

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: P1213668

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

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213668
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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

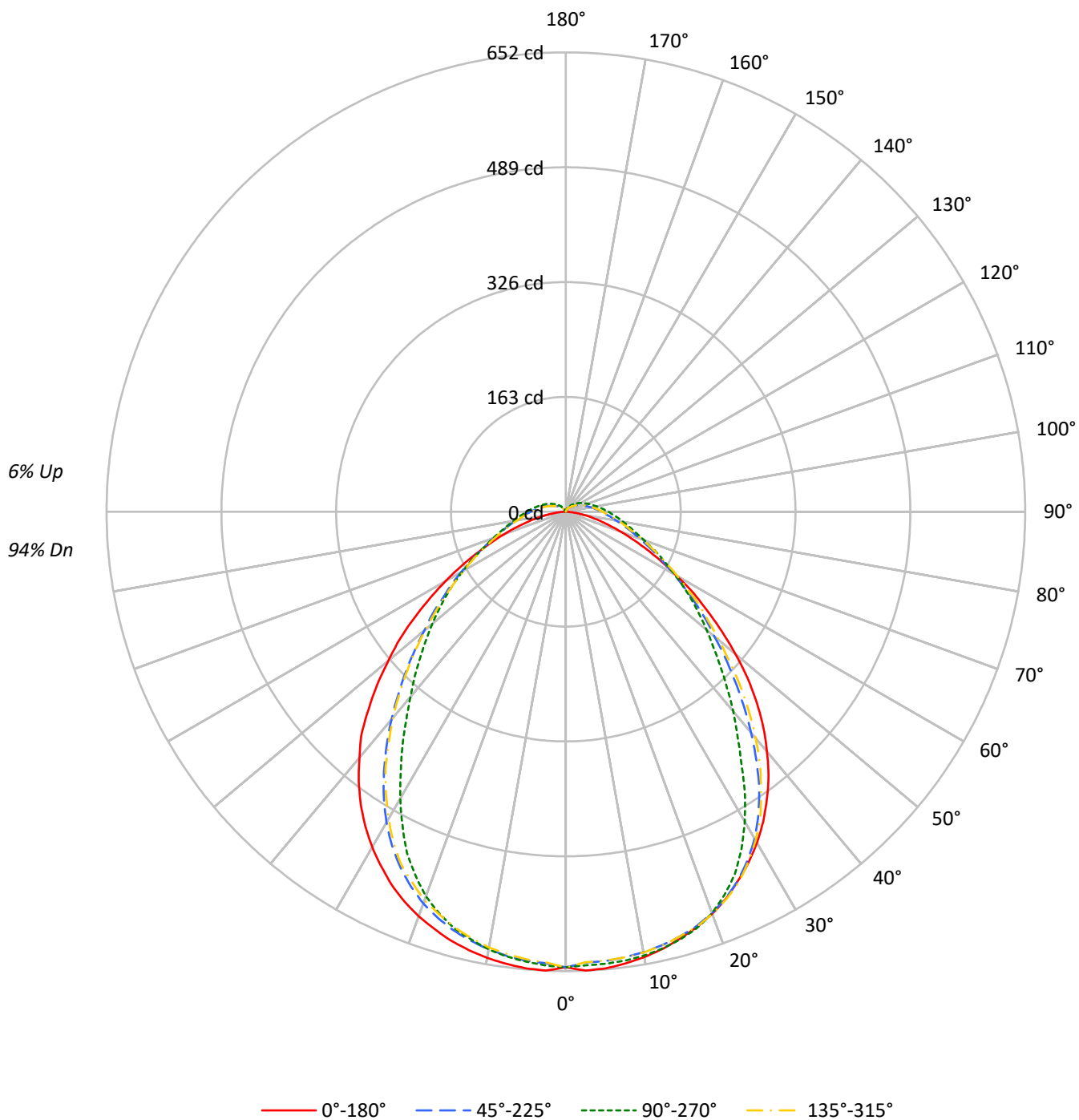
Lumens per Lamp: N/A
Luminaire Lumens: 1636.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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°	10449	10449	10449	10449
5°	10495	10116	10495	10070
10°	10418	9847	10436	9710
15°	10323	9552	10369	9304
20°	10213	9174	10273	8787
25°	10019	8613	10130	8106
30°	9773	7789	9901	7210
35°	9410	6778	9591	6310
40°	8903	5928	9139	5500
45°	8246	5153	8514	4858
50°	7364	4527	7689	4300
55°	6327	3999	6788	3795
60°	5279	3510	5755	3308
65°	4279	3104	4711	2877
70°	3355	2754	3759	2547
75°	2572	2544	2896	2341
80°	1787	2454	2103	2243
85°	995	2468	1341	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 8514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.7
10°-20°	175.7	10.7
20°-30°	260.5	15.9
30°-40°	289.4	17.7
40°-50°	262.3	16.0
50°-60°	203.3	12.4
60°-70°	138.0	8.4
70°-80°	87.8	5.4
80°-90°	56.1	3.4
90°-100°	37.8	2.3
100°-110°	25.9	1.6
110°-120°	17.3	1.1
120°-130°	10.8	0.7
130°-140°	6.0	0.4
140°-150°	2.8	0.2
150°-160°	1.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	497.5	30.4
0°-40°	786.8	48.1
0°-60°	1252.4	76.6
0°-90°	1534.3	93.8
90°-120°	81.1	5.0
90°-150°	100.6	6.1
90°-180°	102.0	6.2
0°-180°	1636.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	646	646	646	646	646	
5°	650	644	650	641	650	62
15°	627	628	630	612	627	177
25°	578	568	585	534	578	266
35°	498	434	507	404	498	311
45°	383	310	396	292	383	294
55°	245	218	262	207	245	220
65°	127	146	140	136	127	127
75°	51	98	57	90	51	55
85°	9	70	12	65	9	11
90°	0	61	1	56	0	1
95°	0	52	0	48	0	0
105°	0	38	0	36	0	0
115°	0	29	0	27	0	0
125°	0	21	0	19	0	0
135°	0	15	0	12	0	0
145°	0	10	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°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	651.8	651.1	650.4	649.3	650.4	653.2	651.4	647.5	646.8	640.4	643.3
5°	650.4	649.3	648.6	647.5	648.9	652.5	650.7	647.2	646.1	640.1	643.3
7.5°	646.8	646.1	645.0	645.0	646.5	650.0	648.6	644.7	644.0	637.9	641.5
10°	641.8	641.5	640.8	640.8	642.2	646.5	644.7	641.1	640.4	634.7	638.6
12.5°	635.4	635.8	634.7	634.7	636.9	641.1	639.7	635.8	635.1	630.1	634.0
15°	627.3	627.6	626.9	627.3	629.4	634.4	632.6	629.0	628.3	624.4	627.6
17.5°	618.0	618.4	618.4	618.0	620.5	625.5	624.1	620.8	619.8	616.6	620.5
20°	607.3	607.3	607.3	607.3	610.2	615.2	613.4	610.9	608.8	606.3	609.5
22.5°	594.2	593.8	594.2	595.2	598.1	602.0	600.9	598.1	594.9	593.5	596.0
25°	578.2	579.2	579.6	580.7	584.2	587.4	586.4	583.5	578.5	577.5	578.2
27.5°	561.5	562.2	563.2	562.9	567.9	571.1	568.9	566.4	559.3	558.3	557.6
30°	542.6	543.7	544.4	544.0	548.0	551.5	549.4	546.2	536.6	535.9	530.2
32.5°	521.3	522.4	523.1	523.1	528.8	530.2	526.3	521.6	511.3	508.8	503.9
35°	497.8	498.9	499.2	499.2	504.9	504.6	499.6	493.2	481.8	478.6	470.1
37.5°	472.6	473.3	473.6	475.8	478.3	476.1	469.7	461.5	453.0	444.1	434.9
40°	444.1	445.2	445.9	447.3	449.8	447.3	438.1	428.1	418.9	408.9	399.7
42.5°	415.0	418.2	417.5	417.1	418.5	411.8	404.7	393.3	384.0	373.7	364.5
45°	383.3	383.0	384.7	385.5	385.1	379.4	369.5	359.1	349.9	339.2	331.4
47.5°	349.9	349.5	351.0	351.7	349.5	343.5	335.7	323.9	316.1	306.9	300.8
50°	314.7	314.7	316.8	314.7	313.6	307.6	301.2	289.4	283.4	275.2	271.7
52.5°	279.5	282.7	280.6	279.8	278.8	272.7	267.8	258.2	253.2	249.6	245.4
55°	244.6	248.2	246.8	245.7	245.4	240.4	235.8	228.6	225.4	223.0	220.5
57.5°	215.1	214.8	214.1	213.0	213.4	209.4	204.8	200.9	199.5	198.4	199.1
60°	181.0	183.8	182.8	183.1	183.5	182.8	178.9	176.4	176.7	177.1	178.1
62.5°	152.9	155.4	157.2	155.7	156.5	157.5	155.4	154.7	156.1	157.5	158.9
65°	126.9	129.4	131.2	130.9	133.0	135.1	134.8	135.5	138.7	140.5	142.2
67.5°	103.5	106.0	108.5	108.8	112.0	115.2	116.6	119.1	122.7	125.2	127.3
70°	83.2	85.3	88.2	90.0	94.2	98.5	101.0	106.0	108.1	111.7	113.1
72.5°	65.1	66.8	70.8	75.0	78.6	83.9	88.9	93.2	96.4	100.3	102.1
75°	50.8	51.6	55.8	60.8	65.8	71.8	77.2	81.8	86.1	90.0	92.8
77.5°	37.3	38.4	42.3	49.1	54.8	61.2	67.2	72.2	76.8	80.7	84.6
80°	26.0	28.1	32.4	39.1	45.5	52.6	58.3	64.0	69.0	72.9	76.8
82.5°	16.7	18.5	24.5	31.3	38.0	45.2	51.2	56.9	62.2	66.5	70.1
85°	9.2	11.7	17.8	24.9	31.6	38.8	45.2	50.8	56.2	60.1	63.6
87.5°	3.6	7.1	12.8	19.6	26.3	33.1	39.8	45.2	50.5	54.8	58.0
90°	0.0	4.3	9.6	16.4	23.1	29.9	36.3	42.0	46.9	50.8	54.4
92.5°	0.4	2.8	7.5	13.2	19.6	26.0	32.0	37.7	42.7	46.6	49.8
95°	0.4	2.1	6.0	11.4	17.1	23.1	28.8	34.1	38.8	42.7	45.9
97.5°	0.4	1.4	5.0	10.0	14.9	21.0	26.3	31.3	35.6	39.5	42.0
100°	0.4	1.4	4.3	8.5	13.5	18.8	23.8	28.8	32.7	35.9	38.8
102.5°	0.4	1.1	3.6	7.5	12.1	16.7	21.7	26.3	29.9	33.1	35.9
105°	0.4	1.1	3.2	6.4	10.7	15.3	19.6	23.8	27.7	30.6	33.1
107.5°	0.4	0.7	2.8	5.3	9.2	13.9	18.1	21.7	25.2	28.1	30.6
110°	0.4	0.7	2.5	5.0	8.2	12.4	16.4	19.9	23.1	26.0	28.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.7	2.1	4.6	7.5	11.0	14.9	18.1	21.3	23.8	26.0
115°	0.4	0.7	2.1	4.3	6.8	9.6	13.2	16.7	19.2	22.0	23.8
117.5°	0.4	0.7	1.8	3.6	6.4	8.9	12.1	14.9	17.8	20.3	22.0
120°	0.4	0.7	1.8	3.2	5.7	8.2	10.7	13.5	16.4	18.1	19.9
122.5°	0.4	0.7	1.4	3.2	5.0	7.5	9.6	12.1	14.6	16.7	18.5
125°	0.4	0.7	1.4	2.8	4.6	6.8	8.9	10.7	13.2	14.9	16.7
127.5°	0.4	0.7	1.4	2.5	4.3	6.0	8.2	10.0	11.7	13.5	14.9
130°	0.4	0.7	1.1	2.1	3.9	5.3	7.1	9.2	10.7	12.1	13.5
132.5°	0.4	0.7	1.1	2.1	3.2	4.6	6.4	8.2	9.6	11.0	12.1
135°	0.4	0.7	1.1	1.8	2.8	4.3	5.3	7.1	8.5	10.0	11.0
137.5°	0.4	0.7	1.1	1.8	2.5	3.6	4.6	6.0	7.5	8.5	10.0
140°	0.4	0.7	1.1	1.4	2.1	3.2	4.3	5.0	6.4	7.5	8.5
142.5°	0.4	0.7	1.1	1.4	2.1	2.8	3.6	4.3	5.3	6.4	7.5
145°	0.4	0.7	1.1	1.4	1.8	2.5	3.2	3.9	4.3	5.3	6.0
147.5°	0.4	0.7	1.1	1.4	1.4	2.1	2.8	3.2	3.9	4.3	5.0
150°	0.4	0.7	1.1	1.1	1.4	1.8	2.5	2.8	3.2	3.9	4.3
152.5°	0.4	0.7	1.1	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.6
155°	0.4	0.7	1.1	1.1	1.1	1.4	1.8	2.1	2.5	2.8	3.2
157.5°	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.8	2.1	2.1	2.5
160°	0.7	0.7	0.7	1.1	1.1	1.1	1.4	1.4	1.8	1.8	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°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	642.5	643.6	646.8	646.8	646.1	645.4	645.4	644.3	645.0	646.5	645.7
5°	642.5	643.6	646.8	646.8	646.1	645.4	645.0	644.0	645.0	646.5	645.7
7.5°	640.4	641.8	645.0	645.0	644.3	644.0	643.3	642.5	643.6	645.0	644.3
10°	637.6	639.0	642.2	642.2	641.5	641.5	640.4	639.7	641.1	642.2	641.8
12.5°	633.3	635.1	637.9	637.6	636.9	637.2	636.1	634.7	636.1	637.2	637.6
15°	627.3	629.4	632.2	631.5	630.5	631.2	629.4	628.3	629.4	631.5	631.2
17.5°	619.4	620.8	623.0	623.0	621.9	621.2	620.5	619.4	620.1	621.6	621.9
20°	608.4	610.2	611.2	610.2	609.8	608.8	607.3	606.3	607.7	609.8	610.2
22.5°	593.8	594.2	596.7	594.2	592.4	592.0	590.6	588.5	590.6	592.4	592.8
25°	575.7	577.5	576.4	572.1	572.1	569.3	568.6	567.5	567.9	571.1	572.5
27.5°	552.6	553.3	550.4	546.9	543.7	541.9	539.4	539.8	539.8	544.0	545.5
30°	527.3	523.4	520.9	515.2	512.8	508.5	507.8	507.8	507.1	509.2	515.6
32.5°	497.1	491.8	487.9	482.5	478.3	474.0	471.9	472.9	472.6	477.9	480.0
35°	464.0	460.8	452.7	445.9	443.4	437.0	437.0	433.8	435.9	442.0	444.5
37.5°	429.2	424.2	417.5	410.0	408.2	403.2	401.5	399.7	404.3	405.4	407.9
40°	393.6	389.0	382.6	375.5	375.5	369.5	369.5	369.5	369.8	371.9	376.6
42.5°	359.9	354.9	349.2	344.2	343.5	338.9	338.9	338.5	339.2	341.0	345.3
45°	327.1	323.2	317.2	314.7	315.0	310.1	311.1	310.1	311.5	313.3	314.7
47.5°	296.9	294.4	291.9	288.4	287.3	287.0	285.2	283.8	286.2	286.2	288.4
50°	268.8	267.4	266.0	263.8	264.2	262.8	260.6	260.6	262.4	262.8	264.2
52.5°	244.3	242.5	240.7	241.1	241.4	240.7	239.7	238.6	239.7	240.4	242.2
55°	219.8	218.3	220.1	219.4	220.1	219.4	218.7	218.0	219.8	218.7	220.5
57.5°	197.7	199.1	199.8	198.4	199.5	198.8	199.1	198.1	199.5	200.2	199.8
60°	177.4	179.6	178.5	178.9	180.3	179.6	178.1	179.2	180.6	181.0	180.6
62.5°	158.9	161.4	162.5	161.8	162.1	161.4	162.5	161.1	162.9	163.6	162.5
65°	142.2	145.1	145.8	145.8	145.8	145.1	146.1	146.5	147.2	147.2	146.5
67.5°	128.0	130.5	131.2	131.9	131.2	130.5	130.5	130.9	132.3	133.0	132.3
70°	115.2	117.7	118.1	118.1	118.4	119.1	117.7	118.4	119.5	119.8	119.5
72.5°	104.2	106.7	107.4	107.0	107.4	107.7	107.7	107.0	108.1	108.8	108.8
75°	95.3	96.7	97.4	97.4	97.8	98.1	98.1	97.8	98.5	98.9	99.2
77.5°	87.1	88.2	89.3	89.3	89.6	89.3	90.0	90.0	90.3	90.7	91.0
80°	78.9	80.4	81.1	81.4	82.1	82.5	82.5	82.5	82.9	83.2	83.2
82.5°	72.5	73.6	74.7	75.7	75.7	76.1	76.1	76.1	76.5	76.5	76.8
85°	66.1	67.6	68.6	69.3	69.7	70.1	70.1	70.4	70.4	70.4	70.8
87.5°	60.4	62.2	62.9	63.6	64.0	64.7	64.7	64.7	65.1	65.1	65.1
90°	56.5	58.3	59.0	59.7	60.1	60.4	60.4	60.8	60.8	61.2	61.2
92.5°	51.9	53.7	55.1	55.1	55.5	56.2	55.8	55.8	56.2	56.5	56.5
95°	48.4	49.8	50.8	51.2	51.6	51.6	51.6	51.9	51.6	51.9	51.9
97.5°	44.1	45.5	46.6	47.3	47.6	47.6	47.6	48.0	47.6	48.0	48.0
100°	40.5	42.0	43.0	43.4	44.1	44.1	44.1	44.1	44.1	44.1	44.4
102.5°	37.7	39.1	39.8	40.2	40.5	40.9	40.9	40.9	40.9	41.2	41.2
105°	34.8	36.3	37.0	37.3	37.7	38.0	38.0	38.0	38.4	38.4	38.0
107.5°	32.4	33.4	34.1	34.8	35.2	35.2	35.6	35.6	35.6	35.6	35.6
110°	29.9	30.9	32.0	32.7	32.7	33.1	33.1	33.4	33.4	33.1	33.4

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	27.4	28.8	29.5	30.2	30.6	30.9	30.9	30.9	30.9	30.9	30.9
115°	25.2	26.7	27.4	28.1	28.4	28.8	28.8	28.8	28.8	28.8	28.8
117.5°	23.5	24.9	25.6	26.0	26.3	26.7	27.0	27.0	27.0	27.0	26.7
120°	21.7	22.8	23.5	24.2	24.5	24.9	24.9	24.9	24.9	24.9	24.9
122.5°	19.9	21.0	21.7	22.4	22.8	23.1	23.1	23.1	23.1	23.1	23.1
125°	18.1	19.2	19.9	20.6	21.0	21.3	21.3	21.3	21.3	21.3	21.3
127.5°	16.4	17.4	18.5	18.8	19.2	19.6	19.6	19.6	19.9	19.6	19.6
130°	14.6	15.6	16.7	17.1	17.4	17.8	18.1	18.1	18.1	18.1	17.8
132.5°	13.2	14.2	14.9	15.3	16.0	16.0	16.4	16.4	16.4	16.4	16.0
135°	12.1	12.8	13.5	13.9	14.6	14.6	14.6	14.9	14.9	14.6	14.2
137.5°	10.7	11.4	12.1	12.4	12.8	13.2	13.2	13.5	13.2	13.2	13.2
140°	10.0	10.3	11.0	11.4	11.7	11.7	11.7	12.1	12.1	11.7	11.7
142.5°	8.5	9.2	10.0	10.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7
145°	7.1	8.2	8.5	9.2	9.2	9.6	9.6	9.6	9.6	9.6	9.2
147.5°	6.0	6.8	7.8	8.2	8.2	8.5	8.5	8.5	8.5	8.5	8.2
150°	4.6	5.3	6.4	7.1	7.1	7.5	7.5	7.5	7.5	7.1	7.1
152.5°	3.9	4.6	5.0	5.7	6.0	6.0	6.0	6.4	6.0	6.0	6.0
155°	3.6	3.9	4.3	4.6	5.0	5.3	5.3	5.3	5.3	5.0	5.0
157.5°	2.8	3.2	3.6	3.9	4.3	4.6	4.6	4.6	4.6	4.6	4.3
160°	2.1	2.5	2.8	2.8	3.2	3.6	3.9	3.6	3.6	3.6	3.6
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: P1213668

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	645.0	644.7	645.7	644.0	638.6	640.1	639.3	642.5	643.3	644.0	647.2
5°	645.0	644.7	645.4	644.0	638.3	639.3	638.6	641.8	642.5	642.9	646.1
7.5°	643.6	643.3	644.3	642.5	636.5	637.9	636.9	640.1	640.4	640.8	643.6
10°	640.8	640.4	641.1	639.7	633.7	635.1	633.7	636.9	636.9	637.6	639.7
12.5°	636.5	635.8	637.2	635.4	628.7	630.5	629.7	631.9	632.2	632.6	634.7
15°	630.5	629.7	630.8	629.7	623.7	624.1	623.0	626.2	626.5	625.8	628.0
17.5°	621.6	620.8	623.0	622.3	616.2	617.6	617.3	618.0	619.1	617.3	620.1
20°	610.5	611.2	612.0	612.3	607.7	607.7	607.3	608.8	609.8	608.4	610.5
22.5°	594.2	596.0	598.1	598.8	595.6	595.2	597.4	596.7	597.7	597.0	598.4
25°	573.6	577.1	579.2	581.4	579.6	580.3	583.5	584.2	584.2	583.9	585.3
27.5°	548.0	552.6	556.5	561.1	559.3	560.8	566.1	566.8	568.2	566.8	569.6
30°	517.4	521.6	529.1	535.9	536.6	538.7	546.2	546.9	550.8	549.4	550.4
32.5°	486.8	488.9	497.5	504.2	508.5	513.8	522.0	523.4	528.8	529.8	529.8
35°	448.4	454.4	462.3	471.9	477.2	482.9	493.9	496.0	503.9	506.4	509.2
37.5°	416.0	421.7	426.7	436.7	446.3	452.7	461.5	466.9	475.1	479.7	483.2
40°	381.5	386.2	391.5	401.5	409.6	419.2	428.1	434.5	444.8	450.2	454.8
42.5°	348.8	352.4	358.1	365.2	373.7	384.4	392.9	400.4	411.4	418.9	424.2
45°	319.7	321.8	326.8	332.1	339.6	350.6	358.8	368.4	377.3	385.1	391.5
47.5°	292.3	295.1	297.6	301.2	307.9	314.7	324.3	333.5	342.4	351.0	357.4
50°	267.0	267.0	271.0	273.4	278.1	284.1	291.6	298.0	309.0	315.0	323.2
52.5°	242.5	243.9	246.1	247.5	251.0	255.0	261.0	266.3	275.6	281.3	289.1
55°	220.8	222.2	223.3	224.0	226.2	230.8	232.9	237.2	243.6	248.2	255.0
57.5°	200.2	200.9	202.0	202.3	202.7	205.5	207.3	208.4	214.8	219.4	225.1
60°	181.3	181.3	182.4	182.1	181.7	183.1	182.8	183.8	187.7	190.6	193.1
62.5°	163.6	163.6	163.9	163.2	162.9	162.9	161.4	162.5	163.6	163.9	165.7
65°	147.2	149.0	147.6	147.9	145.8	145.1	144.4	142.2	141.9	140.5	141.2
67.5°	132.6	134.1	132.6	132.6	130.9	129.4	127.7	124.1	123.0	120.2	119.5
70°	120.9	119.8	120.5	119.5	117.3	115.6	113.1	110.2	106.7	103.1	100.6
72.5°	109.5	109.5	108.8	107.7	106.7	103.1	100.3	97.1	92.8	88.2	84.6
75°	98.5	98.9	98.9	97.8	96.0	92.8	89.6	85.0	80.4	75.0	70.4
77.5°	90.7	90.7	90.7	88.9	87.1	84.3	80.4	75.4	70.4	64.0	58.7
80°	83.2	82.9	82.9	80.7	78.9	75.7	71.8	66.8	61.5	54.8	48.7
82.5°	77.2	76.8	76.1	74.3	71.8	68.6	64.7	59.4	53.7	47.6	40.2
85°	70.8	70.4	69.7	67.9	65.4	62.6	58.3	53.0	47.3	40.5	33.4
87.5°	65.1	64.7	63.6	62.6	59.7	56.5	52.3	47.3	41.2	34.8	27.7
90°	61.2	60.4	59.7	58.3	55.8	52.3	48.0	42.7	36.6	30.2	23.1
92.5°	56.5	56.2	55.1	53.7	51.6	48.0	43.7	38.8	32.7	26.7	19.9
95°	51.9	51.6	50.8	49.4	47.3	44.1	40.2	35.2	29.5	23.5	17.4
97.5°	47.6	47.6	46.6	45.5	43.0	40.5	36.6	32.0	26.7	21.3	15.6
100°	44.1	44.1	43.0	41.6	39.8	37.3	33.4	29.2	24.2	19.2	13.5
102.5°	40.9	40.5	39.8	38.4	36.6	34.1	30.6	26.7	22.0	17.1	12.1
105°	38.0	37.7	37.0	35.6	34.1	31.3	28.4	24.5	19.9	15.3	10.7
107.5°	35.2	34.8	34.5	33.1	31.3	28.8	26.0	22.0	18.1	13.9	9.6
110°	32.7	32.4	31.6	30.2	28.4	26.3	23.5	20.3	16.4	12.4	8.5

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	30.6	30.2	29.5	28.1	26.7	24.2	21.7	18.1	14.9	11.4	7.5
115°	28.4	28.1	27.4	26.0	24.2	22.0	19.6	16.7	13.2	10.0	6.8
117.5°	26.3	26.0	25.2	24.2	22.4	20.3	17.8	14.9	11.7	9.2	6.0
120°	24.5	23.8	23.1	22.0	20.3	18.5	16.0	13.5	10.7	8.2	5.3
122.5°	22.8	22.0	21.3	20.3	18.5	16.7	14.2	12.1	10.0	7.5	5.0
125°	20.6	20.3	19.6	18.5	16.7	14.9	13.2	11.0	8.9	6.8	4.3
127.5°	18.8	18.5	17.8	16.4	14.9	13.5	11.7	10.0	7.8	5.7	3.9
130°	17.4	16.7	16.0	14.9	13.9	12.4	10.7	8.9	7.1	5.0	3.6
132.5°	15.6	14.9	14.2	13.5	12.4	11.0	9.6	7.8	6.4	4.6	3.2
135°	14.2	13.5	12.8	12.1	11.0	10.0	8.5	7.1	5.7	4.3	2.8
137.5°	12.4	12.1	11.7	11.0	10.0	8.9	7.8	6.0	5.0	3.9	2.5
140°	11.4	11.0	10.7	9.6	8.9	7.8	6.8	5.3	4.3	3.2	2.1
142.5°	10.3	10.0	9.2	8.5	7.8	7.1	5.7	5.0	3.9	2.8	2.1
145°	8.9	8.5	8.2	7.5	6.8	5.7	5.0	4.3	3.6	2.5	1.8
147.5°	8.2	7.8	7.1	6.4	5.7	5.0	4.6	3.9	2.8	2.1	1.4
150°	6.8	6.4	6.0	5.3	5.0	4.6	3.9	3.2	2.5	1.8	1.4
152.5°	5.7	5.3	5.0	5.0	4.3	3.9	3.2	2.8	2.1	1.8	1.1
155°	5.0	5.0	4.6	4.3	3.6	3.2	2.8	2.1	1.8	1.4	1.1
157.5°	4.3	3.9	3.6	3.6	3.2	2.8	2.1	1.8	1.4	1.4	1.1
160°	3.6	3.2	3.2	2.8	2.5	2.1	1.8	1.8	1.4	1.1	1.1
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

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	647.5	643.6	647.2	651.8	651.8	651.1	650.4	651.8	655.3	653.9	649.7
5°	646.5	642.5	645.7	650.4	650.4	649.3	648.6	649.7	653.6	651.8	647.9
7.5°	644.3	640.8	642.9	647.2	647.2	646.1	645.4	646.8	650.0	648.2	644.0
10°	640.4	636.5	639.0	642.9	642.5	641.8	640.8	642.5	645.4	642.9	637.9
12.5°	635.4	631.5	633.7	637.2	636.9	635.4	634.7	635.8	638.3	636.9	631.5
15°	628.7	624.8	626.5	630.1	629.0	628.0	626.5	626.9	630.1	627.6	621.9
17.5°	620.5	616.2	617.6	620.8	619.8	618.7	616.9	617.3	620.8	617.3	611.2
20°	610.5	605.9	607.0	610.9	609.1	607.3	605.6	605.6	609.1	605.2	598.4
22.5°	599.9	595.2	596.0	598.8	597.4	594.2	592.4	593.5	595.2	590.3	583.2
25°	586.7	580.7	581.7	584.6	583.5	579.2	577.5	578.2	577.5	573.6	566.1
27.5°	571.4	565.0	565.7	567.5	566.1	562.2	560.0	560.4	559.0	554.0	545.5
30°	552.2	549.0	548.7	549.7	547.6	543.7	541.2	540.5	540.1	533.0	522.7
32.5°	532.7	529.8	528.0	529.5	527.0	523.1	518.8	518.8	515.2	508.5	499.6
35°	512.8	508.1	506.4	507.4	504.6	499.6	496.0	494.3	488.9	480.4	470.8
37.5°	487.2	484.0	481.8	482.9	479.7	476.1	469.4	467.6	461.9	450.2	438.1
40°	459.4	456.9	454.8	455.9	452.3	447.0	440.9	438.1	431.7	418.5	408.9
42.5°	429.5	428.5	426.0	429.9	422.8	417.5	411.4	406.8	400.4	386.2	375.1
45°	397.9	400.4	394.7	395.8	391.1	386.5	380.1	373.4	367.0	353.5	341.0
47.5°	364.5	366.3	362.3	363.1	358.1	353.8	348.1	339.6	332.5	320.7	309.7
50°	330.0	329.3	329.3	328.6	324.6	319.3	313.6	305.8	298.7	288.0	278.8
52.5°	293.4	294.8	295.5	297.3	292.3	289.1	280.2	273.4	268.1	257.1	249.3
55°	258.2	263.1	261.7	262.4	256.7	254.2	247.1	241.8	234.0	227.6	222.6
57.5°	226.2	227.2	227.9	229.0	226.5	221.5	215.8	211.6	205.5	200.2	196.6
60°	195.2	195.2	195.6	197.3	194.9	190.6	186.3	183.1	178.9	175.7	173.5
62.5°	166.1	168.5	168.9	167.5	164.3	162.1	159.3	157.5	154.7	153.6	152.9
65°	139.0	139.0	139.0	139.7	138.0	136.5	134.8	134.4	135.5	134.1	134.8
67.5°	116.3	115.2	114.5	114.9	114.1	113.4	113.1	114.1	116.3	116.3	118.1
70°	96.7	94.6	93.2	93.2	93.2	93.5	94.6	96.7	100.3	101.7	104.2
72.5°	80.7	76.1	74.0	74.0	74.3	75.7	78.9	82.9	86.1	88.9	92.1
75°	65.4	60.8	57.6	57.2	58.0	60.1	64.7	68.3	73.6	77.5	81.4
77.5°	53.0	47.3	43.4	43.0	44.1	47.3	53.0	57.6	63.6	67.9	72.2
80°	42.3	35.9	32.7	30.6	32.4	36.3	42.7	48.4	54.0	59.7	65.1
82.5°	33.8	27.7	22.8	20.6	22.8	28.1	34.1	40.9	46.6	52.6	58.0
85°	26.7	20.3	14.6	12.4	14.9	20.6	27.4	34.1	40.5	46.6	51.9
87.5°	21.0	14.6	8.9	6.0	9.2	15.3	21.7	28.4	35.2	41.2	46.6
90°	16.4	10.3	5.0	0.7	5.3	11.0	17.4	23.8	30.6	36.6	42.0
92.5°	13.9	7.8	2.8	0.0	3.2	8.2	14.2	20.6	26.7	32.7	38.0
95°	11.7	6.4	2.1	0.0	2.1	6.4	11.7	17.4	23.5	29.5	34.8
97.5°	10.0	5.0	1.4	0.0	1.4	5.0	9.6	15.3	20.6	26.3	31.3
100°	8.5	4.3	1.1	0.0	1.1	3.9	8.2	13.2	18.5	23.8	28.4
102.5°	7.5	3.6	0.7	0.0	0.7	3.2	6.8	11.4	16.0	21.0	25.6
105°	6.4	2.8	0.7	0.0	0.4	2.5	5.7	10.0	14.2	18.8	23.1
107.5°	5.7	2.5	0.7	0.0	0.4	2.1	5.0	8.5	12.8	16.7	20.6
110°	5.0	2.1	0.7	0.0	0.4	1.4	4.3	7.5	11.0	14.9	18.8

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.3	1.8	0.4	0.0	0.0	1.1	3.6	6.4	9.6	13.5	16.7
115°	3.9	1.8	0.4	0.0	0.0	0.7	2.8	5.7	8.5	12.1	14.9
117.5°	3.6	1.4	0.4	0.0	0.4	0.7	2.5	5.0	7.5	10.3	13.5
120°	3.2	1.4	0.4	0.0	0.4	0.4	1.8	4.3	6.4	9.2	11.7
122.5°	2.8	1.4	0.4	0.0	0.4	0.4	1.4	3.6	5.7	8.2	10.3
125°	2.5	1.1	0.7	0.4	0.4	0.4	1.1	2.8	5.0	6.8	9.2
127.5°	2.5	1.1	0.7	0.4	0.4	0.4	0.7	2.5	3.9	6.0	8.2
130°	2.1	1.1	0.7	0.4	0.4	0.4	0.4	1.8	3.6	5.0	6.8
132.5°	1.8	1.1	0.7	0.4	0.4	0.4	0.4	1.1	2.5	4.3	5.7
135°	1.8	1.1	0.7	0.4	0.4	0.4	0.4	0.7	1.8	3.2	4.6
137.5°	1.4	0.7	0.7	0.4	0.4	0.4	0.4	0.4	1.4	2.5	3.6
140°	1.4	0.7	0.7	0.4	0.4	0.4	0.4	0.4	1.1	1.8	2.8
142.5°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.4	2.1
145°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.4
147.5°	1.1	1.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1
150°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
152.5°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
155°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
157.5°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
160°	1.1	0.7	0.7	0.4	0.7	0.4	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: P1213668

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	648.2	641.5	645.0	644.0	645.4	648.2	647.9	647.2	647.2	646.1	644.7
5°	646.1	639.7	642.9	641.1	642.9	645.4	645.0	644.0	644.7	642.9	641.1
7.5°	641.8	636.1	639.0	637.6	639.0	641.5	640.4	640.1	640.8	637.9	636.9
10°	636.9	630.5	633.7	631.9	633.7	635.4	634.7	633.3	634.7	631.9	630.8
12.5°	629.0	623.7	625.8	625.1	626.2	628.0	626.5	625.5	626.2	623.7	621.6
15°	620.5	615.2	616.9	615.9	616.6	618.7	616.2	615.9	615.2	612.7	612.0
17.5°	609.5	604.5	606.3	604.5	605.6	604.8	604.5	602.7	602.7	599.9	597.7
20°	596.0	591.7	590.6	589.2	590.6	589.2	587.1	585.6	585.3	582.4	580.7
22.5°	580.3	575.3	576.0	572.1	572.5	570.4	566.8	565.4	564.0	560.8	558.3
25°	561.5	556.5	552.9	550.4	547.2	546.9	542.3	538.7	538.4	534.4	534.1
27.5°	540.1	534.4	531.6	525.6	521.6	518.4	514.5	511.0	509.2	504.9	502.1
30°	515.6	509.2	502.1	497.8	491.8	489.3	482.5	478.3	476.8	472.2	470.1
32.5°	487.9	481.1	475.4	467.2	460.5	456.9	450.2	445.9	444.1	439.1	436.3
35°	457.6	450.2	443.4	435.6	430.3	424.2	416.0	411.8	407.9	406.1	403.9
37.5°	426.0	417.8	410.0	402.2	397.5	390.4	383.3	380.5	375.9	374.1	371.9
40°	393.3	385.1	377.6	370.2	364.8	358.4	352.0	351.0	346.0	344.2	342.8
42.5°	360.9	352.4	343.8	338.5	334.6	328.2	323.9	322.9	318.6	317.5	317.5
45°	331.8	321.1	314.0	309.4	306.2	300.8	297.3	296.6	293.0	292.3	292.3
47.5°	300.5	290.5	285.2	282.3	279.5	275.6	273.4	273.4	269.9	269.2	268.8
50°	271.3	262.1	258.2	255.3	255.0	252.1	250.3	249.6	249.6	247.1	247.5
52.5°	243.6	239.0	235.8	234.0	231.8	230.1	228.6	228.6	227.6	225.8	226.5
55°	218.0	212.6	213.0	211.6	210.5	209.4	209.8	207.7	207.3	205.9	206.9
57.5°	192.4	192.4	191.7	190.6	188.8	189.5	189.5	189.5	187.7	186.7	187.7
60°	170.7	171.7	170.0	171.0	170.3	170.7	170.0	170.0	168.9	168.5	168.9
62.5°	151.5	153.3	152.5	154.0	153.3	153.6	154.3	152.9	152.2	151.5	152.2
65°	134.4	136.5	136.2	137.3	137.6	138.0	138.3	137.6	136.9	136.2	135.8
67.5°	119.5	121.6	123.0	123.4	123.7	124.8	124.5	123.7	123.0	122.0	121.6
70°	106.0	108.8	110.6	111.3	112.7	112.0	112.0	111.7	110.9	109.9	109.5
72.5°	94.6	97.8	99.6	100.3	101.7	101.7	101.3	101.0	100.3	99.2	98.9
75°	84.6	87.5	90.0	91.4	92.5	92.5	92.1	91.7	91.0	90.3	90.0
77.5°	76.8	79.3	81.4	83.2	83.9	84.3	83.9	83.2	83.2	82.9	82.5
80°	69.0	71.8	74.0	75.7	76.8	76.8	76.5	76.8	76.1	75.7	75.4
82.5°	62.2	65.4	67.9	69.7	70.4	70.8	70.4	70.8	70.1	70.1	70.1
85°	56.2	59.4	62.2	63.6	64.7	65.1	65.1	65.1	64.7	64.7	64.7
87.5°	51.2	54.4	57.2	58.7	59.7	60.1	60.1	60.4	59.7	59.7	59.7
90°	46.6	49.8	52.6	54.0	55.1	55.8	55.8	56.2	55.8	55.5	55.5
92.5°	42.3	45.9	48.7	50.1	51.2	52.3	52.3	52.6	51.9	51.9	51.9
95°	38.8	42.3	44.8	46.6	47.6	48.4	48.7	48.7	48.4	48.4	48.4
97.5°	35.6	38.8	41.2	43.0	44.1	44.4	44.8	45.2	44.8	44.8	44.8
100°	32.4	35.6	38.0	39.5	40.9	41.2	41.6	42.0	42.0	41.6	41.6
102.5°	29.5	32.7	34.8	36.6	37.7	38.4	38.8	38.8	38.8	38.8	38.8
105°	26.7	29.9	32.0	33.8	34.8	35.6	35.9	36.3	36.3	35.9	35.9
107.5°	24.2	27.0	29.5	30.9	32.4	33.1	33.4	33.4	33.8	33.4	33.4
110°	21.7	24.9	27.0	28.4	29.9	30.6	30.9	31.3	31.3	31.3	31.3

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	19.9	22.4	24.5	26.0	27.4	28.1	28.4	28.8	29.2	28.8	28.8
115°	17.8	20.3	22.4	23.8	24.9	25.6	26.3	26.7	26.7	27.0	26.7
117.5°	16.0	18.1	20.3	21.7	22.8	23.8	24.2	24.5	24.9	24.5	24.5
120°	14.2	16.4	18.1	19.6	20.6	21.7	22.0	22.4	22.8	22.4	22.4
122.5°	12.8	14.6	16.4	17.8	18.8	19.6	20.3	20.3	20.6	20.6	20.6
125°	11.4	13.2	14.6	16.0	17.1	17.8	18.1	18.5	18.5	18.8	18.8
127.5°	10.0	11.4	13.2	14.2	15.3	16.0	16.4	16.7	16.7	17.1	17.1
130°	8.5	10.0	11.4	12.4	13.5	14.2	14.6	14.9	15.3	15.3	15.3
132.5°	7.5	8.9	10.0	11.0	11.7	12.4	13.2	13.5	13.5	13.5	13.5
135°	6.0	7.5	8.5	9.6	10.3	11.0	11.4	12.1	12.1	12.1	12.1
137.5°	5.0	6.4	7.5	8.2	8.9	9.6	10.0	10.3	10.7	10.7	10.7
140°	3.9	5.0	6.0	7.1	7.8	8.2	8.9	8.9	9.2	9.2	9.2
142.5°	2.8	3.9	4.6	5.7	6.4	7.1	7.5	7.8	7.8	7.8	7.8
145°	2.1	2.8	3.6	4.3	5.3	5.7	6.0	6.4	6.8	6.8	6.8
147.5°	1.4	2.1	2.5	3.2	3.9	4.6	5.0	5.3	5.7	5.7	5.7
150°	1.1	1.4	2.1	2.5	2.8	3.6	4.3	4.3	4.6	4.6	4.3
152.5°	0.7	1.1	1.4	1.8	2.1	2.5	3.2	3.2	3.6	3.6	3.6
155°	0.7	0.7	0.7	1.1	1.4	1.8	2.1	2.5	2.5	2.5	2.5
157.5°	0.7	0.7	0.7	0.7	0.7	1.1	1.4	1.8	1.8	1.8	1.8
160°	0.7	0.7	0.4	0.4	0.7	0.7	0.7	0.7	1.1	1.1	1.1
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

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	645.7	646.5	646.5	645.7	645.4	646.8	645.0	638.3	640.4	641.1	643.3
5°	642.5	643.3	643.3	643.3	642.5	644.0	642.2	635.4	637.9	639.0	640.4
7.5°	637.9	638.3	639.0	638.6	637.9	640.1	638.3	631.5	633.3	635.1	636.9
10°	631.9	631.9	632.2	632.9	632.2	634.0	632.2	626.2	628.0	629.0	631.2
12.5°	623.7	624.4	624.8	624.4	624.1	625.5	624.8	619.1	619.8	621.9	624.1
15°	612.7	612.7	614.4	613.7	613.7	615.2	615.9	609.5	610.5	613.7	615.9
17.5°	599.2	599.5	600.9	601.6	601.3	603.8	604.1	599.2	598.8	602.7	604.8
20°	581.7	582.4	584.2	585.6	585.6	588.5	589.6	586.4	586.7	591.0	591.7
22.5°	560.4	560.4	563.6	565.7	567.5	569.3	572.5	569.6	569.6	575.3	578.5
25°	534.1	536.6	537.6	541.9	544.4	549.4	552.2	552.6	552.9	558.3	560.4
27.5°	504.9	505.6	508.8	513.8	516.7	521.3	526.6	527.7	529.5	536.6	539.8
30°	471.9	474.0	475.4	482.5	486.4	492.5	499.2	501.7	503.2	512.8	516.7
32.5°	438.1	438.8	444.8	448.7	453.4	459.8	467.6	472.2	475.1	485.0	490.7
35°	404.3	405.7	410.7	415.7	420.3	426.7	434.9	441.3	446.3	455.1	462.6
37.5°	373.4	376.9	378.0	383.0	386.5	392.9	398.6	407.9	412.8	422.1	431.7
40°	345.6	346.7	347.4	352.4	354.9	360.9	369.1	375.1	381.9	388.7	400.0
42.5°	318.2	319.0	320.0	322.9	325.7	330.0	336.0	342.1	349.2	359.1	366.6
45°	293.0	293.7	294.4	296.2	298.7	302.6	306.5	310.8	317.9	326.4	334.2
47.5°	269.5	271.0	271.0	271.3	273.1	276.3	279.1	284.5	288.4	293.0	301.9
50°	247.1	248.2	248.6	248.6	249.6	251.8	252.5	256.0	259.6	263.8	270.2
52.5°	226.2	226.2	225.8	227.2	227.2	228.6	229.0	231.1	233.6	238.2	241.1
55°	206.2	206.2	207.3	206.6	206.6	207.3	206.9	207.3	209.4	212.3	214.8
57.5°	187.0	186.7	187.7	187.0	186.7	187.4	188.1	186.7	187.0	189.9	189.9
60°	167.8	168.2	169.3	168.5	168.5	168.5	167.8	167.1	166.4	168.2	168.9
62.5°	152.5	151.5	152.5	151.5	152.2	151.8	151.1	149.7	150.1	149.3	148.6
65°	136.5	136.5	136.9	135.8	136.5	136.5	135.5	135.1	133.0	132.3	130.5
67.5°	122.7	122.7	123.0	122.3	122.3	122.7	121.6	120.5	118.4	117.3	114.9
70°	110.6	110.6	110.6	110.2	110.2	110.2	109.5	108.1	106.0	104.2	101.0
72.5°	99.6	99.9	99.6	99.6	100.6	99.6	98.5	97.1	95.3	91.7	88.9
75°	90.7	91.0	90.7	90.7	90.7	90.3	90.0	87.8	85.7	82.9	78.6
77.5°	82.9	82.9	83.2	82.9	82.9	82.5	81.4	79.7	77.2	74.7	69.7
80°	75.4	75.7	76.1	76.5	75.7	75.4	74.3	72.9	69.7	66.8	61.9
82.5°	70.1	69.7	70.1	70.4	69.7	69.3	68.3	66.5	64.0	60.1	55.1
85°	64.7	64.4	64.4	64.7	64.4	63.6	62.6	60.8	58.3	54.4	49.4
87.5°	59.4	59.7	60.1	59.7	59.4	58.7	57.6	55.8	53.0	49.8	44.4
90°	55.5	55.5	55.5	55.5	55.1	54.4	53.3	51.2	48.7	44.8	40.2
92.5°	51.9	51.9	51.9	51.9	51.6	50.5	49.4	47.6	44.8	40.9	36.6
95°	48.4	48.7	48.4	48.4	47.6	47.3	45.5	43.7	41.2	37.3	32.7
97.5°	44.4	44.8	44.4	44.4	44.1	43.4	42.3	40.2	37.7	34.1	29.9
100°	41.6	41.6	41.2	41.2	40.9	40.2	38.8	37.0	34.5	30.9	26.7
102.5°	38.4	38.8	38.4	38.4	37.7	37.0	35.9	34.1	31.6	28.1	24.2
105°	35.9	35.9	35.6	35.6	34.8	34.1	33.1	30.9	28.8	25.6	21.7
107.5°	33.4	33.4	33.1	33.1	32.4	31.6	30.2	28.4	26.3	23.1	19.6
110°	30.9	30.9	30.9	30.6	29.9	28.8	27.7	26.0	23.8	21.0	17.4



TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	29.2	28.8	28.4	28.1	27.4	26.7	25.2	23.5	21.3	18.8	15.6
115°	26.7	26.7	26.3	26.0	25.2	24.2	23.1	21.7	19.6	16.7	13.9
117.5°	24.5	24.5	24.2	23.8	23.1	22.0	21.0	19.6	17.4	14.9	12.4
120°	22.4	22.4	22.0	21.7	21.0	19.9	19.2	17.4	15.6	13.2	11.0
122.5°	20.6	20.3	20.3	19.6	19.2	18.1	17.1	15.6	13.9	11.7	9.6
125°	18.5	18.5	18.1	17.8	17.4	16.4	15.3	13.9	12.1	10.3	8.5
127.5°	16.7	16.7	16.4	16.0	15.6	14.6	13.5	12.4	10.7	8.9	7.1
130°	14.9	14.9	14.6	14.2	13.9	12.8	12.1	10.7	9.2	7.8	6.0
132.5°	13.5	13.5	13.2	12.8	12.1	11.4	10.7	9.2	8.2	6.8	5.3
135°	12.1	11.7	11.7	11.4	10.7	10.0	9.2	8.2	6.8	5.7	4.3
137.5°	10.7	10.3	10.0	9.6	9.2	8.5	7.8	7.1	6.0	4.6	3.6
140°	9.2	8.9	8.9	8.5	7.8	7.5	6.8	5.7	5.0	3.9	2.8
142.5°	7.8	7.8	7.5	7.1	6.8	6.4	5.7	5.0	3.9	3.2	2.1
145°	6.8	6.4	6.4	6.0	5.7	5.0	4.6	3.9	3.2	2.5	1.8
147.5°	5.3	5.3	5.3	5.0	4.6	4.3	3.9	3.2	2.5	1.8	1.1
150°	4.3	4.3	4.3	3.9	3.6	3.2	2.8	2.5	1.8	1.1	0.7
152.5°	3.6	3.6	3.2	3.2	2.8	2.5	2.1	1.8	1.1	0.7	0.7
155°	2.5	2.5	2.5	2.1	2.1	1.8	1.4	1.1	0.7	0.7	0.7
157.5°	1.8	1.8	1.8	1.4	1.4	1.1	1.1	0.7	0.7	0.7	0.7
160°	1.1	1.1	1.1	1.1	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: P1213668

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	642.2	641.8	644.7	644.7	641.5	646.5	651.8
5°	640.1	639.7	642.5	642.5	639.7	644.7	650.4
7.5°	635.8	636.1	639.0	639.7	636.1	640.8	646.8
10°	631.2	630.8	634.0	634.7	631.9	636.1	641.8
12.5°	623.7	623.7	626.9	628.0	625.1	630.1	635.4
15°	615.9	615.9	618.0	619.8	617.3	621.9	627.3
17.5°	605.9	605.6	607.7	609.8	607.3	612.3	618.0
20°	593.1	593.1	595.6	598.1	596.3	600.9	607.3
22.5°	579.6	578.2	582.4	584.2	583.2	587.8	594.2
25°	562.5	562.2	566.4	568.9	567.5	572.5	578.2
27.5°	544.0	543.7	548.0	551.2	550.4	555.1	561.5
30°	521.6	523.4	527.3	532.7	530.9	535.9	542.6
32.5°	498.2	500.0	504.6	510.3	510.6	514.5	521.3
35°	470.1	474.7	477.9	485.4	486.8	490.7	497.8
37.5°	440.6	445.9	452.7	458.3	461.2	464.4	472.6
40°	407.5	415.3	422.8	429.5	433.1	436.3	444.1
42.5°	377.6	383.7	390.8	397.5	403.9	406.8	415.0
45°	343.8	351.0	357.4	365.5	371.9	375.1	383.3
47.5°	310.8	317.9	326.4	332.1	338.9	342.1	349.9
50°	279.1	285.5	292.6	299.4	305.1	307.9	314.7
52.5°	247.8	254.6	261.4	265.6	271.7	273.8	279.5
55°	220.1	224.7	230.8	233.3	239.3	240.7	244.6
57.5°	193.4	196.6	198.8	203.0	207.3	210.5	215.1
60°	169.3	170.7	172.1	174.6	178.1	179.2	181.0
62.5°	147.6	147.2	150.1	150.8	151.1	154.7	152.9
65°	128.4	128.7	126.2	125.2	126.6	127.7	126.9
67.5°	112.4	110.2	108.1	105.6	103.5	104.5	103.5
70°	96.7	94.9	91.4	87.8	86.4	84.3	83.2
72.5°	84.3	80.0	76.5	71.8	69.3	66.8	65.1
75°	74.7	68.6	63.6	58.7	55.1	51.6	50.8
77.5°	64.7	59.0	53.3	48.0	42.7	38.8	37.3
80°	56.9	51.6	44.8	38.4	32.7	27.7	26.0
82.5°	49.8	44.1	37.3	30.6	24.2	18.8	16.7
85°	43.7	37.7	30.9	24.2	17.8	12.1	9.2
87.5°	39.1	32.4	25.6	19.2	12.4	6.8	3.6
90°	34.8	28.4	22.0	15.3	8.9	3.6	0.0
92.5°	30.9	24.9	18.5	12.4	6.8	2.1	0.4
95°	27.4	22.0	15.6	10.0	5.0	1.4	0.4
97.5°	24.5	19.2	13.5	8.2	3.9	1.1	0.4
100°	22.0	16.7	11.7	6.8	3.2	0.7	0.4
102.5°	19.6	14.9	10.0	5.7	2.5	0.4	0.4
105°	17.4	13.2	8.5	5.0	2.1	0.4	0.4
107.5°	15.6	11.7	7.5	4.3	1.4	0.4	0.4
110°	13.9	10.0	6.4	3.6	1.1	0.4	0.4

TEST NUMBER: P1213668

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	12.4	8.9	5.7	2.8	0.7	0.4	0.4
115°	11.0	7.8	5.0	2.5	0.7	0.4	0.4
117.5°	9.6	6.8	4.3	1.8	0.4	0.4	0.4
120°	8.5	6.0	3.6	1.4	0.4	0.4	0.4
122.5°	7.5	5.0	2.8	1.1	0.4	0.4	0.4
125°	6.4	4.3	2.5	0.7	0.4	0.4	0.4
127.5°	5.3	3.6	1.8	0.7	0.4	0.4	0.4
130°	4.6	2.8	1.4	0.4	0.4	0.4	0.4
132.5°	3.9	2.1	1.1	0.4	0.4	0.4	0.4
135°	3.2	1.8	0.7	0.4	0.4	0.4	0.4
137.5°	2.5	1.4	0.7	0.4	0.4	0.4	0.4
140°	1.8	1.1	0.4	0.4	0.4	0.4	0.4
142.5°	1.4	0.7	0.4	0.4	0.4	0.4	0.4
145°	1.1	0.7	0.4	0.4	0.4	0.4	0.4
147.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4
150°	0.7	0.7	0.4	0.4	0.7	0.4	0.4
152.5°	0.7	0.4	0.4	0.4	0.7	0.4	0.4
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.4
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)