

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: P1010902

Luminaire Tested: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010902
REPORT IS A COMBINATION OF REPORTS P993248 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

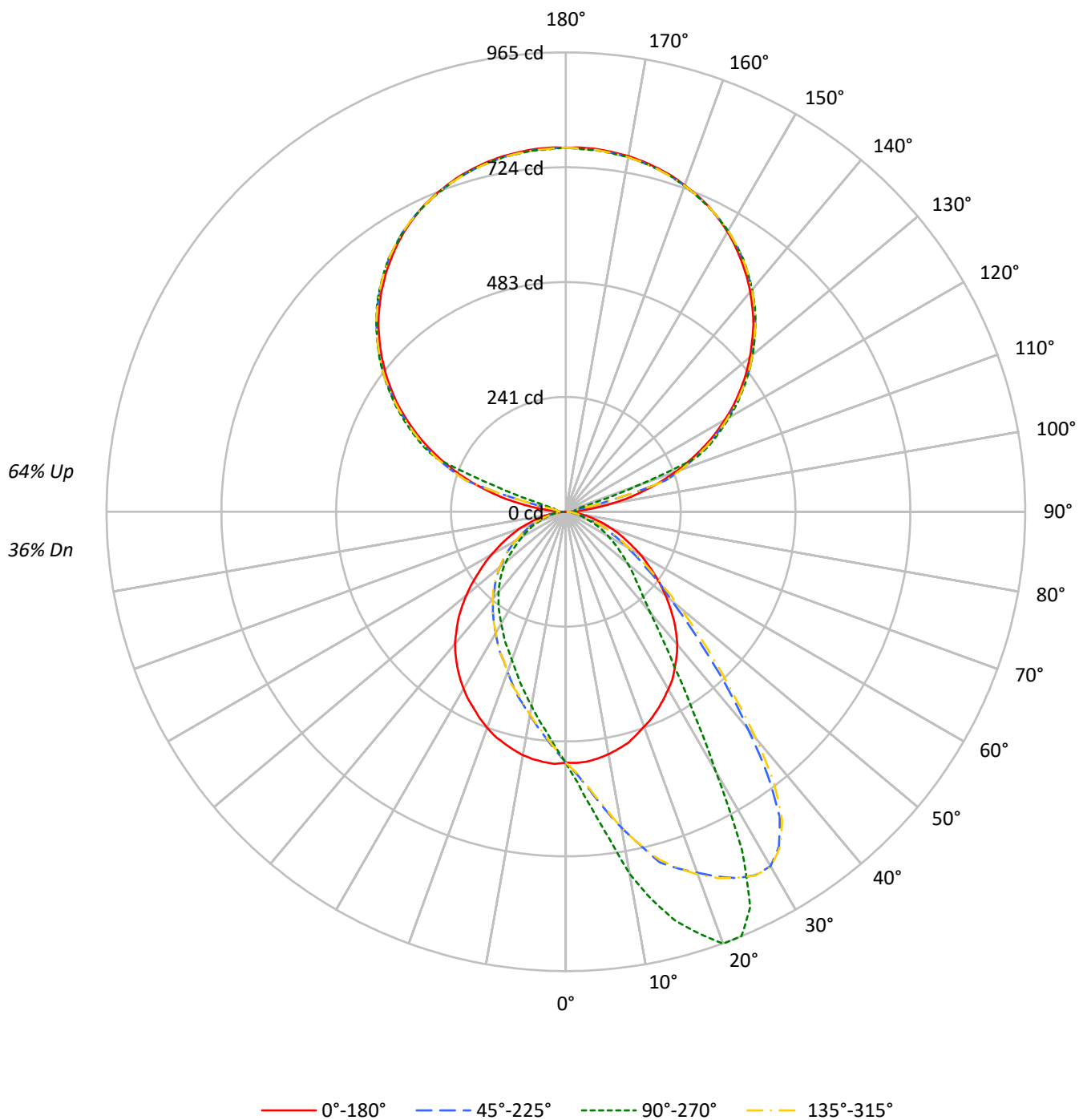
Lumens per Lamp: N/A
Luminaire Lumens: 3645.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43			36
1	95	91	87	84	86	83	80	77	67	65	63	52	51	50	39	38	37			31
2	87	80	74	69	78	73	68	64	59	56	53	46	44	42	35	33	32			27
3	79	71	64	58	72	64	58	54	52	48	45	41	38	36	31	29	28			23
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	24			20
5	67	56	48	43	60	51	44	39	42	37	33	33	30	27	25	23	21			18
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	23	21	19			16
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17			14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15			13
9	49	38	30	26	45	35	28	24	29	24	20	23	20	17	18	16	14			12
10	46	34	27	23	42	32	26	21	26	22	18	21	18	16	17	14	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5672	5672	5672	5672
5°	5675	6532	5690	4846
10°	5626	7885	5650	4233
15°	5568	8949	5568	3732
20°	5453	9653	5484	3311
25°	5370	9171	5359	3021
30°	5273	6354	5262	2737
35°	5155	4079	5132	2524
40°	5010	2880	4985	2311
45°	4757	2305	4749	2104
50°	4446	1929	4431	1862
55°	4095	1590	4062	1579
60°	3751	1314	3714	1343
65°	3348	1052	3370	1138
70°	2974	730	3057	921
75°	2522	542	2625	707
80°	2009	358	2177	531
85°	1431	171	1556	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 7571 cd/sqm

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.4
10°-20°	162.0	4.4
20°-30°	255.1	7.0
30°-40°	265.3	7.3
40°-50°	226.9	6.2
50°-60°	173.0	4.7
60°-70°	110.9	3.0
70°-80°	53.1	1.5
80°-90°	15.5	0.4
90°-100°	27.0	0.7
100°-110°	130.4	3.6
110°-120°	319.5	8.8
120°-130°	405.6	11.1
130°-140°	433.3	11.9
140°-150°	405.2	11.1
150°-160°	326.8	9.0
160°-170°	210.9	5.8
170°-180°	72.7	2.0
0°-30°	468.8	12.9
0°-40°	734.1	20.1
0°-60°	1134.1	31.1
0°-90°	1313.5	36.0
90°-120°	476.9	13.1
90°-150°	1721.0	47.2
90°-180°	2331.0	64.0
0°-180°	3645.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	526	626	528	464	526	50
15°	503	889	503	371	503	141
25°	457	916	456	302	457	211
35°	399	397	397	246	399	250
45°	320	212	320	194	320	247
55°	226	133	224	132	226	203
65°	138	77	139	83	138	138
75°	66	32	69	42	66	72
85°	15	8	16	15	15	17
90°	1	17	1	17	1	3
95°	35	22	35	22	35	41
105°	169	25	169	25	169	180
115°	318	334	318	334	318	314
125°	448	457	448	457	448	400
135°	557	563	557	563	557	429
145°	643	649	643	649	643	403
155°	708	707	708	707	708	326
165°	747	746	747	746	747	211
175°	765	762	765	762	765	73
180°	765	765	765	765	765	

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	528.2	531.9	534.6	536.4	540.9	543.6	545.8	549.9	549.9	550.8	552.6
5°	526.4	534.1	539.5	546.7	556.2	560.7	567.0	572.5	580.1	584.2	588.2
7.5°	522.4	533.2	544.5	555.3	569.3	578.3	584.6	598.6	608.5	620.7	630.2
10°	517.0	531.9	546.3	563.0	581.9	595.5	604.9	623.4	642.4	659.5	674.0
12.5°	510.2	528.2	549.0	569.3	595.9	609.4	624.8	647.8	674.9	696.5	715.9
15°	503.0	523.7	547.2	572.0	605.4	624.3	646.4	674.4	704.6	735.8	762.4
17.5°	491.7	517.9	544.0	580.1	619.4	630.7	649.6	687.9	725.4	753.4	785.8
20°	480.4	509.8	542.7	575.2	617.6	643.7	661.3	701.9	742.1	775.9	807.0
22.5°	470.1	500.7	535.0	576.1	615.8	641.9	664.0	706.4	752.9	790.8	829.1
25°	457.4	490.8	528.7	567.5	615.8	635.6	660.0	709.1	758.3	802.1	849.4
27.5°	443.9	477.7	515.2	554.9	599.1	628.4	652.3	705.1	765.1	812.0	860.7
30°	430.4	465.1	501.2	536.8	586.4	614.4	641.9	700.1	768.7	822.4	859.8
32.5°	417.3	446.6	482.2	517.0	566.1	596.8	627.9	695.2	770.0	815.2	833.2
35°	399.2	429.9	458.8	495.8	545.4	575.6	612.2	694.7	764.2	792.1	783.1
37.5°	382.5	408.3	435.8	468.7	519.7	558.9	596.8	683.0	744.8	746.6	695.6
40°	364.0	385.2	408.3	443.0	498.0	536.8	577.9	664.9	709.6	683.0	593.2
42.5°	342.8	361.8	379.8	413.7	473.7	517.0	561.2	642.4	658.6	597.3	503.9
45°	320.3	335.6	352.3	388.0	448.0	490.8	535.0	607.6	591.0	504.3	415.5
47.5°	296.8	309.9	326.2	358.6	420.4	464.2	506.1	558.0	515.6	422.7	348.3
50°	273.4	283.7	299.5	332.9	392.5	432.2	471.0	504.8	445.2	362.7	287.8
52.5°	250.4	258.5	274.7	303.1	360.9	398.8	426.7	439.8	379.4	299.5	249.9
55°	226.0	235.0	245.9	274.7	332.0	360.0	378.5	378.0	315.8	254.0	206.6
57.5°	202.5	210.7	220.1	249.0	295.5	314.4	330.2	322.5	263.4	208.0	177.3
60°	181.8	186.3	196.7	221.0	256.2	272.5	281.5	268.4	215.2	175.5	146.6
62.5°	159.2	163.8	172.3	195.3	217.0	225.6	233.2	216.5	177.7	143.0	125.4
65°	138.5	144.4	149.8	168.3	180.0	190.4	189.5	175.5	138.9	116.4	102.0
67.5°	120.4	122.7	127.2	138.5	143.9	151.6	152.0	136.2	111.9	94.7	86.2
70°	101.0	103.3	106.5	111.9	115.5	117.3	116.4	102.4	84.4	74.0	66.3
72.5°	84.4	83.9	86.2	86.2	89.8	89.3	86.6	75.8	64.1	55.5	51.0
75°	66.3	66.8	67.2	66.3	65.0	63.2	60.9	52.8	45.1	41.1	37.0
77.5°	51.9	51.0	51.4	48.3	46.5	44.7	41.5	37.4	31.1	30.2	28.4
80°	37.0	36.5	36.1	34.7	30.7	28.9	26.6	24.4	23.0	22.1	21.7
82.5°	24.8	24.8	23.9	21.2	18.9	17.6	17.1	16.2	14.9	14.9	14.4
85°	14.9	14.4	13.5	10.8	9.5	9.5	9.5	9.5	8.6	8.6	8.1
87.5°	5.9	5.4	4.1	4.1	3.6	3.6	3.6	3.2	3.2	2.7	2.7
90°	0.6	1.8	3.1	4.3	5.6	6.2	7.0	8.7	10.3	12.0	13.6
92.5°	13.1	12.3	11.6	10.8	10.1	9.7	10.3	11.4	12.5	13.7	14.8
95°	34.7	29.5	24.3	19.2	14.0	11.4	12.1	13.5	14.8	16.2	17.6
97.5°	63.1	59.6	56.0	52.5	49.0	47.2	44.0	37.5	31.1	24.6	18.2
100°	96.0	98.5	101.1	103.6	106.1	107.4	97.5	77.8	58.1	38.4	18.7
102.5°	133.5	135.1	136.8	138.4	140.1	140.9	129.9	107.9	86.0	64.0	42.0
105°	169.3	170.7	172.1	173.5	174.9	175.6	169.9	158.5	147.2	135.8	124.4
107.5°	207.4	208.5	209.7	210.8	211.9	212.5	213.4	215.3	217.2	219.1	221.0
110°	245.5	246.5	247.5	248.5	249.5	250.0	250.7	252.1	253.4	254.8	256.2

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.8	282.7	283.6	284.5	285.4	285.8	286.5	287.9	289.2	290.6	292.0
115°	317.6	318.4	319.1	319.9	320.6	321.0	321.6	322.7	323.8	325.0	326.1
117.5°	352.8	353.7	354.6	355.5	356.4	356.8	357.1	357.8	358.4	359.1	359.7
120°	385.2	386.3	387.5	388.6	389.7	390.3	390.5	390.9	391.2	391.6	392.0
122.5°	418.2	419.1	420.0	420.9	421.8	422.2	422.4	422.9	423.4	423.9	424.4
125°	447.7	448.7	449.7	450.8	451.8	452.3	452.5	453.0	453.5	454.0	454.5
127.5°	477.3	478.3	479.3	480.3	481.3	481.8	482.1	482.8	483.4	484.1	484.7
130°	504.5	505.5	506.5	507.6	508.6	509.1	509.4	509.9	510.4	510.9	511.4
132.5°	530.7	531.7	532.7	533.7	534.7	535.2	535.4	535.8	536.1	536.5	536.9
135°	557.4	558.2	558.9	559.7	560.4	560.8	561.1	561.6	562.1	562.6	563.1
137.5°	580.1	581.1	582.1	583.2	584.2	584.7	584.8	585.1	585.3	585.6	585.8
140°	602.8	603.6	604.3	605.1	605.8	606.2	606.4	606.8	607.2	607.6	608.0
142.5°	623.9	624.7	625.4	626.2	626.9	627.3	627.5	627.9	628.2	628.6	629.0
145°	643.2	644.1	645.0	645.9	646.8	647.2	647.3	647.6	647.8	648.1	648.3
147.5°	661.9	662.5	663.2	663.8	664.5	664.8	664.9	665.2	665.4	665.7	665.9
150°	679.0	679.4	679.8	680.1	680.5	680.7	680.8	681.1	681.3	681.6	681.8
152.5°	694.3	694.4	694.6	694.7	694.8	694.9	695.0	695.1	695.2	695.4	695.5
155°	708.5	708.3	708.0	707.8	707.5	707.4	707.5	707.6	707.7	707.9	708.0
157.5°	719.9	719.9	719.9	719.9	719.9	719.9	719.8	719.7	719.6	719.4	719.3
160°	730.1	730.0	729.8	729.7	729.6	729.5	729.4	729.3	729.2	729.1	729.0
162.5°	739.8	739.4	739.0	738.7	738.3	738.1	738.0	737.9	737.8	737.6	737.5
165°	747.2	746.8	746.4	746.1	745.7	745.5	745.4	745.3	745.2	745.0	744.9
167.5°	753.4	752.9	752.4	751.9	751.4	751.1	751.1	751.1	751.1	751.1	751.1
170°	758.5	758.0	757.5	757.0	756.5	756.2	756.2	756.2	756.2	756.2	756.2
172.5°	761.9	761.3	760.7	760.0	759.4	759.1	759.2	759.3	759.4	759.6	759.7
175°	764.8	764.2	763.5	762.9	762.2	761.9	762.0	762.1	762.2	762.4	762.5
177.5°	765.9	765.3	764.7	764.0	763.4	763.1	763.2	763.3	763.4	763.5	763.6
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	556.2	556.2	560.3	564.3	562.1	563.4	568.4	566.6	570.2	569.8	571.1
5°	598.2	603.1	607.2	615.8	617.1	615.8	624.3	626.6	630.7	625.7	627.9
7.5°	645.5	655.9	665.8	678.5	682.5	683.4	687.9	694.3	699.7	689.7	694.7
10°	691.6	707.3	727.6	738.9	748.8	752.5	756.1	760.1	766.4	772.3	767.8
12.5°	741.2	764.2	783.6	803.9	816.1	814.7	825.1	827.8	832.7	834.1	835.9
15°	781.8	814.3	826.4	856.7	859.4	868.4	880.1	890.5	891.8	889.1	889.1
17.5°	820.6	848.5	870.2	894.6	899.5	907.2	922.1	927.0	928.8	928.4	928.4
20°	852.1	870.6	907.2	927.5	935.6	945.5	955.9	962.2	963.6	965.4	962.7
22.5°	872.9	900.9	930.6	947.3	954.1	957.7	964.5	966.3	964.0	964.5	964.9
25°	889.1	916.7	934.7	939.2	938.8	934.2	929.3	920.7	919.8	916.2	909.0
27.5°	893.6	904.0	901.8	883.3	864.8	863.0	833.2	817.0	798.5	801.2	790.8
30°	869.3	855.8	823.7	776.8	757.4	725.8	692.5	657.7	644.2	629.3	656.8
32.5°	809.7	761.5	704.6	643.7	611.3	583.3	547.6	522.4	507.9	495.8	519.2
35°	720.0	644.6	569.3	511.6	484.9	459.7	426.3	413.7	395.6	397.4	399.7
37.5°	604.5	521.5	464.6	407.8	390.2	379.8	355.5	336.1	329.8	328.0	328.0
40°	496.2	428.1	377.6	332.9	319.4	310.8	291.4	282.4	275.6	273.8	276.1
42.5°	410.5	352.3	313.1	283.3	273.8	263.0	254.9	243.6	242.2	239.1	243.1
45°	344.6	294.1	264.8	243.1	235.0	231.0	221.9	215.2	212.5	212.0	215.2
47.5°	292.3	253.1	227.4	213.8	207.5	203.5	195.8	193.1	190.4	191.3	189.9
50°	245.4	216.1	199.4	187.2	183.2	179.1	174.1	171.4	170.1	170.1	169.6
52.5°	210.7	186.3	175.5	164.2	162.4	160.1	154.7	152.9	150.7	150.2	152.0
55°	180.4	163.8	152.9	146.2	144.4	139.8	137.6	135.3	134.0	133.1	133.5
57.5°	154.3	141.6	134.4	128.6	125.4	123.6	119.5	119.1	118.2	118.2	117.7
60°	132.6	123.6	115.0	111.4	109.2	106.9	106.5	103.8	102.4	103.3	102.9
62.5°	112.3	105.1	100.1	96.1	94.7	92.9	91.6	90.7	89.3	89.8	89.8
65°	93.8	88.0	84.4	80.7	80.3	78.5	78.0	77.1	77.1	76.7	77.6
67.5°	77.1	73.1	69.9	67.7	66.3	66.8	65.0	63.6	63.6	63.2	64.5
70°	61.4	59.1	55.9	53.2	51.4	51.4	49.2	48.7	48.7	48.7	48.3
72.5°	47.4	43.3	42.0	41.1	41.1	41.1	40.1	40.1	39.7	40.1	39.7
75°	35.2	34.7	33.8	33.4	33.4	32.9	32.5	32.5	32.5	32.5	32.5
77.5°	27.5	27.5	26.6	26.2	26.2	26.2	25.7	25.7	25.3	25.3	25.3
80°	20.3	20.3	19.4	19.4	19.4	18.9	18.9	18.9	19.4	18.9	18.9
82.5°	14.0	14.0	13.5	14.0	13.5	13.1	13.1	13.1	12.6	13.1	13.1
85°	8.1	8.1	7.7	7.2	7.7	7.7	7.2	7.7	7.2	7.7	7.2
87.5°	3.2	2.7	2.7	2.7	2.3	2.7	2.3	2.3	2.7	2.3	2.7
90°	14.1	14.6	15.1	15.6	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	15.7	16.5	17.4	18.3	18.7	18.8	18.9	19.0	19.2	19.3	19.2
95°	18.5	19.4	20.3	21.2	21.6	21.6	21.6	21.6	21.6	21.6	21.6
97.5°	19.2	20.2	21.2	22.2	22.7	22.8	22.9	23.0	23.2	23.3	23.2
100°	19.7	20.7	21.8	22.8	23.3	23.4	23.5	23.6	23.8	23.9	23.8
102.5°	37.8	33.7	29.5	25.4	23.3	23.4	23.7	23.9	24.2	24.4	24.2
105°	102.1	79.7	57.4	35.1	23.9	24.0	24.3	24.5	24.8	25.0	24.8
107.5°	201.6	182.1	162.7	143.2	133.5	125.2	108.7	92.2	75.6	59.1	75.6
110°	252.0	247.9	243.7	239.6	237.5	228.5	210.4	192.3	174.3	156.2	174.3



TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	293.2	294.3	295.5	296.6	297.2	297.1	296.8	296.5	296.3	296.0	296.3
115°	327.4	328.6	329.9	331.2	331.8	332.1	332.6	333.1	333.6	334.1	333.6
117.5°	360.7	361.7	362.7	363.7	364.2	364.3	364.4	364.5	364.7	364.8	364.7
120°	393.0	394.0	395.1	396.1	396.6	396.6	396.6	396.6	396.6	396.6	396.6
122.5°	425.0	425.7	426.3	427.0	427.3	427.4	427.5	427.6	427.7	427.8	427.7
125°	454.8	455.0	455.3	455.6	455.7	455.8	456.1	456.3	456.6	456.8	456.6
127.5°	485.1	485.5	485.8	486.2	486.4	486.3	486.0	485.7	485.5	485.2	485.5
130°	511.9	512.4	512.9	513.4	513.6	513.5	513.2	513.0	512.7	512.5	512.7
132.5°	537.4	537.9	538.4	538.9	539.2	539.0	538.6	538.3	537.9	537.5	537.9
135°	563.5	563.9	564.2	564.6	564.8	564.6	564.2	563.9	563.5	563.1	563.5
137.5°	586.4	587.0	587.7	588.3	588.6	588.5	588.2	588.0	587.7	587.5	587.7
140°	608.5	609.0	609.5	610.0	610.2	610.1	609.8	609.6	609.3	609.1	609.3
142.5°	629.4	629.8	630.1	630.5	630.7	630.5	630.1	629.8	629.4	629.0	629.4
145°	648.5	648.8	649.0	649.3	649.4	649.4	649.4	649.4	649.4	649.4	649.4
147.5°	666.1	666.4	666.6	666.9	667.0	666.7	666.1	665.4	664.8	664.2	664.8
150°	682.1	682.3	682.6	682.9	683.0	682.8	682.4	682.0	681.6	681.2	681.6
152.5°	696.0	696.5	697.0	697.5	697.7	697.4	696.8	696.1	695.5	694.9	695.5
155°	708.6	709.2	709.9	710.5	710.8	710.4	709.7	708.9	708.2	707.4	708.2
157.5°	720.1	720.8	721.6	722.3	722.7	722.2	721.2	720.2	719.2	718.2	719.2
160°	729.8	730.5	731.3	732.0	732.4	732.0	731.1	730.2	729.3	728.4	729.3
162.5°	738.4	739.3	740.2	741.1	741.5	741.1	740.4	739.6	738.9	738.1	738.9
165°	745.9	746.9	747.9	748.9	749.4	749.0	748.1	747.2	746.4	745.5	746.4
167.5°	752.1	753.1	754.2	755.2	755.7	755.2	754.2	753.1	752.1	751.1	752.1
170°	757.2	758.2	759.3	760.3	760.8	760.3	759.3	758.2	757.2	756.2	757.2
172.5°	760.7	761.7	762.7	763.7	764.2	763.6	762.5	761.4	760.2	759.1	760.2
175°	763.4	764.3	765.2	766.1	766.5	766.0	765.0	763.9	762.9	761.9	762.9
177.5°	764.6	765.6	766.7	767.7	768.2	767.6	766.3	765.0	763.8	762.5	763.8
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	568.8	566.1	564.3	563.0	561.6	565.7	560.3	554.4	550.4	547.6	546.7
5°	628.4	622.5	617.6	613.5	614.4	614.4	604.9	594.6	585.5	580.6	575.2
7.5°	697.4	691.1	681.2	678.9	677.1	665.8	656.4	637.4	626.1	614.9	604.9
10°	766.0	757.9	748.4	745.2	740.7	726.7	712.3	687.9	674.0	653.2	640.1
12.5°	830.0	820.1	810.6	808.4	801.6	789.4	764.6	739.4	715.5	693.4	670.3
15°	883.7	881.0	866.6	857.6	842.7	826.0	820.6	786.3	756.1	733.1	691.6
17.5°	928.8	916.2	902.7	896.8	890.9	871.5	852.1	817.0	784.5	750.6	724.0
20°	964.9	950.9	941.5	932.9	930.2	908.1	877.4	846.3	810.6	772.8	738.0
22.5°	966.7	964.9	958.6	953.6	948.2	933.8	909.4	870.6	832.7	791.2	745.7
25°	929.3	926.6	944.6	940.1	943.7	938.3	925.2	892.7	848.5	799.8	753.8
27.5°	816.5	844.0	872.4	882.4	889.1	908.5	914.9	896.8	861.2	809.3	757.9
30°	663.1	699.7	745.7	770.5	789.4	825.5	872.4	878.3	861.6	820.1	757.0
32.5°	520.6	554.0	591.0	620.3	645.5	719.5	782.7	828.2	836.4	814.7	759.2
35°	419.5	434.0	469.2	497.1	531.4	594.6	669.0	742.5	792.1	794.9	752.5
37.5°	346.0	353.7	384.3	400.1	420.4	475.9	545.4	641.5	718.6	755.2	733.5
40°	286.5	304.0	321.6	330.7	345.1	383.4	450.2	525.5	621.2	688.8	704.2
42.5°	248.6	256.2	267.5	280.1	289.2	322.5	367.2	436.2	522.4	616.7	659.1
45°	219.2	221.9	233.7	241.8	251.3	274.7	306.3	364.0	439.8	532.8	604.9
47.5°	194.9	200.3	206.6	211.6	217.9	235.9	263.0	305.0	371.7	454.7	532.3
50°	173.2	176.4	184.5	186.8	191.3	203.9	224.7	256.7	311.7	378.0	458.3
52.5°	152.9	158.8	161.9	165.1	169.2	179.5	193.1	219.2	260.7	323.0	391.1
55°	137.1	138.9	143.5	146.2	149.3	156.5	168.3	187.7	220.1	269.8	334.3
57.5°	121.8	121.8	126.3	128.6	131.7	137.1	147.5	162.4	185.9	222.8	281.9
60°	105.6	106.0	109.6	112.3	113.2	118.6	127.2	138.9	157.0	184.1	232.3
62.5°	91.1	93.4	95.2	96.1	99.2	102.4	109.6	117.7	130.4	154.3	188.6
65°	78.9	79.4	80.7	81.7	83.0	86.6	92.0	97.4	108.3	125.9	153.8
67.5°	65.0	66.8	68.6	68.6	69.9	71.7	77.1	81.7	89.8	100.1	119.1
70°	48.7	49.6	52.3	53.7	55.5	58.6	61.4	64.1	70.4	78.0	92.5
72.5°	40.6	40.6	41.5	42.0	42.0	44.2	48.3	51.0	54.1	59.5	69.5
75°	32.5	32.5	33.8	33.4	34.3	35.2	35.6	37.4	39.2	43.3	49.2
77.5°	25.7	26.2	26.2	26.6	26.6	27.1	27.5	28.4	29.3	31.6	34.3
80°	18.9	19.4	19.4	19.8	19.8	20.3	20.8	21.2	22.1	23.0	24.4
82.5°	13.1	13.5	13.5	14.0	13.5	14.0	14.4	14.4	14.9	15.8	16.2
85°	7.7	7.7	8.1	7.7	7.7	7.7	8.1	8.1	8.6	9.9	9.9
87.5°	2.3	2.7	2.3	2.7	2.7	2.7	2.7	3.2	3.2	3.6	4.1
90°	16.5	16.3	16.0	15.9	15.6	15.1	14.6	14.1	13.6	12.0	10.3
92.5°	19.0	18.9	18.8	18.7	18.3	17.4	16.5	15.7	14.8	13.7	12.5
95°	21.6	21.6	21.6	21.6	21.2	20.3	19.4	18.5	17.6	16.2	14.8
97.5°	23.0	22.9	22.8	22.7	22.2	21.2	20.2	19.2	18.2	24.6	31.1
100°	23.6	23.5	23.4	23.3	22.8	21.8	20.7	19.7	18.7	38.4	58.1
102.5°	23.9	23.7	23.4	23.3	25.4	29.5	33.7	37.8	42.0	64.0	86.0
105°	24.5	24.3	24.0	23.9	35.1	57.4	79.7	102.1	124.4	135.8	147.2
107.5°	92.2	108.7	125.2	133.5	143.2	162.7	182.1	201.6	221.0	219.1	217.2
110°	192.3	210.4	228.5	237.5	239.6	243.7	247.9	252.0	256.2	254.8	253.4

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	296.5	296.8	297.1	297.2	296.6	295.5	294.3	293.2	292.0	290.6	289.2
115°	333.1	332.6	332.1	331.8	331.2	329.9	328.6	327.4	326.1	325.0	323.8
117.5°	364.5	364.4	364.3	364.2	363.7	362.7	361.7	360.7	359.7	359.1	358.4
120°	396.6	396.6	396.6	396.6	396.1	395.1	394.0	393.0	392.0	391.6	391.2
122.5°	427.6	427.5	427.4	427.3	427.0	426.3	425.7	425.0	424.4	423.9	423.4
125°	456.3	456.1	455.8	455.7	455.6	455.3	455.0	454.8	454.5	454.0	453.5
127.5°	485.7	486.0	486.3	486.4	486.2	485.8	485.5	485.1	484.7	484.1	483.4
130°	513.0	513.2	513.5	513.6	513.4	512.9	512.4	511.9	511.4	510.9	510.4
132.5°	538.3	538.6	539.0	539.2	538.9	538.4	537.9	537.4	536.9	536.5	536.1
135°	563.9	564.2	564.6	564.8	564.6	564.2	563.9	563.5	563.1	562.6	562.1
137.5°	588.0	588.2	588.5	588.6	588.3	587.7	587.0	586.4	585.8	585.6	585.3
140°	609.6	609.8	610.1	610.2	610.0	609.5	609.0	608.5	608.0	607.6	607.2
142.5°	629.8	630.1	630.5	630.7	630.5	630.1	629.8	629.4	629.0	628.6	628.2
145°	649.4	649.4	649.4	649.4	649.3	649.0	648.8	648.5	648.3	648.1	647.8
147.5°	665.4	666.1	666.7	667.0	666.9	666.6	666.4	666.1	665.9	665.7	665.4
150°	682.0	682.4	682.8	683.0	682.9	682.6	682.3	682.1	681.8	681.6	681.3
152.5°	696.1	696.8	697.4	697.7	697.5	697.0	696.5	696.0	695.5	695.4	695.2
155°	708.9	709.7	710.4	710.8	710.5	709.9	709.2	708.6	708.0	707.9	707.7
157.5°	720.2	721.2	722.2	722.7	722.3	721.6	720.8	720.1	719.3	719.4	719.6
160°	730.2	731.1	732.0	732.4	732.0	731.3	730.5	729.8	729.0	729.1	729.2
162.5°	739.6	740.4	741.1	741.5	741.1	740.2	739.3	738.4	737.5	737.6	737.8
165°	747.2	748.1	749.0	749.4	748.9	747.9	746.9	745.9	744.9	745.0	745.2
167.5°	753.1	754.2	755.2	755.7	755.2	754.2	753.1	752.1	751.1	751.1	751.1
170°	758.2	759.3	760.3	760.8	760.3	759.3	758.2	757.2	756.2	756.2	756.2
172.5°	761.4	762.5	763.6	764.2	763.7	762.7	761.7	760.7	759.7	759.6	759.4
175°	763.9	765.0	766.0	766.5	766.1	765.2	764.3	763.4	762.5	762.4	762.2
177.5°	765.0	766.3	767.6	768.2	767.7	766.7	765.6	764.6	763.6	763.5	763.4
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	545.4	543.1	540.9	540.9	535.9	531.4	529.2	530.1	527.3	523.7	520.1
5°	569.3	560.3	558.5	553.5	546.7	537.3	532.3	527.8	522.4	515.2	508.4
7.5°	591.4	579.7	573.4	568.4	555.3	542.2	531.4	524.2	514.7	503.9	495.8
10°	620.3	598.6	591.9	580.6	562.1	543.6	531.0	519.2	506.1	493.5	482.7
12.5°	643.3	618.5	605.8	594.6	570.7	547.2	526.0	511.6	495.8	481.8	467.8
15°	669.4	641.5	619.4	605.8	575.6	547.2	523.3	503.0	485.4	468.3	456.1
17.5°	682.1	646.9	637.0	617.6	573.8	545.4	516.1	494.4	473.2	453.4	438.9
20°	701.9	660.9	636.1	623.0	584.2	542.2	507.9	483.1	461.0	439.8	424.5
22.5°	703.3	658.6	642.4	617.6	569.8	532.8	500.7	470.5	444.8	424.9	409.2
25°	700.1	654.6	632.0	612.2	572.5	527.3	486.3	456.5	431.3	408.3	389.8
27.5°	698.8	642.8	621.6	601.8	557.1	511.6	477.7	443.9	415.0	394.7	375.8
30°	697.0	630.2	604.5	581.5	540.4	499.4	458.8	429.5	401.9	376.2	357.3
32.5°	685.2	613.1	586.9	562.5	518.3	477.3	445.2	414.1	384.3	360.4	343.3
35°	681.6	597.3	563.0	536.8	493.5	457.0	423.1	397.4	369.5	345.5	325.2
37.5°	671.3	581.0	544.0	510.7	465.5	430.8	406.0	380.3	353.2	327.5	311.3
40°	653.2	562.1	520.1	485.8	439.4	404.2	381.2	362.2	335.6	312.6	292.8
42.5°	626.6	542.7	497.6	461.5	410.1	377.1	358.2	340.1	317.6	293.7	277.4
45°	595.9	517.0	475.0	434.9	382.5	350.5	330.7	319.8	299.1	278.8	259.8
47.5°	554.0	490.4	448.9	407.4	354.1	323.0	307.2	296.4	281.9	259.8	244.5
50°	501.2	456.1	416.8	379.8	326.2	296.4	280.6	272.5	260.3	244.5	229.6
52.5°	442.5	416.4	383.9	349.6	297.7	269.8	255.3	249.0	240.0	225.1	212.5
55°	383.4	372.2	350.1	316.2	268.0	245.0	232.3	224.2	217.4	206.6	195.8
57.5°	330.7	325.2	309.9	283.7	243.1	219.2	208.4	203.0	197.6	189.5	178.6
60°	276.1	281.9	266.2	253.1	216.1	195.3	185.9	180.0	177.3	170.1	163.3
62.5°	228.7	234.1	225.1	215.2	189.0	170.5	164.7	159.2	157.4	151.1	144.4
65°	185.9	192.6	185.9	180.4	164.7	149.3	142.1	139.4	137.6	133.5	128.1
67.5°	148.0	154.7	151.6	144.8	139.8	127.2	123.2	120.4	119.5	116.4	111.9
70°	111.4	120.9	121.8	117.7	113.2	107.4	104.7	103.8	101.5	98.8	96.1
72.5°	80.3	91.1	91.6	91.6	88.9	88.9	86.2	84.8	84.8	82.1	78.9
75°	59.1	66.3	67.2	68.1	69.5	70.8	69.0	69.0	68.6	65.9	64.5
77.5°	39.2	45.6	47.8	51.0	52.8	52.8	53.7	54.6	53.7	52.3	51.4
80°	25.3	29.8	32.5	34.3	37.0	38.3	39.7	40.1	39.2	38.8	37.4
82.5°	16.7	18.0	19.4	21.7	24.8	27.1	27.1	26.6	27.5	27.1	26.6
85°	9.5	10.4	10.8	11.3	13.1	15.3	15.8	16.2	17.1	16.2	15.3
87.5°	3.6	4.1	4.1	4.1	5.0	5.4	6.8	8.6	8.1	7.2	7.2
90°	8.7	7.0	6.2	5.6	4.3	3.1	1.8	0.6	1.8	3.1	4.3
92.5°	11.4	10.3	9.7	10.1	10.8	11.6	12.3	13.1	12.3	11.6	10.8
95°	13.5	12.1	11.4	14.0	19.2	24.3	29.5	34.7	29.5	24.3	19.2
97.5°	37.5	44.0	47.2	49.0	52.5	56.0	59.6	63.1	59.6	56.0	52.5
100°	77.8	97.5	107.4	106.1	103.6	101.1	98.5	96.0	98.5	101.1	103.6
102.5°	107.9	129.9	140.9	140.1	138.4	136.8	135.1	133.5	135.1	136.8	138.4
105°	158.5	169.9	175.6	174.9	173.5	172.1	170.7	169.3	170.7	172.1	173.5
107.5°	215.3	213.4	212.5	211.9	210.8	209.7	208.5	207.4	208.5	209.7	210.8
110°	252.1	250.7	250.0	249.5	248.5	247.5	246.5	245.5	246.5	247.5	248.5

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	287.9	286.5	285.8	285.4	284.5	283.6	282.7	281.8	282.7	283.6	284.5
115°	322.7	321.6	321.0	320.6	319.9	319.1	318.4	317.6	318.4	319.1	319.9
117.5°	357.8	357.1	356.8	356.4	355.5	354.6	353.7	352.8	353.7	354.6	355.5
120°	390.9	390.5	390.3	389.7	388.6	387.5	386.3	385.2	386.3	387.5	388.6
122.5°	422.9	422.4	422.2	421.8	420.9	420.0	419.1	418.2	419.1	420.0	420.9
125°	453.0	452.5	452.3	451.8	450.8	449.7	448.7	447.7	448.7	449.7	450.8
127.5°	482.8	482.1	481.8	481.3	480.3	479.3	478.3	477.3	478.3	479.3	480.3
130°	509.9	509.4	509.1	508.6	507.6	506.5	505.5	504.5	505.5	506.5	507.6
132.5°	535.8	535.4	535.2	534.7	533.7	532.7	531.7	530.7	531.7	532.7	533.7
135°	561.6	561.1	560.8	560.4	559.7	558.9	558.2	557.4	558.2	558.9	559.7
137.5°	585.1	584.8	584.7	584.2	583.2	582.1	581.1	580.1	581.1	582.1	583.2
140°	606.8	606.4	606.2	605.8	605.1	604.3	603.6	602.8	603.6	604.3	605.1
142.5°	627.9	627.5	627.3	626.9	626.2	625.4	624.7	623.9	624.7	625.4	626.2
145°	647.6	647.3	647.2	646.8	645.9	645.0	644.1	643.2	644.1	645.0	645.9
147.5°	665.2	664.9	664.8	664.5	663.8	663.2	662.5	661.9	662.5	663.2	663.8
150°	681.1	680.8	680.7	680.5	680.1	679.8	679.4	679.0	679.4	679.8	680.1
152.5°	695.1	695.0	694.9	694.8	694.7	694.6	694.4	694.3	694.4	694.6	694.7
155°	707.6	707.5	707.4	707.5	707.8	708.0	708.3	708.5	708.3	708.0	707.8
157.5°	719.7	719.8	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
160°	729.3	729.4	729.5	729.6	729.7	729.8	730.0	730.1	730.0	729.8	729.7
162.5°	737.9	738.0	738.1	738.3	738.7	739.0	739.4	739.8	739.4	739.0	738.7
165°	745.3	745.4	745.5	745.7	746.1	746.4	746.8	747.2	746.8	746.4	746.1
167.5°	751.1	751.1	751.1	751.4	751.9	752.4	752.9	753.4	752.9	752.4	751.9
170°	756.2	756.2	756.2	756.5	757.0	757.5	758.0	758.5	758.0	757.5	757.0
172.5°	759.3	759.2	759.1	759.4	760.0	760.7	761.3	761.9	761.3	760.7	760.0
175°	762.1	762.0	761.9	762.2	762.9	763.5	764.2	764.8	764.2	763.5	762.9
177.5°	763.3	763.2	763.1	763.4	764.0	764.7	765.3	765.9	765.3	764.7	764.0
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	520.1	517.9	517.0	514.7	509.3	505.7	501.6	498.9	499.4	497.1	498.5
5°	503.9	503.4	500.3	495.8	488.1	484.0	476.8	473.2	471.4	471.9	469.2
7.5°	490.4	486.3	484.0	476.8	469.6	461.0	455.2	452.0	449.3	446.6	444.8
10°	475.0	471.4	467.8	460.1	450.2	442.1	434.0	430.8	426.7	424.9	423.6
12.5°	458.8	456.5	452.0	443.0	431.7	424.0	414.6	412.8	407.4	403.7	402.8
15°	443.9	442.5	434.4	424.0	412.8	405.1	397.0	391.6	382.5	384.3	381.2
17.5°	428.1	422.2	417.3	403.3	397.9	386.1	376.7	374.0	367.7	363.6	359.5
20°	410.5	406.9	400.6	391.6	378.5	364.9	357.7	353.2	349.6	343.3	341.5
22.5°	393.8	389.3	383.9	372.2	360.9	349.6	339.7	335.6	331.1	326.6	323.9
25°	380.7	374.0	368.1	353.7	342.4	332.9	326.6	319.8	313.5	310.8	309.9
27.5°	360.4	356.4	350.5	337.0	326.6	316.2	310.4	305.9	299.1	295.9	293.2
30°	347.4	339.2	332.5	321.6	311.3	300.0	294.6	289.2	285.1	281.0	277.9
32.5°	329.8	323.4	318.0	307.2	296.8	286.5	280.6	272.5	270.2	267.1	263.4
35°	312.6	308.6	302.7	291.0	279.7	272.5	266.2	258.5	255.8	253.5	250.4
37.5°	296.4	290.5	286.5	275.2	265.3	256.7	251.7	245.4	243.6	240.9	238.6
40°	282.4	276.5	272.5	261.2	250.8	241.8	238.6	232.3	229.6	226.5	225.1
42.5°	266.6	261.6	256.2	248.1	237.3	228.3	221.9	218.3	214.7	213.4	210.7
45°	249.9	245.4	241.3	232.3	221.0	214.7	209.3	204.4	201.6	199.4	197.6
47.5°	235.5	231.4	226.0	216.1	207.1	201.2	195.8	190.8	188.1	185.4	183.2
50°	218.8	216.5	210.7	201.2	192.6	185.9	180.9	176.4	174.6	171.4	167.8
52.5°	203.9	199.8	194.9	187.2	179.5	171.4	164.7	161.9	158.8	157.0	153.8
55°	186.3	183.6	178.2	171.4	163.3	156.5	151.6	148.0	143.9	142.1	138.0
57.5°	171.4	166.5	163.8	155.2	147.5	140.7	137.1	133.5	129.0	126.3	124.5
60°	155.2	150.7	146.6	139.4	134.0	126.8	121.3	118.2	115.0	111.4	109.6
62.5°	139.4	135.8	130.8	125.0	118.2	112.3	108.3	103.8	102.0	98.3	97.0
65°	122.3	119.5	115.5	108.7	103.3	98.3	94.3	90.7	88.9	87.5	86.6
67.5°	106.9	103.3	100.6	94.7	88.9	84.8	82.6	80.3	78.0	76.7	75.3
70°	91.1	88.4	85.7	80.3	76.2	72.6	70.8	69.0	67.7	66.3	65.0
72.5°	74.9	73.5	70.8	67.2	64.1	61.4	60.0	57.7	56.4	54.1	53.2
75°	61.8	59.5	58.2	55.0	52.3	50.1	48.3	45.6	43.8	42.9	42.4
77.5°	48.7	47.8	46.0	43.3	42.0	39.7	37.0	36.1	35.2	35.2	34.7
80°	36.5	35.2	33.8	31.6	30.2	28.4	28.4	28.4	28.0	28.4	28.0
82.5°	24.8	23.9	23.0	21.7	21.2	21.2	21.7	21.7	21.7	21.7	21.7
85°	14.4	14.4	14.4	14.9	14.4	14.4	14.9	15.3	14.9	14.9	14.4
87.5°	6.8	6.8	7.2	7.2	7.7	7.7	7.7	7.7	7.7	7.7	8.1
90°	5.6	6.2	7.0	8.7	10.3	12.0	13.6	14.1	14.6	15.1	15.6
92.5°	10.1	9.7	10.3	11.4	12.5	13.7	14.8	15.7	16.5	17.4	18.3
95°	14.0	11.4	12.1	13.5	14.8	16.2	17.6	18.5	19.4	20.3	21.2
97.5°	49.0	47.2	44.0	37.5	31.1	24.6	18.2	19.2	20.2	21.2	22.2
100°	106.1	107.4	97.5	77.8	58.1	38.4	18.7	19.7	20.7	21.8	22.8
102.5°	140.1	140.9	129.9	107.9	86.0	64.0	42.0	37.8	33.7	29.5	25.4
105°	174.9	175.6	169.9	158.5	147.2	135.8	124.4	102.1	79.7	57.4	35.1
107.5°	211.9	212.5	213.4	215.3	217.2	219.1	221.0	201.6	182.1	162.7	143.2
110°	249.5	250.0	250.7	252.1	253.4	254.8	256.2	252.0	247.9	243.7	239.6

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	285.4	285.8	286.5	287.9	289.2	290.6	292.0	293.2	294.3	295.5	296.6
115°	320.6	321.0	321.6	322.7	323.8	325.0	326.1	327.4	328.6	329.9	331.2
117.5°	356.4	356.8	357.1	357.8	358.4	359.1	359.7	360.7	361.7	362.7	363.7
120°	389.7	390.3	390.5	390.9	391.2	391.6	392.0	393.0	394.0	395.1	396.1
122.5°	421.8	422.2	422.4	422.9	423.4	423.9	424.4	425.0	425.7	426.3	427.0
125°	451.8	452.3	452.5	453.0	453.5	454.0	454.5	454.8	455.0	455.3	455.6
127.5°	481.3	481.8	482.1	482.8	483.4	484.1	484.7	485.1	485.5	485.8	486.2
130°	508.6	509.1	509.4	509.9	510.4	510.9	511.4	511.9	512.4	512.9	513.4
132.5°	534.7	535.2	535.4	535.8	536.1	536.5	536.9	537.4	537.9	538.4	538.9
135°	560.4	560.8	561.1	561.6	562.1	562.6	563.1	563.5	563.9	564.2	564.6
137.5°	584.2	584.7	584.8	585.1	585.3	585.6	585.8	586.4	587.0	587.7	588.3
140°	605.8	606.2	606.4	606.8	607.2	607.6	608.0	608.5	609.0	609.5	610.0
142.5°	626.9	627.3	627.5	627.9	628.2	628.6	629.0	629.4	629.8	630.1	630.5
145°	646.8	647.2	647.3	647.6	647.8	648.1	648.3	648.5	648.8	649.0	649.3
147.5°	664.5	664.8	664.9	665.2	665.4	665.7	665.9	666.1	666.4	666.6	666.9
150°	680.5	680.7	680.8	681.1	681.3	681.6	681.8	682.1	682.3	682.6	682.9
152.5°	694.8	694.9	695.0	695.1	695.2	695.4	695.5	696.0	696.5	697.0	697.5
155°	707.5	707.4	707.5	707.6	707.7	707.9	708.0	708.6	709.2	709.9	710.5
157.5°	719.9	719.9	719.8	719.7	719.6	719.4	719.3	720.1	720.8	721.6	722.3
160°	729.6	729.5	729.4	729.3	729.2	729.1	729.0	729.8	730.5	731.3	732.0
162.5°	738.3	738.1	738.0	737.9	737.8	737.6	737.5	738.4	739.3	740.2	741.1
165°	745.7	745.5	745.4	745.3	745.2	745.0	744.9	745.9	746.9	747.9	748.9
167.5°	751.4	751.1	751.1	751.1	751.1	751.1	751.1	752.1	753.1	754.2	755.2
170°	756.5	756.2	756.2	756.2	756.2	756.2	756.2	757.2	758.2	759.3	760.3
172.5°	759.4	759.1	759.2	759.3	759.4	759.6	759.7	760.7	761.7	762.7	763.7
175°	762.2	761.9	762.0	762.1	762.2	762.4	762.5	763.4	764.3	765.2	766.1
177.5°	763.4	763.1	763.2	763.3	763.4	763.5	763.6	764.6	765.6	766.7	767.7
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	498.0	498.5	497.1	494.4	494.0	494.9	497.6	496.7	494.4	498.5	494.9
5°	470.5	468.3	467.3	468.3	465.5	464.2	466.9	465.5	466.9	467.3	468.7
7.5°	443.9	444.3	441.6	442.1	438.5	439.4	439.4	439.4	440.7	441.6	443.4
10°	420.9	421.8	418.6	419.1	416.4	414.6	415.9	418.6	418.6	418.6	419.5
12.5°	402.4	398.3	396.1	395.6	392.5	391.6	394.3	395.2	397.4	397.4	398.8
15°	379.4	378.5	376.7	376.7	369.0	370.8	371.7	374.9	379.4	375.8	376.7
17.5°	358.6	356.4	354.1	353.2	352.3	349.6	353.2	352.8	355.5	355.9	357.3
20°	340.1	338.3	333.8	334.3	335.2	331.1	333.4	333.4	336.1	338.8	341.9
22.5°	322.1	320.3	318.0	318.9	316.2	315.3	315.3	317.6	320.7	323.0	322.5
25°	308.1	305.0	303.6	302.2	300.9	301.8	300.4	302.7	305.0	306.3	305.0
27.5°	292.3	291.0	288.3	286.9	284.7	285.6	286.5	288.3	289.6	289.6	291.0
30°	277.0	275.2	274.3	272.9	272.9	271.1	271.6	273.4	274.7	276.1	277.9
32.5°	262.1	260.7	259.4	259.4	258.5	258.0	257.6	260.3	260.3	263.0	263.0
35°	249.9	247.7	247.7	245.4	246.3	245.9	245.0	246.8	247.2	249.0	248.6
37.5°	236.4	236.4	235.5	233.2	231.4	231.9	234.1	234.1	235.5	235.0	236.4
40°	222.8	221.9	221.9	220.6	220.1	219.7	220.1	220.6	222.8	222.4	222.8
42.5°	209.3	209.8	207.5	207.5	207.5	206.2	206.6	207.1	208.0	208.9	210.2
45°	196.2	195.3	194.9	194.0	193.1	193.5	193.1	194.9	194.4	195.3	196.7
47.5°	182.2	180.9	180.4	178.6	178.6	179.5	179.1	180.4	180.9	182.2	181.3
50°	168.7	166.9	165.6	166.0	163.3	164.2	164.2	165.6	166.9	167.4	168.3
52.5°	152.9	152.5	152.0	149.8	149.3	148.9	149.3	149.8	151.6	152.9	153.4
55°	137.6	137.1	134.4	133.5	132.2	132.2	133.1	133.5	136.7	137.1	138.9
57.5°	123.6	122.3	119.1	118.6	118.6	118.6	117.3	119.1	120.0	122.3	122.3
60°	108.3	108.3	105.6	105.6	106.0	105.6	105.6	106.0	106.0	107.8	108.7
62.5°	96.1	95.6	95.6	94.7	94.3	94.7	94.3	94.3	94.7	96.1	97.4
65°	85.3	84.8	84.4	83.9	83.0	83.0	83.5	84.4	84.4	85.3	85.7
67.5°	74.9	74.9	74.0	74.0	73.5	73.1	73.5	73.1	74.9	74.9	75.3
70°	64.5	64.1	62.7	62.3	60.9	61.4	61.4	62.7	63.2	64.1	65.0
72.5°	51.9	51.9	51.0	50.1	50.5	49.6	49.6	50.1	50.1	51.4	51.9
75°	42.9	42.0	41.5	42.0	41.5	42.4	41.5	41.5	42.4	42.4	42.4
77.5°	35.2	35.2	34.7	34.7	35.2	34.7	35.2	35.2	35.2	34.7	35.2
80°	28.9	28.4	28.4	28.4	28.0	28.0	28.0	28.0	28.0	28.0	28.0
82.5°	21.7	21.7	21.2	21.7	21.7	21.2	21.7	21.2	21.2	21.7	21.7
85°	14.4	15.3	14.4	14.4	14.9	14.9	15.3	14.9	15.3	14.4	14.9
87.5°	7.7	8.1	8.1	7.7	7.7	8.1	8.1	8.1	8.6	7.7	8.1
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	18.7	18.8	18.9	19.0	19.2	19.3	19.2	19.0	18.9	18.8	18.7
95°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
97.5°	22.7	22.8	22.9	23.0	23.2	23.3	23.2	23.0	22.9	22.8	22.7
100°	23.3	23.4	23.5	23.6	23.8	23.9	23.8	23.6	23.5	23.4	23.3
102.5°	23.3	23.4	23.7	23.9	24.2	24.4	24.2	23.9	23.7	23.4	23.3
105°	23.9	24.0	24.3	24.5	24.8	25.0	24.8	24.5	24.3	24.0	23.9
107.5°	133.5	125.2	108.7	92.2	75.6	59.1	75.6	92.2	108.7	125.2	133.5
110°	237.5	228.5	210.4	192.3	174.3	156.2	174.3	192.3	210.4	228.5	237.5

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	297.2	297.1	296.8	296.5	296.3	296.0	296.3	296.5	296.8	297.1	297.2
115°	331.8	332.1	332.6	333.1	333.6	334.1	333.6	333.1	332.6	332.1	331.8
117.5°	364.2	364.3	364.4	364.5	364.7	364.8	364.7	364.5	364.4	364.3	364.2
120°	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6
122.5°	427.3	427.4	427.5	427.6	427.7	427.8	427.7	427.6	427.5	427.4	427.3
125°	455.7	455.8	456.1	456.3	456.6	456.8	456.6	456.3	456.1	455.8	455.7
127.5°	486.4	486.3	486.0	485.7	485.5	485.2	485.5	485.7	486.0	486.3	486.4
130°	513.6	513.5	513.2	513.0	512.7	512.5	512.7	513.0	513.2	513.5	513.6
132.5°	539.2	539.0	538.6	538.3	537.9	537.5	537.9	538.3	538.6	539.0	539.2
135°	564.8	564.6	564.2	563.9	563.5	563.1	563.5	563.9	564.2	564.6	564.8
137.5°	588.6	588.5	588.2	588.0	587.7	587.5	587.7	588.0	588.2	588.5	588.6
140°	610.2	610.1	609.8	609.6	609.3	609.1	609.3	609.6	609.8	610.1	610.2
142.5°	630.7	630.5	630.1	629.8	629.4	629.0	629.4	629.8	630.1	630.5	630.7
145°	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4
147.5°	667.0	666.7	666.1	665.4	664.8	664.2	664.8	665.4	666.1	666.7	667.0
150°	683.0	682.8	682.4	682.0	681.6	681.2	681.6	682.0	682.4	682.8	683.0
152.5°	697.7	697.4	696.8	696.1	695.5	694.9	695.5	696.1	696.8	697.4	697.7
155°	710.8	710.4	709.7	708.9	708.2	707.4	708.2	708.9	709.7	710.4	710.8
157.5°	722.7	722.2	721.2	720.2	719.2	718.2	719.2	720.2	721.2	722.2	722.7
160°	732.4	732.0	731.1	730.2	729.3	728.4	729.3	730.2	731.1	732.0	732.4
162.5°	741.5	741.1	740.4	739.6	738.9	738.1	738.9	739.6	740.4	741.1	741.5
165°	749.4	749.0	748.1	747.2	746.4	745.5	746.4	747.2	748.1	749.0	749.4
167.5°	755.7	755.2	754.2	753.1	752.1	751.1	752.1	753.1	754.2	755.2	755.7
170°	760.8	760.3	759.3	758.2	757.2	756.2	757.2	758.2	759.3	760.3	760.8
172.5°	764.2	763.6	762.5	761.4	760.2	759.1	760.2	761.4	762.5	763.6	764.2
175°	766.5	766.0	765.0	763.9	762.9	761.9	762.9	763.9	765.0	766.0	766.5
177.5°	768.2	767.6	766.3	765.0	763.8	762.5	763.8	765.0	766.3	767.6	768.2
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	498.5	500.3	498.5	494.9	498.5	500.7	503.0	506.6	508.4	508.4	511.1
5°	470.1	473.7	472.3	471.4	475.0	477.3	480.9	485.4	490.4	493.5	497.1
7.5°	444.8	447.0	449.3	449.3	452.9	457.9	463.3	468.7	475.0	479.5	482.2
10°	422.7	424.5	425.8	427.7	433.1	438.5	445.7	452.5	457.9	462.8	467.3
12.5°	401.5	404.2	407.4	408.7	412.8	419.5	426.3	434.4	443.0	448.0	452.5
15°	381.2	382.5	386.1	390.2	393.8	401.0	409.6	418.2	425.4	433.1	437.1
17.5°	360.4	360.9	370.4	368.1	379.8	386.6	391.1	399.2	411.0	417.3	423.6
20°	340.1	344.6	348.7	351.0	357.3	364.9	378.0	384.3	393.8	399.7	405.1
22.5°	324.3	331.1	331.1	336.5	339.7	346.9	356.4	368.6	378.9	383.0	390.7
25°	310.4	313.5	318.9	320.7	326.6	332.9	339.2	352.3	363.6	369.0	374.4
27.5°	292.3	296.4	303.6	303.6	311.3	318.0	325.7	334.3	345.5	353.2	359.1
30°	278.3	282.4	285.6	290.5	293.7	300.0	313.5	319.8	329.8	336.5	343.7
32.5°	265.3	268.4	271.1	276.5	280.1	287.4	294.6	305.9	314.4	320.7	328.4
35°	250.8	254.0	257.6	261.6	267.1	273.8	280.6	290.1	298.6	304.5	310.8
37.5°	237.3	239.5	245.0	247.7	252.2	258.5	267.1	277.0	284.7	289.2	295.5
40°	224.2	226.0	230.1	235.0	238.2	243.1	252.2	260.7	270.2	275.6	280.6
42.5°	210.2	212.5	216.1	221.0	226.0	231.4	236.4	246.3	254.9	259.4	264.8
45°	198.0	199.4	202.1	207.1	212.0	216.1	223.8	232.8	240.9	244.5	250.4
47.5°	183.6	185.0	189.0	191.3	196.7	202.1	209.8	218.8	226.0	229.6	235.0
50°	168.7	170.1	172.8	177.7	181.3	187.2	194.0	201.6	210.7	215.6	218.8
52.5°	154.3	157.0	159.2	163.3	167.8	173.7	180.0	187.2	194.9	199.8	203.5
55°	139.8	142.1	144.8	147.1	152.5	157.9	165.1	171.9	178.6	183.2	187.2
57.5°	123.6	126.8	129.5	134.0	138.0	142.6	150.7	156.1	164.2	167.4	171.0
60°	109.6	112.8	115.0	118.6	122.3	128.1	133.5	140.3	147.1	151.1	155.6
62.5°	97.9	99.2	100.6	104.2	107.8	113.2	118.6	125.4	132.6	134.9	138.5
65°	86.2	87.5	89.8	92.9	95.6	98.8	104.7	110.1	116.8	120.4	121.8
67.5°	76.2	77.6	78.0	80.3	82.6	86.2	89.3	94.7	101.0	103.3	106.0
70°	65.0	67.2	67.7	69.5	70.4	72.6	76.2	80.3	85.3	89.3	91.6
72.5°	51.9	55.0	55.9	58.6	60.0	62.3	65.0	68.1	71.3	73.1	74.9
75°	42.4	43.3	43.8	46.0	48.3	51.4	52.8	54.6	57.3	59.5	61.4
77.5°	35.2	35.6	36.1	36.1	36.5	38.3	41.1	43.3	45.1	46.0	47.4
80°	28.4	28.0	28.0	28.4	28.4	28.4	29.3	32.5	33.4	35.6	35.2
82.5°	22.1	21.2	21.7	21.2	21.2	21.2	21.2	21.7	21.7	23.0	23.9
85°	14.4	14.9	14.4	14.4	14.0	14.4	14.0	14.0	13.5	13.5	13.1
87.5°	7.7	8.1	7.7	7.7	7.2	7.7	7.2	7.2	6.8	6.8	5.9
90°	15.6	15.1	14.6	14.1	13.6	12.0	10.3	8.7	7.0	6.2	5.6
92.5°	18.3	17.4	16.5	15.7	14.8	13.7	12.5	11.4	10.3	9.7	10.1
95°	21.2	20.3	19.4	18.5	17.6	16.2	14.8	13.5	12.1	11.4	14.0
97.5°	22.2	21.2	20.2	19.2	18.2	24.6	31.1	37.5	44.0	47.2	49.0
100°	22.8	21.8	20.7	19.7	18.7	38.4	58.1	77.8	97.5	107.4	106.1
102.5°	25.4	29.5	33.7	37.8	42.0	64.0	86.0	107.9	129.9	140.9	140.1
105°	35.1	57.4	79.7	102.1	124.4	135.8	147.2	158.5	169.9	175.6	174.9
107.5°	143.2	162.7	182.1	201.6	221.0	219.1	217.2	215.3	213.4	212.5	211.9
110°	239.6	243.7	247.9	252.0	256.2	254.8	253.4	252.1	250.7	250.0	249.5

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	296.6	295.5	294.3	293.2	292.0	290.6	289.2	287.9	286.5	285.8	285.4
115°	331.2	329.9	328.6	327.4	326.1	325.0	323.8	322.7	321.6	321.0	320.6
117.5°	363.7	362.7	361.7	360.7	359.7	359.1	358.4	357.8	357.1	356.8	356.4
120°	396.1	395.1	394.0	393.0	392.0	391.6	391.2	390.9	390.5	390.3	389.7
122.5°	427.0	426.3	425.7	425.0	424.4	423.9	423.4	422.9	422.4	422.2	421.8
125°	455.6	455.3	455.0	454.8	454.5	454.0	453.5	453.0	452.5	452.3	451.8
127.5°	486.2	485.8	485.5	485.1	484.7	484.1	483.4	482.8	482.1	481.8	481.3
130°	513.4	512.9	512.4	511.9	511.4	510.9	510.4	509.9	509.4	509.1	508.6
132.5°	538.9	538.4	537.9	537.4	536.9	536.5	536.1	535.8	535.4	535.2	534.7
135°	564.6	564.2	563.9	563.5	563.1	562.6	562.1	561.6	561.1	560.8	560.4
137.5°	588.3	587.7	587.0	586.4	585.8	585.6	585.3	585.1	584.8	584.7	584.2
140°	610.0	609.5	609.0	608.5	608.0	607.6	607.2	606.8	606.4	606.2	605.8
142.5°	630.5	630.1	629.8	629.4	629.0	628.6	628.2	627.9	627.5	627.3	626.9
145°	649.3	649.0	648.8	648.5	648.3	648.1	647.8	647.6	647.3	647.2	646.8
147.5°	666.9	666.6	666.4	666.1	665.9	665.7	665.4	665.2	664.9	664.8	664.5
150°	682.9	682.6	682.3	682.1	681.8	681.6	681.3	681.1	680.8	680.7	680.5
152.5°	697.5	697.0	696.5	696.0	695.5	695.4	695.2	695.1	695.0	694.9	694.8
155°	710.5	709.9	709.2	708.6	708.0	707.9	707.7	707.6	707.5	707.4	707.5
157.5°	722.3	721.6	720.8	720.1	719.3	719.4	719.6	719.7	719.8	719.9	719.9
160°	732.0	731.3	730.5	729.8	729.0	729.1	729.2	729.3	729.4	729.5	729.6
162.5°	741.1	740.2	739.3	738.4	737.5	737.6	737.8	737.9	738.0	738.1	738.3
165°	748.9	747.9	746.9	745.9	744.9	745.0	745.2	745.3	745.4	745.5	745.7
167.5°	755.2	754.2	753.1	752.1	751.1	751.1	751.1	751.1	751.1	751.1	751.4
170°	760.3	759.3	758.2	757.2	756.2	756.2	756.2	756.2	756.2	756.2	756.5
172.5°	763.7	762.7	761.7	760.7	759.7	759.6	759.4	759.3	759.2	759.1	759.4
175°	766.1	765.2	764.3	763.4	762.5	762.4	762.2	762.1	762.0	761.9	762.2
177.5°	767.7	766.7	765.6	764.6	763.6	763.5	763.4	763.3	763.2	763.1	763.4
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	526.9	526.9	526.9	526.9
2.5°	513.4	516.5	522.8	528.2
5°	502.5	507.5	517.0	526.4
7.5°	489.5	497.1	509.3	522.4
10°	476.8	486.7	501.6	517.0
12.5°	464.2	474.6	490.4	510.2
15°	449.3	460.1	479.1	503.0
17.5°	436.2	450.7	467.8	491.7
20°	422.2	433.1	455.2	480.4
22.5°	404.6	422.7	443.4	470.1
25°	390.7	406.4	427.2	457.4
27.5°	373.5	392.0	417.3	443.9
30°	359.5	374.9	398.3	430.4
32.5°	343.3	361.3	385.7	417.3
35°	328.9	344.2	367.2	399.2
37.5°	311.7	328.4	354.1	382.5
40°	296.8	313.1	337.4	364.0
42.5°	278.8	295.9	320.3	342.8
45°	264.4	280.1	299.5	320.3
47.5°	246.8	263.4	282.4	296.8
50°	231.0	246.3	261.2	273.4
52.5°	213.8	227.8	241.3	250.4
55°	198.0	208.9	219.7	226.0
57.5°	179.5	189.9	198.9	202.5
60°	163.3	171.9	177.7	181.8
62.5°	146.2	152.5	157.0	159.2
65°	129.5	134.0	136.2	138.5
67.5°	112.3	116.4	117.7	120.4
70°	94.3	98.8	99.7	101.0
72.5°	80.7	80.7	82.6	84.4
75°	64.5	65.4	66.3	66.3
77.5°	50.5	50.5	51.4	51.9
80°	37.0	37.4	37.4	37.0
82.5°	25.3	26.2	25.3	24.8
85°	14.0	15.8	14.9	14.9
87.5°	5.9	5.9	6.8	5.9
90°	4.3	3.1	1.8	0.6
92.5°	10.8	11.6	12.3	13.1
95°	19.2	24.3	29.5	34.7
97.5°	52.5	56.0	59.6	63.1
100°	103.6	101.1	98.5	96.0
102.5°	138.4	136.8	135.1	133.5
105°	173.5	172.1	170.7	169.3
107.5°	210.8	209.7	208.5	207.4
110°	248.5	247.5	246.5	245.5



TEST NUMBER: P1010902

CATALOG NUMBER: S123RDIP-B340D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	284.5	283.6	282.7	281.8
115°	319.9	319.1	318.4	317.6
117.5°	355.5	354.6	353.7	352.8
120°	388.6	387.5	386.3	385.2
122.5°	420.9	420.0	419.1	418.2
125°	450.8	449.7	448.7	447.7
127.5°	480.3	479.3	478.3	477.3
130°	507.6	506.5	505.5	504.5
132.5°	533.7	532.7	531.7	530.7
135°	559.7	558.9	558.2	557.4
137.5°	583.2	582.1	581.1	580.1
140°	605.1	604.3	603.6	602.8
142.5°	626.2	625.4	624.7	623.9
145°	645.9	645.0	644.1	643.2
147.5°	663.8	663.2	662.5	661.9
150°	680.1	679.8	679.4	679.0
152.5°	694.7	694.6	694.4	694.3
155°	707.8	708.0	708.3	708.5
157.5°	719.9	719.9	719.9	719.9
160°	729.7	729.8	730.0	730.1
162.5°	738.7	739.0	739.4	739.8
165°	746.1	746.4	746.8	747.2
167.5°	751.9	752.4	752.9	753.4
170°	757.0	757.5	758.0	758.5
172.5°	760.0	760.7	761.3	761.9
175°	762.9	763.5	764.2	764.8
177.5°	764.0	764.7	765.3	765.9
180°	764.8	764.8	764.8	764.8

(END OF REPORT)