

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: P1010893

Luminaire Tested: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010893
REPORT IS A COMBINATION OF REPORTS P993209 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

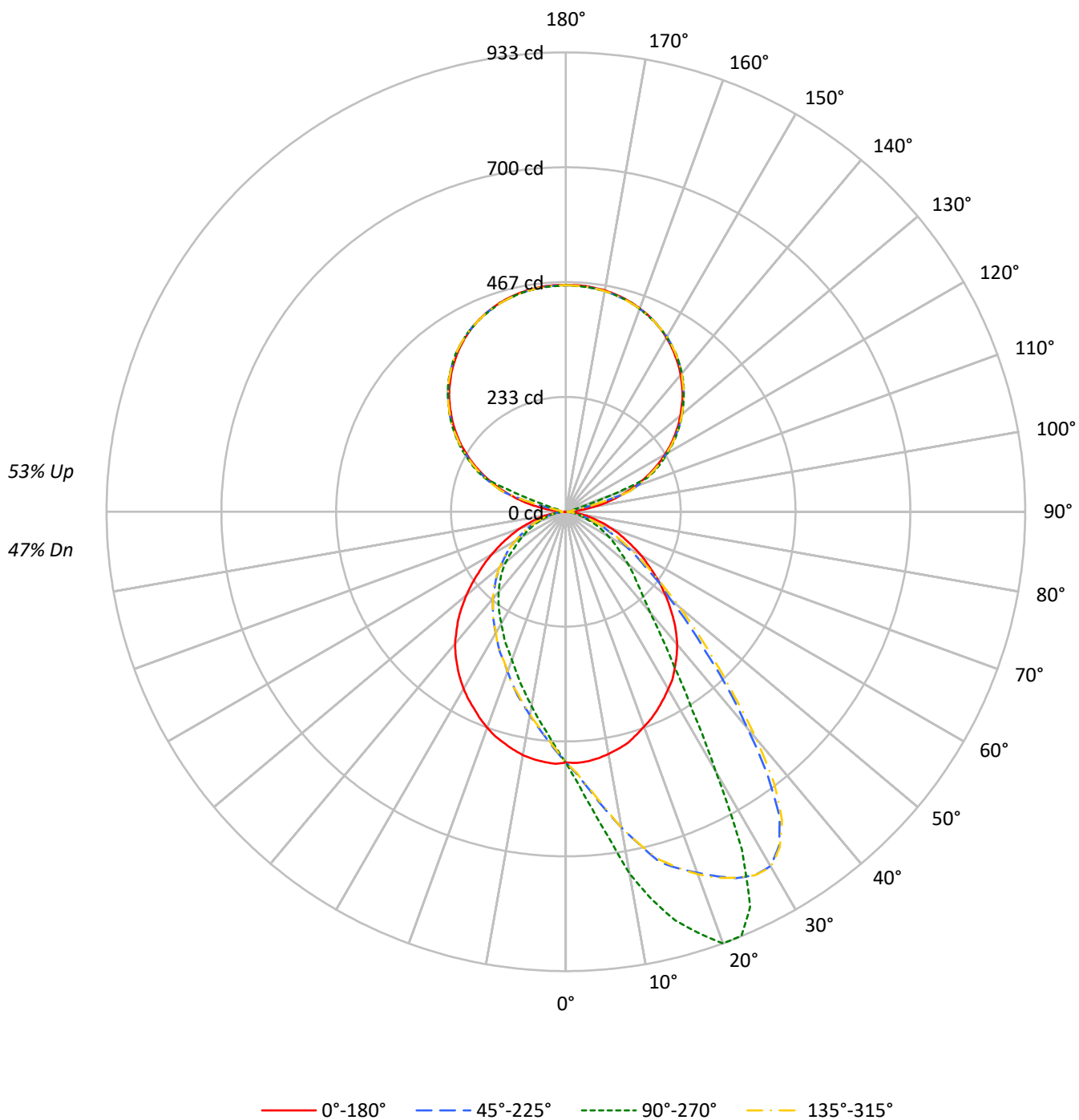
Lumens per Lamp: N/A
Luminaire Lumens: 2672.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	48	47	47
2	89	82	77	72	82	76	71	67	64	61	58	53	51	49	43	42	40
3	82	73	66	60	75	67	61	57	57	53	49	48	44	42	39	37	35
4	75	65	57	52	69	60	54	48	51	46	42	43	39	36	35	32	30
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	32	29	27
6	64	52	44	39	59	49	42	37	42	36	32	35	31	28	29	26	24
7	59	47	40	34	54	44	37	32	38	33	29	32	28	25	27	24	21
8	55	43	36	30	51	40	33	29	35	29	26	29	25	22	25	22	19
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	17
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5481	5481	5481	5481
5°	5486	6313	5500	4683
10°	5437	7621	5461	4091
15°	5381	8649	5381	3607
20°	5270	9329	5300	3200
25°	5190	8864	5180	2920
30°	5096	6141	5086	2645
35°	4982	3943	4960	2439
40°	4842	2784	4818	2233
45°	4596	2228	4591	2033
50°	4296	1864	4282	1800
55°	3957	1536	3926	1525
60°	3625	1269	3590	1297
65°	3234	1016	3256	1100
70°	2877	706	2954	889
75°	2438	524	2537	684
80°	1944	347	2106	512
85°	1383	164	1508	319

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 7318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.9
10°-20°	156.5	5.9
20°-30°	246.6	9.2
30°-40°	256.4	9.6
40°-50°	219.3	8.2
50°-60°	167.2	6.3
60°-70°	107.1	4.0
70°-80°	51.3	1.9
80°-90°	14.4	0.5
90°-100°	16.2	0.6
100°-110°	78.5	2.9
110°-120°	192.3	7.2
120°-130°	244.1	9.1
130°-140°	260.8	9.8
140°-150°	243.8	9.1
150°-160°	196.7	7.4
160°-170°	126.9	4.8
170°-180°	43.7	1.6
0°-30°	453.1	17.0
0°-40°	709.5	26.6
0°-60°	1096.0	41.0
0°-90°	1268.9	47.5
90°-120°	287.0	10.7
90°-150°	1035.7	38.8
90°-180°	1403.0	52.5
0°-180°	2672.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	509	605	510	449	509	48
15°	486	859	486	358	486	137
25°	442	886	441	292	442	204
35°	386	384	384	238	386	241
45°	310	205	309	187	310	238
55°	218	129	217	128	218	196
65°	134	74	135	80	134	134
75°	64	31	67	41	64	69
85°	14	7	16	14	14	16
90°	0	10	0	10	0	2
95°	21	13	21	13	21	25
105°	102	15	102	15	102	108
115°	191	201	191	201	191	189
125°	269	275	269	275	269	241
135°	335	339	335	339	335	258
145°	387	391	387	391	387	242
155°	426	426	426	426	426	196
165°	450	449	450	449	450	127
175°	460	458	460	458	460	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	510.5	514.0	516.6	518.4	522.7	525.4	527.5	531.5	531.5	532.3	534.1
5°	508.8	516.2	521.4	528.4	537.6	541.9	548.0	553.3	560.7	564.6	568.5
7.5°	504.9	515.3	526.2	536.7	550.2	558.9	565.0	578.5	588.1	599.9	609.1
10°	499.6	514.0	528.0	544.1	562.4	575.5	584.7	602.5	620.8	637.4	651.4
12.5°	493.1	510.5	530.6	550.2	575.9	589.0	603.8	626.1	652.2	673.2	691.9
15°	486.1	506.2	528.8	552.8	585.1	603.4	624.8	651.8	681.0	711.1	736.8
17.5°	475.2	500.5	525.8	560.7	598.6	609.5	627.8	664.9	701.1	728.1	759.5
20°	464.3	492.7	524.5	555.9	596.9	622.1	639.1	678.4	717.2	749.9	780.0
22.5°	454.3	483.9	517.1	556.7	595.1	620.4	641.8	682.7	727.7	764.3	801.3
25°	442.1	474.3	511.0	548.5	595.1	614.3	637.8	685.4	732.9	775.2	821.0
27.5°	429.0	461.7	497.9	536.3	579.0	607.3	630.4	681.4	739.4	784.8	831.9
30°	415.9	449.5	484.4	518.8	566.8	593.8	620.4	676.6	742.9	794.8	831.0
32.5°	403.3	431.6	466.1	499.6	547.2	576.8	606.9	671.8	744.2	787.8	805.3
35°	385.8	415.5	443.4	479.1	527.1	556.3	591.6	671.4	738.6	765.6	756.9
37.5°	369.7	394.6	421.2	453.0	502.2	540.2	576.8	660.1	719.8	721.5	672.3
40°	351.8	372.3	394.6	428.1	481.3	518.8	558.5	642.6	685.8	660.1	573.3
42.5°	331.3	349.7	367.1	399.8	457.8	499.6	542.4	620.8	636.5	577.2	487.0
45°	309.5	324.4	340.5	374.9	432.9	474.3	517.1	587.3	571.1	487.4	401.5
47.5°	286.9	299.5	315.2	346.6	406.3	448.6	489.2	539.3	498.3	408.5	336.6
50°	264.2	274.2	289.5	321.8	379.3	417.7	455.2	487.9	430.3	350.5	278.2
52.5°	242.0	249.8	265.5	293.0	348.8	385.4	412.4	425.1	366.7	289.5	241.5
55°	218.4	227.1	237.6	265.5	320.9	347.9	365.8	365.4	305.2	245.5	199.7
57.5°	195.8	203.6	212.8	240.7	285.6	303.9	319.1	311.7	254.6	201.0	171.3
60°	175.7	180.1	190.1	213.6	247.6	263.3	272.1	259.4	208.0	169.6	141.7
62.5°	153.9	158.3	166.5	188.8	209.7	218.0	225.4	209.3	171.8	138.2	121.2
65°	133.8	139.5	144.7	162.6	174.0	184.0	183.1	169.6	134.3	112.5	98.5
67.5°	116.4	118.6	122.9	133.8	139.1	146.5	146.9	131.7	108.1	91.6	83.3
70°	97.7	99.8	102.9	108.1	111.6	113.4	112.5	99.0	81.5	71.5	64.1
72.5°	81.5	81.1	83.3	83.3	86.8	86.3	83.7	73.2	61.9	53.6	49.3
75°	64.1	64.5	65.0	64.1	62.8	61.0	58.9	51.0	43.6	39.7	35.8
77.5°	50.1	49.3	49.7	46.6	44.9	43.2	40.1	36.2	30.1	29.2	27.5
80°	35.8	35.3	34.9	33.6	29.6	27.9	25.7	23.5	22.2	21.4	20.9
82.5°	24.0	24.0	23.1	20.5	18.3	17.0	16.6	15.7	14.4	14.4	14.0
85°	14.4	14.0	13.1	10.5	9.2	9.2	9.2	9.2	8.3	8.3	7.8
87.5°	5.7	5.2	3.9	3.9	3.5	3.5	3.5	3.1	3.1	2.6	2.6
90°	0.3	1.1	1.9	2.6	3.4	3.8	4.3	5.3	6.2	7.2	8.2
92.5°	7.9	7.4	7.0	6.5	6.0	5.8	6.1	6.8	7.5	8.2	8.9
95°	20.9	17.8	14.6	11.5	8.4	6.8	7.2	8.1	8.9	9.8	10.6
97.5°	38.0	35.9	33.7	31.6	29.5	28.4	26.5	22.6	18.7	14.8	10.9
100°	57.8	59.3	60.8	62.3	63.8	64.6	58.7	46.8	35.0	23.1	11.3
102.5°	80.4	81.4	82.4	83.3	84.3	84.8	78.2	65.0	51.7	38.5	25.3
105°	101.9	102.7	103.6	104.4	105.3	105.7	102.3	95.4	88.6	81.7	74.9
107.5°	124.8	125.5	126.2	126.9	127.6	127.9	128.5	129.6	130.7	131.9	133.0
110°	147.7	148.3	148.9	149.5	150.1	150.4	150.8	151.7	152.5	153.4	154.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	169.6	170.1	170.7	171.2	171.7	172.0	172.4	173.3	174.1	175.0	175.8
115°	191.1	191.6	192.0	192.5	193.0	193.2	193.5	194.2	194.9	195.6	196.3
117.5°	212.3	212.8	213.4	213.9	214.4	214.7	214.9	215.3	215.6	216.0	216.4
120°	231.8	232.5	233.2	233.9	234.6	234.9	235.0	235.2	235.5	235.7	235.9
122.5°	251.7	252.2	252.8	253.3	253.8	254.1	254.2	254.5	254.8	255.1	255.4
125°	269.4	270.0	270.6	271.3	271.9	272.2	272.3	272.6	272.9	273.2	273.5
127.5°	287.2	287.8	288.4	289.1	289.7	290.0	290.2	290.6	290.9	291.3	291.7
130°	303.6	304.2	304.8	305.5	306.1	306.4	306.5	306.8	307.1	307.4	307.7
132.5°	319.4	320.0	320.6	321.2	321.8	322.1	322.2	322.4	322.7	322.9	323.1
135°	335.4	335.9	336.3	336.8	337.3	337.5	337.7	338.0	338.3	338.6	338.9
137.5°	349.1	349.7	350.3	350.9	351.5	351.8	351.9	352.0	352.2	352.3	352.5
140°	362.8	363.2	363.7	364.1	364.6	364.8	364.9	365.2	365.4	365.7	365.9
142.5°	375.4	375.9	376.3	376.8	377.3	377.5	377.6	377.8	378.1	378.3	378.5
145°	387.1	387.6	388.2	388.7	389.2	389.5	389.6	389.7	389.8	390.0	390.1
147.5°	398.4	398.8	399.2	399.5	399.9	400.1	400.2	400.3	400.4	400.6	400.7
150°	408.6	408.8	409.0	409.3	409.5	409.6	409.7	409.8	410.0	410.1	410.3
152.5°	417.8	417.9	418.0	418.1	418.2	418.2	418.2	418.3	418.4	418.4	418.5
155°	426.4	426.2	426.1	425.9	425.8	425.7	425.7	425.8	425.9	425.9	426.0
157.5°	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.1	433.0	433.0	432.9
160°	439.4	439.3	439.2	439.1	439.0	439.0	439.0	438.9	438.8	438.8	438.7
162.5°	445.2	445.0	444.8	444.5	444.3	444.2	444.2	444.1	444.0	443.9	443.8
165°	449.6	449.4	449.2	448.9	448.7	448.6	448.6	448.5	448.4	448.4	448.3
167.5°	453.4	453.1	452.8	452.5	452.2	452.0	452.0	452.0	452.0	452.0	452.0
170°	456.5	456.2	455.9	455.6	455.3	455.1	455.1	455.1	455.1	455.1	455.1
172.5°	458.5	458.1	457.7	457.4	457.0	456.8	456.8	456.9	457.0	457.1	457.2
175°	460.2	459.8	459.4	459.1	458.7	458.5	458.5	458.6	458.7	458.8	458.9
177.5°	460.9	460.5	460.1	459.8	459.4	459.2	459.2	459.3	459.4	459.5	459.6
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	537.6	537.6	541.5	545.4	543.2	544.5	549.3	547.6	551.1	550.6	552.0
5°	578.1	582.9	586.8	595.1	596.4	595.1	603.4	605.6	609.5	604.7	606.9
7.5°	623.9	633.9	643.5	655.7	659.6	660.5	664.9	671.0	676.2	666.6	671.4
10°	668.4	683.6	703.2	714.1	723.7	727.2	730.7	734.6	740.7	746.4	742.0
12.5°	716.3	738.6	757.3	776.9	788.7	787.4	797.4	800.0	804.8	806.1	807.9
15°	755.6	786.9	798.7	827.9	830.5	839.3	850.6	860.6	861.9	859.3	859.3
17.5°	793.0	820.1	841.0	864.6	869.3	876.8	891.1	895.9	897.7	897.2	897.2
20°	823.6	841.4	876.8	896.4	904.2	913.8	923.8	929.9	931.3	933.0	930.4
22.5°	843.6	870.7	899.4	915.6	922.1	925.6	932.1	933.9	931.7	932.1	932.6
25°	859.3	885.9	903.4	907.7	907.3	902.9	898.1	889.8	889.0	885.5	878.5
27.5°	863.7	873.7	871.5	853.7	835.8	834.0	805.3	789.6	771.7	774.3	764.3
30°	840.1	827.1	796.1	750.8	732.0	701.5	669.2	635.7	622.6	608.2	634.8
32.5°	782.6	735.9	681.0	622.1	590.8	563.7	529.3	504.9	490.9	479.1	501.8
35°	695.8	623.0	550.2	494.4	468.7	444.3	412.0	399.8	382.4	384.1	386.3
37.5°	584.2	504.0	449.1	394.1	377.1	367.1	343.6	324.8	318.7	317.0	317.0
40°	479.6	413.7	364.9	321.8	308.7	300.4	281.6	272.9	266.4	264.6	266.8
42.5°	396.7	340.5	302.6	273.8	264.6	254.2	246.3	235.4	234.1	231.1	235.0
45°	333.1	284.3	255.9	235.0	227.1	223.2	214.5	208.0	205.3	204.9	208.0
47.5°	282.5	244.6	219.7	206.7	200.6	196.6	189.2	186.6	184.0	184.9	183.5
50°	237.2	208.8	192.7	180.9	177.0	173.1	168.3	165.7	164.4	164.4	163.9
52.5°	203.6	180.1	169.6	158.7	157.0	154.8	149.5	147.8	145.6	145.2	146.9
55°	174.4	158.3	147.8	141.3	139.5	135.2	133.0	130.8	129.5	128.6	129.1
57.5°	149.1	136.9	129.9	124.3	121.2	119.5	115.5	115.1	114.2	114.2	113.8
60°	128.2	119.5	111.2	107.7	105.5	103.3	102.9	100.3	99.0	99.8	99.4
62.5°	108.6	101.6	96.8	92.9	91.6	89.8	88.5	87.6	86.3	86.8	86.8
65°	90.7	85.0	81.5	78.0	77.6	75.9	75.4	74.6	74.6	74.1	75.0
67.5°	74.6	70.6	67.6	65.4	64.1	64.5	62.8	61.5	61.5	61.0	62.3
70°	59.3	57.1	54.1	51.4	49.7	49.7	47.5	47.1	47.1	47.1	46.6
72.5°	45.8	41.9	40.5	39.7	39.7	39.7	38.8	38.8	38.4	38.8	38.4
75°	34.0	33.6	32.7	32.3	32.3	31.8	31.4	31.4	31.4	31.4	31.4
77.5°	26.6	26.6	25.7	25.3	25.3	25.3	24.9	24.9	24.4	24.4	24.4
80°	19.6	19.6	18.7	18.7	18.7	18.3	18.3	18.3	18.7	18.3	18.3
82.5°	13.5	13.5	13.1	13.5	13.1	12.6	12.6	12.6	12.2	12.6	12.6
85°	7.8	7.8	7.4	7.0	7.4	7.4	7.0	7.4	7.0	7.4	7.0
87.5°	3.1	2.6	2.6	2.6	2.2	2.6	2.2	2.2	2.6	2.2	2.6
90°	8.5	8.8	9.1	9.4	9.6	9.7	9.8	10.0	10.1	10.3	10.1
92.5°	9.4	10.0	10.5	11.0	11.3	11.3	11.4	11.5	11.5	11.6	11.5
95°	11.1	11.7	12.2	12.7	13.0	13.0	13.0	13.0	13.0	13.0	13.0
97.5°	11.5	12.1	12.8	13.4	13.7	13.7	13.8	13.9	13.9	14.0	13.9
100°	11.9	12.5	13.1	13.7	14.0	14.0	14.1	14.2	14.3	14.4	14.3
102.5°	22.8	20.3	17.8	15.3	14.0	14.1	14.2	14.4	14.5	14.7	14.5
105°	61.5	48.0	34.6	21.1	14.4	14.5	14.6	14.7	14.9	15.0	14.9
107.5°	121.3	109.6	97.9	86.2	80.4	75.4	65.5	55.5	45.6	35.6	45.6
110°	151.7	149.2	146.7	144.2	142.9	137.5	126.6	115.7	104.9	94.0	104.9

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	176.5	177.1	177.8	178.5	178.8	178.7	178.6	178.4	178.3	178.1	178.3
115°	197.1	197.8	198.6	199.3	199.7	199.9	200.2	200.5	200.8	201.1	200.8
117.5°	217.0	217.6	218.3	218.9	219.2	219.2	219.3	219.4	219.4	219.5	219.4
120°	236.5	237.1	237.8	238.4	238.7	238.7	238.7	238.7	238.7	238.7	238.7
122.5°	255.8	256.2	256.5	256.9	257.1	257.1	257.2	257.3	257.4	257.5	257.4
125°	273.7	273.8	274.0	274.1	274.2	274.3	274.4	274.6	274.7	274.9	274.7
127.5°	291.9	292.1	292.4	292.6	292.7	292.6	292.5	292.3	292.2	292.0	292.2
130°	308.0	308.3	308.6	308.9	309.1	309.0	308.9	308.7	308.6	308.4	308.6
132.5°	323.4	323.7	324.0	324.3	324.5	324.4	324.2	323.9	323.7	323.5	323.7
135°	339.1	339.3	339.6	339.8	339.9	339.8	339.6	339.3	339.1	338.9	339.1
137.5°	352.9	353.3	353.6	354.0	354.2	354.1	354.0	353.9	353.7	353.6	353.7
140°	366.2	366.5	366.8	367.1	367.2	367.1	367.0	366.9	366.7	366.6	366.7
142.5°	378.7	378.9	379.2	379.4	379.5	379.4	379.2	378.9	378.7	378.5	378.7
145°	390.3	390.4	390.6	390.7	390.8	390.8	390.8	390.8	390.8	390.8	390.8
147.5°	400.9	401.0	401.2	401.3	401.4	401.2	400.8	400.5	400.1	399.7	400.1
150°	410.5	410.6	410.8	410.9	411.0	410.9	410.7	410.4	410.2	410.0	410.2
152.5°	418.8	419.1	419.4	419.7	419.9	419.7	419.3	419.0	418.6	418.2	418.6
155°	426.4	426.8	427.2	427.6	427.8	427.6	427.1	426.6	426.2	425.7	426.2
157.5°	433.3	433.8	434.2	434.7	434.9	434.6	434.0	433.4	432.8	432.2	432.8
160°	439.1	439.6	440.0	440.5	440.7	440.4	439.9	439.4	438.9	438.4	438.9
162.5°	444.3	444.9	445.4	445.9	446.2	446.0	445.5	445.1	444.6	444.2	444.6
165°	448.9	449.5	450.1	450.7	451.0	450.7	450.2	449.7	449.1	448.6	449.1
167.5°	452.6	453.2	453.9	454.5	454.8	454.5	453.9	453.2	452.6	452.0	452.6
170°	455.7	456.3	456.9	457.5	457.8	457.5	456.9	456.3	455.7	455.1	455.7
172.5°	457.8	458.4	459.0	459.6	459.9	459.6	458.9	458.2	457.5	456.8	457.5
175°	459.4	460.0	460.5	461.0	461.3	461.0	460.4	459.7	459.1	458.5	459.1
177.5°	460.2	460.8	461.4	462.0	462.3	461.9	461.2	460.4	459.7	458.9	459.7
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	549.8	547.2	545.4	544.1	542.8	546.7	541.5	535.8	531.9	529.3	528.4
5°	607.3	601.7	596.9	592.9	593.8	593.8	584.7	574.6	565.9	561.1	555.9
7.5°	674.0	667.9	658.3	656.2	654.4	643.5	634.4	616.0	605.1	594.2	584.7
10°	740.3	732.4	723.3	720.2	715.9	702.4	688.4	664.9	651.4	631.3	618.7
12.5°	802.2	792.6	783.5	781.3	774.7	763.0	739.0	714.6	691.5	670.1	647.9
15°	854.1	851.5	837.5	828.8	814.4	798.3	793.0	759.9	730.7	708.5	668.4
17.5°	897.7	885.5	872.4	866.7	861.1	842.3	823.6	789.6	758.2	725.5	699.7
20°	932.6	919.0	909.9	901.6	899.0	877.6	848.0	817.9	783.5	746.8	713.3
22.5°	934.3	932.6	926.5	921.7	916.4	902.5	878.9	841.4	804.8	764.7	720.7
25°	898.1	895.5	912.9	908.6	912.1	906.8	894.2	862.8	820.1	773.0	728.5
27.5°	789.1	815.7	843.2	852.8	859.3	878.1	884.2	866.7	832.3	782.1	732.4
30°	640.9	676.2	720.7	744.7	763.0	797.8	843.2	848.9	832.7	792.6	731.6
32.5°	503.1	535.4	571.1	599.5	623.9	695.4	756.4	800.5	808.3	787.4	733.8
35°	405.5	419.4	453.4	480.5	513.6	574.6	646.6	717.6	765.6	768.2	727.2
37.5°	334.4	341.8	371.5	386.7	406.3	460.0	527.1	620.0	694.5	729.8	708.9
40°	276.8	293.9	310.9	319.6	333.5	370.6	435.1	507.9	600.3	665.7	680.6
42.5°	240.2	247.6	258.5	270.7	279.5	311.7	354.9	421.6	504.9	596.0	637.0
45°	211.9	214.5	225.8	233.7	242.8	265.5	296.0	351.8	425.1	514.9	584.7
47.5°	188.3	193.6	199.7	204.5	210.6	228.0	254.2	294.7	359.2	439.5	514.5
50°	167.4	170.5	178.3	180.5	184.9	197.1	217.1	248.1	301.3	365.4	443.0
52.5°	147.8	153.5	156.5	159.6	163.5	173.5	186.6	211.9	252.0	312.2	378.0
55°	132.5	134.3	138.6	141.3	144.3	151.3	162.6	181.4	212.8	260.7	323.1
57.5°	117.7	117.7	122.1	124.3	127.3	132.5	142.6	157.0	179.6	215.4	272.5
60°	102.0	102.5	105.9	108.6	109.4	114.7	122.9	134.3	151.7	177.9	224.5
62.5°	88.1	90.2	92.0	92.9	95.9	99.0	105.9	113.8	126.0	149.1	182.2
65°	76.3	76.7	78.0	78.9	80.2	83.7	88.9	94.2	104.6	121.6	148.7
67.5°	62.8	64.5	66.3	66.3	67.6	69.3	74.6	78.9	86.8	96.8	115.1
70°	47.1	48.0	50.6	51.9	53.6	56.7	59.3	61.9	68.0	75.4	89.4
72.5°	39.2	39.2	40.1	40.5	40.5	42.7	46.6	49.3	52.3	57.5	67.1
75°	31.4	31.4	32.7	32.3	33.1	34.0	34.4	36.2	37.9	41.9	47.5
77.5°	24.9	25.3	25.3	25.7	25.7	26.2	26.6	27.5	28.3	30.5	33.1
80°	18.3	18.7	18.7	19.2	19.2	19.6	20.1	20.5	21.4	22.2	23.5
82.5°	12.6	13.1	13.1	13.5	13.1	13.5	14.0	14.0	14.4	15.3	15.7
85°	7.4	7.4	7.8	7.4	7.4	7.4	7.8	7.8	8.3	9.6	9.6
87.5°	2.2	2.6	2.2	2.6	2.6	2.6	2.6	3.1	3.1	3.5	3.9
90°	10.0	9.8	9.7	9.6	9.4	9.1	8.8	8.5	8.2	7.2	6.2
92.5°	11.5	11.4	11.3	11.3	11.0	10.5	10.0	9.4	8.9	8.2	7.5
95°	13.0	13.0	13.0	13.0	12.7	12.2	11.7	11.1	10.6	9.8	8.9
97.5°	13.9	13.8	13.7	13.7	13.4	12.8	12.1	11.5	10.9	14.8	18.7
100°	14.2	14.1	14.0	14.0	13.7	13.1	12.5	11.9	11.3	23.1	35.0
102.5°	14.4	14.2	14.1	14.0	15.3	17.8	20.3	22.8	25.3	38.5	51.7
105°	14.7	14.6	14.5	14.4	21.1	34.6	48.0	61.5	74.9	81.7	88.6
107.5°	55.5	65.5	75.4	80.4	86.2	97.9	109.6	121.3	133.0	131.9	130.7
110°	115.7	126.6	137.5	142.9	144.2	146.7	149.2	151.7	154.2	153.4	152.5

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	178.4	178.6	178.7	178.8	178.5	177.8	177.1	176.5	175.8	175.0	174.1
115°	200.5	200.2	199.9	199.7	199.3	198.6	197.8	197.1	196.3	195.6	194.9
117.5°	219.4	219.3	219.2	219.2	218.9	218.3	217.6	217.0	216.4	216.0	215.6
120°	238.7	238.7	238.7	238.7	238.4	237.8	237.1	236.5	235.9	235.7	235.5
122.5°	257.3	257.2	257.1	257.1	256.9	256.5	256.2	255.8	255.4	255.1	254.8
125°	274.6	274.4	274.3	274.2	274.1	274.0	273.8	273.7	273.5	273.2	272.9
127.5°	292.3	292.5	292.6	292.7	292.6	292.4	292.1	291.9	291.7	291.3	290.9
130°	308.7	308.9	309.0	309.1	308.9	308.6	308.3	308.0	307.7	307.4	307.1
132.5°	323.9	324.2	324.4	324.5	324.3	324.0	323.7	323.4	323.1	322.9	322.7
135°	339.3	339.6	339.8	339.9	339.8	339.6	339.3	339.1	338.9	338.6	338.3
137.5°	353.9	354.0	354.1	354.2	354.0	353.6	353.3	352.9	352.5	352.3	352.2
140°	366.9	367.0	367.1	367.2	367.1	366.8	366.5	366.2	365.9	365.7	365.4
142.5°	378.9	379.2	379.4	379.5	379.4	379.2	378.9	378.7	378.5	378.3	378.1
145°	390.8	390.8	390.8	390.8	390.7	390.6	390.4	390.3	390.1	390.0	389.8
147.5°	400.5	400.8	401.2	401.4	401.3	401.2	401.0	400.9	400.7	400.6	400.4
150°	410.4	410.7	410.9	411.0	410.9	410.8	410.6	410.5	410.3	410.1	410.0
152.5°	419.0	419.3	419.7	419.9	419.7	419.4	419.1	418.8	418.5	418.4	418.4
155°	426.6	427.1	427.6	427.8	427.6	427.2	426.8	426.4	426.0	425.9	425.9
157.5°	433.4	434.0	434.6	434.9	434.7	434.2	433.8	433.3	432.9	433.0	433.0
160°	439.4	439.9	440.4	440.7	440.5	440.0	439.6	439.1	438.7	438.8	438.8
162.5°	445.1	445.5	446.0	446.2	445.9	445.4	444.9	444.3	443.8	443.9	444.0
165°	449.7	450.2	450.7	451.0	450.7	450.1	449.5	448.9	448.3	448.4	448.4
167.5°	453.2	453.9	454.5	454.8	454.5	453.9	453.2	452.6	452.0	452.0	452.0
170°	456.3	456.9	457.5	457.8	457.5	456.9	456.3	455.7	455.1	455.1	455.1
172.5°	458.2	458.9	459.6	459.9	459.6	459.0	458.4	457.8	457.2	457.1	457.0
175°	459.7	460.4	461.0	461.3	461.0	460.5	460.0	459.4	458.9	458.8	458.7
177.5°	460.4	461.2	461.9	462.3	462.0	461.4	460.8	460.2	459.6	459.5	459.4
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	527.1	524.9	522.7	522.7	517.9	513.6	511.4	512.3	509.7	506.2	502.7
5°	550.2	541.5	539.7	534.9	528.4	519.3	514.5	510.1	504.9	497.9	491.4
7.5°	571.6	560.2	554.1	549.3	536.7	524.0	513.6	506.6	497.5	487.0	479.1
10°	599.5	578.5	572.0	561.1	543.2	525.4	513.1	501.8	489.2	477.0	466.5
12.5°	621.7	597.7	585.5	574.6	551.5	528.8	508.4	494.4	479.1	465.6	452.1
15°	647.0	620.0	598.6	585.5	556.3	528.8	505.7	486.1	469.1	452.5	440.8
17.5°	659.2	625.2	615.6	596.9	554.6	527.1	498.8	477.8	457.3	438.2	424.2
20°	678.4	638.7	614.7	602.1	564.6	524.0	490.9	466.9	445.6	425.1	410.3
22.5°	679.7	636.5	620.8	596.9	550.6	514.9	483.9	454.7	429.9	410.7	395.4
25°	676.6	632.6	610.8	591.6	553.3	509.7	470.0	441.2	416.8	394.6	376.7
27.5°	675.3	621.3	600.8	581.6	538.4	494.4	461.7	429.0	401.1	381.5	363.2
30°	673.6	609.1	584.2	562.0	522.3	482.6	443.4	415.1	388.5	363.6	345.3
32.5°	662.3	592.5	567.2	543.7	500.9	461.3	430.3	400.2	371.5	348.3	331.8
35°	658.8	577.2	544.1	518.8	477.0	441.6	409.0	384.1	357.1	334.0	314.3
37.5°	648.7	561.5	525.8	493.5	449.9	416.4	392.4	367.5	341.4	316.5	300.8
40°	631.3	543.2	502.7	469.6	424.6	390.6	368.4	350.1	324.4	302.1	283.0
42.5°	605.6	524.5	480.9	446.0	396.3	364.5	346.2	328.7	306.9	283.8	268.1
45°	575.9	499.6	459.1	420.3	369.7	338.8	319.6	309.1	289.1	269.4	251.1
47.5°	535.4	473.9	433.8	393.7	342.2	312.2	296.9	286.4	272.5	251.1	236.3
50°	484.4	440.8	402.8	367.1	315.2	286.4	271.2	263.3	251.6	236.3	221.9
52.5°	427.7	402.4	371.0	337.9	287.7	260.7	246.8	240.7	231.9	217.6	205.3
55°	370.6	359.7	338.3	305.6	259.0	236.7	224.5	216.7	210.1	199.7	189.2
57.5°	319.6	314.3	299.5	274.2	235.0	211.9	201.4	196.2	191.0	183.1	172.6
60°	266.8	272.5	257.2	244.6	208.8	188.8	179.6	174.0	171.3	164.4	157.8
62.5°	221.0	226.3	217.6	208.0	182.7	164.8	159.1	153.9	152.2	146.1	139.5
65°	179.6	186.2	179.6	174.4	159.1	144.3	137.3	134.7	133.0	129.1	123.8
67.5°	143.0	149.5	146.5	139.9	135.2	122.9	119.0	116.4	115.5	112.5	108.1
70°	107.7	116.8	117.7	113.8	109.4	103.8	101.1	100.3	98.1	95.5	92.9
72.5°	77.6	88.1	88.5	88.5	85.9	85.9	83.3	82.0	82.0	79.3	76.3
75°	57.1	64.1	65.0	65.8	67.1	68.4	66.7	66.7	66.3	63.7	62.3
77.5°	37.9	44.0	46.2	49.3	51.0	51.0	51.9	52.8	51.9	50.6	49.7
80°	24.4	28.8	31.4	33.1	35.8	37.1	38.4	38.8	37.9	37.5	36.2
82.5°	16.1	17.4	18.7	20.9	24.0	26.2	26.2	25.7	26.6	26.2	25.7
85°	9.2	10.0	10.5	10.9	12.6	14.8	15.3	15.7	16.6	15.7	14.8
87.5°	3.5	3.9	3.9	3.9	4.8	5.2	6.5	8.3	7.8	7.0	7.0
90°	5.3	4.3	3.8	3.4	2.6	1.9	1.1	0.3	1.1	1.9	2.6
92.5°	6.8	6.1	5.8	6.0	6.5	7.0	7.4	7.9	7.4	7.0	6.5
95°	8.1	7.2	6.8	8.4	11.5	14.6	17.8	20.9	17.8	14.6	11.5
97.5°	22.6	26.5	28.4	29.5	31.6	33.7	35.9	38.0	35.9	33.7	31.6
100°	46.8	58.7	64.6	63.8	62.3	60.8	59.3	57.8	59.3	60.8	62.3
102.5°	65.0	78.2	84.8	84.3	83.3	82.4	81.4	80.4	81.4	82.4	83.3
105°	95.4	102.3	105.7	105.3	104.4	103.6	102.7	101.9	102.7	103.6	104.4
107.5°	129.6	128.5	127.9	127.6	126.9	126.2	125.5	124.8	125.5	126.2	126.9
110°	151.7	150.8	150.4	150.1	149.5	148.9	148.3	147.7	148.3	148.9	149.5

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	173.3	172.4	172.0	171.7	171.2	170.7	170.1	169.6	170.1	170.7	171.2
115°	194.2	193.5	193.2	193.0	192.5	192.0	191.6	191.1	191.6	192.0	192.5
117.5°	215.3	214.9	214.7	214.4	213.9	213.4	212.8	212.3	212.8	213.4	213.9
120°	235.2	235.0	234.9	234.6	233.9	233.2	232.5	231.8	232.5	233.2	233.9
122.5°	254.5	254.2	254.1	253.8	253.3	252.8	252.2	251.7	252.2	252.8	253.3
125°	272.6	272.3	272.2	271.9	271.3	270.6	270.0	269.4	270.0	270.6	271.3
127.5°	290.6	290.2	290.0	289.7	289.1	288.4	287.8	287.2	287.8	288.4	289.1
130°	306.8	306.5	306.4	306.1	305.5	304.8	304.2	303.6	304.2	304.8	305.5
132.5°	322.4	322.2	322.1	321.8	321.2	320.6	320.0	319.4	320.0	320.6	321.2
135°	338.0	337.7	337.5	337.3	336.8	336.3	335.9	335.4	335.9	336.3	336.8
137.5°	352.0	351.9	351.8	351.5	350.9	350.3	349.7	349.1	349.7	350.3	350.9
140°	365.2	364.9	364.8	364.6	364.1	363.7	363.2	362.8	363.2	363.7	364.1
142.5°	377.8	377.6	377.5	377.3	376.8	376.3	375.9	375.4	375.9	376.3	376.8
145°	389.7	389.6	389.5	389.2	388.7	388.2	387.6	387.1	387.6	388.2	388.7
147.5°	400.3	400.2	400.1	399.9	399.5	399.2	398.8	398.4	398.8	399.2	399.5
150°	409.8	409.7	409.6	409.5	409.3	409.0	408.8	408.6	408.8	409.0	409.3
152.5°	418.3	418.2	418.2	418.2	418.1	418.0	417.9	417.8	417.9	418.0	418.1
155°	425.8	425.7	425.7	425.8	425.9	426.1	426.2	426.4	426.2	426.1	425.9
157.5°	433.1	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2
160°	438.9	439.0	439.0	439.0	439.1	439.2	439.3	439.4	439.3	439.2	439.1
162.5°	444.1	444.2	444.2	444.3	444.5	444.8	445.0	445.2	445.0	444.8	444.5
165°	448.5	448.6	448.6	448.7	448.9	449.2	449.4	449.6	449.4	449.2	448.9
167.5°	452.0	452.0	452.0	452.2	452.5	452.8	453.1	453.4	453.1	452.8	452.5
170°	455.1	455.1	455.1	455.3	455.6	455.9	456.2	456.5	456.2	455.9	455.6
172.5°	456.9	456.8	456.8	457.0	457.4	457.7	458.1	458.5	458.1	457.7	457.4
175°	458.6	458.5	458.5	458.7	459.1	459.4	459.8	460.2	459.8	459.4	459.1
177.5°	459.3	459.2	459.2	459.4	459.8	460.1	460.5	460.9	460.5	460.1	459.8
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	502.7	500.5	499.6	497.5	492.2	488.7	484.8	482.2	482.6	480.5	481.8
5°	487.0	486.6	483.5	479.1	471.7	467.8	460.8	457.3	455.6	456.0	453.4
7.5°	473.9	470.0	467.8	460.8	453.9	445.6	439.9	436.9	434.2	431.6	429.9
10°	459.1	455.6	452.1	444.7	435.1	427.3	419.4	416.4	412.4	410.7	409.4
12.5°	443.4	441.2	436.9	428.1	417.2	409.8	400.7	398.9	393.7	390.2	389.3
15°	429.0	427.7	419.8	409.8	398.9	391.5	383.7	378.4	369.7	371.5	368.4
17.5°	413.7	408.1	403.3	389.8	384.5	373.2	364.0	361.4	355.3	351.4	347.5
20°	396.7	393.3	387.2	378.4	365.8	352.7	345.7	341.4	337.9	331.8	330.0
22.5°	380.6	376.3	371.0	359.7	348.8	337.9	328.3	324.4	320.0	315.7	313.0
25°	368.0	361.4	355.8	341.8	330.9	321.8	315.7	309.1	303.0	300.4	299.5
27.5°	348.3	344.4	338.8	325.7	315.7	305.6	300.0	295.6	289.1	286.0	283.4
30°	335.7	327.9	321.3	310.9	300.8	289.9	284.7	279.5	275.5	271.6	268.6
32.5°	318.7	312.6	307.4	296.9	286.9	276.8	271.2	263.3	261.2	258.1	254.6
35°	302.1	298.2	292.5	281.2	270.3	263.3	257.2	249.8	247.2	245.0	242.0
37.5°	286.4	280.8	276.8	265.9	256.4	248.1	243.3	237.2	235.4	232.8	230.6
40°	272.9	267.3	263.3	252.4	242.4	233.7	230.6	224.5	221.9	218.9	217.6
42.5°	257.7	252.9	247.6	239.8	229.3	220.6	214.5	211.0	207.5	206.2	203.6
45°	241.5	237.2	233.2	224.5	213.6	207.5	202.3	197.5	194.9	192.7	191.0
47.5°	227.6	223.7	218.4	208.8	200.1	194.4	189.2	184.4	181.8	179.2	177.0
50°	211.5	209.3	203.6	194.4	186.2	179.6	174.8	170.5	168.7	165.7	162.2
52.5°	197.1	193.1	188.3	180.9	173.5	165.7	159.1	156.5	153.5	151.7	148.7
55°	180.1	177.4	172.2	165.7	157.8	151.3	146.5	143.0	139.1	137.3	133.4
57.5°	165.7	160.9	158.3	150.0	142.6	136.0	132.5	129.1	124.7	122.1	120.3
60°	150.0	145.6	141.7	134.7	129.5	122.5	117.3	114.2	111.2	107.7	105.9
62.5°	134.7	131.2	126.4	120.8	114.2	108.6	104.6	100.3	98.5	95.0	93.7
65°	118.2	115.5	111.6	105.1	99.8	95.0	91.1	87.6	85.9	84.6	83.7
67.5°	103.3	99.8	97.2	91.6	85.9	82.0	79.8	77.6	75.4	74.1	72.8
70°	88.1	85.5	82.8	77.6	73.7	70.2	68.4	66.7	65.4	64.1	62.8
72.5°	72.4	71.1	68.4	65.0	61.9	59.3	58.0	55.8	54.5	52.3	51.4
75°	59.7	57.5	56.2	53.2	50.6	48.4	46.6	44.0	42.3	41.4	41.0
77.5°	47.1	46.2	44.5	41.9	40.5	38.4	35.8	34.9	34.0	34.0	33.6
80°	35.3	34.0	32.7	30.5	29.2	27.5	27.5	27.5	27.0	27.5	27.0
82.5°	24.0	23.1	22.2	20.9	20.5	20.5	20.9	20.9	20.9	20.9	20.9
85°	14.0	14.0	14.0	14.4	14.0	14.0	14.4	14.8	14.4	14.4	14.0
87.5°	6.5	6.5	7.0	7.0	7.4	7.4	7.4	7.4	7.4	7.4	7.8
90°	3.4	3.8	4.3	5.3	6.2	7.2	8.2	8.5	8.8	9.1	9.4
92.5°	6.0	5.8	6.1	6.8	7.5	8.2	8.9	9.4	10.0	10.5	11.0
95°	8.4	6.8	7.2	8.1	8.9	9.8	10.6	11.1	11.7	12.2	12.7
97.5°	29.5	28.4	26.5	22.6	18.7	14.8	10.9	11.5	12.1	12.8	13.4
100°	63.8	64.6	58.7	46.8	35.0	23.1	11.3	11.9	12.5	13.1	13.7
102.5°	84.3	84.8	78.2	65.0	51.7	38.5	25.3	22.8	20.3	17.8	15.3
105°	105.3	105.7	102.3	95.4	88.6	81.7	74.9	61.5	48.0	34.6	21.1
107.5°	127.6	127.9	128.5	129.6	130.7	131.9	133.0	121.3	109.6	97.9	86.2
110°	150.1	150.4	150.8	151.7	152.5	153.4	154.2	151.7	149.2	146.7	144.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	171.7	172.0	172.4	173.3	174.1	175.0	175.8	176.5	177.1	177.8	178.5
115°	193.0	193.2	193.5	194.2	194.9	195.6	196.3	197.1	197.8	198.6	199.3
117.5°	214.4	214.7	214.9	215.3	215.6	216.0	216.4	217.0	217.6	218.3	218.9
120°	234.6	234.9	235.0	235.2	235.5	235.7	235.9	236.5	237.1	237.8	238.4
122.5°	253.8	254.1	254.2	254.5	254.8	255.1	255.4	255.8	256.2	256.5	256.9
125°	271.9	272.2	272.3	272.6	272.9	273.2	273.5	273.7	273.8	274.0	274.1
127.5°	289.7	290.0	290.2	290.6	290.9	291.3	291.7	291.9	292.1	292.4	292.6
130°	306.1	306.4	306.5	306.8	307.1	307.4	307.7	308.0	308.3	308.6	308.9
132.5°	321.8	322.1	322.2	322.4	322.7	322.9	323.1	323.4	323.7	324.0	324.3
135°	337.3	337.5	337.7	338.0	338.3	338.6	338.9	339.1	339.3	339.6	339.8
137.5°	351.5	351.8	351.9	352.0	352.2	352.3	352.5	352.9	353.3	353.6	354.0
140°	364.6	364.8	364.9	365.2	365.4	365.7	365.9	366.2	366.5	366.8	367.1
142.5°	377.3	377.5	377.6	377.8	378.1	378.3	378.5	378.7	378.9	379.2	379.4
145°	389.2	389.5	389.6	389.7	389.8	390.0	390.1	390.3	390.4	390.6	390.7
147.5°	399.9	400.1	400.2	400.3	400.4	400.6	400.7	400.9	401.0	401.2	401.3
150°	409.5	409.6	409.7	409.8	410.0	410.1	410.3	410.5	410.6	410.8	410.9
152.5°	418.2	418.2	418.2	418.3	418.4	418.4	418.5	418.8	419.1	419.4	419.7
155°	425.8	425.7	425.7	425.8	425.9	425.9	426.0	426.4	426.8	427.2	427.6
157.5°	433.2	433.2	433.2	433.1	433.0	433.0	432.9	433.3	433.8	434.2	434.7
160°	439.0	439.0	439.0	438.9	438.8	438.8	438.7	439.1	439.6	440.0	440.5
162.5°	444.3	444.2	444.2	444.1	444.0	443.9	443.8	444.3	444.9	445.4	445.9
165°	448.7	448.6	448.6	448.5	448.4	448.4	448.3	448.9	449.5	450.1	450.7
167.5°	452.2	452.0	452.0	452.0	452.0	452.0	452.0	452.6	453.2	453.9	454.5
170°	455.3	455.1	455.1	455.1	455.1	455.1	455.1	455.7	456.3	456.9	457.5
172.5°	457.0	456.8	456.8	456.9	457.0	457.1	457.2	457.8	458.4	459.0	459.6
175°	458.7	458.5	458.5	458.6	458.7	458.8	458.9	459.4	460.0	460.5	461.0
177.5°	459.4	459.2	459.2	459.3	459.4	459.5	459.6	460.2	460.8	461.4	462.0
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	481.3	481.8	480.5	477.8	477.4	478.3	480.9	480.0	477.8	481.8	478.3
5°	454.7	452.5	451.7	452.5	449.9	448.6	451.2	449.9	451.2	451.7	453.0
7.5°	429.0	429.4	426.8	427.3	423.8	424.6	424.6	424.6	426.0	426.8	428.6
10°	406.8	407.6	404.6	405.0	402.4	400.7	402.0	404.6	404.6	404.6	405.5
12.5°	388.9	385.0	382.8	382.4	379.3	378.4	381.0	381.9	384.1	384.1	385.4
15°	366.7	365.8	364.0	364.0	356.6	358.4	359.2	362.3	366.7	363.2	364.0
17.5°	346.6	344.4	342.2	341.4	340.5	337.9	341.4	340.9	343.6	344.0	345.3
20°	328.7	327.0	322.6	323.1	323.9	320.0	322.2	322.2	324.8	327.4	330.5
22.5°	311.3	309.5	307.4	308.2	305.6	304.8	304.8	306.9	310.0	312.2	311.7
25°	297.8	294.7	293.4	292.1	290.8	291.7	290.4	292.5	294.7	296.0	294.7
27.5°	282.5	281.2	278.6	277.3	275.1	276.0	276.8	278.6	279.9	279.9	281.2
30°	267.7	265.9	265.1	263.8	263.8	262.0	262.5	264.2	265.5	266.8	268.6
32.5°	253.3	252.0	250.7	250.7	249.8	249.4	248.9	251.6	251.6	254.2	254.2
35°	241.5	239.4	239.4	237.2	238.0	237.6	236.7	238.5	238.9	240.7	240.2
37.5°	228.5	228.5	227.6	225.4	223.7	224.1	226.3	226.3	227.6	227.1	228.5
40°	215.4	214.5	214.5	213.2	212.8	212.3	212.8	213.2	215.4	214.9	215.4
42.5°	202.3	202.7	200.6	200.6	200.6	199.2	199.7	200.1	201.0	201.9	203.2
45°	189.7	188.8	188.3	187.5	186.6	187.0	186.6	188.3	187.9	188.8	190.1
47.5°	176.1	174.8	174.4	172.6	172.6	173.5	173.1	174.4	174.8	176.1	175.3
50°	163.1	161.3	160.0	160.4	157.8	158.7	158.7	160.0	161.3	161.7	162.6
52.5°	147.8	147.4	146.9	144.7	144.3	143.9	144.3	144.7	146.5	147.8	148.2
55°	133.0	132.5	129.9	129.1	127.7	127.7	128.6	129.1	132.1	132.5	134.3
57.5°	119.5	118.2	115.1	114.7	114.7	114.7	113.4	115.1	116.0	118.2	118.2
60°	104.6	104.6	102.0	102.0	102.5	102.0	102.0	102.5	102.5	104.2	105.1
62.5°	92.9	92.4	92.4	91.6	91.1	91.6	91.1	91.1	91.6	92.9	94.2
65°	82.4	82.0	81.5	81.1	80.2	80.2	80.7	81.5	81.5	82.4	82.8
67.5°	72.4	72.4	71.5	71.5	71.1	70.6	71.1	70.6	72.4	72.4	72.8
70°	62.3	61.9	60.6	60.2	58.9	59.3	59.3	60.6	61.0	61.9	62.8
72.5°	50.1	50.1	49.3	48.4	48.8	48.0	48.0	48.4	48.4	49.7	50.1
75°	41.4	40.5	40.1	40.5	40.1	41.0	40.1	40.1	41.0	41.0	41.0
77.5°	34.0	34.0	33.6	33.6	34.0	33.6	34.0	34.0	34.0	33.6	34.0
80°	27.9	27.5	27.5	27.5	27.0	27.0	27.0	27.0	27.0	27.0	27.0
82.5°	20.9	20.9	20.5	20.9	20.9	20.5	20.9	20.5	20.5	20.9	20.9
85°	14.0	14.8	14.0	14.0	14.4	14.4	14.8	14.4	14.8	14.0	14.4
87.5°	7.4	7.8	7.8	7.4	7.4	7.8	7.8	7.8	8.3	7.4	7.8
90°	9.6	9.7	9.8	10.0	10.1	10.3	10.1	10.0	9.8	9.7	9.6
92.5°	11.3	11.3	11.4	11.5	11.5	11.6	11.5	11.5	11.4	11.3	11.3
95°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
97.5°	13.7	13.7	13.8	13.9	13.9	14.0	13.9	13.9	13.8	13.7	13.7
100°	14.0	14.0	14.1	14.2	14.3	14.4	14.3	14.2	14.1	14.0	14.0
102.5°	14.0	14.1	14.2	14.4	14.5	14.7	14.5	14.4	14.2	14.1	14.0
105°	14.4	14.5	14.6	14.7	14.9	15.0	14.9	14.7	14.6	14.5	14.4
107.5°	80.4	75.4	65.5	55.5	45.6	35.6	45.6	55.5	65.5	75.4	80.4
110°	142.9	137.5	126.6	115.7	104.9	94.0	104.9	115.7	126.6	137.5	142.9

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	178.8	178.7	178.6	178.4	178.3	178.1	178.3	178.4	178.6	178.7	178.8
115°	199.7	199.9	200.2	200.5	200.8	201.1	200.8	200.5	200.2	199.9	199.7
117.5°	219.2	219.2	219.3	219.4	219.4	219.5	219.4	219.4	219.3	219.2	219.2
120°	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7
122.5°	257.1	257.1	257.2	257.3	257.4	257.5	257.4	257.3	257.2	257.1	257.1
125°	274.2	274.3	274.4	274.6	274.7	274.9	274.7	274.6	274.4	274.3	274.2
127.5°	292.7	292.6	292.5	292.3	292.2	292.0	292.2	292.3	292.5	292.6	292.7
130°	309.1	309.0	308.9	308.7	308.6	308.4	308.6	308.7	308.9	309.0	309.1
132.5°	324.5	324.4	324.2	323.9	323.7	323.5	323.7	323.9	324.2	324.4	324.5
135°	339.9	339.8	339.6	339.3	339.1	338.9	339.1	339.3	339.6	339.8	339.9
137.5°	354.2	354.1	354.0	353.9	353.7	353.6	353.7	353.9	354.0	354.1	354.2
140°	367.2	367.1	367.0	366.9	366.7	366.6	366.7	366.9	367.0	367.1	367.2
142.5°	379.5	379.4	379.2	378.9	378.7	378.5	378.7	378.9	379.2	379.4	379.5
145°	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8
147.5°	401.4	401.2	400.8	400.5	400.1	399.7	400.1	400.5	400.8	401.2	401.4
150°	411.0	410.9	410.7	410.4	410.2	410.0	410.2	410.4	410.7	410.9	411.0
152.5°	419.9	419.7	419.3	419.0	418.6	418.2	418.6	419.0	419.3	419.7	419.9
155°	427.8	427.6	427.1	426.6	426.2	425.7	426.2	426.6	427.1	427.6	427.8
157.5°	434.9	434.6	434.0	433.4	432.8	432.2	432.8	433.4	434.0	434.6	434.9
160°	440.7	440.4	439.9	439.4	438.9	438.4	438.9	439.4	439.9	440.4	440.7
162.5°	446.2	446.0	445.5	445.1	444.6	444.2	444.6	445.1	445.5	446.0	446.2
165°	451.0	450.7	450.2	449.7	449.1	448.6	449.1	449.7	450.2	450.7	451.0
167.5°	454.8	454.5	453.9	453.2	452.6	452.0	452.6	453.2	453.9	454.5	454.8
170°	457.8	457.5	456.9	456.3	455.7	455.1	455.7	456.3	456.9	457.5	457.8
172.5°	459.9	459.6	458.9	458.2	457.5	456.8	457.5	458.2	458.9	459.6	459.9
175°	461.3	461.0	460.4	459.7	459.1	458.5	459.1	459.7	460.4	461.0	461.3
177.5°	462.3	461.9	461.2	460.4	459.7	458.9	459.7	460.4	461.2	461.9	462.3
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	481.8	483.5	481.8	478.3	481.8	483.9	486.1	489.6	491.4	491.4	494.0
5°	454.3	457.8	456.5	455.6	459.1	461.3	464.8	469.1	473.9	477.0	480.5
7.5°	429.9	432.1	434.2	434.2	437.7	442.5	447.8	453.0	459.1	463.4	466.1
10°	408.5	410.3	411.6	413.3	418.5	423.8	430.7	437.3	442.5	447.3	451.7
12.5°	388.0	390.6	393.7	395.0	398.9	405.5	412.0	419.8	428.1	432.9	437.3
15°	368.4	369.7	373.2	377.1	380.6	387.6	395.9	404.2	411.1	418.5	422.5
17.5°	348.3	348.8	357.9	355.8	367.1	373.6	378.0	385.8	397.2	403.3	409.4
20°	328.7	333.1	337.0	339.2	345.3	352.7	365.4	371.5	380.6	386.3	391.5
22.5°	313.5	320.0	320.0	325.2	328.3	335.3	344.4	356.2	366.2	370.1	377.6
25°	300.0	303.0	308.2	310.0	315.7	321.8	327.9	340.5	351.4	356.6	361.9
27.5°	282.5	286.4	293.4	293.4	300.8	307.4	314.8	323.1	334.0	341.4	347.0
30°	269.0	272.9	276.0	280.8	283.8	289.9	303.0	309.1	318.7	325.2	332.2
32.5°	256.4	259.4	262.0	267.3	270.7	277.7	284.7	295.6	303.9	310.0	317.4
35°	242.4	245.5	248.9	252.9	258.1	264.6	271.2	280.3	288.6	294.3	300.4
37.5°	229.3	231.5	236.7	239.4	243.7	249.8	258.1	267.7	275.1	279.5	285.6
40°	216.7	218.4	222.4	227.1	230.2	235.0	243.7	252.0	261.2	266.4	271.2
42.5°	203.2	205.3	208.8	213.6	218.4	223.7	228.5	238.0	246.3	250.7	255.9
45°	191.4	192.7	195.3	200.1	204.9	208.8	216.2	225.0	232.8	236.3	242.0
47.5°	177.4	178.8	182.7	184.9	190.1	195.3	202.7	211.5	218.4	221.9	227.1
50°	163.1	164.4	167.0	171.8	175.3	180.9	187.5	194.9	203.6	208.4	211.5
52.5°	149.1	151.7	153.9	157.8	162.2	167.9	174.0	180.9	188.3	193.1	196.6
55°	135.2	137.3	139.9	142.1	147.4	152.6	159.6	166.1	172.6	177.0	180.9
57.5°	119.5	122.5	125.1	129.5	133.4	137.8	145.6	150.8	158.7	161.7	165.2
60°	105.9	109.0	111.2	114.7	118.2	123.8	129.1	135.6	142.1	146.1	150.4
62.5°	94.6	95.9	97.2	100.7	104.2	109.4	114.7	121.2	128.2	130.4	133.8
65°	83.3	84.6	86.8	89.8	92.4	95.5	101.1	106.4	112.9	116.4	117.7
67.5°	73.7	75.0	75.4	77.6	79.8	83.3	86.3	91.6	97.7	99.8	102.5
70°	62.8	65.0	65.4	67.1	68.0	70.2	73.7	77.6	82.4	86.3	88.5
72.5°	50.1	53.2	54.1	56.7	58.0	60.2	62.8	65.8	68.9	70.6	72.4
75°	41.0	41.9	42.3	44.5	46.6	49.7	51.0	52.8	55.4	57.5	59.3
77.5°	34.0	34.4	34.9	34.9	35.3	37.1	39.7	41.9	43.6	44.5	45.8
80°	27.5	27.0	27.0	27.5	27.5	27.5	28.3	31.4	32.3	34.4	34.0
82.5°	21.4	20.5	20.9	20.5	20.5	20.5	20.5	20.9	20.9	22.2	23.1
85°	14.0	14.4	14.0	14.0	13.5	14.0	13.5	13.5	13.1	13.1	12.6
87.5°	7.4	7.8	7.4	7.4	7.0	7.4	7.0	7.0	6.5	6.5	5.7
90°	9.4	9.1	8.8	8.5	8.2	7.2	6.2	5.3	4.3	3.8	3.4
92.5°	11.0	10.5	10.0	9.4	8.9	8.2	7.5	6.8	6.1	5.8	6.0
95°	12.7	12.2	11.7	11.1	10.6	9.8	8.9	8.1	7.2	6.8	8.4
97.5°	13.4	12.8	12.1	11.5	10.9	14.8	18.7	22.6	26.5	28.4	29.5
100°	13.7	13.1	12.5	11.9	11.3	23.1	35.0	46.8	58.7	64.6	63.8
102.5°	15.3	17.8	20.3	22.8	25.3	38.5	51.7	65.0	78.2	84.8	84.3
105°	21.1	34.6	48.0	61.5	74.9	81.7	88.6	95.4	102.3	105.7	105.3
107.5°	86.2	97.9	109.6	121.3	133.0	131.9	130.7	129.6	128.5	127.9	127.6
110°	144.2	146.7	149.2	151.7	154.2	153.4	152.5	151.7	150.8	150.4	150.1

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CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	178.5	177.8	177.1	176.5	175.8	175.0	174.1	173.3	172.4	172.0	171.7
115°	199.3	198.6	197.8	197.1	196.3	195.6	194.9	194.2	193.5	193.2	193.0
117.5°	218.9	218.3	217.6	217.0	216.4	216.0	215.6	215.3	214.9	214.7	214.4
120°	238.4	237.8	237.1	236.5	235.9	235.7	235.5	235.2	235.0	234.9	234.6
122.5°	256.9	256.5	256.2	255.8	255.4	255.1	254.8	254.5	254.2	254.1	253.8
125°	274.1	274.0	273.8	273.7	273.5	273.2	272.9	272.6	272.3	272.2	271.9
127.5°	292.6	292.4	292.1	291.9	291.7	291.3	290.9	290.6	290.2	290.0	289.7
130°	308.9	308.6	308.3	308.0	307.7	307.4	307.1	306.8	306.5	306.4	306.1
132.5°	324.3	324.0	323.7	323.4	323.1	322.9	322.7	322.4	322.2	322.1	321.8
135°	339.8	339.6	339.3	339.1	338.9	338.6	338.3	338.0	337.7	337.5	337.3
137.5°	354.0	353.6	353.3	352.9	352.5	352.3	352.2	352.0	351.9	351.8	351.5
140°	367.1	366.8	366.5	366.2	365.9	365.7	365.4	365.2	364.9	364.8	364.6
142.5°	379.4	379.2	378.9	378.7	378.5	378.3	378.1	377.8	377.6	377.5	377.3
145°	390.7	390.6	390.4	390.3	390.1	390.0	389.8	389.7	389.6	389.5	389.2
147.5°	401.3	401.2	401.0	400.9	400.7	400.6	400.4	400.3	400.2	400.1	399.9
150°	410.9	410.8	410.6	410.5	410.3	410.1	410.0	409.8	409.7	409.6	409.5
152.5°	419.7	419.4	419.1	418.8	418.5	418.4	418.4	418.3	418.2	418.2	418.2
155°	427.6	427.2	426.8	426.4	426.0	425.9	425.9	425.8	425.7	425.7	425.8
157.5°	434.7	434.2	433.8	433.3	432.9	433.0	433.0	433.1	433.2	433.2	433.2
160°	440.5	440.0	439.6	439.1	438.7	438.8	438.8	438.9	439.0	439.0	439.0
162.5°	445.9	445.4	444.9	444.3	443.8	443.9	444.0	444.1	444.2	444.2	444.3
165°	450.7	450.1	449.5	448.9	448.3	448.4	448.4	448.5	448.6	448.6	448.7
167.5°	454.5	453.9	453.2	452.6	452.0	452.0	452.0	452.0	452.0	452.0	452.2
170°	457.5	456.9	456.3	455.7	455.1	455.1	455.1	455.1	455.1	455.1	455.3
172.5°	459.6	459.0	458.4	457.8	457.2	457.1	457.0	456.9	456.8	456.8	457.0
175°	461.0	460.5	460.0	459.4	458.9	458.8	458.7	458.6	458.5	458.5	458.7
177.5°	462.0	461.4	460.8	460.2	459.6	459.5	459.4	459.3	459.2	459.2	459.4
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	509.2	509.2	509.2	509.2
2.5°	496.1	499.2	505.3	510.5
5°	485.7	490.5	499.6	508.8
7.5°	473.0	480.5	492.2	504.9
10°	460.8	470.4	484.8	499.6
12.5°	448.6	458.7	473.9	493.1
15°	434.2	444.7	463.0	486.1
17.5°	421.6	435.5	452.1	475.2
20°	408.1	418.5	439.9	464.3
22.5°	391.1	408.5	428.6	454.3
25°	377.6	392.8	412.9	442.1
27.5°	361.0	378.9	403.3	429.0
30°	347.5	362.3	385.0	415.9
32.5°	331.8	349.2	372.8	403.3
35°	317.8	332.7	354.9	385.8
37.5°	301.3	317.4	342.2	369.7
40°	286.9	302.6	326.1	351.8
42.5°	269.4	286.0	309.5	331.3
45°	255.5	270.7	289.5	309.5
47.5°	238.5	254.6	272.9	286.9
50°	223.2	238.0	252.4	264.2
52.5°	206.7	220.2	233.2	242.0
55°	191.4	201.9	212.3	218.4
57.5°	173.5	183.5	192.3	195.8
60°	157.8	166.1	171.8	175.7
62.5°	141.3	147.4	151.7	153.9
65°	125.1	129.5	131.7	133.8
67.5°	108.6	112.5	113.8	116.4
70°	91.1	95.5	96.4	97.7
72.5°	78.0	78.0	79.8	81.5
75°	62.3	63.2	64.1	64.1
77.5°	48.8	48.8	49.7	50.1
80°	35.8	36.2	36.2	35.8
82.5°	24.4	25.3	24.4	24.0
85°	13.5	15.3	14.4	14.4
87.5°	5.7	5.7	6.5	5.7
90°	2.6	1.9	1.1	0.3
92.5°	6.5	7.0	7.4	7.9
95°	11.5	14.6	17.8	20.9
97.5°	31.6	33.7	35.9	38.0
100°	62.3	60.8	59.3	57.8
102.5°	83.3	82.4	81.4	80.4
105°	104.4	103.6	102.7	101.9
107.5°	126.9	126.2	125.5	124.8
110°	149.5	148.9	148.3	147.7



TEST NUMBER: P1010893

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	171.2	170.7	170.1	169.6
115°	192.5	192.0	191.6	191.1
117.5°	213.9	213.4	212.8	212.3
120°	233.9	233.2	232.5	231.8
122.5°	253.3	252.8	252.2	251.7
125°	271.3	270.6	270.0	269.4
127.5°	289.1	288.4	287.8	287.2
130°	305.5	304.8	304.2	303.6
132.5°	321.2	320.6	320.0	319.4
135°	336.8	336.3	335.9	335.4
137.5°	350.9	350.3	349.7	349.1
140°	364.1	363.7	363.2	362.8
142.5°	376.8	376.3	375.9	375.4
145°	388.7	388.2	387.6	387.1
147.5°	399.5	399.2	398.8	398.4
150°	409.3	409.0	408.8	408.6
152.5°	418.1	418.0	417.9	417.8
155°	425.9	426.1	426.2	426.4
157.5°	433.2	433.2	433.2	433.2
160°	439.1	439.2	439.3	439.4
162.5°	444.5	444.8	445.0	445.2
165°	448.9	449.2	449.4	449.6
167.5°	452.5	452.8	453.1	453.4
170°	455.6	455.9	456.2	456.5
172.5°	457.4	457.7	458.1	458.5
175°	459.1	459.4	459.8	460.2
177.5°	459.8	460.1	460.5	460.9
180°	460.2	460.2	460.2	460.2

(END OF REPORT)