

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: METALUX

Report Number: P1212963

Luminaire Tested: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

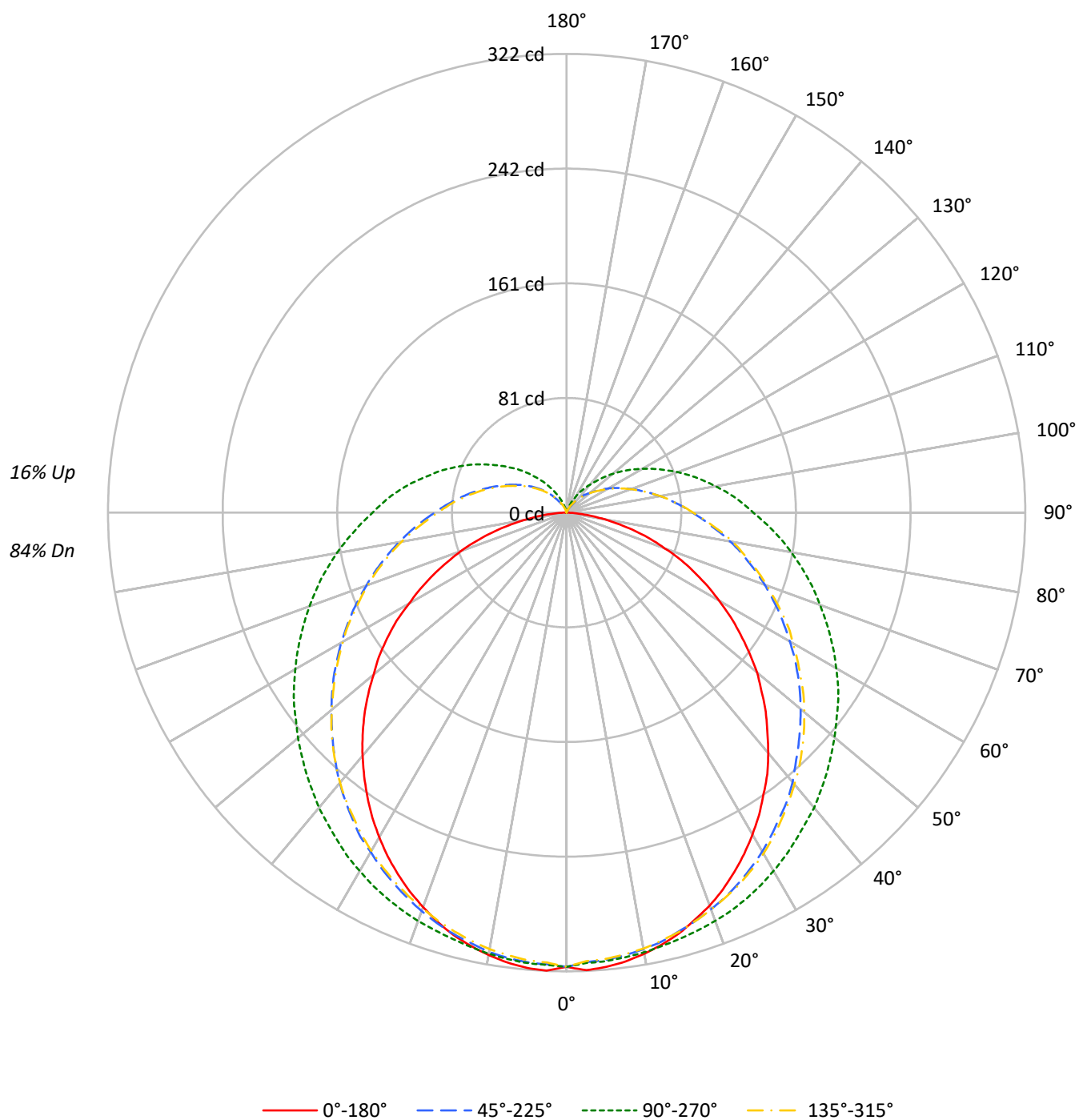
Lumens per Lamp: N/A
Luminaire Lumens: 1385.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 14
Input Voltage (V): NR
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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CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84		
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64		
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51		
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42		
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35		
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30		
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26		
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23		
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20		
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18		
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5152	5152	5152	5152
5°	5165	4965	5176	4986
10°	5103	4824	5120	4839
15°	5031	4704	5052	4708
20°	4937	4615	4954	4615
25°	4824	4536	4854	4532
30°	4699	4456	4737	4456
35°	4558	4382	4609	4387
40°	4416	4338	4468	4338
45°	4253	4293	4320	4298
50°	4083	4265	4140	4277
55°	3854	4269	3976	4287
60°	3608	4282	3728	4307
65°	3335	4324	3480	4367
70°	2956	4404	3186	4466
75°	2522	4549	2760	4635
80°	1869	4762	2123	4873
85°	1017	5103	1276	5244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 5864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	2.2
10°-20°	86.8	6.3
20°-30°	133.1	9.6
30°-40°	164.2	11.9
40°-50°	178.1	12.9
50°-60°	175.5	12.7
60°-70°	158.7	11.5
70°-80°	132.2	9.5
80°-90°	102.4	7.4
90°-100°	77.7	5.6
100°-110°	57.5	4.1
110°-120°	40.0	2.9
120°-130°	25.5	1.8
130°-140°	14.3	1.0
140°-150°	6.5	0.5
150°-160°	2.0	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	250.1	18.1
0°-40°	414.2	29.9
0°-60°	767.9	55.4
0°-90°	1161.2	83.8
90°-120°	175.1	12.6
90°-150°	221.5	16.0
90°-180°	224.0	16.2
0°-180°	1385.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	319	319	319	319	319	
5°	320	316	321	317	320	30
15°	306	309	307	310	306	86
25°	278	299	280	299	278	128
35°	241	280	244	281	241	151
45°	198	258	201	259	198	152
55°	149	233	154	234	149	133
65°	99	204	103	206	99	98
75°	50	175	54	178	50	53
85°	9	146	12	150	9	11
90°	0	131	1	136	0	0
95°	0	119	0	125	0	0
105°	0	94	0	100	0	0
115°	0	72	0	78	0	0
125°	0	52	0	58	0	0
135°	0	34	0	40	0	0
145°	0	20	0	24	0	0
155°	0	8	0	11	0	0
165°	0	1	0	2	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	321.5	321.5	321.1	320.5	320.8	321.8	321.1	319.5	318.5	315.8	316.4
5°	320.1	320.1	319.8	319.1	319.5	320.8	320.1	318.8	317.4	315.1	316.1
7.5°	317.8	317.8	317.4	316.8	317.4	318.8	318.1	316.8	315.8	313.4	314.4
10°	314.4	314.8	314.4	313.4	314.8	316.1	315.8	314.1	313.1	311.1	312.1
12.5°	310.4	310.7	310.4	310.0	310.7	312.7	312.1	310.7	310.0	308.4	309.4
15°	305.7	306.0	305.3	305.3	306.0	308.0	308.0	306.7	306.0	304.3	306.3
17.5°	299.6	300.0	299.6	299.6	300.3	302.3	302.6	302.0	301.3	300.6	302.6
20°	293.6	293.2	293.2	292.9	294.2	297.3	296.9	296.9	296.3	296.3	298.6
22.5°	286.5	286.5	286.2	286.2	287.8	290.5	290.5	291.2	290.5	291.9	293.9
25°	278.4	278.8	278.4	279.1	280.5	283.5	283.8	284.8	285.2	286.5	288.9
27.5°	270.0	270.4	270.0	270.7	273.1	275.4	277.1	278.4	278.8	280.8	283.8
30°	260.9	260.9	261.3	262.0	264.6	268.3	269.7	271.4	271.4	274.7	277.8
32.5°	251.5	251.5	251.5	252.9	255.9	260.3	262.0	264.0	264.6	268.0	271.4
35°	241.1	241.4	241.4	242.5	246.5	250.9	253.2	255.6	256.9	260.9	264.3
37.5°	231.4	232.0	231.0	232.4	238.1	241.8	244.5	246.8	249.2	254.6	257.2
40°	220.3	220.9	220.6	223.3	228.0	232.7	235.7	238.1	241.4	246.8	249.9
42.5°	208.5	209.2	209.8	212.9	217.9	222.6	226.3	229.3	233.4	238.1	243.1
45°	197.7	197.7	198.7	202.4	207.8	212.9	217.2	220.6	225.3	230.3	235.4
47.5°	185.6	186.0	187.3	191.7	197.4	203.4	207.5	211.9	216.9	222.3	228.0
50°	174.5	174.5	176.5	181.3	186.6	193.4	197.7	202.8	208.2	214.5	220.3
52.5°	161.7	162.4	165.4	169.8	176.9	182.9	188.0	193.4	199.7	206.5	212.9
55°	149.0	150.3	152.7	158.7	166.1	171.8	177.9	184.6	190.7	198.1	205.5
57.5°	136.5	137.5	141.2	147.3	155.0	162.1	168.5	174.9	182.3	189.7	197.4
60°	123.7	125.1	129.5	135.5	143.9	151.3	158.7	165.4	173.2	180.9	189.0
62.5°	111.6	112.7	117.7	124.8	133.2	141.2	148.6	156.7	165.1	172.5	180.6
65°	98.9	100.5	106.3	112.7	122.4	130.5	138.9	147.6	156.4	164.4	172.2
67.5°	87.1	88.1	94.2	101.6	111.3	120.4	129.1	138.5	147.6	156.0	163.8
70°	73.3	76.7	82.7	90.5	100.9	110.3	119.7	129.5	139.2	148.0	155.4
72.5°	61.9	64.6	71.3	79.7	89.8	100.9	110.6	121.1	130.8	139.9	147.6
75°	49.8	52.5	60.2	69.6	80.0	91.8	101.9	112.7	122.7	131.8	139.9
77.5°	38.0	41.4	49.8	59.5	71.0	83.1	93.5	104.2	114.7	124.4	132.5
80°	27.2	30.9	40.0	51.1	62.2	74.3	85.7	96.5	106.9	116.7	125.1
82.5°	17.5	21.5	31.3	42.4	54.1	66.2	78.0	88.8	99.2	109.0	117.7
85°	9.4	13.8	23.9	35.0	46.7	58.8	70.6	82.1	92.1	101.2	110.6
87.5°	2.7	8.1	17.8	28.9	41.0	52.1	63.6	75.0	85.1	94.8	103.2
90°	0.3	4.7	13.5	23.9	35.6	46.4	57.8	68.6	78.7	88.4	96.8
92.5°	0.3	3.0	10.4	19.8	30.6	41.7	53.1	63.6	73.0	82.7	91.1
95°	0.3	2.4	8.4	16.8	26.9	37.3	48.1	58.2	67.9	77.0	85.4
97.5°	0.3	1.7	6.7	14.5	23.5	33.3	43.7	53.8	63.2	72.0	79.7
100°	0.3	1.3	5.4	12.4	20.5	29.9	39.3	49.1	58.2	66.6	74.7
102.5°	0.3	1.0	4.7	10.4	18.2	26.6	35.6	44.7	53.5	61.5	69.6
105°	0.3	1.0	4.0	9.1	16.1	23.9	32.3	41.0	49.1	56.8	64.2
107.5°	0.3	0.7	3.4	7.7	14.1	21.5	29.3	37.7	45.1	52.5	59.5
110°	0.3	0.7	2.7	7.1	12.4	19.2	26.6	34.3	41.4	48.4	55.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.3	0.7	2.4	6.1	10.8	17.1	23.9	30.9	37.7	44.7	50.8
115°	0.3	0.7	2.0	5.4	10.1	14.8	21.5	27.9	34.6	41.0	46.7
117.5°	0.3	0.7	1.7	4.4	8.7	13.5	18.8	25.2	31.3	37.3	42.7
120°	0.3	0.7	1.3	4.0	7.7	12.1	16.8	22.5	28.2	34.0	39.7
122.5°	0.3	0.3	1.3	3.4	6.7	10.8	15.5	19.8	25.2	30.6	35.6
125°	0.3	0.3	1.3	3.0	5.7	9.8	13.8	17.8	22.5	27.2	31.6
127.5°	0.3	0.3	1.0	2.4	5.0	8.4	12.1	16.5	19.8	24.2	28.6
130°	0.3	0.3	1.0	2.0	4.4	7.1	10.8	14.5	18.5	21.5	25.2
132.5°	0.3	0.3	1.0	1.7	3.4	5.7	9.1	12.4	16.1	19.5	22.5
135°	0.3	0.3	0.7	1.3	2.7	4.7	7.4	10.4	14.1	17.5	20.5
137.5°	0.3	0.3	0.7	1.3	2.0	4.0	5.7	8.4	11.8	14.8	17.8
140°	0.3	0.3	0.7	1.0	1.7	3.0	4.7	6.7	9.4	12.1	15.5
142.5°	0.3	0.3	0.3	1.0	1.3	2.4	3.7	5.4	7.4	9.8	12.4
145°	0.3	0.3	0.3	1.0	1.3	1.7	3.0	4.4	5.7	7.4	9.8
147.5°	0.3	0.3	0.3	0.7	1.0	1.3	2.4	3.4	4.4	5.7	7.1
150°	0.3	0.3	0.3	0.7	1.0	1.3	1.7	2.4	3.4	4.7	5.7
152.5°	0.3	0.3	0.3	0.7	0.7	1.0	1.3	1.7	2.4	3.4	4.0
155°	0.3	0.3	0.3	0.3	0.7	1.0	1.3	1.3	1.7	2.4	3.0
157.5°	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0	1.3	1.3	2.0
160°	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0	1.0	1.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	1.0	1.0
165°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	316.4	316.8	317.8	317.8	317.1	317.1	316.8	316.4	316.8	317.4	317.4
5°	315.8	316.1	317.1	317.4	316.8	316.4	316.4	316.1	316.4	317.1	317.1
7.5°	314.4	314.8	315.8	316.1	315.4	315.4	315.1	314.8	315.4	315.8	315.8
10°	312.4	312.7	314.1	314.4	314.1	313.7	313.7	313.4	313.7	314.4	314.4
12.5°	309.7	310.4	312.1	312.1	312.1	311.7	311.7	311.4	311.7	312.4	312.1
15°	306.7	308.0	309.4	310.0	310.0	310.0	309.7	309.4	310.0	310.4	310.0
17.5°	303.3	305.0	307.0	307.7	307.7	308.0	307.7	307.4	308.0	308.0	307.7
20°	300.0	301.6	303.7	304.3	305.0	305.3	305.3	305.0	305.3	305.7	305.3
22.5°	295.6	297.6	300.0	301.0	301.6	302.3	302.3	302.3	302.6	303.0	302.3
25°	290.9	293.2	295.9	296.9	298.3	298.6	298.9	298.9	299.3	299.6	298.6
27.5°	285.8	288.5	291.2	292.9	293.9	294.6	294.6	294.9	295.2	295.6	294.6
30°	279.8	283.8	286.2	287.5	288.9	289.9	290.2	290.5	290.9	291.2	290.2
32.5°	274.4	277.8	280.8	282.5	284.2	285.5	285.8	285.8	286.5	286.5	285.5
35°	268.0	272.0	275.1	276.8	278.8	279.8	280.5	280.5	281.1	281.1	280.1
37.5°	261.6	265.7	269.0	271.0	273.4	274.7	275.1	275.1	275.7	275.7	274.4
40°	254.9	259.3	263.0	265.3	267.3	269.0	269.4	270.4	270.4	270.0	268.7
42.5°	248.2	252.2	256.2	258.9	261.6	263.3	264.0	264.3	264.3	264.0	263.0
45°	240.8	245.5	249.2	252.5	255.2	256.9	257.9	258.3	258.3	257.6	256.6
47.5°	233.7	238.4	242.1	245.8	248.5	250.5	251.5	251.9	251.5	251.2	250.2
50°	226.3	231.7	235.4	239.1	241.8	243.5	245.1	245.5	245.1	244.8	242.8
52.5°	218.6	224.3	228.3	232.0	235.1	237.1	238.4	238.8	238.8	238.1	236.7
55°	210.8	215.9	220.9	225.0	228.3	230.3	232.0	232.7	232.0	231.4	229.7
57.5°	203.8	208.5	213.5	217.9	221.3	224.0	225.3	226.0	225.3	224.3	222.6
60°	195.4	200.4	206.1	210.2	213.9	216.6	217.2	218.6	217.9	216.9	215.2
62.5°	187.3	193.4	198.4	203.4	206.5	209.5	210.8	211.5	210.8	209.8	208.2
65°	178.9	185.6	190.7	195.7	199.1	202.1	203.8	204.1	203.4	202.4	200.8
67.5°	171.2	177.6	182.9	188.3	191.3	194.4	196.0	196.7	196.0	194.7	193.0
70°	163.4	169.8	176.2	180.2	183.9	187.3	188.3	189.3	188.6	187.3	185.3
72.5°	155.7	162.4	168.8	172.8	176.9	179.9	181.3	182.3	181.6	180.2	177.9
75°	147.6	154.7	161.1	165.4	169.5	172.5	173.9	174.9	174.2	172.8	170.2
77.5°	140.2	147.3	153.3	158.0	162.1	164.8	167.1	167.5	166.8	165.4	162.8
80°	132.5	139.6	145.9	150.7	154.7	157.4	159.1	160.1	159.4	158.0	155.4
82.5°	125.8	132.2	138.5	143.3	147.3	150.7	152.0	153.0	152.7	150.7	148.6
85°	118.4	125.8	130.8	135.9	139.9	143.3	144.3	145.6	145.3	143.6	140.9
87.5°	111.0	118.4	124.4	129.5	133.2	135.9	137.5	138.2	137.9	136.2	133.2
90°	104.9	111.6	117.7	123.1	126.1	129.1	130.8	131.1	131.1	129.1	126.8
92.5°	99.2	105.6	111.6	116.7	120.4	123.1	124.4	125.1	124.8	123.1	120.4
95°	92.8	99.9	105.6	110.6	114.3	117.0	118.4	119.0	118.7	117.0	114.3
97.5°	87.4	93.8	99.5	104.2	107.9	110.6	112.0	112.7	112.7	111.0	108.3
100°	82.1	88.4	93.8	98.5	101.9	104.6	105.9	106.3	105.9	104.6	101.9
102.5°	76.7	82.7	88.1	92.5	96.2	98.5	99.9	100.2	100.2	98.5	95.8
105°	71.3	77.3	82.4	87.1	90.1	92.5	93.5	94.5	94.2	92.8	90.1
107.5°	66.2	72.3	77.0	81.4	84.4	86.8	87.8	88.8	88.4	87.1	84.4
110°	61.5	67.3	71.6	76.0	78.7	81.0	82.7	83.1	82.4	81.0	78.7



TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	57.2	62.2	66.6	70.6	73.6	75.3	76.7	77.3	76.7	75.3	73.6
115°	52.5	57.5	61.9	65.6	68.3	70.3	71.3	72.0	71.3	69.9	68.3
117.5°	48.1	52.8	57.2	60.9	63.2	64.9	65.9	66.6	65.9	64.9	63.2
120°	44.4	48.4	52.5	55.8	58.5	59.9	60.9	61.5	61.2	59.9	58.2
122.5°	40.0	44.4	48.1	51.4	53.8	55.1	55.8	56.5	56.2	55.1	53.5
125°	36.3	40.0	43.7	46.7	49.1	50.4	51.1	51.8	51.4	50.4	48.4
127.5°	32.3	36.3	39.3	42.4	44.1	46.1	46.4	47.1	46.7	45.7	44.1
130°	29.3	32.3	35.3	38.0	40.0	41.4	42.0	42.4	41.7	41.0	39.3
132.5°	25.6	28.9	31.6	34.0	35.3	36.7	37.3	37.7	37.7	36.7	35.3
135°	22.9	25.2	27.6	29.9	31.3	32.6	33.3	33.6	33.3	32.6	31.3
137.5°	20.5	22.5	24.2	26.2	27.9	28.6	29.3	29.3	28.9	28.6	27.6
140°	17.8	20.2	21.9	23.2	24.5	24.9	25.6	25.6	25.2	24.9	24.2
142.5°	15.1	17.1	18.8	20.5	21.5	22.2	22.5	22.9	22.5	22.2	21.2
145°	12.1	14.5	16.1	17.1	18.5	18.8	19.2	19.5	19.2	18.8	17.8
147.5°	9.4	11.4	13.1	14.5	15.5	15.8	16.1	16.5	16.1	15.5	15.1
150°	6.7	8.4	10.4	11.8	12.4	13.1	13.1	13.1	13.5	12.8	12.1
152.5°	5.4	6.1	7.4	8.7	9.8	10.1	10.4	10.4	10.1	10.1	9.4
155°	3.7	4.4	5.4	6.4	7.4	7.7	8.1	8.1	7.7	7.7	7.4
157.5°	2.4	3.0	3.7	4.4	5.4	5.7	6.1	6.1	6.1	5.7	5.4
160°	1.3	1.7	2.0	2.7	3.4	3.7	4.0	4.0	4.0	4.0	3.7
162.5°	1.0	1.0	1.0	1.3	1.7	2.0	2.4	2.4	2.4	2.4	2.0
165°	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.3	1.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	317.1	317.1	317.4	316.8	314.8	315.1	315.1	316.4	317.1	317.4	319.1
5°	316.4	316.4	317.1	316.1	314.4	314.4	314.4	315.8	316.1	316.8	318.1
7.5°	315.4	315.4	315.8	314.8	312.7	312.7	312.4	313.7	314.4	314.8	316.1
10°	313.7	313.7	314.1	313.1	310.7	310.7	310.4	311.4	311.7	312.4	313.4
12.5°	311.4	311.4	311.4	310.4	308.0	307.7	307.4	308.4	308.4	308.7	309.7
15°	309.4	308.7	308.7	307.7	305.3	304.7	304.0	304.3	305.0	304.7	305.3
17.5°	307.0	306.3	305.7	304.7	301.6	300.6	300.0	300.3	300.0	299.6	300.3
20°	304.3	303.3	303.0	301.3	298.3	296.6	295.2	294.6	294.9	293.9	294.2
22.5°	301.3	300.0	299.3	297.3	294.2	292.2	290.5	289.2	288.9	287.5	287.8
25°	297.6	295.9	294.9	293.2	289.9	287.5	285.5	283.5	282.5	280.8	280.5
27.5°	293.2	291.5	290.2	288.5	285.2	282.1	279.8	277.1	275.7	273.7	272.7
30°	288.9	286.8	284.8	283.5	279.8	276.4	272.7	270.4	268.3	266.0	264.3
32.5°	283.5	281.5	279.4	277.4	274.1	270.0	267.0	263.3	260.9	258.3	256.2
35°	278.1	275.4	273.4	270.7	267.7	263.0	259.3	255.6	252.5	249.5	247.2
37.5°	272.0	270.0	267.0	264.6	260.9	256.2	252.2	247.5	244.8	240.8	237.7
40°	266.3	264.0	260.9	257.9	254.2	248.8	244.5	239.1	236.1	231.4	228.3
42.5°	260.6	257.2	254.2	250.9	246.8	241.8	236.4	231.0	227.0	222.6	218.2
45°	254.2	250.5	246.8	243.1	239.1	234.0	228.3	222.6	217.6	213.5	208.2
47.5°	247.5	243.8	239.4	235.4	231.0	226.0	219.9	213.9	208.5	203.8	198.1
50°	240.8	237.1	232.4	228.0	222.9	217.9	211.5	204.5	198.7	192.7	187.6
52.5°	233.7	230.0	225.6	219.9	214.5	209.5	202.8	195.4	189.0	183.9	177.6
55°	226.6	222.9	217.9	212.2	206.8	200.4	194.0	186.6	179.6	173.5	167.1
57.5°	219.2	215.9	210.2	205.5	198.7	192.0	185.3	178.2	170.5	163.4	156.0
60°	211.9	208.2	202.8	197.1	190.3	183.6	176.5	168.8	160.7	153.0	146.3
62.5°	205.1	200.4	195.4	189.3	182.3	175.9	167.8	159.4	151.3	143.3	135.2
65°	197.4	192.3	187.6	181.6	174.2	166.8	158.7	150.3	141.6	132.8	124.8
67.5°	189.7	184.6	179.6	173.5	165.8	158.0	149.6	141.2	131.5	123.1	113.7
70°	181.9	177.9	171.5	165.1	158.0	149.6	141.2	132.2	122.1	113.0	103.2
72.5°	174.2	170.2	163.8	157.0	150.3	141.6	132.5	123.4	114.0	103.6	93.1
75°	166.8	161.7	156.0	149.6	142.6	133.5	124.4	115.0	103.9	94.2	83.4
77.5°	159.7	155.0	149.3	142.2	134.5	125.8	116.4	106.6	95.5	85.1	73.3
80°	152.0	147.3	141.6	134.5	126.8	118.4	108.3	98.2	87.4	76.0	63.9
82.5°	144.6	140.2	133.8	127.4	119.0	110.6	100.5	90.5	79.0	67.9	56.2
85°	136.9	132.5	126.4	119.7	111.6	102.6	93.1	83.1	71.6	60.2	48.4
87.5°	130.1	125.1	119.0	112.3	104.2	95.5	86.4	75.7	64.6	53.5	41.4
90°	123.1	118.4	112.3	105.6	97.5	88.8	79.4	69.3	58.5	47.1	35.6
92.5°	117.0	112.0	106.3	99.5	91.5	83.1	73.6	63.6	53.1	42.0	30.9
95°	111.0	105.9	100.5	93.8	85.7	77.3	67.9	58.2	48.1	37.3	26.9
97.5°	104.2	99.9	94.5	88.1	80.0	72.0	62.9	53.5	43.7	33.3	23.5
100°	98.9	93.8	88.8	82.1	74.7	66.9	57.8	48.8	39.3	29.6	20.5
102.5°	92.8	88.1	83.1	76.7	69.3	61.5	53.1	44.4	35.6	26.6	17.8
105°	87.1	82.7	77.3	71.3	64.2	56.8	48.8	40.7	32.3	23.5	15.8
107.5°	81.4	77.0	72.0	66.2	59.5	52.1	44.7	36.7	28.9	21.2	14.1
110°	75.7	71.6	66.9	61.2	54.8	48.1	41.0	33.6	25.9	18.8	12.4

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	70.6	66.6	61.9	56.5	50.4	44.1	37.3	30.3	23.2	16.8	10.8
115°	65.6	61.9	57.2	52.5	46.4	40.4	34.0	27.2	20.8	15.1	9.4
117.5°	60.5	56.8	52.5	47.8	42.4	36.7	30.6	24.2	18.8	13.5	8.4
120°	55.5	52.1	48.1	43.7	39.0	33.3	27.2	21.9	16.8	11.8	7.4
122.5°	50.8	47.8	44.1	40.0	35.0	29.6	24.5	19.8	15.1	10.4	6.1
125°	46.4	43.4	40.0	36.0	31.3	26.6	22.2	17.8	13.1	9.1	5.0
127.5°	42.0	39.0	35.6	31.9	28.2	23.9	19.8	15.8	11.8	8.1	4.4
130°	37.7	35.0	31.9	28.9	25.2	21.2	17.8	13.8	10.1	6.4	3.7
132.5°	33.3	31.3	28.6	25.6	22.2	19.2	15.5	12.1	8.7	5.7	3.4
135°	29.6	27.6	25.2	22.5	19.8	16.8	13.5	10.4	7.4	4.7	2.7
137.5°	26.2	24.5	22.2	19.8	17.5	14.5	11.8	8.7	6.1	4.0	2.0
140°	23.2	21.5	19.5	17.1	15.1	12.4	9.8	7.1	5.4	3.4	1.7
142.5°	20.2	18.5	16.8	14.8	12.8	10.4	8.1	6.1	4.4	2.7	1.7
145°	17.1	15.8	14.1	12.4	10.4	8.4	6.7	5.0	3.4	2.0	1.3
147.5°	14.1	13.1	11.4	10.1	8.4	6.7	5.4	4.0	2.7	1.7	1.0
150°	11.4	10.4	9.1	7.7	6.7	5.4	4.4	3.0	2.0	1.7	1.0
152.5°	8.7	8.1	7.1	6.4	5.4	4.0	3.0	2.4	1.7	1.3	0.7
155°	7.1	6.4	5.7	4.7	4.0	3.0	2.4	1.7	1.3	1.0	0.7
157.5°	5.0	4.7	4.0	3.4	2.7	2.0	1.7	1.7	1.0	0.7	0.3
160°	3.4	3.0	2.7	2.0	1.7	1.7	1.3	1.0	0.7	0.7	0.3
162.5°	2.0	1.7	1.7	1.7	1.3	1.3	1.0	0.7	0.7	0.3	0.3
165°	1.3	1.3	1.3	1.0	1.0	1.0	0.7	0.3	0.3	0.3	0.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	319.1	318.1	319.5	321.8	322.1	321.8	321.1	322.1	323.5	323.2	320.8
5°	318.5	317.1	318.5	320.8	320.8	320.5	320.1	321.1	322.5	322.1	320.1
7.5°	316.4	315.1	316.4	318.5	318.8	318.1	318.1	319.1	320.5	320.1	318.5
10°	313.7	312.4	313.1	315.4	316.1	315.4	315.4	316.4	318.1	317.8	315.8
12.5°	309.7	308.7	309.4	311.4	312.1	311.7	311.4	312.7	314.4	314.4	312.4
15°	305.3	304.0	304.7	307.0	307.4	306.7	307.0	308.0	310.0	310.0	308.4
17.5°	300.3	298.6	299.6	301.3	301.6	301.6	301.6	303.0	305.3	305.0	303.7
20°	294.6	292.2	292.9	294.6	295.2	295.2	295.2	297.6	299.3	299.3	297.9
22.5°	287.8	286.2	286.2	287.8	288.9	288.5	288.5	290.5	292.9	292.6	292.6
25°	280.1	278.8	278.1	280.1	280.5	280.8	281.5	283.5	286.2	286.2	286.5
27.5°	272.0	270.7	270.4	272.0	272.4	272.7	273.4	275.7	278.4	278.8	279.4
30°	264.3	262.3	261.6	263.0	263.6	264.0	264.0	267.7	270.0	271.0	272.4
32.5°	255.2	253.2	251.5	253.9	254.2	254.9	255.2	258.9	261.6	263.3	265.3
35°	246.2	242.8	242.1	243.8	244.5	244.8	245.5	249.5	253.2	254.6	257.2
37.5°	236.1	233.7	231.7	233.4	234.0	234.4	236.4	240.1	243.8	245.8	248.5
40°	226.6	223.6	221.9	222.9	223.6	224.0	226.3	230.3	234.7	237.1	240.4
42.5°	216.2	212.2	210.8	211.9	212.2	213.2	215.2	220.6	225.0	228.3	231.0
45°	205.8	202.8	199.7	200.8	201.1	201.8	204.8	210.5	215.2	219.2	222.3
47.5°	195.0	191.3	188.3	189.0	190.3	190.7	194.0	200.8	205.1	209.5	213.5
50°	184.3	179.2	176.9	176.9	177.6	179.2	183.6	190.3	195.0	200.1	204.5
52.5°	173.2	168.5	165.8	166.1	166.8	168.8	172.8	179.6	184.9	190.3	195.7
55°	162.1	157.0	154.3	153.7	154.3	157.0	161.7	168.8	174.2	180.6	186.3
57.5°	151.0	144.9	142.6	141.6	142.2	145.6	150.3	157.7	164.4	170.5	177.2
60°	138.9	134.2	130.1	127.8	129.5	133.8	138.9	146.6	153.7	160.4	167.8
62.5°	128.5	122.4	118.0	115.7	117.4	121.1	128.1	135.5	143.3	151.0	158.4
65°	116.7	110.6	105.6	103.2	104.9	109.3	116.4	124.4	132.8	140.6	149.3
67.5°	105.3	98.9	92.8	90.5	92.5	97.2	104.9	114.0	123.1	131.1	140.6
70°	94.2	87.1	80.7	79.0	80.4	86.8	94.2	103.2	112.7	122.1	131.8
72.5°	84.1	75.3	68.6	66.6	68.3	75.3	83.7	93.1	103.2	113.3	123.7
75°	72.3	64.2	56.8	54.5	56.5	62.9	73.3	83.4	94.2	104.9	114.7
77.5°	62.9	53.5	45.7	42.0	45.4	53.5	63.6	74.3	85.4	96.5	107.6
80°	53.1	43.4	35.0	30.9	34.6	43.4	53.5	65.2	77.7	88.8	98.9
82.5°	44.4	34.0	25.2	20.8	24.9	34.6	45.7	57.5	69.6	80.7	92.5
85°	36.3	25.6	16.5	11.8	17.5	26.2	38.0	50.1	62.5	74.0	85.4
87.5°	29.6	19.2	10.1	5.0	10.8	20.5	31.6	43.7	56.2	67.6	78.4
90°	24.2	13.8	5.4	0.7	6.4	15.5	26.2	38.0	49.8	61.5	72.3
92.5°	19.8	10.4	3.0	0.3	4.0	12.4	22.5	33.6	45.1	56.5	66.9
95°	16.5	8.1	2.0	0.3	3.0	9.8	19.2	29.9	40.7	51.8	62.2
97.5°	14.1	6.7	1.7	0.3	2.4	8.4	16.5	26.6	37.0	47.4	57.5
100°	12.1	5.4	1.3	0.3	2.0	7.1	14.5	23.5	33.3	43.4	53.1
102.5°	10.4	4.4	1.0	0.3	1.7	6.1	12.8	21.2	29.9	39.7	49.1
105°	9.1	3.7	1.0	0.3	1.3	5.4	11.4	18.8	27.6	36.3	45.4
107.5°	7.7	3.0	0.7	0.3	1.0	4.4	10.1	17.1	24.9	33.3	41.7
110°	6.7	2.7	0.7	0.3	1.0	4.0	8.7	15.5	22.5	30.3	38.3

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.7	2.0	0.7	0.3	0.7	3.4	7.7	13.8	20.5	27.6	35.3
115°	5.0	1.7	0.3	0.3	0.7	3.0	7.1	12.4	18.5	25.2	32.3
117.5°	4.0	1.3	0.3	0.3	0.3	2.4	6.1	11.1	16.8	23.2	29.6
120°	3.4	1.3	0.3	0.3	0.3	2.0	5.4	9.8	15.1	20.8	26.9
122.5°	3.0	1.0	0.3	0.3	0.3	1.7	4.7	8.7	13.5	18.8	24.5
125°	2.7	1.0	0.3	0.3	0.3	1.3	4.0	7.7	12.1	16.8	22.2
127.5°	2.0	1.0	0.3	0.3	0.3	1.0	3.7	6.7	10.8	15.1	19.8
130°	1.7	0.7	0.3	0.3	0.3	1.0	3.0	6.1	9.4	13.5	17.8
132.5°	1.3	0.7	0.3	0.3	0.3	0.7	2.4	4.7	8.1	11.8	15.8
135°	1.3	0.7	0.3	0.3	0.3	0.7	1.7	4.0	6.7	10.1	13.5
137.5°	1.3	0.3	0.3	0.3	0.3	0.7	1.3	3.0	5.4	8.1	11.1
140°	1.0	0.3	0.3	0.3	0.3	0.3	1.0	2.4	4.4	6.7	9.4
142.5°	1.0	0.3	0.3	0.3	0.3	0.3	1.0	1.7	3.4	5.4	7.4
145°	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.3	2.7	4.0	6.1
147.5°	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.0	2.0	3.4	4.7
150°	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.3	2.4	3.7
152.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.7	2.4
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.3	1.7
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
165°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	319.8	317.4	318.1	317.8	318.5	319.5	319.5	319.1	319.1	318.5	317.8
5°	319.1	316.8	317.8	317.4	318.1	319.1	319.1	318.8	318.8	317.8	317.4
7.5°	317.1	315.4	316.1	316.1	316.8	317.8	317.8	317.4	317.4	316.4	316.1
10°	315.1	313.1	314.1	314.1	314.8	316.1	316.1	315.8	315.8	314.8	314.4
12.5°	311.7	309.7	311.4	311.7	312.4	313.7	313.4	313.4	313.4	312.4	312.1
15°	307.7	306.3	308.0	308.4	309.4	311.1	311.1	311.1	311.1	310.0	309.7
17.5°	303.3	302.3	304.0	304.7	306.0	307.7	307.7	308.0	308.4	307.7	307.4
20°	298.3	297.6	299.3	300.6	302.6	304.3	305.0	305.3	306.0	305.3	305.0
22.5°	292.6	292.6	294.9	296.3	298.6	300.3	301.3	302.3	303.0	302.3	302.0
25°	286.2	287.2	289.5	291.9	294.6	296.3	297.3	298.6	299.3	298.9	298.6
27.5°	280.1	281.5	284.5	286.8	289.2	291.9	292.9	294.6	295.2	295.2	294.9
30°	273.1	275.1	278.4	281.1	284.2	286.8	288.2	289.9	290.9	290.2	290.5
32.5°	266.3	269.7	272.4	275.4	278.8	281.5	283.1	285.2	286.2	285.8	286.2
35°	258.9	262.3	266.0	269.0	273.1	275.7	278.1	279.8	281.1	280.8	280.8
37.5°	250.9	255.2	258.9	263.0	266.7	269.7	272.0	274.1	275.4	275.4	275.4
40°	243.1	247.8	251.5	256.2	260.9	263.6	266.3	268.3	269.7	270.0	270.4
42.5°	234.7	239.8	244.1	249.2	253.9	257.2	260.3	262.6	264.0	264.6	264.3
45°	227.0	231.7	236.7	242.5	246.8	250.2	253.9	256.6	257.9	258.3	258.6
47.5°	218.2	223.6	229.3	235.1	239.4	243.8	247.2	249.9	251.2	252.2	252.2
50°	209.8	215.6	221.9	228.0	232.7	237.1	240.4	243.5	245.1	245.8	246.2
52.5°	202.1	207.5	214.2	220.3	225.0	229.3	233.7	237.1	238.8	239.4	239.4
55°	192.7	199.4	206.8	212.5	217.6	222.6	227.0	230.3	232.0	233.0	233.7
57.5°	183.9	191.0	198.7	204.8	210.8	215.6	219.6	224.0	225.3	226.6	227.0
60°	175.5	182.6	190.0	196.7	202.8	207.8	212.5	216.2	218.6	219.2	219.9
62.5°	166.8	174.2	181.9	188.6	195.0	201.1	205.5	208.8	211.5	212.5	213.2
65°	158.4	166.1	173.9	180.9	187.6	193.7	198.1	201.4	204.1	205.8	206.1
67.5°	149.3	157.7	165.8	173.2	179.9	186.3	190.7	194.0	196.7	198.7	199.1
70°	140.9	149.6	157.7	165.8	172.5	178.9	183.6	187.0	190.0	191.3	192.0
72.5°	132.8	141.9	150.3	158.4	165.1	171.5	176.5	179.9	182.9	184.6	184.9
75°	125.1	134.2	143.3	151.0	158.0	164.4	169.5	173.2	175.9	177.6	178.2
77.5°	117.4	126.8	135.9	143.6	151.0	157.4	161.7	166.1	168.8	170.8	170.8
80°	109.6	119.4	128.8	136.5	143.9	149.6	154.7	159.1	161.7	163.8	163.8
82.5°	102.9	112.3	121.4	129.1	136.5	142.9	148.0	152.0	155.0	156.4	156.7
85°	95.2	105.6	114.0	122.4	129.5	135.5	140.6	144.9	147.6	149.0	149.6
87.5°	88.8	98.9	107.9	115.3	122.4	128.5	134.2	137.9	140.6	142.2	142.9
90°	82.7	92.5	101.6	109.0	116.4	122.1	127.4	131.1	134.2	135.5	136.2
92.5°	77.3	87.1	95.8	103.2	110.3	116.7	121.7	125.4	128.1	129.5	130.5
95°	72.3	81.7	90.1	98.2	104.9	110.6	116.0	119.7	122.7	123.7	124.8
97.5°	67.3	76.3	84.7	92.5	99.5	104.9	110.0	113.7	116.0	117.7	118.7
100°	62.9	71.6	79.7	87.1	93.8	98.9	104.2	107.6	110.0	111.3	112.7
102.5°	58.2	66.9	74.7	81.7	88.8	93.5	98.5	101.9	103.9	106.3	106.3
105°	54.1	62.2	69.9	76.7	82.7	88.4	92.8	96.2	98.5	100.2	100.2
107.5°	49.8	57.8	65.2	72.3	78.0	83.4	87.4	90.5	93.1	94.2	95.2
110°	46.4	53.5	60.9	67.6	73.0	78.0	82.1	85.4	87.8	88.8	89.4



TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	42.4	49.8	56.5	62.9	68.3	73.0	77.0	79.7	82.1	83.4	83.7
115°	39.0	46.1	52.1	58.2	63.9	67.9	71.6	74.3	76.7	77.7	78.4
117.5°	36.0	42.4	48.4	53.5	58.8	63.2	66.9	69.3	71.3	72.6	73.3
120°	33.0	39.0	44.4	49.4	54.5	58.5	61.9	64.2	66.6	67.6	67.6
122.5°	29.9	35.6	40.7	45.4	50.1	53.8	57.5	59.5	61.5	62.5	62.5
125°	27.2	32.6	37.3	41.7	46.1	49.4	52.5	54.8	56.8	57.5	57.5
127.5°	24.5	29.6	34.0	38.0	41.7	45.1	48.1	50.4	52.1	52.8	52.8
130°	22.2	26.6	30.6	34.6	38.3	41.0	44.1	46.1	47.1	48.1	48.4
132.5°	19.8	23.9	27.6	30.9	34.6	37.3	39.7	41.7	42.7	43.7	44.1
135°	17.5	21.2	24.5	27.9	30.9	33.6	35.6	37.3	38.7	39.3	39.7
137.5°	14.8	18.8	21.9	24.5	27.9	29.9	32.3	33.3	34.6	35.3	35.3
140°	12.4	15.5	18.8	21.5	24.2	26.2	28.2	29.9	30.9	31.3	31.3
142.5°	10.1	12.8	15.5	18.8	21.2	22.9	24.9	26.2	26.9	27.2	27.6
145°	8.1	10.1	12.4	15.5	18.2	20.2	21.2	22.5	23.2	23.5	23.9
147.5°	6.1	8.1	10.1	12.1	14.8	16.8	17.8	19.2	19.8	20.2	20.2
150°	4.7	6.1	7.4	9.4	11.4	13.8	15.1	16.1	16.5	16.8	16.8
152.5°	3.4	4.7	5.7	7.1	8.4	10.4	12.4	13.1	13.5	13.8	13.8
155°	2.4	3.4	4.0	5.0	6.1	7.7	9.4	10.4	10.8	11.1	11.1
157.5°	1.7	2.4	2.7	3.7	4.4	5.0	6.4	8.1	8.4	8.4	8.4
160°	1.0	1.3	1.7	2.4	2.7	3.4	4.0	5.0	6.1	6.1	6.1
162.5°	0.7	1.0	1.0	1.3	1.3	2.0	2.4	2.7	3.7	4.0	4.0
165°	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.7	2.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	318.1	318.8	318.5	318.5	318.5	319.1	318.5	315.4	316.1	316.8	317.4
5°	317.8	318.1	318.1	317.8	317.8	318.5	317.8	314.8	315.4	316.1	316.4
7.5°	316.4	316.8	316.8	316.8	316.4	317.1	316.1	313.4	313.4	314.1	314.4
10°	314.8	315.4	315.1	314.8	314.8	314.8	314.1	311.1	311.1	311.4	311.7
12.5°	312.7	312.7	312.7	312.4	312.1	312.1	311.4	308.4	308.0	308.7	308.4
15°	310.0	310.7	310.0	309.7	309.0	309.0	308.0	305.0	304.3	304.7	304.3
17.5°	307.7	308.0	307.4	306.7	306.0	305.7	304.7	301.3	300.3	300.6	300.0
20°	305.3	305.3	304.7	304.0	303.0	302.0	300.6	297.3	295.6	295.6	294.2
22.5°	302.3	302.3	301.6	300.6	299.6	298.3	296.9	293.6	290.9	290.2	289.2
25°	298.9	298.6	298.3	297.3	295.2	293.9	292.6	288.9	285.8	284.5	282.8
27.5°	294.9	294.9	293.9	292.9	290.9	289.2	287.5	284.2	280.1	278.4	276.1
30°	290.5	290.5	289.5	288.2	286.2	284.2	282.1	278.1	274.1	271.7	269.0
32.5°	286.2	285.8	284.8	283.5	281.5	278.4	276.8	272.7	268.0	265.3	261.6
35°	280.8	280.5	279.4	277.8	275.1	272.7	270.0	266.3	260.9	257.6	253.5
37.5°	275.4	275.1	274.4	272.0	269.4	266.7	263.3	259.6	254.6	250.2	246.2
40°	270.0	269.7	268.3	266.7	263.3	259.9	256.6	252.9	247.5	242.5	238.1
42.5°	264.3	264.0	262.3	260.3	256.6	253.2	249.2	245.1	239.8	233.7	229.3
45°	258.6	257.9	256.2	253.9	249.9	246.2	242.1	237.4	232.0	226.3	220.6
47.5°	252.5	251.5	249.9	246.5	243.1	239.1	234.4	229.3	224.0	217.6	211.5
50°	245.8	245.1	243.1	240.1	236.1	232.0	226.6	221.6	215.2	209.2	201.8
52.5°	239.4	238.1	236.4	233.0	229.0	224.6	218.9	212.9	206.5	200.8	193.0
55°	232.7	232.0	229.7	227.0	221.9	216.9	211.5	205.1	198.1	191.3	183.9
57.5°	226.3	225.0	222.9	219.2	214.9	209.8	204.1	197.4	189.7	182.6	174.5
60°	219.9	217.9	215.6	212.2	207.5	202.1	196.0	189.0	181.3	173.5	165.1
62.5°	212.9	211.2	208.5	205.1	200.4	194.7	188.3	180.9	173.5	165.4	156.4
65°	205.8	204.1	201.4	198.1	193.4	187.0	180.2	172.8	164.4	156.7	147.0
67.5°	198.7	197.1	194.0	190.3	185.6	179.6	172.5	164.8	156.4	148.0	137.9
70°	191.7	189.7	187.0	182.9	178.2	171.8	164.8	156.7	148.3	139.2	129.1
72.5°	184.6	182.9	179.6	175.9	170.8	164.4	157.4	149.3	140.6	131.1	121.1
75°	177.6	175.5	173.2	168.8	163.4	157.4	150.0	141.9	132.5	123.4	113.0
77.5°	170.5	168.8	165.8	161.4	156.4	150.0	142.6	134.5	125.1	115.7	104.6
80°	163.4	161.4	159.1	155.0	149.3	142.9	135.2	127.1	117.7	107.9	96.8
82.5°	156.4	154.3	151.7	147.6	142.2	135.9	128.5	119.7	110.3	100.2	89.8
85°	149.3	147.6	144.6	140.6	134.8	128.5	121.1	113.3	103.2	93.1	82.7
87.5°	142.2	140.6	137.5	133.5	128.1	121.7	114.3	106.3	96.5	87.1	75.7
90°	135.5	134.2	131.1	127.1	121.7	115.3	108.6	99.9	90.5	81.0	70.3
92.5°	129.5	128.1	125.4	121.4	116.7	109.6	102.9	94.5	85.1	75.3	64.9
95°	124.1	122.4	119.7	116.0	110.3	104.2	97.5	89.1	80.0	70.3	60.2
97.5°	118.0	116.4	113.7	109.6	104.9	98.5	91.8	83.7	74.7	65.6	55.5
100°	112.0	110.3	107.3	103.9	99.2	92.8	86.4	78.4	69.9	61.2	51.4
102.5°	105.9	104.2	101.6	98.2	93.5	87.8	81.4	73.6	65.2	56.5	47.4
105°	100.2	98.5	95.8	92.5	88.1	82.4	75.7	68.9	60.9	52.5	43.7
107.5°	94.5	92.8	90.5	87.1	82.7	77.3	71.0	63.9	56.5	48.4	40.0
110°	88.8	87.4	84.7	81.7	77.3	72.0	66.2	59.5	52.1	44.7	36.7

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	83.4	82.1	79.4	76.0	72.3	67.3	61.5	55.1	48.1	41.0	33.3
115°	78.0	76.3	74.0	71.0	67.3	62.5	57.2	51.4	44.4	37.7	30.6
117.5°	72.6	71.3	68.9	65.9	62.5	57.8	52.8	47.4	40.7	34.3	27.9
120°	67.3	66.2	63.9	61.2	57.8	53.5	48.8	43.4	37.3	31.3	25.2
122.5°	62.2	61.2	58.8	56.5	53.1	49.1	44.7	39.7	34.3	28.6	23.2
125°	57.5	56.2	54.1	51.8	48.8	45.1	40.7	36.0	30.9	25.9	20.8
127.5°	52.5	51.4	50.1	47.4	44.4	41.0	37.0	33.0	28.2	23.5	18.8
130°	48.4	47.1	45.4	43.4	40.7	37.3	33.6	29.6	25.6	21.2	16.5
132.5°	43.7	42.4	41.0	39.0	36.7	33.6	30.3	26.6	22.9	18.8	14.8
135°	39.3	38.3	37.0	35.0	32.6	30.3	26.9	23.5	20.2	16.5	13.1
137.5°	35.3	34.3	33.0	31.6	29.3	26.9	23.9	20.8	17.8	14.5	11.4
140°	31.3	30.6	29.3	27.9	25.9	23.5	20.8	18.2	15.5	12.4	9.8
142.5°	27.2	26.6	25.6	24.2	22.5	20.5	18.2	15.8	13.1	10.8	8.4
145°	23.5	23.2	22.2	20.8	19.5	17.5	15.5	13.5	11.1	9.1	6.7
147.5°	19.8	19.5	18.8	17.8	16.5	14.8	13.1	11.1	9.4	7.4	5.4
150°	16.5	16.1	15.8	14.5	13.8	12.1	10.8	9.1	7.7	5.7	4.4
152.5°	13.5	13.5	12.8	11.8	11.1	9.8	8.7	7.4	6.1	4.7	3.4
155°	10.8	10.4	10.1	9.4	8.7	7.7	6.7	5.7	4.7	3.4	2.4
157.5°	8.4	8.1	7.7	7.1	6.4	6.1	5.0	4.0	3.0	2.4	1.7
160°	6.1	5.7	5.4	5.0	4.7	4.0	3.4	2.7	2.0	1.3	1.0
162.5°	4.0	3.7	3.7	3.4	3.0	2.4	2.0	1.7	1.3	1.0	0.7
165°	2.0	2.0	1.7	1.7	1.3	1.0	1.0	1.0	0.7	0.7	0.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	318.8	318.8	318.8	318.8	318.8	318.8	318.8
2.5°	317.1	317.1	318.5	318.1	317.1	319.1	321.5
5°	316.1	316.1	317.1	317.1	316.1	318.1	320.1
7.5°	314.4	314.1	315.1	315.1	313.7	315.4	317.8
10°	311.4	311.1	312.1	312.1	310.7	312.4	314.4
12.5°	308.0	307.4	308.4	308.0	306.7	308.4	310.4
15°	303.7	303.3	304.0	303.3	302.0	303.7	305.7
17.5°	299.3	298.3	298.6	298.6	296.3	297.9	299.6
20°	293.6	292.2	292.6	292.2	290.5	291.5	293.6
22.5°	287.8	285.8	285.8	285.5	283.5	284.8	286.5
25°	280.8	278.4	278.4	278.1	275.7	276.8	278.4
27.5°	273.7	271.4	270.4	270.0	267.7	267.7	270.0
30°	266.3	263.0	262.3	261.3	258.9	258.9	260.9
32.5°	259.3	254.6	253.2	251.9	249.5	249.2	251.5
35°	249.9	246.2	243.8	242.5	239.8	239.1	241.1
37.5°	242.1	237.4	234.0	232.4	229.7	228.7	231.4
40°	233.7	228.7	224.3	223.3	219.2	217.9	220.3
42.5°	224.3	218.9	214.5	212.5	209.5	208.2	208.5
45°	214.9	209.2	204.5	201.8	198.7	196.4	197.7
47.5°	205.1	200.1	194.4	190.3	186.6	184.9	185.6
50°	195.4	189.3	183.9	179.6	175.2	173.2	174.5
52.5°	185.6	179.2	173.2	168.5	163.4	161.4	161.7
55°	176.2	169.5	162.4	157.4	152.7	149.6	149.0
57.5°	166.8	159.4	152.0	146.3	140.2	137.5	136.5
60°	156.7	149.0	141.2	134.5	128.1	125.1	123.7
62.5°	147.3	138.9	130.1	123.1	116.7	112.7	111.6
65°	138.2	128.5	119.7	111.6	104.6	100.2	98.9
67.5°	128.5	118.4	109.0	100.2	93.5	87.8	87.1
70°	119.4	108.6	98.2	89.1	81.7	76.0	73.3
72.5°	110.3	99.2	88.4	78.7	69.3	63.9	61.9
75°	101.6	90.1	78.7	68.6	58.2	51.8	49.8
77.5°	93.5	81.7	69.6	58.5	48.8	40.7	38.0
80°	85.7	73.6	60.9	49.4	39.0	30.3	27.2
82.5°	77.7	66.2	53.1	41.0	30.3	21.2	17.5
85°	70.6	59.2	46.1	34.0	23.2	13.5	9.4
87.5°	64.9	52.5	40.7	28.6	17.5	7.7	2.7
90°	59.2	47.1	35.3	23.5	13.1	4.4	0.3
92.5°	54.1	42.7	30.9	20.2	10.1	3.0	0.3
95°	49.4	38.3	27.2	16.8	8.1	2.0	0.3
97.5°	45.1	34.6	24.2	14.5	6.7	1.7	0.3
100°	41.4	31.3	21.5	12.8	5.7	1.3	0.3
102.5°	37.7	28.2	19.2	11.1	5.0	1.0	0.3
105°	34.6	25.6	17.1	10.1	4.4	1.0	0.3
107.5°	31.6	23.2	15.5	8.7	3.7	0.7	0.3
110°	28.6	21.2	13.8	7.7	3.4	0.7	0.3

TEST NUMBER: P1212963

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	26.2	19.2	12.4	7.1	2.7	0.7	0.3
115°	23.9	17.1	11.1	6.1	2.4	0.3	0.3
117.5°	21.5	15.5	9.8	5.4	2.0	0.3	0.3
120°	19.5	13.8	8.7	4.7	1.7	0.3	0.3
122.5°	17.5	12.4	7.7	4.0	1.3	0.3	0.3
125°	15.8	11.1	6.7	3.4	1.0	0.3	0.3
127.5°	14.1	9.8	6.1	3.0	1.0	0.3	0.3
130°	12.4	8.7	5.0	2.4	0.7	0.3	0.3
132.5°	11.1	7.4	4.4	2.0	0.7	0.3	0.3
135°	9.8	6.4	3.7	1.3	0.7	0.3	0.3
137.5°	8.4	5.4	3.0	1.0	0.3	0.3	0.3
140°	7.1	4.7	2.4	1.0	0.3	0.3	0.3
142.5°	6.1	3.7	1.7	0.7	0.3	0.3	0.3
145°	4.7	3.0	1.3	0.7	0.3	0.3	0.3
147.5°	3.7	2.4	1.0	0.7	0.3	0.3	0.3
150°	2.7	1.7	1.0	0.3	0.3	0.3	0.3
152.5°	2.0	1.3	0.7	0.3	0.3	0.3	0.3
155°	1.3	1.0	0.7	0.3	0.3	0.3	0.3
157.5°	1.0	0.7	0.3	0.3	0.3	0.3	0.3
160°	0.7	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)