

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: P1010892

Luminaire Tested: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010892
REPORT IS A COMBINATION OF REPORTS P993208 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_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

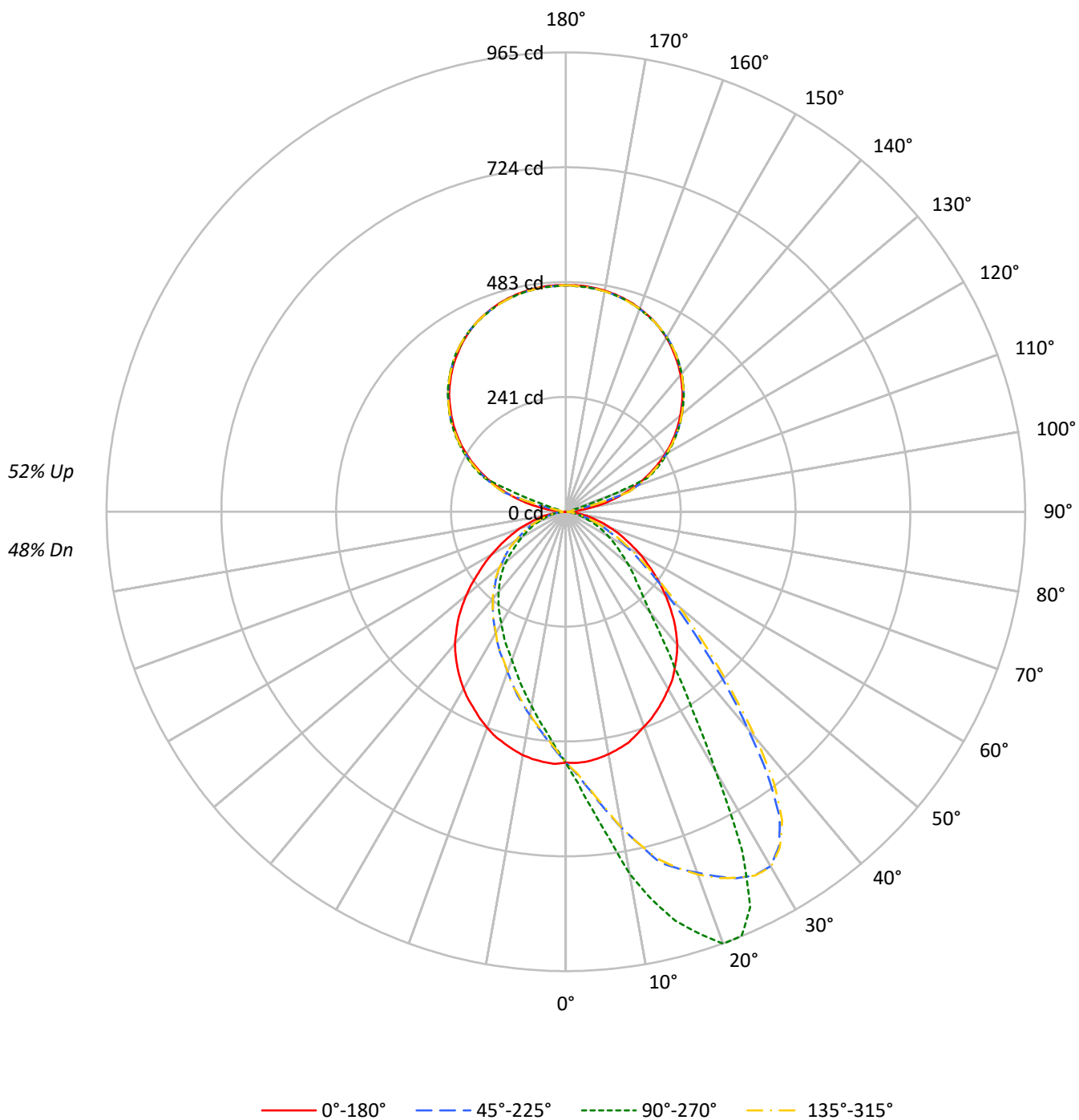
Lumens per Lamp: N/A
Luminaire Lumens: 2763.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	33	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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.9
10°-20°	162.0	5.9
20°-30°	255.1	9.2
30°-40°	265.3	9.6
40°-50°	226.9	8.2
50°-60°	173.0	6.3
60°-70°	110.9	4.0
70°-80°	53.1	1.9
80°-90°	14.9	0.5
90°-100°	16.8	0.6
100°-110°	81.1	2.9
110°-120°	198.7	7.2
120°-130°	252.3	9.1
130°-140°	269.5	9.8
140°-150°	252.0	9.1
150°-160°	203.3	7.4
160°-170°	131.2	4.7
170°-180°	45.2	1.6
0°-30°	468.8	17.0
0°-40°	734.1	26.6
0°-60°	1134.1	41.0
0°-90°	1313.0	47.5
90°-120°	296.6	10.7
90°-150°	1070.4	38.7
90°-180°	1450.0	52.5
0°-180°	2763.0	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°	0	11	0	11	0	2
95°	22	13	22	13	22	26
105°	105	16	105	16	105	112
115°	198	208	198	208	198	195
125°	278	284	278	284	278	249
135°	347	350	347	350	347	267
145°	400	404	400	404	400	250
155°	441	440	441	440	441	203
165°	465	464	465	464	465	131
175°	476	474	476	474	476	45
180°	476	476	476	476	476	

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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°	0.4	1.2	2.0	2.7	3.5	3.9	4.4	5.4	6.5	7.5	8.5
92.5°	8.1	7.6	7.2	6.7	6.2	6.0	6.4	7.1	7.8	8.5	9.2
95°	21.6	18.4	15.2	11.9	8.7	7.1	7.5	8.4	9.3	10.1	11.0
97.5°	39.2	37.0	34.8	32.6	30.4	29.3	27.3	23.3	19.3	15.3	11.3
100°	59.7	61.3	62.9	64.4	66.0	66.8	60.7	48.4	36.2	23.9	11.7
102.5°	83.0	84.0	85.0	86.1	87.1	87.6	80.8	67.1	53.4	39.8	26.1
105°	105.3	106.2	107.0	107.9	108.8	109.2	105.7	98.6	91.5	84.5	77.4
107.5°	129.0	129.7	130.4	131.1	131.8	132.2	132.8	134.0	135.1	136.3	137.5
110°	152.7	153.3	153.9	154.6	155.2	155.5	155.9	156.8	157.7	158.5	159.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	175.3	175.8	176.4	176.9	177.4	177.7	178.1	179.0	179.9	180.7	181.6
115°	197.5	198.0	198.5	199.0	199.5	199.7	200.0	200.7	201.4	202.1	202.8
117.5°	219.4	220.0	220.5	221.1	221.6	221.9	222.1	222.5	222.9	223.3	223.7
120°	239.6	240.3	241.0	241.7	242.4	242.8	242.9	243.1	243.4	243.6	243.8
122.5°	260.1	260.7	261.2	261.8	262.3	262.6	262.8	263.1	263.4	263.7	264.0
125°	278.5	279.1	279.7	280.4	281.0	281.3	281.5	281.8	282.1	282.4	282.7
127.5°	296.8	297.4	298.1	298.7	299.4	299.7	299.9	300.3	300.6	301.0	301.4
130°	313.8	314.4	315.0	315.7	316.3	316.6	316.8	317.1	317.4	317.7	318.0
132.5°	330.1	330.7	331.3	332.0	332.6	332.9	333.0	333.2	333.5	333.7	333.9
135°	346.7	347.2	347.6	348.1	348.6	348.8	349.0	349.3	349.6	349.9	350.2
137.5°	360.8	361.4	362.0	362.7	363.3	363.6	363.7	363.8	364.0	364.1	364.3
140°	374.9	375.4	375.9	376.4	376.9	377.1	377.2	377.4	377.7	377.9	378.1
142.5°	388.0	388.5	388.9	389.4	389.9	390.1	390.2	390.5	390.7	391.0	391.2
145°	400.0	400.6	401.1	401.7	402.2	402.5	402.6	402.7	402.9	403.0	403.2
147.5°	411.7	412.1	412.5	412.9	413.3	413.5	413.6	413.7	413.9	414.0	414.2
150°	422.3	422.5	422.7	423.0	423.2	423.3	423.4	423.6	423.7	423.9	424.1
152.5°	431.8	431.9	432.0	432.1	432.2	432.2	432.2	432.3	432.4	432.4	432.5
155°	440.7	440.5	440.4	440.2	440.1	440.0	440.0	440.1	440.2	440.2	440.3
157.5°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.6	447.5	447.5	447.4
160°	454.1	454.0	453.9	453.8	453.7	453.7	453.7	453.6	453.5	453.5	453.4
162.5°	460.1	459.9	459.6	459.4	459.1	459.0	459.0	458.9	458.8	458.8	458.7
165°	464.7	464.5	464.2	464.0	463.7	463.6	463.6	463.5	463.4	463.4	463.3
167.5°	468.6	468.3	468.0	467.7	467.4	467.2	467.2	467.2	467.2	467.2	467.2
170°	471.8	471.5	471.1	470.8	470.5	470.3	470.3	470.3	470.3	470.3	470.3
172.5°	473.9	473.5	473.1	472.7	472.3	472.1	472.1	472.2	472.3	472.4	472.5
175°	475.6	475.2	474.8	474.5	474.1	473.9	473.9	474.0	474.1	474.1	474.2
177.5°	476.4	476.0	475.6	475.2	474.8	474.6	474.6	474.7	474.8	474.8	474.9
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

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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°	8.8	9.1	9.4	9.7	9.9	10.0	10.1	10.3	10.4	10.6	10.4
92.5°	9.8	10.3	10.9	11.4	11.7	11.7	11.8	11.9	11.9	12.0	11.9
95°	11.5	12.1	12.6	13.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.5°	11.9	12.5	13.2	13.8	14.1	14.1	14.2	14.3	14.4	14.5	14.4
100°	12.3	12.9	13.6	14.2	14.5	14.5	14.6	14.7	14.7	14.8	14.7
102.5°	23.5	20.9	18.4	15.8	14.5	14.6	14.7	14.9	15.0	15.2	15.0
105°	63.5	49.6	35.7	21.8	14.8	14.9	15.0	15.2	15.3	15.5	15.3
107.5°	125.4	113.3	101.2	89.1	83.0	77.9	67.6	57.3	47.1	36.8	47.1
110°	156.8	154.2	151.6	149.0	147.7	142.1	130.9	119.6	108.4	97.2	108.4

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	182.3	183.0	183.7	184.4	184.8	184.7	184.6	184.4	184.3	184.1	184.3
115°	203.6	204.4	205.2	206.0	206.4	206.6	206.9	207.2	207.5	207.8	207.5
117.5°	224.3	224.9	225.6	226.2	226.5	226.5	226.6	226.7	226.8	226.9	226.8
120°	244.4	245.1	245.7	246.4	246.7	246.7	246.7	246.7	246.7	246.7	246.7
122.5°	264.4	264.8	265.1	265.5	265.7	265.7	265.8	265.9	266.0	266.1	266.0
125°	282.9	283.0	283.2	283.3	283.4	283.5	283.6	283.8	283.9	284.1	283.9
127.5°	301.6	301.9	302.1	302.4	302.5	302.4	302.3	302.1	302.0	301.8	302.0
130°	318.3	318.7	319.0	319.3	319.5	319.4	319.2	319.1	318.9	318.7	318.9
132.5°	334.2	334.6	334.9	335.2	335.4	335.3	335.0	334.8	334.5	334.3	334.5
135°	350.4	350.7	350.9	351.2	351.3	351.2	350.9	350.7	350.4	350.2	350.4
137.5°	364.7	365.1	365.5	365.9	366.1	366.0	365.9	365.7	365.6	365.4	365.6
140°	378.4	378.7	379.0	379.3	379.5	379.4	379.3	379.1	379.0	378.8	379.0
142.5°	391.4	391.6	391.9	392.1	392.2	392.1	391.9	391.6	391.4	391.2	391.4
145°	403.4	403.5	403.7	403.8	403.9	403.9	403.9	403.9	403.9	403.9	403.9
147.5°	414.4	414.5	414.7	414.8	414.9	414.7	414.3	413.9	413.5	413.1	413.5
150°	424.3	424.4	424.6	424.7	424.8	424.7	424.4	424.2	423.9	423.7	423.9
152.5°	432.8	433.1	433.4	433.7	433.9	433.7	433.3	433.0	432.6	432.2	432.6
155°	440.7	441.1	441.5	441.9	442.1	441.9	441.4	440.9	440.5	440.0	440.5
157.5°	447.9	448.3	448.8	449.3	449.5	449.2	448.6	447.9	447.3	446.7	447.3
160°	453.9	454.3	454.8	455.3	455.5	455.2	454.7	454.1	453.6	453.0	453.6
162.5°	459.3	459.8	460.4	460.9	461.2	461.0	460.5	460.0	459.5	459.0	459.5
165°	463.9	464.5	465.2	465.8	466.1	465.8	465.3	464.7	464.2	463.6	464.2
167.5°	467.8	468.4	469.1	469.7	470.0	469.7	469.1	468.4	467.8	467.2	467.8
170°	470.9	471.6	472.2	472.9	473.2	472.9	472.2	471.6	470.9	470.3	470.9
172.5°	473.1	473.7	474.4	475.0	475.3	474.9	474.2	473.5	472.8	472.1	472.8
175°	474.8	475.3	475.9	476.4	476.7	476.4	475.8	475.1	474.5	473.9	474.5
177.5°	475.5	476.2	476.8	477.5	477.8	477.4	476.6	475.8	475.0	474.2	475.0
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-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°	10.3	10.1	10.0	9.9	9.7	9.4	9.1	8.8	8.5	7.5	6.5
92.5°	11.9	11.8	11.7	11.7	11.4	10.9	10.3	9.8	9.2	8.5	7.8
95°	13.4	13.4	13.4	13.4	13.1	12.6	12.1	11.5	11.0	10.1	9.3
97.5°	14.3	14.2	14.1	14.1	13.8	13.2	12.5	11.9	11.3	15.3	19.3
100°	14.7	14.6	14.5	14.5	14.2	13.6	12.9	12.3	11.7	23.9	36.2
102.5°	14.9	14.7	14.6	14.5	15.8	18.4	20.9	23.5	26.1	39.8	53.4
105°	15.2	15.0	14.9	14.8	21.8	35.7	49.6	63.5	77.4	84.5	91.5
107.5°	57.3	67.6	77.9	83.0	89.1	101.2	113.3	125.4	137.5	136.3	135.1
110°	119.6	130.9	142.1	147.7	149.0	151.6	154.2	156.8	159.4	158.5	157.7

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	184.4	184.6	184.7	184.8	184.4	183.7	183.0	182.3	181.6	180.7	179.9
115°	207.2	206.9	206.6	206.4	206.0	205.2	204.4	203.6	202.8	202.1	201.4
117.5°	226.7	226.6	226.5	226.5	226.2	225.6	224.9	224.3	223.7	223.3	222.9
120°	246.7	246.7	246.7	246.7	246.4	245.7	245.1	244.4	243.8	243.6	243.4
122.5°	265.9	265.8	265.7	265.7	265.5	265.1	264.8	264.4	264.0	263.7	263.4
125°	283.8	283.6	283.5	283.4	283.3	283.2	283.0	282.9	282.7	282.4	282.1
127.5°	302.1	302.3	302.4	302.5	302.4	302.1	301.9	301.6	301.4	301.0	300.6
130°	319.1	319.2	319.4	319.5	319.3	319.0	318.7	318.3	318.0	317.7	317.4
132.5°	334.8	335.0	335.3	335.4	335.2	334.9	334.6	334.2	333.9	333.7	333.5
135°	350.7	350.9	351.2	351.3	351.2	350.9	350.7	350.4	350.2	349.9	349.6
137.5°	365.7	365.9	366.0	366.1	365.9	365.5	365.1	364.7	364.3	364.1	364.0
140°	379.1	379.3	379.4	379.5	379.3	379.0	378.7	378.4	378.1	377.9	377.7
142.5°	391.6	391.9	392.1	392.2	392.1	391.9	391.6	391.4	391.2	391.0	390.7
145°	403.9	403.9	403.9	403.9	403.8	403.7	403.5	403.4	403.2	403.0	402.9
147.5°	413.9	414.3	414.7	414.9	414.8	414.7	414.5	414.4	414.2	414.0	413.9
150°	424.2	424.4	424.7	424.8	424.7	424.6	424.4	424.3	424.1	423.9	423.7
152.5°	433.0	433.3	433.7	433.9	433.7	433.4	433.1	432.8	432.5	432.4	432.4
155°	440.9	441.4	441.9	442.1	441.9	441.5	441.1	440.7	440.3	440.2	440.2
157.5°	447.9	448.6	449.2	449.5	449.3	448.8	448.3	447.9	447.4	447.5	447.5
160°	454.1	454.7	455.2	455.5	455.3	454.8	454.3	453.9	453.4	453.5	453.5
162.5°	460.0	460.5	461.0	461.2	460.9	460.4	459.8	459.3	458.7	458.8	458.8
165°	464.7	465.3	465.8	466.1	465.8	465.2	464.5	463.9	463.3	463.4	463.4
167.5°	468.4	469.1	469.7	470.0	469.7	469.1	468.4	467.8	467.2	467.2	467.2
170°	471.6	472.2	472.9	473.2	472.9	472.2	471.6	470.9	470.3	470.3	470.3
172.5°	473.5	474.2	474.9	475.3	475.0	474.4	473.7	473.1	472.5	472.4	472.3
175°	475.1	475.8	476.4	476.7	476.4	475.9	475.3	474.8	474.2	474.1	474.1
177.5°	475.8	476.6	477.4	477.8	477.5	476.8	476.2	475.5	474.9	474.8	474.8
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-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°	5.4	4.4	3.9	3.5	2.7	2.0	1.2	0.4	1.2	2.0	2.7
92.5°	7.1	6.4	6.0	6.2	6.7	7.2	7.6	8.1	7.6	7.2	6.7
95°	8.4	7.5	7.1	8.7	11.9	15.2	18.4	21.6	18.4	15.2	11.9
97.5°	23.3	27.3	29.3	30.4	32.6	34.8	37.0	39.2	37.0	34.8	32.6
100°	48.4	60.7	66.8	66.0	64.4	62.9	61.3	59.7	61.3	62.9	64.4
102.5°	67.1	80.8	87.6	87.1	86.1	85.0	84.0	83.0	84.0	85.0	86.1
105°	98.6	105.7	109.2	108.8	107.9	107.0	106.2	105.3	106.2	107.0	107.9
107.5°	134.0	132.8	132.2	131.8	131.1	130.4	129.7	129.0	129.7	130.4	131.1
110°	156.8	155.9	155.5	155.2	154.6	153.9	153.3	152.7	153.3	153.9	154.6

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	179.0	178.1	177.7	177.4	176.9	176.4	175.8	175.3	175.8	176.4	176.9
115°	200.7	200.0	199.7	199.5	199.0	198.5	198.0	197.5	198.0	198.5	199.0
117.5°	222.5	222.1	221.9	221.6	221.1	220.5	220.0	219.4	220.0	220.5	221.1
120°	243.1	242.9	242.8	242.4	241.7	241.0	240.3	239.6	240.3	241.0	241.7
122.5°	263.1	262.8	262.6	262.3	261.8	261.2	260.7	260.1	260.7	261.2	261.8
125°	281.8	281.5	281.3	281.0	280.4	279.7	279.1	278.5	279.1	279.7	280.4
127.5°	300.3	299.9	299.7	299.4	298.7	298.1	297.4	296.8	297.4	298.1	298.7
130°	317.1	316.8	316.6	316.3	315.7	315.0	314.4	313.8	314.4	315.0	315.7
132.5°	333.2	333.0	332.9	332.6	332.0	331.3	330.7	330.1	330.7	331.3	332.0
135°	349.3	349.0	348.8	348.6	348.1	347.6	347.2	346.7	347.2	347.6	348.1
137.5°	363.8	363.7	363.6	363.3	362.7	362.0	361.4	360.8	361.4	362.0	362.7
140°	377.4	377.2	377.1	376.9	376.4	375.9	375.4	374.9	375.4	375.9	376.4
142.5°	390.5	390.2	390.1	389.9	389.4	388.9	388.5	388.0	388.5	388.9	389.4
145°	402.7	402.6	402.5	402.2	401.7	401.1	400.6	400.0	400.6	401.1	401.7
147.5°	413.7	413.6	413.5	413.3	412.9	412.5	412.1	411.7	412.1	412.5	412.9
150°	423.6	423.4	423.3	423.2	423.0	422.7	422.5	422.3	422.5	422.7	423.0
152.5°	432.3	432.2	432.2	432.2	432.1	432.0	431.9	431.8	431.9	432.0	432.1
155°	440.1	440.0	440.0	440.1	440.2	440.4	440.5	440.7	440.5	440.4	440.2
157.5°	447.6	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7
160°	453.6	453.7	453.7	453.7	453.8	453.9	454.0	454.1	454.0	453.9	453.8
162.5°	458.9	459.0	459.0	459.1	459.4	459.6	459.9	460.1	459.9	459.6	459.4
165°	463.5	463.6	463.6	463.7	464.0	464.2	464.5	464.7	464.5	464.2	464.0
167.5°	467.2	467.2	467.2	467.4	467.7	468.0	468.3	468.6	468.3	468.0	467.7
170°	470.3	470.3	470.3	470.5	470.8	471.1	471.5	471.8	471.5	471.1	470.8
172.5°	472.2	472.1	472.1	472.3	472.7	473.1	473.5	473.9	473.5	473.1	472.7
175°	474.0	473.9	473.9	474.1	474.5	474.8	475.2	475.6	475.2	474.8	474.5
177.5°	474.7	474.6	474.6	474.8	475.2	475.6	476.0	476.4	476.0	475.6	475.2
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-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°	3.5	3.9	4.4	5.4	6.5	7.5	8.5	8.8	9.1	9.4	9.7
92.5°	6.2	6.0	6.4	7.1	7.8	8.5	9.2	9.8	10.3	10.9	11.4
95°	8.7	7.1	7.5	8.4	9.3	10.1	11.0	11.5	12.1	12.6	13.1
97.5°	30.4	29.3	27.3	23.3	19.3	15.3	11.3	11.9	12.5	13.2	13.8
100°	66.0	66.8	60.7	48.4	36.2	23.9	11.7	12.3	12.9	13.6	14.2
102.5°	87.1	87.6	80.8	67.1	53.4	39.8	26.1	23.5	20.9	18.4	15.8
105°	108.8	109.2	105.7	98.6	91.5	84.5	77.4	63.5	49.6	35.7	21.8
107.5°	131.8	132.2	132.8	134.0	135.1	136.3	137.5	125.4	113.3	101.2	89.1
110°	155.2	155.5	155.9	156.8	157.7	158.5	159.4	156.8	154.2	151.6	149.0

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	177.4	177.7	178.1	179.0	179.9	180.7	181.6	182.3	183.0	183.7	184.4
115°	199.5	199.7	200.0	200.7	201.4	202.1	202.8	203.6	204.4	205.2	206.0
117.5°	221.6	221.9	222.1	222.5	222.9	223.3	223.7	224.3	224.9	225.6	226.2
120°	242.4	242.8	242.9	243.1	243.4	243.6	243.8	244.4	245.1	245.7	246.4
122.5°	262.3	262.6	262.8	263.1	263.4	263.7	264.0	264.4	264.8	265.1	265.5
125°	281.0	281.3	281.5	281.8	282.1	282.4	282.7	282.9	283.0	283.2	283.3
127.5°	299.4	299.7	299.9	300.3	300.6	301.0	301.4	301.6	301.9	302.1	302.4
130°	316.3	316.6	316.8	317.1	317.4	317.7	318.0	318.3	318.7	319.0	319.3
132.5°	332.6	332.9	333.0	333.2	333.5	333.7	333.9	334.2	334.6	334.9	335.2
135°	348.6	348.8	349.0	349.3	349.6	349.9	350.2	350.4	350.7	350.9	351.2
137.5°	363.3	363.6	363.7	363.8	364.0	364.1	364.3	364.7	365.1	365.5	365.9
140°	376.9	377.1	377.2	377.4	377.7	377.9	378.1	378.4	378.7	379.0	379.3
142.5°	389.9	390.1	390.2	390.5	390.7	391.0	391.2	391.4	391.6	391.9	392.1
145°	402.2	402.5	402.6	402.7	402.9	403.0	403.2	403.4	403.5	403.7	403.8
147.5°	413.3	413.5	413.6	413.7	413.9	414.0	414.2	414.4	414.5	414.7	414.8
150°	423.2	423.3	423.4	423.6	423.7	423.9	424.1	424.3	424.4	424.6	424.7
152.5°	432.2	432.2	432.2	432.3	432.4	432.4	432.5	432.8	433.1	433.4	433.7
155°	440.1	440.0	440.0	440.1	440.2	440.2	440.3	440.7	441.1	441.5	441.9
157.5°	447.7	447.7	447.7	447.6	447.5	447.5	447.4	447.9	448.3	448.8	449.3
160°	453.7	453.7	453.7	453.6	453.5	453.5	453.4	453.9	454.3	454.8	455.3
162.5°	459.1	459.0	459.0	458.9	458.8	458.8	458.7	459.3	459.8	460.4	460.9
165°	463.7	463.6	463.6	463.5	463.4	463.4	463.3	463.9	464.5	465.2	465.8
167.5°	467.4	467.2	467.2	467.2	467.2	467.2	467.2	467.8	468.4	469.1	469.7
170°	470.5	470.3	470.3	470.3	470.3	470.3	470.3	470.9	471.6	472.2	472.9
172.5°	472.3	472.1	472.1	472.2	472.3	472.4	472.5	473.1	473.7	474.4	475.0
175°	474.1	473.9	473.9	474.0	474.1	474.1	474.2	474.8	475.3	475.9	476.4
177.5°	474.8	474.6	474.6	474.7	474.8	474.8	474.9	475.5	476.2	476.8	477.5
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-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°	9.9	10.0	10.1	10.3	10.4	10.6	10.4	10.3	10.1	10.0	9.9
92.5°	11.7	11.7	11.8	11.9	11.9	12.0	11.9	11.9	11.8	11.7	11.7
95°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.5°	14.1	14.1	14.2	14.3	14.4	14.5	14.4	14.3	14.2	14.1	14.1
100°	14.5	14.5	14.6	14.7	14.7	14.8	14.7	14.7	14.6	14.5	14.5
102.5°	14.5	14.6	14.7	14.9	15.0	15.2	15.0	14.9	14.7	14.6	14.5
105°	14.8	14.9	15.0	15.2	15.3	15.5	15.3	15.2	15.0	14.9	14.8
107.5°	83.0	77.9	67.6	57.3	47.1	36.8	47.1	57.3	67.6	77.9	83.0
110°	147.7	142.1	130.9	119.6	108.4	97.2	108.4	119.6	130.9	142.1	147.7

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	184.8	184.7	184.6	184.4	184.3	184.1	184.3	184.4	184.6	184.7	184.8
115°	206.4	206.6	206.9	207.2	207.5	207.8	207.5	207.2	206.9	206.6	206.4
117.5°	226.5	226.5	226.6	226.7	226.8	226.9	226.8	226.7	226.6	226.5	226.5
120°	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7
122.5°	265.7	265.7	265.8	265.9	266.0	266.1	266.0	265.9	265.8	265.7	265.7
125°	283.4	283.5	283.6	283.8	283.9	284.1	283.9	283.8	283.6	283.5	283.4
127.5°	302.5	302.4	302.3	302.1	302.0	301.8	302.0	302.1	302.3	302.4	302.5
130°	319.5	319.4	319.2	319.1	318.9	318.7	318.9	319.1	319.2	319.4	319.5
132.5°	335.4	335.3	335.0	334.8	334.5	334.3	334.5	334.8	335.0	335.3	335.4
135°	351.3	351.2	350.9	350.7	350.4	350.2	350.4	350.7	350.9	351.2	351.3
137.5°	366.1	366.0	365.9	365.7	365.6	365.4	365.6	365.7	365.9	366.0	366.1
140°	379.5	379.4	379.3	379.1	379.0	378.8	379.0	379.1	379.3	379.4	379.5
142.5°	392.2	392.1	391.9	391.6	391.4	391.2	391.4	391.6	391.9	392.1	392.2
145°	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9
147.5°	414.9	414.7	414.3	413.9	413.5	413.1	413.5	413.9	414.3	414.7	414.9
150°	424.8	424.7	424.4	424.2	423.9	423.7	423.9	424.2	424.4	424.7	424.8
152.5°	433.9	433.7	433.3	433.0	432.6	432.2	432.6	433.0	433.3	433.7	433.9
155°	442.1	441.9	441.4	440.9	440.5	440.0	440.5	440.9	441.4	441.9	442.1
157.5°	449.5	449.2	448.6	447.9	447.3	446.7	447.3	447.9	448.6	449.2	449.5
160°	455.5	455.2	454.7	454.1	453.6	453.0	453.6	454.1	454.7	455.2	455.5
162.5°	461.2	461.0	460.5	460.0	459.5	459.0	459.5	460.0	460.5	461.0	461.2
165°	466.1	465.8	465.3	464.7	464.2	463.6	464.2	464.7	465.3	465.8	466.1
167.5°	470.0	469.7	469.1	468.4	467.8	467.2	467.8	468.4	469.1	469.7	470.0
170°	473.2	472.9	472.2	471.6	470.9	470.3	470.9	471.6	472.2	472.9	473.2
172.5°	475.3	474.9	474.2	473.5	472.8	472.1	472.8	473.5	474.2	474.9	475.3
175°	476.7	476.4	475.8	475.1	474.5	473.9	474.5	475.1	475.8	476.4	476.7
177.5°	477.8	477.4	476.6	475.8	475.0	474.2	475.0	475.8	476.6	477.4	477.8
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

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CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-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°	9.7	9.4	9.1	8.8	8.5	7.5	6.5	5.4	4.4	3.9	3.5
92.5°	11.4	10.9	10.3	9.8	9.2	8.5	7.8	7.1	6.4	6.0	6.2
95°	13.1	12.6	12.1	11.5	11.0	10.1	9.3	8.4	7.5	7.1	8.7
97.5°	13.8	13.2	12.5	11.9	11.3	15.3	19.3	23.3	27.3	29.3	30.4
100°	14.2	13.6	12.9	12.3	11.7	23.9	36.2	48.4	60.7	66.8	66.0
102.5°	15.8	18.4	20.9	23.5	26.1	39.8	53.4	67.1	80.8	87.6	87.1
105°	21.8	35.7	49.6	63.5	77.4	84.5	91.5	98.6	105.7	109.2	108.8
107.5°	89.1	101.2	113.3	125.4	137.5	136.3	135.1	134.0	132.8	132.2	131.8
110°	149.0	151.6	154.2	156.8	159.4	158.5	157.7	156.8	155.9	155.5	155.2

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	184.4	183.7	183.0	182.3	181.6	180.7	179.9	179.0	178.1	177.7	177.4
115°	206.0	205.2	204.4	203.6	202.8	202.1	201.4	200.7	200.0	199.7	199.5
117.5°	226.2	225.6	224.9	224.3	223.7	223.3	222.9	222.5	222.1	221.9	221.6
120°	246.4	245.7	245.1	244.4	243.8	243.6	243.4	243.1	242.9	242.8	242.4
122.5°	265.5	265.1	264.8	264.4	264.0	263.7	263.4	263.1	262.8	262.6	262.3
125°	283.3	283.2	283.0	282.9	282.7	282.4	282.1	281.8	281.5	281.3	281.0
127.5°	302.4	302.1	301.9	301.6	301.4	301.0	300.6	300.3	299.9	299.7	299.4
130°	319.3	319.0	318.7	318.3	318.0	317.7	317.4	317.1	316.8	316.6	316.3
132.5°	335.2	334.9	334.6	334.2	333.9	333.7	333.5	333.2	333.0	332.9	332.6
135°	351.2	350.9	350.7	350.4	350.2	349.9	349.6	349.3	349.0	348.8	348.6
137.5°	365.9	365.5	365.1	364.7	364.3	364.1	364.0	363.8	363.7	363.6	363.3
140°	379.3	379.0	378.7	378.4	378.1	377.9	377.7	377.4	377.2	377.1	376.9
142.5°	392.1	391.9	391.6	391.4	391.2	391.0	390.7	390.5	390.2	390.1	389.9
145°	403.8	403.7	403.5	403.4	403.2	403.0	402.9	402.7	402.6	402.5	402.2
147.5°	414.8	414.7	414.5	414.4	414.2	414.0	413.9	413.7	413.6	413.5	413.3
150°	424.7	424.6	424.4	424.3	424.1	423.9	423.7	423.6	423.4	423.3	423.2
152.5°	433.7	433.4	433.1	432.8	432.5	432.4	432.4	432.3	432.2	432.2	432.2
155°	441.9	441.5	441.1	440.7	440.3	440.2	440.2	440.1	440.0	440.0	440.1
157.5°	449.3	448.8	448.3	447.9	447.4	447.5	447.5	447.6	447.7	447.7	447.7
160°	455.3	454.8	454.3	453.9	453.4	453.5	453.5	453.6	453.7	453.7	453.7
162.5°	460.9	460.4	459.8	459.3	458.7	458.8	458.8	458.9	459.0	459.0	459.1
165°	465.8	465.2	464.5	463.9	463.3	463.4	463.4	463.5	463.6	463.6	463.7
167.5°	469.7	469.1	468.4	467.8	467.2	467.2	467.2	467.2	467.2	467.2	467.4
170°	472.9	472.2	471.6	470.9	470.3	470.3	470.3	470.3	470.3	470.3	470.5
172.5°	475.0	474.4	473.7	473.1	472.5	472.4	472.3	472.2	472.1	472.1	472.3
175°	476.4	475.9	475.3	474.8	474.2	474.1	474.1	474.0	473.9	473.9	474.1
177.5°	477.5	476.8	476.2	475.5	474.9	474.8	474.8	474.7	474.6	474.6	474.8
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-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°	2.7	2.0	1.2	0.4
92.5°	6.7	7.2	7.6	8.1
95°	11.9	15.2	18.4	21.6
97.5°	32.6	34.8	37.0	39.2
100°	64.4	62.9	61.3	59.7
102.5°	86.1	85.0	84.0	83.0
105°	107.9	107.0	106.2	105.3
107.5°	131.1	130.4	129.7	129.0
110°	154.6	153.9	153.3	152.7

TEST NUMBER: P1010892

CATALOG NUMBER: S123RDIP-B340D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	176.9	176.4	175.8	175.3
115°	199.0	198.5	198.0	197.5
117.5°	221.1	220.5	220.0	219.4
120°	241.7	241.0	240.3	239.6
122.5°	261.8	261.2	260.7	260.1
125°	280.4	279.7	279.1	278.5
127.5°	298.7	298.1	297.4	296.8
130°	315.7	315.0	314.4	313.8
132.5°	332.0	331.3	330.7	330.1
135°	348.1	347.6	347.2	346.7
137.5°	362.7	362.0	361.4	360.8
140°	376.4	375.9	375.4	374.9
142.5°	389.4	388.9	388.5	388.0
145°	401.7	401.1	400.6	400.0
147.5°	412.9	412.5	412.1	411.7
150°	423.0	422.7	422.5	422.3
152.5°	432.1	432.0	431.9	431.8
155°	440.2	440.4	440.5	440.7
157.5°	447.7	447.7	447.7	447.7
160°	453.8	453.9	454.0	454.1
162.5°	459.4	459.6	459.9	460.1
165°	464.0	464.2	464.5	464.7
167.5°	467.7	468.0	468.3	468.6
170°	470.8	471.1	471.5	471.8
172.5°	472.7	473.1	473.5	473.9
175°	474.5	474.8	475.2	475.6
177.5°	475.2	475.6	476.0	476.4
180°	475.6	475.6	475.6	475.6

(END OF REPORT)