

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: P999594

Luminaire Tested: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999594
REPORT IS A COMBINATION OF REPORTS P988147 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

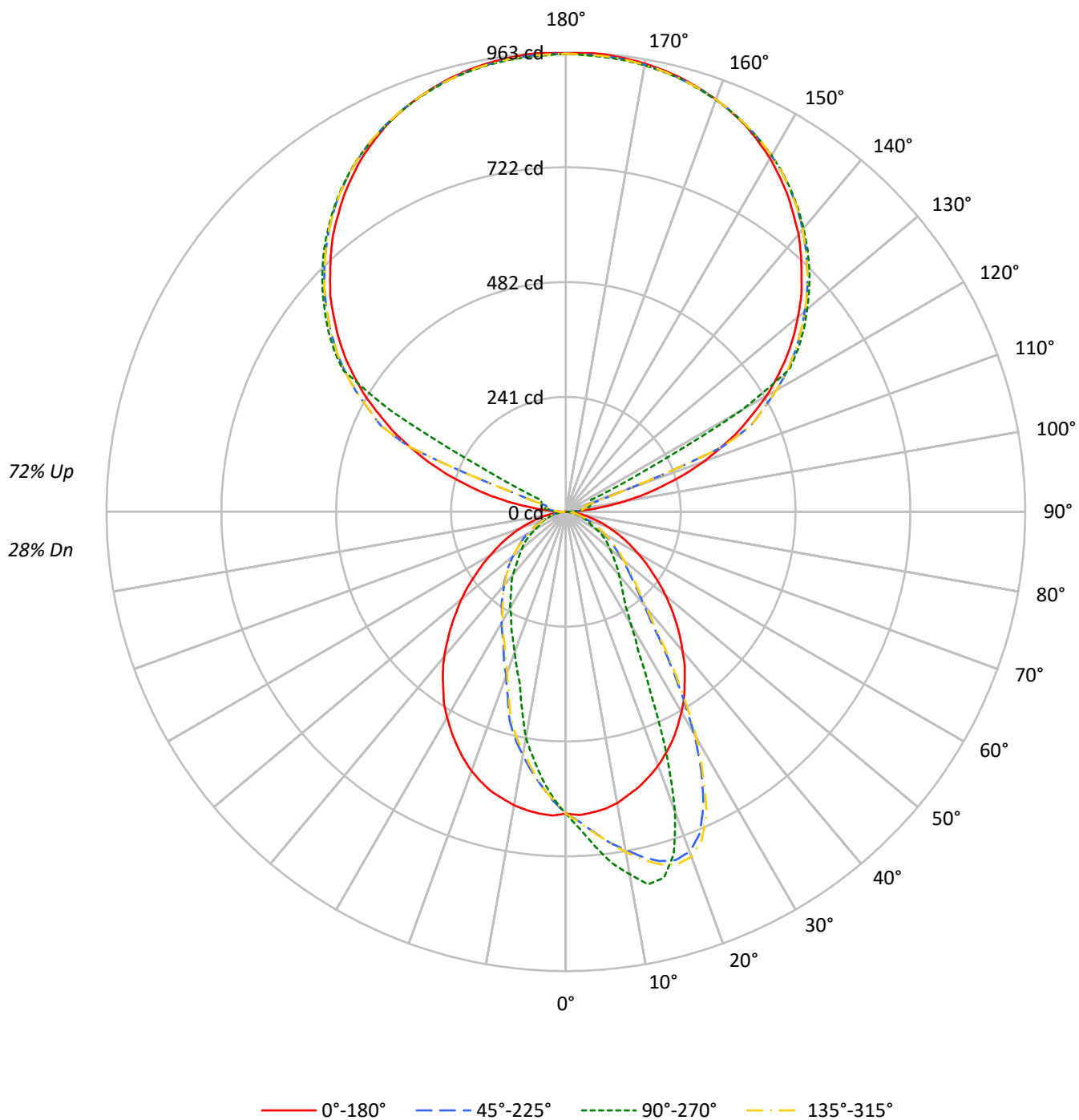
Lumens per Lamp: N/A
Luminaire Lumens: 3909.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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



TEST NUMBER: P999594

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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	32	32	31
2	85	78	73	68	76	70	66	62	56	52	50	42	40	38	29	28	27
3	78	69	63	57	70	62	57	52	49	45	42	37	35	33	26	25	23
4	72	62	54	49	64	56	49	44	44	40	36	34	31	28	24	22	21
5	66	55	47	42	59	50	43	38	40	35	31	30	27	25	22	20	18
6	61	49	42	36	54	45	38	33	36	31	28	28	24	22	20	18	16
7	56	45	37	32	50	40	34	29	33	28	24	25	22	20	18	16	15
8	52	41	33	28	47	37	30	26	30	25	22	23	20	18	17	15	13
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	16	14	12
10	45	34	27	23	41	31	25	21	25	21	18	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10012	10012	10012	10012
5°	10035	10634	10070	8496
10°	9925	11240	9995	7015
15°	9709	11243	9873	5270
20°	9450	9293	9655	4348
25°	9136	5807	9333	3699
30°	8735	3718	8973	3185
35°	8248	2858	8514	2725
40°	7703	2402	8033	2384
45°	7122	2044	7421	2001
50°	6526	1737	6832	1731
55°	5867	1510	6185	1489
60°	5283	1151	5562	1137
65°	4735	866	5016	982
70°	4131	692	4452	801
75°	3491	530	3810	605
80°	2770	359	2986	397
85°	1921	186	2105	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 9159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	1.5
10°-20°	167.5	4.3
20°-30°	215.5	5.5
30°-40°	204.5	5.2
40°-50°	175.2	4.5
50°-60°	133.4	3.4
60°-70°	84.2	2.2
70°-80°	42.0	1.1
80°-90°	12.5	0.3
90°-100°	31.7	0.8
100°-110°	118.0	3.0
110°-120°	313.0	8.0
120°-130°	519.1	13.3
130°-140°	551.4	14.1
140°-150°	512.4	13.1
150°-160°	412.0	10.5
160°-170°	265.5	6.8
170°-180°	91.4	2.3
0°-30°	443.0	11.3
0°-40°	647.4	16.6
0°-60°	956.1	24.5
0°-90°	1094.7	28.0
90°-120°	462.7	11.8
90°-150°	2045.5	52.3
90°-180°	2814.0	72.0
0°-180°	3909.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	632	632	632	632	632	
5°	633	704	635	562	633	60
15°	596	794	606	372	596	168
25°	529	424	541	270	529	243
35°	434	209	448	199	434	272
45°	326	145	340	142	326	252
55°	220	101	232	99	220	198
65°	133	52	141	59	133	132
75°	62	28	68	32	62	68
85°	14	8	15	8	14	15
90°	1	19	1	19	1	3
95°	45	30	45	30	45	53
105°	211	53	211	53	211	226
115°	399	57	399	57	399	393
125°	565	594	565	594	565	504
135°	699	722	699	722	699	540
145°	811	823	811	823	811	507
155°	893	893	893	893	893	411
165°	940	938	940	938	940	266
175°	962	956	962	956	962	92
180°	960	960	960	960	960	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	636.4	639.1	640.4	642.1	646.1	648.7	652.7	653.6	653.1	654.9	650.1
5°	632.9	638.6	643.9	648.3	655.3	659.7	664.6	670.3	671.6	678.2	674.2
7.5°	628.1	636.4	643.9	652.7	663.2	669.0	676.4	685.2	689.2	697.1	699.3
10°	620.2	632.0	644.8	654.0	668.5	678.6	685.7	699.7	709.0	720.8	719.1
12.5°	607.4	622.8	639.9	655.3	674.2	680.8	694.0	708.5	720.4	731.4	741.0
15°	596.4	614.0	632.9	651.8	673.4	685.7	698.8	717.7	730.5	749.8	758.2
17.5°	581.5	603.9	626.3	647.4	672.9	687.0	703.2	721.7	740.6	759.1	765.7
20°	566.1	590.3	614.5	643.0	672.0	685.7	702.4	725.2	743.7	758.2	758.2
22.5°	547.6	577.1	604.8	632.0	663.7	683.5	700.6	727.4	740.6	743.7	731.8
25°	529.2	558.6	589.0	622.8	658.8	676.4	695.8	720.8	725.2	712.9	682.1
27.5°	507.2	540.2	574.5	610.9	648.7	670.7	688.3	705.0	696.6	663.7	615.8
30°	484.8	520.4	559.1	593.8	639.5	659.7	674.7	679.5	653.1	599.5	537.5
32.5°	461.5	496.2	537.1	578.9	625.0	644.3	654.0	641.3	592.9	525.2	449.6
35°	434.3	473.4	516.0	559.5	605.2	619.7	625.4	594.2	532.3	444.8	369.6
37.5°	409.6	448.8	494.5	538.9	583.3	591.2	585.4	536.7	458.0	371.4	298.0
40°	380.6	422.4	467.2	516.9	553.4	555.6	541.5	478.2	380.6	299.3	254.0
42.5°	353.8	396.0	440.8	491.4	519.1	511.6	492.7	409.6	317.8	258.0	221.5
45°	326.1	366.1	414.5	459.3	479.1	461.5	432.9	344.6	266.8	222.0	193.8
47.5°	299.3	336.7	384.6	427.7	431.2	411.4	377.6	288.8	231.2	195.1	172.3
50°	272.9	310.3	355.1	390.7	387.2	360.0	321.7	251.0	200.9	172.3	153.4
52.5°	246.6	280.4	323.9	352.1	337.1	310.7	272.9	212.7	175.4	150.3	135.8
55°	220.2	251.8	289.2	312.5	288.8	258.4	231.6	182.4	152.1	131.9	120.9
57.5°	198.2	223.3	257.6	271.6	243.1	219.3	196.0	156.9	131.9	117.4	104.6
60°	174.1	196.9	225.0	233.4	203.9	184.6	164.8	132.7	113.0	100.2	91.9
62.5°	153.4	172.3	193.8	193.8	167.9	153.4	138.5	111.2	94.9	84.8	80.9
65°	133.2	146.8	162.2	160.4	138.5	125.7	113.8	91.9	79.6	72.5	68.6
67.5°	113.4	123.9	134.1	127.9	112.1	101.1	90.1	74.3	65.9	61.1	55.8
70°	95.4	103.7	109.0	103.3	87.5	78.2	70.3	59.8	53.2	47.0	44.0
72.5°	80.0	83.5	85.3	78.2	65.0	59.8	54.1	46.6	40.9	37.8	36.9
75°	62.4	65.5	64.2	58.9	47.9	44.0	39.6	34.3	33.0	31.2	30.3
77.5°	48.8	48.8	46.6	41.8	34.3	31.2	29.4	26.8	25.5	25.1	24.2
80°	34.7	34.3	33.0	27.7	23.3	21.5	21.5	19.8	19.3	18.5	18.5
82.5°	22.9	22.9	21.1	16.7	15.4	14.9	14.5	13.6	13.6	13.2	13.2
85°	13.6	12.7	10.5	9.2	8.8	8.8	8.4	7.9	8.4	7.9	7.9
87.5°	6.2	4.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
90°	0.7	2.4	4.1	5.8	7.5	8.3	8.9	10.2	11.4	12.7	13.9
92.5°	17.4	16.8	16.2	15.5	14.9	14.6	14.8	15.3	15.8	16.2	16.7
95°	45.2	40.1	35.0	29.9	24.8	22.2	22.7	23.8	24.9	26.0	27.1
97.5°	81.3	68.6	56.0	43.3	30.6	24.3	25.5	28.0	30.5	32.9	35.4
100°	122.9	101.8	80.6	59.5	38.4	27.8	29.1	31.7	34.4	37.0	39.6
102.5°	168.8	168.5	168.2	167.9	167.6	167.4	153.4	125.3	97.2	69.1	41.0
105°	211.2	215.8	220.4	225.1	229.7	232.0	210.9	168.8	126.7	84.5	42.4
107.5°	260.5	264.4	268.2	272.1	276.0	277.9	251.9	199.9	147.8	95.8	43.8
110°	307.7	310.9	314.2	317.4	320.7	322.3	300.0	255.4	210.8	166.2	121.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	352.2	355.0	357.8	360.5	363.3	364.7	363.4	360.8	358.1	355.5	352.9
115°	399.4	402.0	404.6	407.3	409.9	411.2	413.1	417.0	420.9	424.7	428.6
117.5°	440.4	443.5	446.6	449.7	452.8	454.3	455.6	458.2	460.9	463.5	466.1
120°	486.2	488.5	490.9	493.2	495.5	496.7	498.1	500.9	503.6	506.4	509.2
122.5°	525.1	527.6	530.1	532.6	535.1	536.3	537.8	540.9	544.0	547.0	550.1
125°	564.7	566.7	568.7	570.8	572.8	573.8	575.3	578.2	581.1	584.1	587.0
127.5°	600.9	603.1	605.2	607.4	609.5	610.6	611.8	614.1	616.4	618.7	621.0
130°	634.9	637.4	639.8	642.3	644.8	646.0	646.8	648.5	650.2	651.9	653.6
132.5°	669.6	671.6	673.6	675.7	677.7	678.7	679.5	681.2	682.9	684.6	686.3
135°	698.8	701.3	703.7	706.2	708.7	709.9	710.6	712.0	713.4	714.8	716.2
137.5°	729.4	731.2	733.1	734.9	736.8	737.7	738.5	740.0	741.5	743.1	744.6
140°	759.2	760.4	761.7	762.9	764.2	764.8	765.6	767.3	769.0	770.7	772.4
142.5°	784.2	785.3	786.4	787.5	788.6	789.1	790.1	792.1	794.1	796.1	798.1
145°	810.6	810.4	810.3	810.1	810.0	809.9	811.2	813.8	816.5	819.1	821.7
147.5°	833.6	833.1	832.7	832.2	831.7	831.5	832.8	835.4	838.1	840.7	843.3
150°	855.8	854.7	853.6	852.5	851.4	850.9	852.1	854.6	857.1	859.5	862.0
152.5°	874.5	873.3	872.1	870.8	869.6	869.0	870.2	872.5	874.8	877.1	879.4
155°	892.6	891.2	889.8	888.4	887.0	886.3	887.2	889.1	891.0	892.8	894.7
157.5°	907.2	906.0	904.7	903.5	902.2	901.6	902.3	903.7	905.1	906.5	907.9
160°	919.7	918.8	917.8	916.9	916.0	915.5	916.0	916.9	917.8	918.8	919.7
162.5°	930.8	929.9	928.9	928.0	927.1	926.6	927.0	927.8	928.5	929.3	930.1
165°	940.5	939.6	938.7	937.8	936.9	936.4	936.6	937.1	937.5	938.0	938.4
167.5°	948.2	947.3	946.3	945.4	944.5	944.0	944.2	944.7	945.2	945.6	946.1
170°	954.4	953.5	952.6	951.7	950.8	950.3	950.4	950.7	951.0	951.3	951.6
172.5°	958.6	957.7	956.7	955.8	954.9	954.4	954.6	954.9	955.2	955.5	955.8
175°	962.1	961.0	959.9	958.8	957.7	957.2	957.4	957.7	958.0	958.3	958.6
177.5°	963.4	962.3	961.3	960.2	959.1	958.6	958.7	958.8	959.0	959.1	959.3
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	654.9	655.8	657.1	663.2	664.1	665.9	665.0	665.0	665.4	664.6	665.0
5°	683.0	684.3	690.9	698.4	700.2	698.4	700.6	703.7	703.7	703.7	702.8
7.5°	709.4	714.2	721.7	732.7	734.9	737.1	741.0	738.4	739.3	743.2	741.9
10°	734.9	741.9	750.3	759.5	764.3	767.4	769.2	773.1	782.4	771.8	775.8
12.5°	759.1	769.2	778.0	788.1	791.6	795.5	796.9	800.4	800.4	799.9	803.0
15°	774.9	784.1	792.0	798.6	799.5	798.6	797.7	798.2	799.5	794.2	797.3
17.5°	778.4	779.3	781.9	779.3	779.7	770.5	765.2	763.9	751.6	752.0	762.1
20°	761.3	746.3	742.4	727.9	719.1	695.3	694.5	687.9	661.9	669.8	668.1
22.5°	714.2	688.7	654.9	638.2	629.8	604.8	585.4	571.8	562.6	553.4	549.4
25°	652.3	610.9	563.0	530.1	525.2	501.9	466.3	449.6	429.9	423.7	434.3
27.5°	572.3	518.6	464.6	414.0	404.8	383.7	365.7	353.8	331.0	329.6	330.5
30°	463.7	409.6	364.4	331.4	308.5	298.9	287.0	278.2	269.0	272.5	273.4
32.5°	381.1	329.6	287.4	269.9	259.3	253.2	243.1	237.3	233.4	232.1	231.6
35°	302.8	268.6	249.7	232.5	226.4	222.0	214.5	211.9	208.3	208.8	208.8
37.5°	259.3	230.8	216.7	207.9	202.2	200.0	195.1	192.5	190.3	189.4	190.8
40°	223.7	203.9	195.1	187.2	182.4	181.5	178.9	175.8	173.2	173.6	174.9
42.5°	197.8	186.4	175.8	169.7	166.1	164.8	162.6	160.4	160.4	159.1	158.7
45°	177.1	167.9	159.1	153.4	151.2	149.4	146.8	146.4	144.6	145.0	145.5
47.5°	158.7	151.2	144.6	138.9	136.7	136.3	133.6	131.9	131.9	131.4	131.0
50°	142.0	134.5	128.8	125.7	122.6	121.7	121.3	120.9	120.0	120.0	120.4
52.5°	128.3	120.9	116.5	113.8	112.1	111.2	111.2	110.8	110.8	110.8	110.3
55°	113.4	107.2	103.7	102.8	102.0	101.5	101.1	100.2	99.8	100.7	99.8
57.5°	99.3	97.1	94.1	93.2	91.0	91.0	89.7	88.8	87.9	88.8	88.8
60°	88.3	85.3	83.5	80.9	79.1	77.4	75.2	74.7	73.8	73.4	73.0
62.5°	76.9	74.3	69.9	65.9	63.3	61.5	60.7	60.2	60.2	59.8	59.8
65°	64.2	58.0	55.8	54.5	54.1	53.6	52.7	52.3	52.7	52.3	52.7
67.5°	50.1	49.2	47.9	47.0	46.6	46.2	46.2	45.7	45.7	45.7	45.7
70°	43.5	41.3	40.9	40.0	40.0	39.6	39.6	39.6	39.6	39.1	40.0
72.5°	36.0	34.7	34.3	33.8	33.8	33.8	33.4	33.4	33.4	33.0	33.4
75°	29.4	29.0	28.1	28.1	27.7	28.1	27.7	27.7	27.3	27.7	27.7
77.5°	23.7	23.3	22.9	22.9	22.4	22.4	22.4	22.4	22.4	22.4	22.9
80°	18.0	17.6	17.1	17.6	17.1	17.6	17.1	17.1	17.6	17.1	17.1
82.5°	13.2	12.7	12.7	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
85°	7.9	7.5	7.5	7.9	7.5	7.9	7.5	7.5	7.5	7.9	7.9
87.5°	3.5	4.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
90°	14.7	15.5	16.2	17.0	17.4	17.6	17.9	18.2	18.5	18.8	18.5
92.5°	17.0	17.3	17.6	17.9	18.1	18.2	18.3	18.5	18.6	18.8	18.6
95°	27.9	28.7	29.4	30.2	30.6	30.5	30.4	30.2	30.1	29.9	30.1
97.5°	35.9	36.3	36.8	37.3	37.5	37.6	37.7	37.9	38.0	38.2	38.0
100°	40.8	42.1	43.3	44.6	45.2	45.3	45.6	45.9	46.2	46.5	46.2
102.5°	42.7	44.4	46.1	47.8	48.6	48.8	49.3	49.8	50.2	50.7	50.2
105°	44.1	45.8	47.5	49.2	50.0	50.3	50.9	51.6	52.2	52.8	52.2
107.5°	45.5	47.2	48.9	50.6	51.4	51.7	52.3	53.0	53.6	54.2	53.6
110°	106.2	90.7	75.3	59.8	52.1	52.4	53.0	53.7	54.3	54.9	54.3

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	286.4	219.8	153.3	86.8	53.5	53.7	54.2	54.7	55.1	55.6	55.1
115°	357.1	285.7	214.2	142.7	107.0	101.4	90.3	79.2	68.1	57.0	68.1
117.5°	444.0	422.0	399.9	377.8	366.8	346.6	306.1	265.7	225.2	184.8	225.2
120°	511.0	512.9	514.7	516.6	517.5	507.1	486.2	465.4	444.5	423.7	444.5
122.5°	551.0	552.0	552.9	553.8	554.3	554.4	554.5	554.7	554.8	555.0	554.8
125°	588.1	589.1	590.2	591.3	591.8	592.0	592.5	593.0	593.4	593.9	593.4
127.5°	622.5	624.1	625.6	627.1	627.9	628.0	628.1	628.3	628.4	628.6	628.4
130°	655.3	657.0	658.7	660.4	661.3	661.2	661.1	660.9	660.8	660.6	660.8
132.5°	687.7	689.1	690.4	691.8	692.5	692.4	692.3	692.1	692.0	691.8	692.0
135°	717.7	719.3	720.8	722.3	723.1	722.9	722.6	722.3	722.0	721.7	722.0
137.5°	746.2	747.7	749.3	750.8	751.6	751.4	750.9	750.4	750.0	749.5	750.0
140°	773.8	775.2	776.6	778.0	778.7	778.3	777.5	776.8	776.0	775.2	776.0
142.5°	799.3	800.6	801.8	803.1	803.7	803.3	802.5	801.8	801.0	800.2	801.0
145°	822.8	823.9	825.0	826.1	826.6	826.2	825.4	824.7	823.9	823.1	823.9
147.5°	844.1	844.9	845.6	846.4	846.8	846.5	845.9	845.2	844.6	844.0	844.6
150°	862.9	863.9	864.8	865.7	866.2	865.8	865.0	864.3	863.5	862.7	863.5
152.5°	880.3	881.3	882.2	883.1	883.6	883.1	882.0	880.9	879.8	878.7	879.8
155°	895.6	896.5	897.4	898.3	898.8	898.2	897.0	895.7	894.5	893.3	894.5
157.5°	909.0	910.0	911.1	912.2	912.7	912.1	910.9	909.6	908.4	907.2	908.4
160°	920.6	921.6	922.5	923.4	923.9	923.4	922.3	921.2	920.1	919.0	920.1
162.5°	931.2	932.3	933.4	934.5	935.0	934.3	932.9	931.5	930.1	928.7	930.1
165°	939.5	940.6	941.7	942.8	943.3	942.8	941.7	940.6	939.5	938.4	939.5
167.5°	947.2	948.2	949.3	950.4	950.9	950.2	948.8	947.5	946.1	944.7	946.1
170°	952.7	953.8	954.9	956.0	956.5	955.8	954.4	953.1	951.7	950.3	951.7
172.5°	956.9	958.0	959.1	960.2	960.7	960.0	958.6	957.2	955.8	954.4	955.8
175°	959.7	960.7	961.8	962.9	963.4	962.6	961.1	959.6	958.0	956.5	958.0
177.5°	960.4	961.4	962.5	963.6	964.1	963.4	962.0	960.7	959.3	957.9	959.3
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	666.8	663.7	662.8	663.7	662.8	663.2	660.2	648.7	651.8	647.0	649.6
5°	704.6	701.9	696.2	695.3	694.5	693.6	689.2	679.1	675.1	668.5	668.1
7.5°	740.6	740.6	736.2	733.1	729.2	726.1	720.4	705.4	699.3	691.4	687.0
10°	776.2	764.8	769.6	766.5	756.9	755.1	744.6	735.8	723.9	716.0	709.0
12.5°	801.7	798.2	793.8	791.1	788.5	782.8	775.8	753.3	747.2	731.4	723.5
15°	800.8	798.6	799.9	799.9	799.1	797.7	792.0	775.8	765.2	749.8	736.2
17.5°	757.7	763.5	769.2	773.1	781.9	785.9	791.1	781.5	774.9	761.7	747.2
20°	682.6	696.6	713.4	716.9	724.8	748.1	758.6	767.0	769.6	765.2	753.3
22.5°	578.0	589.8	630.3	629.4	640.8	668.5	699.3	724.3	744.1	755.1	750.7
25°	452.7	469.4	491.0	507.2	544.6	585.9	624.1	664.1	698.4	728.7	736.2
27.5°	342.4	364.4	381.5	403.0	421.9	470.7	520.0	582.4	622.4	679.9	709.8
30°	276.9	287.0	304.2	314.3	323.5	360.9	416.7	478.2	548.5	614.9	666.3
32.5°	236.5	243.5	256.2	260.6	270.3	295.4	330.5	386.8	459.3	539.7	607.4
35°	212.3	219.8	222.4	226.4	234.3	250.1	274.3	315.1	380.6	459.3	540.2
37.5°	191.6	195.6	203.1	205.7	208.3	220.2	236.5	265.0	308.5	373.2	462.8
40°	177.1	179.3	183.3	185.5	187.2	195.6	210.1	229.4	261.5	310.7	393.4
42.5°	161.7	164.4	167.0	169.7	171.9	178.4	187.2	205.7	227.2	264.6	324.4
45°	146.8	148.6	151.6	153.4	156.5	161.7	169.7	182.4	201.7	225.5	273.8
47.5°	133.2	135.4	136.7	138.9	141.1	146.8	154.3	162.6	178.4	201.7	236.9
50°	120.9	123.5	125.3	125.7	127.5	132.7	138.9	148.1	158.2	176.2	207.0
52.5°	112.1	112.5	113.8	115.6	115.2	118.2	123.9	131.0	141.5	156.0	178.4
55°	102.0	103.3	104.2	104.6	104.6	107.2	110.3	116.9	125.3	137.1	156.0
57.5°	89.2	90.5	93.2	94.1	95.4	96.7	98.0	102.4	109.4	120.9	136.3
60°	76.0	76.9	79.6	81.3	82.2	85.7	87.5	91.0	94.9	103.3	117.8
62.5°	61.1	62.0	63.3	65.0	66.8	72.1	76.5	80.0	83.1	88.8	100.7
65°	53.2	53.6	54.5	54.9	55.4	57.6	61.5	66.4	72.1	76.5	83.5
67.5°	46.2	46.6	47.0	47.9	48.3	48.8	50.5	51.9	57.6	63.7	69.0
70°	39.6	40.4	40.9	40.9	41.3	42.2	43.1	44.8	46.6	49.7	56.3
72.5°	33.4	33.8	34.7	34.7	34.7	35.6	36.5	37.4	38.2	40.0	42.6
75°	27.7	28.6	28.6	28.6	29.0	29.0	29.9	30.8	31.6	33.0	33.8
77.5°	22.9	22.9	22.9	22.9	23.3	23.3	23.7	24.6	25.1	25.5	26.4
80°	17.1	17.6	17.6	17.6	18.0	18.0	18.0	18.9	19.3	19.3	20.2
82.5°	12.7	12.7	12.7	13.2	12.7	13.2	13.2	13.6	13.2	13.6	14.1
85°	7.9	7.9	7.9	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.8
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.0	4.0
90°	18.2	17.9	17.6	17.4	17.0	16.2	15.5	14.7	13.9	12.7	11.4
92.5°	18.5	18.3	18.2	18.1	17.9	17.6	17.3	17.0	16.7	16.2	15.8
95°	30.2	30.4	30.5	30.6	30.2	29.4	28.7	27.9	27.1	26.0	24.9
97.5°	37.9	37.7	37.6	37.5	37.3	36.8	36.3	35.9	35.4	32.9	30.5
100°	45.9	45.6	45.3	45.2	44.6	43.3	42.1	40.8	39.6	37.0	34.4
102.5°	49.8	49.3	48.8	48.6	47.8	46.1	44.4	42.7	41.0	39.1	37.2
105°	51.6	50.9	50.3	50.0	49.2	47.5	45.8	44.1	42.4	40.5	38.8
107.5°	53.0	52.3	51.7	51.4	50.6	48.9	47.2	45.5	43.8	42.1	40.4
110°	53.7	53.0	52.4	52.1	51.8	51.1	50.4	49.7	49.0	48.3	47.6

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	54.7	54.2	53.7	53.5	86.8	153.3	219.8	286.4	352.9	355.5	358.1
115°	79.2	90.3	101.4	107.0	142.7	214.2	285.7	357.1	428.6	424.7	420.9
117.5°	265.7	306.1	346.6	366.8	377.8	399.9	422.0	444.0	466.1	463.5	460.9
120°	465.4	486.2	507.1	517.5	516.6	514.7	512.9	511.0	509.2	506.4	503.6
122.5°	554.7	554.5	554.4	554.3	553.8	552.9	552.0	551.0	550.1	547.0	544.0
125°	593.0	592.5	592.0	591.8	591.3	590.2	589.1	588.1	587.0	584.1	581.1
127.5°	628.3	628.1	628.0	627.9	627.1	625.6	624.1	622.5	621.0	618.7	616.4
130°	660.9	661.1	661.2	661.3	660.4	658.7	657.0	655.3	653.6	651.9	650.2
132.5°	692.1	692.3	692.4	692.5	691.8	690.4	689.1	687.7	686.3	684.6	682.9
135°	722.3	722.6	722.9	723.1	722.3	720.8	719.3	717.7	716.2	714.8	713.4
137.5°	750.4	750.9	751.4	751.6	750.8	749.3	747.7	746.2	744.6	743.1	741.5
140°	776.8	777.5	778.3	778.7	778.0	776.6	775.2	773.8	772.4	770.7	769.0
142.5°	801.8	802.5	803.3	803.7	803.1	801.8	800.6	799.3	798.1	796.1	794.1
145°	824.7	825.4	826.2	826.6	826.1	825.0	823.9	822.8	821.7	819.1	816.5
147.5°	845.2	845.9	846.5	846.8	846.4	845.6	844.9	844.1	843.3	840.7	838.1
150°	864.3	865.0	865.8	866.2	865.7	864.8	863.9	862.9	862.0	859.5	857.1
152.5°	880.9	882.0	883.1	883.6	883.1	882.2	881.3	880.3	879.4	877.1	874.8
155°	895.7	897.0	898.2	898.8	898.3	897.4	896.5	895.6	894.7	892.8	891.0
157.5°	909.6	910.9	912.1	912.7	912.2	911.1	910.0	909.0	907.9	906.5	905.1
160°	921.2	922.3	923.4	923.9	923.4	922.5	921.6	920.6	919.7	918.8	917.8
162.5°	931.5	932.9	934.3	935.0	934.5	933.4	932.3	931.2	930.1	929.3	928.5
165°	940.6	941.7	942.8	943.3	942.8	941.7	940.6	939.5	938.4	938.0	937.5
167.5°	947.5	948.8	950.2	950.9	950.4	949.3	948.2	947.2	946.1	945.6	945.2
170°	953.1	954.4	955.8	956.5	956.0	954.9	953.8	952.7	951.6	951.3	951.0
172.5°	957.2	958.6	960.0	960.7	960.2	959.1	958.0	956.9	955.8	955.5	955.2
175°	959.6	961.1	962.6	963.4	962.9	961.8	960.7	959.7	958.6	958.3	958.0
177.5°	960.7	962.0	963.4	964.1	963.6	962.5	961.4	960.4	959.3	959.1	959.0
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	645.7	643.5	643.5	642.1	642.1	635.1	635.1	637.3	634.7	631.6	627.2
5°	662.4	657.5	656.2	654.5	648.7	639.9	636.4	635.1	629.8	623.2	615.8
7.5°	678.2	670.3	666.3	662.4	654.9	642.6	635.6	630.7	622.8	612.7	603.0
10°	693.6	683.5	673.4	668.5	658.0	642.6	632.5	624.6	613.1	599.5	585.9
12.5°	707.6	686.5	684.8	675.1	659.7	642.1	626.8	615.3	600.8	585.0	569.2
15°	719.9	698.4	687.9	679.1	658.8	636.9	620.6	606.5	587.2	569.2	549.8
17.5°	726.1	702.8	695.8	681.3	660.6	632.0	610.1	592.9	571.8	550.3	528.3
20°	732.3	705.0	693.6	683.5	655.3	622.8	598.2	578.4	555.1	529.6	505.5
22.5°	735.3	705.0	691.4	677.3	650.1	612.7	583.7	560.4	533.1	507.2	478.2
25°	730.1	702.4	686.1	671.6	640.8	600.4	567.0	540.6	511.6	482.2	452.7
27.5°	716.9	696.2	677.3	662.4	628.1	584.6	549.4	519.5	489.6	456.7	426.8
30°	692.3	683.0	668.1	651.4	614.0	570.5	528.7	498.0	465.0	432.1	400.8
32.5°	654.0	661.9	652.3	637.8	597.3	551.2	506.8	475.6	439.5	403.9	375.4
35°	607.4	635.6	630.3	620.2	579.7	530.5	486.1	448.3	412.3	376.2	347.7
37.5°	556.4	599.1	603.5	597.3	559.5	509.4	460.6	423.7	386.8	350.3	321.3
40°	486.6	552.0	566.1	568.7	538.4	483.9	432.9	396.9	360.4	324.8	289.6
42.5°	422.4	505.0	522.6	533.6	511.6	458.9	407.4	367.4	331.4	299.3	264.2
45°	362.2	448.3	476.9	491.0	481.3	430.3	377.1	339.8	306.8	277.3	243.5
47.5°	300.2	386.8	426.8	449.2	449.2	401.3	348.1	311.2	279.5	254.5	224.6
50°	258.9	331.0	372.3	401.7	409.6	371.8	321.7	285.7	255.8	228.6	205.7
52.5°	220.6	285.3	319.5	350.3	373.2	340.2	292.3	259.8	230.3	204.8	186.8
55°	190.8	239.1	270.3	304.2	329.6	308.1	263.7	232.1	206.6	185.5	170.1
57.5°	162.2	204.4	229.9	259.8	287.0	270.7	235.1	207.9	185.5	167.0	153.4
60°	138.0	172.3	192.1	215.4	249.2	237.8	208.3	183.3	165.3	148.6	137.1
62.5°	117.4	144.6	161.3	178.0	208.8	203.5	180.6	161.3	145.9	131.9	122.2
65°	96.3	118.7	131.9	146.4	171.0	173.2	154.7	141.1	127.0	114.7	105.9
67.5°	77.8	95.4	107.2	119.6	139.3	145.5	132.7	121.3	109.4	99.3	91.4
70°	62.9	75.2	83.9	93.6	109.9	117.4	110.8	102.8	93.2	84.8	77.8
72.5°	49.7	57.6	62.9	70.3	83.5	91.0	90.5	83.5	76.5	70.8	65.0
75°	36.5	42.6	47.0	51.9	62.4	69.4	71.2	68.1	61.1	56.7	52.3
77.5°	27.7	31.2	33.4	36.9	44.4	50.5	53.2	52.3	47.5	44.0	40.9
80°	21.1	22.0	22.9	24.2	30.3	36.0	37.8	37.4	34.7	33.4	29.9
82.5°	14.9	15.4	15.8	16.3	18.5	23.3	25.1	25.9	23.7	22.4	19.3
85°	8.8	9.2	9.2	10.1	10.5	11.9	14.9	14.9	14.5	12.7	12.3
87.5°	4.4	4.4	4.0	4.0	4.4	4.8	5.7	6.6	5.7	5.3	4.8
90°	10.2	8.9	8.3	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.3	14.8	14.6	14.9	15.5	16.2	16.8	17.4	16.8	16.2	15.5
95°	23.8	22.7	22.2	24.8	29.9	35.0	40.1	45.2	40.1	35.0	29.9
97.5°	28.0	25.5	24.3	30.6	43.3	56.0	68.6	81.3	68.6	56.0	43.3
100°	31.7	29.1	27.8	38.4	59.5	80.6	101.8	122.9	101.8	80.6	59.5
102.5°	125.3	153.4	167.4	167.6	167.9	168.2	168.5	168.8	168.5	168.2	167.9
105°	168.8	210.9	232.0	229.7	225.1	220.4	215.8	211.2	215.8	220.4	225.1
107.5°	199.9	251.9	277.9	276.0	272.1	268.2	264.4	260.5	264.4	268.2	272.1
110°	255.4	300.0	322.3	320.7	317.4	314.2	310.9	307.7	310.9	314.2	317.4

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	360.8	363.4	364.7	363.3	360.5	357.8	355.0	352.2	355.0	357.8	360.5
115°	417.0	413.1	411.2	409.9	407.3	404.6	402.0	399.4	402.0	404.6	407.3
117.5°	458.2	455.6	454.3	452.8	449.7	446.6	443.5	440.4	443.5	446.6	449.7
120°	500.9	498.1	496.7	495.5	493.2	490.9	488.5	486.2	488.5	490.9	493.2
122.5°	540.9	537.8	536.3	535.1	532.6	530.1	527.6	525.1	527.6	530.1	532.6
125°	578.2	575.3	573.8	572.8	570.8	568.7	566.7	564.7	566.7	568.7	570.8
127.5°	614.1	611.8	610.6	609.5	607.4	605.2	603.1	600.9	603.1	605.2	607.4
130°	648.5	646.8	646.0	644.8	642.3	639.8	637.4	634.9	637.4	639.8	642.3
132.5°	681.2	679.5	678.7	677.7	675.7	673.6	671.6	669.6	671.6	673.6	675.7
135°	712.0	710.6	709.9	708.7	706.2	703.7	701.3	698.8	701.3	703.7	706.2
137.5°	740.0	738.5	737.7	736.8	734.9	733.1	731.2	729.4	731.2	733.1	734.9
140°	767.3	765.6	764.8	764.2	762.9	761.7	760.4	759.2	760.4	761.7	762.9
142.5°	792.1	790.1	789.1	788.6	787.5	786.4	785.3	784.2	785.3	786.4	787.5
145°	813.8	811.2	809.9	810.0	810.1	810.3	810.4	810.6	810.4	810.3	810.1
147.5°	835.4	832.8	831.5	831.7	832.2	832.7	833.1	833.6	833.1	832.7	832.2
150°	854.6	852.1	850.9	851.4	852.5	853.6	854.7	855.8	854.7	853.6	852.5
152.5°	872.5	870.2	869.0	869.6	870.8	872.1	873.3	874.5	873.3	872.1	870.8
155°	889.1	887.2	886.3	887.0	888.4	889.8	891.2	892.6	891.2	889.8	888.4
157.5°	903.7	902.3	901.6	902.2	903.5	904.7	906.0	907.2	906.0	904.7	903.5
160°	916.9	916.0	915.5	916.0	916.9	917.8	918.8	919.7	918.8	917.8	916.9
162.5°	927.8	927.0	926.6	927.1	928.0	928.9	929.9	930.8	929.9	928.9	928.0
165°	937.1	936.6	936.4	936.9	937.8	938.7	939.6	940.5	939.6	938.7	937.8
167.5°	944.7	944.2	944.0	944.5	945.4	946.3	947.3	948.2	947.3	946.3	945.4
170°	950.7	950.4	950.3	950.8	951.7	952.6	953.5	954.4	953.5	952.6	951.7
172.5°	954.9	954.6	954.4	954.9	955.8	956.7	957.7	958.6	957.7	956.7	955.8
175°	957.7	957.4	957.2	957.7	958.8	959.9	961.0	962.1	961.0	959.9	958.8
177.5°	958.8	958.7	958.6	959.1	960.2	961.3	962.3	963.4	962.3	961.3	960.2
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	625.4	625.9	627.2	623.2	617.1	614.5	606.5	605.2	603.9	603.9	605.2
5°	611.4	609.6	610.1	602.6	593.8	588.5	577.5	579.3	573.6	570.1	570.9
7.5°	596.0	591.2	590.7	581.1	570.1	560.4	549.0	546.3	541.1	534.9	532.3
10°	576.7	573.1	566.5	555.6	541.5	533.6	518.2	509.0	507.7	498.4	494.9
12.5°	556.9	550.7	544.1	528.7	512.9	500.2	488.8	478.6	471.6	463.7	458.4
15°	534.0	526.6	519.1	502.8	484.4	471.6	454.5	439.5	418.9	402.6	393.4
17.5°	509.0	500.6	490.5	472.5	454.5	436.9	405.2	387.7	373.2	363.5	357.8
20°	483.0	473.8	463.7	445.7	414.5	383.7	366.1	352.5	343.7	334.0	327.0
22.5°	455.8	446.1	435.1	407.0	374.0	352.5	338.9	326.1	313.4	308.1	304.6
25°	430.3	421.5	407.4	369.2	343.3	323.5	308.1	299.8	293.2	286.1	279.5
27.5°	403.9	387.7	367.9	335.8	319.5	299.3	288.3	282.2	270.7	265.9	262.8
30°	372.3	354.3	335.4	312.5	293.6	279.5	269.4	259.3	252.7	247.9	242.6
32.5°	340.2	323.1	311.2	287.4	273.4	258.9	249.2	243.1	233.4	230.3	228.1
35°	312.5	298.0	287.4	268.1	254.9	241.7	234.7	225.5	219.3	213.6	210.1
37.5°	285.3	277.3	266.4	250.1	236.0	225.5	215.8	212.7	204.4	201.3	197.8
40°	266.4	254.5	245.3	231.2	219.3	207.9	201.7	194.7	189.0	184.2	182.8
42.5°	243.5	234.7	229.4	214.0	201.7	195.1	187.7	179.8	175.4	171.4	166.6
45°	226.4	218.4	211.0	198.7	187.7	179.3	172.7	167.5	160.0	158.2	150.8
47.5°	208.3	200.4	194.7	182.4	172.3	164.4	159.5	152.5	146.4	142.4	138.9
50°	190.3	183.7	178.4	167.9	159.1	150.8	144.2	137.1	134.5	127.9	125.7
52.5°	173.2	168.8	163.1	153.0	144.2	137.1	130.1	124.4	120.4	116.9	114.3
55°	158.7	151.6	149.0	138.0	130.5	123.1	116.9	113.4	108.6	106.4	104.2
57.5°	142.4	138.5	134.1	125.7	117.4	110.3	105.9	100.7	98.0	95.4	93.6
60°	128.3	122.6	119.1	112.1	104.6	98.0	94.1	90.1	86.6	84.4	80.9
62.5°	112.1	107.7	105.5	98.0	91.9	85.7	82.2	78.2	75.6	71.6	67.2
65°	98.0	94.5	91.9	85.7	80.0	74.3	70.8	65.9	62.4	60.2	59.8
67.5°	85.7	83.1	79.1	73.4	67.7	63.3	59.3	55.4	54.9	54.1	54.1
70°	72.1	69.4	67.2	61.1	56.3	51.4	50.5	49.2	47.9	47.5	46.6
72.5°	60.2	58.0	55.4	50.1	45.3	44.0	43.1	42.2	40.9	40.4	40.0
75°	48.8	45.7	44.0	39.1	37.8	36.9	36.0	34.7	33.8	33.4	32.5
77.5°	37.4	34.3	34.3	31.6	30.8	29.4	28.6	27.7	27.3	26.4	26.4
80°	26.4	26.4	25.5	24.2	22.9	22.4	21.1	20.7	20.2	20.7	19.8
82.5°	19.3	17.6	17.6	16.7	15.8	15.4	14.5	14.5	14.1	14.1	14.1
85°	11.0	11.0	10.5	9.7	9.2	9.2	8.8	8.8	8.4	8.4	7.9
87.5°	4.4	4.0	4.4	4.0	4.0	3.5	3.5	3.5	3.1	3.5	3.1
90°	7.5	8.3	8.9	10.2	11.4	12.7	13.9	14.7	15.5	16.2	17.0
92.5°	14.9	14.6	14.8	15.3	15.8	16.2	16.7	17.0	17.3	17.6	17.9
95°	24.8	22.2	22.7	23.8	24.9	26.0	27.1	27.9	28.7	29.4	30.2
97.5°	30.6	24.3	25.5	28.0	30.5	32.9	35.4	35.9	36.3	36.8	37.3
100°	38.4	27.8	29.1	31.7	34.4	37.0	39.6	40.8	42.1	43.3	44.6
102.5°	167.6	167.4	153.4	125.3	97.2	69.1	41.0	42.7	44.4	46.1	47.8
105°	229.7	232.0	210.9	168.8	126.7	84.5	42.4	44.1	45.8	47.5	49.2
107.5°	276.0	277.9	251.9	199.9	147.8	95.8	43.8	45.5	47.2	48.9	50.6
110°	320.7	322.3	300.0	255.4	210.8	166.2	121.6	106.2	90.7	75.3	59.8

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	363.3	364.7	363.4	360.8	358.1	355.5	352.9	286.4	219.8	153.3	86.8
115°	409.9	411.2	413.1	417.0	420.9	424.7	428.6	357.1	285.7	214.2	142.7
117.5°	452.8	454.3	455.6	458.2	460.9	463.5	466.1	444.0	422.0	399.9	377.8
120°	495.5	496.7	498.1	500.9	503.6	506.4	509.2	511.0	512.9	514.7	516.6
122.5°	535.1	536.3	537.8	540.9	544.0	547.0	550.1	551.0	552.0	552.9	553.8
125°	572.8	573.8	575.3	578.2	581.1	584.1	587.0	588.1	589.1	590.2	591.3
127.5°	609.5	610.6	611.8	614.1	616.4	618.7	621.0	622.5	624.1	625.6	627.1
130°	644.8	646.0	646.8	648.5	650.2	651.9	653.6	655.3	657.0	658.7	660.4
132.5°	677.7	678.7	679.5	681.2	682.9	684.6	686.3	687.7	689.1	690.4	691.8
135°	708.7	709.9	710.6	712.0	713.4	714.8	716.2	717.7	719.3	720.8	722.3
137.5°	736.8	737.7	738.5	740.0	741.5	743.1	744.6	746.2	747.7	749.3	750.8
140°	764.2	764.8	765.6	767.3	769.0	770.7	772.4	773.8	775.2	776.6	778.0
142.5°	788.6	789.1	790.1	792.1	794.1	796.1	798.1	799.3	800.6	801.8	803.1
145°	810.0	809.9	811.2	813.8	816.5	819.1	821.7	822.8	823.9	825.0	826.1
147.5°	831.7	831.5	832.8	835.4	838.1	840.7	843.3	844.1	844.9	845.6	846.4
150°	851.4	850.9	852.1	854.6	857.1	859.5	862.0	862.9	863.9	864.8	865.7
152.5°	869.6	869.0	870.2	872.5	874.8	877.1	879.4	880.3	881.3	882.2	883.1
155°	887.0	886.3	887.2	889.1	891.0	892.8	894.7	895.6	896.5	897.4	898.3
157.5°	902.2	901.6	902.3	903.7	905.1	906.5	907.9	909.0	910.0	911.1	912.2
160°	916.0	915.5	916.0	916.9	917.8	918.8	919.7	920.6	921.6	922.5	923.4
162.5°	927.1	926.6	927.0	927.8	928.5	929.3	930.1	931.2	932.3	933.4	934.5
165°	936.9	936.4	936.6	937.1	937.5	938.0	938.4	939.5	940.6	941.7	942.8
167.5°	944.5	944.0	944.2	944.7	945.2	945.6	946.1	947.2	948.2	949.3	950.4
170°	950.8	950.3	950.4	950.7	951.0	951.3	951.6	952.7	953.8	954.9	956.0
172.5°	954.9	954.4	954.6	954.9	955.2	955.5	955.8	956.9	958.0	959.1	960.2
175°	957.7	957.2	957.4	957.7	958.0	958.3	958.6	959.7	960.7	961.8	962.9
177.5°	959.1	958.6	958.7	958.8	959.0	959.1	959.3	960.4	961.4	962.5	963.6
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	605.2	604.3	601.7	602.6	601.3	601.3	600.4	600.4	600.4	602.6	601.3
5°	572.3	569.2	566.1	564.8	563.5	562.2	562.2	561.7	565.7	564.8	568.3
7.5°	531.4	530.5	524.4	524.4	522.2	521.3	523.5	523.9	524.4	525.2	527.4
10°	494.9	492.7	483.9	484.8	483.5	481.7	483.0	482.2	485.2	486.1	485.2
12.5°	451.8	447.9	438.2	433.4	428.1	424.1	429.0	425.5	437.8	441.3	451.0
15°	394.7	387.2	380.6	380.6	375.8	372.3	374.5	378.4	381.1	385.0	386.8
17.5°	356.5	353.4	348.1	345.0	343.7	342.4	342.4	344.1	349.9	349.4	352.9
20°	323.9	322.2	319.5	315.6	314.3	313.4	313.4	313.4	317.3	320.9	323.1
22.5°	301.5	300.2	298.4	293.2	290.5	289.6	291.8	293.2	296.2	298.9	301.1
25°	279.1	276.0	272.9	271.2	269.9	269.9	270.7	271.2	272.5	273.8	276.5
27.5°	260.6	258.4	254.0	249.2	249.2	247.9	248.8	249.7	252.7	257.1	259.3
30°	240.0	239.5	237.8	236.0	234.3	233.4	235.1	236.5	236.9	239.1	239.1
32.5°	225.0	222.0	218.9	217.1	216.2	215.8	216.2	218.0	218.0	220.6	223.7
35°	210.1	208.3	205.3	202.2	201.3	199.1	200.9	202.6	205.7	207.0	208.3
37.5°	193.8	191.6	190.3	189.4	187.7	188.1	186.8	189.4	192.1	191.6	192.5
40°	181.5	177.6	173.6	173.2	172.7	172.3	172.3	172.7	174.5	176.2	178.9
42.5°	165.7	164.4	160.9	157.4	156.5	155.6	154.7	156.5	160.0	163.1	164.4
45°	149.4	147.7	146.8	144.2	142.4	142.0	141.1	143.3	146.4	147.7	148.6
47.5°	134.5	134.1	131.4	131.9	130.5	131.0	130.5	131.9	131.9	133.2	134.1
50°	124.4	123.1	121.7	120.9	119.6	119.6	119.1	119.6	121.3	123.1	122.6
52.5°	114.3	112.1	111.6	111.2	110.3	111.2	109.9	110.3	112.1	113.0	112.5
55°	102.4	102.0	101.1	100.2	99.8	99.3	99.3	99.3	101.1	102.4	102.8
57.5°	93.2	91.0	89.2	89.2	87.5	87.0	87.9	88.3	89.7	90.5	91.4
60°	80.4	79.6	76.9	75.6	73.0	72.5	72.5	74.3	76.5	79.6	80.4
62.5°	66.8	65.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.5	65.5
65°	59.3	59.8	59.3	58.9	59.3	59.3	58.9	58.9	58.9	59.3	59.8
67.5°	53.2	52.7	53.2	52.7	52.3	52.3	51.9	52.3	52.7	53.2	53.2
70°	46.2	46.2	45.7	46.2	45.7	45.3	44.8	44.8	45.7	46.2	46.2
72.5°	39.6	39.6	39.1	39.1	38.2	38.2	38.7	38.2	38.2	39.6	39.6
75°	33.0	32.5	32.1	32.1	31.6	31.6	31.6	31.2	32.1	32.1	32.5
77.5°	25.9	25.9	25.9	25.5	25.5	25.1	25.1	25.5	25.5	25.5	25.9
80°	19.8	19.8	19.8	19.3	18.9	18.9	18.9	18.9	18.9	19.3	18.9
82.5°	13.6	13.6	13.6	13.6	13.6	13.2	13.2	13.2	13.6	13.6	13.2
85°	8.4	7.9	8.4	8.4	7.9	8.4	7.9	7.9	7.5	7.5	7.9
87.5°	3.5	3.1	2.6	2.6	3.1	2.6	2.6	2.6	3.1	2.6	2.6
90°	17.4	17.6	17.9	18.2	18.5	18.8	18.5	18.2	17.9	17.6	17.4
92.5°	18.1	18.2	18.3	18.5	18.6	18.8	18.6	18.5	18.3	18.2	18.1
95°	30.6	30.5	30.4	30.2	30.1	29.9	30.1	30.2	30.4	30.5	30.6
97.5°	37.5	37.6	37.7	37.9	38.0	38.2	38.0	37.9	37.7	37.6	37.5
100°	45.2	45.3	45.6	45.9	46.2	46.5	46.2	45.9	45.6	45.3	45.2
102.5°	48.6	48.8	49.3	49.8	50.2	50.7	50.2	49.8	49.3	48.8	48.6
105°	50.0	50.3	50.9	51.6	52.2	52.8	52.2	51.6	50.9	50.3	50.0
107.5°	51.4	51.7	52.3	53.0	53.6	54.2	53.6	53.0	52.3	51.7	51.4
110°	52.1	52.4	53.0	53.7	54.3	54.9	54.3	53.7	53.0	52.4	52.1

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	53.5	53.7	54.2	54.7	55.1	55.6	55.1	54.7	54.2	53.7	53.5
115°	107.0	101.4	90.3	79.2	68.1	57.0	68.1	79.2	90.3	101.4	107.0
117.5°	366.8	346.6	306.1	265.7	225.2	184.8	225.2	265.7	306.1	346.6	366.8
120°	517.5	507.1	486.2	465.4	444.5	423.7	444.5	465.4	486.2	507.1	517.5
122.5°	554.3	554.4	554.5	554.7	554.8	555.0	554.8	554.7	554.5	554.4	554.3
125°	591.8	592.0	592.5	593.0	593.4	593.9	593.4	593.0	592.5	592.0	591.8
127.5°	627.9	628.0	628.1	628.3	628.4	628.6	628.4	628.3	628.1	628.0	627.9
130°	661.3	661.2	661.1	660.9	660.8	660.6	660.8	660.9	661.1	661.2	661.3
132.5°	692.5	692.4	692.3	692.1	692.0	691.8	692.0	692.1	692.3	692.4	692.5
135°	723.1	722.9	722.6	722.3	722.0	721.7	722.0	722.3	722.6	722.9	723.1
137.5°	751.6	751.4	750.9	750.4	750.0	749.5	750.0	750.4	750.9	751.4	751.6
140°	778.7	778.3	777.5	776.8	776.0	775.2	776.0	776.8	777.5	778.3	778.7
142.5°	803.7	803.3	802.5	801.8	801.0	800.2	801.0	801.8	802.5	803.3	803.7
145°	826.6	826.2	825.4	824.7	823.9	823.1	823.9	824.7	825.4	826.2	826.6
147.5°	846.8	846.5	845.9	845.2	844.6	844.0	844.6	845.2	845.9	846.5	846.8
150°	866.2	865.8	865.0	864.3	863.5	862.7	863.5	864.3	865.0	865.8	866.2
152.5°	883.6	883.1	882.0	880.9	879.8	878.7	879.8	880.9	882.0	883.1	883.6
155°	898.8	898.2	897.0	895.7	894.5	893.3	894.5	895.7	897.0	898.2	898.8
157.5°	912.7	912.1	910.9	909.6	908.4	907.2	908.4	909.6	910.9	912.1	912.7
160°	923.9	923.4	922.3	921.2	920.1	919.0	920.1	921.2	922.3	923.4	923.9
162.5°	935.0	934.3	932.9	931.5	930.1	928.7	930.1	931.5	932.9	934.3	935.0
165°	943.3	942.8	941.7	940.6	939.5	938.4	939.5	940.6	941.7	942.8	943.3
167.5°	950.9	950.2	948.8	947.5	946.1	944.7	946.1	947.5	948.8	950.2	950.9
170°	956.5	955.8	954.4	953.1	951.7	950.3	951.7	953.1	954.4	955.8	956.5
172.5°	960.7	960.0	958.6	957.2	955.8	954.4	955.8	957.2	958.6	960.0	960.7
175°	963.4	962.6	961.1	959.6	958.0	956.5	958.0	959.6	961.1	962.6	963.4
177.5°	964.1	963.4	962.0	960.7	959.3	957.9	959.3	960.7	962.0	963.4	964.1
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	602.6	604.8	603.9	599.1	603.9	605.2	607.9	610.5	612.3	614.9	617.1
5°	564.8	569.2	571.8	569.2	578.0	579.3	585.4	589.0	594.2	598.6	602.2
7.5°	529.2	532.7	538.0	538.9	544.1	550.3	559.1	567.9	576.2	580.6	584.6
10°	491.0	497.1	505.0	503.3	511.2	520.8	530.1	544.1	551.2	559.1	566.1
12.5°	452.7	456.7	467.2	470.7	482.2	489.6	502.4	511.2	528.7	538.0	544.1
15°	385.9	402.2	415.4	431.2	446.1	460.2	471.6	487.4	502.8	509.9	520.0
17.5°	355.6	363.0	371.0	378.9	398.2	423.3	443.5	460.6	473.8	483.0	494.9
20°	323.9	331.4	340.2	347.7	359.5	377.6	402.6	432.1	447.9	457.5	469.0
22.5°	301.5	308.5	314.3	320.9	330.1	343.3	362.2	398.6	419.7	431.6	441.7
25°	277.3	286.1	292.3	297.1	304.6	319.1	334.5	355.1	392.9	402.2	416.2
27.5°	260.6	263.3	270.3	277.8	285.3	293.2	309.0	326.6	352.1	372.3	389.4
30°	240.9	247.5	254.0	257.1	263.7	275.1	284.8	303.7	323.5	339.3	360.0
32.5°	225.9	229.9	234.3	241.7	247.9	255.8	265.5	281.3	298.0	308.1	323.9
35°	209.2	211.9	221.1	224.2	230.3	238.2	247.9	260.2	278.2	286.1	297.6
37.5°	193.4	199.5	202.2	209.2	214.9	222.8	229.9	243.9	255.8	265.0	275.6
40°	181.1	183.7	188.6	194.7	199.5	205.7	214.5	224.6	237.3	244.8	254.0
42.5°	166.1	168.3	174.5	178.0	185.9	191.6	196.9	209.2	220.6	226.4	235.6
45°	149.9	155.2	159.1	166.1	170.5	177.6	184.2	193.0	203.5	210.1	215.4
47.5°	135.8	141.1	145.0	151.6	158.7	161.7	168.8	178.0	187.7	193.0	200.4
50°	124.4	126.1	133.6	136.7	144.2	150.3	155.2	163.1	173.6	176.7	182.8
52.5°	113.4	114.7	119.6	123.5	130.1	135.4	141.5	149.0	157.8	162.6	167.5
55°	103.7	104.6	106.8	111.2	115.6	122.2	127.9	134.9	142.4	147.7	152.1
57.5°	92.7	94.5	96.3	98.9	103.3	109.4	115.6	122.2	128.3	131.9	137.6
60°	80.0	82.6	85.7	88.8	91.9	96.3	103.3	109.4	115.2	118.2	122.6
62.5°	66.4	71.6	74.3	77.8	80.4	84.4	89.7	96.7	100.7	104.6	108.1
65°	59.8	60.2	60.7	64.2	69.0	73.0	77.8	83.1	89.2	91.9	94.5
67.5°	53.2	53.6	54.5	54.9	56.7	61.1	66.4	72.1	76.9	78.7	81.3
70°	46.6	46.6	48.3	48.8	49.2	49.7	54.1	59.8	64.2	66.4	69.4
72.5°	39.6	40.0	40.9	41.3	42.2	43.1	44.4	47.5	52.7	54.9	58.5
75°	32.5	33.0	33.4	33.8	35.2	35.6	36.9	38.7	40.9	43.5	45.7
77.5°	25.9	25.9	26.4	27.3	28.1	28.6	29.9	30.8	31.6	33.0	34.7
80°	19.3	19.8	19.8	20.7	20.7	21.1	21.5	22.9	23.7	24.6	25.5
82.5°	13.2	14.1	14.1	14.1	14.5	14.9	15.4	15.4	16.3	16.7	18.0
85°	7.9	8.4	8.4	8.4	7.9	8.8	8.8	9.2	9.2	9.2	9.7
87.5°	3.1	2.6	3.1	3.1	3.1	3.5	3.1	3.1	3.5	4.0	4.0
90°	17.0	16.2	15.5	14.7	13.9	12.7	11.4	10.2	8.9	8.3	7.5
92.5°	17.9	17.6	17.3	17.0	16.7	16.2	15.8	15.3	14.8	14.6	14.9
95°	30.2	29.4	28.7	27.9	27.1	26.0	24.9	23.8	22.7	22.2	24.8
97.5°	37.3	36.8	36.3	35.9	35.4	32.9	30.5	28.0	25.5	24.3	30.6
100°	44.6	43.3	42.1	40.8	39.6	37.0	34.4	31.7	29.1	27.8	38.4
102.5°	47.8	46.1	44.4	42.7	41.0	69.1	97.2	125.3	153.4	167.4	167.6
105°	49.2	47.5	45.8	44.1	42.4	84.5	126.7	168.8	210.9	232.0	229.7
107.5°	50.6	48.9	47.2	45.5	43.8	95.8	147.8	199.9	251.9	277.9	276.0
110°	59.8	75.3	90.7	106.2	121.6	166.2	210.8	255.4	300.0	322.3	320.7

TEST NUMBER: P999594

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	86.8	153.3	219.8	286.4	352.9	355.5	358.1	360.8	363.4	364.7	363.3
115°	142.7	214.2	285.7	357.1	428.6	424.7	420.9	417.0	413.1	411.2	409.9
117.5°	377.8	399.9	422.0	444.0	466.1	463.5	460.9	458.2	455.6	454.3	452.8
120°	516.6	514.7	512.9	511.0	509.2	506.4	503.6	500.9	498.1	496.7	495.5
122.5°	553.8	552.9	552.0	551.0	550.1	547.0	544.0	540.9	537.8	536.3	535.1
125°	591.3	590.2	589.1	588.1	587.0	584.1	581.1	578.2	575.3	573.8	572.8
127.5°	627.1	625.6	624.1	622.5	621.0	618.7	616.4	614.1	611.8	610.6	609.5
130°	660.4	658.7	657.0	655.3	653.6	651.9	650.2	648.5	646.8	646.0	644.8
132.5°	691.8	690.4	689.1	687.7	686.3	684.6	682.9	681.2	679.5	678.7	677.7
135°	722.3	720.8	719.3	717.7	716.2	714.8	713.4	712.0	710.6	709.9	708.7
137.5°	750.8	749.3	747.7	746.2	744.6	743.1	741.5	740.0	738.5	737.7	736.8
140°	778.0	776.6	775.2	773.8	772.4	770.7	769.0	767.3	765.6	764.8	764.2
142.5°	803.1	801.8	800.6	799.3	798.1	796.1	794.1	792.1	790.1	789.1	788.6
145°	826.1	825.0	823.9	822.8	821.7	819.1	816.5	813.8	811.2	809.9	810.0
147.5°	846.4	845.6	844.9	844.1	843.3	840.7	838.1	835.4	832.8	831.5	831.7
150°	865.7	864.8	863.9	862.9	862.0	859.5	857.1	854.6	852.1	850.9	851.4
152.5°	883.1	882.2	881.3	880.3	879.4	877.1	874.8	872.5	870.2	869.0	869.6
155°	898.3	897.4	896.5	895.6	894.7	892.8	891.0	889.1	887.2	886.3	887.0
157.5°	912.2	911.1	910.0	909.0	907.9	906.5	905.1	903.7	902.3	901.6	902.2
160°	923.4	922.5	921.6	920.6	919.7	918.8	917.8	916.9	916.0	915.5	916.0
162.5°	934.5	933.4	932.3	931.2	930.1	929.3	928.5	927.8	927.0	926.6	927.1
165°	942.8	941.7	940.6	939.5	938.4	938.0	937.5	937.1	936.6	936.4	936.9
167.5°	950.4	949.3	948.2	947.2	946.1	945.6	945.2	944.7	944.2	944.0	944.5
170°	956.0	954.9	953.8	952.7	951.6	951.3	951.0	950.7	950.4	950.3	950.8
172.5°	960.2	959.1	958.0	956.9	955.8	955.5	955.2	954.9	954.6	954.4	954.9
175°	962.9	961.8	960.7	959.7	958.6	958.3	958.0	957.7	957.4	957.2	957.7
177.5°	963.6	962.5	961.4	960.4	959.3	959.1	959.0	958.8	958.7	958.6	959.1
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	632.5	632.5	632.5	632.5
2.5°	621.1	619.7	627.6	636.4
5°	608.3	610.5	620.6	632.9
7.5°	595.1	600.0	611.8	628.1
10°	576.7	585.4	603.5	620.2
12.5°	558.6	570.5	587.6	607.4
15°	538.4	551.6	572.7	596.4
17.5°	516.0	530.9	555.6	581.5
20°	492.3	512.0	538.0	566.1
22.5°	465.9	489.6	516.4	547.6
25°	440.4	466.3	493.1	529.2
27.5°	415.4	440.8	470.7	507.2
30°	390.3	413.6	445.7	484.8
32.5°	363.5	387.7	421.5	461.5
35°	338.9	363.0	394.7	434.3
37.5°	312.5	338.4	368.8	409.6
40°	281.7	312.1	341.5	380.6
42.5°	256.2	288.3	316.9	353.8
45°	236.0	266.4	290.1	326.1
47.5°	217.1	241.7	265.9	299.3
50°	199.1	218.0	243.1	272.9
52.5°	180.6	196.9	218.4	246.6
55°	163.9	179.3	198.7	220.2
57.5°	148.6	159.5	178.9	198.2
60°	131.4	142.8	157.8	174.1
62.5°	116.9	125.7	139.8	153.4
65°	101.5	109.9	120.4	133.2
67.5°	87.5	94.9	103.3	113.4
70°	74.7	80.4	86.6	95.4
72.5°	61.1	67.2	73.0	80.0
75°	50.1	52.7	57.6	62.4
77.5°	38.7	42.2	44.8	48.8
80°	27.7	30.8	31.6	34.7
82.5°	18.5	20.2	22.0	22.9
85°	10.5	11.4	13.2	13.6
87.5°	4.0	4.4	5.3	6.2
90°	5.8	4.1	2.4	0.7
92.5°	15.5	16.2	16.8	17.4
95°	29.9	35.0	40.1	45.2
97.5°	43.3	56.0	68.6	81.3
100°	59.5	80.6	101.8	122.9
102.5°	167.9	168.2	168.5	168.8
105°	225.1	220.4	215.8	211.2
107.5°	272.1	268.2	264.4	260.5
110°	317.4	314.2	310.9	307.7



TEST NUMBER: P999594

CATALOG NUMBER: SA2XXRDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	360.5	357.8	355.0	352.2
115°	407.3	404.6	402.0	399.4
117.5°	449.7	446.6	443.5	440.4
120°	493.2	490.9	488.5	486.2
122.5°	532.6	530.1	527.6	525.1
125°	570.8	568.7	566.7	564.7
127.5°	607.4	605.2	603.1	600.9
130°	642.3	639.8	637.4	634.9
132.5°	675.7	673.6	671.6	669.6
135°	706.2	703.7	701.3	698.8
137.5°	734.9	733.1	731.2	729.4
140°	762.9	761.7	760.4	759.2
142.5°	787.5	786.4	785.3	784.2
145°	810.1	810.3	810.4	810.6
147.5°	832.2	832.7	833.1	833.6
150°	852.5	853.6	854.7	855.8
152.5°	870.8	872.1	873.3	874.5
155°	888.4	889.8	891.2	892.6
157.5°	903.5	904.7	906.0	907.2
160°	916.9	917.8	918.8	919.7
162.5°	928.0	928.9	929.9	930.8
165°	937.8	938.7	939.6	940.5
167.5°	945.4	946.3	947.3	948.2
170°	951.7	952.6	953.5	954.4
172.5°	955.8	956.7	957.7	958.6
175°	958.8	959.9	961.0	962.1
177.5°	960.2	961.3	962.3	963.4
180°	960.0	960.0	960.0	960.0

(END OF REPORT)