

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: P1212965

Luminaire Tested: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212965
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

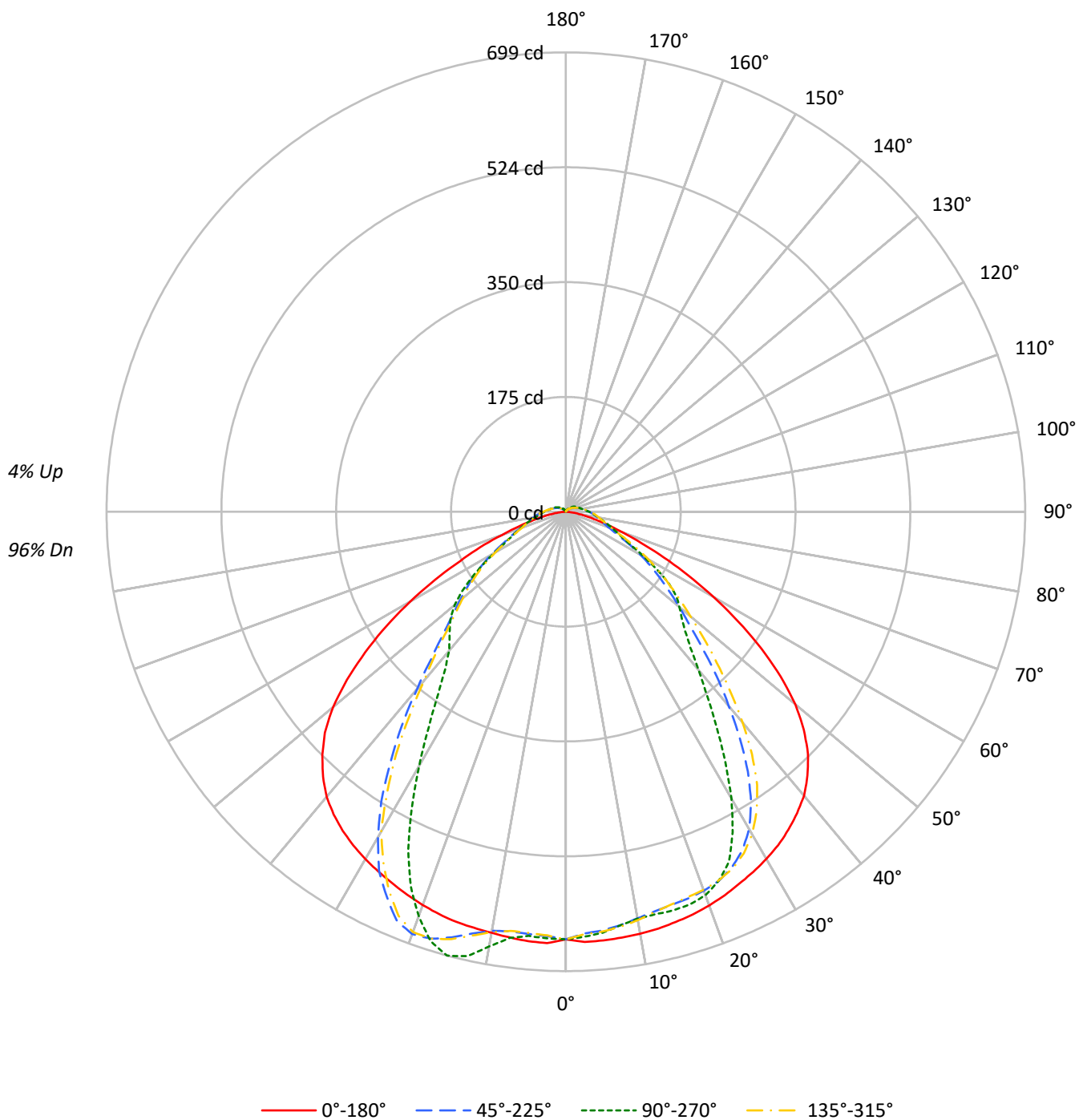
Lumens per Lamp: N/A
Luminaire Lumens: 1551.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	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	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10515	10515	10515	10515
5°	10562	10099	10585	10177
10°	10582	9679	10561	10335
15°	10634	9549	10629	10631
20°	10721	9397	10709	9905
25°	10819	8915	10814	8614
30°	10986	7726	10993	6845
35°	11162	6248	11192	5287
40°	11304	5030	11352	4431
45°	11212	4261	11270	4150
50°	10671	3923	10820	3836
55°	9406	3526	9641	3205
60°	7566	2699	7968	2476
65°	5564	2066	5996	1958
70°	3726	1782	4202	1705
75°	2380	1607	2775	1522
80°	1477	1499	1732	1380
85°	692	1497	909	1367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	4.0
10°-20°	183.9	11.9
20°-30°	279.5	18.0
30°-40°	299.9	19.3
40°-50°	260.3	16.8
50°-60°	192.9	12.4
60°-70°	110.5	7.1
70°-80°	61.2	3.9
80°-90°	37.3	2.4
90°-100°	24.2	1.6
100°-110°	16.2	1.0
110°-120°	11.0	0.7
120°-130°	6.7	0.4
130°-140°	3.5	0.2
140°-150°	1.6	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	525.2	33.9
0°-40°	825.1	53.2
0°-60°	1278.2	82.4
0°-90°	1487.2	95.9
90°-120°	51.4	3.3
90°-150°	63.3	4.1
90°-180°	64.0	4.1
0°-180°	1551.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	651	651	651	651	651	
5°	655	643	656	648	655	62
15°	646	628	646	699	646	183
25°	624	587	624	568	624	289
35°	590	400	592	338	590	370
45°	521	256	524	250	521	399
55°	364	192	373	175	364	322
65°	165	98	178	92	165	166
75°	47	62	55	58	47	54
85°	6	43	8	39	6	8
90°	0	36	1	33	0	0
95°	0	29	0	28	0	0
105°	0	22	0	21	0	0
115°	0	18	0	16	0	0
125°	0	13	0	11	0	0
135°	0	8	0	7	0	0
145°	0	5	1	4	0	0
155°	1	2	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°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	655.3	653.6	653.0	651.6	652.6	656.7	654.0	649.6	649.9	642.2	646.2
5°	654.6	652.6	651.6	650.3	650.9	654.6	651.9	647.6	647.2	639.5	643.2
7.5°	653.6	651.6	649.9	648.9	649.3	652.3	648.9	643.9	642.9	634.5	637.8
10°	651.9	650.6	648.3	646.6	646.2	649.6	644.2	639.2	636.8	628.1	631.4
12.5°	649.6	647.6	645.2	642.2	641.9	643.9	639.5	632.5	630.1	623.0	626.7
15°	646.2	643.9	641.2	637.8	636.2	637.5	632.1	625.7	625.4	619.4	624.4
17.5°	642.5	639.2	636.2	631.4	629.1	630.1	625.7	620.0	620.7	617.0	622.7
20°	637.5	633.8	629.1	624.4	621.0	622.7	619.7	615.3	616.3	613.6	618.7
22.5°	631.8	626.7	621.0	615.7	613.0	615.3	613.0	609.3	609.6	607.9	611.0
25°	624.4	618.7	612.0	605.2	603.9	605.6	604.2	601.2	599.9	597.2	598.5
27.5°	617.7	611.3	602.9	595.8	593.5	596.8	593.8	588.8	585.1	581.4	578.7
30°	609.9	602.2	592.8	584.7	582.7	584.1	579.7	572.0	562.2	557.5	550.1
32.5°	601.5	591.5	579.7	570.6	569.3	568.3	560.2	549.1	534.0	524.6	513.2
35°	590.5	579.4	565.2	554.2	552.1	546.4	533.3	518.5	499.0	482.9	463.4
37.5°	578.0	564.9	550.1	535.3	529.6	518.2	499.7	484.3	454.7	435.2	411.7
40°	563.9	548.1	530.0	512.1	502.7	484.3	463.1	440.2	411.7	385.5	365.6
42.5°	544.4	527.6	506.1	486.3	470.1	445.6	420.7	388.5	362.3	340.1	319.9
45°	521.2	501.1	476.2	452.3	431.8	402.6	373.4	341.1	319.3	293.4	279.6
47.5°	491.3	469.5	442.9	416.4	389.5	357.2	326.6	295.7	273.9	255.4	245.3
50°	456.0	435.9	406.6	375.0	345.5	311.9	281.3	258.1	236.9	225.5	217.8
52.5°	412.3	393.5	363.6	329.3	300.8	267.8	239.9	221.1	206.0	197.6	194.9
55°	363.6	347.1	317.6	285.6	256.4	226.2	205.0	188.5	178.8	173.7	174.1
57.5°	311.5	298.8	270.9	242.3	214.7	191.9	172.7	159.6	152.2	151.9	152.9
60°	259.4	250.0	225.8	201.3	177.1	158.6	144.5	135.4	130.7	131.1	130.7
62.5°	209.7	201.0	183.5	163.3	144.2	131.7	119.0	115.3	111.2	110.9	110.9
65°	165.0	158.3	144.2	129.7	115.3	107.2	100.8	96.4	93.4	92.8	93.1
67.5°	124.0	121.3	111.6	101.8	92.8	87.7	82.3	81.3	79.0	79.0	79.6
70°	92.4	90.4	85.0	79.3	75.6	72.3	69.6	69.6	69.2	68.9	70.6
72.5°	66.9	67.2	65.5	61.2	60.8	60.2	59.5	60.5	60.8	61.8	63.9
75°	47.0	48.1	48.1	47.4	48.7	50.4	51.4	53.1	55.1	56.5	58.8
77.5°	33.3	33.3	34.9	37.0	39.7	42.7	45.4	47.7	50.4	52.1	54.1
80°	21.5	22.5	25.2	28.9	32.6	36.6	40.3	43.4	46.0	48.7	50.1
82.5°	12.8	14.5	17.8	22.5	27.2	32.3	36.0	39.7	42.7	45.4	46.4
85°	6.4	8.7	12.8	17.8	22.9	28.2	32.9	36.3	39.7	42.0	43.4
87.5°	2.0	4.7	9.1	13.8	19.2	24.5	29.6	33.3	36.3	38.3	39.7
90°	0.0	2.4	6.4	11.4	16.5	21.8	26.5	30.6	33.6	35.3	36.3
92.5°	0.0	1.3	5.0	9.4	14.1	19.5	24.2	27.9	30.6	32.3	32.9
95°	0.3	1.0	3.7	7.7	12.4	17.5	21.8	25.2	27.9	29.6	29.9
97.5°	0.3	0.7	3.0	6.4	10.8	15.5	19.8	23.2	25.2	26.9	27.2
100°	0.3	0.7	2.4	5.7	9.4	13.8	17.8	20.8	23.2	24.5	24.9
102.5°	0.3	0.3	2.0	4.7	8.4	12.1	15.8	18.8	20.8	22.2	22.9
105°	0.3	0.3	1.7	4.0	7.4	10.8	14.1	17.1	18.8	20.2	20.8
107.5°	0.3	0.3	1.3	3.4	6.4	9.4	12.8	15.1	17.1	18.5	19.2
110°	0.3	0.3	1.0	3.0	5.4	8.4	11.1	13.4	15.5	16.8	17.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.3	0.3	1.0	2.7	4.7	7.4	9.7	12.1	13.8	15.1	16.1
115°	0.3	0.3	1.0	2.4	4.4	6.4	8.7	10.8	12.4	13.8	14.8
117.5°	0.3	0.3	1.0	2.0	3.7	5.7	7.7	9.7	11.1	12.4	13.4
120°	0.3	0.3	0.7	1.7	3.4	5.0	6.7	8.4	10.1	11.4	12.4
122.5°	0.3	0.3	0.7	1.7	2.7	4.4	6.0	7.4	9.1	10.1	11.1
125°	0.3	0.3	0.7	1.3	2.4	4.0	5.4	6.7	7.7	9.1	10.1
127.5°	0.3	0.3	0.7	1.3	2.0	3.4	4.7	6.0	7.1	8.1	8.7
130°	0.3	0.3	0.7	1.0	1.7	2.7	4.0	5.0	6.4	7.1	7.7
132.5°	0.3	0.3	0.3	1.0	1.3	2.0	3.0	4.4	5.4	6.4	6.7
135°	0.3	0.3	0.3	0.7	1.3	1.7	2.4	3.4	4.4	5.4	6.0
137.5°	0.3	0.3	0.3	0.7	1.0	1.7	2.0	2.7	3.7	4.4	5.4
140°	0.3	0.3	0.3	0.7	1.0	1.3	1.7	2.4	3.0	3.7	4.4
142.5°	0.3	0.3	0.3	0.7	0.7	1.0	1.3	2.0	2.4	3.0	3.7
145°	0.3	0.3	0.3	0.7	0.7	1.0	1.3	1.7	2.0	2.4	3.0
147.5°	0.3	0.3	0.3	0.7	0.7	0.7	1.0	1.3	1.7	2.0	2.4
150°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.3	1.7	2.0
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.3	1.3
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°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	644.9	645.6	649.6	649.3	648.6	647.9	647.9	647.2	647.9	649.6	648.9
5°	641.5	642.5	645.6	645.2	644.6	644.2	643.9	642.9	643.5	645.9	645.2
7.5°	635.5	636.5	639.2	637.8	636.8	637.5	635.8	634.8	636.2	638.5	638.2
10°	629.1	629.8	633.1	632.5	630.8	631.1	629.4	628.8	630.4	631.8	632.1
12.5°	624.7	627.1	630.1	629.8	629.4	629.8	628.1	627.4	628.4	629.8	629.4
15°	623.7	626.7	630.1	630.1	630.4	630.8	629.1	628.1	629.1	630.1	629.8
17.5°	622.7	626.4	629.4	629.1	629.4	630.1	627.4	626.7	628.1	629.4	628.8
20°	619.4	622.7	624.7	624.1	624.1	624.4	621.0	621.0	623.0	624.1	624.4
22.5°	609.9	614.0	614.0	612.3	612.3	611.0	609.9	607.9	610.3	612.0	613.3
25°	595.8	597.5	595.5	591.8	589.8	588.1	583.4	587.4	587.4	592.5	594.1
27.5°	576.0	572.3	566.6	558.9	557.2	551.8	548.8	549.8	551.5	558.5	563.9
30°	543.4	532.3	522.6	519.2	511.8	506.4	501.1	503.7	506.8	510.8	521.9
32.5°	500.4	489.6	473.8	468.1	460.4	453.7	447.3	451.3	456.7	459.4	471.5
35°	451.0	438.2	423.8	414.0	406.0	402.3	394.2	399.9	405.6	407.6	418.1
37.5°	398.6	385.5	372.7	364.3	356.6	354.2	348.8	352.9	357.2	360.3	369.0
40°	348.8	336.7	327.0	321.3	315.9	313.9	311.9	313.5	316.9	319.3	326.0
42.5°	306.1	296.4	289.7	286.3	282.6	279.9	280.3	280.9	282.6	287.7	290.7
45°	268.8	263.1	258.8	258.1	255.7	255.4	255.1	256.4	257.4	260.4	262.8
47.5°	238.9	236.6	235.6	236.9	237.9	236.6	237.3	238.9	241.0	241.0	240.6
50°	215.4	216.1	217.4	220.5	222.5	223.1	223.8	225.8	226.2	226.8	225.8
52.5°	196.3	196.9	200.6	205.3	207.7	208.7	210.0	212.1	212.1	212.7	211.4
55°	176.8	177.8	181.5	186.2	188.2	189.5	190.9	192.2	193.2	194.6	193.6
57.5°	155.3	158.3	160.6	162.0	163.3	164.3	165.3	165.7	167.7	168.0	169.7
60°	132.4	133.1	135.4	135.1	134.1	136.8	135.4	137.8	140.1	143.2	143.5
62.5°	110.6	110.9	112.6	111.9	113.3	112.9	113.9	113.9	115.6	116.9	118.6
65°	93.4	93.8	95.1	95.1	94.8	95.8	96.8	97.5	97.5	98.5	99.8
67.5°	80.7	81.7	83.0	83.7	84.4	84.4	85.4	85.7	86.4	86.7	87.4
70°	71.9	73.3	74.6	75.3	75.6	76.3	76.6	76.6	77.3	77.6	78.3
72.5°	65.5	66.9	67.9	67.9	68.6	68.9	68.9	69.2	69.6	70.2	70.9
75°	60.2	61.2	61.8	61.5	61.5	61.5	61.8	61.8	62.5	63.2	63.9
77.5°	55.1	56.1	56.1	55.4	55.4	55.4	55.4	55.8	56.1	56.8	57.5
80°	51.4	51.4	51.1	51.1	50.4	50.1	50.1	50.4	50.4	51.1	52.1
82.5°	47.4	47.4	47.0	46.7	46.4	46.0	46.0	46.4	46.7	47.0	47.7
85°	43.7	43.7	43.0	43.0	42.7	42.7	42.7	42.7	43.0	43.4	44.0
87.5°	40.0	39.7	39.3	39.0	39.0	39.0	39.0	39.0	39.3	40.0	40.3
90°	36.3	36.0	35.6	35.6	35.3	35.3	35.6	35.6	36.0	36.3	36.6
92.5°	32.9	32.6	32.3	32.3	31.9	31.9	32.3	31.9	32.6	32.6	32.9
95°	29.9	29.6	29.2	29.2	29.2	29.2	29.2	29.2	29.6	29.6	29.9
97.5°	27.2	26.9	26.5	26.5	26.9	26.5	26.9	26.9	26.9	27.2	27.6
100°	24.9	24.5	24.5	24.9	24.5	24.5	24.9	24.9	24.9	24.9	25.2
102.5°	22.9	22.9	22.9	22.9	22.9	22.9	23.2	23.2	23.2	23.2	23.5
105°	20.8	21.2	21.2	21.2	21.5	21.5	21.5	21.8	21.8	21.8	21.8
107.5°	19.5	19.8	19.8	20.2	20.2	20.5	20.5	20.5	20.5	20.8	20.8
110°	18.1	18.5	18.8	19.2	19.2	19.5	19.5	19.5	19.5	19.5	19.5

TEST NUMBER: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	16.8	17.1	17.5	18.1	18.5	18.5	18.5	18.5	18.8	18.8	18.5
115°	15.5	16.1	16.5	17.1	17.5	17.5	17.8	17.8	17.8	17.8	17.5
117.5°	14.1	15.1	15.5	16.1	16.5	16.5	16.8	16.8	16.8	16.8	16.5
120°	13.1	13.8	14.5	14.8	15.1	15.5	15.5	15.8	15.8	15.8	15.5
122.5°	12.1	12.8	13.4	13.8	14.1	14.5	14.5	14.5	14.5	14.5	14.5
125°	10.8	11.4	12.1	12.4	12.8	13.1	13.1	13.4	13.4	13.4	13.1
127.5°	9.7	10.4	10.8	11.4	11.8	11.8	12.1	12.1	12.1	12.1	11.8
130°	8.4	9.1	9.7	10.1	10.4	10.4	10.8	10.8	10.8	10.8	10.8
132.5°	7.4	8.1	8.4	9.1	9.1	9.4	9.4	9.7	9.7	9.7	9.4
135°	6.7	7.1	7.4	8.1	8.1	8.4	8.4	8.4	8.4	8.4	8.4
137.5°	6.0	6.4	6.7	7.1	7.1	7.4	7.4	7.4	7.4	7.7	7.4
140°	5.0	5.7	6.0	6.0	6.4	6.4	6.4	6.7	6.7	6.7	6.4
142.5°	4.4	4.7	5.0	5.4	5.7	5.7	5.7	5.7	6.0	5.7	5.7
145°	3.4	4.0	4.4	4.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0
147.5°	2.7	3.0	3.7	4.0	4.0	4.4	4.4	4.4	4.4	4.4	4.4
150°	2.4	2.4	3.0	3.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7
152.5°	1.7	2.0	2.4	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0
155°	1.7	1.7	2.0	2.0	2.4	2.4	2.4	2.4	2.7	2.4	2.4
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: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	647.9	647.6	648.9	647.6	640.9	643.5	642.5	646.2	646.6	647.6	650.9
5°	644.6	644.6	646.2	644.9	638.5	641.2	640.9	644.6	645.2	645.9	649.6
7.5°	637.8	638.2	640.5	639.5	632.8	636.8	636.5	640.9	642.2	643.5	646.9
10°	631.4	631.1	633.8	632.8	626.4	631.1	630.8	635.1	637.2	639.5	643.5
12.5°	628.1	627.1	628.1	627.1	620.0	623.7	624.1	629.1	631.4	634.5	639.2
15°	628.1	626.4	626.4	624.4	616.3	618.7	619.0	622.4	625.4	628.4	634.1
17.5°	627.4	625.7	625.4	623.7	615.0	615.0	614.6	617.0	618.7	621.7	627.8
20°	623.7	623.0	622.7	621.7	613.6	612.3	611.6	611.6	612.6	613.6	619.7
22.5°	614.0	614.6	615.3	616.0	609.6	607.3	607.6	606.9	605.9	605.9	611.0
25°	595.8	599.2	601.9	604.9	601.2	599.5	601.5	600.5	598.9	597.5	601.9
27.5°	566.9	574.0	579.7	587.1	587.4	586.1	591.5	590.8	590.5	588.4	591.8
30°	526.9	538.0	545.8	556.5	565.6	566.9	576.0	577.3	578.7	577.7	581.0
32.5°	478.5	493.7	506.8	523.6	532.3	540.0	552.8	558.2	563.6	565.2	568.9
35°	425.8	442.9	458.4	476.9	490.6	507.4	522.9	531.0	543.1	547.8	553.1
37.5°	375.7	391.8	407.0	425.4	447.6	465.1	484.3	502.4	518.9	525.6	533.7
40°	331.4	344.5	358.9	375.0	395.2	418.1	438.9	464.1	483.6	497.0	508.8
42.5°	297.7	304.1	316.6	331.0	347.1	370.3	391.5	419.7	443.3	462.4	481.9
45°	267.8	270.9	279.9	287.7	304.1	324.6	347.1	374.7	399.2	423.8	447.3
47.5°	242.3	246.0	250.4	255.1	266.8	284.0	303.5	328.3	352.9	381.4	408.3
50°	225.2	226.2	226.8	228.9	235.9	247.7	263.5	284.6	308.2	338.7	367.3
52.5°	210.0	210.0	208.0	207.0	209.7	217.1	226.2	241.3	265.5	293.7	324.0
55°	193.9	190.9	190.2	186.8	187.5	190.9	195.2	207.0	226.8	251.0	280.3
57.5°	171.4	170.0	170.0	168.7	166.0	167.7	168.7	177.1	191.2	212.1	237.6
60°	145.5	144.8	146.5	146.9	144.5	145.5	145.2	150.2	160.3	177.1	198.3
62.5°	119.6	122.7	123.0	124.3	123.0	122.7	124.3	128.7	133.8	146.5	163.0
65°	100.5	102.2	102.5	104.2	103.5	103.5	104.8	108.2	111.2	120.0	132.7
67.5°	88.0	87.4	87.7	88.7	87.7	87.4	88.4	90.4	92.8	98.1	107.2
70°	78.3	77.6	77.6	77.6	76.3	75.3	75.6	76.3	77.3	80.3	86.0
72.5°	70.9	70.9	69.9	68.9	67.9	67.2	66.5	65.9	65.5	66.5	69.6
75°	64.2	64.5	64.2	63.2	61.8	60.5	59.1	57.8	56.1	55.4	55.8
77.5°	58.1	58.5	58.8	58.5	57.1	55.4	53.4	51.4	49.1	46.7	45.4
80°	52.8	53.4	53.8	53.4	52.4	51.1	48.7	46.4	43.0	40.0	36.6
82.5°	48.1	49.1	49.4	49.4	48.7	47.4	44.7	42.0	38.3	34.3	29.9
85°	44.4	45.0	45.7	45.7	45.4	44.0	41.3	38.3	34.6	29.9	25.2
87.5°	40.7	41.0	41.7	42.3	41.7	40.3	38.0	34.6	30.9	26.2	20.8
90°	37.0	37.3	38.0	38.6	38.3	37.0	34.9	31.9	27.9	22.9	17.5
92.5°	33.3	33.9	34.3	34.6	34.9	33.9	32.3	29.2	25.2	20.2	15.1
95°	30.6	30.6	31.3	31.6	31.9	30.9	29.6	26.5	22.9	18.1	13.1
97.5°	27.9	27.9	28.6	28.6	28.9	28.2	26.9	24.2	20.5	16.1	11.1
100°	25.2	25.5	25.9	26.2	26.2	25.9	24.5	21.8	18.5	14.5	9.7
102.5°	23.5	23.5	23.9	23.9	24.2	23.5	22.2	19.8	16.5	12.8	8.4
105°	21.8	21.8	22.2	22.2	21.8	21.2	19.8	17.8	14.8	11.1	7.4
107.5°	20.5	20.5	20.5	20.5	20.2	19.5	18.1	15.8	13.1	10.1	6.7
110°	19.5	19.2	19.2	18.8	18.5	17.5	16.1	14.1	11.8	8.7	5.7

TEST NUMBER: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	18.5	18.1	17.8	17.5	16.8	15.8	14.5	12.8	10.4	7.7	5.0
115°	17.5	17.1	16.8	16.1	15.5	14.5	13.1	11.4	9.1	6.7	4.4
117.5°	16.5	16.1	15.5	14.8	14.1	13.1	11.8	10.1	8.1	6.0	4.0
120°	15.1	14.8	14.5	13.8	13.1	11.8	10.4	9.1	7.1	5.4	3.4
122.5°	14.1	13.8	13.1	12.8	11.8	10.8	9.4	8.1	6.4	4.7	3.0
125°	12.8	12.4	12.1	11.4	10.8	9.4	8.4	7.1	5.7	4.0	2.4
127.5°	11.8	11.4	10.8	10.1	9.4	8.4	7.4	6.4	5.0	3.4	2.4
130°	10.4	10.1	9.7	9.1	8.4	7.4	6.7	5.4	4.4	3.0	2.0
132.5°	9.1	9.1	8.7	8.1	7.4	6.7	5.7	4.7	3.7	2.7	1.7
135°	8.4	8.1	7.7	7.1	6.7	5.7	5.0	4.0	3.0	2.4	1.3
137.5°	7.4	7.1	6.7	6.4	5.7	5.0	4.4	3.4	2.7	2.0	1.3
140°	6.4	6.0	6.0	5.4	5.0	4.4	3.7	3.0	2.4	1.7	1.0
142.5°	5.7	5.4	5.0	4.7	4.4	3.7	3.0	2.4	2.0	1.3	1.0
145°	5.0	4.7	4.4	4.0	3.7	3.0	2.7	2.0	1.7	1.3	1.0
147.5°	4.0	4.0	3.7	3.4	3.0	2.7	2.4	2.0	1.3	1.0	0.7
150°	3.4	3.4	3.0	2.7	2.7	2.4	2.0	1.7	1.3	1.0	0.7
152.5°	3.0	2.7	2.7	2.4	2.4	2.0	1.7	1.3	1.0	1.0	0.7
155°	2.4	2.4	2.4	2.0	2.0	1.7	1.3	1.3	1.0	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: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	651.6	647.6	650.9	657.0	656.3	655.6	655.0	656.3	660.7	658.3	654.6
5°	650.6	646.6	650.3	656.0	655.6	654.6	654.0	655.3	659.7	657.3	653.3
7.5°	648.6	644.9	647.6	653.3	653.3	652.6	651.9	653.3	657.3	655.3	651.3
10°	645.2	642.5	645.2	650.6	650.9	649.6	648.9	650.6	654.6	653.6	650.3
12.5°	642.5	639.9	642.9	648.3	648.6	647.2	646.2	648.3	653.6	654.3	653.3
15°	638.8	636.5	640.2	645.9	645.9	644.9	644.9	647.6	655.0	658.0	659.7
17.5°	633.5	631.8	636.2	641.9	642.2	641.5	641.9	647.2	657.0	664.4	669.1
20°	626.7	626.1	630.8	636.8	637.8	638.2	639.9	647.9	661.4	671.4	676.1
22.5°	618.7	619.0	624.4	630.8	632.1	633.1	636.5	647.9	664.7	675.5	677.5
25°	609.6	610.6	616.3	624.1	625.7	627.8	633.5	648.3	665.7	672.8	669.4
27.5°	599.9	601.9	609.3	617.3	619.4	622.7	630.1	646.2	661.0	661.4	648.9
30°	589.8	592.1	600.9	610.3	613.6	617.0	626.1	641.5	649.6	638.8	617.0
32.5°	578.4	581.7	590.5	601.9	605.9	610.3	619.4	632.5	629.4	606.2	575.0
35°	563.9	568.6	578.7	592.1	595.8	601.5	607.9	611.0	597.5	564.6	529.3
37.5°	546.1	553.1	564.9	580.4	584.4	588.1	589.8	581.4	554.5	518.9	482.2
40°	525.6	536.3	549.1	566.3	570.3	570.3	564.2	546.4	512.5	465.8	425.1
42.5°	500.7	513.8	530.0	547.1	551.1	546.4	532.0	500.7	462.1	410.0	367.0
45°	470.5	488.0	506.1	523.9	525.9	515.5	489.6	450.0	402.3	353.9	312.9
47.5°	434.5	457.4	477.2	497.4	494.7	477.2	442.6	397.6	347.1	301.4	268.5
50°	394.2	421.1	443.3	462.4	456.7	432.5	391.8	344.8	294.7	255.7	228.5
52.5°	351.2	382.1	404.3	419.7	412.0	383.1	338.4	293.4	252.4	216.8	198.6
55°	306.5	337.7	360.6	372.7	362.6	331.4	287.3	246.3	207.7	184.5	173.7
57.5°	263.1	292.4	313.9	323.6	310.9	279.6	238.9	204.3	176.4	156.9	151.6
60°	221.5	245.3	265.8	273.2	259.4	230.5	195.6	168.0	147.5	134.1	131.4
62.5°	182.8	202.3	218.4	224.1	210.7	188.2	157.9	137.4	123.0	116.3	112.9
65°	150.9	162.3	178.8	177.8	169.7	148.9	126.7	112.2	102.8	98.5	96.4
67.5°	118.6	129.0	139.5	140.8	130.7	116.3	101.8	91.4	86.4	84.0	83.0
70°	91.7	99.5	105.9	104.2	98.8	89.7	80.7	74.9	72.9	71.9	71.9
72.5°	71.2	75.3	78.3	76.3	72.9	68.2	63.9	61.5	61.8	62.5	63.2
75°	55.1	56.1	56.8	54.8	54.1	51.1	50.7	51.1	53.1	55.1	56.1
77.5°	42.3	41.0	40.0	38.0	38.3	38.0	39.7	42.3	45.4	48.4	51.1
80°	32.6	29.6	27.2	25.2	26.2	27.9	31.3	35.3	39.3	42.7	46.0
82.5°	25.2	20.8	17.5	15.5	17.5	20.2	24.5	29.6	34.3	38.0	41.7
85°	19.5	14.5	10.4	8.4	10.4	14.5	19.2	24.9	29.9	33.9	37.6
87.5°	15.1	10.4	5.7	3.4	5.7	10.1	15.5	20.8	25.9	30.6	34.3
90°	12.1	7.1	2.7	0.7	3.0	7.1	12.1	17.5	22.5	27.6	31.3
92.5°	9.7	5.0	1.3	0.0	1.7	5.4	10.1	15.1	20.2	24.9	28.6
95°	8.1	4.0	1.0	0.0	1.3	4.0	8.1	13.1	17.8	22.5	25.5
97.5°	6.7	3.0	0.7	0.0	0.7	3.4	6.7	11.1	15.8	20.2	23.2
100°	5.7	2.7	0.7	0.0	0.7	2.7	5.7	9.7	13.8	17.8	20.8
102.5°	4.7	2.0	0.3	0.3	0.3	2.0	5.0	8.4	12.1	15.8	18.8
105°	4.4	1.7	0.3	0.3	0.3	1.7	4.4	7.4	10.8	14.1	16.8
107.5°	3.7	1.3	0.3	0.3	0.3	1.3	3.7	6.4	9.7	12.8	15.1
110°	3.0	1.3	0.3	0.3	0.3	1.3	3.0	5.7	8.4	11.1	13.4

TEST NUMBER: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	2.7	1.0	0.3	0.3	0.3	1.0	2.7	5.0	7.4	10.1	12.1
115°	2.4	1.0	0.3	0.3	0.3	1.0	2.4	4.4	6.4	8.7	10.8
117.5°	2.0	1.0	0.3	0.3	0.3	0.7	2.0	3.7	5.7	7.7	9.7
120°	1.7	0.7	0.3	0.3	0.3	0.7	1.7	3.4	5.0	6.7	8.4
122.5°	1.7	0.7	0.3	0.3	0.3	0.7	1.3	2.7	4.4	5.7	7.4
125°	1.3	0.7	0.3	0.3	0.3	0.3	1.3	2.4	3.7	5.0	6.4
127.5°	1.3	0.7	0.3	0.3	0.3	0.3	1.0	2.0	3.0	4.4	5.7
130°	1.0	0.7	0.3	0.3	0.3	0.3	0.7	1.7	2.7	3.7	4.7
132.5°	1.0	0.7	0.3	0.3	0.3	0.3	0.7	1.3	2.0	3.0	4.0
135°	1.0	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.7	2.4	3.0
137.5°	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.3	1.7	2.7
140°	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.3	2.0
142.5°	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.7
145°	0.7	0.3	0.3	0.7	0.7	0.3	0.3	0.7	0.7	1.0	1.3
147.5°	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0
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: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	654.0	646.2	650.3	648.9	650.3	653.6	653.3	652.3	653.0	651.3	649.6
5°	652.6	644.9	648.9	647.2	648.9	652.3	651.6	650.6	651.6	649.6	647.9
7.5°	650.9	643.9	648.6	648.3	651.3	655.6	656.0	656.0	658.3	655.3	654.0
10°	650.9	647.2	653.6	656.0	663.7	669.4	670.1	671.4	675.5	674.8	671.4
12.5°	658.0	657.3	666.7	672.4	679.5	687.6	691.9	693.3	696.0	694.0	692.6
15°	667.1	670.4	680.9	687.2	695.0	701.0	702.0	702.7	704.7	701.7	699.3
17.5°	679.2	681.2	689.6	692.3	697.3	698.3	697.0	693.6	693.6	686.9	684.9
20°	684.9	683.9	687.2	682.9	680.9	674.8	669.1	662.7	662.4	655.3	654.6
22.5°	679.8	673.1	666.1	655.3	650.6	641.9	634.1	630.4	628.1	619.0	616.7
25°	662.0	645.6	635.1	622.4	611.0	600.9	593.5	585.7	578.4	571.0	567.6
27.5°	631.1	615.7	598.9	581.0	565.2	549.8	537.4	529.6	522.6	512.8	507.8
30°	593.1	571.6	553.1	536.0	510.1	491.3	480.9	465.4	460.1	455.7	446.3
32.5°	548.4	522.6	497.4	474.2	447.6	430.2	416.4	404.9	401.6	390.2	387.5
35°	499.0	465.1	436.5	413.7	394.5	373.4	361.9	354.2	347.5	339.8	338.4
37.5°	440.9	410.3	378.1	357.9	342.8	324.6	315.9	310.5	307.5	301.8	300.8
40°	382.4	351.9	329.7	309.5	300.1	290.4	284.0	281.6	280.3	278.3	276.2
42.5°	329.3	302.5	286.7	273.2	269.2	264.5	262.8	264.1	262.8	262.1	261.8
45°	284.3	263.8	252.7	248.7	247.7	246.3	247.7	250.0	250.4	249.7	249.7
47.5°	243.3	233.6	228.9	229.5	231.2	232.2	234.6	237.6	238.3	236.6	237.3
50°	216.4	210.7	209.7	212.4	216.1	217.4	220.1	222.5	222.1	221.5	220.8
52.5°	191.2	189.5	192.2	194.9	198.9	199.6	200.6	201.6	201.3	200.0	199.3
55°	170.0	171.4	173.7	174.7	177.8	177.4	177.8	177.8	176.4	175.8	174.7
57.5°	150.9	151.2	152.6	152.9	154.6	153.9	153.6	152.9	150.9	150.6	149.5
60°	131.4	130.7	133.8	131.4	132.7	131.4	131.1	129.4	127.4	127.0	126.4
62.5°	112.9	111.6	113.6	112.6	113.3	111.9	111.2	109.2	107.5	107.2	106.9
65°	96.4	95.8	97.8	97.5	98.1	96.4	95.8	94.4	93.1	92.8	92.4
67.5°	82.7	84.4	85.4	85.4	86.0	85.7	84.0	83.7	83.3	82.0	82.0
70°	72.6	73.6	75.6	75.9	75.6	76.3	74.9	74.6	74.3	73.6	73.3
72.5°	64.5	65.9	67.9	68.2	67.9	67.9	67.2	66.9	66.9	65.9	65.9
75°	58.1	59.8	61.5	61.5	61.5	60.8	60.2	60.2	59.5	59.1	58.5
77.5°	52.8	54.8	56.1	55.8	55.4	54.8	54.8	53.8	52.8	52.8	52.1
80°	48.7	50.1	51.1	50.7	50.4	49.4	49.1	48.1	47.4	46.4	46.4
82.5°	44.4	46.0	46.7	46.4	45.7	44.7	44.4	43.7	43.0	42.7	42.0
85°	40.7	42.3	42.7	42.0	41.3	40.7	40.3	40.0	39.7	39.0	39.0
87.5°	37.0	38.6	38.6	38.3	37.6	37.3	37.0	36.6	36.3	36.0	35.6
90°	33.9	35.3	35.3	34.9	34.6	34.3	33.9	33.6	33.3	32.9	32.9
92.5°	30.9	32.3	32.3	31.9	31.6	31.3	31.3	30.9	30.6	30.2	29.9
95°	28.2	29.6	29.6	29.6	29.2	28.9	28.9	28.6	28.2	28.2	27.9
97.5°	25.5	26.9	26.9	26.9	26.5	26.2	26.2	25.9	25.9	25.9	25.5
100°	23.2	24.2	24.5	24.5	24.2	24.2	24.2	23.9	23.9	23.9	23.5
102.5°	20.8	21.8	22.5	22.5	22.5	22.2	22.2	22.2	22.2	22.2	21.8
105°	18.8	19.8	20.5	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
107.5°	17.1	18.1	18.8	19.2	19.5	19.5	19.8	19.8	19.8	19.8	19.8
110°	15.5	16.5	17.5	17.8	18.1	18.5	18.5	18.8	18.5	18.5	18.5



TEST NUMBER: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	13.8	15.1	15.8	16.5	16.8	17.1	17.5	17.5	17.5	17.5	17.5
115°	12.4	13.8	14.5	15.1	15.8	16.1	16.1	16.5	16.5	16.5	16.1
117.5°	11.1	12.4	13.1	13.8	14.1	14.8	15.1	15.1	15.1	15.1	14.8
120°	10.1	11.1	11.8	12.4	13.1	13.4	13.8	13.8	13.8	13.8	13.8
122.5°	8.7	9.7	10.8	11.4	11.8	12.1	12.4	12.4	12.4	12.4	12.4
125°	7.7	8.7	9.4	10.1	10.4	11.1	11.1	11.1	11.1	11.1	11.1
127.5°	6.7	7.7	8.4	9.1	9.4	9.7	10.1	10.1	10.1	10.1	10.1
130°	5.7	6.7	7.4	8.1	8.4	8.7	8.7	9.1	9.1	9.1	9.1
132.5°	5.0	5.7	6.4	7.1	7.4	7.7	7.7	8.1	8.1	8.1	8.1
135°	4.0	5.0	5.4	6.0	6.4	6.7	6.7	7.1	7.1	7.1	7.1
137.5°	3.4	4.0	4.7	5.4	5.7	5.7	6.0	6.0	6.4	6.4	6.4
140°	2.7	3.0	4.0	4.4	4.7	5.0	5.4	5.4	5.4	5.4	5.4
142.5°	2.0	2.7	3.0	3.7	4.0	4.4	4.7	4.7	4.7	4.7	4.7
145°	1.7	2.0	2.4	3.0	3.4	3.7	4.0	4.0	4.0	4.0	4.0
147.5°	1.3	1.7	2.0	2.4	2.7	3.0	3.4	3.4	3.4	3.4	3.4
150°	1.0	1.3	1.7	1.7	2.0	2.4	2.7	3.0	3.0	3.0	3.0
152.5°	1.0	1.0	1.3	1.3	1.7	2.0	2.4	2.4	2.4	2.4	2.4
155°	0.7	1.0	1.0	1.0	1.3	1.3	1.7	2.0	2.0	2.0	2.0
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: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	650.6	651.9	651.3	650.3	649.9	651.6	649.9	642.2	645.2	645.6	647.9
5°	649.6	650.6	649.9	649.3	648.3	650.3	648.3	640.2	643.2	643.5	645.9
7.5°	656.3	656.7	656.7	655.0	652.3	653.3	650.6	641.5	643.2	643.2	644.9
10°	673.1	673.8	674.8	670.4	667.1	664.4	660.7	649.6	649.3	646.6	646.6
12.5°	695.0	693.3	691.6	689.6	686.9	683.5	678.2	665.1	660.7	656.3	651.9
15°	701.3	700.7	700.3	699.3	697.7	696.6	692.6	679.5	673.1	667.7	660.0
17.5°	684.5	685.9	690.3	690.6	692.6	696.6	696.0	686.9	681.2	678.8	669.4
20°	654.3	654.6	660.0	662.4	671.1	677.8	682.9	681.9	680.5	683.2	676.1
22.5°	618.0	620.4	626.1	629.8	638.2	645.9	654.0	658.3	665.4	676.5	675.1
25°	568.6	571.6	579.7	585.7	597.5	609.3	620.0	627.8	636.2	657.3	664.4
27.5°	509.5	514.2	524.6	530.6	547.1	559.2	574.7	589.8	601.5	625.7	640.2
30°	447.3	451.3	462.4	470.8	484.9	501.4	520.9	542.4	561.9	586.4	604.6
32.5°	389.2	393.5	402.6	410.0	425.8	439.6	461.1	487.6	505.8	539.7	563.9
35°	338.4	342.4	348.8	355.2	368.3	382.4	400.9	426.8	450.0	485.3	515.8
37.5°	302.8	303.5	307.2	310.9	320.6	331.4	345.8	368.7	390.2	428.1	461.7
40°	277.2	277.2	279.3	280.3	284.6	291.0	300.1	317.9	335.7	364.6	405.6
42.5°	261.5	260.8	260.8	261.1	260.8	263.8	269.2	277.6	293.4	317.2	349.2
45°	249.7	248.3	247.3	245.0	243.6	243.6	244.0	247.0	256.1	271.5	297.4
47.5°	236.6	236.2	234.6	231.9	229.5	227.8	225.2	224.1	226.8	235.6	253.1
50°	221.5	219.8	218.1	216.1	213.4	211.7	206.7	207.0	204.7	208.7	217.8
52.5°	199.3	197.9	197.3	195.6	194.6	193.9	189.9	185.8	184.8	185.5	188.9
55°	174.7	175.4	172.7	174.1	173.7	170.7	169.0	166.0	165.0	164.7	166.3
57.5°	149.2	149.9	148.2	149.5	149.5	147.9	146.9	146.9	144.5	142.5	144.8
60°	126.0	124.7	125.7	127.4	127.4	126.4	125.7	125.7	124.0	123.3	125.0
62.5°	107.2	105.9	106.9	108.5	108.9	108.2	107.5	107.5	105.5	105.5	106.9
65°	92.8	93.1	92.8	94.1	94.1	94.4	93.8	93.1	90.7	91.7	91.4
67.5°	82.3	82.0	82.0	83.3	83.0	83.7	83.0	82.0	80.3	79.0	78.6
70°	73.6	73.3	73.3	73.9	74.3	74.3	73.9	73.3	70.9	69.6	68.6
72.5°	65.9	65.5	65.9	66.2	66.5	66.9	66.5	65.9	63.9	62.2	60.5
75°	58.8	58.5	59.5	59.5	59.8	59.8	60.2	59.8	58.1	56.1	54.1
77.5°	51.8	52.1	53.1	53.4	54.1	54.4	54.8	54.8	53.1	51.4	48.7
80°	46.0	46.7	47.4	47.7	48.4	49.4	49.7	50.1	48.7	47.0	44.0
82.5°	42.0	42.3	43.0	43.4	44.4	44.7	45.0	45.7	45.0	43.4	40.0
85°	38.6	39.0	39.7	39.7	40.3	41.0	41.3	41.7	41.3	39.7	36.3
87.5°	35.6	36.0	36.3	36.6	37.0	37.3	37.6	38.0	37.6	36.0	32.9
90°	32.9	32.9	33.3	33.3	33.6	33.9	34.6	34.6	34.3	32.9	29.9
92.5°	29.9	30.2	30.2	30.6	30.9	31.3	31.6	31.6	31.3	29.9	27.2
95°	27.9	27.9	28.2	28.2	28.6	28.6	28.9	28.9	28.6	27.2	24.5
97.5°	25.5	25.5	25.5	25.5	25.9	25.9	26.2	26.2	25.9	24.5	22.2
100°	23.5	23.5	23.5	23.5	23.5	23.9	23.9	23.9	23.5	22.2	19.8
102.5°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.2	20.2	17.8
105°	20.8	20.8	20.8	20.5	20.5	20.5	20.2	20.2	19.2	18.1	16.1
107.5°	19.5	19.5	19.5	19.2	19.2	18.8	18.5	18.5	17.5	16.5	14.5
110°	18.5	18.5	18.5	18.1	17.8	17.5	17.1	16.8	15.8	14.5	12.8



TEST NUMBER: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	17.5	17.5	17.1	17.1	16.8	16.5	15.8	15.5	14.5	13.1	11.4
115°	16.1	16.1	16.1	15.8	15.5	15.1	14.8	14.1	13.1	11.8	10.1
117.5°	14.8	14.8	14.8	14.5	14.1	13.8	13.4	12.8	11.8	10.4	9.1
120°	13.4	13.4	13.4	13.1	12.8	12.4	12.1	11.4	10.4	9.4	7.7
122.5°	12.4	12.4	12.1	11.8	11.4	11.1	10.8	10.1	9.4	8.1	6.7
125°	11.1	11.1	10.8	10.8	10.4	10.1	9.7	9.1	8.1	7.1	6.0
127.5°	10.1	9.7	9.7	9.7	9.4	9.1	8.4	8.1	7.1	6.0	5.0
130°	8.7	8.7	8.7	8.4	8.4	8.1	7.4	6.7	6.0	5.4	4.4
132.5°	7.7	7.7	7.7	7.7	7.4	7.1	6.4	6.0	5.4	4.4	3.7
135°	7.1	7.1	6.7	6.7	6.4	6.0	5.7	5.0	4.4	3.7	3.0
137.5°	6.0	6.0	6.0	5.7	5.7	5.4	4.7	4.4	4.0	3.4	2.7
140°	5.4	5.4	5.0	5.0	4.7	4.7	4.4	3.7	3.4	2.7	2.4
142.5°	4.7	4.7	4.4	4.4	4.0	4.0	3.7	3.4	2.7	2.4	1.7
145°	4.0	4.0	3.7	3.7	3.7	3.4	3.0	2.7	2.4	2.0	1.7
147.5°	3.4	3.4	3.4	3.0	3.0	2.7	2.7	2.4	2.0	1.7	1.3
150°	3.0	3.0	2.7	2.7	2.7	2.4	2.0	2.0	1.7	1.3	1.0
152.5°	2.4	2.4	2.4	2.4	2.0	2.0	1.7	1.7	1.3	1.0	1.0
155°	2.0	2.0	2.0	1.7	1.7	1.7	1.3	1.3	1.0	1.0	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: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	646.9	646.6	649.6	649.3	645.2	651.3	655.3
5°	645.2	644.9	647.6	648.3	643.9	650.3	654.6
7.5°	643.9	643.5	646.6	647.6	643.2	648.9	653.6
10°	644.2	642.5	645.2	645.9	641.9	647.9	651.9
12.5°	646.6	642.5	643.5	643.5	639.9	645.2	649.6
15°	652.3	643.9	642.5	641.5	636.8	641.9	646.2
17.5°	658.7	647.2	642.5	639.2	633.5	637.8	642.5
20°	665.1	650.9	643.2	637.8	630.1	634.1	637.5
22.5°	668.1	654.3	643.9	635.8	626.1	628.1	631.8
25°	664.0	653.0	642.5	632.8	621.0	621.4	624.4
27.5°	649.3	646.2	639.5	629.8	617.0	615.3	617.7
30°	624.1	632.5	632.8	625.7	612.3	608.9	609.9
32.5°	588.8	607.6	618.7	617.3	605.6	600.9	601.5
35°	548.1	571.6	595.8	603.9	595.5	591.8	590.5
37.5°	499.4	531.0	563.2	583.1	581.7	579.4	578.0
40°	445.6	483.6	521.9	553.5	563.2	563.2	563.9
42.5°	388.1	432.5	474.5	514.5	537.4	542.4	544.4
45°	332.7	377.4	423.1	469.1	499.7	515.5	521.2
47.5°	282.3	327.3	370.7	421.1	461.7	482.2	491.3
50°	239.3	272.9	318.6	368.7	413.0	438.2	456.0
52.5°	203.7	229.9	269.9	316.6	361.3	395.9	412.3
55°	173.7	191.6	225.5	265.8	308.5	344.5	363.6
57.5°	148.5	162.7	185.8	219.4	255.4	291.0	311.5
60°	126.4	136.1	151.9	178.4	209.0	239.6	259.4
62.5°	107.2	113.6	124.0	143.5	167.4	191.2	209.7
65°	92.4	95.1	100.8	112.9	131.1	149.2	165.0
67.5°	78.0	79.6	84.0	91.4	100.5	113.6	124.0
70°	67.2	67.2	67.5	71.9	76.6	85.0	92.4
72.5°	58.5	57.5	55.4	56.5	57.5	62.2	66.9
75°	51.4	49.1	45.7	44.4	43.7	44.4	47.0
77.5°	45.4	42.0	38.0	34.6	31.9	30.9	33.3
80°	40.3	36.3	31.6	27.2	22.9	20.5	21.5
82.5°	36.3	31.3	26.2	21.2	16.1	12.8	12.8
85°	31.9	27.2	21.8	16.5	11.4	7.1	6.4
87.5°	28.9	23.9	18.1	13.1	8.1	3.7	2.0
90°	25.9	20.8	15.5	10.4	5.7	1.7	0.0
92.5°	23.2	18.5	13.4	8.4	4.0	1.0	0.0
95°	20.8	16.5	11.4	7.1	3.4	0.7	0.3
97.5°	18.5	14.5	10.1	5.7	2.4	0.7	0.3
100°	16.8	12.8	8.7	4.7	2.0	0.3	0.3
102.5°	14.8	11.4	7.4	4.0	1.7	0.3	0.3
105°	13.1	10.1	6.4	3.4	1.3	0.3	0.3
107.5°	11.8	8.7	5.7	3.0	1.3	0.3	0.3
110°	10.4	7.7	5.0	2.7	1.0	0.3	0.3

TEST NUMBER: P1212965

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	9.4	6.7	4.4	2.4	0.7	0.3	0.3
115°	8.1	6.0	3.7	2.0	0.7	0.3	0.3
117.5°	7.1	5.0	3.4	1.7	0.7	0.3	0.3
120°	6.0	4.4	2.7	1.3	0.3	0.3	0.3
122.5°	5.4	3.7	2.4	1.3	0.3	0.3	0.3
125°	4.7	3.4	2.0	1.0	0.3	0.3	0.3
127.5°	4.0	2.7	1.7	0.7	0.3	0.3	0.3
130°	3.4	2.4	1.3	0.7	0.3	0.3	0.3
132.5°	2.7	2.0	1.3	0.7	0.3	0.3	0.3
135°	2.4	1.7	1.0	0.7	0.3	0.3	0.3
137.5°	2.0	1.3	0.7	0.7	0.7	0.3	0.3
140°	1.7	1.0	0.7	0.7	0.7	0.7	0.3
142.5°	1.3	1.0	0.7	0.7	0.7	0.7	0.3
145°	1.0	0.7	0.7	0.7	0.7	0.7	0.3
147.5°	1.0	0.7	0.7	0.7	0.7	0.7	0.3
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)