

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: P1001349

Luminaire Tested: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001349
REPORT IS A COMBINATION OF REPORTS P995968 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

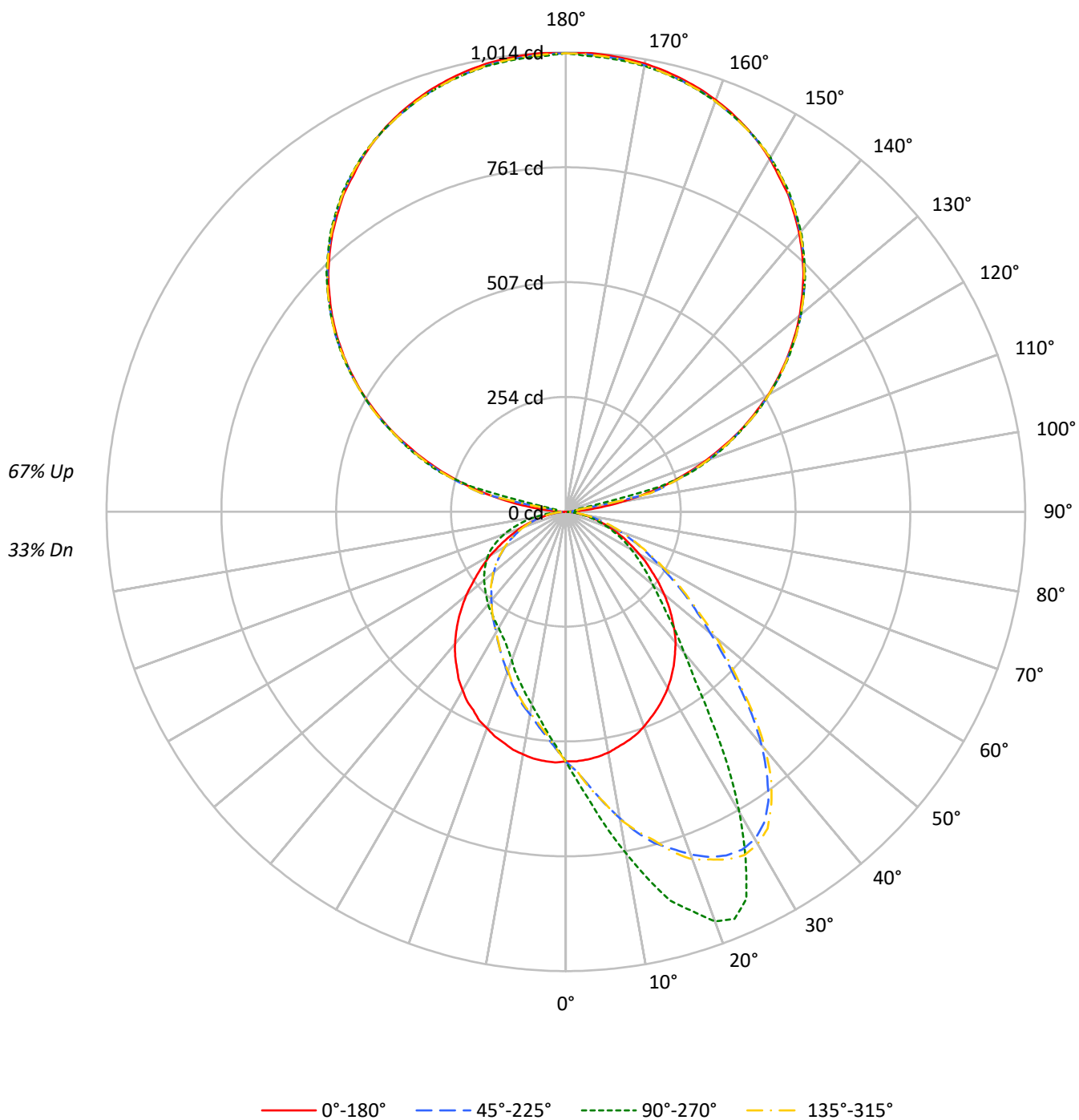
Lumens per Lamp: N/A
Luminaire Lumens: 4655.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V): 120
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: P1001349

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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29
3	78	69	62	57	70	63	57	52	50	46	42	39	36	34	28	26	25
4	72	61	54	48	64	55	49	44	45	40	36	35	31	29	25	23	22
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4495	4495	4495	4495
5°	4483	5156	4509	3875
10°	4450	6016	4484	3400
15°	4397	6935	4427	3041
20°	4339	7520	4371	2727
25°	4257	7434	4297	2495
30°	4175	6144	4226	2375
35°	4061	4579	4106	2303
40°	3929	3449	3966	2268
45°	3725	2768	3771	2219
50°	3483	2333	3533	2196
55°	3197	2030	3248	2170
60°	2920	1787	3006	2135
65°	2659	1538	2685	2045
70°	2354	1266	2405	1884
75°	2052	973	2040	1600
80°	1616	639	1596	1214
85°	1062	287	997	708

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5812 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.2
10°-20°	165.6	3.6
20°-30°	263.0	5.7
30°-40°	292.3	6.3
40°-50°	265.8	5.7
50°-60°	217.2	4.7
60°-70°	155.1	3.3
70°-80°	85.3	1.8
80°-90°	25.1	0.5
90°-100°	33.6	0.7
100°-110°	221.3	4.8
110°-120°	422.5	9.1
120°-130°	536.4	11.5
130°-140°	573.8	12.3
140°-150°	536.5	11.5
150°-160°	432.7	9.3
160°-170°	279.0	6.0
170°-180°	96.2	2.1
0°-30°	482.3	10.4
0°-40°	774.6	16.6
0°-60°	1257.6	27.0
0°-90°	1523.1	32.7
90°-120°	677.4	14.6
90°-150°	2324.0	49.9
90°-180°	3132.0	67.3
0°-180°	4655.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	551	551	551	551	551	
5°	549	647	552	486	549	52
15°	524	888	528	390	524	148
25°	479	943	483	316	479	221
35°	415	558	420	280	415	259
45°	331	313	335	251	331	255
55°	233	205	237	219	233	209
65°	145	132	147	175	145	143
75°	71	66	71	108	71	75
85°	15	14	14	34	15	17
90°	2	23	2	23	2	3
95°	42	22	42	22	42	51
105°	228	216	228	216	228	238
115°	425	428	425	428	425	419
125°	598	603	598	603	598	534
135°	742	747	742	747	742	572
145°	855	860	855	860	855	535
155°	938	937	938	937	938	432
165°	989	985	989	985	989	280
175°	1012	1006	1012	1006	1012	96
180°	1012	1012	1012	1012	1012	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	551.2	556.7	559.0	560.8	566.7	568.6	569.0	571.8	574.0	574.5	574.5
5°	548.9	557.6	564.4	570.8	580.4	584.5	589.6	595.0	602.3	606.9	609.2
7.5°	545.3	558.1	568.6	579.5	592.8	601.0	605.5	620.2	630.2	638.4	648.5
10°	539.8	556.2	571.3	587.3	606.0	616.0	626.1	643.9	658.1	674.0	686.8
12.5°	531.6	553.0	571.3	593.7	617.0	628.8	640.7	671.8	688.2	702.4	725.2
15°	524.3	545.7	571.8	594.6	623.4	641.2	658.5	678.6	704.6	735.2	757.2
17.5°	516.0	543.0	567.2	599.2	631.1	648.0	662.2	693.2	729.8	759.9	780.0
20°	504.6	532.0	564.0	597.8	635.7	648.9	667.7	709.2	742.1	771.8	804.7
22.5°	491.4	523.3	557.1	589.6	628.8	656.7	677.2	713.8	753.5	787.8	824.7
25°	478.6	513.3	543.0	587.3	628.8	647.6	670.8	714.2	757.6	799.2	837.1
27.5°	464.9	497.3	537.5	572.7	619.7	640.3	665.4	712.9	759.0	800.5	841.2
30°	449.8	484.5	517.9	559.4	605.1	631.6	654.9	706.5	753.5	796.9	834.8
32.5°	432.9	465.8	501.4	540.7	588.6	615.6	644.8	697.8	748.0	785.5	814.7
35°	415.1	448.5	479.5	519.7	569.0	596.0	624.3	682.7	732.5	763.1	780.0
37.5°	395.5	427.0	457.6	497.3	546.6	575.4	604.2	660.8	707.8	733.4	728.8
40°	376.8	405.1	433.4	470.8	522.4	553.0	578.1	635.2	676.3	687.3	672.2
42.5°	355.3	379.5	406.9	445.3	495.5	524.3	555.8	607.8	638.4	633.9	608.3
45°	331.1	352.5	379.9	416.0	467.2	496.9	523.3	572.7	595.0	583.6	537.0
47.5°	307.8	328.8	351.2	387.3	437.0	462.2	489.1	533.4	546.2	522.0	475.4
50°	282.7	300.0	323.3	357.6	404.2	430.6	453.0	488.6	493.2	463.5	415.1
52.5°	258.5	273.1	295.5	329.3	372.6	393.6	415.6	447.1	443.4	412.8	366.2
55°	232.9	246.6	267.2	298.2	336.6	356.7	375.4	403.2	395.5	364.0	323.3
57.5°	211.4	221.0	241.1	269.9	301.4	323.3	339.3	361.2	349.4	317.8	279.9
60°	186.8	198.7	215.5	238.8	269.9	284.5	298.7	313.3	305.1	274.9	241.1
62.5°	164.4	173.5	188.1	210.5	234.7	248.0	263.0	272.2	264.0	236.1	207.8
65°	145.2	152.5	163.9	182.2	205.5	216.5	225.1	233.8	227.0	200.9	180.4
67.5°	124.2	130.6	140.2	154.8	174.4	182.2	190.4	196.4	188.6	171.3	151.2
70°	105.5	110.1	119.2	130.2	143.9	151.2	158.0	163.9	157.1	142.5	127.4
72.5°	86.3	90.0	98.2	105.9	118.3	123.3	128.3	132.9	130.6	116.9	104.6
75°	71.2	72.6	78.1	84.5	92.2	97.7	101.4	104.1	102.3	91.3	83.6
77.5°	53.9	55.7	59.8	64.8	71.7	74.9	77.2	79.9	77.6	69.0	63.5
80°	39.3	39.7	42.0	46.6	51.1	51.6	53.9	57.5	56.2	50.2	46.1
82.5°	25.1	26.5	27.4	30.1	33.3	34.3	35.6	36.5	36.1	32.4	31.1
85°	14.6	14.6	15.5	17.4	18.3	19.6	20.1	20.6	21.5	19.2	17.8
87.5°	6.4	6.9	6.9	7.3	8.2	8.2	8.7	9.1	9.6	9.1	7.8
90°	2.3	4.1	6.0	7.8	9.7	10.6	11.3	12.6	14.0	15.3	16.7
92.5°	11.4	11.0	10.7	10.3	10.0	9.8	10.5	11.8	13.2	14.5	15.9
95°	41.6	35.9	30.2	24.5	18.8	15.9	16.0	16.2	16.3	16.5	16.7
97.5°	79.5	83.2	86.9	90.6	94.3	96.1	87.3	69.6	52.0	34.3	16.7
100°	124.2	127.2	130.2	133.3	136.3	137.8	126.2	103.0	79.7	56.5	33.3
102.5°	174.1	176.1	178.1	180.2	182.2	183.2	184.2	186.2	188.3	190.3	192.3
105°	227.9	228.9	229.9	230.9	231.9	232.4	232.8	233.7	234.5	235.4	236.2
107.5°	277.1	277.6	278.1	278.6	279.1	279.3	279.9	281.1	282.2	283.4	284.6
110°	327.0	327.5	328.0	328.5	329.0	329.3	329.8	330.8	331.8	332.8	333.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	375.5	376.5	377.5	378.5	379.5	380.0	380.2	380.5	380.8	381.2	381.5
115°	425.4	425.9	426.4	426.9	427.4	427.7	427.6	427.5	427.3	427.2	427.0
117.5°	470.1	470.8	471.4	472.1	472.8	473.1	473.4	473.9	474.4	474.9	475.4
120°	515.5	516.2	516.9	517.6	518.3	518.6	518.5	518.3	518.2	518.0	517.8
122.5°	557.9	558.2	558.6	558.9	559.2	559.4	559.6	559.9	560.3	560.6	561.0
125°	598.0	598.7	599.4	600.1	600.8	601.1	600.9	600.6	600.3	599.9	599.6
127.5°	636.7	636.9	637.0	637.2	637.3	637.4	637.8	638.7	639.5	640.4	641.2
130°	673.7	673.9	674.1	674.2	674.4	674.5	674.8	675.3	675.8	676.3	676.8
132.5°	707.8	708.1	708.5	708.8	709.1	709.3	709.6	710.3	711.0	711.7	712.4
135°	741.9	741.7	741.5	741.4	741.2	741.1	741.4	742.1	742.8	743.5	744.2
137.5°	772.2	772.2	772.2	772.2	772.2	772.2	772.6	773.4	774.3	775.1	775.9
140°	801.7	802.0	802.4	802.7	803.0	803.2	803.4	803.7	804.0	804.4	804.7
142.5°	828.2	828.9	829.5	830.2	830.9	831.2	831.3	831.5	831.6	831.8	832.0
145°	855.4	855.9	856.4	856.9	857.4	857.7	857.7	857.7	857.7	857.7	857.7
147.5°	876.6	877.6	878.6	879.7	880.7	881.2	881.1	880.9	880.8	880.6	880.4
150°	900.1	900.8	901.4	902.1	902.8	903.1	903.0	902.9	902.7	902.6	902.4
152.5°	919.8	920.3	920.8	921.3	921.8	922.1	921.9	921.6	921.2	920.9	920.5
155°	937.9	938.1	938.3	938.4	938.6	938.7	938.4	937.9	937.4	936.9	936.4
157.5°	953.8	953.8	953.8	953.8	953.8	953.8	953.5	952.8	952.1	951.5	950.8
160°	967.5	967.0	966.5	966.0	965.5	965.2	965.1	964.9	964.8	964.6	964.4
162.5°	979.6	978.9	978.3	977.6	976.9	976.6	976.5	976.3	976.2	976.0	975.8
165°	989.4	988.6	987.7	986.9	986.0	985.6	985.6	985.6	985.6	985.6	985.6
167.5°	997.8	997.0	996.1	995.3	994.4	994.0	993.9	993.7	993.6	993.4	993.2
170°	1004.6	1003.6	1002.6	1001.5	1000.5	1000.0	1000.1	1000.3	1000.4	1000.6	1000.8
172.5°	1009.1	1008.1	1007.1	1006.1	1005.1	1004.6	1004.7	1004.8	1005.0	1005.1	1005.3
175°	1012.1	1011.1	1010.1	1009.1	1008.1	1007.6	1007.7	1007.9	1008.0	1008.2	1008.4
177.5°	1014.4	1013.2	1012.0	1010.9	1009.7	1009.1	1009.3	1009.6	1009.9	1010.3	1010.6
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	575.9	584.1	587.7	588.6	593.7	590.5	591.8	591.4	595.0	595.5	595.5
5°	617.9	627.5	630.7	635.2	642.1	643.9	642.5	645.3	650.3	646.6	652.1
7.5°	662.2	672.7	680.0	690.0	692.3	698.2	701.9	705.1	706.0	706.5	707.4
10°	703.3	716.5	726.6	743.5	747.1	750.3	766.3	759.9	768.1	765.4	766.3
12.5°	736.6	762.6	770.9	799.2	801.9	812.9	812.0	822.0	823.8	827.5	823.8
15°	780.4	810.6	823.8	839.8	849.0	861.7	864.0	877.7	883.2	888.2	883.2
17.5°	820.6	836.6	870.4	883.2	889.1	896.0	913.3	918.4	926.6	923.4	932.5
20°	840.7	863.6	899.2	921.1	930.2	936.6	951.2	959.0	962.2	962.2	963.1
22.5°	858.5	891.4	917.9	943.0	951.2	955.8	964.5	970.4	971.8	972.7	973.6
25°	874.5	904.2	925.7	939.8	943.0	943.0	948.0	944.4	938.5	943.0	945.8
27.5°	874.5	895.5	905.1	910.1	910.1	897.8	890.5	875.4	862.7	859.0	867.2
30°	859.9	869.5	856.3	843.9	834.3	826.1	797.3	774.5	769.9	766.7	779.1
32.5°	826.1	813.8	787.8	752.1	738.0	719.3	696.9	679.5	669.0	665.4	662.6
35°	766.3	734.3	700.5	652.6	642.5	618.8	588.2	575.4	558.1	557.6	563.5
37.5°	701.0	651.7	615.1	569.5	555.3	530.2	501.4	488.2	476.3	467.2	478.1
40°	624.7	581.8	526.1	488.6	468.5	455.3	431.1	416.5	411.0	406.4	413.3
42.5°	553.5	506.4	463.1	424.7	408.3	393.2	377.2	363.1	358.9	358.5	363.5
45°	482.7	436.6	396.4	363.5	353.0	343.9	328.3	324.2	317.4	312.8	315.1
47.5°	426.1	378.6	345.2	320.1	311.0	303.2	293.2	286.3	280.4	278.6	281.3
50°	370.4	338.4	304.1	283.1	276.3	269.0	261.2	254.8	252.1	250.3	252.1
52.5°	325.6	291.4	268.1	251.2	244.3	238.8	233.4	230.6	227.0	227.9	229.7
55°	285.4	255.3	235.6	223.3	219.2	216.9	210.1	206.9	205.5	204.6	205.5
57.5°	247.5	225.6	211.0	200.5	195.0	193.6	188.1	188.1	186.8	185.4	185.9
60°	217.4	198.7	184.5	176.3	175.4	173.1	169.4	169.0	165.8	167.1	167.6
62.5°	186.8	171.7	162.1	157.1	153.9	153.0	150.7	150.2	148.9	149.3	148.4
65°	162.6	150.2	140.7	136.5	135.2	134.7	132.9	131.5	130.6	131.5	130.6
67.5°	138.4	130.2	122.8	118.7	116.9	116.5	115.1	114.2	114.6	113.3	114.2
70°	115.5	107.3	102.8	100.5	99.6	98.2	98.2	98.2	98.2	97.3	96.8
72.5°	97.3	89.1	85.9	84.5	83.6	83.1	81.7	82.2	81.7	81.3	83.1
75°	77.2	72.2	69.0	67.6	68.5	67.1	65.8	66.7	65.3	65.8	67.6
77.5°	58.5	56.2	54.3	53.4	52.5	51.6	51.6	50.7	50.7	50.7	50.7
80°	42.5	42.0	38.8	38.4	38.4	37.4	37.4	37.4	37.4	37.0	37.4
82.5°	28.3	27.9	26.9	26.5	25.6	26.0	26.0	25.1	25.1	24.7	25.1
85°	16.4	16.4	15.5	15.1	14.6	15.1	14.2	13.7	14.2	13.7	14.2
87.5°	7.8	6.9	7.3	6.9	5.9	6.4	5.5	5.9	5.5	5.0	5.9
90°	17.7	18.7	19.7	20.7	21.2	21.4	21.7	22.0	22.4	22.7	22.4
92.5°	16.9	17.9	18.9	19.9	20.4	20.4	20.4	20.4	20.4	20.4	20.4
95°	17.7	18.7	19.7	20.7	21.2	21.3	21.5	21.6	21.8	22.0	21.8
97.5°	17.5	18.3	19.2	20.0	20.4	20.5	20.7	20.8	21.0	21.2	21.0
100°	30.4	27.6	24.7	21.8	20.4	20.5	20.7	20.8	21.0	21.2	21.0
102.5°	154.5	116.6	78.8	40.9	22.0	22.0	22.0	22.0	22.0	22.0	22.0
105°	237.7	239.2	240.7	242.2	243.0	240.0	233.9	227.9	221.8	215.8	221.8
107.5°	285.4	286.3	287.1	288.0	288.4	288.7	289.4	290.1	290.8	291.5	290.8
110°	334.2	334.5	334.9	335.2	335.4	335.6	336.1	336.6	337.1	337.6	337.1

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	381.3	381.2	381.0	380.9	380.8	381.1	381.8	382.5	383.1	383.8	383.1
115°	427.3	427.7	428.0	428.3	428.5	428.5	428.5	428.5	428.5	428.5	428.5
117.5°	475.2	475.1	474.9	474.8	474.7	474.7	474.7	474.7	474.7	474.7	474.7
120°	518.1	518.5	518.8	519.1	519.3	519.1	518.8	518.5	518.1	517.8	518.1
122.5°	561.2	561.3	561.5	561.6	561.7	561.5	561.2	560.9	560.5	560.2	560.5
125°	600.1	600.6	601.1	601.6	601.8	601.9	602.1	602.2	602.4	602.6	602.4
127.5°	641.0	640.8	640.7	640.5	640.4	640.3	640.2	640.0	639.9	639.7	639.9
130°	677.0	677.1	677.3	677.4	677.5	677.5	677.5	677.5	677.5	677.5	677.5
132.5°	712.6	712.7	712.9	713.0	713.1	713.0	712.9	712.7	712.6	712.4	712.6
135°	744.5	744.9	745.2	745.5	745.7	745.9	746.2	746.5	746.9	747.2	746.9
137.5°	776.3	776.6	777.0	777.3	777.5	777.4	777.2	777.1	776.9	776.7	776.9
140°	805.2	805.7	806.2	806.7	807.0	807.1	807.2	807.4	807.5	807.7	807.5
142.5°	832.3	832.7	833.0	833.3	833.5	833.5	833.5	833.5	833.5	833.5	833.5
145°	857.9	858.1	858.2	858.4	858.5	858.7	859.0	859.3	859.7	860.0	859.7
147.5°	880.6	880.8	880.9	881.1	881.2	881.3	881.4	881.6	881.7	881.9	881.7
150°	902.4	902.4	902.4	902.4	902.4	902.5	902.6	902.8	902.9	903.1	902.9
152.5°	920.9	921.2	921.6	921.9	922.1	922.0	921.8	921.7	921.5	921.3	921.5
155°	937.1	937.8	938.5	939.2	939.5	939.2	938.7	938.2	937.7	937.2	937.7
157.5°	951.6	952.5	953.3	954.2	954.6	954.2	953.3	952.5	951.6	950.8	951.6
160°	965.4	966.4	967.5	968.5	969.0	968.5	967.5	966.4	965.4	964.4	965.4
162.5°	976.8	977.8	978.8	979.8	980.3	979.7	978.5	977.4	976.2	975.0	976.2
165°	987.0	988.3	989.7	991.0	991.7	990.9	989.4	987.9	986.4	984.9	986.4
167.5°	994.7	996.2	997.7	999.2	1000.0	999.2	997.5	995.8	994.2	992.5	994.2
170°	1002.1	1003.5	1004.8	1006.1	1006.8	1006.0	1004.3	1002.6	1001.0	999.3	1001.0
172.5°	1006.7	1008.0	1009.4	1010.7	1011.4	1010.5	1008.6	1006.8	1004.9	1003.1	1004.9
175°	1009.9	1011.4	1012.9	1014.4	1015.2	1014.2	1012.2	1010.1	1008.1	1006.1	1008.1
177.5°	1012.0	1013.3	1014.7	1016.0	1016.7	1015.7	1013.7	1011.6	1009.6	1007.6	1009.6
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	594.6	593.2	591.4	591.4	589.1	589.1	585.5	579.1	573.6	571.8	572.7
5°	645.3	645.7	643.0	640.7	636.6	633.4	627.5	616.0	612.4	605.1	600.1
7.5°	703.3	701.4	696.4	692.8	691.9	684.5	671.8	658.1	647.1	639.8	629.3
10°	768.6	761.3	754.0	751.7	746.2	733.9	719.3	704.2	689.1	673.1	655.3
12.5°	823.4	809.2	808.8	803.3	792.8	785.9	768.6	747.1	721.1	703.3	683.2
15°	882.3	869.0	858.1	848.0	843.0	822.9	808.3	781.4	750.3	731.1	717.4
17.5°	924.3	918.4	899.6	895.1	888.2	864.9	841.6	815.2	788.2	761.3	724.3
20°	958.1	954.4	942.1	935.7	924.8	906.5	878.2	847.6	816.5	778.2	743.5
22.5°	972.7	968.1	958.1	952.6	945.8	930.2	906.0	871.3	830.7	796.4	759.4
25°	943.9	952.2	949.4	947.1	944.4	935.3	917.0	886.4	846.7	807.8	761.7
27.5°	879.1	893.2	906.9	908.8	913.3	917.0	909.7	887.8	854.4	813.3	762.6
30°	791.9	798.3	826.1	834.3	840.7	864.0	877.7	872.2	846.7	809.7	763.1
32.5°	680.0	696.9	725.2	744.8	762.2	788.2	823.8	838.0	828.9	798.7	752.6
35°	574.0	594.1	627.0	652.1	669.5	706.5	748.5	779.1	790.5	775.4	734.3
37.5°	487.3	511.5	540.7	550.3	570.4	616.0	674.0	716.5	744.4	745.7	713.8
40°	422.0	434.3	457.6	472.2	491.8	530.2	586.8	643.0	685.0	699.2	682.3
42.5°	366.7	376.3	393.6	411.5	429.3	458.5	510.6	563.1	619.7	648.0	647.6
45°	322.9	332.9	344.8	359.4	371.7	403.2	444.3	498.2	547.1	590.9	601.9
47.5°	284.5	293.2	307.8	314.2	322.4	352.1	387.7	437.9	488.6	538.9	551.7
50°	256.2	263.5	273.5	277.7	286.8	308.7	337.9	378.6	434.8	480.9	504.6
52.5°	230.6	236.1	243.9	247.1	253.5	269.9	296.4	328.3	374.9	422.4	455.8
55°	208.7	212.4	217.8	221.5	226.1	240.7	260.3	289.1	329.3	370.4	402.8
57.5°	188.1	190.9	196.4	198.2	201.8	213.3	227.0	251.2	288.2	324.7	356.2
60°	169.0	170.8	174.0	178.1	180.8	188.6	201.4	221.5	251.2	284.5	310.1
62.5°	150.7	153.4	154.4	156.2	158.5	165.8	175.8	190.4	216.5	243.9	270.8
65°	132.0	134.3	136.1	136.5	138.8	144.3	153.4	166.2	183.1	206.9	232.0
67.5°	114.6	116.0	116.9	118.7	121.0	123.8	131.1	140.7	156.2	175.4	195.5
70°	98.6	98.6	100.0	100.5	103.2	106.4	109.6	118.7	132.4	148.0	161.7
72.5°	81.3	83.6	83.1	85.4	84.9	87.2	91.3	97.3	107.3	119.6	132.9
75°	66.2	67.6	67.6	67.6	68.5	70.3	72.6	78.1	85.9	95.9	103.7
77.5°	51.6	52.5	52.5	52.5	53.0	54.8	57.1	60.7	66.2	72.2	76.7
80°	37.0	37.9	37.9	38.8	38.8	39.3	41.6	43.4	46.1	50.7	55.3
82.5°	25.1	25.6	26.5	26.5	26.0	26.9	27.4	29.2	32.0	32.9	36.1
85°	13.7	14.2	14.6	14.6	15.1	16.0	15.5	17.4	17.4	19.2	20.1
87.5°	5.5	6.4	6.4	5.9	6.4	6.4	6.4	7.3	7.8	8.2	7.8
90°	22.0	21.7	21.4	21.2	20.7	19.7	18.7	17.7	16.7	15.3	14.0
92.5°	20.4	20.4	20.4	20.4	19.9	18.9	17.9	16.9	15.9	14.5	13.2
95°	21.6	21.5	21.3	21.2	20.7	19.7	18.7	17.7	16.7	16.5	16.3
97.5°	20.8	20.7	20.5	20.4	20.0	19.2	18.3	17.5	16.7	34.3	52.0
100°	20.8	20.7	20.5	20.4	21.8	24.7	27.6	30.4	33.3	56.5	79.7
102.5°	22.0	22.0	22.0	22.0	40.9	78.8	116.6	154.5	192.3	190.3	188.3
105°	227.9	233.9	240.0	243.0	242.2	240.7	239.2	237.7	236.2	235.4	234.5
107.5°	290.1	289.4	288.7	288.4	288.0	287.1	286.3	285.4	284.6	283.4	282.2
110°	336.6	336.1	335.6	335.4	335.2	334.9	334.5	334.2	333.8	332.8	331.8

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	382.5	381.8	381.1	380.8	380.9	381.0	381.2	381.3	381.5	381.2	380.8
115°	428.5	428.5	428.5	428.5	428.3	428.0	427.7	427.3	427.0	427.2	427.3
117.5°	474.7	474.7	474.7	474.7	474.8	474.9	475.1	475.2	475.4	474.9	474.4
120°	518.5	518.8	519.1	519.3	519.1	518.8	518.5	518.1	517.8	518.0	518.2
122.5°	560.9	561.2	561.5	561.7	561.6	561.5	561.3	561.2	561.0	560.6	560.3
125°	602.2	602.1	601.9	601.8	601.6	601.1	600.6	600.1	599.6	599.9	600.3
127.5°	640.0	640.2	640.3	640.4	640.5	640.7	640.8	641.0	641.2	640.4	639.5
130°	677.5	677.5	677.5	677.5	677.4	677.3	677.1	677.0	676.8	676.3	675.8
132.5°	712.7	712.9	713.0	713.1	713.0	712.9	712.7	712.6	712.4	711.7	711.0
135°	746.5	746.2	745.9	745.7	745.5	745.2	744.9	744.5	744.2	743.5	742.8
137.5°	777.1	777.2	777.4	777.5	777.3	777.0	776.6	776.3	775.9	775.1	774.3
140°	807.4	807.2	807.1	807.0	806.7	806.2	805.7	805.2	804.7	804.4	804.0
142.5°	833.5	833.5	833.5	833.5	833.3	833.0	832.7	832.3	832.0	831.8	831.6
145°	859.3	859.0	858.7	858.5	858.4	858.2	858.1	857.9	857.7	857.7	857.7
147.5°	881.6	881.4	881.3	881.2	881.1	880.9	880.8	880.6	880.4	880.6	880.8
150°	902.8	902.6	902.5	902.4	902.4	902.4	902.4	902.4	902.4	902.6	902.7
152.5°	921.7	921.8	922.0	922.1	921.9	921.6	921.2	920.9	920.5	920.9	921.2
155°	938.2	938.7	939.2	939.5	939.2	938.5	937.8	937.1	936.4	936.9	937.4
157.5°	952.5	953.3	954.2	954.6	954.2	953.3	952.5	951.6	950.8	951.5	952.1
160°	966.4	967.5	968.5	969.0	968.5	967.5	966.4	965.4	964.4	964.6	964.8
162.5°	977.4	978.5	979.7	980.3	979.8	978.8	977.8	976.8	975.8	976.0	976.2
165°	987.9	989.4	990.9	991.7	991.0	989.7	988.3	987.0	985.6	985.6	985.6
167.5°	995.8	997.5	999.2	1000.0	999.2	997.7	996.2	994.7	993.2	993.4	993.6
170°	1002.6	1004.3	1006.0	1006.8	1006.1	1004.8	1003.5	1002.1	1000.8	1000.6	1000.4
172.5°	1006.8	1008.6	1010.5	1011.4	1010.7	1009.4	1008.0	1006.7	1005.3	1005.1	1005.0
175°	1010.1	1012.2	1014.2	1015.2	1014.4	1012.9	1011.4	1009.9	1008.4	1008.2	1008.0
177.5°	1011.6	1013.7	1015.7	1016.7	1016.0	1014.7	1013.3	1012.0	1010.6	1010.3	1009.9
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	568.6	566.7	565.4	565.4	561.2	557.1	554.9	553.9	553.0	549.4	544.4
5°	591.8	585.9	581.8	577.7	570.8	563.5	556.2	552.1	546.2	538.0	532.0
7.5°	617.9	603.7	599.2	594.1	580.4	568.1	558.1	549.4	539.8	529.3	518.8
10°	639.8	624.7	614.7	606.0	588.2	571.8	556.7	543.9	531.6	517.9	505.1
12.5°	660.8	639.3	628.8	616.0	597.3	573.6	553.9	538.0	519.7	505.5	490.0
15°	690.0	654.0	636.6	628.4	603.3	575.4	551.7	527.9	512.8	491.4	477.7
17.5°	694.6	665.4	654.0	632.9	602.8	571.3	543.9	520.1	497.3	478.1	460.3
20°	710.6	672.2	654.0	640.7	601.0	569.0	538.9	508.3	486.4	465.8	445.7
22.5°	720.6	677.2	658.1	637.1	599.2	560.8	525.2	498.7	471.7	450.7	434.8
25°	717.9	674.5	653.0	633.4	587.3	548.9	517.0	483.2	458.0	435.2	414.2
27.5°	716.5	667.7	644.8	622.9	579.5	539.3	499.1	471.7	443.9	417.4	401.9
30°	712.9	659.0	632.5	608.7	563.5	521.5	487.3	455.3	427.4	403.2	382.7
32.5°	700.5	644.4	618.8	593.2	546.2	504.2	469.5	439.8	411.9	386.8	367.2
35°	684.1	627.0	599.2	572.2	525.2	482.7	450.7	419.7	393.6	369.4	350.7
37.5°	667.7	606.9	580.9	549.8	506.4	462.2	429.3	401.4	377.2	352.1	331.5
40°	643.9	583.2	554.4	527.9	477.2	435.7	405.5	380.4	356.7	332.9	315.6
42.5°	611.5	557.1	527.5	498.2	450.7	409.6	380.4	358.0	335.7	316.0	296.8
45°	578.6	525.6	499.1	473.1	421.5	382.7	355.7	335.2	316.5	295.0	279.5
47.5°	538.9	494.1	467.6	442.1	393.2	354.4	329.7	310.5	293.2	275.4	260.8
50°	498.2	459.4	435.2	408.7	362.1	327.0	302.8	286.8	272.6	255.7	243.9
52.5°	454.4	420.6	400.0	374.5	333.4	300.9	276.3	260.3	248.4	236.1	225.6
55°	407.8	383.1	361.2	340.7	301.9	272.6	250.7	236.6	228.3	216.9	207.8
57.5°	365.8	342.0	328.8	305.5	271.7	242.9	225.6	213.7	204.1	197.3	190.0
60°	322.0	302.8	288.2	271.3	241.6	217.4	199.1	192.3	182.2	177.2	174.0
62.5°	279.9	266.2	252.5	239.8	213.3	190.4	176.7	168.1	162.1	157.1	154.4
65°	240.2	227.4	217.8	206.4	184.5	166.2	153.4	146.6	140.7	139.3	136.1
67.5°	201.4	195.9	185.4	176.3	157.6	143.4	133.8	125.1	121.9	120.6	117.8
70°	168.5	162.1	153.9	146.1	132.0	119.6	111.0	107.8	103.2	102.8	99.6
72.5°	138.8	131.1	125.1	119.2	108.7	97.7	93.2	88.6	86.3	84.5	83.1
75°	110.1	104.6	100.5	95.4	86.3	79.0	72.6	70.8	69.4	69.0	68.0
77.5°	82.2	78.5	76.7	71.7	65.3	58.9	56.2	53.4	53.4	52.5	53.0
80°	58.5	56.2	53.9	51.1	45.7	42.9	40.6	38.8	37.9	37.4	37.9
82.5°	37.0	35.6	35.2	33.3	29.7	28.3	26.5	25.1	25.1	25.1	25.1
85°	20.6	20.6	20.6	17.8	16.4	15.1	14.2	13.7	13.7	13.7	14.2
87.5°	8.7	8.7	7.3	7.3	6.9	5.9	5.5	5.5	5.9	5.9	6.4
90°	12.6	11.3	10.6	9.7	7.8	6.0	4.1	2.3	4.1	6.0	7.8
92.5°	11.8	10.5	9.8	10.0	10.3	10.7	11.0	11.4	11.0	10.7	10.3
95°	16.2	16.0	15.9	18.8	24.5	30.2	35.9	41.6	35.9	30.2	24.5
97.5°	69.6	87.3	96.1	94.3	90.6	86.9	83.2	79.5	83.2	86.9	90.6
100°	103.0	126.2	137.8	136.3	133.3	130.2	127.2	124.2	127.2	130.2	133.3
102.5°	186.2	184.2	183.2	182.2	180.2	178.1	176.1	174.1	176.1	178.1	180.2
105°	233.7	232.8	232.4	231.9	230.9	229.9	228.9	227.9	228.9	229.9	230.9
107.5°	281.1	279.9	279.3	279.1	278.6	278.1	277.6	277.1	277.6	278.1	278.6
110°	330.8	329.8	329.3	329.0	328.5	328.0	327.5	327.0	327.5	328.0	328.5

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	380.5	380.2	380.0	379.5	378.5	377.5	376.5	375.5	376.5	377.5	378.5
115°	427.5	427.6	427.7	427.4	426.9	426.4	425.9	425.4	425.9	426.4	426.9
117.5°	473.9	473.4	473.1	472.8	472.1	471.4	470.8	470.1	470.8	471.4	472.1
120°	518.3	518.5	518.6	518.3	517.6	516.9	516.2	515.5	516.2	516.9	517.6
122.5°	559.9	559.6	559.4	559.2	558.9	558.6	558.2	557.9	558.2	558.6	558.9
125°	600.6	600.9	601.1	600.8	600.1	599.4	598.7	598.0	598.7	599.4	600.1
127.5°	638.7	637.8	637.4	637.3	637.2	637.0	636.9	636.7	636.9	637.0	637.2
130°	675.3	674.8	674.5	674.4	674.2	674.1	673.9	673.7	673.9	674.1	674.2
132.5°	710.3	709.6	709.3	709.1	708.8	708.5	708.1	707.8	708.1	708.5	708.8
135°	742.1	741.4	741.1	741.2	741.4	741.5	741.7	741.9	741.7	741.5	741.4
137.5°	773.4	772.6	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2
140°	803.7	803.4	803.2	803.0	802.7	802.4	802.0	801.7	802.0	802.4	802.7
142.5°	831.5	831.3	831.2	830.9	830.2	829.5	828.9	828.2	828.9	829.5	830.2
145°	857.7	857.7	857.7	857.4	856.9	856.4	855.9	855.4	855.9	856.4	856.9
147.5°	880.9	881.1	881.2	880.7	879.7	878.6	877.6	876.6	877.6	878.6	879.7
150°	902.9	903.0	903.1	902.8	902.1	901.4	900.8	900.1	900.8	901.4	902.1
152.5°	921.6	921.9	922.1	921.8	921.3	920.8	920.3	919.8	920.3	920.8	921.3
155°	937.9	938.4	938.7	938.6	938.4	938.3	938.1	937.9	938.1	938.3	938.4
157.5°	952.8	953.5	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
160°	964.9	965.1	965.2	965.5	966.0	966.5	967.0	967.5	967.0	966.5	966.0
162.5°	976.3	976.5	976.6	976.9	977.6	978.3	978.9	979.6	978.9	978.3	977.6
165°	985.6	985.6	985.6	986.0	986.9	987.7	988.6	989.4	988.6	987.7	986.9
167.5°	993.7	993.9	994.0	994.4	995.3	996.1	997.0	997.8	997.0	996.1	995.3
170°	1000.3	1000.1	1000.0	1000.5	1001.5	1002.6	1003.6	1004.6	1003.6	1002.6	1001.5
172.5°	1004.8	1004.7	1004.6	1005.1	1006.1	1007.1	1008.1	1009.1	1008.1	1007.1	1006.1
175°	1007.9	1007.7	1007.6	1008.1	1009.1	1010.1	1011.1	1012.1	1011.1	1010.1	1009.1
177.5°	1009.6	1009.3	1009.1	1009.7	1010.9	1012.0	1013.2	1014.4	1013.2	1012.0	1010.9
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	543.0	541.2	542.1	537.5	533.4	527.5	522.4	521.5	520.6	523.3	521.5
5°	527.5	525.2	522.9	517.4	509.2	504.2	496.9	496.4	493.7	489.6	490.5
7.5°	510.6	509.2	506.0	497.3	490.0	481.3	475.4	470.4	468.1	464.4	463.1
10°	496.9	491.8	489.1	479.5	470.8	461.7	453.9	450.3	446.2	443.0	440.7
12.5°	478.1	476.8	469.0	461.2	453.9	443.4	437.5	427.0	421.5	424.2	423.3
15°	465.8	459.4	457.6	446.6	434.3	427.4	416.5	409.6	407.4	403.2	398.2
17.5°	449.4	445.3	438.9	428.8	414.7	405.1	397.3	390.9	388.2	382.7	378.6
20°	433.8	427.0	422.0	412.8	399.1	386.8	377.2	373.1	366.2	361.7	359.4
22.5°	419.7	414.7	407.4	393.6	381.8	369.9	358.5	352.5	346.2	343.4	339.8
25°	402.3	394.1	389.1	374.0	361.2	351.6	341.1	333.4	329.7	325.1	324.2
27.5°	385.4	377.7	371.7	358.5	343.0	330.6	324.2	318.8	312.4	312.4	310.1
30°	368.5	363.1	353.9	341.1	326.5	314.6	307.3	302.3	300.0	298.2	297.7
32.5°	351.6	344.3	338.8	321.5	310.5	299.6	294.1	290.0	287.2	286.8	287.2
35°	334.3	326.1	320.6	305.1	294.1	284.0	281.8	278.1	276.7	276.3	278.6
37.5°	316.0	309.6	302.8	290.0	277.7	271.7	267.2	265.8	265.3	268.1	269.0
40°	299.1	293.6	287.2	273.5	264.4	258.0	255.7	254.4	256.2	258.9	260.3
42.5°	283.1	275.4	270.3	258.0	249.8	246.1	243.4	243.4	245.2	248.4	250.7
45°	266.2	260.3	255.3	244.3	237.0	232.9	232.4	232.9	235.2	237.5	240.2
47.5°	249.8	243.9	238.4	229.2	222.9	220.6	220.1	220.6	224.2	227.4	230.6
50°	234.7	228.3	223.3	214.6	209.6	206.9	207.3	209.6	212.4	216.9	221.0
52.5°	216.9	212.4	207.8	200.0	195.5	193.6	195.0	196.8	201.8	205.0	210.1
55°	199.6	195.5	191.8	185.9	182.2	180.8	181.8	184.5	188.6	194.1	200.0
57.5°	183.6	179.0	175.4	171.3	167.1	167.6	168.1	171.7	176.7	181.8	188.6
60°	165.8	163.0	159.8	154.8	153.0	153.0	154.4	158.5	163.0	171.3	177.2
62.5°	149.8	146.1	143.9	140.7	137.9	138.4	141.6	145.2	150.7	157.6	165.3
65°	133.3	129.2	127.4	124.7	123.8	124.2	126.5	132.0	137.9	143.9	151.2
67.5°	115.1	113.7	111.9	109.1	110.1	110.5	112.8	117.4	123.8	129.7	137.9
70°	99.6	96.8	96.4	94.1	94.1	95.4	100.0	103.2	109.1	115.5	124.2
72.5°	83.1	80.8	80.8	79.0	80.4	81.7	84.0	88.6	94.1	100.5	107.8
75°	66.2	65.3	66.2	65.3	65.3	67.6	70.3	74.0	79.9	86.8	92.7
77.5°	51.1	51.1	50.7	52.1	52.1	53.4	57.1	60.7	65.3	70.8	77.2
80°	37.4	37.4	37.4	38.8	40.2	40.2	42.5	47.0	51.1	54.8	60.7
82.5°	25.6	25.6	25.6	26.5	28.3	28.3	31.1	33.8	38.4	41.6	44.3
85°	15.5	15.5	15.1	16.0	16.4	17.8	20.1	21.9	24.2	26.9	29.7
87.5°	6.9	6.9	7.3	7.8	8.2	9.1	10.0	11.0	13.2	14.2	15.5
90°	9.7	10.6	11.3	12.6	14.0	15.3	16.7	17.7	18.7	19.7	20.7
92.5°	10.0	9.8	10.5	11.8	13.2	14.5	15.9	16.9	17.9	18.9	19.9
95°	18.8	15.9	16.0	16.2	16.3	16.5	16.7	17.7	18.7	19.7	20.7
97.5°	94.3	96.1	87.3	69.6	52.0	34.3	16.7	17.5	18.3	19.2	20.0
100°	136.3	137.8	126.2	103.0	79.7	56.5	33.3	30.4	27.6	24.7	21.8
102.5°	182.2	183.2	184.2	186.2	188.3	190.3	192.3	154.5	116.6	78.8	40.9
105°	231.9	232.4	232.8	233.7	234.5	235.4	236.2	237.7	239.2	240.7	242.2
107.5°	279.1	279.3	279.9	281.1	282.2	283.4	284.6	285.4	286.3	287.1	288.0
110°	329.0	329.3	329.8	330.8	331.8	332.8	333.8	334.2	334.5	334.9	335.2

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	379.5	380.0	380.2	380.5	380.8	381.2	381.5	381.3	381.2	381.0	380.9
115°	427.4	427.7	427.6	427.5	427.3	427.2	427.0	427.3	427.7	428.0	428.3
117.5°	472.8	473.1	473.4	473.9	474.4	474.9	475.4	475.2	475.1	474.9	474.8
120°	518.3	518.6	518.5	518.3	518.2	518.0	517.8	518.1	518.5	518.8	519.1
122.5°	559.2	559.4	559.6	559.9	560.3	560.6	561.0	561.2	561.3	561.5	561.6
125°	600.8	601.1	600.9	600.6	600.3	599.9	599.6	600.1	600.6	601.1	601.6
127.5°	637.3	637.4	637.8	638.7	639.5	640.4	641.2	641.0	640.8	640.7	640.5
130°	674.4	674.5	674.8	675.3	675.8	676.3	676.8	677.0	677.1	677.3	677.4
132.5°	709.1	709.3	709.6	710.3	711.0	711.7	712.4	712.6	712.7	712.9	713.0
135°	741.2	741.1	741.4	742.1	742.8	743.5	744.2	744.5	744.9	745.2	745.5
137.5°	772.2	772.2	772.6	773.4	774.3	775.1	775.9	776.3	776.6	777.0	777.3
140°	803.0	803.2	803.4	803.7	804.0	804.4	804.7	805.2	805.7	806.2	806.7
142.5°	830.9	831.2	831.3	831.5	831.6	831.8	832.0	832.3	832.7	833.0	833.3
145°	857.4	857.7	857.7	857.7	857.7	857.7	857.7	857.9	858.1	858.2	858.4
147.5°	880.7	881.2	881.1	880.9	880.8	880.6	880.4	880.6	880.8	880.9	881.1
150°	902.8	903.1	903.0	902.9	902.7	902.6	902.4	902.4	902.4	902.4	902.4
152.5°	921.8	922.1	921.9	921.6	921.2	920.9	920.5	920.9	921.2	921.6	921.9
155°	938.6	938.7	938.4	937.9	937.4	936.9	936.4	937.1	937.8	938.5	939.2
157.5°	953.8	953.8	953.5	952.8	952.1	951.5	950.8	951.6	952.5	953.3	954.2
160°	965.5	965.2	965.1	964.9	964.8	964.6	964.4	965.4	966.4	967.5	968.5
162.5°	976.9	976.6	976.5	976.3	976.2	976.0	975.8	976.8	977.8	978.8	979.8
165°	986.0	985.6	985.6	985.6	985.6	985.6	985.6	987.0	988.3	989.7	991.0
167.5°	994.4	994.0	993.9	993.7	993.6	993.4	993.2	994.7	996.2	997.7	999.2
170°	1000.5	1000.0	1000.1	1000.3	1000.4	1000.6	1000.8	1002.1	1003.5	1004.8	1006.1
172.5°	1005.1	1004.6	1004.7	1004.8	1005.0	1005.1	1005.3	1006.7	1008.0	1009.4	1010.7
175°	1008.1	1007.6	1007.7	1007.9	1008.0	1008.2	1008.4	1009.9	1011.4	1012.9	1014.4
177.5°	1009.7	1009.1	1009.3	1009.6	1009.9	1010.3	1010.6	1012.0	1013.3	1014.7	1016.0
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	520.1	519.7	517.4	518.3	515.6	516.5	517.9	518.3	520.1	518.8	518.3
5°	488.2	487.3	485.9	484.5	484.1	485.9	482.7	483.6	484.5	485.9	487.7
7.5°	462.2	461.7	460.3	458.0	457.1	456.2	456.7	459.9	459.4	459.0	462.2
10°	438.4	438.9	436.1	435.7	432.9	432.5	432.9	433.8	435.2	437.0	437.5
12.5°	413.7	419.7	414.7	412.8	408.7	411.0	411.9	407.8	410.1	411.5	418.3
15°	398.2	395.5	392.3	392.3	390.5	389.5	387.3	390.5	392.3	395.0	394.1
17.5°	376.8	372.2	370.4	368.5	369.0	370.8	365.8	373.1	373.1	374.5	372.2
20°	358.0	354.4	352.1	351.2	349.8	348.9	348.4	350.3	353.0	353.9	356.2
22.5°	338.4	338.4	334.7	333.4	332.5	331.1	333.4	332.0	333.8	335.7	339.3
25°	322.0	322.0	320.6	318.8	317.4	316.5	317.8	317.4	318.8	321.0	322.0
27.5°	308.7	307.3	306.9	306.4	306.0	306.4	306.0	307.3	308.7	309.2	308.3
30°	297.3	295.9	296.4	296.4	296.8	296.4	295.9	297.3	297.7	296.8	297.3
32.5°	286.8	286.8	287.7	288.2	288.2	288.6	289.1	288.2	288.6	287.2	287.7
35°	278.1	279.0	279.9	280.4	280.9	280.4	281.3	280.9	279.9	279.0	278.6
37.5°	269.4	270.3	272.2	272.6	274.0	274.5	273.5	273.5	273.1	271.3	270.3
40°	260.3	261.2	263.5	264.9	265.8	267.2	266.2	266.2	264.4	262.6	261.2
42.5°	251.6	253.5	255.7	257.1	258.9	258.9	258.9	258.0	255.7	253.9	252.5
45°	242.9	243.4	246.6	248.9	250.7	250.7	250.7	249.3	248.0	244.3	242.5
47.5°	233.4	234.7	238.4	240.7	242.5	242.9	242.9	241.6	238.8	235.6	233.4
50°	222.9	225.1	229.2	232.4	234.7	235.6	234.3	233.4	230.2	226.5	223.8
52.5°	212.8	215.5	220.6	223.3	226.5	227.0	226.5	225.1	221.5	216.5	214.2
55°	202.8	205.0	210.5	215.1	217.8	218.7	217.8	215.5	211.0	206.0	203.7
57.5°	191.8	195.0	200.9	205.5	208.7	209.2	208.2	206.0	202.3	195.9	192.7
60°	180.4	184.5	190.4	195.0	199.1	199.6	198.7	195.5	190.9	184.5	181.8
62.5°	169.0	172.2	179.0	184.0	187.2	189.5	187.7	184.5	179.9	173.5	169.4
65°	155.7	160.3	166.2	170.8	174.4	174.9	174.0	171.3	166.2	159.4	156.2
67.5°	142.9	146.1	152.1	158.0	159.4	160.7	159.4	156.6	152.5	146.6	142.0
70°	127.4	130.2	137.5	141.6	143.4	144.8	143.9	141.1	137.5	132.0	128.3
72.5°	111.9	114.2	121.0	124.2	127.9	127.4	127.0	125.1	120.1	116.5	114.2
75°	95.4	98.2	102.8	106.9	108.2	108.2	108.2	106.9	103.7	97.7	95.4
77.5°	80.4	81.7	85.4	87.7	89.1	89.5	89.1	86.8	84.9	80.8	79.5
80°	61.7	65.3	68.0	68.5	70.3	70.3	70.3	69.4	67.6	63.5	63.0
82.5°	46.6	47.5	50.2	51.6	52.5	52.1	52.1	50.2	49.8	47.5	46.6
85°	31.5	32.9	32.4	34.3	34.7	33.8	33.8	34.7	32.4	32.9	31.5
87.5°	17.4	17.4	18.3	17.8	19.6	19.6	18.7	19.2	18.3	17.8	17.4
90°	21.2	21.4	21.7	22.0	22.4	22.7	22.4	22.0	21.7	21.4	21.2
92.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
95°	21.2	21.3	21.5	21.6	21.8	22.0	21.8	21.6	21.5	21.3	21.2
97.5°	20.4	20.5	20.7	20.8	21.0	21.2	21.0	20.8	20.7	20.5	20.4
100°	20.4	20.5	20.7	20.8	21.0	21.2	21.0	20.8	20.7	20.5	20.4
102.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
105°	243.0	240.0	233.9	227.9	221.8	215.8	221.8	227.9	233.9	240.0	243.0
107.5°	288.4	288.7	289.4	290.1	290.8	291.5	290.8	290.1	289.4	288.7	288.4
110°	335.4	335.6	336.1	336.6	337.1	337.6	337.1	336.6	336.1	335.6	335.4

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	380.8	381.1	381.8	382.5	383.1	383.8	383.1	382.5	381.8	381.1	380.8
115°	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5
117.5°	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7
120°	519.3	519.1	518.8	518.5	518.1	517.8	518.1	518.5	518.8	519.1	519.3
122.5°	561.7	561.5	561.2	560.9	560.5	560.2	560.5	560.9	561.2	561.5	561.7
125°	601.8	601.9	602.1	602.2	602.4	602.6	602.4	602.2	602.1	601.9	601.8
127.5°	640.4	640.3	640.2	640.0	639.9	639.7	639.9	640.0	640.2	640.3	640.4
130°	677.5	677.5	677.5	677.5	677.5	677.5	677.5	677.5	677.5	677.5	677.5
132.5°	713.1	713.0	712.9	712.7	712.6	712.4	712.6	712.7	712.9	713.0	713.1
135°	745.7	745.9	746.2	746.5	746.9	747.2	746.9	746.5	746.2	745.9	745.7
137.5°	777.5	777.4	777.2	777.1	776.9	776.7	776.9	777.1	777.2	777.4	777.5
140°	807.0	807.1	807.2	807.4	807.5	807.7	807.5	807.4	807.2	807.1	807.0
142.5°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
145°	858.5	858.7	859.0	859.3	859.7	860.0	859.7	859.3	859.0	858.7	858.5
147.5°	881.2	881.3	881.4	881.6	881.7	881.9	881.7	881.6	881.4	881.3	881.2
150°	902.4	902.5	902.6	902.8	902.9	903.1	902.9	902.8	902.6	902.5	902.4
152.5°	922.1	922.0	921.8	921.7	921.5	921.3	921.5	921.7	921.8	922.0	922.1
155°	939.5	939.2	938.7	938.2	937.7	937.2	937.7	938.2	938.7	939.2	939.5
157.5°	954.6	954.2	953.3	952.5	951.6	950.8	951.6	952.5	953.3	954.2	954.6
160°	969.0	968.5	967.5	966.4	965.4	964.4	965.4	966.4	967.5	968.5	969.0
162.5°	980.3	979.7	978.5	977.4	976.2	975.0	976.2	977.4	978.5	979.7	980.3
165°	991.7	990.9	989.4	987.9	986.4	984.9	986.4	987.9	989.4	990.9	991.7
167.5°	1000.0	999.2	997.5	995.8	994.2	992.5	994.2	995.8	997.5	999.2	1000.0
170°	1006.8	1006.0	1004.3	1002.6	1001.0	999.3	1001.0	1002.6	1004.3	1006.0	1006.8
172.5°	1011.4	1010.5	1008.6	1006.8	1004.9	1003.1	1004.9	1006.8	1008.6	1010.5	1011.4
175°	1015.2	1014.2	1012.2	1010.1	1008.1	1006.1	1008.1	1010.1	1012.2	1014.2	1015.2
177.5°	1016.7	1015.7	1013.7	1011.6	1009.6	1007.6	1009.6	1011.6	1013.7	1015.7	1016.7
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	518.3	521.1	518.3	520.1	521.1	523.3	524.3	528.4	529.7	532.9	532.9
5°	487.3	488.6	489.1	490.9	492.7	497.3	500.5	506.4	513.3	514.2	518.3
7.5°	462.2	464.4	468.1	466.7	469.9	476.8	480.9	488.2	495.0	498.7	503.7
10°	439.8	442.5	443.9	445.3	451.2	457.1	463.5	468.5	477.7	483.2	487.3
12.5°	421.5	419.2	422.0	427.0	433.8	437.5	446.2	453.9	460.8	466.7	470.4
15°	397.8	399.6	402.3	411.0	412.8	422.0	425.2	433.8	446.6	452.1	456.7
17.5°	374.9	380.9	386.3	389.5	395.0	402.3	411.5	421.1	429.3	435.7	441.1
20°	356.7	362.6	365.8	368.1	373.6	383.6	392.3	404.2	414.7	419.7	427.0
22.5°	342.0	342.0	346.6	353.5	356.7	366.2	373.6	386.3	397.8	404.2	411.0
25°	323.8	326.5	330.2	336.1	340.7	348.4	358.9	369.9	382.2	387.7	396.4
27.5°	308.7	311.9	316.9	318.3	322.9	329.7	340.7	352.5	365.3	371.3	378.6
30°	297.3	299.1	300.9	303.7	307.8	313.7	322.9	333.4	348.9	353.5	362.6
32.5°	287.2	288.2	289.1	291.4	293.6	299.6	306.9	318.3	331.1	337.9	346.2
35°	278.1	277.2	277.7	279.0	281.3	283.6	291.4	300.9	312.8	321.0	327.4
37.5°	269.4	267.6	267.2	267.2	268.1	270.8	276.7	285.0	297.7	304.6	311.0
40°	259.8	258.0	257.1	256.6	256.2	258.0	262.6	270.8	280.9	287.2	294.6
42.5°	250.7	248.9	246.6	246.1	245.2	246.1	249.3	257.1	265.8	272.2	278.1
45°	241.6	238.4	235.6	233.8	234.3	232.9	235.2	241.1	251.2	255.3	261.2
47.5°	231.5	227.9	224.2	222.4	220.6	221.5	222.4	227.4	236.1	240.2	246.1
50°	221.9	216.9	212.8	210.5	209.2	208.2	209.2	214.2	220.6	224.2	229.2
52.5°	211.0	206.0	201.8	198.2	196.4	195.0	195.5	200.0	206.0	209.6	214.6
55°	200.9	194.5	189.1	184.5	183.1	182.7	182.2	185.4	190.4	194.1	198.2
57.5°	189.5	183.1	177.2	171.7	169.0	168.5	168.5	169.4	175.8	178.6	180.8
60°	178.1	171.3	164.9	159.8	155.7	154.4	153.9	155.7	158.9	161.7	164.9
62.5°	165.3	158.5	150.7	146.1	142.0	138.4	139.7	140.2	144.8	146.1	148.9
65°	153.0	145.2	138.8	131.5	127.0	124.7	123.8	124.7	128.3	128.8	130.6
67.5°	138.8	131.5	123.8	118.7	114.6	110.5	109.6	109.6	111.4	112.8	115.1
70°	125.1	117.8	109.1	103.7	99.6	95.9	94.5	94.1	95.4	96.4	98.6
72.5°	109.1	101.8	95.4	89.5	84.5	81.7	80.4	79.5	80.8	81.7	82.2
75°	92.2	86.3	79.9	74.0	70.8	68.0	66.2	64.8	65.8	65.8	65.8
77.5°	76.3	70.3	65.3	61.2	57.1	53.9	52.5	51.1	51.6	51.6	52.5
80°	59.4	55.3	51.1	47.5	43.8	41.1	40.2	38.8	37.9	37.4	37.4
82.5°	43.8	40.6	37.0	33.8	32.0	29.2	28.3	26.5	26.5	26.0	26.0
85°	29.2	27.4	23.7	21.5	20.1	18.7	17.8	16.9	15.5	15.5	15.1
87.5°	15.5	14.6	13.7	11.0	11.0	9.6	9.1	8.7	7.3	7.8	7.8
90°	20.7	19.7	18.7	17.7	16.7	15.3	14.0	12.6	11.3	10.6	9.7
92.5°	19.9	18.9	17.9	16.9	15.9	14.5	13.2	11.8	10.5	9.8	10.0
95°	20.7	19.7	18.7	17.7	16.7	16.5	16.3	16.2	16.0	15.9	18.8
97.5°	20.0	19.2	18.3	17.5	16.7	34.3	52.0	69.6	87.3	96.1	94.3
100°	21.8	24.7	27.6	30.4	33.3	56.5	79.7	103.0	126.2	137.8	136.3
102.5°	40.9	78.8	116.6	154.5	192.3	190.3	188.3	186.2	184.2	183.2	182.2
105°	242.2	240.7	239.2	237.7	236.2	235.4	234.5	233.7	232.8	232.4	231.9
107.5°	288.0	287.1	286.3	285.4	284.6	283.4	282.2	281.1	279.9	279.3	279.1
110°	335.2	334.9	334.5	334.2	333.8	332.8	331.8	330.8	329.8	329.3	329.0

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	380.9	381.0	381.2	381.3	381.5	381.2	380.8	380.5	380.2	380.0	379.5
115°	428.3	428.0	427.7	427.3	427.0	427.2	427.3	427.5	427.6	427.7	427.4
117.5°	474.8	474.9	475.1	475.2	475.4	474.9	474.4	473.9	473.4	473.1	472.8
120°	519.1	518.8	518.5	518.1	517.8	518.0	518.2	518.3	518.5	518.6	518.3
122.5°	561.6	561.5	561.3	561.2	561.0	560.6	560.3	559.9	559.6	559.4	559.2
125°	601.6	601.1	600.6	600.1	599.6	599.9	600.3	600.6	600.9	601.1	600.8
127.5°	640.5	640.7	640.8	641.0	641.2	640.4	639.5	638.7	637.8	637.4	637.3
130°	677.4	677.3	677.1	677.0	676.8	676.3	675.8	675.3	674.8	674.5	674.4
132.5°	713.0	712.9	712.7	712.6	712.4	711.7	711.0	710.3	709.6	709.3	709.1
135°	745.5	745.2	744.9	744.5	744.2	743.5	742.8	742.1	741.4	741.1	741.2
137.5°	777.3	777.0	776.6	776.3	775.9	775.1	774.3	773.4	772.6	772.2	772.2
140°	806.7	806.2	805.7	805.2	804.7	804.4	804.0	803.7	803.4	803.2	803.0
142.5°	833.3	833.0	832.7	832.3	832.0	831.8	831.6	831.5	831.3	831.2	830.9
145°	858.4	858.2	858.1	857.9	857.7	857.7	857.7	857.7	857.7	857.7	857.4
147.5°	881.1	880.9	880.8	880.6	880.4	880.6	880.8	880.9	881.1	881.2	880.7
150°	902.4	902.4	902.4	902.4	902.4	902.6	902.7	902.9	903.0	903.1	902.8
152.5°	921.9	921.6	921.2	920.9	920.5	920.9	921.2	921.6	921.9	922.1	921.8
155°	939.2	938.5	937.8	937.1	936.4	936.9	937.4	937.9	938.4	938.7	938.6
157.5°	954.2	953.3	952.5	951.6	950.8	951.5	952.1	952.8	953.5	953.8	953.8
160°	968.5	967.5	966.4	965.4	964.4	964.6	964.8	964.9	965.1	965.2	965.5
162.5°	979.8	978.8	977.8	976.8	975.8	976.0	976.2	976.3	976.5	976.6	976.9
165°	991.0	989.7	988.3	987.0	985.6	985.6	985.6	985.6	985.6	985.6	986.0
167.5°	999.2	997.7	996.2	994.7	993.2	993.4	993.6	993.7	993.9	994.0	994.4
170°	1006.1	1004.8	1003.5	1002.1	1000.8	1000.6	1000.4	1000.3	1000.1	1000.0	1000.5
172.5°	1010.7	1009.4	1008.0	1006.7	1005.3	1005.1	1005.0	1004.8	1004.7	1004.6	1005.1
175°	1014.4	1012.9	1011.4	1009.9	1008.4	1008.2	1008.0	1007.9	1007.7	1007.6	1008.1
177.5°	1016.0	1014.7	1013.3	1012.0	1010.6	1010.3	1009.9	1009.6	1009.3	1009.1	1009.7
180°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	551.2	551.2	551.2	551.2
2.5°	536.1	540.7	544.8	551.2
5°	524.3	530.7	539.3	548.9
7.5°	510.6	520.6	532.0	545.3
10°	497.8	509.2	523.8	539.8
12.5°	484.5	498.2	514.2	531.6
15°	469.5	483.2	501.0	524.3
17.5°	455.8	472.2	491.4	516.0
20°	439.8	455.3	476.3	504.6
22.5°	425.6	443.4	466.7	491.4
25°	410.1	425.6	448.9	478.6
27.5°	394.6	413.7	436.1	464.9
30°	379.5	395.5	419.7	449.8
32.5°	363.1	382.2	404.6	432.9
35°	345.2	363.5	384.5	415.1
37.5°	329.3	347.1	368.5	395.5
40°	311.4	330.2	349.8	376.8
42.5°	294.1	311.0	330.6	355.3
45°	277.2	291.8	309.6	331.1
47.5°	259.8	272.2	288.6	307.8
50°	241.1	254.4	266.7	282.7
52.5°	223.8	235.2	245.2	258.5
55°	206.9	214.6	222.9	232.9
57.5°	189.1	195.0	200.9	211.4
60°	171.3	176.7	179.9	186.8
62.5°	153.9	156.2	160.3	164.4
65°	134.7	137.9	140.2	145.2
67.5°	117.4	118.7	121.0	124.2
70°	99.1	102.3	103.2	105.5
72.5°	83.6	84.9	85.9	86.3
75°	66.2	67.6	68.5	71.2
77.5°	52.1	51.6	53.4	53.9
80°	38.4	37.0	37.4	39.3
82.5°	25.1	25.6	25.1	25.1
85°	15.5	15.1	14.2	14.6
87.5°	6.9	6.9	6.4	6.4
90°	7.8	6.0	4.1	2.3
92.5°	10.3	10.7	11.0	11.4
95°	24.5	30.2	35.9	41.6
97.5°	90.6	86.9	83.2	79.5
100°	133.3	130.2	127.2	124.2
102.5°	180.2	178.1	176.1	174.1
105°	230.9	229.9	228.9	227.9
107.5°	278.6	278.1	277.6	277.1
110°	328.5	328.0	327.5	327.0

TEST NUMBER: P1001349

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	378.5	377.5	376.5	375.5
115°	426.9	426.4	425.9	425.4
117.5°	472.1	471.4	470.8	470.1
120°	517.6	516.9	516.2	515.5
122.5°	558.9	558.6	558.2	557.9
125°	600.1	599.4	598.7	598.0
127.5°	637.2	637.0	636.9	636.7
130°	674.2	674.1	673.9	673.7
132.5°	708.8	708.5	708.1	707.8
135°	741.4	741.5	741.7	741.9
137.5°	772.2	772.2	772.2	772.2
140°	802.7	802.4	802.0	801.7
142.5°	830.2	829.5	828.9	828.2
145°	856.9	856.4	855.9	855.4
147.5°	879.7	878.6	877.6	876.6
150°	902.1	901.4	900.8	900.1
152.5°	921.3	920.8	920.3	919.8
155°	938.4	938.3	938.1	937.9
157.5°	953.8	953.8	953.8	953.8
160°	966.0	966.5	967.0	967.5
162.5°	977.6	978.3	978.9	979.6
165°	986.9	987.7	988.6	989.4
167.5°	995.3	996.1	997.0	997.8
170°	1001.5	1002.6	1003.6	1004.6
172.5°	1006.1	1007.1	1008.1	1009.1
175°	1009.1	1010.1	1011.1	1012.1
177.5°	1010.9	1012.0	1013.2	1014.4
180°	1012.1	1012.1	1012.1	1012.1

(END OF REPORT)