

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: P1001351

Luminaire Tested: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001351
REPORT IS A COMBINATION OF REPORTS P995970 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

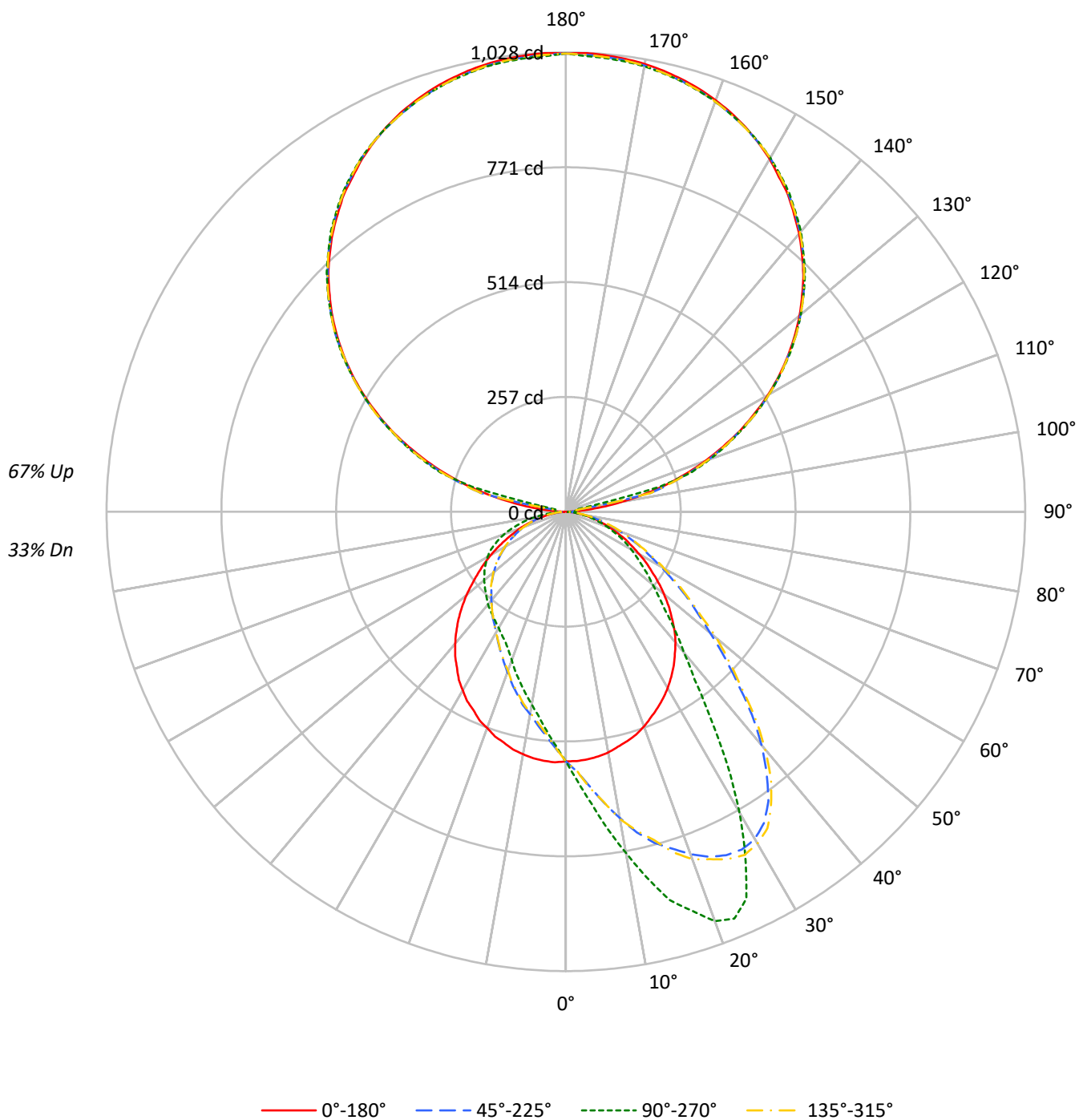
Lumens per Lamp: N/A
Luminaire Lumens: 4716.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1001351

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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°	4553	4553	4553	4553
5°	4542	5224	4569	3926
10°	4509	6095	4542	3444
15°	4455	7027	4486	3082
20°	4397	7620	4429	2763
25°	4313	7532	4354	2527
30°	4230	6225	4282	2407
35°	4115	4639	4160	2333
40°	3980	3495	4018	2297
45°	3774	2805	3821	2248
50°	3528	2363	3580	2225
55°	3240	2057	3290	2199
60°	2958	1811	3045	2163
65°	2694	1559	2720	2072
70°	2385	1282	2436	1909
75°	2081	985	2066	1622
80°	1637	648	1616	1232
85°	1077	291	1011	717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5888 cd/sqm

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.2
10°-20°	167.8	3.6
20°-30°	266.5	5.7
30°-40°	296.1	6.3
40°-50°	269.3	5.7
50°-60°	220.1	4.7
60°-70°	157.1	3.3
70°-80°	86.4	1.8
80°-90°	25.5	0.5
90°-100°	34.0	0.7
100°-110°	224.1	4.8
110°-120°	428.0	9.1
120°-130°	543.4	11.5
130°-140°	581.3	12.3
140°-150°	543.6	11.5
150°-160°	438.3	9.3
160°-170°	282.7	6.0
170°-180°	97.4	2.1
0°-30°	488.6	10.4
0°-40°	784.7	16.6
0°-60°	1274.1	27.0
0°-90°	1543.1	32.7
90°-120°	686.2	14.6
90°-150°	2354.4	49.9
90°-180°	3173.0	67.3
0°-180°	4716.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	558	558	558	558	558	
5°	556	655	559	492	556	53
15°	531	900	535	395	531	150
25°	485	955	490	321	485	223
35°	421	565	425	284	421	263
45°	335	317	340	254	335	259
55°	236	207	240	222	236	212
65°	147	133	148	177	147	145
75°	72	67	72	110	72	76
85°	15	14	14	34	15	17
90°	2	23	2	23	2	3
95°	42	22	42	22	42	52
105°	231	219	231	219	231	242
115°	431	434	431	434	431	424
125°	606	610	606	610	606	541
135°	752	757	752	757	752	579
145°	867	871	867	871	867	542
155°	950	950	950	950	950	438
165°	1002	998	1002	998	1002	283
175°	1025	1019	1025	1019	1025	98
180°	1025	1025	1025	1025	1025	

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	558.4	564.0	566.3	568.2	574.2	576.0	576.5	579.3	581.6	582.0	582.0
5°	556.1	564.9	571.9	578.3	588.1	592.2	597.3	602.9	610.3	614.9	617.2
7.5°	552.4	565.4	576.0	587.1	600.6	608.9	613.5	628.3	638.5	646.8	657.0
10°	546.9	563.5	578.8	595.0	614.0	624.1	634.3	652.4	666.7	682.9	695.9
12.5°	538.6	560.3	578.8	601.5	625.1	637.1	649.1	680.6	697.3	711.6	734.7
15°	531.2	552.9	579.3	602.4	631.6	649.6	667.2	687.5	713.9	744.9	767.1
17.5°	522.8	550.1	574.6	607.0	639.4	656.5	670.9	702.3	739.4	769.9	790.2
20°	511.3	539.0	571.4	605.6	644.0	657.5	676.4	718.5	751.8	781.9	815.2
22.5°	497.8	530.2	564.5	597.3	637.1	665.3	686.1	723.2	763.4	798.1	835.6
25°	484.9	520.0	550.1	595.0	637.1	656.1	679.7	723.6	767.6	809.7	848.1
27.5°	471.0	503.9	544.6	580.2	627.9	648.7	674.1	722.2	769.0	811.1	852.2
30°	455.7	490.9	524.7	566.8	613.0	639.9	663.5	715.8	763.4	807.4	845.8
32.5°	438.6	471.9	508.0	547.8	596.4	623.7	653.3	707.0	757.9	795.8	825.4
35°	420.6	454.3	485.8	526.5	576.5	603.8	632.5	691.7	742.1	773.1	790.2
37.5°	400.7	432.6	463.6	503.9	553.8	583.0	612.1	669.5	717.1	743.1	738.4
40°	381.7	410.4	439.1	477.0	529.3	560.3	585.7	643.6	685.2	696.3	681.1
42.5°	360.0	384.5	412.2	451.1	502.0	531.2	563.1	615.8	646.8	642.2	616.3
45°	335.4	357.2	384.9	421.5	473.3	503.4	530.2	580.2	602.9	591.3	544.1
47.5°	311.8	333.1	355.8	392.3	442.8	468.2	495.5	540.4	553.4	528.8	481.6
50°	286.4	304.0	327.6	362.3	409.5	436.3	459.0	495.1	499.7	469.6	420.6
52.5°	261.9	276.7	299.4	333.6	377.5	398.8	421.0	453.0	449.3	418.3	371.1
55°	236.0	249.8	270.7	302.1	341.0	361.3	380.3	408.5	400.7	368.8	327.6
57.5°	214.2	223.9	244.3	273.4	305.4	327.6	343.8	366.0	353.9	322.0	283.6
60°	189.2	201.3	218.4	242.0	273.4	288.2	302.6	317.4	309.1	278.5	244.3
62.5°	166.6	175.8	190.6	213.3	237.8	251.2	266.5	275.8	267.4	239.2	210.5
65°	147.1	154.5	166.1	184.6	208.2	219.3	228.1	236.9	229.9	203.6	182.8
67.5°	125.8	132.3	142.0	156.8	176.7	184.6	192.9	199.0	191.1	173.5	153.1
70°	106.9	111.5	120.8	131.9	145.7	153.1	160.1	166.1	159.2	144.4	129.1
72.5°	87.4	91.1	99.5	107.3	119.8	124.9	130.0	134.6	132.3	118.4	106.0
75°	72.2	73.6	79.1	85.6	93.5	99.0	102.7	105.5	103.6	92.5	84.7
77.5°	54.6	56.4	60.6	65.7	72.6	75.9	78.2	81.0	78.7	69.9	64.3
80°	39.8	40.3	42.6	47.2	51.8	52.3	54.6	58.3	56.9	50.9	46.7
82.5°	25.4	26.8	27.8	30.5	33.8	34.7	36.1	37.0	36.6	32.8	31.5
85°	14.8	14.8	15.7	17.6	18.5	19.9	20.4	20.8	21.7	19.4	18.0
87.5°	6.5	6.9	6.9	7.4	8.3	8.3	8.8	9.3	9.7	9.3	7.9
90°	2.3	4.2	6.0	7.9	9.8	10.7	11.4	12.8	14.1	15.5	16.9
92.5°	11.5	11.2	10.8	10.5	10.2	10.0	10.7	12.0	13.4	14.7	16.1
95°	42.2	36.4	30.6	24.8	19.0	16.1	16.2	16.4	16.5	16.7	16.9
97.5°	80.5	84.3	88.0	91.8	95.5	97.4	88.5	70.6	52.7	34.8	16.9
100°	125.8	128.9	131.9	135.0	138.1	139.6	127.8	104.3	80.8	57.2	33.7
102.5°	176.4	178.4	180.5	182.5	184.6	185.6	186.6	188.7	190.7	192.8	194.8
105°	230.8	231.8	232.8	233.9	234.9	235.4	235.8	236.7	237.6	238.4	239.3
107.5°	280.7	281.2	281.7	282.2	282.7	283.0	283.6	284.8	286.0	287.2	288.4
110°	331.3	331.8	332.3	332.8	333.3	333.6	334.1	335.1	336.2	337.2	338.2

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	380.4	381.4	382.4	383.5	384.5	385.0	385.2	385.5	385.8	386.2	386.5
115°	431.0	431.5	432.0	432.5	433.0	433.3	433.2	433.0	432.9	432.7	432.5
117.5°	476.3	477.0	477.6	478.3	479.0	479.3	479.6	480.1	480.6	481.1	481.6
120°	522.3	523.0	523.6	524.3	525.0	525.3	525.2	525.1	524.9	524.8	524.6
122.5°	565.2	565.6	565.9	566.3	566.6	566.8	567.0	567.3	567.6	568.0	568.3
125°	605.9	606.6	607.2	607.9	608.6	608.9	608.7	608.4	608.1	607.7	607.4
127.5°	645.0	645.2	645.4	645.5	645.7	645.8	646.2	647.1	647.9	648.8	649.6
130°	682.6	682.8	682.9	683.1	683.2	683.3	683.6	684.1	684.6	685.1	685.6
132.5°	717.1	717.4	717.8	718.1	718.4	718.6	718.9	719.6	720.3	721.0	721.7
135°	751.6	751.4	751.2	751.1	750.9	750.8	751.1	751.8	752.5	753.2	753.9
137.5°	782.3	782.3	782.3	782.3	782.3	782.3	782.7	783.6	784.4	785.3	786.1
140°	812.2	812.5	812.9	813.2	813.5	813.7	813.9	814.2	814.5	814.9	815.2
142.5°	839.0	839.7	840.4	841.1	841.8	842.1	842.2	842.4	842.5	842.7	842.9
145°	866.6	867.1	867.6	868.1	868.6	868.9	868.9	868.9	868.9	868.9	868.9
147.5°	888.1	889.1	890.1	891.2	892.2	892.7	892.6	892.4	892.3	892.1	891.9
150°	911.9	912.6	913.2	913.9	914.6	914.9	914.8	914.7	914.5	914.4	914.2
152.5°	931.8	932.3	932.8	933.3	933.8	934.1	933.9	933.6	933.3	932.9	932.6
155°	950.2	950.4	950.6	950.7	950.9	951.0	950.7	950.2	949.7	949.2	948.7
157.5°	966.3	966.3	966.3	966.3	966.3	966.3	966.0	965.3	964.6	964.0	963.3
160°	980.1	979.6	979.1	978.6	978.1	977.8	977.7	977.6	977.4	977.3	977.1
162.5°	992.4	991.7	991.0	990.3	989.6	989.3	989.2	989.1	988.9	988.8	988.6
165°	1002.4	1001.5	1000.7	999.8	998.9	998.5	998.5	998.5	998.5	998.5	998.5
167.5°	1010.8	1010.0	1009.1	1008.3	1007.4	1007.0	1006.9	1006.7	1006.6	1006.4	1006.2
170°	1017.7	1016.7	1015.7	1014.6	1013.6	1013.1	1013.2	1013.4	1013.5	1013.7	1013.9
172.5°	1022.3	1021.3	1020.3	1019.2	1018.2	1017.7	1017.8	1018.0	1018.1	1018.3	1018.5
175°	1025.4	1024.4	1023.4	1022.3	1021.3	1020.8	1020.9	1021.0	1021.2	1021.3	1021.5
177.5°	1027.7	1026.5	1025.3	1024.1	1022.9	1022.3	1022.5	1022.8	1023.1	1023.5	1023.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	583.4	591.8	595.5	596.4	601.5	598.2	599.6	599.2	602.9	603.3	603.3
5°	626.0	635.7	639.0	643.6	650.5	652.4	651.0	653.8	658.8	655.1	660.7
7.5°	670.9	681.5	688.9	699.1	701.4	707.4	711.1	714.4	715.3	715.8	716.7
10°	712.5	725.9	736.1	753.2	756.9	760.2	776.4	769.9	778.2	775.4	776.4
12.5°	746.3	772.7	781.0	809.7	812.5	823.6	822.6	832.8	834.7	838.4	834.7
15°	790.7	821.2	834.7	850.9	860.1	873.1	875.4	889.3	894.8	899.9	894.8
17.5°	831.4	847.6	881.9	894.8	900.8	907.8	925.4	930.4	938.8	935.5	944.8
20°	851.8	874.9	911.0	933.2	942.5	948.9	963.8	971.6	974.9	974.9	975.8
22.5°	869.8	903.1	930.0	955.4	963.8	968.4	977.2	983.2	984.6	985.5	986.4
25°	886.0	916.1	937.8	952.2	955.4	955.4	960.5	956.8	950.8	955.4	958.2
27.5°	886.0	907.3	917.0	922.1	922.1	909.6	902.2	886.9	874.0	870.3	878.6
30°	871.2	880.9	867.5	855.0	845.3	837.0	807.8	784.7	780.1	776.8	789.3
32.5°	837.0	824.5	798.1	762.0	747.7	728.7	706.0	688.5	677.8	674.1	671.3
35°	776.4	744.0	709.7	661.2	651.0	626.9	595.9	583.0	565.4	564.9	570.9
37.5°	710.2	660.2	623.2	577.0	562.6	537.2	508.0	494.6	482.6	473.3	484.4
40°	632.9	589.4	533.0	495.1	474.7	461.3	436.8	422.0	416.4	411.8	418.7
42.5°	560.8	513.1	469.2	430.3	413.6	398.4	382.2	367.8	363.7	363.2	368.3
45°	489.0	442.3	401.6	368.3	357.6	348.4	332.7	328.5	321.6	316.9	319.2
47.5°	431.7	383.6	349.8	324.3	315.1	307.2	297.0	290.1	284.1	282.2	285.0
50°	375.2	342.8	308.1	286.9	279.9	272.5	264.7	258.2	255.4	253.5	255.4
52.5°	329.9	295.2	271.6	254.5	247.5	242.0	236.4	233.7	229.9	230.9	232.7
55°	289.2	258.6	238.7	226.2	222.1	219.8	212.8	209.6	208.2	207.3	208.2
57.5°	250.8	228.6	213.8	203.1	197.6	196.2	190.6	190.6	189.2	187.8	188.3
60°	220.2	201.3	186.9	178.6	177.7	175.4	171.7	171.2	168.0	169.3	169.8
62.5°	189.2	174.0	164.2	159.2	155.9	155.0	152.7	152.2	150.8	151.3	150.4
65°	164.7	152.2	142.5	138.3	137.0	136.5	134.6	133.3	132.3	133.3	132.3
67.5°	140.2	131.9	124.5	120.3	118.4	118.0	116.6	115.7	116.1	114.7	115.7
70°	117.1	108.7	104.1	101.8	100.9	99.5	99.5	99.5	99.5	98.5	98.1
72.5°	98.5	90.2	87.0	85.6	84.7	84.2	82.8	83.3	82.8	82.4	84.2
75°	78.2	73.1	69.9	68.5	69.4	68.0	66.6	67.6	66.2	66.6	68.5
77.5°	59.2	56.9	55.1	54.1	53.2	52.3	52.3	51.4	51.4	51.4	51.4
80°	43.0	42.6	39.3	38.9	38.9	37.9	37.9	37.9	37.9	37.5	37.9
82.5°	28.7	28.2	27.3	26.8	25.9	26.4	26.4	25.4	25.4	25.0	25.4
85°	16.7	16.7	15.7	15.3	14.8	15.3	14.3	13.9	14.3	13.9	14.3
87.5°	7.9	6.9	7.4	6.9	6.0	6.5	5.6	6.0	5.6	5.1	6.0
90°	17.9	18.9	20.0	21.0	21.5	21.7	22.0	22.3	22.7	23.0	22.7
92.5°	17.1	18.1	19.2	20.2	20.7	20.7	20.7	20.7	20.7	20.7	20.7
95°	17.9	18.9	20.0	21.0	21.5	21.6	21.7	21.9	22.0	22.2	22.0
97.5°	17.7	18.6	19.4	20.3	20.7	20.8	21.0	21.1	21.3	21.5	21.3
100°	30.8	27.9	25.0	22.1	20.7	20.8	21.0	21.1	21.3	21.5	21.3
102.5°	156.4	118.1	79.7	41.4	22.2	22.2	22.2	22.2	22.2	22.2	22.2
105°	240.8	242.4	243.9	245.4	246.2	243.1	237.0	230.9	224.7	218.6	224.7
107.5°	289.2	290.1	290.9	291.8	292.2	292.5	293.2	293.9	294.6	295.3	294.6
110°	338.5	338.9	339.2	339.5	339.7	340.0	340.5	341.0	341.5	342.0	341.5

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	386.3	386.2	386.0	385.9	385.8	386.1	386.8	387.5	388.1	388.8	388.1
115°	432.9	433.2	433.6	433.9	434.1	434.1	434.1	434.1	434.1	434.1	434.1
117.5°	481.4	481.3	481.1	481.0	480.9	480.9	480.9	480.9	480.9	480.9	480.9
120°	524.9	525.3	525.6	525.9	526.1	525.9	525.6	525.3	524.9	524.6	524.9
122.5°	568.5	568.7	568.8	569.0	569.1	568.9	568.6	568.2	567.9	567.5	567.9
125°	607.9	608.4	608.9	609.4	609.7	609.8	610.0	610.1	610.3	610.5	610.3
127.5°	649.4	649.2	649.1	648.9	648.8	648.7	648.6	648.4	648.3	648.1	648.3
130°	685.8	686.0	686.1	686.3	686.4	686.4	686.4	686.4	686.4	686.4	686.4
132.5°	721.9	722.0	722.2	722.3	722.4	722.3	722.2	722.0	721.9	721.7	721.9
135°	754.2	754.6	754.9	755.2	755.4	755.6	755.9	756.3	756.6	757.0	756.6
137.5°	786.4	786.8	787.1	787.4	787.6	787.5	787.4	787.2	787.1	786.9	787.1
140°	815.7	816.2	816.7	817.2	817.5	817.6	817.8	817.9	818.1	818.3	818.1
142.5°	843.2	843.6	843.9	844.2	844.4	844.4	844.4	844.4	844.4	844.4	844.4
145°	869.1	869.3	869.4	869.6	869.7	869.9	870.2	870.5	870.9	871.2	870.9
147.5°	892.1	892.3	892.4	892.6	892.7	892.8	893.0	893.1	893.3	893.5	893.3
150°	914.2	914.2	914.2	914.2	914.2	914.3	914.4	914.6	914.7	914.9	914.7
152.5°	932.9	933.3	933.6	933.9	934.1	934.0	933.8	933.7	933.5	933.3	933.5
155°	949.4	950.1	950.8	951.5	951.8	951.5	951.0	950.5	950.0	949.5	950.0
157.5°	964.1	965.0	965.8	966.7	967.1	966.7	965.8	965.0	964.1	963.3	964.1
160°	978.1	979.1	980.2	981.2	981.7	981.2	980.2	979.1	978.1	977.1	978.1
162.5°	989.6	990.6	991.7	992.7	993.2	992.6	991.4	990.2	989.0	987.8	989.0
165°	999.9	1001.3	1002.6	1004.0	1004.7	1003.9	1002.4	1000.9	999.3	997.8	999.3
167.5°	1007.7	1009.3	1010.8	1012.3	1013.1	1012.2	1010.5	1008.8	1007.1	1005.4	1007.1
170°	1015.3	1016.6	1018.0	1019.3	1020.0	1019.1	1017.4	1015.7	1014.0	1012.3	1014.0
172.5°	1019.9	1021.2	1022.6	1023.9	1024.6	1023.7	1021.8	1019.9	1018.1	1016.2	1018.1
175°	1023.0	1024.6	1026.1	1027.6	1028.4	1027.4	1025.3	1023.3	1021.2	1019.2	1021.2
177.5°	1025.2	1026.6	1027.9	1029.3	1030.0	1029.0	1026.9	1024.9	1022.8	1020.8	1022.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	602.4	601.0	599.2	599.2	596.9	596.9	593.1	586.7	581.1	579.3	580.2
5°	653.8	654.2	651.4	649.1	645.0	641.7	635.7	624.1	620.4	613.0	608.0
7.5°	712.5	710.7	705.6	701.9	701.0	693.6	680.6	666.7	655.6	648.2	637.6
10°	778.7	771.3	763.9	761.6	756.0	743.5	728.7	713.4	698.2	682.0	663.9
12.5°	834.2	819.9	819.4	813.8	803.2	796.3	778.7	756.9	730.6	712.5	692.2
15°	893.9	880.5	869.4	859.2	854.1	833.7	818.9	791.6	760.2	740.7	726.9
17.5°	936.5	930.4	911.5	906.8	899.9	876.3	852.7	825.9	798.6	771.3	733.8
20°	970.7	967.0	954.5	948.0	936.9	918.4	889.7	858.7	827.3	788.4	753.2
22.5°	985.5	980.9	970.7	965.1	958.2	942.5	917.9	882.8	841.6	806.9	769.4
25°	956.3	964.7	961.9	959.6	956.8	947.6	929.1	898.1	857.8	818.5	771.7
27.5°	890.6	905.0	918.9	920.7	925.4	929.1	921.6	899.4	865.7	824.0	772.7
30°	802.3	808.8	837.0	845.3	851.8	875.4	889.3	883.7	857.8	820.3	773.1
32.5°	688.9	706.0	734.7	754.6	772.2	798.6	834.7	849.0	839.8	809.2	762.5
35°	581.6	601.9	635.3	660.7	678.3	715.8	758.3	789.3	800.9	785.6	744.0
37.5°	493.7	518.2	547.8	557.5	577.9	624.1	682.9	725.9	754.2	755.5	723.2
40°	427.5	440.0	463.6	478.4	498.3	537.2	594.5	651.4	694.0	708.4	691.2
42.5°	371.5	381.2	398.8	416.9	434.9	464.5	517.3	570.5	627.9	656.5	656.1
45°	327.1	337.3	349.3	364.1	376.6	408.5	450.2	504.8	554.3	598.7	609.8
47.5°	288.2	297.0	311.8	318.3	326.6	356.7	392.8	443.7	495.1	546.0	558.9
50°	259.6	267.0	277.1	281.3	290.6	312.8	342.4	383.6	440.5	487.2	511.3
52.5°	233.7	239.2	247.1	250.3	256.8	273.4	300.3	332.7	379.9	428.0	461.7
55°	211.4	215.1	220.7	224.4	229.0	243.8	263.7	292.9	333.6	375.2	408.1
57.5°	190.6	193.4	199.0	200.8	204.5	216.1	229.9	254.5	291.9	329.0	360.9
60°	171.2	173.0	176.3	180.4	183.2	191.1	204.0	224.4	254.5	288.2	314.2
62.5°	152.7	155.5	156.4	158.2	160.5	168.0	178.1	192.9	219.3	247.1	274.4
65°	133.7	136.0	137.9	138.3	140.7	146.2	155.5	168.4	185.5	209.6	235.0
67.5°	116.1	117.5	118.4	120.3	122.6	125.4	132.8	142.5	158.2	177.7	198.0
70°	99.9	99.9	101.3	101.8	104.6	107.8	111.0	120.3	134.2	149.9	163.8
72.5°	82.4	84.7	84.2	86.5	86.1	88.4	92.5	98.5	108.7	121.2	134.6
75°	67.1	68.5	68.5	68.5	69.4	71.3	73.6	79.1	87.0	97.2	105.0
77.5°	52.3	53.2	53.2	53.2	53.7	55.5	57.8	61.5	67.1	73.1	77.7
80°	37.5	38.4	38.4	39.3	39.3	39.8	42.1	44.0	46.7	51.4	56.0
82.5°	25.4	25.9	26.8	26.8	26.4	27.3	27.8	29.6	32.4	33.3	36.6
85°	13.9	14.3	14.8	14.8	15.3	16.2	15.7	17.6	17.6	19.4	20.4
87.5°	5.6	6.5	6.5	6.0	6.5	6.5	6.5	7.4	7.9	8.3	7.9
90°	22.3	22.0	21.7	21.5	21.0	20.0	18.9	17.9	16.9	15.5	14.1
92.5°	20.7	20.7	20.7	20.7	20.2	19.2	18.1	17.1	16.1	14.7	13.4
95°	21.9	21.7	21.6	21.5	21.0	20.0	18.9	17.9	16.9	16.7	16.5
97.5°	21.1	21.0	20.8	20.7	20.3	19.4	18.6	17.7	16.9	34.8	52.7
100°	21.1	21.0	20.8	20.7	22.1	25.0	27.9	30.8	33.7	57.2	80.8
102.5°	22.2	22.2	22.2	22.2	41.4	79.7	118.1	156.4	194.8	192.8	190.7
105°	230.9	237.0	243.1	246.2	245.4	243.9	242.4	240.8	239.3	238.4	237.6
107.5°	293.9	293.2	292.5	292.2	291.8	290.9	290.1	289.2	288.4	287.2	286.0
110°	341.0	340.5	340.0	339.7	339.5	339.2	338.9	338.5	338.2	337.2	336.2

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	387.5	386.8	386.1	385.8	385.9	386.0	386.2	386.3	386.5	386.2	385.8
115°	434.1	434.1	434.1	434.1	433.9	433.6	433.2	432.9	432.5	432.7	432.9
117.5°	480.9	480.9	480.9	480.9	481.0	481.1	481.3	481.4	481.6	481.1	480.6
120°	525.3	525.6	525.9	526.1	525.9	525.6	525.3	524.9	524.6	524.8	524.9
122.5°	568.2	568.6	568.9	569.1	569.0	568.8	568.7	568.5	568.3	568.0	567.6
125°	610.1	610.0	609.8	609.7	609.4	608.9	608.4	607.9	607.4	607.7	608.1
127.5°	648.4	648.6	648.7	648.8	648.9	649.1	649.2	649.4	649.6	648.8	647.9
130°	686.4	686.4	686.4	686.4	686.3	686.1	686.0	685.8	685.6	685.1	684.6
132.5°	722.0	722.2	722.3	722.4	722.3	722.2	722.0	721.9	721.7	721.0	720.3
135°	756.3	755.9	755.6	755.4	755.2	754.9	754.6	754.2	753.9	753.2	752.5
137.5°	787.2	787.4	787.5	787.6	787.4	787.1	786.8	786.4	786.1	785.3	784.4
140°	817.9	817.8	817.6	817.5	817.2	816.7	816.2	815.7	815.2	814.9	814.5
142.5°	844.4	844.4	844.4	844.4	844.2	843.9	843.6	843.2	842.9	842.7	842.5
145°	870.5	870.2	869.9	869.7	869.6	869.4	869.3	869.1	868.9	868.9	868.9
147.5°	893.1	893.0	892.8	892.7	892.6	892.4	892.3	892.1	891.9	892.1	892.3
150°	914.6	914.4	914.3	914.2	914.2	914.2	914.2	914.2	914.2	914.4	914.5
152.5°	933.7	933.8	934.0	934.1	933.9	933.6	933.3	932.9	932.6	932.9	933.3
155°	950.5	951.0	951.5	951.8	951.5	950.8	950.1	949.4	948.7	949.2	949.7
157.5°	965.0	965.8	966.7	967.1	966.7	965.8	965.0	964.1	963.3	964.0	964.6
160°	979.1	980.2	981.2	981.7	981.2	980.2	979.1	978.1	977.1	977.3	977.4
162.5°	990.2	991.4	992.6	993.2	992.7	991.7	990.6	989.6	988.6	988.8	988.9
165°	1000.9	1002.4	1003.9	1004.7	1004.0	1002.6	1001.3	999.9	998.5	998.5	998.5
167.5°	1008.8	1010.5	1012.2	1013.1	1012.3	1010.8	1009.3	1007.7	1006.2	1006.4	1006.6
170°	1015.7	1017.4	1019.1	1020.0	1019.3	1018.0	1016.6	1015.3	1013.9	1013.7	1013.5
172.5°	1019.9	1021.8	1023.7	1024.6	1023.9	1022.6	1021.2	1019.9	1018.5	1018.3	1018.1
175°	1023.3	1025.3	1027.4	1028.4	1027.6	1026.1	1024.6	1023.0	1021.5	1021.3	1021.2
177.5°	1024.9	1026.9	1029.0	1030.0	1029.3	1027.9	1026.6	1025.2	1023.8	1023.5	1023.1
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	576.0	574.2	572.8	572.8	568.6	564.5	562.2	561.2	560.3	556.6	551.5
5°	599.6	593.6	589.4	585.3	578.3	570.9	563.5	559.4	553.4	545.0	539.0
7.5°	626.0	611.7	607.0	601.9	588.1	575.6	565.4	556.6	546.9	536.2	525.6
10°	648.2	632.9	622.8	614.0	595.9	579.3	564.0	551.0	538.6	524.7	511.7
12.5°	669.5	647.7	637.1	624.1	605.2	581.1	561.2	545.0	526.5	512.2	496.5
15°	699.1	662.6	645.0	636.6	611.2	583.0	558.9	534.9	519.6	497.8	484.0
17.5°	703.7	674.1	662.6	641.3	610.7	578.8	551.0	527.0	503.9	484.4	466.4
20°	719.9	681.1	662.6	649.1	608.9	576.5	546.0	515.0	492.7	471.9	451.6
22.5°	730.1	686.1	666.7	645.4	607.0	568.2	532.1	505.2	477.9	456.7	440.5
25°	727.3	683.4	661.6	641.7	595.0	556.1	523.7	489.5	464.1	440.9	419.6
27.5°	725.9	676.4	653.3	631.1	587.1	546.4	505.7	477.9	449.7	422.9	407.2
30°	722.2	667.6	640.8	616.7	570.9	528.4	493.7	461.3	433.1	408.5	387.7
32.5°	709.7	652.8	626.9	601.0	553.4	510.8	475.6	445.6	417.3	391.9	372.0
35°	693.1	635.3	607.0	579.7	532.1	489.0	456.7	425.2	398.8	374.3	355.3
37.5°	676.4	614.9	588.5	557.1	513.1	468.2	434.9	406.7	382.2	356.7	335.9
40°	652.4	590.8	561.7	534.9	483.5	441.4	410.9	385.4	361.3	337.3	319.7
42.5°	619.5	564.5	534.4	504.8	456.7	415.0	385.4	362.7	340.1	320.2	300.7
45°	586.2	532.5	505.7	479.3	427.0	387.7	360.4	339.6	320.6	298.9	283.2
47.5°	546.0	500.6	473.8	447.9	398.4	359.0	334.1	314.6	297.0	279.0	264.2
50°	504.8	465.5	440.9	414.1	366.9	331.3	306.8	290.6	276.2	259.1	247.1
52.5°	460.4	426.1	405.3	379.4	337.8	304.9	279.9	263.7	251.7	239.2	228.6
55°	413.2	388.2	366.0	345.2	305.8	276.2	254.0	239.7	231.3	219.8	210.5
57.5°	370.6	346.5	333.1	309.5	275.3	246.1	228.6	216.5	206.8	199.9	192.5
60°	326.2	306.8	291.9	274.8	244.8	220.2	201.7	194.8	184.6	179.5	176.3
62.5°	283.6	269.7	255.9	242.9	216.1	192.9	179.1	170.3	164.2	159.2	156.4
65°	243.4	230.4	220.7	209.1	186.9	168.4	155.5	148.5	142.5	141.1	137.9
67.5°	204.0	198.5	187.8	178.6	159.6	145.3	135.6	126.8	123.5	122.1	119.4
70°	170.7	164.2	155.9	148.1	133.7	121.2	112.4	109.2	104.6	104.1	100.9
72.5°	140.7	132.8	126.8	120.8	110.1	99.0	94.4	89.8	87.4	85.6	84.2
75°	111.5	106.0	101.8	96.7	87.4	80.0	73.6	71.7	70.3	69.9	68.9
77.5°	83.3	79.6	77.7	72.6	66.2	59.7	56.9	54.1	54.1	53.2	53.7
80°	59.2	56.9	54.6	51.8	46.3	43.5	41.2	39.3	38.4	37.9	38.4
82.5°	37.5	36.1	35.6	33.8	30.1	28.7	26.8	25.4	25.4	25.4	25.4
85°	20.8	20.8	20.8	18.0	16.7	15.3	14.3	13.9	13.9	13.9	14.3
87.5°	8.8	8.8	7.4	7.4	6.9	6.0	5.6	5.6	6.0	6.0	6.5
90°	12.8	11.4	10.7	9.8	7.9	6.0	4.2	2.3	4.2	6.0	7.9
92.5°	12.0	10.7	10.0	10.2	10.5	10.8	11.2	11.5	11.2	10.8	10.5
95°	16.4	16.2	16.1	19.0	24.8	30.6	36.4	42.2	36.4	30.6	24.8
97.5°	70.6	88.5	97.4	95.5	91.8	88.0	84.3	80.5	84.3	88.0	91.8
100°	104.3	127.8	139.6	138.1	135.0	131.9	128.9	125.8	128.9	131.9	135.0
102.5°	188.7	186.6	185.6	184.6	182.5	180.5	178.4	176.4	178.4	180.5	182.5
105°	236.7	235.8	235.4	234.9	233.9	232.8	231.8	230.8	231.8	232.8	233.9
107.5°	284.8	283.6	283.0	282.7	282.2	281.7	281.2	280.7	281.2	281.7	282.2
110°	335.1	334.1	333.6	333.3	332.8	332.3	331.8	331.3	331.8	332.3	332.8

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	385.5	385.2	385.0	384.5	383.5	382.4	381.4	380.4	381.4	382.4	383.5
115°	433.0	433.2	433.3	433.0	432.5	432.0	431.5	431.0	431.5	432.0	432.5
117.5°	480.1	479.6	479.3	479.0	478.3	477.6	477.0	476.3	477.0	477.6	478.3
120°	525.1	525.2	525.3	525.0	524.3	523.6	523.0	522.3	523.0	523.6	524.3
122.5°	567.3	567.0	566.8	566.6	566.3	565.9	565.6	565.2	565.6	565.9	566.3
125°	608.4	608.7	608.9	608.6	607.9	607.2	606.6	605.9	606.6	607.2	607.9
127.5°	647.1	646.2	645.8	645.7	645.5	645.4	645.2	645.0	645.2	645.4	645.5
130°	684.1	683.6	683.3	683.2	683.1	682.9	682.8	682.6	682.8	682.9	683.1
132.5°	719.6	718.9	718.6	718.4	718.1	717.8	717.4	717.1	717.4	717.8	718.1
135°	751.8	751.1	750.8	750.9	751.1	751.2	751.4	751.6	751.4	751.2	751.1
137.5°	783.6	782.7	782.3	782.3	782.3	782.3	782.3	782.3	782.3	782.3	782.3
140°	814.2	813.9	813.7	813.5	813.2	812.9	812.5	812.2	812.5	812.9	813.2
142.5°	842.4	842.2	842.1	841.8	841.1	840.4	839.7	839.0	839.7	840.4	841.1
145°	868.9	868.9	868.9	868.6	868.1	867.6	867.1	866.6	867.1	867.6	868.1
147.5°	892.4	892.6	892.7	892.2	891.2	890.1	889.1	888.1	889.1	890.1	891.2
150°	914.7	914.8	914.9	914.6	913.9	913.2	912.6	911.9	912.6	913.2	913.9
152.5°	933.6	933.9	934.1	933.8	933.3	932.8	932.3	931.8	932.3	932.8	933.3
155°	950.2	950.7	951.0	950.9	950.7	950.6	950.4	950.2	950.4	950.6	950.7
157.5°	965.3	966.0	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
160°	977.6	977.7	977.8	978.1	978.6	979.1	979.6	980.1	979.6	979.1	978.6
162.5°	989.1	989.2	989.3	989.6	990.3	991.0	991.7	992.4	991.7	991.0	990.3
165°	998.5	998.5	998.5	998.9	999.8	1000.7	1001.5	1002.4	1001.5	1000.7	999.8
167.5°	1006.7	1006.9	1007.0	1007.4	1008.3	1009.1	1010.0	1010.8	1010.0	1009.1	1008.3
170°	1013.4	1013.2	1013.1	1013.6	1014.6	1015.7	1016.7	1017.7	1016.7	1015.7	1014.6
172.5°	1018.0	1017.8	1017.7	1018.2	1019.2	1020.3	1021.3	1022.3	1021.3	1020.3	1019.2
175°	1021.0	1020.9	1020.8	1021.3	1022.3	1023.4	1024.4	1025.4	1024.4	1023.4	1022.3
177.5°	1022.8	1022.5	1022.3	1022.9	1024.1	1025.3	1026.5	1027.7	1026.5	1025.3	1024.1
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	550.1	548.3	549.2	544.6	540.4	534.4	529.3	528.4	527.4	530.2	528.4
5°	534.4	532.1	529.8	524.2	515.9	510.8	503.4	502.9	500.2	496.0	496.9
7.5°	517.3	515.9	512.6	503.9	496.5	487.7	481.6	476.6	474.2	470.5	469.2
10°	503.4	498.3	495.5	485.8	477.0	467.8	459.9	456.2	452.0	448.8	446.5
12.5°	484.4	483.0	475.2	467.3	459.9	449.3	443.2	432.6	427.0	429.8	428.9
15°	471.9	465.5	463.6	452.5	440.0	433.1	422.0	415.0	412.7	408.5	403.5
17.5°	455.3	451.1	444.6	434.5	420.1	410.4	402.5	396.1	393.3	387.7	383.6
20°	439.5	432.6	427.5	418.3	404.4	391.9	382.2	378.0	371.1	366.4	364.1
22.5°	425.2	420.1	412.7	398.8	386.8	374.8	363.2	357.2	350.7	347.9	344.2
25°	407.6	399.3	394.2	378.9	366.0	356.3	345.6	337.8	334.1	329.4	328.5
27.5°	390.5	382.6	376.6	363.2	347.5	335.0	328.5	322.9	316.5	316.5	314.2
30°	373.4	367.8	358.6	345.6	330.8	318.8	311.4	306.3	304.0	302.1	301.7
32.5°	356.3	348.9	343.3	325.7	314.6	303.5	298.0	293.8	291.0	290.6	291.0
35°	338.7	330.4	324.8	309.1	298.0	287.8	285.5	281.8	280.4	279.9	282.2
37.5°	320.2	313.7	306.8	293.8	281.3	275.3	270.7	269.3	268.8	271.6	272.5
40°	303.1	297.5	291.0	277.1	267.9	261.4	259.1	257.7	259.6	262.3	263.7
42.5°	286.9	279.0	273.9	261.4	253.1	249.4	246.6	246.6	248.5	251.7	254.0
45°	269.7	263.7	258.6	247.5	240.1	236.0	235.5	236.0	238.3	240.6	243.4
47.5°	253.1	247.1	241.5	232.3	225.8	223.5	223.0	223.5	227.2	230.4	233.7
50°	237.8	231.3	226.2	217.5	212.4	209.6	210.1	212.4	215.1	219.8	223.9
52.5°	219.8	215.1	210.5	202.7	198.0	196.2	197.6	199.4	204.5	207.7	212.8
55°	202.2	198.0	194.3	188.3	184.6	183.2	184.1	186.9	191.1	196.6	202.7
57.5°	186.0	181.4	177.7	173.5	169.3	169.8	170.3	174.0	179.1	184.1	191.1
60°	168.0	165.2	161.9	156.8	155.0	155.0	156.4	160.5	165.2	173.5	179.5
62.5°	151.8	148.1	145.7	142.5	139.7	140.2	143.4	147.1	152.7	159.6	167.5
65°	135.1	130.9	129.1	126.3	125.4	125.8	128.2	133.7	139.7	145.7	153.1
67.5°	116.6	115.2	113.4	110.6	111.5	112.0	114.3	118.9	125.4	131.4	139.7
70°	100.9	98.1	97.6	95.3	95.3	96.7	101.3	104.6	110.6	117.1	125.8
72.5°	84.2	81.9	81.9	80.0	81.4	82.8	85.1	89.8	95.3	101.8	109.2
75°	67.1	66.2	67.1	66.2	66.2	68.5	71.3	75.0	81.0	87.9	93.9
77.5°	51.8	51.8	51.4	52.7	52.7	54.1	57.8	61.5	66.2	71.7	78.2
80°	37.9	37.9	37.9	39.3	40.7	40.7	43.0	47.7	51.8	55.5	61.5
82.5°	25.9	25.9	25.9	26.8	28.7	28.7	31.5	34.2	38.9	42.1	44.9
85°	15.7	15.7	15.3	16.2	16.7	18.0	20.4	22.2	24.5	27.3	30.1
87.5°	6.9	6.9	7.4	7.9	8.3	9.3	10.2	11.1	13.4	14.3	15.7
90°	9.8	10.7	11.4	12.8	14.1	15.5	16.9	17.9	18.9	20.0	21.0
92.5°	10.2	10.0	10.7	12.0	13.4	14.7	16.1	17.1	18.1	19.2	20.2
95°	19.0	16.1	16.2	16.4	16.5	16.7	16.9	17.9	18.9	20.0	21.0
97.5°	95.5	97.4	88.5	70.6	52.7	34.8	16.9	17.7	18.6	19.4	20.3
100°	138.1	139.6	127.8	104.3	80.8	57.2	33.7	30.8	27.9	25.0	22.1
102.5°	184.6	185.6	186.6	188.7	190.7	192.8	194.8	156.4	118.1	79.7	41.4
105°	234.9	235.4	235.8	236.7	237.6	238.4	239.3	240.8	242.4	243.9	245.4
107.5°	282.7	283.0	283.6	284.8	286.0	287.2	288.4	289.2	290.1	290.9	291.8
110°	333.3	333.6	334.1	335.1	336.2	337.2	338.2	338.5	338.9	339.2	339.5

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	384.5	385.0	385.2	385.5	385.8	386.2	386.5	386.3	386.2	386.0	385.9
115°	433.0	433.3	433.2	433.0	432.9	432.7	432.5	432.9	433.2	433.6	433.9
117.5°	479.0	479.3	479.6	480.1	480.6	481.1	481.6	481.4	481.3	481.1	481.0
120°	525.0	525.3	525.2	525.1	524.9	524.8	524.6	524.9	525.3	525.6	525.9
122.5°	566.6	566.8	567.0	567.3	567.6	568.0	568.3	568.5	568.7	568.8	569.0
125°	608.6	608.9	608.7	608.4	608.1	607.7	607.4	607.9	608.4	608.9	609.4
127.5°	645.7	645.8	646.2	647.1	647.9	648.8	649.6	649.4	649.2	649.1	648.9
130°	683.2	683.3	683.6	684.1	684.6	685.1	685.6	685.8	686.0	686.1	686.3
132.5°	718.4	718.6	718.9	719.6	720.3	721.0	721.7	721.9	722.0	722.2	722.3
135°	750.9	750.8	751.1	751.8	752.5	753.2	753.9	754.2	754.6	754.9	755.2
137.5°	782.3	782.3	782.7	783.6	784.4	785.3	786.1	786.4	786.8	787.1	787.4
140°	813.5	813.7	813.9	814.2	814.5	814.9	815.2	815.7	816.2	816.7	817.2
142.5°	841.8	842.1	842.2	842.4	842.5	842.7	842.9	843.2	843.6	843.9	844.2
145°	868.6	868.9	868.9	868.9	868.9	868.9	868.9	869.1	869.3	869.4	869.6
147.5°	892.2	892.7	892.6	892.4	892.3	892.1	891.9	892.1	892.3	892.4	892.6
150°	914.6	914.9	914.8	914.7	914.5	914.4	914.2	914.2	914.2	914.2	914.2
152.5°	933.8	934.1	933.9	933.6	933.3	932.9	932.6	932.9	933.3	933.6	933.9
155°	950.9	951.0	950.7	950.2	949.7	949.2	948.7	949.4	950.1	950.8	951.5
157.5°	966.3	966.3	966.0	965.3	964.6	964.0	963.3	964.1	965.0	965.8	966.7
160°	978.1	977.8	977.7	977.6	977.4	977.3	977.1	978.1	979.1	980.2	981.2
162.5°	989.6	989.3	989.2	989.1	988.9	988.8	988.6	989.6	990.6	991.7	992.7
165°	998.9	998.5	998.5	998.5	998.5	998.5	998.5	999.9	1001.3	1002.6	1004.0
167.5°	1007.4	1007.0	1006.9	1006.7	1006.6	1006.4	1006.2	1007.7	1009.3	1010.8	1012.3
170°	1013.6	1013.1	1013.2	1013.4	1013.5	1013.7	1013.9	1015.3	1016.6	1018.0	1019.3
172.5°	1018.2	1017.7	1017.8	1018.0	1018.1	1018.3	1018.5	1019.9	1021.2	1022.6	1023.9
175°	1021.3	1020.8	1020.9	1021.0	1021.2	1021.3	1021.5	1023.0	1024.6	1026.1	1027.6
177.5°	1022.9	1022.3	1022.5	1022.8	1023.1	1023.5	1023.8	1025.2	1026.6	1027.9	1029.3
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	527.0	526.5	524.2	525.1	522.4	523.3	524.7	525.1	527.0	525.6	525.1
5°	494.6	493.7	492.3	490.9	490.4	492.3	489.0	490.0	490.9	492.3	494.1
7.5°	468.2	467.8	466.4	464.1	463.1	462.2	462.7	465.9	465.5	465.0	468.2
10°	444.2	444.6	441.9	441.4	438.6	438.2	438.6	439.5	440.9	442.8	443.2
12.5°	419.2	425.2	420.1	418.3	414.1	416.4	417.3	413.2	415.5	416.9	423.8
15°	403.5	400.7	397.4	397.4	395.6	394.7	392.3	395.6	397.4	400.2	399.3
17.5°	381.7	377.1	375.2	373.4	373.8	375.7	370.6	378.0	378.0	379.4	377.1
20°	362.7	359.0	356.7	355.8	354.4	353.5	353.0	354.9	357.6	358.6	360.9
22.5°	342.8	342.8	339.1	337.8	336.8	335.4	337.8	336.4	338.2	340.1	343.8
25°	326.2	326.2	324.8	322.9	321.6	320.6	322.0	321.6	322.9	325.3	326.2
27.5°	312.8	311.4	310.9	310.5	310.0	310.5	310.0	311.4	312.8	313.2	312.3
30°	301.2	299.8	300.3	300.3	300.7	300.3	299.8	301.2	301.7	300.7	301.2
32.5°	290.6	290.6	291.5	291.9	291.9	292.4	292.9	291.9	292.4	291.0	291.5
35°	281.8	282.7	283.6	284.1	284.5	284.1	285.0	284.5	283.6	282.7	282.2
37.5°	273.0	273.9	275.8	276.2	277.6	278.1	277.1	277.1	276.7	274.8	273.9
40°	263.7	264.7	267.0	268.4	269.3	270.7	269.7	269.7	267.9	266.0	264.7
42.5°	254.9	256.8	259.1	260.5	262.3	262.3	262.3	261.4	259.1	257.2	255.9
45°	246.1	246.6	249.8	252.2	254.0	254.0	254.0	252.6	251.2	247.5	245.7
47.5°	236.4	237.8	241.5	243.8	245.7	246.1	246.1	244.8	242.0	238.7	236.4
50°	225.8	228.1	232.3	235.5	237.8	238.7	237.4	236.4	233.2	229.5	226.7
52.5°	215.6	218.4	223.5	226.2	229.5	229.9	229.5	228.1	224.4	219.3	217.0
55°	205.4	207.7	213.3	217.9	220.7	221.6	220.7	218.4	213.8	208.7	206.4
57.5°	194.3	197.6	203.6	208.2	211.4	211.9	211.0	208.7	205.0	198.5	195.2
60°	182.8	186.9	192.9	197.6	201.7	202.2	201.3	198.0	193.4	186.9	184.1
62.5°	171.2	174.4	181.4	186.5	189.7	192.0	190.2	186.9	182.3	175.8	171.7
65°	157.8	162.4	168.4	173.0	176.7	177.2	176.3	173.5	168.4	161.5	158.2
67.5°	144.8	148.1	154.1	160.1	161.5	162.9	161.5	158.7	154.5	148.5	143.9
70°	129.1	131.9	139.3	143.4	145.3	146.7	145.7	143.0	139.3	133.7	130.0
72.5°	113.4	115.7	122.6	125.8	129.5	129.1	128.6	126.8	121.7	118.0	115.7
75°	96.7	99.5	104.1	108.3	109.7	109.7	109.7	108.3	105.0	99.0	96.7
77.5°	81.4	82.8	86.5	88.8	90.2	90.7	90.2	87.9	86.1	81.9	80.5
80°	62.5	66.2	68.9	69.4	71.3	71.3	71.3	70.3	68.5	64.3	63.8
82.5°	47.2	48.1	50.9	52.3	53.2	52.7	52.7	50.9	50.4	48.1	47.2
85°	31.9	33.3	32.8	34.7	35.2	34.2	34.2	35.2	32.8	33.3	31.9
87.5°	17.6	17.6	18.5	18.0	19.9	19.9	19.0	19.4	18.5	18.0	17.6
90°	21.5	21.7	22.0	22.3	22.7	23.0	22.7	22.3	22.0	21.7	21.5
92.5°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
95°	21.5	21.6	21.7	21.9	22.0	22.2	22.0	21.9	21.7	21.6	21.5
97.5°	20.7	20.8	21.0	21.1	21.3	21.5	21.3	21.1	21.0	20.8	20.7
100°	20.7	20.8	21.0	21.1	21.3	21.5	21.3	21.1	21.0	20.8	20.7
102.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
105°	246.2	243.1	237.0	230.9	224.7	218.6	224.7	230.9	237.0	243.1	246.2
107.5°	292.2	292.5	293.2	293.9	294.6	295.3	294.6	293.9	293.2	292.5	292.2
110°	339.7	340.0	340.5	341.0	341.5	342.0	341.5	341.0	340.5	340.0	339.7

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	385.8	386.1	386.8	387.5	388.1	388.8	388.1	387.5	386.8	386.1	385.8
115°	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1
117.5°	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9
120°	526.1	525.9	525.6	525.3	524.9	524.6	524.9	525.3	525.6	525.9	526.1
122.5°	569.1	568.9	568.6	568.2	567.9	567.5	567.9	568.2	568.6	568.9	569.1
125°	609.7	609.8	610.0	610.1	610.3	610.5	610.3	610.1	610.0	609.8	609.7
127.5°	648.8	648.7	648.6	648.4	648.3	648.1	648.3	648.4	648.6	648.7	648.8
130°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
132.5°	722.4	722.3	722.2	722.0	721.9	721.7	721.9	722.0	722.2	722.3	722.4
135°	755.4	755.6	755.9	756.3	756.6	757.0	756.6	756.3	755.9	755.6	755.4
137.5°	787.6	787.5	787.4	787.2	787.1	786.9	787.1	787.2	787.4	787.5	787.6
140°	817.5	817.6	817.8	817.9	818.1	818.3	818.1	817.9	817.8	817.6	817.5
142.5°	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4
145°	869.7	869.9	870.2	870.5	870.9	871.2	870.9	870.5	870.2	869.9	869.7
147.5°	892.7	892.8	893.0	893.1	893.3	893.5	893.3	893.1	893.0	892.8	892.7
150°	914.2	914.3	914.4	914.6	914.7	914.9	914.7	914.6	914.4	914.3	914.2
152.5°	934.1	934.0	933.8	933.7	933.5	933.3	933.5	933.7	933.8	934.0	934.1
155°	951.8	951.5	951.0	950.5	950.0	949.5	950.0	950.5	951.0	951.5	951.8
157.5°	967.1	966.7	965.8	965.0	964.1	963.3	964.1	965.0	965.8	966.7	967.1
160°	981.7	981.2	980.2	979.1	978.1	977.1	978.1	979.1	980.2	981.2	981.7
162.5°	993.2	992.6	991.4	990.2	989.0	987.8	989.0	990.2	991.4	992.6	993.2
165°	1004.7	1003.9	1002.4	1000.9	999.3	997.8	999.3	1000.9	1002.4	1003.9	1004.7
167.5°	1013.1	1012.2	1010.5	1008.8	1007.1	1005.4	1007.1	1008.8	1010.5	1012.2	1013.1
170°	1020.0	1019.1	1017.4	1015.7	1014.0	1012.3	1014.0	1015.7	1017.4	1019.1	1020.0
172.5°	1024.6	1023.7	1021.8	1019.9	1018.1	1016.2	1018.1	1019.9	1021.8	1023.7	1024.6
175°	1028.4	1027.4	1025.3	1023.3	1021.2	1019.2	1021.2	1023.3	1025.3	1027.4	1028.4
177.5°	1030.0	1029.0	1026.9	1024.9	1022.8	1020.8	1022.8	1024.9	1026.9	1029.0	1030.0
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	525.1	527.9	525.1	527.0	527.9	530.2	531.2	535.3	536.7	539.9	539.9
5°	493.7	495.1	495.5	497.4	499.2	503.9	507.1	513.1	520.0	521.0	525.1
7.5°	468.2	470.5	474.2	472.9	476.1	483.0	487.2	494.6	501.5	505.2	510.3
10°	445.6	448.3	449.7	451.1	457.1	463.1	469.6	474.7	484.0	489.5	493.7
12.5°	427.0	424.7	427.5	432.6	439.5	443.2	452.0	459.9	466.8	472.9	476.6
15°	403.0	404.8	407.6	416.4	418.3	427.5	430.8	439.5	452.5	458.0	462.7
17.5°	379.9	385.9	391.4	394.7	400.2	407.6	416.9	426.6	434.9	441.4	446.9
20°	361.3	367.4	370.6	372.9	378.5	388.6	397.4	409.5	420.1	425.2	432.6
22.5°	346.5	346.5	351.2	358.1	361.3	371.1	378.5	391.4	403.0	409.5	416.4
25°	328.0	330.8	334.5	340.5	345.2	353.0	363.7	374.8	387.3	392.8	401.6
27.5°	312.8	316.0	321.1	322.5	327.1	334.1	345.2	357.2	370.1	376.2	383.6
30°	301.2	303.1	304.9	307.7	311.8	317.9	327.1	337.8	353.5	358.1	367.4
32.5°	291.0	291.9	292.9	295.2	297.5	303.5	310.9	322.5	335.4	342.4	350.7
35°	281.8	280.8	281.3	282.7	285.0	287.3	295.2	304.9	316.9	325.3	331.7
37.5°	273.0	271.1	270.7	270.7	271.6	274.4	280.4	288.7	301.7	308.6	315.1
40°	263.3	261.4	260.5	260.0	259.6	261.4	266.0	274.4	284.5	291.0	298.4
42.5°	254.0	252.2	249.8	249.4	248.5	249.4	252.6	260.5	269.3	275.8	281.8
45°	244.8	241.5	238.7	236.9	237.4	236.0	238.3	244.3	254.5	258.6	264.7
47.5°	234.6	230.9	227.2	225.3	223.5	224.4	225.3	230.4	239.2	243.4	249.4
50°	224.9	219.8	215.6	213.3	211.9	211.0	211.9	217.0	223.5	227.2	232.3
52.5°	213.8	208.7	204.5	200.8	199.0	197.6	198.0	202.7	208.7	212.4	217.5
55°	203.6	197.1	191.5	186.9	185.5	185.1	184.6	187.8	192.9	196.6	200.8
57.5°	192.0	185.5	179.5	174.0	171.2	170.7	170.7	171.7	178.1	180.9	183.2
60°	180.4	173.5	167.0	161.9	157.8	156.4	155.9	157.8	161.0	163.8	167.0
62.5°	167.5	160.5	152.7	148.1	143.9	140.2	141.6	142.0	146.7	148.1	150.8
65°	155.0	147.1	140.7	133.3	128.6	126.3	125.4	126.3	130.0	130.5	132.3
67.5°	140.7	133.3	125.4	120.3	116.1	112.0	111.0	111.0	112.9	114.3	116.6
70°	126.8	119.4	110.6	105.0	100.9	97.2	95.8	95.3	96.7	97.6	99.9
72.5°	110.6	103.2	96.7	90.7	85.6	82.8	81.4	80.5	81.9	82.8	83.3
75°	93.5	87.4	81.0	75.0	71.7	68.9	67.1	65.7	66.6	66.6	66.6
77.5°	77.3	71.3	66.2	62.0	57.8	54.6	53.2	51.8	52.3	52.3	53.2
80°	60.1	56.0	51.8	48.1	44.4	41.6	40.7	39.3	38.4	37.9	37.9
82.5°	44.4	41.2	37.5	34.2	32.4	29.6	28.7	26.8	26.8	26.4	26.4
85°	29.6	27.8	24.1	21.7	20.4	19.0	18.0	17.1	15.7	15.7	15.3
87.5°	15.7	14.8	13.9	11.1	11.1	9.7	9.3	8.8	7.4	7.9	7.9
90°	21.0	20.0	18.9	17.9	16.9	15.5	14.1	12.8	11.4	10.7	9.8
92.5°	20.2	19.2	18.1	17.1	16.1	14.7	13.4	12.0	10.7	10.0	10.2
95°	21.0	20.0	18.9	17.9	16.9	16.7	16.5	16.4	16.2	16.1	19.0
97.5°	20.3	19.4	18.6	17.7	16.9	34.8	52.7	70.6	88.5	97.4	95.5
100°	22.1	25.0	27.9	30.8	33.7	57.2	80.8	104.3	127.8	139.6	138.1
102.5°	41.4	79.7	118.1	156.4	194.8	192.8	190.7	188.7	186.6	185.6	184.6
105°	245.4	243.9	242.4	240.8	239.3	238.4	237.6	236.7	235.8	235.4	234.9
107.5°	291.8	290.9	290.1	289.2	288.4	287.2	286.0	284.8	283.6	283.0	282.7
110°	339.5	339.2	338.9	338.5	338.2	337.2	336.2	335.1	334.1	333.6	333.3

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	385.9	386.0	386.2	386.3	386.5	386.2	385.8	385.5	385.2	385.0	384.5
115°	433.9	433.6	433.2	432.9	432.5	432.7	432.9	433.0	433.2	433.3	433.0
117.5°	481.0	481.1	481.3	481.4	481.6	481.1	480.6	480.1	479.6	479.3	479.0
120°	525.9	525.6	525.3	524.9	524.6	524.8	524.9	525.1	525.2	525.3	525.0
122.5°	569.0	568.8	568.7	568.5	568.3	568.0	567.6	567.3	567.0	566.8	566.6
125°	609.4	608.9	608.4	607.9	607.4	607.7	608.1	608.4	608.7	608.9	608.6
127.5°	648.9	649.1	649.2	649.4	649.6	648.8	647.9	647.1	646.2	645.8	645.7
130°	686.3	686.1	686.0	685.8	685.6	685.1	684.6	684.1	683.6	683.3	683.2
132.5°	722.3	722.2	722.0	721.9	721.7	721.0	720.3	719.6	718.9	718.6	718.4
135°	755.2	754.9	754.6	754.2	753.9	753.2	752.5	751.8	751.1	750.8	750.9
137.5°	787.4	787.1	786.8	786.4	786.1	785.3	784.4	783.6	782.7	782.3	782.3
140°	817.2	816.7	816.2	815.7	815.2	814.9	814.5	814.2	813.9	813.7	813.5
142.5°	844.2	843.9	843.6	843.2	842.9	842.7	842.5	842.4	842.2	842.1	841.8
145°	869.6	869.4	869.3	869.1	868.9	868.9	868.9	868.9	868.9	868.9	868.6
147.5°	892.6	892.4	892.3	892.1	891.9	892.1	892.3	892.4	892.6	892.7	892.2
150°	914.2	914.2	914.2	914.2	914.2	914.4	914.5	914.7	914.8	914.9	914.6
152.5°	933.9	933.6	933.3	932.9	932.6	932.9	933.3	933.6	933.9	934.1	933.8
155°	951.5	950.8	950.1	949.4	948.7	949.2	949.7	950.2	950.7	951.0	950.9
157.5°	966.7	965.8	965.0	964.1	963.3	964.0	964.6	965.3	966.0	966.3	966.3
160°	981.2	980.2	979.1	978.1	977.1	977.3	977.4	977.6	977.7	977.8	978.1
162.5°	992.7	991.7	990.6	989.6	988.6	988.8	988.9	989.1	989.2	989.3	989.6
165°	1004.0	1002.6	1001.3	999.9	998.5	998.5	998.5	998.5	998.5	998.5	998.9
167.5°	1012.3	1010.8	1009.3	1007.7	1006.2	1006.4	1006.6	1006.7	1006.9	1007.0	1007.4
170°	1019.3	1018.0	1016.6	1015.3	1013.9	1013.7	1013.5	1013.4	1013.2	1013.1	1013.6
172.5°	1023.9	1022.6	1021.2	1019.9	1018.5	1018.3	1018.1	1018.0	1017.8	1017.7	1018.2
175°	1027.6	1026.1	1024.6	1023.0	1021.5	1021.3	1021.2	1021.0	1020.9	1020.8	1021.3
177.5°	1029.3	1027.9	1026.6	1025.2	1023.8	1023.5	1023.1	1022.8	1022.5	1022.3	1022.9
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	558.4	558.4	558.4	558.4
2.5°	543.2	547.8	552.0	558.4
5°	531.2	537.6	546.4	556.1
7.5°	517.3	527.4	539.0	552.4
10°	504.3	515.9	530.7	546.9
12.5°	490.9	504.8	521.0	538.6
15°	475.6	489.5	507.6	531.2
17.5°	461.7	478.4	497.8	522.8
20°	445.6	461.3	482.6	511.3
22.5°	431.2	449.3	472.9	497.8
25°	415.5	431.2	454.8	484.9
27.5°	399.8	419.2	441.9	471.0
30°	384.5	400.7	425.2	455.7
32.5°	367.8	387.3	409.9	438.6
35°	349.8	368.3	389.6	420.6
37.5°	333.6	351.6	373.4	400.7
40°	315.5	334.5	354.4	381.7
42.5°	298.0	315.1	335.0	360.0
45°	280.8	295.6	313.7	335.4
47.5°	263.3	275.8	292.4	311.8
50°	244.3	257.7	270.2	286.4
52.5°	226.7	238.3	248.5	261.9
55°	209.6	217.5	225.8	236.0
57.5°	191.5	197.6	203.6	214.2
60°	173.5	179.1	182.3	189.2
62.5°	155.9	158.2	162.4	166.6
65°	136.5	139.7	142.0	147.1
67.5°	118.9	120.3	122.6	125.8
70°	100.4	103.6	104.6	106.9
72.5°	84.7	86.1	87.0	87.4
75°	67.1	68.5	69.4	72.2
77.5°	52.7	52.3	54.1	54.6
80°	38.9	37.5	37.9	39.8
82.5°	25.4	25.9	25.4	25.4
85°	15.7	15.3	14.3	14.8
87.5°	6.9	6.9	6.5	6.5
90°	7.9	6.0	4.2	2.3
92.5°	10.5	10.8	11.2	11.5
95°	24.8	30.6	36.4	42.2
97.5°	91.8	88.0	84.3	80.5
100°	135.0	131.9	128.9	125.8
102.5°	182.5	180.5	178.4	176.4
105°	233.9	232.8	231.8	230.8
107.5°	282.2	281.7	281.2	280.7
110°	332.8	332.3	331.8	331.3



TEST NUMBER: P1001351

CATALOG NUMBER: SA4XXDIP-B350D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	383.5	382.4	381.4	380.4
115°	432.5	432.0	431.5	431.0
117.5°	478.3	477.6	477.0	476.3
120°	524.3	523.6	523.0	522.3
122.5°	566.3	565.9	565.6	565.2
125°	607.9	607.2	606.6	605.9
127.5°	645.5	645.4	645.2	645.0
130°	683.1	682.9	682.8	682.6
132.5°	718.1	717.8	717.4	717.1
135°	751.1	751.2	751.4	751.6
137.5°	782.3	782.3	782.3	782.3
140°	813.2	812.9	812.5	812.2
142.5°	841.1	840.4	839.7	839.0
145°	868.1	867.6	867.1	866.6
147.5°	891.2	890.1	889.1	888.1
150°	913.9	913.2	912.6	911.9
152.5°	933.3	932.8	932.3	931.8
155°	950.7	950.6	950.4	950.2
157.5°	966.3	966.3	966.3	966.3
160°	978.6	979.1	979.6	980.1
162.5°	990.3	991.0	991.7	992.4
165°	999.8	1000.7	1001.5	1002.4
167.5°	1008.3	1009.1	1010.0	1010.8
170°	1014.6	1015.7	1016.7	1017.7
172.5°	1019.2	1020.3	1021.3	1022.3
175°	1022.3	1023.4	1024.4	1025.4
177.5°	1024.1	1025.3	1026.5	1027.7
180°	1025.4	1025.4	1025.4	1025.4

(END OF REPORT)