

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: P1001392

Luminaire Tested: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001392
REPORT IS A COMBINATION OF REPORTS P996011 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

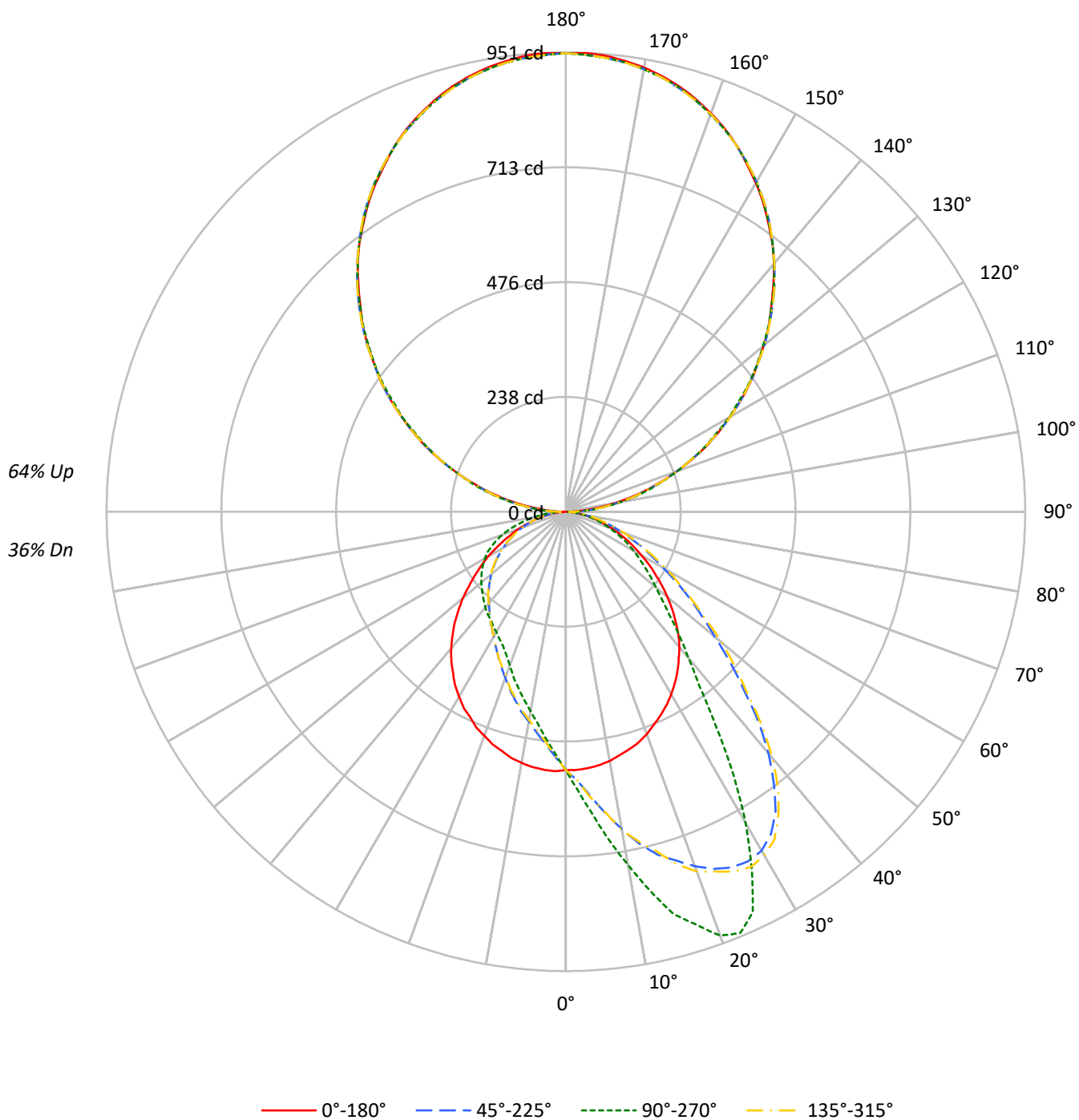
Lumens per Lamp: N/A
Luminaire Lumens: 4112.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31
3	79	70	63	57	71	63	57	53	52	47	44	40	38	35	30	28	27
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12

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	1.3
10°-20°	160.7	3.9
20°-30°	255.3	6.2
30°-40°	283.6	6.9
40°-50°	257.9	6.3
50°-60°	210.8	5.1
60°-70°	150.5	3.7
70°-80°	82.8	2.0
80°-90°	24.4	0.6
90°-100°	61.9	1.5
100°-110°	185.3	4.5
110°-120°	314.8	7.7
120°-130°	415.2	10.1
130°-140°	466.4	11.3
140°-150°	458.4	11.1
150°-160°	385.5	9.4
160°-170°	256.5	6.2
170°-180°	89.8	2.2
0°-30°	468.0	11.4
0°-40°	751.6	18.3
0°-60°	1220.4	29.7
0°-90°	1478.0	35.9
90°-120°	562.1	13.7
90°-150°	1902.1	46.3
90°-180°	2634.0	64.1
0°-180°	4112.0	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°	2	22	2	22	2	4
95°	44	58	44	58	44	48
105°	171	179	171	179	171	181
115°	320	317	320	317	320	316
125°	466	462	466	462	466	416
135°	601	602	601	602	601	465
145°	730	731	730	731	730	457
155°	837	836	837	836	837	385
165°	911	909	911	909	911	257
175°	948	943	948	943	948	90
180°	949	949	949	949	949	

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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°	2.2	4.0	5.8	7.6	9.4	10.3	11.0	12.3	13.6	14.9	16.2
92.5°	19.1	21.2	23.3	25.4	27.5	28.6	29.0	29.8	30.7	31.5	32.3
95°	44.1	45.6	47.0	48.5	50.0	50.7	51.3	52.4	53.5	54.7	55.8
97.5°	70.5	71.8	73.1	74.4	75.7	76.4	77.0	78.3	79.6	80.9	82.2
100°	102.8	103.4	104.1	104.7	105.4	105.7	106.4	107.9	109.4	110.8	112.3
102.5°	136.6	136.8	136.9	137.1	137.2	137.3	138.0	139.3	140.6	141.9	143.2
105°	171.1	171.3	171.4	171.6	171.7	171.8	172.1	172.8	173.4	174.1	174.7
107.5°	207.0	207.2	207.4	207.5	207.7	207.8	207.9	208.0	208.2	208.3	208.5
110°	243.8	244.1	244.4	244.7	245.0	245.2	245.1	245.0	244.8	244.7	244.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.9	281.9	281.9	281.9	281.9	281.9	281.7	281.4	281.1	280.8	280.5
115°	320.1	320.1	320.1	320.1	320.1	320.1	319.9	319.6	319.3	318.9	318.6
117.5°	356.1	356.1	356.1	356.1	356.1	356.1	356.0	355.8	355.7	355.5	355.3
120°	392.1	392.7	393.4	394.0	394.7	395.0	394.8	394.3	393.8	393.3	392.8
122.5°	429.5	429.7	429.8	430.0	430.1	430.2	430.1	430.0	429.8	429.7	429.5
125°	466.2	466.2	466.2	466.2	466.2	466.2	466.1	466.0	465.8	465.7	465.5
127.5°	499.2	499.7	500.2	500.7	501.2	501.5	501.3	501.0	500.7	500.3	500.0
130°	534.5	535.0	535.5	536.0	536.5	536.7	536.7	536.7	536.7	536.7	536.7
132.5°	570.5	570.8	571.1	571.4	571.7	571.9	571.8	571.7	571.5	571.4	571.2
135°	601.3	602.3	603.3	604.2	605.2	605.7	605.7	605.7	605.7	605.7	605.7
137.5°	635.8	636.3	636.8	637.3	637.8	638.0	638.2	638.5	638.8	639.2	639.5
140°	670.3	670.6	671.0	671.3	671.6	671.8	671.8	671.8	671.8	671.8	671.8
142.5°	701.9	702.2	702.6	702.9	703.2	703.4	703.3	703.1	703.0	702.8	702.6
145°	730.5	731.2	731.8	732.5	733.2	733.5	733.6	733.7	733.9	734.0	734.2
147.5°	759.9	760.7	761.5	762.4	763.2	763.6	763.5	763.3	763.2	763.0	762.8
150°	786.3	787.0	787.6	788.3	789.0	789.3	789.3	789.3	789.3	789.3	789.3
152.5°	811.3	811.6	811.9	812.2	812.5	812.7	812.8	813.0	813.1	813.3	813.5
155°	837.0	837.0	837.0	837.0	837.0	837.0	836.9	836.7	836.6	836.4	836.2
157.5°	859.0	858.7	858.3	858.0	857.7	857.5	857.5	857.5	857.5	857.5	857.5
160°	878.1	877.9	877.8	877.6	877.5	877.4	877.3	877.1	877.0	876.8	876.6
162.5°	895.7	895.2	894.7	894.2	893.7	893.5	893.4	893.3	893.1	893.0	892.8
165°	911.1	910.6	910.1	909.6	909.1	908.9	908.7	908.4	908.1	907.8	907.5
167.5°	923.6	923.0	922.3	921.7	921.0	920.7	920.7	920.7	920.7	920.7	920.7
170°	933.9	933.1	932.3	931.4	930.6	930.2	930.3	930.4	930.6	930.7	930.9
172.5°	941.2	940.6	939.9	939.3	938.6	938.3	938.3	938.3	938.3	938.3	938.3
175°	947.8	947.0	946.2	945.4	944.6	944.2	944.1	943.9	943.8	943.6	943.4
177.5°	950.8	950.0	949.2	948.3	947.5	947.1	947.1	947.1	947.1	947.1	947.1
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

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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°	17.2	18.2	19.1	20.1	20.6	20.8	21.1	21.4	21.7	22.0	21.7
92.5°	32.8	33.3	33.8	34.3	34.5	34.6	34.7	34.9	35.0	35.2	35.0
95°	56.3	56.8	57.3	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0
97.5°	82.9	83.5	84.2	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
100°	112.6	113.0	113.3	113.6	113.8	113.8	113.8	113.8	113.8	113.8	113.8
102.5°	143.7	144.2	144.7	145.2	145.4	145.5	145.6	145.8	145.9	146.1	145.9
105°	175.2	175.7	176.2	176.7	176.9	177.1	177.6	178.1	178.6	179.1	178.6
107.5°	209.1	209.8	210.4	211.1	211.4	211.3	211.2	211.0	210.9	210.7	210.9
110°	244.2	243.8	243.5	243.2	243.0	243.2	243.7	244.2	244.7	245.2	244.7

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
115°	318.4	318.3	318.1	318.0	317.9	317.8	317.7	317.5	317.4	317.2	317.4
117.5°	354.8	354.3	353.8	353.3	353.1	352.9	352.4	351.9	351.4	350.9	351.4
120°	392.0	391.2	390.3	389.5	389.1	389.3	389.6	389.9	390.3	390.6	390.3
122.5°	429.0	428.5	428.0	427.5	427.3	426.9	426.1	425.2	424.4	423.6	424.4
125°	465.2	464.8	464.5	464.2	464.0	463.8	463.5	463.2	462.8	462.5	462.8
127.5°	499.7	499.3	499.0	498.7	498.5	498.4	498.3	498.1	498.0	497.8	498.0
130°	536.4	536.0	535.7	535.4	535.2	534.9	534.2	533.6	532.9	532.3	532.9
132.5°	570.9	570.5	570.2	569.9	569.7	569.6	569.5	569.3	569.2	569.0	569.2
135°	605.4	605.0	604.7	604.4	604.2	604.0	603.5	603.0	602.5	602.0	602.5
137.5°	639.0	638.5	638.0	637.5	637.3	637.4	637.5	637.7	637.8	638.0	637.8
140°	671.6	671.4	671.3	671.1	671.0	670.9	670.8	670.6	670.5	670.3	670.5
142.5°	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6
145°	734.0	733.9	733.7	733.6	733.5	733.3	732.8	732.3	731.8	731.3	731.8
147.5°	762.6	762.5	762.3	762.2	762.1	762.0	761.9	761.7	761.6	761.4	761.6
150°	789.3	789.3	789.3	789.3	789.3	789.2	789.0	788.9	788.7	788.5	788.7
152.5°	814.0	814.5	815.0	815.5	815.7	815.5	815.0	814.5	814.0	813.5	814.0
155°	836.9	837.5	838.2	838.9	839.2	838.9	838.2	837.5	836.9	836.2	836.9
157.5°	858.0	858.5	859.0	859.5	859.7	859.5	859.0	858.5	858.0	857.5	858.0
160°	877.1	877.6	878.1	878.6	878.8	878.4	877.6	876.8	876.0	875.2	876.0
162.5°	893.8	894.8	895.7	896.7	897.2	896.8	896.0	895.1	894.3	893.5	894.3
165°	908.5	909.5	910.4	911.4	911.9	911.6	910.9	910.2	909.6	908.9	909.6
167.5°	921.7	922.7	923.6	924.6	925.1	924.6	923.6	922.7	921.7	920.7	921.7
170°	931.9	932.9	933.9	934.9	935.4	934.8	933.7	932.5	931.4	930.2	931.4
172.5°	939.4	940.6	941.7	942.8	943.4	942.8	941.7	940.6	939.4	938.3	939.4
175°	944.6	945.7	946.9	948.0	948.6	948.0	946.9	945.7	944.6	943.4	944.6
177.5°	948.2	949.4	950.5	951.6	952.2	951.6	950.3	949.0	947.7	946.4	947.7
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

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°	21.4	21.1	20.8	20.6	20.1	19.1	18.2	17.2	16.2	14.9	13.6
92.5°	34.9	34.7	34.6	34.5	34.3	33.8	33.3	32.8	32.3	31.5	30.7
95°	58.0	58.0	58.0	58.0	57.8	57.3	56.8	56.3	55.8	54.7	53.5
97.5°	85.2	85.2	85.2	85.2	84.9	84.2	83.5	82.9	82.2	80.9	79.6
100°	113.8	113.8	113.8	113.8	113.6	113.3	113.0	112.6	112.3	110.8	109.4
102.5°	145.8	145.6	145.5	145.4	145.2	144.7	144.2	143.7	143.2	141.9	140.6
105°	178.1	177.6	177.1	176.9	176.7	176.2	175.7	175.2	174.7	174.1	173.4
107.5°	211.0	211.2	211.3	211.4	211.1	210.4	209.8	209.1	208.5	208.3	208.2
110°	244.2	243.7	243.2	243.0	243.2	243.5	243.8	244.2	244.5	244.7	244.8

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.8	281.1
115°	317.5	317.7	317.8	317.9	318.0	318.1	318.3	318.4	318.6	318.9	319.3
117.5°	351.9	352.4	352.9	353.1	353.3	353.8	354.3	354.8	355.3	355.5	355.7
120°	389.9	389.6	389.3	389.1	389.5	390.3	391.2	392.0	392.8	393.3	393.8
122.5°	425.2	426.1	426.9	427.3	427.5	428.0	428.5	429.0	429.5	429.7	429.8
125°	463.2	463.5	463.8	464.0	464.2	464.5	464.8	465.2	465.5	465.7	465.8
127.5°	498.1	498.3	498.4	498.5	498.7	499.0	499.3	499.7	500.0	500.3	500.7
130°	533.6	534.2	534.9	535.2	535.4	535.7	536.0	536.4	536.7	536.7	536.7
132.5°	569.3	569.5	569.6	569.7	569.9	570.2	570.5	570.9	571.2	571.4	571.5
135°	603.0	603.5	604.0	604.2	604.4	604.7	605.0	605.4	605.7	605.7	605.7
137.5°	637.7	637.5	637.4	637.3	637.5	638.0	638.5	639.0	639.5	639.2	638.8
140°	670.6	670.8	670.9	671.0	671.1	671.3	671.4	671.6	671.8	671.8	671.8
142.5°	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.8	703.0
145°	732.3	732.8	733.3	733.5	733.6	733.7	733.9	734.0	734.2	734.0	733.9
147.5°	761.7	761.9	762.0	762.1	762.2	762.3	762.5	762.6	762.8	763.0	763.2
150°	788.9	789.0	789.2	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
152.5°	814.5	815.0	815.5	815.7	815.5	815.0	814.5	814.0	813.5	813.3	813.1
155°	837.5	838.2	838.9	839.2	838.9	838.2	837.5	836.9	836.2	836.4	836.6
157.5°	858.5	859.0	859.5	859.7	859.5	859.0	858.5	858.0	857.5	857.5	857.5
160°	876.8	877.6	878.4	878.8	878.6	878.1	877.6	877.1	876.6	876.8	877.0
162.5°	895.1	896.0	896.8	897.2	896.7	895.7	894.8	893.8	892.8	893.0	893.1
165°	910.2	910.9	911.6	911.9	911.4	910.4	909.5	908.5	907.5	907.8	908.1
167.5°	922.7	923.6	924.6	925.1	924.6	923.6	922.7	921.7	920.7	920.7	920.7
170°	932.5	933.7	934.8	935.4	934.9	933.9	932.9	931.9	930.9	930.7	930.6
172.5°	940.6	941.7	942.8	943.4	942.8	941.7	940.6	939.4	938.3	938.3	938.3
175°	945.7	946.9	948.0	948.6	948.0	946.9	945.7	944.6	943.4	943.6	943.8
177.5°	949.0	950.3	951.6	952.2	951.6	950.5	949.4	948.2	947.1	947.1	947.1
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

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°	12.3	11.0	10.3	9.4	7.6	5.8	4.0	2.2	4.0	5.8	7.6
92.5°	29.8	29.0	28.6	27.5	25.4	23.3	21.2	19.1	21.2	23.3	25.4
95°	52.4	51.3	50.7	50.0	48.5	47.0	45.6	44.1	45.6	47.0	48.5
97.5°	78.3	77.0	76.4	75.7	74.4	73.1	71.8	70.5	71.8	73.1	74.4
100°	107.9	106.4	105.7	105.4	104.7	104.1	103.4	102.8	103.4	104.1	104.7
102.5°	139.3	138.0	137.3	137.2	137.1	136.9	136.8	136.6	136.8	136.9	137.1
105°	172.8	172.1	171.8	171.7	171.6	171.4	171.3	171.1	171.3	171.4	171.6
107.5°	208.0	207.9	207.8	207.7	207.5	207.4	207.2	207.0	207.2	207.4	207.5
110°	245.0	245.1	245.2	245.0	244.7	244.4	244.1	243.8	244.1	244.4	244.7

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	281.4	281.7	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9
115°	319.6	319.9	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1
117.5°	355.8	356.0	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1
120°	394.3	394.8	395.0	394.7	394.0	393.4	392.7	392.1	392.7	393.4	394.0
122.5°	430.0	430.1	430.2	430.1	430.0	429.8	429.7	429.5	429.7	429.8	430.0
125°	466.0	466.1	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2
127.5°	501.0	501.3	501.5	501.2	500.7	500.2	499.7	499.2	499.7	500.2	500.7
130°	536.7	536.7	536.7	536.5	536.0	535.5	535.0	534.5	535.0	535.5	536.0
132.5°	571.7	571.8	571.9	571.7	571.4	571.1	570.8	570.5	570.8	571.1	571.4
135°	605.7	605.7	605.7	605.2	604.2	603.3	602.3	601.3	602.3	603.3	604.2
137.5°	638.5	638.2	638.0	637.8	637.3	636.8	636.3	635.8	636.3	636.8	637.3
140°	671.8	671.8	671.8	671.6	671.3	671.0	670.6	670.3	670.6	671.0	671.3
142.5°	703.1	703.3	703.4	703.2	702.9	702.6	702.2	701.9	702.2	702.6	702.9
145°	733.7	733.6	733.5	733.2	732.5	731.8	731.2	730.5	731.2	731.8	732.5
147.5°	763.3	763.5	763.6	763.2	762.4	761.5	760.7	759.9	760.7	761.5	762.4
150°	789.3	789.3	789.3	789.0	788.3	787.6	787.0	786.3	787.0	787.6	788.3
152.5°	813.0	812.8	812.7	812.5	812.2	811.9	811.6	811.3	811.6	811.9	812.2
155°	836.7	836.9	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0
157.5°	857.5	857.5	857.5	857.7	858.0	858.3	858.7	859.0	858.7	858.3	858.0
160°	877.1	877.3	877.4	877.5	877.6	877.8	877.9	878.1	877.9	877.8	877.6
162.5°	893.3	893.4	893.5	893.7	894.2	894.7	895.2	895.7	895.2	894.7	894.2
165°	908.4	908.7	908.9	909.1	909.6	910.1	910.6	911.1	910.6	910.1	909.6
167.5°	920.7	920.7	920.7	921.0	921.7	922.3	923.0	923.6	923.0	922.3	921.7
170°	930.4	930.3	930.2	930.6	931.4	932.3	933.1	933.9	933.1	932.3	931.4
172.5°	938.3	938.3	938.3	938.6	939.3	939.9	940.6	941.2	940.6	939.9	939.3
175°	943.9	944.1	944.2	944.6	945.4	946.2	947.0	947.8	947.0	946.2	945.4
177.5°	947.1	947.1	947.1	947.5	948.3	949.2	950.0	950.8	950.0	949.2	948.3
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

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°	9.4	10.3	11.0	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.1
92.5°	27.5	28.6	29.0	29.8	30.7	31.5	32.3	32.8	33.3	33.8	34.3
95°	50.0	50.7	51.3	52.4	53.5	54.7	55.8	56.3	56.8	57.3	57.8
97.5°	75.7	76.4	77.0	78.3	79.6	80.9	82.2	82.9	83.5	84.2	84.9
100°	105.4	105.7	106.4	107.9	109.4	110.8	112.3	112.6	113.0	113.3	113.6
102.5°	137.2	137.3	138.0	139.3	140.6	141.9	143.2	143.7	144.2	144.7	145.2
105°	171.7	171.8	172.1	172.8	173.4	174.1	174.7	175.2	175.7	176.2	176.7
107.5°	207.7	207.8	207.9	208.0	208.2	208.3	208.5	209.1	209.8	210.4	211.1
110°	245.0	245.2	245.1	245.0	244.8	244.7	244.5	244.2	243.8	243.5	243.2

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	281.9	281.9	281.7	281.4	281.1	280.8	280.5	280.5	280.5	280.5	280.5
115°	320.1	320.1	319.9	319.6	319.3	318.9	318.6	318.4	318.3	318.1	318.0
117.5°	356.1	356.1	356.0	355.8	355.7	355.5	355.3	354.8	354.3	353.8	353.3
120°	394.7	395.0	394.8	394.3	393.8	393.3	392.8	392.0	391.2	390.3	389.5
122.5°	430.1	430.2	430.1	430.0	429.8	429.7	429.5	429.0	428.5	428.0	427.5
125°	466.2	466.2	466.1	466.0	465.8	465.7	465.5	465.2	464.8	464.5	464.2
127.5°	501.2	501.5	501.3	501.0	500.7	500.3	500.0	499.7	499.3	499.0	498.7
130°	536.5	536.7	536.7	536.7	536.7	536.7	536.7	536.4	536.0	535.7	535.4
132.5°	571.7	571.9	571.8	571.7	571.5	571.4	571.2	570.9	570.5	570.2	569.9
135°	605.2	605.7	605.7	605.7	605.7	605.7	605.7	605.4	605.0	604.7	604.4
137.5°	637.8	638.0	638.2	638.5	638.8	639.2	639.5	639.0	638.5	638.0	637.5
140°	671.6	671.8	671.8	671.8	671.8	671.8	671.8	671.6	671.4	671.3	671.1
142.5°	703.2	703.4	703.3	703.1	703.0	702.8	702.6	702.6	702.6	702.6	702.6
145°	733.2	733.5	733.6	733.7	733.9	734.0	734.2	734.0	733.9	733.7	733.6
147.5°	763.2	763.6	763.5	763.3	763.2	763.0	762.8	762.6	762.5	762.3	762.2
150°	789.0	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
152.5°	812.5	812.7	812.8	813.0	813.1	813.3	813.5	814.0	814.5	815.0	815.5
155°	837.0	837.0	836.9	836.7	836.6	836.4	836.2	836.9	837.5	838.2	838.9
157.5°	857.7	857.5	857.5	857.5	857.5	857.5	857.5	858.0	858.5	859.0	859.5
160°	877.5	877.4	877.3	877.1	877.0	876.8	876.6	877.1	877.6	878.1	878.6
162.5°	893.7	893.5	893.4	893.3	893.1	893.0	892.8	893.8	894.8	895.7	896.7
165°	909.1	908.9	908.7	908.4	908.1	907.8	907.5	908.5	909.5	910.4	911.4
167.5°	921.0	920.7	920.7	920.7	920.7	920.7	920.7	921.7	922.7	923.6	924.6
170°	930.6	930.2	930.3	930.4	930.6	930.7	930.9	931.9	932.9	933.9	934.9
172.5°	938.6	938.3	938.3	938.3	938.3	938.3	938.3	939.4	940.6	941.7	942.8
175°	944.6	944.2	944.1	943.9	943.8	943.6	943.4	944.6	945.7	946.9	948.0
177.5°	947.5	947.1	947.1	947.1	947.1	947.1	947.1	948.2	949.4	950.5	951.6
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

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°	20.6	20.8	21.1	21.4	21.7	22.0	21.7	21.4	21.1	20.8	20.6
92.5°	34.5	34.6	34.7	34.9	35.0	35.2	35.0	34.9	34.7	34.6	34.5
95°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
97.5°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
100°	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8
102.5°	145.4	145.5	145.6	145.8	145.9	146.1	145.9	145.8	145.6	145.5	145.4
105°	176.9	177.1	177.6	178.1	178.6	179.1	178.6	178.1	177.6	177.1	176.9
107.5°	211.4	211.3	211.2	211.0	210.9	210.7	210.9	211.0	211.2	211.3	211.4
110°	243.0	243.2	243.7	244.2	244.7	245.2	244.7	244.2	243.7	243.2	243.0

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
115°	317.9	317.8	317.7	317.5	317.4	317.2	317.4	317.5	317.7	317.8	317.9
117.5°	353.1	352.9	352.4	351.9	351.4	350.9	351.4	351.9	352.4	352.9	353.1
120°	389.1	389.3	389.6	389.9	390.3	390.6	390.3	389.9	389.6	389.3	389.1
122.5°	427.3	426.9	426.1	425.2	424.4	423.6	424.4	425.2	426.1	426.9	427.3
125°	464.0	463.8	463.5	463.2	462.8	462.5	462.8	463.2	463.5	463.8	464.0
127.5°	498.5	498.4	498.3	498.1	498.0	497.8	498.0	498.1	498.3	498.4	498.5
130°	535.2	534.9	534.2	533.6	532.9	532.3	532.9	533.6	534.2	534.9	535.2
132.5°	569.7	569.6	569.5	569.3	569.2	569.0	569.2	569.3	569.5	569.6	569.7
135°	604.2	604.0	603.5	603.0	602.5	602.0	602.5	603.0	603.5	604.0	604.2
137.5°	637.3	637.4	637.5	637.7	637.8	638.0	637.8	637.7	637.5	637.4	637.3
140°	671.0	670.9	670.8	670.6	670.5	670.3	670.5	670.6	670.8	670.9	671.0
142.5°	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6
145°	733.5	733.3	732.8	732.3	731.8	731.3	731.8	732.3	732.8	733.3	733.5
147.5°	762.1	762.0	761.9	761.7	761.6	761.4	761.6	761.7	761.9	762.0	762.1
150°	789.3	789.2	789.0	788.9	788.7	788.5	788.7	788.9	789.0	789.2	789.3
152.5°	815.7	815.5	815.0	814.5	814.0	813.5	814.0	814.5	815.0	815.5	815.7
155°	839.2	838.9	838.2	837.5	836.9	836.2	836.9	837.5	838.2	838.9	839.2
157.5°	859.7	859.5	859.0	858.5	858.0	857.5	858.0	858.5	859.0	859.5	859.7
160°	878.8	878.4	877.6	876.8	876.0	875.2	876.0	876.8	877.6	878.4	878.8
162.5°	897.2	896.8	896.0	895.1	894.3	893.5	894.3	895.1	896.0	896.8	897.2
165°	911.9	911.6	910.9	910.2	909.6	908.9	909.6	910.2	910.9	911.6	911.9
167.5°	925.1	924.6	923.6	922.7	921.7	920.7	921.7	922.7	923.6	924.6	925.1
170°	935.4	934.8	933.7	932.5	931.4	930.2	931.4	932.5	933.7	934.8	935.4
172.5°	943.4	942.8	941.7	940.6	939.4	938.3	939.4	940.6	941.7	942.8	943.4
175°	948.6	948.0	946.9	945.7	944.6	943.4	944.6	945.7	946.9	948.0	948.6
177.5°	952.2	951.6	950.3	949.0	947.7	946.4	947.7	949.0	950.3	951.6	952.2
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

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°	20.1	19.1	18.2	17.2	16.2	14.9	13.6	12.3	11.0	10.3	9.4
92.5°	34.3	33.8	33.3	32.8	32.3	31.5	30.7	29.8	29.0	28.6	27.5
95°	57.8	57.3	56.8	56.3	55.8	54.7	53.5	52.4	51.3	50.7	50.0
97.5°	84.9	84.2	83.5	82.9	82.2	80.9	79.6	78.3	77.0	76.4	75.7
100°	113.6	113.3	113.0	112.6	112.3	110.8	109.4	107.9	106.4	105.7	105.4
102.5°	145.2	144.7	144.2	143.7	143.2	141.9	140.6	139.3	138.0	137.3	137.2
105°	176.7	176.2	175.7	175.2	174.7	174.1	173.4	172.8	172.1	171.8	171.7
107.5°	211.1	210.4	209.8	209.1	208.5	208.3	208.2	208.0	207.9	207.8	207.7
110°	243.2	243.5	243.8	244.2	244.5	244.7	244.8	245.0	245.1	245.2	245.0

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	280.5	280.5	280.5	280.5	280.5	280.8	281.1	281.4	281.7	281.9	281.9
115°	318.0	318.1	318.3	318.4	318.6	318.9	319.3	319.6	319.9	320.1	320.1
117.5°	353.3	353.8	354.3	354.8	355.3	355.5	355.7	355.8	356.0	356.1	356.1
120°	389.5	390.3	391.2	392.0	392.8	393.3	393.8	394.3	394.8	395.0	394.7
122.5°	427.5	428.0	428.5	429.0	429.5	429.7	429.8	430.0	430.1	430.2	430.1
125°	464.2	464.5	464.8	465.2	465.5	465.7	465.8	466.0	466.1	466.2	466.2
127.5°	498.7	499.0	499.3	499.7	500.0	500.3	500.7	501.0	501.3	501.5	501.2
130°	535.4	535.7	536.0	536.4	536.7	536.7	536.7	536.7	536.7	536.7	536.5
132.5°	569.9	570.2	570.5	570.9	571.2	571.4	571.5	571.7	571.8	571.9	571.7
135°	604.4	604.7	605.0	605.4	605.7	605.7	605.7	605.7	605.7	605.7	605.2
137.5°	637.5	638.0	638.5	639.0	639.5	639.2	638.8	638.5	638.2	638.0	637.8
140°	671.1	671.3	671.4	671.6	671.8	671.8	671.8	671.8	671.8	671.8	671.6
142.5°	702.6	702.6	702.6	702.6	702.6	702.8	703.0	703.1	703.3	703.4	703.2
145°	733.6	733.7	733.9	734.0	734.2	734.0	733.9	733.7	733.6	733.5	733.2
147.5°	762.2	762.3	762.5	762.6	762.8	763.0	763.2	763.3	763.5	763.6	763.2
150°	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.0
152.5°	815.5	815.0	814.5	814.0	813.5	813.3	813.1	813.0	812.8	812.7	812.5
155°	838.9	838.2	837.5	836.9	836.2	836.4	836.6	836.7	836.9	837.0	837.0
157.5°	859.5	859.0	858.5	858.0	857.5	857.5	857.5	857.5	857.5	857.5	857.7
160°	878.6	878.1	877.6	877.1	876.6	876.8	877.0	877.1	877.3	877.4	877.5
162.5°	896.7	895.7	894.8	893.8	892.8	893.0	893.1	893.3	893.4	893.5	893.7
165°	911.4	910.4	909.5	908.5	907.5	907.8	908.1	908.4	908.7	908.9	909.1
167.5°	924.6	923.6	922.7	921.7	920.7	920.7	920.7	920.7	920.7	920.7	921.0
170°	934.9	933.9	932.9	931.9	930.9	930.7	930.6	930.4	930.3	930.2	930.6
172.5°	942.8	941.7	940.6	939.4	938.3	938.3	938.3	938.3	938.3	938.3	938.6
175°	948.0	946.9	945.7	944.6	943.4	943.6	943.8	943.9	944.1	944.2	944.6
177.5°	951.6	950.5	949.4	948.2	947.1	947.1	947.1	947.1	947.1	947.1	947.5
180°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

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°	7.6	5.8	4.0	2.2
92.5°	25.4	23.3	21.2	19.1
95°	48.5	47.0	45.6	44.1
97.5°	74.4	73.1	71.8	70.5
100°	104.7	104.1	103.4	102.8
102.5°	137.1	136.9	136.8	136.6
105°	171.6	171.4	171.3	171.1
107.5°	207.5	207.4	207.2	207.0
110°	244.7	244.4	244.1	243.8

TEST NUMBER: P1001392

CATALOG NUMBER: SA4XXDIP-B350D810UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	281.9	281.9	281.9	281.9
115°	320.1	320.1	320.1	320.1
117.5°	356.1	356.1	356.1	356.1
120°	394.0	393.4	392.7	392.1
122.5°	430.0	429.8	429.7	429.5
125°	466.2	466.2	466.2	466.2
127.5°	500.7	500.2	499.7	499.2
130°	536.0	535.5	535.0	534.5
132.5°	571.4	571.1	570.8	570.5
135°	604.2	603.3	602.3	601.3
137.5°	637.3	636.8	636.3	635.8
140°	671.3	671.0	670.6	670.3
142.5°	702.9	702.6	702.2	701.9
145°	732.5	731.8	731.2	730.5
147.5°	762.4	761.5	760.7	759.9
150°	788.3	787.6	787.0	786.3
152.5°	812.2	811.9	811.6	811.3
155°	837.0	837.0	837.0	837.0
157.5°	858.0	858.3	858.7	859.0
160°	877.6	877.8	877.9	878.1
162.5°	894.2	894.7	895.2	895.7
165°	909.6	910.1	910.6	911.1
167.5°	921.7	922.3	923.0	923.6
170°	931.4	932.3	933.1	933.9
172.5°	939.3	939.9	940.6	941.2
175°	945.4	946.2	947.0	947.8
177.5°	948.3	949.2	950.0	950.8
180°	949.3	949.3	949.3	949.3

(END OF REPORT)