

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: P1013331

Luminaire Tested: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013331
REPORT IS A COMBINATION OF REPORTS P999348 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

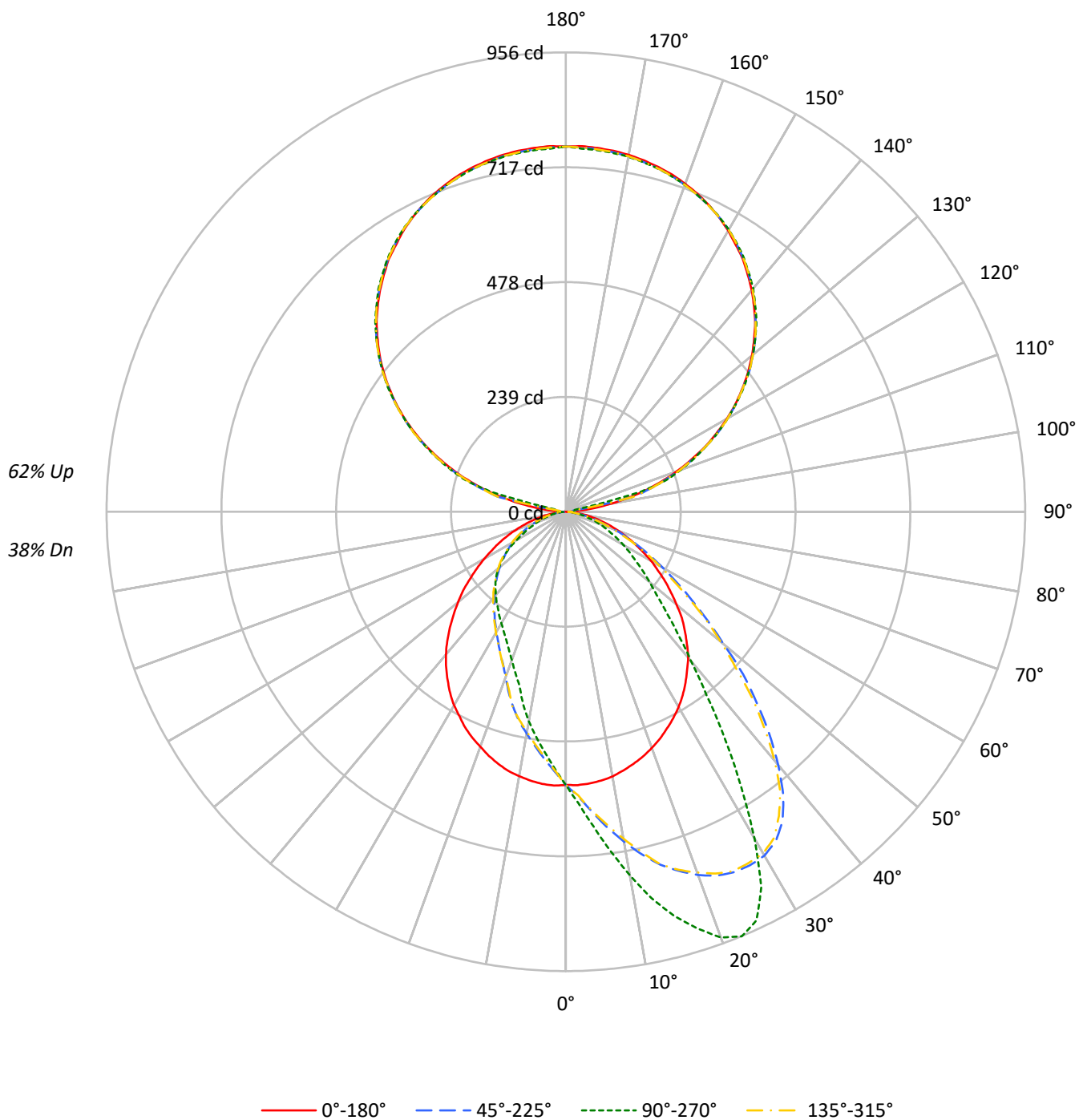
Lumens per Lamp: N/A
Luminaire Lumens: 3790.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45			38
1	95	91	88	84	87	83	80	77	68	66	64	53	52	51	40	40	39			33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33			28
3	80	71	64	58	72	64	59	54	53	49	45	42	39	37	32	30	29			24
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	27	25			21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	28	26	24	22			18
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19			16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17			14
8	53	41	34	28	48	38	31	27	31	26	23	26	22	19	20	17	15			13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	18	16	14			12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	17	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4636	4636	4636	4636
5°	4635	5238	4643	4003
10°	4611	6038	4607	3481
15°	4556	6795	4556	2915
20°	4498	7368	4475	2567
25°	4428	7399	4408	2319
30°	4354	6292	4320	2148
35°	4248	4748	4194	2020
40°	4131	3441	4050	1921
45°	3938	2615	3840	1832
50°	3707	2113	3606	1704
55°	3458	1750	3345	1532
60°	3208	1479	3065	1274
65°	2894	1206	2802	1013
70°	2606	977	2483	822
75°	2282	704	2124	603
80°	1884	466	1715	444
85°	1368	241	1135	241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 5803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.5
10°-20°	166.2	4.4
20°-30°	260.4	6.9
30°-40°	289.1	7.6
40°-50°	256.2	6.8
50°-60°	199.7	5.3
60°-70°	130.6	3.4
70°-80°	64.1	1.7
80°-90°	17.2	0.5
90°-100°	25.2	0.7
100°-110°	166.1	4.4
110°-120°	317.2	8.4
120°-130°	402.7	10.6
130°-140°	430.8	11.4
140°-150°	402.8	10.6
150°-160°	324.8	8.6
160°-170°	209.5	5.5
170°-180°	72.2	1.9
0°-30°	481.7	12.7
0°-40°	770.8	20.3
0°-60°	1226.7	32.4
0°-90°	1438.6	38.0
90°-120°	508.5	13.4
90°-150°	1744.9	46.0
90°-180°	2351.0	62.0
0°-180°	3790.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	568	568	568	568	568	
5°	568	657	568	502	568	54
15°	543	870	543	373	543	153
25°	498	939	496	294	498	229
35°	434	578	429	246	434	271
45°	350	296	341	207	350	270
55°	252	176	244	154	252	225
65°	158	103	153	87	158	158
75°	79	48	74	41	79	84
85°	19	12	16	12	19	21
90°	2	17	2	17	2	3
95°	31	16	31	16	31	39
105°	171	162	171	162	171	179
115°	319	322	319	322	319	314
125°	449	452	449	452	449	401
135°	557	561	557	561	557	429
145°	642	646	642	646	642	401
155°	704	704	704	704	704	325
165°	743	739	743	739	743	210
175°	760	755	760	755	760	72
180°	760	760	760	760	760	

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	569.4	574.4	577.2	579.5	584.0	585.9	589.5	590.4	594.1	593.7	592.3
5°	567.5	576.2	582.7	589.5	597.8	602.4	607.4	614.7	618.4	623.4	626.6
7.5°	564.3	576.2	586.8	597.3	610.6	617.9	624.3	635.8	645.4	653.7	662.8
10°	559.3	574.4	590.0	604.2	622.5	631.2	640.8	657.8	671.1	682.5	697.2
12.5°	551.5	572.6	590.0	609.2	632.6	644.5	657.3	677.5	693.1	711.8	730.2
15°	543.3	566.6	589.5	614.7	641.3	655.0	667.9	694.9	718.7	740.2	760.4
17.5°	534.1	559.8	585.0	612.9	645.0	661.9	677.0	709.5	735.7	763.6	783.8
20°	523.1	551.1	579.9	611.1	647.2	666.0	683.0	720.1	748.9	779.2	804.4
22.5°	511.2	541.4	573.0	606.9	644.5	665.1	684.8	724.7	758.1	786.0	819.9
25°	497.9	530.0	562.5	598.2	640.4	662.8	683.0	722.4	758.1	794.7	827.7
27.5°	484.2	517.2	551.1	588.6	631.7	653.7	676.6	714.6	756.3	796.1	829.6
30°	469.1	501.1	536.9	572.6	618.4	640.4	663.7	705.0	750.3	790.2	826.4
32.5°	452.6	485.5	519.4	556.6	601.4	625.3	646.8	693.5	739.8	779.2	813.1
35°	434.2	465.4	497.5	535.5	579.9	601.4	627.1	675.6	722.4	764.1	786.0
37.5°	414.5	444.3	474.1	511.7	554.3	580.4	605.6	654.6	704.0	732.0	743.4
40°	396.2	422.3	448.4	484.6	527.7	554.7	580.4	631.2	674.7	696.3	687.6
42.5°	372.9	399.9	423.3	456.7	500.2	525.4	551.5	604.2	639.5	648.2	626.6
45°	350.0	372.4	394.9	427.4	473.2	494.7	522.7	571.7	601.0	593.2	561.6
47.5°	327.5	345.8	366.9	398.5	439.7	465.4	491.5	534.1	554.7	543.7	499.8
50°	300.9	319.3	341.3	368.7	408.6	433.3	453.9	493.3	508.9	481.9	428.7
52.5°	275.8	291.8	310.6	336.2	374.2	396.7	419.1	453.0	458.1	426.9	371.0
55°	251.9	264.8	284.5	305.1	339.9	363.7	379.3	408.1	406.8	367.8	319.7
57.5°	227.2	239.1	252.4	273.9	306.9	324.8	341.7	366.9	353.6	320.6	273.0
60°	205.2	212.1	225.4	246.0	273.9	289.5	302.8	316.5	305.1	269.3	232.7
62.5°	180.9	188.7	198.3	214.8	239.6	254.2	263.8	269.8	257.9	230.4	197.0
65°	158.0	164.9	175.0	189.6	208.4	219.4	224.5	228.6	222.2	191.0	164.4
67.5°	137.4	142.0	151.2	160.8	180.9	183.7	190.6	192.4	179.6	155.7	134.7
70°	116.8	121.4	125.5	137.0	146.1	151.2	152.5	152.5	139.7	124.1	106.7
72.5°	97.6	100.3	104.4	112.2	117.3	120.9	122.8	120.5	108.6	95.7	82.9
75°	79.2	80.6	84.3	89.3	93.4	92.1	91.6	88.9	80.2	71.0	63.7
77.5°	60.9	61.8	66.0	67.3	67.3	68.7	66.9	64.1	56.8	49.9	46.7
80°	45.8	47.2	47.6	48.6	47.6	47.6	46.3	41.7	38.0	34.8	32.5
82.5°	31.6	32.5	33.0	31.6	32.5	31.1	28.9	25.7	23.4	22.9	22.0
85°	18.8	19.2	18.8	18.8	17.4	16.9	15.1	14.7	13.7	13.7	13.3
87.5°	9.2	8.7	7.8	6.9	6.9	6.4	6.9	6.0	6.9	6.4	6.0
90°	1.7	3.1	4.5	5.9	7.3	8.0	8.5	9.5	10.5	11.5	12.5
92.5°	8.5	8.3	8.0	7.8	7.5	7.4	7.9	8.9	9.9	10.9	11.9
95°	31.3	27.0	22.7	18.4	14.1	11.9	12.0	12.1	12.2	12.4	12.5
97.5°	59.7	62.5	65.3	68.0	70.8	72.2	65.6	52.3	39.0	25.8	12.5
100°	93.2	95.5	97.7	100.0	102.3	103.4	94.7	77.3	59.8	42.4	25.0
102.5°	130.7	132.2	133.7	135.2	136.7	137.5	138.3	139.8	141.3	142.9	144.4
105°	171.1	171.9	172.6	173.4	174.1	174.5	174.8	175.4	176.1	176.7	177.3
107.5°	208.0	208.4	208.8	209.1	209.5	209.7	210.1	211.0	211.9	212.8	213.7
110°	245.5	245.9	246.3	246.6	247.0	247.2	247.6	248.4	249.1	249.9	250.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.9	282.7	283.4	284.2	284.9	285.3	285.4	285.7	286.0	286.2	286.5
115°	319.4	319.8	320.2	320.5	320.9	321.1	321.0	320.9	320.8	320.7	320.6
117.5°	353.0	353.5	354.0	354.5	355.0	355.2	355.4	355.8	356.1	356.5	356.9
120°	387.1	387.6	388.1	388.6	389.1	389.3	389.2	389.1	389.0	388.9	388.8
122.5°	418.9	419.1	419.4	419.6	419.9	420.0	420.1	420.4	420.7	420.9	421.2
125°	449.0	449.5	450.0	450.5	451.0	451.3	451.2	450.9	450.6	450.4	450.1
127.5°	478.0	478.1	478.3	478.4	478.5	478.6	478.9	479.5	480.2	480.8	481.4
130°	505.8	505.9	506.1	506.2	506.3	506.4	506.6	507.0	507.3	507.7	508.1
132.5°	531.4	531.7	531.9	532.2	532.5	532.6	532.8	533.3	533.8	534.3	534.8
135°	557.0	556.9	556.7	556.6	556.5	556.4	556.7	557.2	557.7	558.2	558.7
137.5°	579.7	579.7	579.7	579.7	579.7	579.7	580.0	580.7	581.3	582.0	582.6
140°	601.9	602.1	602.4	602.6	602.9	603.0	603.1	603.4	603.7	603.9	604.2
142.5°	621.8	622.3	622.8	623.3	623.8	624.1	624.2	624.3	624.4	624.5	624.6
145°	642.3	642.7	643.1	643.4	643.8	644.0	644.0	644.0	644.0	644.0	644.0
147.5°	658.2	659.0	659.7	660.5	661.2	661.6	661.5	661.4	661.3	661.1	661.0
150°	675.8	676.3	676.8	677.3	677.8	678.1	678.0	677.9	677.8	677.6	677.5
152.5°	690.6	691.0	691.4	691.7	692.1	692.3	692.2	691.9	691.6	691.4	691.1
155°	704.2	704.3	704.5	704.6	704.7	704.8	704.6	704.2	703.9	703.5	703.1
157.5°	716.1	716.1	716.1	716.1	716.1	716.1	715.9	715.4	714.9	714.4	713.9
160°	726.4	726.0	725.6	725.3	724.9	724.7	724.6	724.5	724.4	724.2	724.1
162.5°	735.5	735.0	734.5	734.0	733.5	733.2	733.1	733.0	732.9	732.7	732.6
165°	742.9	742.3	741.6	741.0	740.3	740.0	740.0	740.0	740.0	740.0	740.0
167.5°	749.1	748.5	747.9	747.2	746.6	746.3	746.2	746.1	746.0	745.8	745.7
170°	754.2	753.4	752.7	751.9	751.2	750.8	750.9	751.0	751.1	751.3	751.4
172.5°	757.6	756.8	756.1	755.3	754.6	754.2	754.3	754.4	754.5	754.7	754.8
175°	759.9	759.1	758.4	757.6	756.9	756.5	756.6	756.7	756.8	757.0	757.1
177.5°	761.6	760.7	759.8	758.9	758.0	757.6	757.7	758.0	758.3	758.5	758.8
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	595.9	601.0	601.4	606.0	604.6	602.4	606.5	603.7	609.2	607.4	609.7
5°	630.8	637.6	643.6	647.2	653.7	652.3	659.2	656.9	661.9	656.9	663.3
7.5°	671.5	683.0	688.9	698.6	701.3	701.8	710.0	711.8	715.0	711.8	715.5
10°	711.4	725.1	738.9	746.6	751.7	758.6	765.9	769.1	771.4	768.2	770.5
12.5°	747.6	769.1	784.2	799.8	803.4	809.4	817.2	816.3	825.4	823.6	827.7
15°	781.0	804.8	823.1	835.5	845.6	850.6	865.3	866.2	865.7	870.3	867.6
17.5°	810.8	830.9	857.0	873.1	885.4	885.4	893.7	910.6	909.3	908.8	911.6
20°	835.1	858.0	882.2	909.3	919.3	921.2	932.6	941.3	942.7	942.7	942.7
22.5°	853.4	880.4	906.5	925.8	933.5	940.0	950.0	955.5	957.4	956.4	957.4
25°	862.5	888.2	914.8	932.2	936.7	940.4	941.3	944.5	944.1	938.6	941.8
27.5°	864.4	889.1	906.5	911.1	908.8	906.5	891.9	893.2	889.1	880.9	884.1
30°	856.1	869.4	869.0	854.8	850.6	841.0	827.7	808.0	792.0	785.1	787.4
32.5°	826.4	826.4	809.9	777.8	763.6	746.2	722.4	704.5	683.4	678.9	687.6
35°	785.1	761.8	731.5	689.4	667.9	655.0	613.8	601.0	583.1	578.1	582.2
37.5°	721.0	682.1	638.1	598.7	580.4	557.5	521.3	503.0	490.1	481.4	485.5
40°	649.1	601.9	556.1	507.5	487.4	468.6	441.6	425.1	404.5	405.4	406.8
42.5°	580.4	524.9	473.6	428.7	409.5	393.9	375.2	355.0	347.7	345.4	343.1
45°	507.5	448.4	400.3	366.9	349.5	334.8	317.4	306.0	297.3	295.5	297.7
47.5°	438.8	388.9	343.1	311.9	297.7	290.4	276.7	266.1	260.6	256.1	258.8
50°	376.5	329.8	293.2	267.1	257.0	251.9	239.1	233.6	228.1	226.7	226.3
52.5°	325.2	285.4	253.8	232.7	224.9	222.2	212.5	204.8	200.2	201.5	202.5
55°	278.5	244.6	219.9	202.9	196.5	193.3	186.4	180.9	177.7	176.4	177.3
57.5°	237.3	208.0	190.1	176.4	171.3	169.9	162.6	160.8	158.5	157.1	157.1
60°	199.7	179.1	162.6	154.8	149.3	148.0	142.5	140.2	139.7	138.3	137.4
62.5°	168.1	151.2	139.7	131.5	129.2	128.7	125.1	122.3	120.9	120.0	120.0
65°	140.6	128.3	118.6	112.7	110.9	109.9	105.8	104.9	104.0	103.1	102.6
67.5°	117.3	106.3	99.4	95.3	93.0	93.4	91.2	89.3	89.3	88.9	88.4
70°	94.8	87.9	82.0	79.7	78.8	77.9	77.0	75.6	75.1	75.1	75.1
72.5°	74.7	70.1	66.9	65.5	64.6	63.7	62.8	62.8	62.8	62.3	62.3
75°	57.3	55.4	53.1	51.8	51.8	52.7	51.3	49.9	48.6	47.6	48.1
77.5°	43.1	42.1	40.8	38.5	38.9	38.0	38.0	37.1	37.6	37.6	36.6
80°	31.6	30.2	29.8	28.4	28.9	28.4	27.9	27.9	27.0	27.0	27.0
82.5°	22.0	20.6	20.6	20.2	19.7	19.7	19.2	19.2	19.7	18.8	18.8
85°	13.3	12.8	12.8	11.9	11.9	11.9	11.9	12.4	11.9	11.5	11.5
87.5°	6.0	6.4	6.0	5.5	5.5	5.5	5.0	5.0	4.6	5.0	5.0
90°	13.3	14.0	14.8	15.5	15.9	16.0	16.3	16.6	16.8	17.1	16.8
92.5°	12.7	13.4	14.2	14.9	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	13.3	14.0	14.8	15.5	15.9	16.0	16.1	16.2	16.4	16.5	16.4
97.5°	13.1	13.7	14.4	15.0	15.3	15.4	15.5	15.6	15.8	15.9	15.8
100°	22.8	20.7	18.5	16.4	15.3	15.4	15.5	15.6	15.8	15.9	15.8
102.5°	116.0	87.6	59.1	30.7	16.5	16.5	16.5	16.5	16.5	16.5	16.5
105°	178.4	179.6	180.7	181.8	182.4	180.1	175.6	171.1	166.5	162.0	166.5
107.5°	214.3	214.9	215.6	216.2	216.5	216.8	217.3	217.8	218.3	218.8	218.3
110°	250.9	251.2	251.4	251.7	251.8	252.0	252.4	252.7	253.1	253.5	253.1

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	286.4	286.2	286.1	286.0	285.9	286.2	286.7	287.2	287.7	288.2	287.7
115°	320.8	321.1	321.3	321.6	321.7	321.7	321.7	321.7	321.7	321.7	321.7
117.5°	356.8	356.7	356.6	356.5	356.4	356.4	356.4	356.4	356.4	356.4	356.4
120°	389.0	389.3	389.5	389.8	389.9	389.8	389.5	389.3	389.0	388.8	389.0
122.5°	421.3	421.4	421.5	421.6	421.7	421.6	421.3	421.1	420.8	420.6	420.8
125°	450.5	450.9	451.3	451.7	451.9	452.0	452.1	452.2	452.3	452.4	452.3
127.5°	481.3	481.1	481.0	480.9	480.8	480.7	480.6	480.5	480.4	480.3	480.4
130°	508.2	508.4	508.5	508.6	508.7	508.7	508.7	508.7	508.7	508.7	508.7
132.5°	534.9	535.1	535.2	535.3	535.4	535.3	535.2	535.1	534.9	534.8	534.9
135°	558.9	559.2	559.4	559.7	559.8	559.9	560.2	560.5	560.7	561.0	560.7
137.5°	582.8	583.1	583.3	583.6	583.7	583.6	583.5	583.4	583.2	583.1	583.2
140°	604.6	605.0	605.3	605.7	605.9	606.0	606.1	606.2	606.4	606.5	606.4
142.5°	624.9	625.1	625.4	625.7	625.8	625.8	625.8	625.8	625.8	625.8	625.8
145°	644.1	644.2	644.3	644.4	644.5	644.6	644.9	645.2	645.4	645.7	645.4
147.5°	661.1	661.3	661.4	661.5	661.6	661.7	661.8	661.9	662.1	662.2	662.1
150°	677.5	677.5	677.5	677.5	677.5	677.6	677.7	677.8	678.0	678.1	678.0
152.5°	691.4	691.6	691.9	692.2	692.3	692.2	692.1	692.0	691.8	691.7	691.8
155°	703.6	704.1	704.6	705.1	705.3	705.1	704.7	704.4	704.0	703.6	704.0
157.5°	714.5	715.1	715.8	716.4	716.7	716.4	715.8	715.1	714.5	713.9	714.5
160°	724.9	725.6	726.4	727.1	727.5	727.1	726.4	725.6	724.9	724.1	724.9
162.5°	733.4	734.1	734.9	735.6	736.0	735.6	734.7	733.8	733.0	732.1	733.0
165°	741.0	742.0	743.1	744.1	744.6	744.0	742.9	741.7	740.6	739.4	740.6
167.5°	746.8	748.0	749.1	750.2	750.8	750.2	748.9	747.6	746.4	745.1	746.4
170°	752.4	753.4	754.4	755.4	755.9	755.3	754.0	752.7	751.5	750.2	751.5
172.5°	755.8	756.8	757.8	758.8	759.3	758.6	757.2	755.9	754.5	753.1	754.5
175°	758.2	759.4	760.5	761.6	762.2	761.4	759.9	758.4	756.9	755.4	756.9
177.5°	759.8	760.8	761.8	762.8	763.3	762.5	761.0	759.5	758.0	756.5	758.0
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	611.1	607.9	607.4	607.4	602.4	605.1	599.6	593.7	590.9	590.9	585.9
5°	661.9	658.7	655.5	650.5	650.5	647.7	639.0	630.3	623.9	618.4	612.4
7.5°	714.1	710.9	701.8	696.7	699.5	694.0	682.5	667.9	656.9	648.2	635.8
10°	770.9	762.2	757.6	754.9	745.3	739.3	726.0	704.5	690.8	679.3	663.3
12.5°	817.2	819.9	802.5	803.9	794.3	786.0	765.4	744.8	724.2	708.2	684.4
15°	867.1	858.9	848.3	840.1	836.9	826.8	809.4	781.9	759.5	734.3	707.3
17.5°	906.5	900.1	890.0	882.2	875.4	851.1	836.4	812.2	781.5	756.7	723.7
20°	940.0	934.0	919.8	914.8	902.4	885.0	863.9	826.4	798.9	771.8	739.8
22.5°	954.2	948.2	935.8	929.4	921.6	904.7	884.5	848.8	814.9	781.0	747.1
25°	942.2	942.2	936.3	934.0	927.1	912.0	891.4	861.2	825.0	788.3	748.0
27.5°	884.5	896.0	900.1	902.4	902.4	902.8	888.6	859.3	824.1	788.3	746.2
30°	801.2	820.4	837.3	842.4	851.1	860.7	866.7	852.5	820.9	783.3	741.2
32.5°	696.3	721.0	752.6	760.4	772.3	801.2	817.2	823.1	805.7	772.8	727.9
35°	591.8	623.0	642.2	666.0	677.0	719.6	755.4	776.9	772.8	753.1	712.3
37.5°	500.7	518.5	541.9	567.1	589.1	629.8	674.3	716.0	732.9	723.3	692.6
40°	413.2	434.2	462.2	482.8	497.9	538.7	593.7	639.0	676.1	682.1	663.3
42.5°	351.3	372.4	389.4	411.8	423.7	463.1	511.7	568.5	612.4	635.8	627.6
45°	303.7	316.5	330.3	343.1	357.7	392.6	437.5	499.8	549.2	582.2	585.4
47.5°	262.0	273.5	285.4	297.3	305.5	332.6	373.8	424.6	478.7	524.0	541.9
50°	232.7	238.2	246.9	253.8	263.4	286.7	319.7	363.7	421.0	470.0	493.3
52.5°	203.8	210.7	217.6	223.5	229.9	246.4	276.7	314.7	364.2	414.5	443.4
55°	179.6	185.1	191.5	195.6	199.3	213.9	236.8	266.1	308.7	356.4	392.1
57.5°	159.9	162.2	167.7	169.9	174.1	186.0	202.5	228.6	262.9	309.2	338.5
60°	138.3	142.9	147.0	148.9	152.1	160.3	171.8	196.1	225.8	259.7	293.2
62.5°	120.9	122.8	126.0	128.3	130.5	139.3	148.9	167.2	189.6	218.0	248.7
65°	104.9	105.8	107.6	110.9	112.2	118.6	124.1	137.4	158.5	180.0	210.7
67.5°	88.4	89.3	91.6	93.4	94.8	98.9	104.9	114.5	126.0	149.8	166.7
70°	75.6	75.6	77.0	77.9	79.2	81.1	84.3	91.6	102.1	117.3	132.8
72.5°	63.2	63.2	63.2	64.6	64.6	66.0	67.8	72.8	80.2	92.1	102.1
75°	49.0	49.5	50.4	50.4	50.8	52.7	54.1	55.4	59.1	66.9	76.0
77.5°	37.1	38.0	38.5	37.6	38.5	38.5	40.3	42.1	44.0	46.3	53.1
80°	27.5	27.9	27.0	27.5	27.5	28.4	29.3	28.9	29.8	32.5	34.4
82.5°	18.3	18.8	18.8	18.8	18.8	20.2	20.2	19.7	20.2	20.6	21.1
85°	11.5	11.0	11.0	11.5	11.0	11.0	11.5	11.9	11.5	11.9	12.4
87.5°	5.0	5.0	5.0	5.0	4.6	4.6	5.0	4.6	5.0	4.6	4.1
90°	16.6	16.3	16.0	15.9	15.5	14.8	14.0	13.3	12.5	11.5	10.5
92.5°	15.3	15.3	15.3	15.3	14.9	14.2	13.4	12.7	11.9	10.9	9.9
95°	16.2	16.1	16.0	15.9	15.5	14.8	14.0	13.3	12.5	12.4	12.2
97.5°	15.6	15.5	15.4	15.3	15.0	14.4	13.7	13.1	12.5	25.8	39.0
100°	15.6	15.5	15.4	15.3	16.4	18.5	20.7	22.8	25.0	42.4	59.8
102.5°	16.5	16.5	16.5	16.5	30.7	59.1	87.6	116.0	144.4	142.9	141.3
105°	171.1	175.6	180.1	182.4	181.8	180.7	179.6	178.4	177.3	176.7	176.1
107.5°	217.8	217.3	216.8	216.5	216.2	215.6	214.9	214.3	213.7	212.8	211.9
110°	252.7	252.4	252.0	251.8	251.7	251.4	251.2	250.9	250.7	249.9	249.1

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	287.2	286.7	286.2	285.9	286.0	286.1	286.2	286.4	286.5	286.2	286.0
115°	321.7	321.7	321.7	321.7	321.6	321.3	321.1	320.8	320.6	320.7	320.8
117.5°	356.4	356.4	356.4	356.4	356.5	356.6	356.7	356.8	356.9	356.5	356.1
120°	389.3	389.5	389.8	389.9	389.8	389.5	389.3	389.0	388.8	388.9	389.0
122.5°	421.1	421.3	421.6	421.7	421.6	421.5	421.4	421.3	421.2	420.9	420.7
125°	452.2	452.1	452.0	451.9	451.7	451.3	450.9	450.5	450.1	450.4	450.6
127.5°	480.5	480.6	480.7	480.8	480.9	481.0	481.1	481.3	481.4	480.8	480.2
130°	508.7	508.7	508.7	508.7	508.6	508.5	508.4	508.2	508.1	507.7	507.3
132.5°	535.1	535.2	535.3	535.4	535.3	535.2	535.1	534.9	534.8	534.3	533.8
135°	560.5	560.2	559.9	559.8	559.7	559.4	559.2	558.9	558.7	558.2	557.7
137.5°	583.4	583.5	583.6	583.7	583.6	583.3	583.1	582.8	582.6	582.0	581.3
140°	606.2	606.1	606.0	605.9	605.7	605.3	605.0	604.6	604.2	603.9	603.7
142.5°	625.8	625.8	625.8	625.8	625.7	625.4	625.1	624.9	624.6	624.5	624.4
145°	645.2	644.9	644.6	644.5	644.4	644.3	644.2	644.1	644.0	644.0	644.0
147.5°	661.9	661.8	661.7	661.6	661.5	661.4	661.3	661.1	661.0	661.1	661.3
150°	677.8	677.7	677.6	677.5	677.5	677.5	677.5	677.5	677.5	677.6	677.8
152.5°	692.0	692.1	692.2	692.3	692.2	691.9	691.6	691.4	691.1	691.4	691.6
155°	704.4	704.7	705.1	705.3	705.1	704.6	704.1	703.6	703.1	703.5	703.9
157.5°	715.1	715.8	716.4	716.7	716.4	715.8	715.1	714.5	713.9	714.4	714.9
160°	725.6	726.4	727.1	727.5	727.1	726.4	725.6	724.9	724.1	724.2	724.4
162.5°	733.8	734.7	735.6	736.0	735.6	734.9	734.1	733.4	732.6	732.7	732.9
165°	741.7	742.9	744.0	744.6	744.1	743.1	742.0	741.0	740.0	740.0	740.0
167.5°	747.6	748.9	750.2	750.8	750.2	749.1	748.0	746.8	745.7	745.8	746.0
170°	752.7	754.0	755.3	755.9	755.4	754.4	753.4	752.4	751.4	751.3	751.1
172.5°	755.9	757.2	758.6	759.3	758.8	757.8	756.8	755.8	754.8	754.7	754.5
175°	758.4	759.9	761.4	762.2	761.6	760.5	759.4	758.2	757.1	757.0	756.8
177.5°	759.5	761.0	762.5	763.3	762.8	761.8	760.8	759.8	758.8	758.5	758.3
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	583.1	580.8	579.5	579.0	574.9	572.6	571.2	570.3	568.9	565.3	562.0
5°	605.1	598.7	595.5	591.8	585.4	578.1	572.1	568.5	563.9	556.6	549.7
7.5°	625.7	616.1	609.7	604.6	593.7	581.7	572.1	564.3	555.6	545.6	535.9
10°	647.2	631.7	623.4	615.6	599.6	584.0	570.3	558.8	546.5	533.2	522.7
12.5°	664.2	643.6	634.4	623.4	603.7	585.4	568.0	552.4	536.4	522.2	507.1
15°	683.9	658.2	647.7	633.5	606.5	582.7	560.2	543.3	526.8	505.7	489.7
17.5°	695.3	665.6	650.5	638.1	608.8	579.9	553.8	532.7	513.5	492.4	475.5
20°	706.8	672.9	656.0	638.5	603.7	573.0	545.6	520.4	500.2	477.3	459.9
22.5°	710.5	671.1	653.2	637.2	600.5	566.2	534.6	508.9	485.5	462.6	442.9
25°	710.5	670.6	649.5	628.9	590.4	555.2	523.6	495.6	469.5	446.6	426.9
27.5°	703.1	661.4	639.5	620.7	580.8	542.8	510.3	479.6	454.4	431.5	409.1
30°	694.0	648.2	626.2	603.7	565.3	529.1	493.8	465.4	438.8	412.7	392.6
32.5°	682.5	634.0	609.7	586.8	546.0	508.5	475.9	448.0	422.8	395.8	373.3
35°	666.0	612.9	585.9	565.7	526.3	487.4	456.2	428.7	404.5	376.5	352.3
37.5°	645.0	593.7	566.2	541.4	500.7	464.9	435.6	409.1	385.2	359.6	332.6
40°	620.2	566.6	542.8	516.7	473.6	439.7	412.3	388.4	364.6	340.3	314.2
42.5°	592.3	539.1	512.6	487.4	446.2	412.7	387.1	365.5	343.5	321.1	293.2
45°	558.8	508.9	483.3	459.4	419.6	385.2	361.9	341.3	322.5	299.6	274.8
47.5°	521.3	477.8	451.7	426.0	387.1	357.3	334.4	317.0	300.9	278.0	255.6
50°	484.6	441.6	420.5	394.4	358.7	330.7	307.4	292.7	280.3	257.9	237.7
52.5°	438.4	405.8	385.7	363.2	328.9	300.5	282.2	269.3	254.7	237.3	219.4
55°	397.6	367.4	351.3	330.3	296.4	271.2	255.6	243.7	232.2	216.7	202.5
57.5°	351.3	332.6	316.5	298.2	264.8	243.2	229.5	219.4	208.9	196.1	184.6
60°	302.8	294.1	278.5	263.8	235.4	216.7	205.2	196.1	186.0	175.4	165.8
62.5°	259.7	254.7	245.5	234.1	207.5	191.5	180.0	173.1	165.8	156.2	147.0
65°	219.0	216.7	208.0	199.7	181.4	167.2	157.1	153.0	144.7	137.4	129.2
67.5°	182.8	180.0	175.0	171.3	155.7	142.5	137.4	131.9	125.1	119.6	112.7
70°	146.1	145.7	142.5	137.9	129.6	120.0	115.0	111.3	104.4	100.3	95.3
72.5°	113.6	115.9	113.1	111.3	105.8	98.9	94.4	92.1	86.6	83.4	79.7
75°	84.7	86.6	87.9	84.7	83.4	80.2	76.0	73.7	71.0	66.4	65.0
77.5°	57.7	61.8	61.8	62.8	63.2	61.4	58.2	56.3	53.1	52.2	50.4
80°	38.0	41.7	42.1	43.1	44.4	44.4	42.1	41.7	38.5	38.0	36.6
82.5°	22.0	25.2	27.0	28.4	27.9	29.8	27.9	27.5	25.7	25.7	24.7
85°	11.9	12.4	13.3	14.2	15.1	16.0	16.0	15.6	15.1	14.7	13.7
87.5°	4.6	4.6	5.0	4.6	5.0	6.0	6.4	6.4	6.0	5.5	4.6
90°	9.5	8.5	8.0	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	8.9	7.9	7.4	7.5	7.8	8.0	8.3	8.5	8.3	8.0	7.8
95°	12.1	12.0	11.9	14.1	18.4	22.7	27.0	31.3	27.0	22.7	18.4
97.5°	52.3	65.6	72.2	70.8	68.0	65.3	62.5	59.7	62.5	65.3	68.0
100°	77.3	94.7	103.4	102.3	100.0	97.7	95.5	93.2	95.5	97.7	100.0
102.5°	139.8	138.3	137.5	136.7	135.2	133.7	132.2	130.7	132.2	133.7	135.2
105°	175.4	174.8	174.5	174.1	173.4	172.6	171.9	171.1	171.9	172.6	173.4
107.5°	211.0	210.1	209.7	209.5	209.1	208.8	208.4	208.0	208.4	208.8	209.1
110°	248.4	247.6	247.2	247.0	246.6	246.3	245.9	245.5	245.9	246.3	246.6

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	285.7	285.4	285.3	284.9	284.2	283.4	282.7	281.9	282.7	283.4	284.2
115°	320.9	321.0	321.1	320.9	320.5	320.2	319.8	319.4	319.8	320.2	320.5
117.5°	355.8	355.4	355.2	355.0	354.5	354.0	353.5	353.0	353.5	354.0	354.5
120°	389.1	389.2	389.3	389.1	388.6	388.1	387.6	387.1	387.6	388.1	388.6
122.5°	420.4	420.1	420.0	419.9	419.6	419.4	419.1	418.9	419.1	419.4	419.6
125°	450.9	451.2	451.3	451.0	450.5	450.0	449.5	449.0	449.5	450.0	450.5
127.5°	479.5	478.9	478.6	478.5	478.4	478.3	478.1	478.0	478.1	478.3	478.4
130°	507.0	506.6	506.4	506.3	506.2	506.1	505.9	505.8	505.9	506.1	506.2
132.5°	533.3	532.8	532.6	532.5	532.2	531.9	531.7	531.4	531.7	531.9	532.2
135°	557.2	556.7	556.4	556.5	556.6	556.7	556.9	557.0	556.9	556.7	556.6
137.5°	580.7	580.0	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7
140°	603.4	603.1	603.0	602.9	602.6	602.4	602.1	601.9	602.1	602.4	602.6
142.5°	624.3	624.2	624.1	623.8	623.3	622.8	622.3	621.8	622.3	622.8	623.3
145°	644.0	644.0	644.0	643.8	643.4	643.1	642.7	642.3	642.7	643.1	643.4
147.5°	661.4	661.5	661.6	661.2	660.5	659.7	659.0	658.2	659.0	659.7	660.5
150°	677.9	678.0	678.1	677.8	677.3	676.8	676.3	675.8	676.3	676.8	677.3
152.5°	691.9	692.2	692.3	692.1	691.7	691.4	691.0	690.6	691.0	691.4	691.7
155°	704.2	704.6	704.8	704.7	704.6	704.5	704.3	704.2	704.3	704.5	704.6
157.5°	715.4	715.9	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1
160°	724.5	724.6	724.7	724.9	725.3	725.6	726.0	726.4	726.0	725.6	725.3
162.5°	733.0	733.1	733.2	733.5	734.0	734.5	735.0	735.5	735.0	734.5	734.0
165°	740.0	740.0	740.0	740.3	741.0	741.6	742.3	742.9	742.3	741.6	741.0
167.5°	746.1	746.2	746.3	746.6	747.2	747.9	748.5	749.1	748.5	747.9	747.2
170°	751.0	750.9	750.8	751.2	751.9	752.7	753.4	754.2	753.4	752.7	751.9
172.5°	754.4	754.3	754.2	754.6	755.3	756.1	756.8	757.6	756.8	756.1	755.3
175°	756.7	756.6	756.5	756.9	757.6	758.4	759.1	759.9	759.1	758.4	757.6
177.5°	758.0	757.7	757.6	758.0	758.9	759.8	760.7	761.6	760.7	759.8	758.9
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	559.3	558.4	557.5	553.8	550.6	545.1	540.5	538.7	538.2	538.7	537.3
5°	543.3	542.8	539.6	533.2	527.2	520.8	516.2	511.7	508.9	508.9	505.7
7.5°	528.2	524.9	522.2	514.0	507.1	498.4	491.5	487.4	485.1	480.1	480.1
10°	512.1	507.5	503.9	496.1	486.0	477.3	468.6	463.6	459.4	455.8	454.4
12.5°	496.1	492.4	485.5	477.3	467.2	456.2	447.1	443.4	433.8	426.0	426.5
15°	481.0	472.7	469.5	457.6	445.7	435.2	421.9	411.3	403.6	398.5	392.1
17.5°	464.0	455.8	449.8	439.7	424.2	407.7	394.9	380.7	372.9	364.2	360.0
20°	445.2	438.4	433.8	417.8	399.0	379.3	365.1	356.4	347.7	341.3	337.6
22.5°	429.2	420.5	415.0	393.5	372.9	353.2	342.2	334.8	327.5	322.0	320.2
25°	408.6	403.6	390.3	371.5	346.3	333.0	323.4	313.8	309.7	306.0	301.9
27.5°	391.6	379.3	370.1	345.4	329.8	314.7	305.1	297.7	292.7	289.0	285.8
30°	370.6	359.1	346.3	325.7	311.5	297.3	288.6	282.6	277.1	274.8	272.1
32.5°	348.6	338.1	325.7	309.2	291.8	280.8	273.9	267.5	263.8	261.6	258.3
35°	328.9	315.6	307.4	291.8	277.6	265.2	258.8	253.3	249.2	248.3	247.8
37.5°	307.8	297.7	290.0	273.9	262.0	251.5	245.5	239.6	237.3	236.8	235.0
40°	289.5	280.8	273.5	258.3	245.5	235.9	231.3	227.7	225.4	225.4	224.9
42.5°	273.5	264.3	257.0	243.2	231.8	223.1	218.0	214.4	213.5	213.9	213.5
45°	255.6	247.8	240.5	226.3	216.7	210.3	204.8	202.9	201.5	202.0	202.5
47.5°	238.7	232.2	224.9	213.5	202.5	195.6	192.4	190.6	190.6	190.6	191.5
50°	223.5	216.2	209.8	197.9	187.8	182.3	179.6	177.3	177.7	178.2	178.6
52.5°	205.7	199.3	194.7	182.8	175.4	168.6	165.4	165.8	165.4	165.4	166.3
55°	190.1	183.7	179.1	168.1	160.8	156.2	153.5	152.1	152.5	151.6	153.5
57.5°	172.7	167.2	164.0	153.5	147.0	142.9	140.6	138.3	139.3	138.8	138.3
60°	157.6	151.2	146.1	138.8	133.3	128.3	126.9	124.6	125.5	124.6	124.1
62.5°	140.2	135.1	131.5	124.1	119.6	115.4	112.2	110.9	110.4	109.0	107.6
65°	122.8	120.0	116.3	109.0	104.4	101.2	99.4	98.0	97.6	93.9	89.8
67.5°	106.7	104.9	101.2	95.7	91.6	88.4	85.7	83.4	80.6	77.9	75.6
70°	91.6	88.9	86.6	81.5	77.9	74.7	71.9	69.2	67.8	65.0	64.1
72.5°	77.0	74.2	71.9	67.3	64.1	60.9	60.0	56.8	55.4	55.0	55.0
75°	61.8	59.5	58.2	54.1	51.3	49.0	47.6	46.7	45.8	44.9	43.5
77.5°	47.2	45.8	44.9	42.1	39.9	38.5	38.0	34.8	33.9	33.0	32.1
80°	34.4	33.9	33.0	30.7	29.8	26.6	26.6	25.7	25.2	25.2	25.2
82.5°	23.4	22.4	22.0	19.7	19.2	18.8	18.3	17.9	18.3	17.9	18.3
85°	12.4	11.9	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.0	11.5
87.5°	4.6	4.6	4.6	4.6	4.1	4.6	4.6	4.1	4.6	4.6	4.6
90°	7.3	8.0	8.5	9.5	10.5	11.5	12.5	13.3	14.0	14.8	15.5
92.5°	7.5	7.4	7.9	8.9	9.9	10.9	11.9	12.7	13.4	14.2	14.9
95°	14.1	11.9	12.0	12.1	12.2	12.4	12.5	13.3	14.0	14.8	15.5
97.5°	70.8	72.2	65.6	52.3	39.0	25.8	12.5	13.1	13.7	14.4	15.0
100°	102.3	103.4	94.7	77.3	59.8	42.4	25.0	22.8	20.7	18.5	16.4
102.5°	136.7	137.5	138.3	139.8	141.3	142.9	144.4	116.0	87.6	59.1	30.7
105°	174.1	174.5	174.8	175.4	176.1	176.7	177.3	178.4	179.6	180.7	181.8
107.5°	209.5	209.7	210.1	211.0	211.9	212.8	213.7	214.3	214.9	215.6	216.2
110°	247.0	247.2	247.6	248.4	249.1	249.9	250.7	250.9	251.2	251.4	251.7

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.9	285.3	285.4	285.7	286.0	286.2	286.5	286.4	286.2	286.1	286.0
115°	320.9	321.1	321.0	320.9	320.8	320.7	320.6	320.8	321.1	321.3	321.6
117.5°	355.0	355.2	355.4	355.8	356.1	356.5	356.9	356.8	356.7	356.6	356.5
120°	389.1	389.3	389.2	389.1	389.0	388.9	388.8	389.0	389.3	389.5	389.8
122.5°	419.9	420.0	420.1	420.4	420.7	420.9	421.2	421.3	421.4	421.5	421.6
125°	451.0	451.3	451.2	450.9	450.6	450.4	450.1	450.5	450.9	451.3	451.7
127.5°	478.5	478.6	478.9	479.5	480.2	480.8	481.4	481.3	481.1	481.0	480.9
130°	506.3	506.4	506.6	507.0	507.3	507.7	508.1	508.2	508.4	508.5	508.6
132.5°	532.5	532.6	532.8	533.3	533.8	534.3	534.8	534.9	535.1	535.2	535.3
135°	556.5	556.4	556.7	557.2	557.7	558.2	558.7	558.9	559.2	559.4	559.7
137.5°	579.7	579.7	580.0	580.7	581.3	582.0	582.6	582.8	583.1	583.3	583.6
140°	602.9	603.0	603.1	603.4	603.7	603.9	604.2	604.6	605.0	605.3	605.7
142.5°	623.8	624.1	624.2	624.3	624.4	624.5	624.6	624.9	625.1	625.4	625.7
145°	643.8	644.0	644.0	644.0	644.0	644.0	644.0	644.1	644.2	644.3	644.4
147.5°	661.2	661.6	661.5	661.4	661.3	661.1	661.0	661.1	661.3	661.4	661.5
150°	677.8	678.1	678.0	677.9	677.8	677.6	677.5	677.5	677.5	677.5	677.5
152.5°	692.1	692.3	692.2	691.9	691.6	691.4	691.1	691.4	691.6	691.9	692.2
155°	704.7	704.8	704.6	704.2	703.9	703.5	703.1	703.6	704.1	704.6	705.1
157.5°	716.1	716.1	715.9	715.4	714.9	714.4	713.9	714.5	715.1	715.8	716.4
160°	724.9	724.7	724.6	724.5	724.4	724.2	724.1	724.9	725.6	726.4	727.1
162.5°	733.5	733.2	733.1	733.0	732.9	732.7	732.6	733.4	734.1	734.9	735.6
165°	740.3	740.0	740.0	740.0	740.0	740.0	740.0	741.0	742.0	743.1	744.1
167.5°	746.6	746.3	746.2	746.1	746.0	745.8	745.7	746.8	748.0	749.1	750.2
170°	751.2	750.8	750.9	751.0	751.1	751.3	751.4	752.4	753.4	754.4	755.4
172.5°	754.6	754.2	754.3	754.4	754.5	754.7	754.8	755.8	756.8	757.8	758.8
175°	756.9	756.5	756.6	756.7	756.8	757.0	757.1	758.2	759.4	760.5	761.6
177.5°	758.0	757.6	757.7	758.0	758.3	758.5	758.8	759.8	760.8	761.8	762.8
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	537.3	539.1	536.9	538.2	535.0	534.6	535.0	535.0	535.5	535.9	536.4
5°	507.1	506.6	503.9	502.0	500.7	502.0	503.0	503.9	503.0	503.9	504.3
7.5°	478.7	477.3	475.9	472.7	473.6	472.7	475.5	474.1	474.1	476.4	478.2
10°	453.5	450.7	449.8	446.2	443.4	442.9	446.2	447.5	448.9	449.8	453.5
12.5°	421.0	416.8	413.6	415.0	407.2	410.4	411.3	409.5	415.0	421.4	417.8
15°	386.1	386.6	380.2	377.9	371.5	373.3	373.8	378.4	382.9	382.5	388.0
17.5°	360.5	357.7	352.3	351.8	349.0	350.4	350.0	353.6	352.3	354.5	359.1
20°	336.7	334.8	330.3	328.4	329.3	328.4	328.9	329.3	330.7	335.8	334.8
22.5°	317.9	315.6	315.6	313.3	310.6	309.7	311.9	313.3	315.1	316.1	318.4
25°	301.4	299.6	297.3	295.9	293.6	294.1	295.5	297.3	298.7	300.5	302.3
27.5°	284.5	284.5	282.2	281.7	280.8	280.3	282.2	283.1	283.1	284.5	286.3
30°	271.2	271.2	268.9	268.4	268.0	268.0	269.3	269.8	270.3	271.6	272.5
32.5°	258.3	257.9	257.0	257.4	257.0	257.4	257.4	257.9	258.8	259.3	261.1
35°	246.4	246.9	246.0	246.0	245.5	246.0	246.9	247.4	247.8	248.7	248.7
37.5°	235.0	235.9	235.4	236.8	236.8	236.8	236.8	237.7	237.7	237.7	237.3
40°	224.9	224.9	224.5	225.4	226.3	226.3	226.7	226.7	227.2	227.2	226.7
42.5°	213.5	214.4	215.7	216.2	217.1	216.7	218.0	217.6	218.0	217.1	216.2
45°	202.9	202.9	204.8	206.6	207.0	207.0	207.0	208.0	207.0	205.7	205.2
47.5°	191.5	192.4	193.3	195.6	196.1	196.1	196.1	196.1	195.1	195.1	195.1
50°	180.0	180.5	180.9	181.9	183.2	182.8	182.8	182.8	184.6	182.8	183.2
52.5°	166.3	166.7	167.2	169.0	168.6	168.6	169.0	169.0	170.4	169.9	169.0
55°	152.5	152.5	153.5	153.5	153.5	154.4	154.8	155.7	155.3	155.7	156.2
57.5°	138.8	137.9	137.4	137.4	138.8	138.3	138.8	138.8	140.6	141.5	142.0
60°	122.8	122.8	122.3	119.6	119.6	119.1	120.5	121.4	122.3	126.4	126.0
62.5°	106.3	104.4	102.6	103.1	100.3	101.7	100.8	101.7	104.4	107.6	108.1
65°	89.8	88.4	86.6	86.1	85.2	86.6	86.1	86.6	87.9	89.8	92.1
67.5°	75.1	74.7	73.7	73.3	73.3	73.3	74.2	74.2	74.7	76.0	77.4
70°	64.1	63.7	64.1	63.2	63.7	63.2	63.7	64.1	64.6	65.0	66.4
72.5°	54.1	54.1	54.1	53.1	54.1	53.6	53.6	54.1	54.5	55.0	55.9
75°	43.1	42.1	41.2	40.3	39.9	40.8	41.2	40.8	42.1	44.0	44.0
77.5°	32.5	32.1	32.1	32.1	32.5	32.1	33.0	32.5	33.0	33.0	33.9
80°	25.2	24.7	25.2	25.2	24.7	25.7	25.2	25.2	25.7	26.1	25.7
82.5°	18.3	18.8	18.3	18.3	18.3	19.2	18.3	18.3	18.3	18.8	18.8
85°	11.5	11.5	11.5	11.5	11.9	11.5	11.9	11.5	12.4	11.9	11.9
87.5°	4.1	4.6	5.0	5.0	5.0	5.0	4.6	5.0	5.5	5.0	5.5
90°	15.9	16.0	16.3	16.6	16.8	17.1	16.8	16.6	16.3	16.0	15.9
92.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	15.9	16.0	16.1	16.2	16.4	16.5	16.4	16.2	16.1	16.0	15.9
97.5°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
100°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
102.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
105°	182.4	180.1	175.6	171.1	166.5	162.0	166.5	171.1	175.6	180.1	182.4
107.5°	216.5	216.8	217.3	217.8	218.3	218.8	218.3	217.8	217.3	216.8	216.5
110°	251.8	252.0	252.4	252.7	253.1	253.5	253.1	252.7	252.4	252.0	251.8

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	285.9	286.2	286.7	287.2	287.7	288.2	287.7	287.2	286.7	286.2	285.9
115°	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7
117.5°	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4
120°	389.9	389.8	389.5	389.3	389.0	388.8	389.0	389.3	389.5	389.8	389.9
122.5°	421.7	421.6	421.3	421.1	420.8	420.6	420.8	421.1	421.3	421.6	421.7
125°	451.9	452.0	452.1	452.2	452.3	452.4	452.3	452.2	452.1	452.0	451.9
127.5°	480.8	480.7	480.6	480.5	480.4	480.3	480.4	480.5	480.6	480.7	480.8
130°	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7
132.5°	535.4	535.3	535.2	535.1	534.9	534.8	534.9	535.1	535.2	535.3	535.4
135°	559.8	559.9	560.2	560.5	560.7	561.0	560.7	560.5	560.2	559.9	559.8
137.5°	583.7	583.6	583.5	583.4	583.2	583.1	583.2	583.4	583.5	583.6	583.7
140°	605.9	606.0	606.1	606.2	606.4	606.5	606.4	606.2	606.1	606.0	605.9
142.5°	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8
145°	644.5	644.6	644.9	645.2	645.4	645.7	645.4	645.2	644.9	644.6	644.5
147.5°	661.6	661.7	661.8	661.9	662.1	662.2	662.1	661.9	661.8	661.7	661.6
150°	677.5	677.6	677.7	677.8	678.0	678.1	678.0	677.8	677.7	677.6	677.5
152.5°	692.3	692.2	692.1	692.0	691.8	691.7	691.8	692.0	692.1	692.2	692.3
155°	705.3	705.1	704.7	704.4	704.0	703.6	704.0	704.4	704.7	705.1	705.3
157.5°	716.7	716.4	715.8	715.1	714.5	713.9	714.5	715.1	715.8	716.4	716.7
160°	727.5	727.1	726.4	725.6	724.9	724.1	724.9	725.6	726.4	727.1	727.5
162.5°	736.0	735.6	734.7	733.8	733.0	732.1	733.0	733.8	734.7	735.6	736.0
165°	744.6	744.0	742.9	741.7	740.6	739.4	740.6	741.7	742.9	744.0	744.6
167.5°	750.8	750.2	748.9	747.6	746.4	745.1	746.4	747.6	748.9	750.2	750.8
170°	755.9	755.3	754.0	752.7	751.5	750.2	751.5	752.7	754.0	755.3	755.9
172.5°	759.3	758.6	757.2	755.9	754.5	753.1	754.5	755.9	757.2	758.6	759.3
175°	762.2	761.4	759.9	758.4	756.9	755.4	756.9	758.4	759.9	761.4	762.2
177.5°	763.3	762.5	761.0	759.5	758.0	756.5	758.0	759.5	761.0	762.5	763.3
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	538.2	540.5	539.6	536.4	537.8	540.5	543.3	546.9	549.2	551.1	552.0
5°	506.6	510.7	509.8	509.8	511.7	516.2	520.8	528.6	531.4	534.6	539.1
7.5°	478.7	481.9	484.6	485.5	488.3	494.3	500.2	508.9	515.8	519.4	522.2
10°	453.9	456.2	460.4	462.6	465.4	472.7	481.4	490.6	497.5	503.9	507.5
12.5°	422.3	431.5	437.0	440.7	444.3	455.3	462.2	472.3	480.5	486.5	492.0
15°	387.1	398.1	401.3	415.5	424.6	433.3	443.9	455.8	463.6	470.4	477.8
17.5°	357.3	365.1	368.7	383.9	391.6	405.4	420.5	435.6	447.5	452.6	459.9
20°	338.5	342.6	350.0	355.0	363.2	379.3	395.8	414.1	432.0	437.0	444.3
22.5°	319.3	324.8	329.8	336.7	343.1	354.1	370.6	390.7	410.0	419.1	427.8
25°	301.9	307.4	310.6	317.9	323.9	334.8	346.3	366.9	389.8	397.6	411.3
27.5°	288.1	291.3	296.8	300.0	306.9	317.0	327.5	343.1	365.5	378.8	392.1
30°	274.4	276.7	281.3	285.8	290.9	297.7	309.7	324.8	345.4	356.8	370.1
32.5°	260.6	264.3	267.1	270.3	275.8	284.0	292.2	306.9	323.4	336.2	349.5
35°	249.2	250.6	254.2	257.9	261.6	268.9	277.6	291.8	306.4	316.5	328.4
37.5°	236.8	239.1	241.9	243.2	249.2	253.8	262.9	273.9	291.3	297.7	309.7
40°	227.2	226.7	229.5	231.8	234.5	241.9	247.4	259.3	273.0	283.1	290.4
42.5°	215.3	215.3	216.2	219.0	222.6	227.2	233.6	243.7	257.9	265.2	273.9
45°	205.7	204.3	204.8	206.6	208.9	213.5	219.9	228.6	242.8	248.7	257.9
47.5°	194.2	192.8	192.8	194.7	196.5	199.7	204.8	214.8	226.3	234.1	240.9
50°	181.4	181.9	181.4	182.8	183.7	186.9	192.4	200.6	211.2	217.6	225.4
52.5°	169.5	168.6	168.1	169.0	170.9	173.1	179.1	186.4	196.5	202.9	209.8
55°	154.8	155.7	155.7	155.7	158.5	159.4	164.0	171.3	181.4	186.4	192.8
57.5°	141.5	141.1	142.0	141.5	143.8	147.0	150.7	156.2	166.3	171.3	177.3
60°	126.9	127.3	127.8	127.8	129.6	132.8	137.0	142.0	150.2	155.3	160.8
62.5°	109.0	111.3	113.6	114.5	117.3	119.6	122.3	127.8	135.1	138.8	143.8
65°	92.1	95.3	98.5	100.8	102.6	104.9	108.6	113.6	119.6	123.2	128.3
67.5°	77.4	79.7	83.8	86.1	89.8	92.5	94.8	98.9	106.3	107.6	111.8
70°	66.9	67.8	69.6	71.5	75.6	77.9	80.6	84.7	90.2	93.4	95.7
72.5°	56.3	56.8	57.7	59.5	61.4	64.1	67.3	71.0	76.0	77.4	80.6
75°	44.9	47.6	47.6	49.0	50.4	51.8	54.5	58.2	61.4	63.7	65.5
77.5°	33.4	34.8	35.7	38.0	39.9	41.2	43.1	45.8	47.6	49.5	50.8
80°	26.1	26.6	27.0	27.0	27.9	29.8	31.6	33.4	35.7	36.6	38.0
82.5°	19.2	19.2	19.2	20.2	20.6	21.1	21.1	22.0	24.3	25.2	26.6
85°	12.4	12.4	12.4	12.4	12.8	13.3	13.7	14.2	14.2	14.2	15.1
87.5°	5.0	6.0	5.5	6.0	6.0	6.0	6.0	6.4	6.4	6.9	6.9
90°	15.5	14.8	14.0	13.3	12.5	11.5	10.5	9.5	8.5	8.0	7.3
92.5°	14.9	14.2	13.4	12.7	11.9	10.9	9.9	8.9	7.9	7.4	7.5
95°	15.5	14.8	14.0	13.3	12.5	12.4	12.2	12.1	12.0	11.9	14.1
97.5°	15.0	14.4	13.7	13.1	12.5	25.8	39.0	52.3	65.6	72.2	70.8
100°	16.4	18.5	20.7	22.8	25.0	42.4	59.8	77.3	94.7	103.4	102.3
102.5°	30.7	59.1	87.6	116.0	144.4	142.9	141.3	139.8	138.3	137.5	136.7
105°	181.8	180.7	179.6	178.4	177.3	176.7	176.1	175.4	174.8	174.5	174.1
107.5°	216.2	215.6	214.9	214.3	213.7	212.8	211.9	211.0	210.1	209.7	209.5
110°	251.7	251.4	251.2	250.9	250.7	249.9	249.1	248.4	247.6	247.2	247.0

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	286.0	286.1	286.2	286.4	286.5	286.2	286.0	285.7	285.4	285.3	284.9
115°	321.6	321.3	321.1	320.8	320.6	320.7	320.8	320.9	321.0	321.1	320.9
117.5°	356.5	356.6	356.7	356.8	356.9	356.5	356.1	355.8	355.4	355.2	355.0
120°	389.8	389.5	389.3	389.0	388.8	388.9	389.0	389.1	389.2	389.3	389.1
122.5°	421.6	421.5	421.4	421.3	421.2	420.9	420.7	420.4	420.1	420.0	419.9
125°	451.7	451.3	450.9	450.5	450.1	450.4	450.6	450.9	451.2	451.3	451.0
127.5°	480.9	481.0	481.1	481.3	481.4	480.8	480.2	479.5	478.9	478.6	478.5
130°	508.6	508.5	508.4	508.2	508.1	507.7	507.3	507.0	506.6	506.4	506.3
132.5°	535.3	535.2	535.1	534.9	534.8	534.3	533.8	533.3	532.8	532.6	532.5
135°	559.7	559.4	559.2	558.9	558.7	558.2	557.7	557.2	556.7	556.4	556.5
137.5°	583.6	583.3	583.1	582.8	582.6	582.0	581.3	580.7	580.0	579.7	579.7
140°	605.7	605.3	605.0	604.6	604.2	603.9	603.7	603.4	603.1	603.0	602.9
142.5°	625.7	625.4	625.1	624.9	624.6	624.5	624.4	624.3	624.2	624.1	623.8
145°	644.4	644.3	644.2	644.1	644.0	644.0	644.0	644.0	644.0	644.0	643.8
147.5°	661.5	661.4	661.3	661.1	661.0	661.1	661.3	661.4	661.5	661.6	661.2
150°	677.5	677.5	677.5	677.5	677.5	677.6	677.8	677.9	678.0	678.1	677.8
152.5°	692.2	691.9	691.6	691.4	691.1	691.4	691.6	691.9	692.2	692.3	692.1
155°	705.1	704.6	704.1	703.6	703.1	703.5	703.9	704.2	704.6	704.8	704.7
157.5°	716.4	715.8	715.1	714.5	713.9	714.4	714.9	715.4	715.9	716.1	716.1
160°	727.1	726.4	725.6	724.9	724.1	724.2	724.4	724.5	724.6	724.7	724.9
162.5°	735.6	734.9	734.1	733.4	732.6	732.7	732.9	733.0	733.1	733.2	733.5
165°	744.1	743.1	742.0	741.0	740.0	740.0	740.0	740.0	740.0	740.0	740.3
167.5°	750.2	749.1	748.0	746.8	745.7	745.8	746.0	746.1	746.2	746.3	746.6
170°	755.4	754.4	753.4	752.4	751.4	751.3	751.1	751.0	750.9	750.8	751.2
172.5°	758.8	757.8	756.8	755.8	754.8	754.7	754.5	754.4	754.3	754.2	754.6
175°	761.6	760.5	759.4	758.2	757.1	757.0	756.8	756.7	756.6	756.5	756.9
177.5°	762.8	761.8	760.8	759.8	758.8	758.5	758.3	758.0	757.7	757.6	758.0
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	568.5	568.5	568.5	568.5
2.5°	555.6	558.4	563.0	569.4
5°	542.8	550.6	557.9	567.5
7.5°	531.4	540.5	550.6	564.3
10°	518.1	529.5	542.4	559.3
12.5°	502.5	518.5	533.2	551.5
15°	491.0	503.0	521.7	543.3
17.5°	475.0	491.0	509.8	534.1
20°	459.9	476.8	497.9	523.1
22.5°	443.9	463.1	484.2	511.2
25°	427.4	448.0	469.1	497.9
27.5°	412.3	431.0	454.9	484.2
30°	393.9	415.5	438.4	469.1
32.5°	376.1	398.5	421.9	452.6
35°	356.8	379.3	404.9	434.2
37.5°	338.1	362.8	386.1	414.5
40°	317.4	343.1	367.4	396.2
42.5°	297.3	323.9	348.1	372.9
45°	278.5	304.6	326.6	350.0
47.5°	260.6	284.0	306.4	327.5
50°	243.2	262.9	283.5	300.9
52.5°	224.9	243.7	260.2	275.8
55°	208.4	223.1	237.7	251.9
57.5°	188.7	203.4	216.2	227.2
60°	172.2	181.4	193.8	205.2
62.5°	153.5	164.0	173.6	180.9
65°	135.1	144.3	151.6	158.0
67.5°	119.6	125.1	130.5	137.4
70°	100.8	105.4	111.8	116.8
72.5°	84.7	88.4	91.6	97.6
75°	68.7	71.9	73.7	79.2
77.5°	53.1	56.3	57.7	60.9
80°	40.8	41.2	43.1	45.8
82.5°	27.9	28.9	29.3	31.6
85°	16.0	18.3	17.9	18.8
87.5°	6.9	7.3	8.2	9.2
90°	5.9	4.5	3.1	1.7
92.5°	7.8	8.0	8.3	8.5
95°	18.4	22.7	27.0	31.3
97.5°	68.0	65.3	62.5	59.7
100°	100.0	97.7	95.5	93.2
102.5°	135.2	133.7	132.2	130.7
105°	173.4	172.6	171.9	171.1
107.5°	209.1	208.8	208.4	208.0
110°	246.6	246.3	245.9	245.5

TEST NUMBER: P1013331

CATALOG NUMBER: S124RDIP-B350D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	284.2	283.4	282.7	281.9
115°	320.5	320.2	319.8	319.4
117.5°	354.5	354.0	353.5	353.0
120°	388.6	388.1	387.6	387.1
122.5°	419.6	419.4	419.1	418.9
125°	450.5	450.0	449.5	449.0
127.5°	478.4	478.3	478.1	478.0
130°	506.2	506.1	505.9	505.8
132.5°	532.2	531.9	531.7	531.4
135°	556.6	556.7	556.9	557.0
137.5°	579.7	579.7	579.7	579.7
140°	602.6	602.4	602.1	601.9
142.5°	623.3	622.8	622.3	621.8
145°	643.4	643.1	642.7	642.3
147.5°	660.5	659.7	659.0	658.2
150°	677.3	676.8	676.3	675.8
152.5°	691.7	691.4	691.0	690.6
155°	704.6	704.5	704.3	704.2
157.5°	716.1	716.1	716.1	716.1
160°	725.3	725.6	726.0	726.4
162.5°	734.0	734.5	735.0	735.5
165°	741.0	741.6	742.3	742.9
167.5°	747.2	747.9	748.5	749.1
170°	751.9	752.7	753.4	754.2
172.5°	755.3	756.1	756.8	757.6
175°	757.6	758.4	759.1	759.9
177.5°	758.9	759.8	760.7	761.6
180°	759.9	759.9	759.9	759.9

(END OF REPORT)