187.4	179.8
127.5°	500.2	462.3	416.7	366.1	318.8	278.7	247.9	224.3	205.0	197.4	189.7
130°	486.5	449.1	405.7	360.1	318.3	283.1	255.1	233.6	214.9	207.0	199.0
132.5°	470.6	434.3	394.1	354.6	317.7	287.0	262.2	241.3	222.6	215.2	207.8
135°	453.0	419.4	383.7	349.1	317.2	290.8	268.3	248.5	230.3	223.2	216.0
137.5°	434.3	405.1	373.8	344.1	317.2	293.0	272.7	254.0	236.9	230.0	223.2
140°	416.1	391.4	365.6	340.3	316.6	295.7	277.1	259.5	243.0	236.4	229.8
142.5°	400.2	379.9	357.9	337.0	316.6	297.9	280.4	264.4	248.5	242.2	235.8
145°	385.9	369.4	350.7	333.1	315.5	298.5	282.6	267.7	253.4	247.4	241.3
147.5°	373.8	360.1	344.7	329.8	313.9	299.0	284.8	271.6	257.8	252.3	246.8
150°	362.8	351.8	339.2	326.0	312.2	299.0	286.4	274.3	262.2	257.0	251.8
152.5°	353.5	343.6	333.1	321.6	309.5	297.9	287.5	276.5	266.1	261.4	256.7
155°	344.1	335.9	327.1	317.2	306.7	296.8	288.1	278.7	269.4	265.2	261.1
157.5°	335.3	328.2	320.5	312.8	304.0	295.7	288.1	280.4	272.1	268.8	265.5
160°	326.5	320.5	314.4	307.8	300.7	294.1	288.1	281.5	274.9	271.8	268.8
162.5°	317.7	313.3	308.4	303.4	297.4	292.4	288.1	282.6	276.5	274.3	272.1
165°	310.0	306.2	302.9	298.5	294.1	290.3	287.0	282.6	277.6	276.0	274.3
167.5°	303.4	300.1	297.4	294.1	290.8	288.1	285.9	282.6	278.7	277.4	276.0
170°	296.3	294.1	292.4	289.7	287.5	285.9	284.8	282.0	279.3	278.5	277.6
172.5°	290.3	289.2	288.1	285.9	284.2	283.7	283.7	281.5	279.8	279.2	278.7
175°	285.9	284.8	284.2	283.1	282.0	282.0	282.6	280.9	279.8	279.8	279.8
177.5°	282.0	282.0	281.5	280.9	280.4	280.4	281.5	280.4	279.8	279.8	279.8
180°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	534.9	534.9	534.9	534.9
2.5°	520.3	524.7	528.7	534.9
5°	508.7	515.0	523.4	532.7
7.5°	495.5	505.2	516.3	529.1
10°	483.0	494.1	508.3	523.8
12.5°	470.2	483.5	499.0	515.8
15°	455.6	468.9	486.1	508.7
17.5°	442.3	458.2	476.8	500.8
20°	426.8	441.8	462.2	489.7
22.5°	413.0	430.3	452.9	476.8
25°	398.0	413.0	435.6	464.4
27.5°	382.9	401.5	423.2	451.1
30°	368.3	383.8	407.3	436.5
32.5°	352.3	370.9	392.6	420.1
35°	335.0	352.8	373.1	402.8
37.5°	319.5	336.8	357.6	383.8
40°	302.2	320.4	339.5	365.6
42.5°	285.4	301.8	320.8	344.8
45°	269.0	283.2	300.5	321.3
47.5°	252.2	264.1	280.1	298.7
50°	234.0	246.8	258.8	274.3
52.5°	217.1	228.2	238.0	250.8
55°	200.8	208.3	216.3	226.0
57.5°	183.5	189.2	195.0	205.2
60°	166.2	171.5	174.6	181.3
62.5°	149.3	151.6	155.5	159.5
65°	130.7	133.8	136.0	140.9
67.5°	113.9	115.2	117.4	120.5
70°	96.2	99.3	100.2	102.4
72.5°	81.1	82.4	83.3	83.8
75°	64.3	65.6	66.5	69.1
77.5°	50.5	50.1	51.8	52.3
80°	37.2	35.9	36.3	38.1
82.5°	24.4	24.8	24.4	24.4
85°	15.1	14.6	13.7	14.2
87.5°	6.6	6.6	6.2	6.2
90°	3.8	3.3	1.6	0.5
92.5°	25.3	17.0	11.0	7.7
95°	32.4	25.3	19.8	18.1
97.5°	41.8	35.2	30.2	30.2
100°	52.2	45.6	41.8	41.8
102.5°	63.2	57.2	53.9	52.8
105°	75.3	68.7	66.0	64.3
107.5°	88.0	80.8	78.1	77.0
110°	100.0	93.5	90.7	89.6

TEST NUMBER: P1001333

CATALOG NUMBER: SA4XXDIP-B350D590UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	112.1	106.1	102.8	101.7
115°	124.2	118.7	114.9	113.2
117.5°	136.3	130.3	127.0	125.3
120°	148.4	142.4	138.5	137.4
122.5°	158.9	153.4	149.5	148.4
125°	169.3	163.3	160.0	157.8
127.5°	178.7	172.1	168.2	166.6
130°	188.6	180.3	175.9	173.7
132.5°	196.2	188.6	182.5	180.9
135°	204.5	195.1	189.7	187.5
137.5°	211.1	202.3	196.2	194.1
140°	218.2	208.9	202.8	201.2
142.5°	224.8	216.0	210.5	208.9
145°	230.9	223.2	217.7	216.0
147.5°	238.0	229.8	224.8	224.3
150°	243.5	236.9	232.5	232.0
152.5°	249.6	243.5	239.1	239.1
155°	255.1	249.6	246.3	245.7
157.5°	260.0	255.6	252.3	252.3
160°	264.4	260.6	258.4	258.4
162.5°	268.3	265.0	263.3	263.9
165°	271.6	268.8	267.7	267.7
167.5°	274.3	272.1	271.6	272.1
170°	276.5	274.9	274.3	274.9
172.5°	278.2	277.1	277.1	277.6
175°	279.3	278.7	278.7	279.3
177.5°	279.8	279.3	279.8	280.4
180°	279.8	279.8	279.8	279.8

(END OF REPORT)