

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: P1213317

Luminaire Tested: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

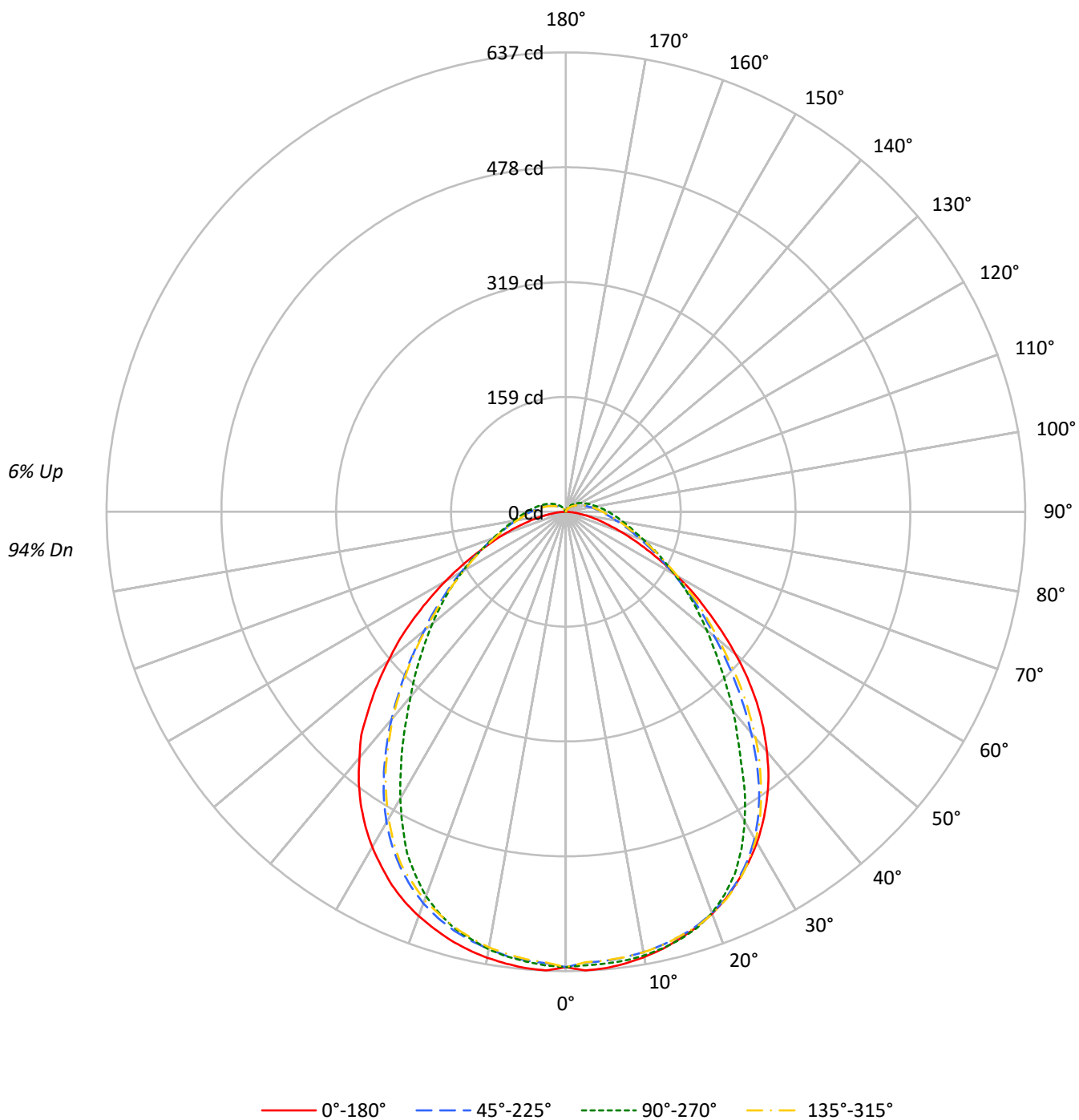
Lumens per Lamp: N/A
Luminaire Lumens: 1598.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10205	10205	10205	10205
5°	10251	9880	10251	9836
10°	10176	9617	10194	9485
15°	10083	9330	10129	9087
20°	9976	8961	10035	8583
25°	9787	8412	9894	7918
30°	9547	7608	9673	7043
35°	9193	6620	9368	6165
40°	8696	5790	8927	5372
45°	8054	5034	8317	4745
50°	7193	4423	7509	4199
55°	6183	3905	6630	3707
60°	5157	3430	5623	3232
65°	4182	3032	4603	2812
70°	3279	2692	3670	2489
75°	2517	2484	2830	2286
80°	1745	2398	2055	2189
85°	973	2411	1320	2215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 8317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.7
10°-20°	171.7	10.7
20°-30°	254.4	15.9
30°-40°	282.6	17.7
40°-50°	256.2	16.0
50°-60°	198.5	12.4
60°-70°	134.8	8.4
70°-80°	85.8	5.4
80°-90°	54.8	3.4
90°-100°	37.0	2.3
100°-110°	25.3	1.6
110°-120°	16.9	1.1
120°-130°	10.5	0.7
130°-140°	5.8	0.4
140°-150°	2.7	0.2
150°-160°	1.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	485.9	30.4
0°-40°	768.6	48.1
0°-60°	1223.3	76.6
0°-90°	1498.7	93.8
90°-120°	79.2	5.0
90°-150°	98.2	6.1
90°-180°	99.0	6.2
0°-180°	1598.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	631	631	631	631	631	
5°	635	629	635	626	635	60
15°	613	614	616	598	613	173
25°	565	554	571	522	565	260
35°	486	424	496	395	486	303
45°	374	303	387	286	374	288
55°	239	213	256	202	239	215
65°	124	143	136	133	124	124
75°	50	96	56	88	50	54
85°	9	69	12	63	9	11
90°	0	59	1	54	0	1
95°	0	51	0	47	0	0
105°	0	37	0	35	0	0
115°	0	28	0	26	0	0
125°	0	21	0	18	0	0
135°	0	15	0	12	0	0
145°	0	9	0	7	0	0
155°	0	5	0	2	0	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°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	636.6	636.0	635.3	634.2	635.3	638.0	636.3	632.5	631.8	625.5	628.3
5°	635.3	634.2	633.5	632.5	633.9	637.3	635.6	632.1	631.1	625.2	628.3
7.5°	631.8	631.1	630.0	630.0	631.4	634.9	633.5	629.7	629.0	623.1	626.6
10°	626.9	626.6	625.9	625.9	627.3	631.4	629.7	626.2	625.5	620.0	623.8
12.5°	620.7	621.0	620.0	620.0	622.1	626.2	624.8	621.0	620.3	615.5	619.3
15°	612.7	613.0	612.3	612.7	614.8	619.6	617.9	614.4	613.7	609.9	613.0
17.5°	603.7	604.0	604.0	603.7	606.1	610.9	609.6	606.4	605.4	602.3	606.1
20°	593.2	593.2	593.2	593.2	596.0	600.9	599.1	596.7	594.6	592.2	595.3
22.5°	580.4	580.0	580.4	581.4	584.2	588.0	587.0	584.2	581.1	579.7	582.1
25°	564.8	565.8	566.1	567.2	570.7	573.8	572.7	570.0	565.1	564.1	564.8
27.5°	548.4	549.1	550.2	549.8	554.7	557.8	555.7	553.3	546.3	545.3	544.6
30°	530.0	531.1	531.8	531.4	535.2	538.7	536.6	533.5	524.1	523.4	517.9
32.5°	509.2	510.2	510.9	510.9	516.5	517.9	514.0	509.5	499.5	497.0	492.2
35°	486.3	487.3	487.6	487.6	493.2	492.9	488.0	481.7	470.6	467.5	459.2
37.5°	461.6	462.3	462.6	464.7	467.2	465.1	458.8	450.8	442.5	433.8	424.8
40°	433.8	434.9	435.5	436.9	439.4	436.9	427.9	418.2	409.1	399.4	390.4
42.5°	405.3	408.5	407.8	407.4	408.8	402.2	395.3	384.1	375.1	365.0	356.0
45°	374.4	374.1	375.8	376.5	376.2	370.6	360.9	350.8	341.8	331.3	323.7
47.5°	341.8	341.4	342.8	343.5	341.4	335.5	327.9	316.4	308.8	299.7	293.8
50°	307.4	307.4	309.5	307.4	306.3	300.4	294.2	282.7	276.8	268.8	265.4
52.5°	273.0	276.1	274.0	273.3	272.3	266.4	261.5	252.2	247.3	243.8	239.7
55°	239.0	242.4	241.0	240.0	239.7	234.8	230.3	223.3	220.2	217.8	215.3
57.5°	210.1	209.8	209.1	208.0	208.4	204.6	200.1	196.2	194.8	193.8	194.5
60°	176.8	179.6	178.5	178.9	179.2	178.5	174.7	172.3	172.6	173.0	174.0
62.5°	149.3	151.8	153.5	152.1	152.8	153.9	151.8	151.1	152.5	153.9	155.3
65°	124.0	126.4	128.2	127.8	129.9	132.0	131.6	132.3	135.5	137.2	138.9
67.5°	101.1	103.5	105.9	106.3	109.4	112.5	113.9	116.4	119.8	122.3	124.3
70°	81.3	83.4	86.1	87.9	92.0	96.2	98.6	103.5	105.6	109.1	110.4
72.5°	63.6	65.3	69.1	73.3	76.8	82.0	86.8	91.0	94.1	97.9	99.7
75°	49.7	50.4	54.5	59.4	64.3	70.2	75.4	79.9	84.1	87.9	90.7
77.5°	36.5	37.5	41.3	47.9	53.5	59.7	65.6	70.5	75.0	78.8	82.7
80°	25.4	27.4	31.6	38.2	44.5	51.4	57.0	62.5	67.4	71.2	75.0
82.5°	16.3	18.1	24.0	30.6	37.2	44.1	50.0	55.6	60.8	64.9	68.4
85°	9.0	11.5	17.4	24.3	30.9	37.9	44.1	49.7	54.9	58.7	62.2
87.5°	3.5	6.9	12.5	19.1	25.7	32.3	38.9	44.1	49.3	53.5	56.6
90°	0.0	4.2	9.4	16.0	22.6	29.2	35.4	41.0	45.8	49.7	53.1
92.5°	0.3	2.8	7.3	12.9	19.1	25.4	31.3	36.8	41.7	45.5	48.6
95°	0.3	2.1	5.9	11.1	16.7	22.6	28.1	33.3	37.9	41.7	44.8
97.5°	0.3	1.4	4.9	9.7	14.6	20.5	25.7	30.6	34.7	38.6	41.0
100°	0.3	1.4	4.2	8.3	13.2	18.4	23.3	28.1	32.0	35.1	37.9
102.5°	0.3	1.0	3.5	7.3	11.8	16.3	21.2	25.7	29.2	32.3	35.1
105°	0.3	1.0	3.1	6.3	10.4	14.9	19.1	23.3	27.1	29.9	32.3
107.5°	0.3	0.7	2.8	5.2	9.0	13.5	17.7	21.2	24.7	27.4	29.9
110°	0.3	0.7	2.4	4.9	8.0	12.2	16.0	19.5	22.6	25.4	27.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.3	0.7	2.1	4.5	7.3	10.8	14.6	17.7	20.8	23.3	25.4
115°	0.3	0.7	2.1	4.2	6.6	9.4	12.9	16.3	18.8	21.5	23.3
117.5°	0.3	0.7	1.7	3.5	6.3	8.7	11.8	14.6	17.4	19.8	21.5
120°	0.3	0.7	1.7	3.1	5.6	8.0	10.4	13.2	16.0	17.7	19.5
122.5°	0.3	0.7	1.4	3.1	4.9	7.3	9.4	11.8	14.2	16.3	18.1
125°	0.3	0.7	1.4	2.8	4.5	6.6	8.7	10.4	12.9	14.6	16.3
127.5°	0.3	0.7	1.4	2.4	4.2	5.9	8.0	9.7	11.5	13.2	14.6
130°	0.3	0.7	1.0	2.1	3.8	5.2	6.9	9.0	10.4	11.8	13.2
132.5°	0.3	0.7	1.0	2.1	3.1	4.5	6.3	8.0	9.4	10.8	11.8
135°	0.3	0.7	1.0	1.7	2.8	4.2	5.2	6.9	8.3	9.7	10.8
137.5°	0.3	0.7	1.0	1.7	2.4	3.5	4.5	5.9	7.3	8.3	9.7
140°	0.3	0.7	1.0	1.4	2.1	3.1	4.2	4.9	6.3	7.3	8.3
142.5°	0.3	0.7	1.0	1.4	2.1	2.8	3.5	4.2	5.2	6.3	7.3
145°	0.3	0.7	1.0	1.4	1.7	2.4	3.1	3.8	4.2	5.2	5.9
147.5°	0.3	0.7	1.0	1.4	1.4	2.1	2.8	3.1	3.8	4.2	4.9
150°	0.3	0.7	1.0	1.0	1.4	1.7	2.4	2.8	3.1	3.8	4.2
152.5°	0.3	0.7	1.0	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5
155°	0.3	0.7	1.0	1.0	1.0	1.4	1.7	2.1	2.4	2.8	3.1
157.5°	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.7	2.1	2.1	2.4
160°	0.7	0.7	0.7	1.0	1.0	1.0	1.4	1.4	1.7	1.7	2.1
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°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	627.6	628.7	631.8	631.8	631.1	630.4	630.4	629.4	630.0	631.4	630.7
5°	627.6	628.7	631.8	631.8	631.1	630.4	630.0	629.0	630.0	631.4	630.7
7.5°	625.5	626.9	630.0	630.0	629.4	629.0	628.3	627.6	628.7	630.0	629.4
10°	622.8	624.1	627.3	627.3	626.6	626.6	625.5	624.8	626.2	627.3	626.9
12.5°	618.6	620.3	623.1	622.8	622.1	622.4	621.4	620.0	621.4	622.4	622.8
15°	612.7	614.8	617.5	616.8	615.8	616.5	614.8	613.7	614.8	616.8	616.5
17.5°	605.0	606.4	608.5	608.5	607.5	606.8	606.1	605.0	605.7	607.1	607.5
20°	594.3	596.0	597.1	596.0	595.7	594.6	593.2	592.2	593.6	595.7	596.0
22.5°	580.0	580.4	582.8	580.4	578.6	578.3	576.9	574.8	576.9	578.6	579.0
25°	562.3	564.1	563.0	558.8	558.8	556.1	555.4	554.3	554.7	557.8	559.2
27.5°	539.7	540.4	537.7	534.2	531.1	529.3	526.9	527.2	527.2	531.4	532.8
30°	515.1	511.3	508.8	503.3	500.8	496.7	496.0	496.0	495.3	497.4	503.6
32.5°	485.6	480.4	476.5	471.3	467.2	463.0	460.9	461.9	461.6	466.8	468.9
35°	453.3	450.1	442.1	435.5	433.1	426.9	426.9	423.7	425.8	431.7	434.2
37.5°	419.2	414.4	407.8	400.5	398.7	393.9	392.1	390.4	394.9	396.0	398.4
40°	384.5	380.0	373.7	366.8	366.8	360.9	360.9	360.9	361.2	363.3	367.8
42.5°	351.5	346.6	341.1	336.2	335.5	331.0	331.0	330.7	331.3	333.1	337.3
45°	319.5	315.7	309.8	307.4	307.7	302.9	303.9	302.9	304.3	306.0	307.4
47.5°	290.0	287.6	285.2	281.7	280.6	280.3	278.6	277.2	279.6	279.6	281.7
50°	262.6	261.2	259.8	257.7	258.1	256.7	254.6	254.6	256.3	256.7	258.1
52.5°	238.6	236.9	235.1	235.5	235.8	235.1	234.1	233.1	234.1	234.8	236.5
55°	214.6	213.3	215.0	214.3	215.0	214.3	213.6	212.9	214.6	213.6	215.3
57.5°	193.1	194.5	195.2	193.8	194.8	194.2	194.5	193.5	194.8	195.5	195.2
60°	173.3	175.4	174.4	174.7	176.1	175.4	174.0	175.1	176.4	176.8	176.4
62.5°	155.3	157.7	158.7	158.0	158.4	157.7	158.7	157.3	159.1	159.8	158.7
65°	138.9	141.7	142.4	142.4	142.4	141.7	142.8	143.1	143.8	143.8	143.1
67.5°	125.0	127.5	128.2	128.9	128.2	127.5	127.5	127.8	129.2	129.9	129.2
70°	112.5	115.0	115.3	115.3	115.7	116.4	115.0	115.7	116.7	117.0	116.7
72.5°	101.8	104.2	104.9	104.5	104.9	105.2	105.2	104.5	105.6	106.3	106.3
75°	93.1	94.5	95.2	95.2	95.5	95.9	95.9	95.5	96.2	96.6	96.9
77.5°	85.1	86.1	87.2	87.2	87.5	87.2	87.9	87.9	88.2	88.6	88.9
80°	77.1	78.5	79.2	79.5	80.2	80.6	80.6	80.6	80.9	81.3	81.3
82.5°	70.9	71.9	72.9	74.0	74.0	74.3	74.3	74.3	74.7	74.7	75.0
85°	64.6	66.0	67.0	67.7	68.1	68.4	68.4	68.8	68.8	68.8	69.1
87.5°	59.0	60.8	61.5	62.2	62.5	63.2	63.2	63.2	63.6	63.6	63.6
90°	55.2	57.0	57.7	58.4	58.7	59.0	59.0	59.4	59.4	59.7	59.7
92.5°	50.7	52.4	53.8	53.8	54.2	54.9	54.5	54.5	54.9	55.2	55.2
95°	47.2	48.6	49.7	50.0	50.4	50.4	50.4	50.7	50.4	50.7	50.7
97.5°	43.1	44.5	45.5	46.2	46.5	46.5	46.5	46.9	46.5	46.9	46.9
100°	39.6	41.0	42.0	42.4	43.1	43.1	43.1	43.1	43.1	43.1	43.4
102.5°	36.8	38.2	38.9	39.2	39.6	39.9	39.9	39.9	39.9	40.3	40.3
105°	34.0	35.4	36.1	36.5	36.8	37.2	37.2	37.2	37.5	37.5	37.2
107.5°	31.6	32.6	33.3	34.0	34.4	34.4	34.7	34.7	34.7	34.7	34.7
110°	29.2	30.2	31.3	32.0	32.0	32.3	32.3	32.6	32.6	32.3	32.6

TEST NUMBER: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	26.7	28.1	28.8	29.5	29.9	30.2	30.2	30.2	30.2	30.2	30.2
115°	24.7	26.0	26.7	27.4	27.8	28.1	28.1	28.1	28.1	28.1	28.1
117.5°	22.9	24.3	25.0	25.4	25.7	26.0	26.4	26.4	26.4	26.4	26.0
120°	21.2	22.2	22.9	23.6	24.0	24.3	24.3	24.3	24.3	24.3	24.3
122.5°	19.5	20.5	21.2	21.9	22.2	22.6	22.6	22.6	22.6	22.6	22.6
125°	17.7	18.8	19.5	20.1	20.5	20.8	20.8	20.8	20.8	20.8	20.8
127.5°	16.0	17.0	18.1	18.4	18.8	19.1	19.1	19.1	19.5	19.1	19.1
130°	14.2	15.3	16.3	16.7	17.0	17.4	17.7	17.7	17.7	17.7	17.4
132.5°	12.9	13.9	14.6	14.9	15.6	15.6	16.0	16.0	16.0	16.0	15.6
135°	11.8	12.5	13.2	13.5	14.2	14.2	14.2	14.6	14.6	14.2	13.9
137.5°	10.4	11.1	11.8	12.2	12.5	12.9	12.9	13.2	12.9	12.9	12.9
140°	9.7	10.1	10.8	11.1	11.5	11.5	11.5	11.8	11.8	11.5	11.5
142.5°	8.3	9.0	9.7	10.1	10.4	10.4	10.4	10.4	10.4	10.4	10.4
145°	6.9	8.0	8.3	9.0	9.0	9.4	9.4	9.4	9.4	9.4	9.0
147.5°	5.9	6.6	7.6	8.0	8.0	8.3	8.3	8.3	8.3	8.3	8.0
150°	4.5	5.2	6.3	6.9	6.9	7.3	7.3	7.3	7.3	6.9	6.9
152.5°	3.8	4.5	4.9	5.6	5.9	5.9	5.9	6.3	5.9	5.9	5.9
155°	3.5	3.8	4.2	4.5	4.9	5.2	5.2	5.2	5.2	4.9	4.9
157.5°	2.8	3.1	3.5	3.8	4.2	4.5	4.5	4.5	4.5	4.5	4.2
160°	2.1	2.4	2.8	2.8	3.1	3.5	3.8	3.5	3.5	3.5	3.5
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: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	630.0	629.7	630.7	629.0	623.8	625.2	624.5	627.6	628.3	629.0	632.1
5°	630.0	629.7	630.4	629.0	623.4	624.5	623.8	626.9	627.6	628.0	631.1
7.5°	628.7	628.3	629.4	627.6	621.7	623.1	622.1	625.2	625.5	625.9	628.7
10°	625.9	625.5	626.2	624.8	618.9	620.3	618.9	622.1	622.1	622.8	624.8
12.5°	621.7	621.0	622.4	620.7	614.1	615.8	615.1	617.2	617.5	617.9	620.0
15°	615.8	615.1	616.2	615.1	609.2	609.6	608.5	611.6	612.0	611.3	613.4
17.5°	607.1	606.4	608.5	607.8	601.9	603.3	603.0	603.7	604.7	603.0	605.7
20°	596.4	597.1	597.7	598.1	593.6	593.6	593.2	594.6	595.7	594.3	596.4
22.5°	580.4	582.1	584.2	584.9	581.8	581.4	583.5	582.8	583.9	583.2	584.5
25°	560.2	563.7	565.8	567.9	566.1	566.8	570.0	570.7	570.7	570.3	571.7
27.5°	535.2	539.7	543.6	548.1	546.3	547.7	552.9	553.6	555.0	553.6	556.4
30°	505.4	509.5	516.8	523.4	524.1	526.2	533.5	534.2	538.0	536.6	537.7
32.5°	475.5	477.6	485.9	492.5	496.7	501.9	509.9	511.3	516.5	517.5	517.5
35°	438.0	443.9	451.5	460.9	466.1	471.7	482.4	484.5	492.2	494.6	497.4
37.5°	406.4	411.9	416.8	426.5	435.9	442.1	450.8	456.0	464.0	468.5	472.0
40°	372.7	377.2	382.4	392.1	400.1	409.5	418.2	424.4	434.5	439.7	444.2
42.5°	340.7	344.2	349.8	356.7	365.0	375.5	383.8	391.1	401.9	409.1	414.4
45°	312.2	314.3	319.2	324.4	331.7	342.5	350.5	359.8	368.5	376.2	382.4
47.5°	285.5	288.3	290.7	294.2	300.8	307.4	316.8	325.8	334.5	342.8	349.1
50°	260.8	260.8	264.7	267.1	271.6	277.5	284.8	291.1	301.8	307.7	315.7
52.5°	236.9	238.3	240.3	241.7	245.2	249.0	254.9	260.1	269.2	274.7	282.4
55°	215.7	217.1	218.1	218.8	220.9	225.4	227.5	231.7	237.9	242.4	249.0
57.5°	195.5	196.2	197.3	197.6	198.0	200.8	202.5	203.5	209.8	214.3	219.9
60°	177.1	177.1	178.2	177.8	177.5	178.9	178.5	179.6	183.4	186.2	188.6
62.5°	159.8	159.8	160.1	159.4	159.1	159.1	157.7	158.7	159.8	160.1	161.9
65°	143.8	145.5	144.1	144.5	142.4	141.7	141.0	138.9	138.6	137.2	137.9
67.5°	129.6	130.9	129.6	129.6	127.8	126.4	124.7	121.2	120.2	117.4	116.7
70°	118.1	117.0	117.7	116.7	114.6	112.9	110.4	107.7	104.2	100.7	98.3
72.5°	107.0	107.0	106.3	105.2	104.2	100.7	97.9	94.8	90.7	86.1	82.7
75°	96.2	96.6	96.6	95.5	93.8	90.7	87.5	83.0	78.5	73.3	68.8
77.5°	88.6	88.6	88.6	86.8	85.1	82.3	78.5	73.6	68.8	62.5	57.3
80°	81.3	80.9	80.9	78.8	77.1	74.0	70.2	65.3	60.1	53.5	47.6
82.5°	75.4	75.0	74.3	72.6	70.2	67.0	63.2	58.0	52.4	46.5	39.2
85°	69.1	68.8	68.1	66.3	63.9	61.1	57.0	51.8	46.2	39.6	32.6
87.5°	63.6	63.2	62.2	61.1	58.4	55.2	51.1	46.2	40.3	34.0	27.1
90°	59.7	59.0	58.4	57.0	54.5	51.1	46.9	41.7	35.8	29.5	22.6
92.5°	55.2	54.9	53.8	52.4	50.4	46.9	42.7	37.9	32.0	26.0	19.5
95°	50.7	50.4	49.7	48.3	46.2	43.1	39.2	34.4	28.8	22.9	17.0
97.5°	46.5	46.5	45.5	44.5	42.0	39.6	35.8	31.3	26.0	20.8	15.3
100°	43.1	43.1	42.0	40.6	38.9	36.5	32.6	28.5	23.6	18.8	13.2
102.5°	39.9	39.6	38.9	37.5	35.8	33.3	29.9	26.0	21.5	16.7	11.8
105°	37.2	36.8	36.1	34.7	33.3	30.6	27.8	24.0	19.5	14.9	10.4
107.5°	34.4	34.0	33.7	32.3	30.6	28.1	25.4	21.5	17.7	13.5	9.4
110°	32.0	31.6	30.9	29.5	27.8	25.7	22.9	19.8	16.0	12.2	8.3

TEST NUMBER: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	29.9	29.5	28.8	27.4	26.0	23.6	21.2	17.7	14.6	11.1	7.3
115°	27.8	27.4	26.7	25.4	23.6	21.5	19.1	16.3	12.9	9.7	6.6
117.5°	25.7	25.4	24.7	23.6	21.9	19.8	17.4	14.6	11.5	9.0	5.9
120°	24.0	23.3	22.6	21.5	19.8	18.1	15.6	13.2	10.4	8.0	5.2
122.5°	22.2	21.5	20.8	19.8	18.1	16.3	13.9	11.8	9.7	7.3	4.9
125°	20.1	19.8	19.1	18.1	16.3	14.6	12.9	10.8	8.7	6.6	4.2
127.5°	18.4	18.1	17.4	16.0	14.6	13.2	11.5	9.7	7.6	5.6	3.8
130°	17.0	16.3	15.6	14.6	13.5	12.2	10.4	8.7	6.9	4.9	3.5
132.5°	15.3	14.6	13.9	13.2	12.2	10.8	9.4	7.6	6.3	4.5	3.1
135°	13.9	13.2	12.5	11.8	10.8	9.7	8.3	6.9	5.6	4.2	2.8
137.5°	12.2	11.8	11.5	10.8	9.7	8.7	7.6	5.9	4.9	3.8	2.4
140°	11.1	10.8	10.4	9.4	8.7	7.6	6.6	5.2	4.2	3.1	2.1
142.5°	10.1	9.7	9.0	8.3	7.6	6.9	5.6	4.9	3.8	2.8	2.1
145°	8.7	8.3	8.0	7.3	6.6	5.6	4.9	4.2	3.5	2.4	1.7
147.5°	8.0	7.6	6.9	6.3	5.6	4.9	4.5	3.8	2.8	2.1	1.4
150°	6.6	6.3	5.9	5.2	4.9	4.5	3.8	3.1	2.4	1.7	1.4
152.5°	5.6	5.2	4.9	4.9	4.2	3.8	3.1	2.8	2.1	1.7	1.0
155°	4.9	4.9	4.5	4.2	3.5	3.1	2.8	2.1	1.7	1.4	1.0
157.5°	4.2	3.8	3.5	3.5	3.1	2.8	2.1	1.7	1.4	1.4	1.0
160°	3.5	3.1	3.1	2.8	2.4	2.1	1.7	1.7	1.4	1.0	1.0
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: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	632.5	628.7	632.1	636.6	636.6	636.0	635.3	636.6	640.1	638.7	634.6
5°	631.4	627.6	630.7	635.3	635.3	634.2	633.5	634.6	638.4	636.6	632.8
7.5°	629.4	625.9	628.0	632.1	632.1	631.1	630.4	631.8	634.9	633.2	629.0
10°	625.5	621.7	624.1	628.0	627.6	626.9	625.9	627.6	630.4	628.0	623.1
12.5°	620.7	616.8	618.9	622.4	622.1	620.7	620.0	621.0	623.4	622.1	616.8
15°	614.1	610.2	612.0	615.5	614.4	613.4	612.0	612.3	615.5	613.0	607.5
17.5°	606.1	601.9	603.3	606.4	605.4	604.3	602.6	603.0	606.4	603.0	597.1
20°	596.4	591.8	592.9	596.7	595.0	593.2	591.5	591.5	595.0	591.1	584.5
22.5°	585.9	581.4	582.1	584.9	583.5	580.4	578.6	579.7	581.4	576.6	569.6
25°	573.1	567.2	568.2	571.0	570.0	565.8	564.1	564.8	564.1	560.2	552.9
27.5°	558.2	551.9	552.6	554.3	552.9	549.1	547.0	547.4	546.0	541.1	532.8
30°	539.4	536.3	535.9	537.0	534.9	531.1	528.6	527.9	527.6	520.6	510.6
32.5°	520.3	517.5	515.8	517.2	514.7	510.9	506.7	506.7	503.3	496.7	488.0
35°	500.8	496.3	494.6	495.6	492.9	488.0	484.5	482.8	477.6	469.2	459.9
37.5°	475.8	472.7	470.6	471.7	468.5	465.1	458.5	456.7	451.2	439.7	427.9
40°	448.7	446.3	444.2	445.3	441.8	436.6	430.7	427.9	421.7	408.8	399.4
42.5°	419.6	418.5	416.1	419.9	413.0	407.8	401.9	397.3	391.1	377.2	366.4
45°	388.7	391.1	385.5	386.6	382.1	377.5	371.3	364.7	358.4	345.2	333.1
47.5°	356.0	357.7	353.9	354.6	349.8	345.6	340.0	331.7	324.7	313.3	302.5
50°	322.3	321.6	321.6	320.9	317.1	311.9	306.3	298.7	291.8	281.3	272.3
52.5°	286.5	287.9	288.6	290.4	285.5	282.4	273.7	267.1	261.9	251.1	243.5
55°	252.2	257.0	255.6	256.3	250.8	248.3	241.4	236.2	228.5	222.3	217.4
57.5°	220.9	221.9	222.6	223.7	221.2	216.4	210.8	206.7	200.8	195.5	192.1
60°	190.7	190.7	191.0	192.8	190.3	186.2	182.0	178.9	174.7	171.6	169.5
62.5°	162.2	164.6	165.0	163.6	160.5	158.4	155.6	153.9	151.1	150.0	149.3
65°	135.8	135.8	135.8	136.5	134.8	133.4	131.6	131.3	132.3	130.9	131.6
67.5°	113.6	112.5	111.8	112.2	111.5	110.8	110.4	111.5	113.6	113.6	115.3
70°	94.5	92.4	91.0	91.0	91.0	91.3	92.4	94.5	97.9	99.3	101.8
72.5°	78.8	74.3	72.2	72.2	72.6	74.0	77.1	80.9	84.1	86.8	90.0
75°	63.9	59.4	56.3	55.9	56.6	58.7	63.2	66.7	71.9	75.7	79.5
77.5°	51.8	46.2	42.4	42.0	43.1	46.2	51.8	56.3	62.2	66.3	70.5
80°	41.3	35.1	32.0	29.9	31.6	35.4	41.7	47.2	52.8	58.4	63.6
82.5°	33.0	27.1	22.2	20.1	22.2	27.4	33.3	39.9	45.5	51.4	56.6
85°	26.0	19.8	14.2	12.2	14.6	20.1	26.7	33.3	39.6	45.5	50.7
87.5°	20.5	14.2	8.7	5.9	9.0	14.9	21.2	27.8	34.4	40.3	45.5
90°	16.0	10.1	4.9	0.7	5.2	10.8	17.0	23.3	29.9	35.8	41.0
92.5°	13.5	7.6	2.8	0.0	3.1	8.0	13.9	20.1	26.0	32.0	37.2
95°	11.5	6.3	2.1	0.0	2.1	6.3	11.5	17.0	22.9	28.8	34.0
97.5°	9.7	4.9	1.4	0.0	1.4	4.9	9.4	14.9	20.1	25.7	30.6
100°	8.3	4.2	1.0	0.0	1.0	3.8	8.0	12.9	18.1	23.3	27.8
102.5°	7.3	3.5	0.7	0.0	0.7	3.1	6.6	11.1	15.6	20.5	25.0
105°	6.3	2.8	0.7	0.0	0.3	2.4	5.6	9.7	13.9	18.4	22.6
107.5°	5.6	2.4	0.7	0.0	0.3	2.1	4.9	8.3	12.5	16.3	20.1
110°	4.9	2.1	0.7	0.0	0.3	1.4	4.2	7.3	10.8	14.6	18.4

TEST NUMBER: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.2	1.7	0.3	0.0	0.0	1.0	3.5	6.3	9.4	13.2	16.3
115°	3.8	1.7	0.3	0.0	0.0	0.7	2.8	5.6	8.3	11.8	14.6
117.5°	3.5	1.4	0.3	0.0	0.3	0.7	2.4	4.9	7.3	10.1	13.2
120°	3.1	1.4	0.3	0.0	0.3	0.3	1.7	4.2	6.3	9.0	11.5
122.5°	2.8	1.4	0.3	0.0	0.3	0.3	1.4	3.5	5.6	8.0	10.1
125°	2.4	1.0	0.7	0.3	0.3	0.3	1.0	2.8	4.9	6.6	9.0
127.5°	2.4	1.0	0.7	0.3	0.3	0.3	0.7	2.4	3.8	5.9	8.0
130°	2.1	1.0	0.7	0.3	0.3	0.3	0.3	1.7	3.5	4.9	6.6
132.5°	1.7	1.0	0.7	0.3	0.3	0.3	0.3	1.0	2.4	4.2	5.6
135°	1.7	1.0	0.7	0.3	0.3	0.3	0.3	0.7	1.7	3.1	4.5
137.5°	1.4	0.7	0.7	0.3	0.3	0.3	0.3	0.3	1.4	2.4	3.5
140°	1.4	0.7	0.7	0.3	0.3	0.3	0.3	0.3	1.0	1.7	2.8
142.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.4	2.1
145°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.4
147.5°	1.0	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
150°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
152.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
155°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
157.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
160°	1.0	0.7	0.7	0.3	0.7	0.3	0.7	0.7	0.7	0.7	0.7
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: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	633.2	626.6	630.0	629.0	630.4	633.2	632.8	632.1	632.1	631.1	629.7
5°	631.1	624.8	628.0	626.2	628.0	630.4	630.0	629.0	629.7	628.0	626.2
7.5°	626.9	621.4	624.1	622.8	624.1	626.6	625.5	625.2	625.9	623.1	622.1
10°	622.1	615.8	618.9	617.2	618.9	620.7	620.0	618.6	620.0	617.2	616.2
12.5°	614.4	609.2	611.3	610.6	611.6	613.4	612.0	610.9	611.6	609.2	607.1
15°	606.1	600.9	602.6	601.6	602.3	604.3	601.9	601.6	600.9	598.4	597.7
17.5°	595.3	590.5	592.2	590.5	591.5	590.8	590.5	588.7	588.7	585.9	583.9
20°	582.1	577.9	576.9	575.5	576.9	575.5	573.4	572.0	571.7	568.9	567.2
22.5°	566.8	562.0	562.7	558.8	559.2	557.1	553.6	552.2	550.9	547.7	545.3
25°	548.4	543.6	540.1	537.7	534.5	534.2	529.7	526.2	525.8	522.0	521.7
27.5°	527.6	522.0	519.3	513.3	509.5	506.4	502.6	499.1	497.4	493.2	490.4
30°	503.6	497.4	490.4	486.3	480.4	477.9	471.3	467.2	465.8	461.2	459.2
32.5°	476.5	469.9	464.4	456.4	449.8	446.3	439.7	435.5	433.8	428.9	426.2
35°	447.0	439.7	433.1	425.5	420.3	414.4	406.4	402.2	398.4	396.6	394.6
37.5°	416.1	408.1	400.5	392.8	388.3	381.4	374.4	371.6	367.1	365.4	363.3
40°	384.1	376.2	368.9	361.6	356.4	350.1	343.9	342.8	337.9	336.2	334.8
42.5°	352.5	344.2	335.9	330.7	326.8	320.6	316.4	315.4	311.2	310.2	310.2
45°	324.1	313.6	306.7	302.2	299.0	293.8	290.4	289.7	286.2	285.5	285.5
47.5°	293.5	283.8	278.6	275.8	273.0	269.2	267.1	267.1	263.6	262.9	262.6
50°	265.0	256.0	252.2	249.4	249.0	246.3	244.5	243.8	243.8	241.4	241.7
52.5°	237.9	233.4	230.3	228.5	226.5	224.7	223.3	223.3	222.3	220.6	221.2
55°	212.9	207.7	208.0	206.7	205.6	204.6	204.9	202.8	202.5	201.1	202.1
57.5°	187.9	187.9	187.2	186.2	184.4	185.1	185.1	185.1	183.4	182.3	183.4
60°	166.7	167.8	166.0	167.1	166.4	166.7	166.0	166.0	165.0	164.6	165.0
62.5°	148.0	149.7	149.0	150.4	149.7	150.0	150.7	149.3	148.7	148.0	148.7
65°	131.3	133.4	133.0	134.1	134.4	134.8	135.1	134.4	133.7	133.0	132.7
67.5°	116.7	118.8	120.2	120.5	120.9	121.9	121.6	120.9	120.2	119.1	118.8
70°	103.5	106.3	108.0	108.7	110.1	109.4	109.4	109.1	108.4	107.3	107.0
72.5°	92.4	95.5	97.3	97.9	99.3	99.3	99.0	98.6	97.9	96.9	96.6
75°	82.7	85.4	87.9	89.3	90.3	90.3	90.0	89.6	88.9	88.2	87.9
77.5°	75.0	77.5	79.5	81.3	82.0	82.3	82.0	81.3	81.3	80.9	80.6
80°	67.4	70.2	72.2	74.0	75.0	75.0	74.7	75.0	74.3	74.0	73.6
82.5°	60.8	63.9	66.3	68.1	68.8	69.1	68.8	69.1	68.4	68.4	68.4
85°	54.9	58.0	60.8	62.2	63.2	63.6	63.6	63.6	63.2	63.2	63.2
87.5°	50.0	53.1	55.9	57.3	58.4	58.7	58.7	59.0	58.4	58.4	58.4
90°	45.5	48.6	51.4	52.8	53.8	54.5	54.5	54.9	54.5	54.2	54.2
92.5°	41.3	44.8	47.6	49.0	50.0	51.1	51.1	51.4	50.7	50.7	50.7
95°	37.9	41.3	43.8	45.5	46.5	47.2	47.6	47.6	47.2	47.2	47.2
97.5°	34.7	37.9	40.3	42.0	43.1	43.4	43.8	44.1	43.8	43.8	43.8
100°	31.6	34.7	37.2	38.6	39.9	40.3	40.6	41.0	41.0	40.6	40.6
102.5°	28.8	32.0	34.0	35.8	36.8	37.5	37.9	37.9	37.9	37.9	37.9
105°	26.0	29.2	31.3	33.0	34.0	34.7	35.1	35.4	35.4	35.1	35.1
107.5°	23.6	26.4	28.8	30.2	31.6	32.3	32.6	32.6	33.0	32.6	32.6
110°	21.2	24.3	26.4	27.8	29.2	29.9	30.2	30.6	30.6	30.6	30.6



TEST NUMBER: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	19.5	21.9	24.0	25.4	26.7	27.4	27.8	28.1	28.5	28.1	28.1
115°	17.4	19.8	21.9	23.3	24.3	25.0	25.7	26.0	26.0	26.4	26.0
117.5°	15.6	17.7	19.8	21.2	22.2	23.3	23.6	24.0	24.3	24.0	24.0
120°	13.9	16.0	17.7	19.1	20.1	21.2	21.5	21.9	22.2	21.9	21.9
122.5°	12.5	14.2	16.0	17.4	18.4	19.1	19.8	19.8	20.1	20.1	20.1
125°	11.1	12.9	14.2	15.6	16.7	17.4	17.7	18.1	18.1	18.4	18.4
127.5°	9.7	11.1	12.9	13.9	14.9	15.6	16.0	16.3	16.3	16.7	16.7
130°	8.3	9.7	11.1	12.2	13.2	13.9	14.2	14.6	14.9	14.9	14.9
132.5°	7.3	8.7	9.7	10.8	11.5	12.2	12.9	13.2	13.2	13.2	13.2
135°	5.9	7.3	8.3	9.4	10.1	10.8	11.1	11.8	11.8	11.8	11.8
137.5°	4.9	6.3	7.3	8.0	8.7	9.4	9.7	10.1	10.4	10.4	10.4
140°	3.8	4.9	5.9	6.9	7.6	8.0	8.7	8.7	9.0	9.0	9.0
142.5°	2.8	3.8	4.5	5.6	6.3	6.9	7.3	7.6	7.6	7.6	7.6
145°	2.1	2.8	3.5	4.2	5.2	5.6	5.9	6.3	6.6	6.6	6.6
147.5°	1.4	2.1	2.4	3.1	3.8	4.5	4.9	5.2	5.6	5.6	5.6
150°	1.0	1.4	2.1	2.4	2.8	3.5	4.2	4.2	4.5	4.5	4.2
152.5°	0.7	1.0	1.4	1.7	2.1	2.4	3.1	3.1	3.5	3.5	3.5
155°	0.7	0.7	0.7	1.0	1.4	1.7	2.1	2.4	2.4	2.4	2.4
157.5°	0.7	0.7	0.7	0.7	0.7	1.0	1.4	1.7	1.7	1.7	1.7
160°	0.7	0.7	0.3	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0
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: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	630.7	631.4	631.4	630.7	630.4	631.8	630.0	623.4	625.5	626.2	628.3
5°	627.6	628.3	628.3	628.3	627.6	629.0	627.3	620.7	623.1	624.1	625.5
7.5°	623.1	623.4	624.1	623.8	623.1	625.2	623.4	616.8	618.6	620.3	622.1
10°	617.2	617.2	617.5	618.2	617.5	619.3	617.5	611.6	613.4	614.4	616.5
12.5°	609.2	609.9	610.2	609.9	609.6	610.9	610.2	604.7	605.4	607.5	609.6
15°	598.4	598.4	600.2	599.5	599.5	600.9	601.6	595.3	596.4	599.5	601.6
17.5°	585.2	585.6	587.0	587.7	587.3	589.8	590.1	585.2	584.9	588.7	590.8
20°	568.2	568.9	570.7	572.0	572.0	574.8	575.9	572.7	573.1	577.3	577.9
22.5°	547.4	547.4	550.5	552.6	554.3	556.1	559.2	556.4	556.4	562.0	565.1
25°	521.7	524.1	525.2	529.3	531.8	536.6	539.4	539.7	540.1	545.3	547.4
27.5°	493.2	493.9	497.0	501.9	504.7	509.2	514.4	515.4	517.2	524.1	527.2
30°	460.9	463.0	464.4	471.3	475.1	481.0	487.6	490.1	491.5	500.8	504.7
32.5°	427.9	428.6	434.5	438.3	442.8	449.1	456.7	461.2	464.0	473.8	479.3
35°	394.9	396.3	401.2	406.0	410.5	416.8	424.8	431.0	435.9	444.6	451.9
37.5°	364.7	368.2	369.2	374.1	377.5	383.8	389.4	398.4	403.2	412.3	421.7
40°	337.6	338.6	339.3	344.2	346.6	352.5	360.5	366.4	373.0	379.6	390.7
42.5°	310.9	311.6	312.6	315.4	318.1	322.3	328.2	334.1	341.1	350.8	358.1
45°	286.2	286.9	287.6	289.3	291.8	295.6	299.4	303.6	310.5	318.8	326.5
47.5°	263.3	264.7	264.7	265.0	266.7	269.9	272.7	277.9	281.7	286.2	294.9
50°	241.4	242.4	242.8	242.8	243.8	245.9	246.6	250.1	253.5	257.7	264.0
52.5°	220.9	220.9	220.6	221.9	221.9	223.3	223.7	225.8	228.2	232.7	235.5
55°	201.4	201.4	202.5	201.8	201.8	202.5	202.1	202.5	204.6	207.4	209.8
57.5°	182.7	182.3	183.4	182.7	182.3	183.0	183.7	182.3	182.7	185.5	185.5
60°	163.9	164.3	165.3	164.6	164.6	164.6	163.9	163.2	162.5	164.3	165.0
62.5°	149.0	148.0	149.0	148.0	148.7	148.3	147.6	146.2	146.6	145.9	145.2
65°	133.4	133.4	133.7	132.7	133.4	133.4	132.3	132.0	129.9	129.2	127.5
67.5°	119.8	119.8	120.2	119.5	119.5	119.8	118.8	117.7	115.7	114.6	112.2
70°	108.0	108.0	108.0	107.7	107.7	107.7	107.0	105.6	103.5	101.8	98.6
72.5°	97.3	97.6	97.3	97.3	98.3	97.3	96.2	94.8	93.1	89.6	86.8
75°	88.6	88.9	88.6	88.6	88.6	88.2	87.9	85.8	83.7	80.9	76.8
77.5°	80.9	80.9	81.3	80.9	80.9	80.6	79.5	77.8	75.4	72.9	68.1
80°	73.6	74.0	74.3	74.7	74.0	73.6	72.6	71.2	68.1	65.3	60.4
82.5°	68.4	68.1	68.4	68.8	68.1	67.7	66.7	64.9	62.5	58.7	53.8
85°	63.2	62.9	62.9	63.2	62.9	62.2	61.1	59.4	57.0	53.1	48.3
87.5°	58.0	58.4	58.7	58.4	58.0	57.3	56.3	54.5	51.8	48.6	43.4
90°	54.2	54.2	54.2	54.2	53.8	53.1	52.1	50.0	47.6	43.8	39.2
92.5°	50.7	50.7	50.7	50.7	50.4	49.3	48.3	46.5	43.8	39.9	35.8
95°	47.2	47.6	47.2	47.2	46.5	46.2	44.5	42.7	40.3	36.5	32.0
97.5°	43.4	43.8	43.4	43.4	43.1	42.4	41.3	39.2	36.8	33.3	29.2
100°	40.6	40.6	40.3	40.3	39.9	39.2	37.9	36.1	33.7	30.2	26.0
102.5°	37.5	37.9	37.5	37.5	36.8	36.1	35.1	33.3	30.9	27.4	23.6
105°	35.1	35.1	34.7	34.7	34.0	33.3	32.3	30.2	28.1	25.0	21.2
107.5°	32.6	32.6	32.3	32.3	31.6	30.9	29.5	27.8	25.7	22.6	19.1
110°	30.2	30.2	30.2	29.9	29.2	28.1	27.1	25.4	23.3	20.5	17.0



TEST NUMBER: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	28.5	28.1	27.8	27.4	26.7	26.0	24.7	22.9	20.8	18.4	15.3
115°	26.0	26.0	25.7	25.4	24.7	23.6	22.6	21.2	19.1	16.3	13.5
117.5°	24.0	24.0	23.6	23.3	22.6	21.5	20.5	19.1	17.0	14.6	12.2
120°	21.9	21.9	21.5	21.2	20.5	19.5	18.8	17.0	15.3	12.9	10.8
122.5°	20.1	19.8	19.8	19.1	18.8	17.7	16.7	15.3	13.5	11.5	9.4
125°	18.1	18.1	17.7	17.4	17.0	16.0	14.9	13.5	11.8	10.1	8.3
127.5°	16.3	16.3	16.0	15.6	15.3	14.2	13.2	12.2	10.4	8.7	6.9
130°	14.6	14.6	14.2	13.9	13.5	12.5	11.8	10.4	9.0	7.6	5.9
132.5°	13.2	13.2	12.9	12.5	11.8	11.1	10.4	9.0	8.0	6.6	5.2
135°	11.8	11.5	11.5	11.1	10.4	9.7	9.0	8.0	6.6	5.6	4.2
137.5°	10.4	10.1	9.7	9.4	9.0	8.3	7.6	6.9	5.9	4.5	3.5
140°	9.0	8.7	8.7	8.3	7.6	7.3	6.6	5.6	4.9	3.8	2.8
142.5°	7.6	7.6	7.3	6.9	6.6	6.3	5.6	4.9	3.8	3.1	2.1
145°	6.6	6.3	6.3	5.9	5.6	4.9	4.5	3.8	3.1	2.4	1.7
147.5°	5.2	5.2	5.2	4.9	4.5	4.2	3.8	3.1	2.4	1.7	1.0
150°	4.2	4.2	4.2	3.8	3.5	3.1	2.8	2.4	1.7	1.0	0.7
152.5°	3.5	3.5	3.1	3.1	2.8	2.4	2.1	1.7	1.0	0.7	0.7
155°	2.4	2.4	2.4	2.1	2.1	1.7	1.4	1.0	0.7	0.7	0.7
157.5°	1.7	1.7	1.7	1.4	1.4	1.0	1.0	0.7	0.7	0.7	0.7
160°	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P1213317

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	627.3	626.9	629.7	629.7	626.6	631.4	636.6
5°	625.2	624.8	627.6	627.6	624.8	629.7	635.3
7.5°	621.0	621.4	624.1	624.8	621.4	625.9	631.8
10°	616.5	616.2	619.3	620.0	617.2	621.4	626.9
12.5°	609.2	609.2	612.3	613.4	610.6	615.5	620.7
15°	601.6	601.6	603.7	605.4	603.0	607.5	612.7
17.5°	591.8	591.5	593.6	595.7	593.2	598.1	603.7
20°	579.3	579.3	581.8	584.2	582.5	587.0	593.2
22.5°	566.1	564.8	568.9	570.7	569.6	574.1	580.4
25°	549.5	549.1	553.3	555.7	554.3	559.2	564.8
27.5°	531.4	531.1	535.2	538.4	537.7	542.2	548.4
30°	509.5	511.3	515.1	520.3	518.6	523.4	530.0
32.5°	486.6	488.3	492.9	498.4	498.8	502.6	509.2
35°	459.2	463.7	466.8	474.1	475.5	479.3	486.3
37.5°	430.3	435.5	442.1	447.7	450.5	453.6	461.6
40°	398.0	405.7	413.0	419.6	423.0	426.2	433.8
42.5°	368.9	374.8	381.7	388.3	394.6	397.3	405.3
45°	335.9	342.8	349.1	357.0	363.3	366.4	374.4
47.5°	303.6	310.5	318.8	324.4	331.0	334.1	341.8
50°	272.7	278.9	285.8	292.4	298.0	300.8	307.4
52.5°	242.1	248.7	255.3	259.5	265.4	267.4	273.0
55°	215.0	219.5	225.4	227.8	233.7	235.1	239.0
57.5°	188.9	192.1	194.2	198.3	202.5	205.6	210.1
60°	165.3	166.7	168.1	170.5	174.0	175.1	176.8
62.5°	144.1	143.8	146.6	147.3	147.6	151.1	149.3
65°	125.4	125.7	123.3	122.3	123.6	124.7	124.0
67.5°	109.8	107.7	105.6	103.2	101.1	102.1	101.1
70°	94.5	92.7	89.3	85.8	84.4	82.3	81.3
72.5°	82.3	78.1	74.7	70.2	67.7	65.3	63.6
75°	72.9	67.0	62.2	57.3	53.8	50.4	49.7
77.5°	63.2	57.7	52.1	46.9	41.7	37.9	36.5
80°	55.6	50.4	43.8	37.5	32.0	27.1	25.4
82.5°	48.6	43.1	36.5	29.9	23.6	18.4	16.3
85°	42.7	36.8	30.2	23.6	17.4	11.8	9.0
87.5°	38.2	31.6	25.0	18.8	12.2	6.6	3.5
90°	34.0	27.8	21.5	14.9	8.7	3.5	0.0
92.5°	30.2	24.3	18.1	12.2	6.6	2.1	0.3
95°	26.7	21.5	15.3	9.7	4.9	1.4	0.3
97.5°	24.0	18.8	13.2	8.0	3.8	1.0	0.3
100°	21.5	16.3	11.5	6.6	3.1	0.7	0.3
102.5°	19.1	14.6	9.7	5.6	2.4	0.3	0.3
105°	17.0	12.9	8.3	4.9	2.1	0.3	0.3
107.5°	15.3	11.5	7.3	4.2	1.4	0.3	0.3
110°	13.5	9.7	6.3	3.5	1.0	0.3	0.3



TEST NUMBER: P1213317

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	12.2	8.7	5.6	2.8	0.7	0.3	0.3
115°	10.8	7.6	4.9	2.4	0.7	0.3	0.3
117.5°	9.4	6.6	4.2	1.7	0.3	0.3	0.3
120°	8.3	5.9	3.5	1.4	0.3	0.3	0.3
122.5°	7.3	4.9	2.8	1.0	0.3	0.3	0.3
125°	6.3	4.2	2.4	0.7	0.3	0.3	0.3
127.5°	5.2	3.5	1.7	0.7	0.3	0.3	0.3
130°	4.5	2.8	1.4	0.3	0.3	0.3	0.3
132.5°	3.8	2.1	1.0	0.3	0.3	0.3	0.3
135°	3.1	1.7	0.7	0.3	0.3	0.3	0.3
137.5°	2.4	1.4	0.7	0.3	0.3	0.3	0.3
140°	1.7	1.0	0.3	0.3	0.3	0.3	0.3
142.5°	1.4	0.7	0.3	0.3	0.3	0.3	0.3
145°	1.0	0.7	0.3	0.3	0.3	0.3	0.3
147.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3
150°	0.7	0.7	0.3	0.3	0.7	0.3	0.3
152.5°	0.7	0.3	0.3	0.3	0.7	0.3	0.3
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.3
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)