

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: P1001216

Luminaire Tested: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001216
REPORT IS A COMBINATION OF REPORTS P995832 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1205UB50-4F0-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

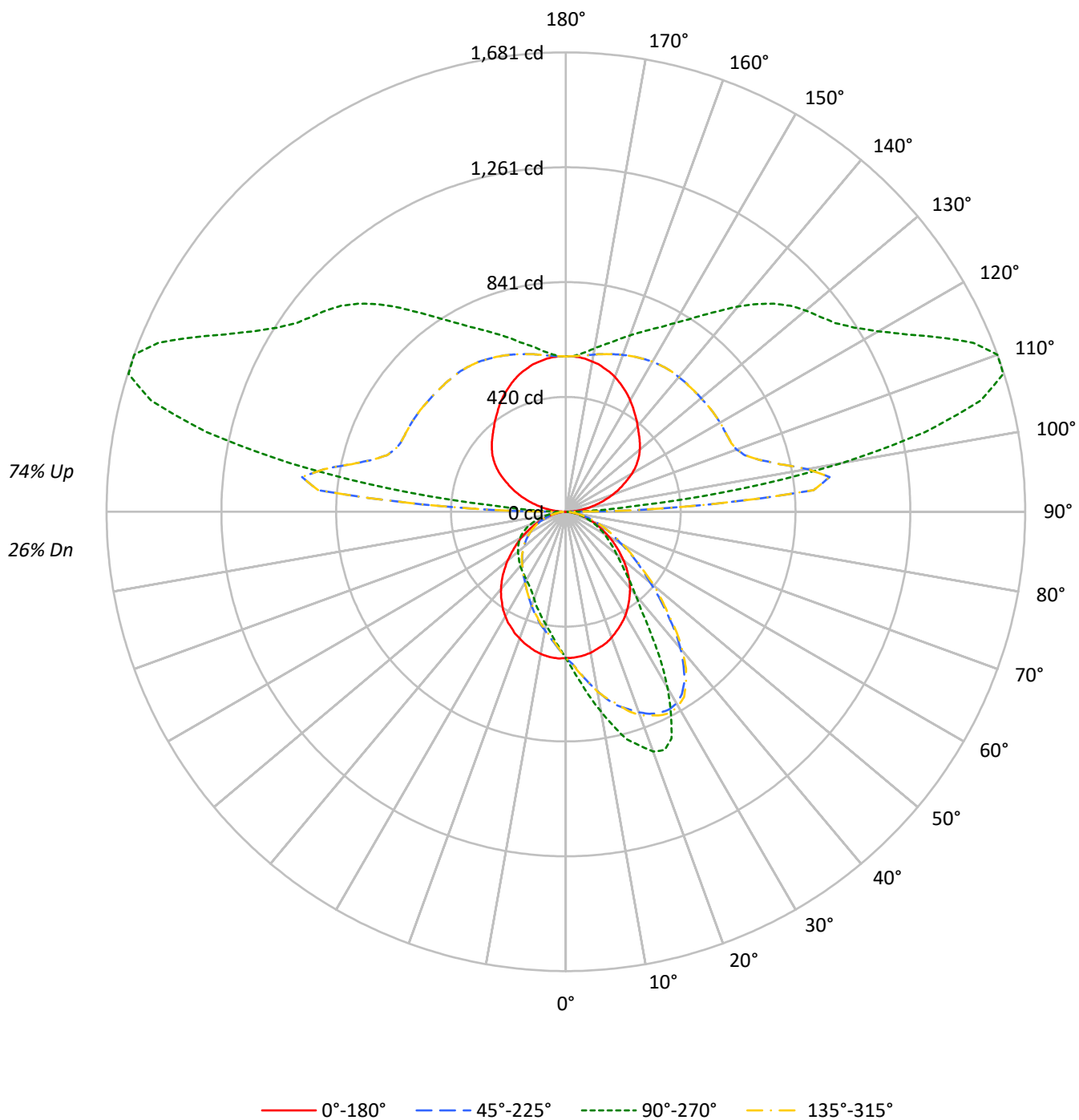
Lumens per Lamp: N/A
Luminaire Lumens: 5618.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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: P1001216

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26		
1	93	88	85	81	82	79	76	73	62	59	58	45	44	43	30	30	29	22		
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19		
3	77	68	61	56	68	61	55	50	48	44	40	35	33	31	24	22	21	16		
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	21	20	18	14		
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16	12		
6	59	48	40	35	53	43	36	32	34	29	26	26	22	20	18	16	14	11		
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	13	10		
8	51	39	32	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9		
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	14	12	10	8		
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7		

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	0.9
10°-20°	160.7	2.9
20°-30°	255.3	4.5
30°-40°	283.6	5.0
40°-50°	257.9	4.6
50°-60°	210.8	3.8
60°-70°	150.5	2.7
70°-80°	82.8	1.5
80°-90°	24.6	0.4
90°-100°	412.0	7.3
100°-110°	860.0	15.3
110°-120°	764.5	13.6
120°-130°	643.5	11.5
130°-140°	536.9	9.6
140°-150°	409.9	7.3
150°-160°	288.2	5.1
160°-170°	169.5	3.0
170°-180°	55.1	1.0
0°-30°	468.0	8.3
0°-40°	751.6	13.4
0°-60°	1220.4	21.7
0°-90°	1478.2	26.3
90°-120°	2036.5	36.2
90°-150°	3626.9	64.6
90°-180°	4140.0	73.7
0°-180°	5618.0	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°	1	24	1	24	1	3
95°	37	272	37	272	37	40
105°	131	1571	131	1571	131	139
115°	230	1509	230	1509	230	228
125°	320	1204	320	1204	320	286
135°	381	1076	381	1076	381	294
145°	439	879	439	879	439	275
155°	499	736	499	736	499	230
165°	544	642	544	642	544	154
175°	567	578	567	578	567	54
180°	568	568	568	568	568	

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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°	1.1	3.4	6.7	7.8	8.9	8.9	8.9	15.6	15.6	17.9	20.1
92.5°	15.6	22.3	34.6	51.4	71.5	86.0	100.5	169.7	278.1	383.0	437.7
95°	36.9	40.2	51.4	65.9	92.7	116.2	139.6	236.7	419.9	686.8	910.1
97.5°	61.4	61.4	71.5	84.9	108.3	128.4	148.5	225.6	383.0	657.7	973.8
100°	84.9	84.9	92.7	106.1	127.3	145.2	163.0	228.9	355.1	582.9	897.8
102.5°	107.2	109.4	116.1	128.4	148.5	165.2	182.0	240.1	347.3	532.7	802.9
105°	130.7	134.0	139.6	153.0	173.1	189.3	205.5	259.1	351.8	508.1	732.5
107.5°	156.3	158.6	164.2	178.7	197.7	213.8	230.0	279.2	365.2	501.4	686.8
110°	182.0	184.3	189.8	203.2	223.3	238.4	253.5	302.6	380.8	503.6	665.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	206.6	208.8	215.5	227.8	247.9	263.0	278.1	325.0	397.5	510.3	655.5
115°	230.0	233.4	241.2	252.4	273.6	288.6	303.7	348.4	415.4	519.3	653.3
117.5°	254.6	258.0	264.7	276.9	297.0	312.6	328.3	370.7	433.3	528.2	652.1
120°	279.2	281.4	289.2	301.5	320.5	336.2	351.8	394.2	452.3	538.2	652.1
122.5°	301.5	303.7	311.6	322.7	343.9	359.0	374.1	416.5	470.1	548.3	651.0
125°	320.5	325.0	331.7	343.9	365.2	380.8	396.4	436.6	488.0	558.3	649.9
127.5°	338.4	341.7	349.5	362.9	385.3	400.9	416.5	455.6	503.6	566.2	647.7
130°	352.9	357.3	366.3	383.0	404.2	420.4	436.6	474.6	518.1	575.1	646.6
132.5°	367.4	370.7	383.0	398.7	422.1	437.2	452.3	490.2	532.7	582.9	645.4
135°	380.8	385.3	396.4	415.4	438.9	453.4	467.9	504.7	544.9	590.7	644.3
137.5°	394.2	398.7	410.9	428.8	453.4	467.4	481.3	515.9	553.9	595.2	644.3
140°	408.7	412.1	424.3	443.3	466.8	480.2	493.6	527.1	562.8	600.8	643.2
142.5°	424.3	427.7	438.9	456.7	479.1	491.9	504.7	537.1	569.5	605.2	643.2
145°	438.9	442.2	453.4	469.0	490.2	502.5	514.8	543.8	574.0	606.4	641.0
147.5°	455.6	456.7	466.8	483.5	501.4	512.6	523.7	551.6	578.4	607.5	637.6
150°	471.2	472.4	481.3	494.7	511.4	522.0	532.7	557.2	581.8	607.5	634.3
152.5°	485.8	485.8	494.7	507.0	521.5	531.0	540.5	561.7	584.0	605.2	628.7
155°	499.2	500.3	507.0	518.1	530.4	538.8	547.2	566.2	585.1	603.0	623.1
157.5°	512.6	512.6	519.3	528.2	539.4	546.1	552.8	569.5	585.1	600.8	617.5
160°	524.8	524.8	529.3	537.1	546.1	552.2	558.3	571.7	585.1	597.4	610.8
162.5°	536.0	534.9	538.2	544.9	552.8	557.2	561.7	574.0	585.1	594.1	604.1
165°	543.8	543.8	546.1	551.6	557.2	560.6	563.9	574.0	582.9	589.6	597.4
167.5°	552.8	551.6	552.8	557.2	560.6	563.4	566.2	574.0	580.7	585.1	590.7
170°	558.3	557.2	558.3	561.7	563.9	565.6	567.3	572.9	578.4	580.7	584.0
172.5°	563.9	562.8	562.8	565.0	566.2	567.3	568.4	571.7	576.2	576.2	577.3
175°	567.3	566.2	566.2	567.3	568.4	568.4	568.4	570.6	574.0	572.9	572.9
177.5°	569.5	568.4	567.3	568.4	568.4	568.4	568.4	569.5	571.7	569.5	569.5
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

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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°	19.0	20.1	21.2	22.3	22.3	22.3	23.5	24.6	23.5	23.5	23.5
92.5°	364.0	269.1	201.0	158.6	144.6	130.7	113.9	106.1	101.6	101.6	101.6
95°	935.8	827.5	654.4	504.7	450.6	396.4	341.7	307.1	287.0	272.5	287.0
97.5°	1173.6	1191.5	1105.5	982.7	920.2	857.6	781.7	714.7	681.2	654.4	681.2
100°	1183.7	1346.7	1369.1	1314.3	1273.0	1231.7	1134.6	1066.4	1032.9	1024.0	1032.9
102.5°	1099.9	1338.9	1471.8	1505.3	1494.2	1483.0	1432.7	1388.0	1352.3	1345.6	1352.3
105°	995.0	1250.7	1443.9	1554.4	1577.3	1600.2	1602.4	1593.5	1577.9	1571.2	1577.9
107.5°	909.0	1142.4	1351.2	1505.3	1552.2	1599.1	1648.2	1668.3	1677.3	1678.4	1677.3
110°	847.6	1046.3	1239.5	1401.4	1462.8	1524.3	1603.6	1650.5	1670.6	1680.6	1670.6

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	812.9	976.0	1141.3	1292.0	1353.4	1414.8	1507.5	1566.7	1596.9	1614.7	1596.9
115°	794.0	933.6	1070.9	1201.6	1255.2	1308.8	1397.0	1464.0	1499.7	1508.6	1499.7
117.5°	783.9	909.0	1025.1	1131.2	1178.1	1225.0	1303.2	1361.2	1399.2	1404.8	1399.2
120°	776.1	893.4	997.2	1086.5	1126.2	1165.8	1229.5	1278.6	1307.6	1319.9	1307.6
122.5°	767.2	880.0	979.3	1058.6	1092.1	1125.6	1177.0	1217.2	1240.6	1252.9	1240.6
125°	757.1	864.3	960.4	1037.4	1068.1	1098.8	1143.5	1175.9	1197.1	1203.8	1197.1
127.5°	743.7	846.5	939.1	1016.2	1045.2	1074.3	1118.9	1148.0	1165.8	1172.5	1165.8
130°	731.4	824.1	912.3	988.3	1017.9	1047.5	1093.2	1121.2	1139.0	1145.7	1139.0
132.5°	720.3	800.7	882.2	955.9	985.5	1015.1	1059.7	1092.1	1108.9	1115.6	1108.9
135°	709.1	779.4	852.0	920.2	948.1	976.0	1020.7	1051.9	1069.8	1076.5	1069.8
137.5°	699.0	759.3	823.0	882.2	907.9	933.6	976.0	1008.4	1022.9	1030.7	1022.9
140°	691.2	742.6	795.1	845.3	868.8	892.2	931.3	955.9	971.5	980.5	971.5
142.5°	684.5	727.0	771.6	812.9	832.4	852.0	885.5	907.9	921.3	926.9	921.3
145°	676.7	712.4	750.4	783.9	799.6	815.2	843.1	862.1	873.3	878.8	873.3
147.5°	670.0	700.2	731.4	759.3	772.2	785.0	806.2	823.0	831.9	834.2	831.9
150°	662.2	689.0	714.7	737.0	747.0	757.1	775.0	789.5	796.2	797.3	796.2
152.5°	653.3	676.7	697.9	718.0	725.8	733.7	748.2	759.3	762.7	763.8	762.7
155°	644.3	664.4	682.3	699.0	705.7	712.4	723.6	732.5	735.9	735.9	735.9
157.5°	635.4	651.0	666.7	681.2	686.8	692.3	701.3	708.0	710.2	710.2	710.2
160°	625.3	638.7	651.0	663.3	667.8	672.2	678.9	685.6	686.8	686.8	686.8
162.5°	616.4	626.5	636.5	645.4	649.3	653.3	657.7	664.4	665.5	664.4	665.5
165°	606.4	615.3	622.0	629.8	632.6	635.4	639.9	644.3	643.2	642.1	643.2
167.5°	597.4	604.1	609.7	616.4	618.1	619.8	622.0	625.3	625.3	624.2	625.3
170°	588.5	594.1	597.4	601.9	603.6	605.2	607.5	608.6	607.5	607.5	607.5
172.5°	580.7	585.1	587.4	589.6	590.7	591.8	593.0	594.1	593.0	590.7	593.0
175°	575.1	577.3	578.4	580.7	580.7	580.7	580.7	582.9	580.7	578.4	580.7
177.5°	570.6	571.7	572.9	572.9	573.4	574.0	572.9	574.0	571.7	569.5	571.7
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-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°	24.6	23.5	22.3	22.3	22.3	21.2	20.1	19.0	20.1	17.9	15.6
92.5°	106.1	113.9	130.7	144.6	158.6	201.0	269.1	364.0	437.7	383.0	278.1
95°	307.1	341.7	396.4	450.6	504.7	654.4	827.5	935.8	910.1	686.8	419.9
97.5°	714.7	781.7	857.6	920.2	982.7	1105.5	1191.5	1173.6	973.8	657.7	383.0
100°	1066.4	1134.6	1231.7	1273.0	1314.3	1369.1	1346.7	1183.7	897.8	582.9	355.1
102.5°	1388.0	1432.7	1483.0	1494.2	1505.3	1471.8	1338.9	1099.9	802.9	532.7	347.3
105°	1593.5	1602.4	1600.2	1577.3	1554.4	1443.9	1250.7	995.0	732.5	508.1	351.8
107.5°	1668.3	1648.2	1599.1	1552.2	1505.3	1351.2	1142.4	909.0	686.8	501.4	365.2
110°	1650.5	1603.6	1524.3	1462.8	1401.4	1239.5	1046.3	847.6	665.5	503.6	380.8

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1566.7	1507.5	1414.8	1353.4	1292.0	1141.3	976.0	812.9	655.5	510.3	397.5
115°	1464.0	1397.0	1308.8	1255.2	1201.6	1070.9	933.6	794.0	653.3	519.3	415.4
117.5°	1361.2	1303.2	1225.0	1178.1	1131.2	1025.1	909.0	783.9	652.1	528.2	433.3
120°	1278.6	1229.5	1165.8	1126.2	1086.5	997.2	893.4	776.1	652.1	538.2	452.3
122.5°	1217.2	1177.0	1125.6	1092.1	1058.6	979.3	880.0	767.2	651.0	548.3	470.1
125°	1175.9	1143.5	1098.8	1068.1	1037.4	960.4	864.3	757.1	649.9	558.3	488.0
127.5°	1148.0	1118.9	1074.3	1045.2	1016.2	939.1	846.5	743.7	647.7	566.2	503.6
130°	1121.2	1093.2	1047.5	1017.9	988.3	912.3	824.1	731.4	646.6	575.1	518.1
132.5°	1092.1	1059.7	1015.1	985.5	955.9	882.2	800.7	720.3	645.4	582.9	532.7
135°	1051.9	1020.7	976.0	948.1	920.2	852.0	779.4	709.1	644.3	590.7	544.9
137.5°	1008.4	976.0	933.6	907.9	882.2	823.0	759.3	699.0	644.3	595.2	553.9
140°	955.9	931.3	892.2	868.8	845.3	795.1	742.6	691.2	643.2	600.8	562.8
142.5°	907.9	885.5	852.0	832.4	812.9	771.6	727.0	684.5	643.2	605.2	569.5
145°	862.1	843.1	815.2	799.6	783.9	750.4	712.4	676.7	641.0	606.4	574.0
147.5°	823.0	806.2	785.0	772.2	759.3	731.4	700.2	670.0	637.6	607.5	578.4
150°	789.5	775.0	757.1	747.0	737.0	714.7	689.0	662.2	634.3	607.5	581.8
152.5°	759.3	748.2	733.7	725.8	718.0	697.9	676.7	653.3	628.7	605.2	584.0
155°	732.5	723.6	712.4	705.7	699.0	682.3	664.4	644.3	623.1	603.0	585.1
157.5°	708.0	701.3	692.3	686.8	681.2	666.7	651.0	635.4	617.5	600.8	585.1
160°	685.6	678.9	672.2	667.8	663.3	651.0	638.7	625.3	610.8	597.4	585.1
162.5°	664.4	657.7	653.3	649.3	645.4	636.5	626.5	616.4	604.1	594.1	585.1
165°	644.3	639.9	635.4	632.6	629.8	622.0	615.3	606.4	597.4	589.6	582.9
167.5°	625.3	622.0	619.8	618.1	616.4	609.7	604.1	597.4	590.7	585.1	580.7
170°	608.6	607.5	605.2	603.6	601.9	597.4	594.1	588.5	584.0	580.7	578.4
172.5°	594.1	593.0	591.8	590.7	589.6	587.4	585.1	580.7	577.3	576.2	576.2
175°	582.9	580.7	580.7	580.7	580.7	578.4	577.3	575.1	572.9	572.9	574.0
177.5°	574.0	572.9	574.0	573.4	572.9	572.9	571.7	570.6	569.5	569.5	571.7
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-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°	15.6	8.9	8.9	8.9	7.8	6.7	3.4	1.1	3.4	6.7	7.8
92.5°	169.7	100.5	86.0	71.5	51.4	34.6	22.3	15.6	22.3	34.6	51.4
95°	236.7	139.6	116.2	92.7	65.9	51.4	40.2	36.9	40.2	51.4	65.9
97.5°	225.6	148.5	128.4	108.3	84.9	71.5	61.4	61.4	61.4	71.5	84.9
100°	228.9	163.0	145.2	127.3	106.1	92.7	84.9	84.9	84.9	92.7	106.1
102.5°	240.1	182.0	165.2	148.5	128.4	116.1	109.4	107.2	109.4	116.1	128.4
105°	259.1	205.5	189.3	173.1	153.0	139.6	134.0	130.7	134.0	139.6	153.0
107.5°	279.2	230.0	213.8	197.7	178.7	164.2	158.6	156.3	158.6	164.2	178.7
110°	302.6	253.5	238.4	223.3	203.2	189.8	184.3	182.0	184.3	189.8	203.2

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	325.0	278.1	263.0	247.9	227.8	215.5	208.8	206.6	208.8	215.5	227.8
115°	348.4	303.7	288.6	273.6	252.4	241.2	233.4	230.0	233.4	241.2	252.4
117.5°	370.7	328.3	312.6	297.0	276.9	264.7	258.0	254.6	258.0	264.7	276.9
120°	394.2	351.8	336.2	320.5	301.5	289.2	281.4	279.2	281.4	289.2	301.5
122.5°	416.5	374.1	359.0	343.9	322.7	311.6	303.7	301.5	303.7	311.6	322.7
125°	436.6	396.4	380.8	365.2	343.9	331.7	325.0	320.5	325.0	331.7	343.9
127.5°	455.6	416.5	400.9	385.3	362.9	349.5	341.7	338.4	341.7	349.5	362.9
130°	474.6	436.6	420.4	404.2	383.0	366.3	357.3	352.9	357.3	366.3	383.0
132.5°	490.2	452.3	437.2	422.1	398.7	383.0	370.7	367.4	370.7	383.0	398.7
135°	504.7	467.9	453.4	438.9	415.4	396.4	385.3	380.8	385.3	396.4	415.4
137.5°	515.9	481.3	467.4	453.4	428.8	410.9	398.7	394.2	398.7	410.9	428.8
140°	527.1	493.6	480.2	466.8	443.3	424.3	412.1	408.7	412.1	424.3	443.3
142.5°	537.1	504.7	491.9	479.1	456.7	438.9	427.7	424.3	427.7	438.9	456.7
145°	543.8	514.8	502.5	490.2	469.0	453.4	442.2	438.9	442.2	453.4	469.0
147.5°	551.6	523.7	512.6	501.4	483.5	466.8	456.7	455.6	456.7	466.8	483.5
150°	557.2	532.7	522.0	511.4	494.7	481.3	472.4	471.2	472.4	481.3	494.7
152.5°	561.7	540.5	531.0	521.5	507.0	494.7	485.8	485.8	485.8	494.7	507.0
155°	566.2	547.2	538.8	530.4	518.1	507.0	500.3	499.2	500.3	507.0	518.1
157.5°	569.5	552.8	546.1	539.4	528.2	519.3	512.6	512.6	512.6	519.3	528.2
160°	571.7	558.3	552.2	546.1	537.1	529.3	524.8	524.8	524.8	529.3	537.1
162.5°	574.0	561.7	557.2	552.8	544.9	538.2	534.9	536.0	534.9	538.2	544.9
165°	574.0	563.9	560.6	557.2	551.6	546.1	543.8	543.8	543.8	546.1	551.6
167.5°	574.0	566.2	563.4	560.6	557.2	552.8	551.6	552.8	551.6	552.8	557.2
170°	572.9	567.3	565.6	563.9	561.7	558.3	557.2	558.3	557.2	558.3	561.7
172.5°	571.7	568.4	567.3	566.2	565.0	562.8	562.8	563.9	562.8	562.8	565.0
175°	570.6	568.4	568.4	568.4	567.3	566.2	566.2	567.3	566.2	566.2	567.3
177.5°	569.5	568.4	568.4	568.4	568.4	567.3	568.4	569.5	568.4	567.3	568.4
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-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°	8.9	8.9	8.9	15.6	15.6	17.9	20.1	19.0	20.1	21.2	22.3
92.5°	71.5	86.0	100.5	169.7	278.1	383.0	437.7	364.0	269.1	201.0	158.6
95°	92.7	116.2	139.6	236.7	419.9	686.8	910.1	935.8	827.5	654.4	504.7
97.5°	108.3	128.4	148.5	225.6	383.0	657.7	973.8	1173.6	1191.5	1105.5	982.7
100°	127.3	145.2	163.0	228.9	355.1	582.9	897.8	1183.7	1346.7	1369.1	1314.3
102.5°	148.5	165.2	182.0	240.1	347.3	532.7	802.9	1099.9	1338.9	1471.8	1505.3
105°	173.1	189.3	205.5	259.1	351.8	508.1	732.5	995.0	1250.7	1443.9	1554.4
107.5°	197.7	213.8	230.0	279.2	365.2	501.4	686.8	909.0	1142.4	1351.2	1505.3
110°	223.3	238.4	253.5	302.6	380.8	503.6	665.5	847.6	1046.3	1239.5	1401.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	247.9	263.0	278.1	325.0	397.5	510.3	655.5	812.9	976.0	1141.3	1292.0
115°	273.6	288.6	303.7	348.4	415.4	519.3	653.3	794.0	933.6	1070.9	1201.6
117.5°	297.0	312.6	328.3	370.7	433.3	528.2	652.1	783.9	909.0	1025.1	1131.2
120°	320.5	336.2	351.8	394.2	452.3	538.2	652.1	776.1	893.4	997.2	1086.5
122.5°	343.9	359.0	374.1	416.5	470.1	548.3	651.0	767.2	880.0	979.3	1058.6
125°	365.2	380.8	396.4	436.6	488.0	558.3	649.9	757.1	864.3	960.4	1037.4
127.5°	385.3	400.9	416.5	455.6	503.6	566.2	647.7	743.7	846.5	939.1	1016.2
130°	404.2	420.4	436.6	474.6	518.1	575.1	646.6	731.4	824.1	912.3	988.3
132.5°	422.1	437.2	452.3	490.2	532.7	582.9	645.4	720.3	800.7	882.2	955.9
135°	438.9	453.4	467.9	504.7	544.9	590.7	644.3	709.1	779.4	852.0	920.2
137.5°	453.4	467.4	481.3	515.9	553.9	595.2	644.3	699.0	759.3	823.0	882.2
140°	466.8	480.2	493.6	527.1	562.8	600.8	643.2	691.2	742.6	795.1	845.3
142.5°	479.1	491.9	504.7	537.1	569.5	605.2	643.2	684.5	727.0	771.6	812.9
145°	490.2	502.5	514.8	543.8	574.0	606.4	641.0	676.7	712.4	750.4	783.9
147.5°	501.4	512.6	523.7	551.6	578.4	607.5	637.6	670.0	700.2	731.4	759.3
150°	511.4	522.0	532.7	557.2	581.8	607.5	634.3	662.2	689.0	714.7	737.0
152.5°	521.5	531.0	540.5	561.7	584.0	605.2	628.7	653.3	676.7	697.9	718.0
155°	530.4	538.8	547.2	566.2	585.1	603.0	623.1	644.3	664.4	682.3	699.0
157.5°	539.4	546.1	552.8	569.5	585.1	600.8	617.5	635.4	651.0	666.7	681.2
160°	546.1	552.2	558.3	571.7	585.1	597.4	610.8	625.3	638.7	651.0	663.3
162.5°	552.8	557.2	561.7	574.0	585.1	594.1	604.1	616.4	626.5	636.5	645.4
165°	557.2	560.6	563.9	574.0	582.9	589.6	597.4	606.4	615.3	622.0	629.8
167.5°	560.6	563.4	566.2	574.0	580.7	585.1	590.7	597.4	604.1	609.7	616.4
170°	563.9	565.6	567.3	572.9	578.4	580.7	584.0	588.5	594.1	597.4	601.9
172.5°	566.2	567.3	568.4	571.7	576.2	576.2	577.3	580.7	585.1	587.4	589.6
175°	568.4	568.4	568.4	570.6	574.0	572.9	572.9	575.1	577.3	578.4	580.7
177.5°	568.4	568.4	568.4	569.5	571.7	569.5	569.5	570.6	571.7	572.9	572.9
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-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°	22.3	22.3	23.5	24.6	23.5	23.5	23.5	24.6	23.5	22.3	22.3
92.5°	144.6	130.7	113.9	106.1	101.6	101.6	101.6	106.1	113.9	130.7	144.6
95°	450.6	396.4	341.7	307.1	287.0	272.5	287.0	307.1	341.7	396.4	450.6
97.5°	920.2	857.6	781.7	714.7	681.2	654.4	681.2	714.7	781.7	857.6	920.2
100°	1273.0	1231.7	1134.6	1066.4	1032.9	1024.0	1032.9	1066.4	1134.6	1231.7	1273.0
102.5°	1494.2	1483.0	1432.7	1388.0	1352.3	1345.6	1352.3	1388.0	1432.7	1483.0	1494.2
105°	1577.3	1600.2	1602.4	1593.5	1577.9	1571.2	1577.9	1593.5	1602.4	1600.2	1577.3
107.5°	1552.2	1599.1	1648.2	1668.3	1677.3	1678.4	1677.3	1668.3	1648.2	1599.1	1552.2
110°	1462.8	1524.3	1603.6	1650.5	1670.6	1680.6	1670.6	1650.5	1603.6	1524.3	1462.8



TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1353.4	1414.8	1507.5	1566.7	1596.9	1614.7	1596.9	1566.7	1507.5	1414.8	1353.4
115°	1255.2	1308.8	1397.0	1464.0	1499.7	1508.6	1499.7	1464.0	1397.0	1308.8	1255.2
117.5°	1178.1	1225.0	1303.2	1361.2	1399.2	1404.8	1399.2	1361.2	1303.2	1225.0	1178.1
120°	1126.2	1165.8	1229.5	1278.6	1307.6	1319.9	1307.6	1278.6	1229.5	1165.8	1126.2
122.5°	1092.1	1125.6	1177.0	1217.2	1240.6	1252.9	1240.6	1217.2	1177.0	1125.6	1092.1
125°	1068.1	1098.8	1143.5	1175.9	1197.1	1203.8	1197.1	1175.9	1143.5	1098.8	1068.1
127.5°	1045.2	1074.3	1118.9	1148.0	1165.8	1172.5	1165.8	1148.0	1118.9	1074.3	1045.2
130°	1017.9	1047.5	1093.2	1121.2	1139.0	1145.7	1139.0	1121.2	1093.2	1047.5	1017.9
132.5°	985.5	1015.1	1059.7	1092.1	1108.9	1115.6	1108.9	1092.1	1059.7	1015.1	985.5
135°	948.1	976.0	1020.7	1051.9	1069.8	1076.5	1069.8	1051.9	1020.7	976.0	948.1
137.5°	907.9	933.6	976.0	1008.4	1022.9	1030.7	1022.9	1008.4	976.0	933.6	907.9
140°	868.8	892.2	931.3	955.9	971.5	980.5	971.5	955.9	931.3	892.2	868.8
142.5°	832.4	852.0	885.5	907.9	921.3	926.9	921.3	907.9	885.5	852.0	832.4
145°	799.6	815.2	843.1	862.1	873.3	878.8	873.3	862.1	843.1	815.2	799.6
147.5°	772.2	785.0	806.2	823.0	831.9	834.2	831.9	823.0	806.2	785.0	772.2
150°	747.0	757.1	775.0	789.5	796.2	797.3	796.2	789.5	775.0	757.1	747.0
152.5°	725.8	733.7	748.2	759.3	762.7	763.8	762.7	759.3	748.2	733.7	725.8
155°	705.7	712.4	723.6	732.5	735.9	735.9	735.9	732.5	723.6	712.4	705.7
157.5°	686.8	692.3	701.3	708.0	710.2	710.2	710.2	708.0	701.3	692.3	686.8
160°	667.8	672.2	678.9	685.6	686.8	686.8	686.8	685.6	678.9	672.2	667.8
162.5°	649.3	653.3	657.7	664.4	665.5	664.4	665.5	664.4	657.7	653.3	649.3
165°	632.6	635.4	639.9	644.3	643.2	642.1	643.2	644.3	639.9	635.4	632.6
167.5°	618.1	619.8	622.0	625.3	625.3	624.2	625.3	625.3	622.0	619.8	618.1
170°	603.6	605.2	607.5	608.6	607.5	607.5	607.5	608.6	607.5	605.2	603.6
172.5°	590.7	591.8	593.0	594.1	593.0	590.7	593.0	594.1	593.0	591.8	590.7
175°	580.7	580.7	580.7	582.9	580.7	578.4	580.7	582.9	580.7	580.7	580.7
177.5°	573.4	574.0	572.9	574.0	571.7	569.5	571.7	574.0	572.9	574.0	573.4
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-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°	22.3	21.2	20.1	19.0	20.1	17.9	15.6	15.6	8.9	8.9	8.9
92.5°	158.6	201.0	269.1	364.0	437.7	383.0	278.1	169.7	100.5	86.0	71.5
95°	504.7	654.4	827.5	935.8	910.1	686.8	419.9	236.7	139.6	116.2	92.7
97.5°	982.7	1105.5	1191.5	1173.6	973.8	657.7	383.0	225.6	148.5	128.4	108.3
100°	1314.3	1369.1	1346.7	1183.7	897.8	582.9	355.1	228.9	163.0	145.2	127.3
102.5°	1505.3	1471.8	1338.9	1099.9	802.9	532.7	347.3	240.1	182.0	165.2	148.5
105°	1554.4	1443.9	1250.7	995.0	732.5	508.1	351.8	259.1	205.5	189.3	173.1
107.5°	1505.3	1351.2	1142.4	909.0	686.8	501.4	365.2	279.2	230.0	213.8	197.7
110°	1401.4	1239.5	1046.3	847.6	665.5	503.6	380.8	302.6	253.5	238.4	223.3

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1292.0	1141.3	976.0	812.9	655.5	510.3	397.5	325.0	278.1	263.0	247.9
115°	1201.6	1070.9	933.6	794.0	653.3	519.3	415.4	348.4	303.7	288.6	273.6
117.5°	1131.2	1025.1	909.0	783.9	652.1	528.2	433.3	370.7	328.3	312.6	297.0
120°	1086.5	997.2	893.4	776.1	652.1	538.2	452.3	394.2	351.8	336.2	320.5
122.5°	1058.6	979.3	880.0	767.2	651.0	548.3	470.1	416.5	374.1	359.0	343.9
125°	1037.4	960.4	864.3	757.1	649.9	558.3	488.0	436.6	396.4	380.8	365.2
127.5°	1016.2	939.1	846.5	743.7	647.7	566.2	503.6	455.6	416.5	400.9	385.3
130°	988.3	912.3	824.1	731.4	646.6	575.1	518.1	474.6	436.6	420.4	404.2
132.5°	955.9	882.2	800.7	720.3	645.4	582.9	532.7	490.2	452.3	437.2	422.1
135°	920.2	852.0	779.4	709.1	644.3	590.7	544.9	504.7	467.9	453.4	438.9
137.5°	882.2	823.0	759.3	699.0	644.3	595.2	553.9	515.9	481.3	467.4	453.4
140°	845.3	795.1	742.6	691.2	643.2	600.8	562.8	527.1	493.6	480.2	466.8
142.5°	812.9	771.6	727.0	684.5	643.2	605.2	569.5	537.1	504.7	491.9	479.1
145°	783.9	750.4	712.4	676.7	641.0	606.4	574.0	543.8	514.8	502.5	490.2
147.5°	759.3	731.4	700.2	670.0	637.6	607.5	578.4	551.6	523.7	512.6	501.4
150°	737.0	714.7	689.0	662.2	634.3	607.5	581.8	557.2	532.7	522.0	511.4
152.5°	718.0	697.9	676.7	653.3	628.7	605.2	584.0	561.7	540.5	531.0	521.5
155°	699.0	682.3	664.4	644.3	623.1	603.0	585.1	566.2	547.2	538.8	530.4
157.5°	681.2	666.7	651.0	635.4	617.5	600.8	585.1	569.5	552.8	546.1	539.4
160°	663.3	651.0	638.7	625.3	610.8	597.4	585.1	571.7	558.3	552.2	546.1
162.5°	645.4	636.5	626.5	616.4	604.1	594.1	585.1	574.0	561.7	557.2	552.8
165°	629.8	622.0	615.3	606.4	597.4	589.6	582.9	574.0	563.9	560.6	557.2
167.5°	616.4	609.7	604.1	597.4	590.7	585.1	580.7	574.0	566.2	563.4	560.6
170°	601.9	597.4	594.1	588.5	584.0	580.7	578.4	572.9	567.3	565.6	563.9
172.5°	589.6	587.4	585.1	580.7	577.3	576.2	576.2	571.7	568.4	567.3	566.2
175°	580.7	578.4	577.3	575.1	572.9	572.9	574.0	570.6	568.4	568.4	568.4
177.5°	572.9	572.9	571.7	570.6	569.5	569.5	571.7	569.5	568.4	568.4	568.4
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-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°	7.8	6.7	3.4	1.1
92.5°	51.4	34.6	22.3	15.6
95°	65.9	51.4	40.2	36.9
97.5°	84.9	71.5	61.4	61.4
100°	106.1	92.7	84.9	84.9
102.5°	128.4	116.1	109.4	107.2
105°	153.0	139.6	134.0	130.7
107.5°	178.7	164.2	158.6	156.3
110°	203.2	189.8	184.3	182.0

TEST NUMBER: P1001216

CATALOG NUMBER: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	227.8	215.5	208.8	206.6
115°	252.4	241.2	233.4	230.0
117.5°	276.9	264.7	258.0	254.6
120°	301.5	289.2	281.4	279.2
122.5°	322.7	311.6	303.7	301.5
125°	343.9	331.7	325.0	320.5
127.5°	362.9	349.5	341.7	338.4
130°	383.0	366.3	357.3	352.9
132.5°	398.7	383.0	370.7	367.4
135°	415.4	396.4	385.3	380.8
137.5°	428.8	410.9	398.7	394.2
140°	443.3	424.3	412.1	408.7
142.5°	456.7	438.9	427.7	424.3
145°	469.0	453.4	442.2	438.9
147.5°	483.5	466.8	456.7	455.6
150°	494.7	481.3	472.4	471.2
152.5°	507.0	494.7	485.8	485.8
155°	518.1	507.0	500.3	499.2
157.5°	528.2	519.3	512.6	512.6
160°	537.1	529.3	524.8	524.8
162.5°	544.9	538.2	534.9	536.0
165°	551.6	546.1	543.8	543.8
167.5°	557.2	552.8	551.6	552.8
170°	561.7	558.3	557.2	558.3
172.5°	565.0	562.8	562.8	563.9
175°	567.3	566.2	566.2	567.3
177.5°	568.4	567.3	568.4	569.5
180°	568.4	568.4	568.4	568.4

(END OF REPORT)