

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: P1213667

Luminaire Tested: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

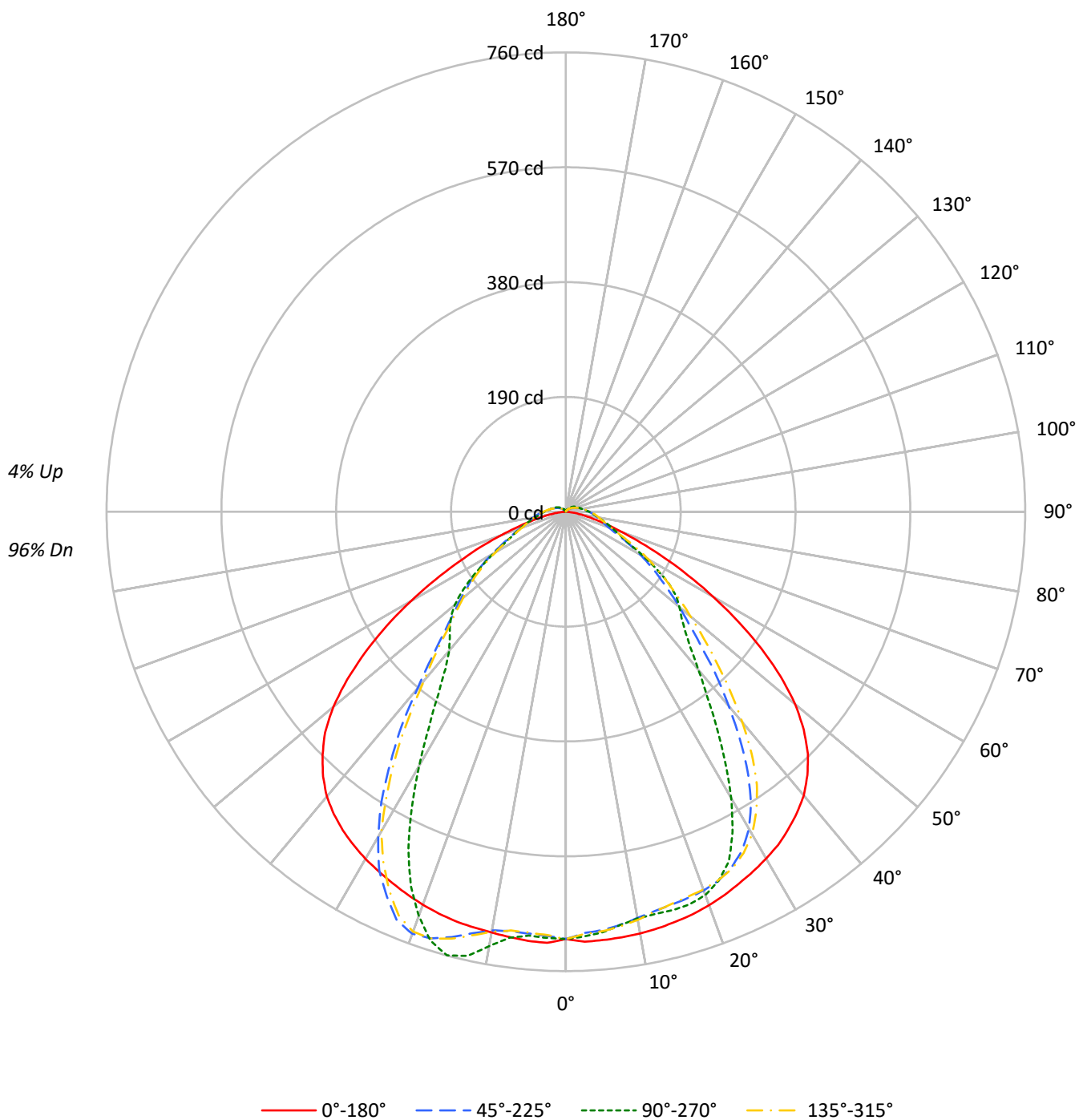
Lumens per Lamp: N/A
Luminaire Lumens: 1685.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11423	11423	11423	11423
5°	11476	10970	11500	11057
10°	11497	10515	11473	11229
15°	11554	10375	11548	11551
20°	11647	10209	11634	10762
25°	11753	9686	11748	9358
30°	11935	8395	11942	7436
35°	12126	6788	12160	5743
40°	12281	5465	12333	4815
45°	12182	4630	12245	4509
50°	11593	4261	11756	4168
55°	10218	3830	10474	3482
60°	8219	2932	8657	2689
65°	6046	2244	6512	2127
70°	4049	1935	4565	1852
75°	2587	1748	3013	1652
80°	1608	1630	1883	1499
85°	746	1626	984	1486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 12245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	4.0
10°-20°	199.8	11.9
20°-30°	303.7	18.0
30°-40°	325.8	19.3
40°-50°	282.8	16.8
50°-60°	209.5	12.4
60°-70°	120.1	7.1
70°-80°	66.5	3.9
80°-90°	40.5	2.4
90°-100°	26.3	1.6
100°-110°	17.6	1.0
110°-120°	11.9	0.7
120°-130°	7.3	0.4
130°-140°	3.8	0.2
140°-150°	1.8	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	570.6	33.9
0°-40°	896.4	53.2
0°-60°	1388.7	82.4
0°-90°	1615.7	95.9
90°-120°	55.9	3.3
90°-150°	68.8	4.1
90°-180°	69.0	4.1
0°-180°	1685.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	707	707	707	707	707	
5°	711	698	713	704	711	68
15°	702	682	702	760	702	199
25°	678	638	678	617	678	314
35°	642	434	643	368	642	402
45°	566	279	569	271	566	434
55°	395	209	405	190	395	350
65°	179	106	193	100	179	181
75°	51	67	60	64	51	58
85°	7	46	9	42	7	9
90°	0	39	1	36	0	0
95°	0	32	0	30	0	0
105°	0	24	0	23	0	0
115°	0	19	0	18	0	0
125°	0	15	0	12	0	0
135°	0	9	0	8	0	0
145°	0	6	1	4	0	0
155°	1	3	1	2	1	0
165°	0	0	0	0	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°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	711.9	710.1	709.4	707.9	709.0	713.4	710.5	705.7	706.1	697.7	702.1
5°	711.2	709.0	707.9	706.4	707.2	711.2	708.3	703.5	703.2	694.8	698.8
7.5°	710.1	707.9	706.1	705.0	705.4	708.6	705.0	699.5	698.4	689.3	692.9
10°	708.3	706.8	704.3	702.4	702.1	705.7	699.9	694.4	691.8	682.4	686.0
12.5°	705.7	703.5	701.0	697.7	697.3	699.5	694.8	687.1	684.5	676.9	680.9
15°	702.1	699.5	696.6	692.9	691.1	692.6	686.7	679.8	679.4	672.9	678.3
17.5°	698.1	694.4	691.1	686.0	683.4	684.5	679.8	673.6	674.3	670.3	676.5
20°	692.6	688.6	683.4	678.3	674.7	676.5	673.2	668.5	669.6	666.7	672.1
22.5°	686.4	680.9	674.7	668.8	665.9	668.5	665.9	661.9	662.3	660.4	663.7
25°	678.3	672.1	664.8	657.5	656.1	657.9	656.4	653.1	651.7	648.8	650.2
27.5°	671.0	664.1	655.0	647.3	644.7	648.4	645.1	639.6	635.6	631.6	628.7
30°	662.6	654.2	644.0	635.3	633.1	634.5	629.8	621.4	610.8	605.7	597.7
32.5°	653.5	642.6	629.8	619.9	618.5	617.4	608.6	596.6	580.1	569.9	557.5
35°	641.5	629.4	614.1	602.0	599.8	593.6	579.4	563.3	542.2	524.6	503.5
37.5°	628.0	613.7	597.7	581.6	575.4	563.0	542.9	526.1	494.0	472.8	447.2
40°	612.6	595.5	575.7	556.4	546.2	526.1	503.1	478.3	447.2	418.8	397.2
42.5°	591.4	573.2	549.8	528.3	510.8	484.1	457.1	422.0	393.6	369.5	347.6
45°	566.3	544.3	517.3	491.4	469.1	437.4	405.6	370.6	346.8	318.7	303.8
47.5°	533.8	510.0	481.2	452.3	423.1	388.1	354.9	321.3	297.5	277.5	266.5
50°	495.4	473.5	441.8	407.4	375.3	338.8	305.6	280.4	257.4	245.0	236.6
52.5°	448.0	427.5	395.0	357.8	326.8	291.0	260.7	240.2	223.8	214.7	211.8
55°	395.0	377.1	345.0	310.3	278.6	245.7	222.7	204.8	194.2	188.8	189.1
57.5°	338.4	324.6	294.3	263.2	233.3	208.5	187.7	173.4	165.4	165.0	166.1
60°	281.8	271.6	245.3	218.7	192.4	172.3	157.0	147.1	142.0	142.4	142.0
62.5°	227.8	218.3	199.3	177.4	156.6	143.1	129.2	125.2	120.8	120.5	120.5
65°	179.3	172.0	156.6	140.9	125.2	116.5	109.5	104.8	101.5	100.8	101.1
67.5°	134.7	131.8	121.2	110.6	100.8	95.3	89.4	88.4	85.8	85.8	86.5
70°	100.4	98.2	92.4	86.2	82.1	78.5	75.6	75.6	75.2	74.8	76.7
72.5°	72.7	73.0	71.2	66.4	66.1	65.4	64.6	65.7	66.1	67.2	69.4
75°	51.1	52.2	52.2	51.5	52.9	54.8	55.9	57.7	59.9	61.3	63.9
77.5°	36.1	36.1	38.0	40.2	43.1	46.4	49.3	51.8	54.8	56.6	58.8
80°	23.4	24.5	27.4	31.4	35.4	39.8	43.8	47.1	50.0	52.9	54.4
82.5°	13.9	15.7	19.3	24.5	29.6	35.0	39.1	43.1	46.4	49.3	50.4
85°	6.9	9.5	13.9	19.3	24.8	30.7	35.8	39.4	43.1	45.6	47.1
87.5°	2.2	5.1	9.9	15.0	20.8	26.7	32.1	36.1	39.4	41.6	43.1
90°	0.0	2.6	6.9	12.4	17.9	23.7	28.8	33.2	36.5	38.3	39.4
92.5°	0.0	1.5	5.5	10.2	15.3	21.2	26.3	30.3	33.2	35.0	35.8
95°	0.4	1.1	4.0	8.4	13.5	19.0	23.7	27.4	30.3	32.1	32.5
97.5°	0.4	0.7	3.3	6.9	11.7	16.8	21.5	25.2	27.4	29.2	29.6
100°	0.4	0.7	2.6	6.2	10.2	15.0	19.3	22.6	25.2	26.7	27.0
102.5°	0.4	0.4	2.2	5.1	9.1	13.1	17.2	20.4	22.6	24.1	24.8
105°	0.4	0.4	1.8	4.4	8.0	11.7	15.3	18.6	20.4	21.9	22.6
107.5°	0.4	0.4	1.5	3.7	6.9	10.2	13.9	16.4	18.6	20.1	20.8
110°	0.4	0.4	1.1	3.3	5.8	9.1	12.0	14.6	16.8	18.3	19.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.4	1.1	2.9	5.1	8.0	10.6	13.1	15.0	16.4	17.5
115°	0.4	0.4	1.1	2.6	4.7	6.9	9.5	11.7	13.5	15.0	16.1
117.5°	0.4	0.4	1.1	2.2	4.0	6.2	8.4	10.6	12.0	13.5	14.6
120°	0.4	0.4	0.7	1.8	3.7	5.5	7.3	9.1	11.0	12.4	13.5
122.5°	0.4	0.4	0.7	1.8	2.9	4.7	6.6	8.0	9.9	11.0	12.0
125°	0.4	0.4	0.7	1.5	2.6	4.4	5.8	7.3	8.4	9.9	11.0
127.5°	0.4	0.4	0.7	1.5	2.2	3.7	5.1	6.6	7.7	8.8	9.5
130°	0.4	0.4	0.7	1.1	1.8	2.9	4.4	5.5	6.9	7.7	8.4
132.5°	0.4	0.4	0.4	1.1	1.5	2.2	3.3	4.7	5.8	6.9	7.3
135°	0.4	0.4	0.4	0.7	1.5	1.8	2.6	3.7	4.7	5.8	6.6
137.5°	0.4	0.4	0.4	0.7	1.1	1.8	2.2	2.9	4.0	4.7	5.8
140°	0.4	0.4	0.4	0.7	1.1	1.5	1.8	2.6	3.3	4.0	4.7
142.5°	0.4	0.4	0.4	0.7	0.7	1.1	1.5	2.2	2.6	3.3	4.0
145°	0.4	0.4	0.4	0.7	0.7	1.1	1.5	1.8	2.2	2.6	3.3
147.5°	0.4	0.4	0.4	0.7	0.7	0.7	1.1	1.5	1.8	2.2	2.6
150°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	1.8	2.2
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.5	1.8
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	1.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	700.6	701.3	705.7	705.4	704.6	703.9	703.9	703.2	703.9	705.7	705.0
5°	697.0	698.1	701.3	701.0	700.2	699.9	699.5	698.4	699.1	701.7	701.0
7.5°	690.4	691.5	694.4	692.9	691.8	692.6	690.8	689.7	691.1	693.7	693.3
10°	683.4	684.2	687.8	687.1	685.3	685.6	683.8	683.1	684.9	686.4	686.7
12.5°	678.7	681.3	684.5	684.2	683.8	684.2	682.4	681.6	682.7	684.2	683.8
15°	677.6	680.9	684.5	684.5	684.9	685.3	683.4	682.4	683.4	684.5	684.2
17.5°	676.5	680.5	683.8	683.4	683.8	684.5	681.6	680.9	682.4	683.8	683.1
20°	672.9	676.5	678.7	678.0	678.0	678.3	674.7	674.7	676.9	678.0	678.3
22.5°	662.6	667.0	667.0	665.2	665.2	663.7	662.6	660.4	663.0	664.8	666.3
25°	647.3	649.1	646.9	642.9	640.7	638.9	633.8	638.2	638.2	643.7	645.5
27.5°	625.8	621.7	615.5	607.1	605.3	599.5	596.2	597.3	599.1	606.8	612.6
30°	590.4	578.3	567.7	564.1	556.0	550.2	544.3	547.3	550.6	554.9	567.0
32.5°	543.6	531.9	514.8	508.6	500.2	492.9	485.9	490.3	496.2	499.1	512.2
35°	490.0	476.1	460.4	449.8	441.0	437.0	428.3	434.5	440.7	442.9	454.2
37.5°	433.0	418.8	404.9	395.8	387.4	384.8	379.0	383.3	388.1	391.4	400.9
40°	379.0	365.8	355.2	349.0	343.2	341.0	338.8	340.6	344.3	346.8	354.1
42.5°	332.6	322.0	314.7	311.1	307.0	304.1	304.5	305.2	307.0	312.5	315.8
45°	292.1	285.9	281.1	280.4	277.8	277.5	277.1	278.6	279.7	282.9	285.5
47.5°	259.6	257.0	255.9	257.4	258.5	257.0	257.8	259.6	261.8	261.8	261.4
50°	234.0	234.8	236.2	239.5	241.7	242.4	243.2	245.3	245.7	246.4	245.3
52.5°	213.2	213.9	218.0	223.1	225.6	226.7	228.2	230.4	230.4	231.1	229.6
55°	192.0	193.1	197.1	202.3	204.5	205.9	207.4	208.8	209.9	211.4	210.3
57.5°	168.7	172.0	174.5	176.0	177.4	178.5	179.6	180.0	182.2	182.5	184.4
60°	143.8	144.6	147.1	146.8	145.7	148.6	147.1	149.7	152.2	155.5	155.9
62.5°	120.1	120.5	122.3	121.6	123.0	122.7	123.8	123.8	125.6	127.1	128.9
65°	101.5	101.9	103.3	103.3	103.0	104.1	105.1	105.9	105.9	107.0	108.4
67.5°	87.6	88.7	90.2	90.9	91.6	91.6	92.7	93.1	93.8	94.2	94.9
70°	78.1	79.6	81.1	81.8	82.1	82.9	83.2	83.2	84.0	84.3	85.1
72.5°	71.2	72.7	73.7	73.7	74.5	74.8	74.8	75.2	75.6	76.3	77.0
75°	65.4	66.4	67.2	66.8	66.8	66.8	67.2	67.2	67.9	68.6	69.4
77.5°	59.9	61.0	61.0	60.2	60.2	60.2	60.2	60.6	61.0	61.7	62.4
80°	55.9	55.9	55.5	55.5	54.8	54.4	54.4	54.8	54.8	55.5	56.6
82.5°	51.5	51.5	51.1	50.7	50.4	50.0	50.0	50.4	50.7	51.1	51.8
85°	47.5	47.5	46.7	46.7	46.4	46.4	46.4	46.4	46.7	47.1	47.8
87.5°	43.4	43.1	42.7	42.4	42.4	42.4	42.4	42.4	42.7	43.4	43.8
90°	39.4	39.1	38.7	38.7	38.3	38.3	38.7	38.7	39.1	39.4	39.8
92.5°	35.8	35.4	35.0	35.0	34.7	34.7	35.0	34.7	35.4	35.4	35.8
95°	32.5	32.1	31.8	31.8	31.8	31.8	31.8	31.8	32.1	32.1	32.5
97.5°	29.6	29.2	28.8	28.8	29.2	28.8	29.2	29.2	29.2	29.6	29.9
100°	27.0	26.7	26.7	27.0	26.7	26.7	27.0	27.0	27.0	27.0	27.4
102.5°	24.8	24.8	24.8	24.8	24.8	24.8	25.2	25.2	25.2	25.2	25.6
105°	22.6	23.0	23.0	23.0	23.4	23.4	23.4	23.7	23.7	23.7	23.7
107.5°	21.2	21.5	21.5	21.9	21.9	22.3	22.3	22.3	22.3	22.6	22.6
110°	19.7	20.1	20.4	20.8	20.8	21.2	21.2	21.2	21.2	21.2	21.2

TEST NUMBER: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	18.3	18.6	19.0	19.7	20.1	20.1	20.1	20.1	20.4	20.4	20.1
115°	16.8	17.5	17.9	18.6	19.0	19.0	19.3	19.3	19.3	19.3	19.0
117.5°	15.3	16.4	16.8	17.5	17.9	17.9	18.3	18.3	18.3	18.3	17.9
120°	14.2	15.0	15.7	16.1	16.4	16.8	16.8	17.2	17.2	17.2	16.8
122.5°	13.1	13.9	14.6	15.0	15.3	15.7	15.7	15.7	15.7	15.7	15.7
125°	11.7	12.4	13.1	13.5	13.9	14.2	14.2	14.6	14.6	14.6	14.2
127.5°	10.6	11.3	11.7	12.4	12.8	12.8	13.1	13.1	13.1	13.1	12.8
130°	9.1	9.9	10.6	11.0	11.3	11.3	11.7	11.7	11.7	11.7	11.7
132.5°	8.0	8.8	9.1	9.9	9.9	10.2	10.2	10.6	10.6	10.6	10.2
135°	7.3	7.7	8.0	8.8	8.8	9.1	9.1	9.1	9.1	9.1	9.1
137.5°	6.6	6.9	7.3	7.7	7.7	8.0	8.0	8.0	8.0	8.4	8.0
140°	5.5	6.2	6.6	6.6	6.9	6.9	6.9	7.3	7.3	7.3	6.9
142.5°	4.7	5.1	5.5	5.8	6.2	6.2	6.2	6.2	6.6	6.2	6.2
145°	3.7	4.4	4.7	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5
147.5°	2.9	3.3	4.0	4.4	4.4	4.7	4.7	4.7	4.7	4.7	4.7
150°	2.6	2.6	3.3	3.7	4.0	4.0	4.0	4.0	4.0	4.0	4.0
152.5°	1.8	2.2	2.6	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
155°	1.8	1.8	2.2	2.2	2.6	2.6	2.6	2.6	2.9	2.6	2.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	703.9	703.5	705.0	703.5	696.2	699.1	698.1	702.1	702.4	703.5	707.2
5°	700.2	700.2	702.1	700.6	693.7	696.6	696.2	700.2	701.0	701.7	705.7
7.5°	692.9	693.3	695.9	694.8	687.5	691.8	691.5	696.2	697.7	699.1	702.8
10°	686.0	685.6	688.6	687.5	680.5	685.6	685.3	690.0	692.2	694.8	699.1
12.5°	682.4	681.3	682.4	681.3	673.6	677.6	678.0	683.4	686.0	689.3	694.4
15°	682.4	680.5	680.5	678.3	669.6	672.1	672.5	676.1	679.4	682.7	688.9
17.5°	681.6	679.8	679.4	677.6	668.1	668.1	667.8	670.3	672.1	675.4	682.0
20°	677.6	676.9	676.5	675.4	666.7	665.2	664.5	664.5	665.6	666.7	673.2
22.5°	667.0	667.8	668.5	669.2	662.3	659.7	660.1	659.4	658.3	658.3	663.7
25°	647.3	651.0	653.9	657.2	653.1	651.3	653.5	652.4	650.6	649.1	653.9
27.5°	615.9	623.6	629.8	637.8	638.2	636.7	642.6	641.8	641.5	639.3	642.9
30°	572.5	584.5	592.9	604.6	614.4	615.9	625.8	627.2	628.7	627.6	631.2
32.5°	519.9	536.3	550.6	568.8	578.3	586.7	600.6	606.4	612.3	614.1	618.1
35°	462.6	481.2	498.0	518.1	533.0	551.3	568.1	576.8	590.0	595.1	600.9
37.5°	408.2	425.7	442.1	462.2	486.3	505.3	526.1	545.8	563.7	571.0	579.8
40°	360.0	374.2	389.9	407.4	429.3	454.2	476.8	504.2	525.4	540.0	552.7
42.5°	323.5	330.4	343.9	359.6	377.1	402.3	425.3	456.0	481.6	502.4	523.5
45°	291.0	294.3	304.1	312.5	330.4	352.7	377.1	407.1	433.7	460.4	485.9
47.5°	263.2	267.2	272.0	277.1	289.9	308.5	329.7	356.7	383.3	414.4	443.6
50°	244.6	245.7	246.4	248.6	256.3	269.1	286.2	309.2	334.8	368.0	399.0
52.5°	228.2	228.2	226.0	224.9	227.8	235.8	245.7	262.1	288.4	319.1	351.9
55°	210.7	207.4	206.6	203.0	203.7	207.4	212.1	224.9	246.4	272.7	304.5
57.5°	186.2	184.7	184.7	183.3	180.4	182.2	183.3	192.4	207.7	230.4	258.1
60°	158.1	157.4	159.2	159.5	157.0	158.1	157.7	163.2	174.1	192.4	215.4
62.5°	130.0	133.3	133.6	135.1	133.6	133.3	135.1	139.8	145.3	159.2	177.1
65°	109.2	111.0	111.4	113.2	112.4	112.4	113.9	117.6	120.8	130.3	144.2
67.5°	95.7	94.9	95.3	96.4	95.3	94.9	96.0	98.2	100.8	106.6	116.5
70°	85.1	84.3	84.3	84.3	82.9	81.8	82.1	82.9	84.0	87.3	93.5
72.5°	77.0	77.0	75.9	74.8	73.7	73.0	72.3	71.6	71.2	72.3	75.6
75°	69.7	70.1	69.7	68.6	67.2	65.7	64.3	62.8	61.0	60.2	60.6
77.5°	63.2	63.5	63.9	63.5	62.1	60.2	58.0	55.9	53.3	50.7	49.3
80°	57.3	58.0	58.4	58.0	57.0	55.5	52.9	50.4	46.7	43.4	39.8
82.5°	52.2	53.3	53.7	53.7	52.9	51.5	48.6	45.6	41.6	37.2	32.5
85°	48.2	48.9	49.7	49.7	49.3	47.8	44.9	41.6	37.6	32.5	27.4
87.5°	44.2	44.5	45.3	46.0	45.3	43.8	41.3	37.6	33.6	28.5	22.6
90°	40.2	40.5	41.3	42.0	41.6	40.2	38.0	34.7	30.3	24.8	19.0
92.5°	36.1	36.9	37.2	37.6	38.0	36.9	35.0	31.8	27.4	21.9	16.4
95°	33.2	33.2	34.0	34.3	34.7	33.6	32.1	28.8	24.8	19.7	14.2
97.5°	30.3	30.3	31.0	31.0	31.4	30.7	29.2	26.3	22.3	17.5	12.0
100°	27.4	27.7	28.1	28.5	28.5	28.1	26.7	23.7	20.1	15.7	10.6
102.5°	25.6	25.6	25.9	25.9	26.3	25.6	24.1	21.5	17.9	13.9	9.1
105°	23.7	23.7	24.1	24.1	23.7	23.0	21.5	19.3	16.1	12.0	8.0
107.5°	22.3	22.3	22.3	22.3	21.9	21.2	19.7	17.2	14.2	11.0	7.3
110°	21.2	20.8	20.8	20.4	20.1	19.0	17.5	15.3	12.8	9.5	6.2

TEST NUMBER: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	20.1	19.7	19.3	19.0	18.3	17.2	15.7	13.9	11.3	8.4	5.5
115°	19.0	18.6	18.3	17.5	16.8	15.7	14.2	12.4	9.9	7.3	4.7
117.5°	17.9	17.5	16.8	16.1	15.3	14.2	12.8	11.0	8.8	6.6	4.4
120°	16.4	16.1	15.7	15.0	14.2	12.8	11.3	9.9	7.7	5.8	3.7
122.5°	15.3	15.0	14.2	13.9	12.8	11.7	10.2	8.8	6.9	5.1	3.3
125°	13.9	13.5	13.1	12.4	11.7	10.2	9.1	7.7	6.2	4.4	2.6
127.5°	12.8	12.4	11.7	11.0	10.2	9.1	8.0	6.9	5.5	3.7	2.6
130°	11.3	11.0	10.6	9.9	9.1	8.0	7.3	5.8	4.7	3.3	2.2
132.5°	9.9	9.9	9.5	8.8	8.0	7.3	6.2	5.1	4.0	2.9	1.8
135°	9.1	8.8	8.4	7.7	7.3	6.2	5.5	4.4	3.3	2.6	1.5
137.5°	8.0	7.7	7.3	6.9	6.2	5.5	4.7	3.7	2.9	2.2	1.5
140°	6.9	6.6	6.6	5.8	5.5	4.7	4.0	3.3	2.6	1.8	1.1
142.5°	6.2	5.8	5.5	5.1	4.7	4.0	3.3	2.6	2.2	1.5	1.1
145°	5.5	5.1	4.7	4.4	4.0	3.3	2.9	2.2	1.8	1.5	1.1
147.5°	4.4	4.4	4.0	3.7	3.3	2.9	2.6	2.2	1.5	1.1	0.7
150°	3.7	3.7	3.3	2.9	2.9	2.6	2.2	1.8	1.5	1.1	0.7
152.5°	3.3	2.9	2.9	2.6	2.6	2.2	1.8	1.5	1.1	1.1	0.7
155°	2.6	2.6	2.6	2.2	2.2	1.8	1.5	1.5	1.1	0.7	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	707.9	703.5	707.2	713.8	713.0	712.3	711.6	713.0	717.8	715.2	711.2
5°	706.8	702.4	706.4	712.7	712.3	711.2	710.5	711.9	716.7	714.1	709.7
7.5°	704.6	700.6	703.5	709.7	709.7	709.0	708.3	709.7	714.1	711.9	707.5
10°	701.0	698.1	701.0	706.8	707.2	705.7	705.0	706.8	711.2	710.1	706.4
12.5°	698.1	695.1	698.4	704.3	704.6	703.2	702.1	704.3	710.1	710.8	709.7
15°	694.0	691.5	695.5	701.7	701.7	700.6	700.6	703.5	711.6	714.8	716.7
17.5°	688.2	686.4	691.1	697.3	697.7	697.0	697.3	703.2	713.8	721.8	726.9
20°	680.9	680.2	685.3	691.8	692.9	693.3	695.1	703.9	718.5	729.5	734.6
22.5°	672.1	672.5	678.3	685.3	686.7	687.8	691.5	703.9	722.1	733.8	736.0
25°	662.3	663.4	669.6	678.0	679.8	682.0	688.2	704.3	723.2	730.9	727.3
27.5°	651.7	653.9	661.9	670.7	672.9	676.5	684.5	702.1	718.1	718.5	705.0
30°	640.7	643.3	652.8	663.0	666.7	670.3	680.2	697.0	705.7	694.0	670.3
32.5°	628.3	632.0	641.5	653.9	658.3	663.0	672.9	687.1	683.8	658.6	624.7
35°	612.6	617.7	628.7	643.3	647.3	653.5	660.4	663.7	649.1	613.4	575.0
37.5°	593.3	600.9	613.7	630.5	634.9	638.9	640.7	631.6	602.4	563.7	523.9
40°	571.0	582.7	596.6	615.2	619.6	619.6	613.0	593.6	556.8	506.0	461.8
42.5°	544.0	558.2	575.7	594.4	598.7	593.6	577.9	544.0	502.0	445.4	398.7
45°	511.1	530.1	549.8	569.2	571.4	560.0	531.9	488.9	437.0	384.4	339.9
47.5°	472.1	496.9	518.4	540.3	537.4	518.4	480.8	431.9	377.1	327.5	291.7
50°	428.3	457.5	481.6	502.4	496.2	469.9	425.7	374.6	320.2	277.8	248.3
52.5°	381.5	415.1	439.2	456.0	447.6	416.2	367.6	318.7	274.2	235.5	215.8
55°	333.0	366.9	391.7	404.9	393.9	360.0	312.2	267.6	225.6	200.4	188.8
57.5°	285.9	317.6	341.0	351.6	337.7	303.8	259.6	222.0	191.7	170.5	164.7
60°	240.6	266.5	288.8	296.8	281.8	250.5	212.5	182.5	160.3	145.7	142.8
62.5°	198.6	219.8	237.3	243.5	228.9	204.5	171.6	149.3	133.6	126.3	122.7
65°	163.9	176.3	194.2	193.1	184.4	161.7	137.6	121.9	111.7	107.0	104.8
67.5°	128.9	140.2	151.5	153.0	142.0	126.3	110.6	99.3	93.8	91.3	90.2
70°	99.7	108.1	115.0	113.2	107.3	97.5	87.6	81.4	79.2	78.1	78.1
72.5°	77.4	81.8	85.1	82.9	79.2	74.1	69.4	66.8	67.2	67.9	68.6
75°	59.9	61.0	61.7	59.5	58.8	55.5	55.1	55.5	57.7	59.9	61.0
77.5°	46.0	44.5	43.4	41.3	41.6	41.3	43.1	46.0	49.3	52.6	55.5
80°	35.4	32.1	29.6	27.4	28.5	30.3	34.0	38.3	42.7	46.4	50.0
82.5°	27.4	22.6	19.0	16.8	19.0	21.9	26.7	32.1	37.2	41.3	45.3
85°	21.2	15.7	11.3	9.1	11.3	15.7	20.8	27.0	32.5	36.9	40.9
87.5°	16.4	11.3	6.2	3.7	6.2	11.0	16.8	22.6	28.1	33.2	37.2
90°	13.1	7.7	2.9	0.7	3.3	7.7	13.1	19.0	24.5	29.9	34.0
92.5°	10.6	5.5	1.5	0.0	1.8	5.8	11.0	16.4	21.9	27.0	31.0
95°	8.8	4.4	1.1	0.0	1.5	4.4	8.8	14.2	19.3	24.5	27.7
97.5°	7.3	3.3	0.7	0.0	0.7	3.7	7.3	12.0	17.2	21.9	25.2
100°	6.2	2.9	0.7	0.0	0.7	2.9	6.2	10.6	15.0	19.3	22.6
102.5°	5.1	2.2	0.4	0.4	0.4	2.2	5.5	9.1	13.1	17.2	20.4
105°	4.7	1.8	0.4	0.4	0.4	1.8	4.7	8.0	11.7	15.3	18.3
107.5°	4.0	1.5	0.4	0.4	0.4	1.5	4.0	6.9	10.6	13.9	16.4
110°	3.3	1.5	0.4	0.4	0.4	1.5	3.3	6.2	9.1	12.0	14.6

TEST NUMBER: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	2.9	1.1	0.4	0.4	0.4	1.1	2.9	5.5	8.0	11.0	13.1
115°	2.6	1.1	0.4	0.4	0.4	1.1	2.6	4.7	6.9	9.5	11.7
117.5°	2.2	1.1	0.4	0.4	0.4	0.7	2.2	4.0	6.2	8.4	10.6
120°	1.8	0.7	0.4	0.4	0.4	0.7	1.8	3.7	5.5	7.3	9.1
122.5°	1.8	0.7	0.4	0.4	0.4	0.7	1.5	2.9	4.7	6.2	8.0
125°	1.5	0.7	0.4	0.4	0.4	0.4	1.5	2.6	4.0	5.5	6.9
127.5°	1.5	0.7	0.4	0.4	0.4	0.4	1.1	2.2	3.3	4.7	6.2
130°	1.1	0.7	0.4	0.4	0.4	0.4	0.7	1.8	2.9	4.0	5.1
132.5°	1.1	0.7	0.4	0.4	0.4	0.4	0.7	1.5	2.2	3.3	4.4
135°	1.1	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.8	2.6	3.3
137.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.5	1.8	2.9
140°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.5	2.2
142.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.8
145°	0.7	0.4	0.4	0.7	0.7	0.4	0.4	0.7	0.7	1.1	1.5
147.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	710.5	702.1	706.4	705.0	706.4	710.1	709.7	708.6	709.4	707.5	705.7
5°	709.0	700.6	705.0	703.2	705.0	708.6	707.9	706.8	707.9	705.7	703.9
7.5°	707.2	699.5	704.6	704.3	707.5	712.3	712.7	712.7	715.2	711.9	710.5
10°	707.2	703.2	710.1	712.7	721.1	727.3	728.0	729.5	733.8	733.1	729.5
12.5°	714.8	714.1	724.3	730.5	738.2	747.0	751.7	753.2	756.1	753.9	752.5
15°	724.7	728.4	739.7	746.6	755.0	761.6	762.7	763.4	765.6	762.3	759.8
17.5°	737.8	740.0	749.2	752.1	757.6	758.7	757.2	753.5	753.5	746.2	744.1
20°	744.1	743.0	746.6	741.9	739.7	733.1	726.9	720.0	719.6	711.9	711.2
22.5°	738.6	731.3	723.6	711.9	706.8	697.3	688.9	684.9	682.4	672.5	669.9
25°	719.2	701.3	690.0	676.1	663.7	652.8	644.7	636.4	628.3	620.3	616.6
27.5°	685.6	668.8	650.6	631.2	614.1	597.3	583.8	575.4	567.7	557.1	551.7
30°	644.4	621.0	600.9	582.3	554.2	533.8	522.4	505.7	499.8	495.1	484.8
32.5°	595.8	567.7	540.3	515.1	486.3	467.3	452.3	439.9	436.3	423.9	420.9
35°	542.2	505.3	474.3	449.4	428.6	405.6	393.2	384.8	377.5	369.1	367.6
37.5°	479.0	445.8	410.7	388.8	372.4	352.7	343.2	337.3	334.1	327.9	326.8
40°	415.5	382.2	358.2	336.2	326.0	315.4	308.5	305.9	304.5	302.3	300.1
42.5°	357.8	328.6	311.4	296.8	292.4	287.3	285.5	287.0	285.5	284.8	284.4
45°	308.9	286.6	274.5	270.2	269.1	267.6	269.1	271.6	272.0	271.3	271.3
47.5°	264.3	253.7	248.6	249.4	251.2	252.3	254.8	258.1	258.8	257.0	257.8
50°	235.1	228.9	227.8	230.7	234.8	236.2	239.1	241.7	241.3	240.6	239.9
52.5°	207.7	205.9	208.8	211.8	216.1	216.9	218.0	219.1	218.7	217.2	216.5
55°	184.7	186.2	188.8	189.8	193.1	192.8	193.1	193.1	191.7	190.9	189.8
57.5°	163.9	164.3	165.8	166.1	167.9	167.2	166.8	166.1	163.9	163.6	162.5
60°	142.8	142.0	145.3	142.8	144.2	142.8	142.4	140.6	138.4	138.0	137.3
62.5°	122.7	121.2	123.4	122.3	123.0	121.6	120.8	118.7	116.8	116.5	116.1
65°	104.8	104.1	106.2	105.9	106.6	104.8	104.1	102.6	101.1	100.8	100.4
67.5°	89.8	91.6	92.7	92.7	93.5	93.1	91.3	90.9	90.5	89.1	89.1
70°	78.9	80.0	82.1	82.5	82.1	82.9	81.4	81.1	80.7	80.0	79.6
72.5°	70.1	71.6	73.7	74.1	73.7	73.7	73.0	72.7	72.7	71.6	71.6
75°	63.2	65.0	66.8	66.8	66.8	66.1	65.4	65.4	64.6	64.3	63.5
77.5°	57.3	59.5	61.0	60.6	60.2	59.5	59.5	58.4	57.3	57.3	56.6
80°	52.9	54.4	55.5	55.1	54.8	53.7	53.3	52.2	51.5	50.4	50.4
82.5°	48.2	50.0	50.7	50.4	49.7	48.6	48.2	47.5	46.7	46.4	45.6
85°	44.2	46.0	46.4	45.6	44.9	44.2	43.8	43.4	43.1	42.4	42.4
87.5°	40.2	42.0	42.0	41.6	40.9	40.5	40.2	39.8	39.4	39.1	38.7
90°	36.9	38.3	38.3	38.0	37.6	37.2	36.9	36.5	36.1	35.8	35.8
92.5°	33.6	35.0	35.0	34.7	34.3	34.0	34.0	33.6	33.2	32.9	32.5
95°	30.7	32.1	32.1	32.1	31.8	31.4	31.4	31.0	30.7	30.7	30.3
97.5°	27.7	29.2	29.2	29.2	28.8	28.5	28.5	28.1	28.1	28.1	27.7
100°	25.2	26.3	26.7	26.7	26.3	26.3	26.3	25.9	25.9	25.9	25.6
102.5°	22.6	23.7	24.5	24.5	24.5	24.1	24.1	24.1	24.1	24.1	23.7
105°	20.4	21.5	22.3	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
107.5°	18.6	19.7	20.4	20.8	21.2	21.2	21.5	21.5	21.5	21.5	21.5
110°	16.8	17.9	19.0	19.3	19.7	20.1	20.1	20.4	20.1	20.1	20.1

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CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	15.0	16.4	17.2	17.9	18.3	18.6	19.0	19.0	19.0	19.0	19.0
115°	13.5	15.0	15.7	16.4	17.2	17.5	17.5	17.9	17.9	17.9	17.5
117.5°	12.0	13.5	14.2	15.0	15.3	16.1	16.4	16.4	16.4	16.4	16.1
120°	11.0	12.0	12.8	13.5	14.2	14.6	15.0	15.0	15.0	15.0	15.0
122.5°	9.5	10.6	11.7	12.4	12.8	13.1	13.5	13.5	13.5	13.5	13.5
125°	8.4	9.5	10.2	11.0	11.3	12.0	12.0	12.0	12.0	12.0	12.0
127.5°	7.3	8.4	9.1	9.9	10.2	10.6	11.0	11.0	11.0	11.0	11.0
130°	6.2	7.3	8.0	8.8	9.1	9.5	9.5	9.9	9.9	9.9	9.9
132.5°	5.5	6.2	6.9	7.7	8.0	8.4	8.4	8.8	8.8	8.8	8.8
135°	4.4	5.5	5.8	6.6	6.9	7.3	7.3	7.7	7.7	7.7	7.7
137.5°	3.7	4.4	5.1	5.8	6.2	6.2	6.6	6.6	6.9	6.9	6.9
140°	2.9	3.3	4.4	4.7	5.1	5.5	5.8	5.8	5.8	5.8	5.8
142.5°	2.2	2.9	3.3	4.0	4.4	4.7	5.1	5.1	5.1	5.1	5.1
145°	1.8	2.2	2.6	3.3	3.7	4.0	4.4	4.4	4.4	4.4	4.4
147.5°	1.5	1.8	2.2	2.6	2.9	3.3	3.7	3.7	3.7	3.7	3.7
150°	1.1	1.5	1.8	1.8	2.2	2.6	2.9	3.3	3.3	3.3	3.3
152.5°	1.1	1.1	1.5	1.5	1.8	2.2	2.6	2.6	2.6	2.6	2.6
155°	0.7	1.1	1.1	1.1	1.5	1.5	1.8	2.2	2.2	2.2	2.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	706.8	708.3	707.5	706.4	706.1	707.9	706.1	697.7	701.0	701.3	703.9
5°	705.7	706.8	706.1	705.4	704.3	706.4	704.3	695.5	698.8	699.1	701.7
7.5°	713.0	713.4	713.4	711.6	708.6	709.7	706.8	697.0	698.8	698.8	700.6
10°	731.3	732.0	733.1	728.4	724.7	721.8	717.8	705.7	705.4	702.4	702.4
12.5°	755.0	753.2	751.4	749.2	746.2	742.6	736.8	722.5	717.8	713.0	708.3
15°	761.9	761.2	760.8	759.8	757.9	756.8	752.5	738.2	731.3	725.4	717.0
17.5°	743.7	745.1	749.9	750.3	752.5	756.8	756.1	746.2	740.0	737.5	727.3
20°	710.8	711.2	717.0	719.6	729.1	736.4	741.9	740.8	739.3	742.2	734.6
22.5°	671.4	674.0	680.2	684.2	693.3	701.7	710.5	715.2	722.9	734.9	733.5
25°	617.7	621.0	629.8	636.4	649.1	661.9	673.6	682.0	691.1	714.1	721.8
27.5°	553.5	558.6	569.9	576.5	594.4	607.5	624.3	640.7	653.5	679.8	695.5
30°	485.9	490.3	502.4	511.5	526.8	544.7	565.9	589.3	610.4	637.1	656.8
32.5°	422.8	427.5	437.4	445.4	462.6	477.5	500.9	529.7	549.5	586.3	612.6
35°	367.6	372.0	379.0	385.9	400.1	415.5	435.6	463.7	488.9	527.2	560.4
37.5°	328.9	329.7	333.7	337.7	348.3	360.0	375.7	400.5	423.9	465.1	501.6
40°	301.2	301.2	303.4	304.5	309.2	316.2	326.0	345.4	364.7	396.1	440.7
42.5°	284.0	283.3	283.3	283.7	283.3	286.6	292.4	301.6	318.7	344.6	379.3
45°	271.3	269.8	268.7	266.2	264.7	264.7	265.1	268.3	278.2	295.0	323.1
47.5°	257.0	256.7	254.8	251.9	249.4	247.5	244.6	243.5	246.4	255.9	274.9
50°	240.6	238.8	236.9	234.8	231.8	230.0	224.5	224.9	222.3	226.7	236.6
52.5°	216.5	215.0	214.3	212.5	211.4	210.7	206.3	201.9	200.8	201.5	205.2
55°	189.8	190.6	187.7	189.1	188.8	185.5	183.6	180.4	179.3	178.9	180.7
57.5°	162.1	162.8	161.0	162.5	162.5	160.6	159.5	159.5	157.0	154.8	157.4
60°	136.9	135.4	136.5	138.4	138.4	137.3	136.5	136.5	134.7	134.0	135.8
62.5°	116.5	115.0	116.1	117.9	118.3	117.6	116.8	116.8	114.6	114.6	116.1
65°	100.8	101.1	100.8	102.2	102.2	102.6	101.9	101.1	98.6	99.7	99.3
67.5°	89.4	89.1	89.1	90.5	90.2	90.9	90.2	89.1	87.3	85.8	85.4
70°	80.0	79.6	79.6	80.3	80.7	80.7	80.3	79.6	77.0	75.6	74.5
72.5°	71.6	71.2	71.6	71.9	72.3	72.7	72.3	71.6	69.4	67.5	65.7
75°	63.9	63.5	64.6	64.6	65.0	65.0	65.4	65.0	63.2	61.0	58.8
77.5°	56.2	56.6	57.7	58.0	58.8	59.1	59.5	59.5	57.7	55.9	52.9
80°	50.0	50.7	51.5	51.8	52.6	53.7	54.0	54.4	52.9	51.1	47.8
82.5°	45.6	46.0	46.7	47.1	48.2	48.6	48.9	49.7	48.9	47.1	43.4
85°	42.0	42.4	43.1	43.1	43.8	44.5	44.9	45.3	44.9	43.1	39.4
87.5°	38.7	39.1	39.4	39.8	40.2	40.5	40.9	41.3	40.9	39.1	35.8
90°	35.8	35.8	36.1	36.1	36.5	36.9	37.6	37.6	37.2	35.8	32.5
92.5°	32.5	32.9	32.9	33.2	33.6	34.0	34.3	34.3	34.0	32.5	29.6
95°	30.3	30.3	30.7	30.7	31.0	31.0	31.4	31.4	31.0	29.6	26.7
97.5°	27.7	27.7	27.7	27.7	28.1	28.1	28.5	28.5	28.1	26.7	24.1
100°	25.6	25.6	25.6	25.6	25.6	25.9	25.9	25.9	25.6	24.1	21.5
102.5°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.0	21.9	19.3
105°	22.6	22.6	22.6	22.3	22.3	22.3	21.9	21.9	20.8	19.7	17.5
107.5°	21.2	21.2	21.2	20.8	20.8	20.4	20.1	20.1	19.0	17.9	15.7
110°	20.1	20.1	20.1	19.7	19.3	19.0	18.6	18.3	17.2	15.7	13.9

TEST NUMBER: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	19.0	19.0	18.6	18.6	18.3	17.9	17.2	16.8	15.7	14.2	12.4
115°	17.5	17.5	17.5	17.2	16.8	16.4	16.1	15.3	14.2	12.8	11.0
117.5°	16.1	16.1	16.1	15.7	15.3	15.0	14.6	13.9	12.8	11.3	9.9
120°	14.6	14.6	14.6	14.2	13.9	13.5	13.1	12.4	11.3	10.2	8.4
122.5°	13.5	13.5	13.1	12.8	12.4	12.0	11.7	11.0	10.2	8.8	7.3
125°	12.0	12.0	11.7	11.7	11.3	11.0	10.6	9.9	8.8	7.7	6.6
127.5°	11.0	10.6	10.6	10.6	10.2	9.9	9.1	8.8	7.7	6.6	5.5
130°	9.5	9.5	9.5	9.1	9.1	8.8	8.0	7.3	6.6	5.8	4.7
132.5°	8.4	8.4	8.4	8.4	8.0	7.7	6.9	6.6	5.8	4.7	4.0
135°	7.7	7.7	7.3	7.3	6.9	6.6	6.2	5.5	4.7	4.0	3.3
137.5°	6.6	6.6	6.6	6.2	6.2	5.8	5.1	4.7	4.4	3.7	2.9
140°	5.8	5.8	5.5	5.5	5.1	5.1	4.7	4.0	3.7	2.9	2.6
142.5°	5.1	5.1	4.7	4.7	4.4	4.4	4.0	3.7	2.9	2.6	1.8
145°	4.4	4.4	4.0	4.0	4.0	3.7	3.3	2.9	2.6	2.2	1.8
147.5°	3.7	3.7	3.7	3.3	3.3	2.9	2.9	2.6	2.2	1.8	1.5
150°	3.3	3.3	2.9	2.9	2.9	2.6	2.2	2.2	1.8	1.5	1.1
152.5°	2.6	2.6	2.6	2.6	2.2	2.2	1.8	1.8	1.5	1.1	1.1
155°	2.2	2.2	2.2	1.8	1.8	1.8	1.5	1.5	1.1	1.1	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	702.8	702.4	705.7	705.4	701.0	707.5	711.9
5°	701.0	700.6	703.5	704.3	699.5	706.4	711.2
7.5°	699.5	699.1	702.4	703.5	698.8	705.0	710.1
10°	699.9	698.1	701.0	701.7	697.3	703.9	708.3
12.5°	702.4	698.1	699.1	699.1	695.1	701.0	705.7
15°	708.6	699.5	698.1	697.0	691.8	697.3	702.1
17.5°	715.6	703.2	698.1	694.4	688.2	692.9	698.1
20°	722.5	707.2	698.8	692.9	684.5	688.9	692.6
22.5°	725.8	710.8	699.5	690.8	680.2	682.4	686.4
25°	721.4	709.4	698.1	687.5	674.7	675.1	678.3
27.5°	705.4	702.1	694.8	684.2	670.3	668.5	671.0
30°	678.0	687.1	687.5	679.8	665.2	661.5	662.6
32.5°	639.6	660.1	672.1	670.7	657.9	652.8	653.5
35°	595.5	621.0	647.3	656.1	646.9	642.9	641.5
37.5°	542.5	576.8	611.9	633.4	632.0	629.4	628.0
40°	484.1	525.4	567.0	601.3	611.9	611.9	612.6
42.5°	421.7	469.9	515.5	559.0	583.8	589.3	591.4
45°	361.4	410.0	459.6	509.7	542.9	560.0	566.3
47.5°	306.7	355.6	402.7	457.5	501.6	523.9	533.8
50°	259.9	296.5	346.1	400.5	448.7	476.1	495.4
52.5°	221.2	249.7	293.2	343.9	392.5	430.1	448.0
55°	188.8	208.1	245.0	288.8	335.2	374.2	395.0
57.5°	161.4	176.7	201.9	238.4	277.5	316.2	338.4
60°	137.3	147.9	165.0	193.9	227.1	260.3	281.8
62.5°	116.5	123.4	134.7	155.9	181.8	207.7	227.8
65°	100.4	103.3	109.5	122.7	142.4	162.1	179.3
67.5°	84.7	86.5	91.3	99.3	109.2	123.4	134.7
70°	73.0	73.0	73.4	78.1	83.2	92.4	100.4
72.5°	63.5	62.4	60.2	61.3	62.4	67.5	72.7
75°	55.9	53.3	49.7	48.2	47.5	48.2	51.1
77.5°	49.3	45.6	41.3	37.6	34.7	33.6	36.1
80°	43.8	39.4	34.3	29.6	24.8	22.3	23.4
82.5°	39.4	34.0	28.5	23.0	17.5	13.9	13.9
85°	34.7	29.6	23.7	17.9	12.4	7.7	6.9
87.5°	31.4	25.9	19.7	14.2	8.8	4.0	2.2
90°	28.1	22.6	16.8	11.3	6.2	1.8	0.0
92.5°	25.2	20.1	14.6	9.1	4.4	1.1	0.0
95°	22.6	17.9	12.4	7.7	3.7	0.7	0.4
97.5°	20.1	15.7	11.0	6.2	2.6	0.7	0.4
100°	18.3	13.9	9.5	5.1	2.2	0.4	0.4
102.5°	16.1	12.4	8.0	4.4	1.8	0.4	0.4
105°	14.2	11.0	6.9	3.7	1.5	0.4	0.4
107.5°	12.8	9.5	6.2	3.3	1.5	0.4	0.4
110°	11.3	8.4	5.5	2.9	1.1	0.4	0.4

TEST NUMBER: P1213667

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	10.2	7.3	4.7	2.6	0.7	0.4	0.4
115°	8.8	6.6	4.0	2.2	0.7	0.4	0.4
117.5°	7.7	5.5	3.7	1.8	0.7	0.4	0.4
120°	6.6	4.7	2.9	1.5	0.4	0.4	0.4
122.5°	5.8	4.0	2.6	1.5	0.4	0.4	0.4
125°	5.1	3.7	2.2	1.1	0.4	0.4	0.4
127.5°	4.4	2.9	1.8	0.7	0.4	0.4	0.4
130°	3.7	2.6	1.5	0.7	0.4	0.4	0.4
132.5°	2.9	2.2	1.5	0.7	0.4	0.4	0.4
135°	2.6	1.8	1.1	0.7	0.4	0.4	0.4
137.5°	2.2	1.5	0.7	0.7	0.7	0.4	0.4
140°	1.8	1.1	0.7	0.7	0.7	0.7	0.4
142.5°	1.5	1.1	0.7	0.7	0.7	0.7	0.4
145°	1.1	0.7	0.7	0.7	0.7	0.7	0.4
147.5°	1.1	0.7	0.7	0.7	0.7	0.7	0.4
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)