

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: P1213678

Luminaire Tested: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213678
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-LD5-22SL-LN-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

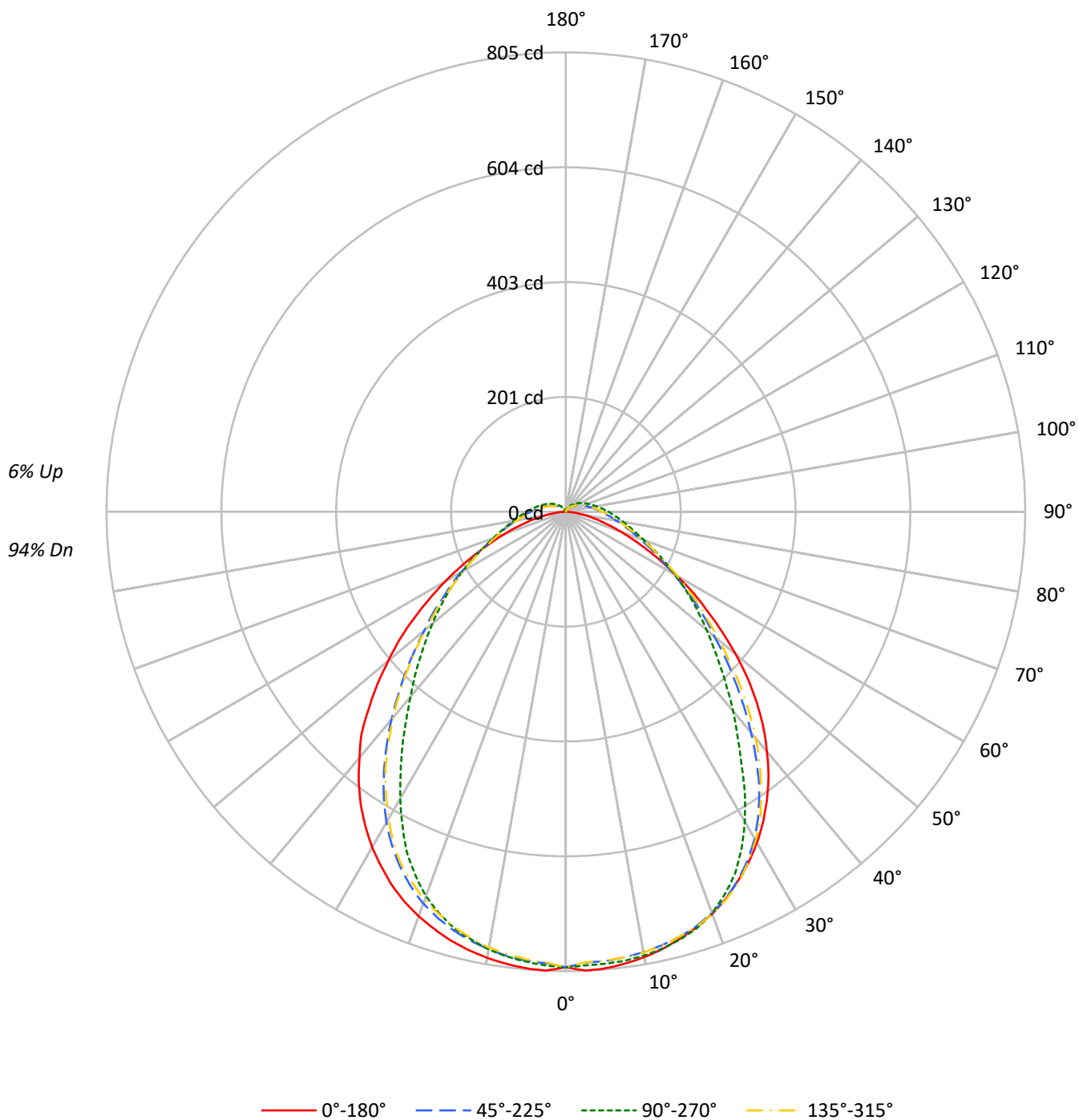
Lumens per Lamp: N/A
Luminaire Lumens: 2020.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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°	12901	12901	12901	12901
5°	12957	12489	12957	12434
10°	12864	12157	12885	11989
15°	12746	11795	12803	11487
20°	12611	11328	12685	10850
25°	12370	10634	12507	10007
30°	12068	9617	12227	8902
35°	11620	8368	11843	7793
40°	10994	7319	11284	6790
45°	10182	6362	10513	5998
50°	9094	5590	9494	5309
55°	7815	4936	8381	4687
60°	6519	4335	7108	4084
65°	5284	3833	5817	3553
70°	4142	3401	4638	3145
75°	3180	3139	3580	2890
80°	2206	3031	2597	2769
85°	1233	3046	1666	2801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 10513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.7
10°-20°	217.0	10.7
20°-30°	321.6	15.9
30°-40°	357.3	17.7
40°-50°	323.9	16.0
50°-60°	251.0	12.4
60°-70°	170.4	8.4
70°-80°	108.4	5.4
80°-90°	69.3	3.4
90°-100°	46.7	2.3
100°-110°	32.0	1.6
110°-120°	21.4	1.1
120°-130°	13.3	0.7
130°-140°	7.3	0.4
140°-150°	3.4	0.2
150°-160°	1.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	614.2	30.4
0°-40°	971.5	48.1
0°-60°	1546.3	76.6
0°-90°	1894.5	93.8
90°-120°	100.1	5.0
90°-150°	124.2	6.1
90°-180°	126.0	6.2
0°-180°	2020.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	803	795	803	792	803	76
15°	774	776	778	756	774	219
25°	714	701	722	659	714	329
35°	615	536	626	499	615	383
45°	473	383	489	361	473	363
55°	302	269	324	256	302	272
65°	157	181	172	168	157	157
75°	63	121	71	111	63	68
85°	11	87	15	80	11	14
90°	0	75	1	68	0	1
95°	0	64	0	60	0	0
105°	0	47	0	44	0	0
115°	0	36	0	33	0	0
125°	0	26	0	23	0	0
135°	0	18	0	15	0	0
145°	0	12	0	8	0	0
155°	0	7	0	3	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°	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	804.8	803.9	803.0	801.7	803.0	806.5	804.3	799.5	798.6	790.7	794.2
5°	803.0	801.7	800.8	799.5	801.3	805.7	803.5	799.1	797.7	790.3	794.2
7.5°	798.6	797.7	796.4	796.4	798.2	802.6	800.8	796.0	795.1	787.6	792.0
10°	792.5	792.0	791.2	791.2	792.9	798.2	796.0	791.6	790.7	783.7	788.5
12.5°	784.6	785.0	783.7	783.7	786.3	791.6	789.8	785.0	784.1	778.0	782.8
15°	774.5	774.9	774.0	774.5	777.1	783.3	781.1	776.7	775.8	771.0	774.9
17.5°	763.1	763.5	763.5	763.1	766.1	772.3	770.5	766.6	765.3	761.3	766.1
20°	749.9	749.9	749.9	749.9	753.4	759.6	757.4	754.3	751.6	748.6	752.5
22.5°	733.6	733.2	733.6	735.0	738.5	743.3	742.0	738.5	734.5	732.8	735.8
25°	713.9	715.2	715.6	717.0	721.4	725.3	724.0	720.5	714.3	713.0	713.9
27.5°	693.3	694.1	695.4	695.0	701.2	705.1	702.5	699.4	690.6	689.3	688.4
30°	670.0	671.3	672.2	671.7	676.6	681.0	678.3	674.4	662.5	661.6	654.6
32.5°	643.6	645.0	645.8	645.8	652.9	654.6	649.8	644.1	631.3	628.3	622.1
35°	614.7	616.0	616.4	616.4	623.4	623.0	616.9	609.0	594.9	591.0	580.4
37.5°	583.5	584.4	584.8	587.4	590.5	587.9	580.0	569.9	559.3	548.4	537.0
40°	548.4	549.7	550.6	552.3	555.4	552.3	540.9	528.6	517.2	504.9	493.5
42.5°	512.4	516.3	515.4	515.0	516.8	508.4	499.6	485.6	474.2	461.4	450.0
45°	473.3	472.9	475.0	475.9	475.5	468.5	456.2	443.4	432.0	418.9	409.2
47.5°	432.0	431.6	433.3	434.2	431.6	424.1	414.5	400.0	390.3	378.9	371.4
50°	388.6	388.6	391.2	388.6	387.2	379.8	371.9	357.4	349.9	339.8	335.4
52.5°	345.1	349.0	346.4	345.5	344.2	336.7	330.6	318.7	312.6	308.2	302.9
55°	302.1	306.5	304.7	303.4	302.9	296.8	291.1	282.3	278.4	275.3	272.2
57.5°	265.6	265.2	264.3	263.0	263.4	258.6	252.9	248.1	246.3	245.0	245.9
60°	223.5	227.0	225.7	226.1	226.5	225.7	220.8	217.8	218.2	218.6	220.0
62.5°	188.8	191.9	194.1	192.3	193.2	194.5	191.9	191.0	192.7	194.5	196.3
65°	156.7	159.8	162.0	161.6	164.2	166.8	166.4	167.3	171.2	173.4	175.6
67.5°	127.8	130.8	133.9	134.3	138.3	142.3	144.0	147.1	151.5	154.5	157.2
70°	102.7	105.4	108.9	111.1	116.3	121.6	124.7	130.8	133.5	137.9	139.6
72.5°	80.3	82.5	87.4	92.6	97.0	103.6	109.8	115.0	119.0	123.8	126.0
75°	62.8	63.7	68.9	75.1	81.2	88.7	95.3	101.0	106.2	111.1	114.6
77.5°	46.1	47.4	52.2	60.6	67.6	75.5	83.0	89.1	94.8	99.7	104.5
80°	32.1	34.7	40.0	48.3	56.2	65.0	72.0	79.0	85.2	90.0	94.8
82.5°	20.6	22.8	30.3	38.6	47.0	55.8	63.2	70.2	76.8	82.1	86.5
85°	11.4	14.5	22.0	30.7	39.1	47.9	55.8	62.8	69.4	74.2	78.6
87.5°	4.4	8.8	15.8	24.1	32.5	40.8	49.2	55.8	62.3	67.6	71.6
90°	0.0	5.3	11.9	20.2	28.5	36.9	44.8	51.8	58.0	62.8	67.2
92.5°	0.4	3.5	9.2	16.2	24.1	32.1	39.5	46.5	52.7	57.5	61.5
95°	0.4	2.6	7.5	14.0	21.1	28.5	35.6	42.1	47.9	52.7	56.6
97.5°	0.4	1.8	6.1	12.3	18.4	25.9	32.5	38.6	43.9	48.7	51.8
100°	0.4	1.8	5.3	10.5	16.7	23.3	29.4	35.6	40.4	44.3	47.9
102.5°	0.4	1.3	4.4	9.2	14.9	20.6	26.8	32.5	36.9	40.8	44.3
105°	0.4	1.3	4.0	7.9	13.2	18.9	24.1	29.4	34.2	37.8	40.8
107.5°	0.4	0.9	3.5	6.6	11.4	17.1	22.4	26.8	31.2	34.7	37.8
110°	0.4	0.9	3.1	6.1	10.1	15.4	20.2	24.6	28.5	32.1	34.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.9	2.6	5.7	9.2	13.6	18.4	22.4	26.3	29.4	32.1
115°	0.4	0.9	2.6	5.3	8.3	11.9	16.2	20.6	23.7	27.2	29.4
117.5°	0.4	0.9	2.2	4.4	7.9	11.0	14.9	18.4	22.0	25.0	27.2
120°	0.4	0.9	2.2	4.0	7.0	10.1	13.2	16.7	20.2	22.4	24.6
122.5°	0.4	0.9	1.8	4.0	6.1	9.2	11.9	14.9	18.0	20.6	22.8
125°	0.4	0.9	1.8	3.5	5.7	8.3	11.0	13.2	16.2	18.4	20.6
127.5°	0.4	0.9	1.8	3.1	5.3	7.5	10.1	12.3	14.5	16.7	18.4
130°	0.4	0.9	1.3	2.6	4.8	6.6	8.8	11.4	13.2	14.9	16.7
132.5°	0.4	0.9	1.3	2.6	4.0	5.7	7.9	10.1	11.9	13.6	14.9
135°	0.4	0.9	1.3	2.2	3.5	5.3	6.6	8.8	10.5	12.3	13.6
137.5°	0.4	0.9	1.3	2.2	3.1	4.4	5.7	7.5	9.2	10.5	12.3
140°	0.4	0.9	1.3	1.8	2.6	4.0	5.3	6.1	7.9	9.2	10.5
142.5°	0.4	0.9	1.3	1.8	2.6	3.5	4.4	5.3	6.6	7.9	9.2
145°	0.4	0.9	1.3	1.8	2.2	3.1	4.0	4.8	5.3	6.6	7.5
147.5°	0.4	0.9	1.3	1.8	1.8	2.6	3.5	4.0	4.8	5.3	6.1
150°	0.4	0.9	1.3	1.3	1.8	2.2	3.1	3.5	4.0	4.8	5.3
152.5°	0.4	0.9	1.3	1.3	1.8	2.2	2.6	3.1	3.5	4.0	4.4
155°	0.4	0.9	1.3	1.3	1.3	1.8	2.2	2.6	3.1	3.5	4.0
157.5°	0.9	0.9	0.9	1.3	1.3	1.8	1.8	2.2	2.6	2.6	3.1
160°	0.9	0.9	0.9	1.3	1.3	1.3	1.8	1.8	2.2	2.2	2.6
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	793.4	794.7	798.6	798.6	797.7	796.9	796.9	795.6	796.4	798.2	797.3
5°	793.4	794.7	798.6	798.6	797.7	796.9	796.4	795.1	796.4	798.2	797.3
7.5°	790.7	792.5	796.4	796.4	795.6	795.1	794.2	793.4	794.7	796.4	795.6
10°	787.2	789.0	792.9	792.9	792.0	792.0	790.7	789.8	791.6	792.9	792.5
12.5°	781.9	784.1	787.6	787.2	786.3	786.8	785.5	783.7	785.5	786.8	787.2
15°	774.5	777.1	780.6	779.7	778.4	779.3	777.1	775.8	777.1	779.7	779.3
17.5°	764.8	766.6	769.2	769.2	767.9	767.0	766.1	764.8	765.7	767.5	767.9
20°	751.2	753.4	754.7	753.4	753.0	751.6	749.9	748.6	750.3	753.0	753.4
22.5°	733.2	733.6	736.7	733.6	731.5	731.0	729.3	726.6	729.3	731.5	731.9
25°	710.8	713.0	711.7	706.4	706.4	702.9	702.0	700.7	701.2	705.1	706.9
27.5°	682.3	683.2	679.6	675.3	671.3	669.1	666.0	666.5	666.5	671.7	673.5
30°	651.1	646.3	643.2	636.2	633.1	627.8	627.0	627.0	626.1	628.7	636.6
32.5°	613.8	607.2	602.4	595.8	590.5	585.2	582.6	583.9	583.5	590.1	592.7
35°	573.0	569.0	558.9	550.6	547.5	539.6	539.6	535.6	538.3	545.7	548.8
37.5°	529.9	523.8	515.4	506.2	504.0	497.9	495.7	493.5	499.2	500.5	503.6
40°	486.0	480.3	472.4	463.6	463.6	456.2	456.2	456.2	456.6	459.2	465.0
42.5°	444.3	438.2	431.1	425.0	424.1	418.4	418.4	418.0	418.9	421.0	426.3
45°	403.9	399.1	391.6	388.6	389.0	382.8	384.2	382.8	384.6	386.8	388.6
47.5°	366.6	363.5	360.5	356.1	354.7	354.3	352.1	350.4	353.4	353.4	356.1
50°	331.9	330.2	328.4	325.8	326.2	324.5	321.8	321.8	324.0	324.5	326.2
52.5°	301.6	299.4	297.2	297.7	298.1	297.2	295.9	294.6	295.9	296.8	299.0
55°	271.3	269.6	271.8	270.9	271.8	270.9	270.0	269.1	271.3	270.0	272.2
57.5°	244.1	245.9	246.7	245.0	246.3	245.4	245.9	244.5	246.3	247.2	246.7
60°	219.1	221.7	220.4	220.8	222.6	221.7	220.0	221.3	223.0	223.5	223.0
62.5°	196.3	199.3	200.6	199.8	200.2	199.3	200.6	198.9	201.1	202.0	200.6
65°	175.6	179.1	180.0	180.0	180.0	179.1	180.4	180.9	181.8	181.8	180.9
67.5°	158.1	161.1	162.0	162.9	162.0	161.1	161.1	161.6	163.3	164.2	163.3
70°	142.3	145.3	145.8	145.8	146.2	147.1	145.3	146.2	147.5	148.0	147.5
72.5°	128.6	131.7	132.6	132.2	132.6	133.0	133.0	132.2	133.5	134.3	134.3
75°	117.7	119.4	120.3	120.3	120.7	121.2	121.2	120.7	121.6	122.1	122.5
77.5°	107.6	108.9	110.2	110.2	110.6	110.2	111.1	111.1	111.5	112.0	112.4
80°	97.5	99.2	100.1	100.5	101.4	101.9	101.9	101.9	102.3	102.7	102.7
82.5°	89.6	90.9	92.2	93.5	93.5	94.0	94.0	94.0	94.4	94.4	94.8
85°	81.7	83.4	84.7	85.6	86.1	86.5	86.5	86.9	86.9	86.9	87.4
87.5°	74.6	76.8	77.7	78.6	79.0	79.9	79.9	79.9	80.3	80.3	80.3
90°	69.8	72.0	72.9	73.8	74.2	74.6	74.6	75.1	75.1	75.5	75.5
92.5°	64.1	66.3	68.1	68.1	68.5	69.4	68.9	68.9	69.4	69.8	69.8
95°	59.7	61.5	62.8	63.2	63.7	63.7	63.7	64.1	63.7	64.1	64.1
97.5°	54.4	56.2	57.5	58.4	58.8	58.8	58.8	59.3	58.8	59.3	59.3
100°	50.1	51.8	53.1	53.6	54.4	54.4	54.4	54.4	54.4	54.4	54.9
102.5°	46.5	48.3	49.2	49.6	50.1	50.5	50.5	50.5	50.5	50.9	50.9
105°	43.0	44.8	45.7	46.1	46.5	47.0	47.0	47.0	47.4	47.4	47.0
107.5°	40.0	41.3	42.1	43.0	43.5	43.5	43.9	43.9	43.9	43.9	43.9
110°	36.9	38.2	39.5	40.4	40.4	40.8	40.8	41.3	41.3	40.8	41.3

TEST NUMBER: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	33.8	35.6	36.4	37.3	37.8	38.2	38.2	38.2	38.2	38.2	38.2
115°	31.2	32.9	33.8	34.7	35.1	35.6	35.6	35.6	35.6	35.6	35.6
117.5°	29.0	30.7	31.6	32.1	32.5	32.9	33.4	33.4	33.4	33.4	32.9
120°	26.8	28.1	29.0	29.9	30.3	30.7	30.7	30.7	30.7	30.7	30.7
122.5°	24.6	25.9	26.8	27.7	28.1	28.5	28.5	28.5	28.5	28.5	28.5
125°	22.4	23.7	24.6	25.5	25.9	26.3	26.3	26.3	26.3	26.3	26.3
127.5°	20.2	21.5	22.8	23.3	23.7	24.1	24.1	24.1	24.6	24.1	24.1
130°	18.0	19.3	20.6	21.1	21.5	22.0	22.4	22.4	22.4	22.4	22.0
132.5°	16.2	17.6	18.4	18.9	19.8	19.8	20.2	20.2	20.2	20.2	19.8
135°	14.9	15.8	16.7	17.1	18.0	18.0	18.0	18.4	18.4	18.0	17.6
137.5°	13.2	14.0	14.9	15.4	15.8	16.2	16.2	16.7	16.2	16.2	16.2
140°	12.3	12.7	13.6	14.0	14.5	14.5	14.5	14.9	14.9	14.5	14.5
142.5°	10.5	11.4	12.3	12.7	13.2	13.2	13.2	13.2	13.2	13.2	13.2
145°	8.8	10.1	10.5	11.4	11.4	11.9	11.9	11.9	11.9	11.9	11.4
147.5°	7.5	8.3	9.7	10.1	10.1	10.5	10.5	10.5	10.5	10.5	10.1
150°	5.7	6.6	7.9	8.8	8.8	9.2	9.2	9.2	9.2	8.8	8.8
152.5°	4.8	5.7	6.1	7.0	7.5	7.5	7.5	7.9	7.5	7.5	7.5
155°	4.4	4.8	5.3	5.7	6.1	6.6	6.6	6.6	6.6	6.1	6.1
157.5°	3.5	4.0	4.4	4.8	5.3	5.7	5.7	5.7	5.7	5.7	5.3
160°	2.6	3.1	3.5	3.5	4.0	4.4	4.8	4.4	4.4	4.4	4.4
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: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	796.4	796.0	797.3	795.1	788.5	790.3	789.4	793.4	794.2	795.1	799.1
5°	796.4	796.0	796.9	795.1	788.1	789.4	788.5	792.5	793.4	793.8	797.7
7.5°	794.7	794.2	795.6	793.4	785.9	787.6	786.3	790.3	790.7	791.2	794.7
10°	791.2	790.7	791.6	789.8	782.4	784.1	782.4	786.3	786.3	787.2	789.8
12.5°	785.9	785.0	786.8	784.6	776.2	778.4	777.6	780.2	780.6	781.1	783.7
15°	778.4	777.6	778.9	777.6	770.1	770.5	769.2	773.2	773.6	772.7	775.4
17.5°	767.5	766.6	769.2	768.3	760.9	762.6	762.2	763.1	764.4	762.2	765.7
20°	753.8	754.7	755.6	756.0	750.3	750.3	749.9	751.6	753.0	751.2	753.8
22.5°	733.6	735.8	738.5	739.4	735.4	735.0	737.6	736.7	738.0	737.2	738.9
25°	708.2	712.6	715.2	717.8	715.6	716.5	720.5	721.4	721.4	720.9	722.7
27.5°	676.6	682.3	687.1	692.8	690.6	692.4	699.0	699.8	701.6	699.8	703.4
30°	638.8	644.1	653.3	661.6	662.5	665.2	674.4	675.3	680.1	678.3	679.6
32.5°	601.1	603.7	614.2	622.6	627.8	634.4	644.5	646.3	652.9	654.2	654.2
35°	553.6	561.1	570.8	582.6	589.2	596.2	609.8	612.5	622.1	625.2	628.7
37.5°	513.7	520.7	526.9	539.1	551.0	558.9	569.9	576.5	586.6	592.3	596.7
40°	471.1	476.8	483.4	495.7	505.8	517.6	528.6	536.5	549.2	555.8	561.5
42.5°	430.7	435.1	442.1	450.9	461.4	474.6	485.1	494.4	508.0	517.2	523.8
45°	394.7	397.3	403.5	410.1	419.3	432.9	443.0	454.9	465.8	475.5	483.4
47.5°	360.9	364.4	367.5	371.9	380.2	388.6	400.4	411.8	422.8	433.3	441.2
50°	329.7	329.7	334.6	337.6	343.3	350.8	360.0	367.9	381.5	389.0	399.1
52.5°	299.4	301.2	303.8	305.6	310.0	314.8	322.3	328.8	340.3	347.3	356.9
55°	272.6	274.4	275.7	276.6	279.2	284.9	287.6	292.8	300.7	306.5	314.8
57.5°	247.2	248.1	249.4	249.8	250.3	253.8	256.0	257.3	265.2	270.9	277.9
60°	223.9	223.9	225.2	224.8	224.4	226.1	225.7	227.0	231.8	235.3	238.4
62.5°	202.0	202.0	202.4	201.5	201.1	201.1	199.3	200.6	202.0	202.4	204.6
65°	181.8	184.0	182.2	182.6	180.0	179.1	178.3	175.6	175.2	173.4	174.3
67.5°	163.8	165.5	163.8	163.8	161.6	159.8	157.6	153.2	151.9	148.4	147.5
70°	149.3	148.0	148.8	147.5	144.9	142.7	139.6	136.1	131.7	127.3	124.3
72.5°	135.2	135.2	134.3	133.0	131.7	127.3	123.8	119.9	114.6	108.9	104.5
75°	121.6	122.1	122.1	120.7	118.5	114.6	110.6	104.9	99.2	92.6	86.9
77.5°	112.0	112.0	112.0	109.8	107.6	104.1	99.2	93.1	86.9	79.0	72.4
80°	102.7	102.3	102.3	99.7	97.5	93.5	88.7	82.5	76.0	67.6	60.1
82.5°	95.3	94.8	94.0	91.8	88.7	84.7	79.9	73.3	66.3	58.8	49.6
85°	87.4	86.9	86.1	83.9	80.8	77.3	72.0	65.4	58.4	50.1	41.3
87.5°	80.3	79.9	78.6	77.3	73.8	69.8	64.5	58.4	50.9	43.0	34.2
90°	75.5	74.6	73.8	72.0	68.9	64.5	59.3	52.7	45.2	37.3	28.5
92.5°	69.8	69.4	68.1	66.3	63.7	59.3	54.0	47.9	40.4	32.9	24.6
95°	64.1	63.7	62.8	61.0	58.4	54.4	49.6	43.5	36.4	29.0	21.5
97.5°	58.8	58.8	57.5	56.2	53.1	50.1	45.2	39.5	32.9	26.3	19.3
100°	54.4	54.4	53.1	51.4	49.2	46.1	41.3	36.0	29.9	23.7	16.7
102.5°	50.5	50.1	49.2	47.4	45.2	42.1	37.8	32.9	27.2	21.1	14.9
105°	47.0	46.5	45.7	43.9	42.1	38.6	35.1	30.3	24.6	18.9	13.2
107.5°	43.5	43.0	42.6	40.8	38.6	35.6	32.1	27.2	22.4	17.1	11.9
110°	40.4	40.0	39.1	37.3	35.1	32.5	29.0	25.0	20.2	15.4	10.5

TEST NUMBER: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	37.8	37.3	36.4	34.7	32.9	29.9	26.8	22.4	18.4	14.0	9.2
115°	35.1	34.7	33.8	32.1	29.9	27.2	24.1	20.6	16.2	12.3	8.3
117.5°	32.5	32.1	31.2	29.9	27.7	25.0	22.0	18.4	14.5	11.4	7.5
120°	30.3	29.4	28.5	27.2	25.0	22.8	19.8	16.7	13.2	10.1	6.6
122.5°	28.1	27.2	26.3	25.0	22.8	20.6	17.6	14.9	12.3	9.2	6.1
125°	25.5	25.0	24.1	22.8	20.6	18.4	16.2	13.6	11.0	8.3	5.3
127.5°	23.3	22.8	22.0	20.2	18.4	16.7	14.5	12.3	9.7	7.0	4.8
130°	21.5	20.6	19.8	18.4	17.1	15.4	13.2	11.0	8.8	6.1	4.4
132.5°	19.3	18.4	17.6	16.7	15.4	13.6	11.9	9.7	7.9	5.7	4.0
135°	17.6	16.7	15.8	14.9	13.6	12.3	10.5	8.8	7.0	5.3	3.5
137.5°	15.4	14.9	14.5	13.6	12.3	11.0	9.7	7.5	6.1	4.8	3.1
140°	14.0	13.6	13.2	11.9	11.0	9.7	8.3	6.6	5.3	4.0	2.6
142.5°	12.7	12.3	11.4	10.5	9.7	8.8	7.0	6.1	4.8	3.5	2.6
145°	11.0	10.5	10.1	9.2	8.3	7.0	6.1	5.3	4.4	3.1	2.2
147.5°	10.1	9.7	8.8	7.9	7.0	6.1	5.7	4.8	3.5	2.6	1.8
150°	8.3	7.9	7.5	6.6	6.1	5.7	4.8	4.0	3.1	2.2	1.8
152.5°	7.0	6.6	6.1	6.1	5.3	4.8	4.0	3.5	2.6	2.2	1.3
155°	6.1	6.1	5.7	5.3	4.4	4.0	3.5	2.6	2.2	1.8	1.3
157.5°	5.3	4.8	4.4	4.4	4.0	3.5	2.6	2.2	1.8	1.8	1.3
160°	4.4	4.0	4.0	3.5	3.1	2.6	2.2	2.2	1.8	1.3	1.3
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: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	799.5	794.7	799.1	804.8	804.8	803.9	803.0	804.8	809.2	807.4	802.1
5°	798.2	793.4	797.3	803.0	803.0	801.7	800.8	802.1	807.0	804.8	799.9
7.5°	795.6	791.2	793.8	799.1	799.1	797.7	796.9	798.6	802.6	800.4	795.1
10°	790.7	785.9	789.0	793.8	793.4	792.5	791.2	793.4	796.9	793.8	787.6
12.5°	784.6	779.7	782.4	786.8	786.3	784.6	783.7	785.0	788.1	786.3	779.7
15°	776.2	771.4	773.6	778.0	776.7	775.4	773.6	774.0	778.0	774.9	767.9
17.5°	766.1	760.9	762.6	766.6	765.3	763.9	761.7	762.2	766.6	762.2	754.7
20°	753.8	748.1	749.5	754.3	752.1	749.9	747.7	747.7	752.1	747.3	738.9
22.5°	740.7	735.0	735.8	739.4	737.6	733.6	731.5	732.8	735.0	728.8	720.0
25°	724.4	717.0	718.3	721.8	720.5	715.2	713.0	713.9	713.0	708.2	699.0
27.5°	705.5	697.6	698.5	700.7	699.0	694.1	691.5	691.9	690.2	684.0	673.5
30°	681.8	677.9	677.4	678.8	676.1	671.3	668.2	667.4	666.9	658.1	645.4
32.5°	657.7	654.2	652.0	653.7	650.7	645.8	640.6	640.6	636.2	627.8	616.9
35°	633.1	627.4	625.2	626.5	623.0	616.9	612.5	610.3	603.7	593.2	581.3
37.5°	601.5	597.5	594.9	596.2	592.3	587.9	579.5	577.3	570.3	555.8	540.9
40°	567.2	564.2	561.5	562.9	558.5	551.9	544.4	540.9	533.0	516.8	504.9
42.5°	530.4	529.1	526.0	530.8	522.0	515.4	508.0	502.3	494.4	476.8	463.2
45°	491.3	494.4	487.3	488.7	483.0	477.2	469.3	461.0	453.1	436.4	421.0
47.5°	450.0	452.2	447.4	448.3	442.1	436.9	429.8	419.3	410.5	396.0	382.4
50°	407.4	406.6	406.6	405.7	400.8	394.3	387.2	377.6	368.8	355.6	344.2
52.5°	362.2	364.0	364.8	367.0	360.9	356.9	346.0	337.6	331.0	317.4	307.8
55°	318.7	324.9	323.1	324.0	317.0	313.9	305.1	298.6	288.9	281.0	274.8
57.5°	279.2	280.6	281.4	282.7	279.7	273.5	266.5	261.2	253.8	247.2	242.8
60°	241.0	241.0	241.5	243.7	240.6	235.3	230.1	226.1	220.8	216.9	214.3
62.5°	205.0	208.1	208.5	206.8	202.8	200.2	196.7	194.5	191.0	189.7	188.8
65°	171.7	171.7	171.7	172.5	170.4	168.6	166.4	166.0	167.3	165.5	166.4
67.5°	143.6	142.3	141.4	141.8	140.9	140.1	139.6	140.9	143.6	143.6	145.8
70°	119.4	116.8	115.0	115.0	115.0	115.5	116.8	119.4	123.8	125.6	128.6
72.5°	99.7	94.0	91.3	91.3	91.8	93.5	97.5	102.3	106.2	109.8	113.7
75°	80.8	75.1	71.1	70.7	71.6	74.2	79.9	84.3	90.9	95.7	100.5
77.5°	65.4	58.4	53.6	53.1	54.4	58.4	65.4	71.1	78.6	83.9	89.1
80°	52.2	44.3	40.4	37.8	40.0	44.8	52.7	59.7	66.7	73.8	80.3
82.5°	41.7	34.2	28.1	25.5	28.1	34.7	42.1	50.5	57.5	65.0	71.6
85°	32.9	25.0	18.0	15.4	18.4	25.5	33.8	42.1	50.1	57.5	64.1
87.5°	25.9	18.0	11.0	7.5	11.4	18.9	26.8	35.1	43.5	50.9	57.5
90°	20.2	12.7	6.1	0.9	6.6	13.6	21.5	29.4	37.8	45.2	51.8
92.5°	17.1	9.7	3.5	0.0	4.0	10.1	17.6	25.5	32.9	40.4	47.0
95°	14.5	7.9	2.6	0.0	2.6	7.9	14.5	21.5	29.0	36.4	43.0
97.5°	12.3	6.1	1.8	0.0	1.8	6.1	11.9	18.9	25.5	32.5	38.6
100°	10.5	5.3	1.3	0.0	1.3	4.8	10.1	16.2	22.8	29.4	35.1
102.5°	9.2	4.4	0.9	0.0	0.9	4.0	8.3	14.0	19.8	25.9	31.6
105°	7.9	3.5	0.9	0.0	0.4	3.1	7.0	12.3	17.6	23.3	28.5
107.5°	7.0	3.1	0.9	0.0	0.4	2.6	6.1	10.5	15.8	20.6	25.5
110°	6.1	2.6	0.9	0.0	0.4	1.8	5.3	9.2	13.6	18.4	23.3

TEST NUMBER: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.3	2.2	0.4	0.0	0.0	1.3	4.4	7.9	11.9	16.7	20.6
115°	4.8	2.2	0.4	0.0	0.0	0.9	3.5	7.0	10.5	14.9	18.4
117.5°	4.4	1.8	0.4	0.0	0.4	0.9	3.1	6.1	9.2	12.7	16.7
120°	4.0	1.8	0.4	0.0	0.4	0.4	2.2	5.3	7.9	11.4	14.5
122.5°	3.5	1.8	0.4	0.0	0.4	0.4	1.8	4.4	7.0	10.1	12.7
125°	3.1	1.3	0.9	0.4	0.4	0.4	1.3	3.5	6.1	8.3	11.4
127.5°	3.1	1.3	0.9	0.4	0.4	0.4	0.9	3.1	4.8	7.5	10.1
130°	2.6	1.3	0.9	0.4	0.4	0.4	0.4	2.2	4.4	6.1	8.3
132.5°	2.2	1.3	0.9	0.4	0.4	0.4	0.4	1.3	3.1	5.3	7.0
135°	2.2	1.3	0.9	0.4	0.4	0.4	0.4	0.9	2.2	4.0	5.7
137.5°	1.8	0.9	0.9	0.4	0.4	0.4	0.4	0.4	1.8	3.1	4.4
140°	1.8	0.9	0.9	0.4	0.4	0.4	0.4	0.4	1.3	2.2	3.5
142.5°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.8	2.6
145°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.8
147.5°	1.3	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
150°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
152.5°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
155°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
157.5°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
160°	1.3	0.9	0.9	0.4	0.9	0.4	0.9	0.9	0.9	0.9	0.9
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: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	800.4	792.0	796.4	795.1	796.9	800.4	799.9	799.1	799.1	797.7	796.0
5°	797.7	789.8	793.8	791.6	793.8	796.9	796.4	795.1	796.0	793.8	791.6
7.5°	792.5	785.5	789.0	787.2	789.0	792.0	790.7	790.3	791.2	787.6	786.3
10°	786.3	778.4	782.4	780.2	782.4	784.6	783.7	781.9	783.7	780.2	778.9
12.5°	776.7	770.1	772.7	771.8	773.2	775.4	773.6	772.3	773.2	770.1	767.5
15°	766.1	759.6	761.7	760.4	761.3	763.9	760.9	760.4	759.6	756.5	755.6
17.5°	752.5	746.4	748.6	746.4	747.7	746.8	746.4	744.2	744.2	740.7	738.0
20°	735.8	730.6	729.3	727.5	729.3	727.5	724.9	723.1	722.7	719.2	717.0
22.5°	716.5	710.4	711.3	706.4	706.9	704.2	699.8	698.1	696.3	692.4	689.3
25°	693.3	687.1	682.7	679.6	675.7	675.3	669.5	665.2	664.7	659.9	659.4
27.5°	666.9	659.9	656.4	648.9	644.1	640.1	635.3	630.9	628.7	623.4	619.9
30°	636.6	628.7	619.9	614.7	607.2	604.1	595.8	590.5	588.8	583.1	580.4
32.5°	602.4	594.0	587.0	576.9	568.6	564.2	555.8	550.6	548.4	542.2	538.7
35°	565.1	555.8	547.5	537.8	531.2	523.8	513.7	508.4	503.6	501.4	498.8
37.5°	526.0	515.9	506.2	496.6	490.9	482.1	473.3	469.8	464.1	461.9	459.2
40°	485.6	475.5	466.3	457.0	450.5	442.6	434.7	433.3	427.2	425.0	423.2
42.5°	445.6	435.1	424.6	418.0	413.1	405.2	400.0	398.7	393.4	392.1	392.1
45°	409.6	396.5	387.7	382.0	378.0	371.4	367.0	366.2	361.8	360.9	360.9
47.5°	371.0	358.7	352.1	348.6	345.1	340.3	337.6	337.6	333.2	332.4	331.9
50°	335.0	323.6	318.7	315.2	314.8	311.3	309.1	308.2	308.2	305.1	305.6
52.5°	300.7	295.0	291.1	288.9	286.3	284.1	282.3	282.3	281.0	278.8	279.7
55°	269.1	262.5	263.0	261.2	259.9	258.6	259.0	256.4	256.0	254.2	255.5
57.5°	237.5	237.5	236.6	235.3	233.1	234.0	234.0	234.0	231.8	230.5	231.8
60°	210.7	212.1	209.9	211.2	210.3	210.7	209.9	209.9	208.5	208.1	208.5
62.5°	187.0	189.2	188.4	190.1	189.2	189.7	190.5	188.8	187.9	187.0	187.9
65°	166.0	168.6	168.2	169.5	169.9	170.4	170.8	169.9	169.0	168.2	167.7
67.5°	147.5	150.2	151.9	152.3	152.8	154.1	153.7	152.8	151.9	150.6	150.2
70°	130.8	134.3	136.5	137.4	139.2	138.3	138.3	137.9	137.0	135.7	135.2
72.5°	116.8	120.7	122.9	123.8	125.6	125.6	125.1	124.7	123.8	122.5	122.1
75°	104.5	108.0	111.1	112.8	114.2	114.2	113.7	113.3	112.4	111.5	111.1
77.5°	94.8	97.9	100.5	102.7	103.6	104.1	103.6	102.7	102.7	102.3	101.9
80°	85.2	88.7	91.3	93.5	94.8	94.8	94.4	94.8	94.0	93.5	93.1
82.5°	76.8	80.8	83.9	86.1	86.9	87.4	86.9	87.4	86.5	86.5	86.5
85°	69.4	73.3	76.8	78.6	79.9	80.3	80.3	80.3	79.9	79.9	79.9
87.5°	63.2	67.2	70.7	72.4	73.8	74.2	74.2	74.6	73.8	73.8	73.8
90°	57.5	61.5	65.0	66.7	68.1	68.9	68.9	69.4	68.9	68.5	68.5
92.5°	52.2	56.6	60.1	61.9	63.2	64.5	64.5	65.0	64.1	64.1	64.1
95°	47.9	52.2	55.3	57.5	58.8	59.7	60.1	60.1	59.7	59.7	59.7
97.5°	43.9	47.9	50.9	53.1	54.4	54.9	55.3	55.8	55.3	55.3	55.3
100°	40.0	43.9	47.0	48.7	50.5	50.9	51.4	51.8	51.8	51.4	51.4
102.5°	36.4	40.4	43.0	45.2	46.5	47.4	47.9	47.9	47.9	47.9	47.9
105°	32.9	36.9	39.5	41.7	43.0	43.9	44.3	44.8	44.8	44.3	44.3
107.5°	29.9	33.4	36.4	38.2	40.0	40.8	41.3	41.3	41.7	41.3	41.3
110°	26.8	30.7	33.4	35.1	36.9	37.8	38.2	38.6	38.6	38.6	38.6

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CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	24.6	27.7	30.3	32.1	33.8	34.7	35.1	35.6	36.0	35.6	35.6
115°	22.0	25.0	27.7	29.4	30.7	31.6	32.5	32.9	32.9	33.4	32.9
117.5°	19.8	22.4	25.0	26.8	28.1	29.4	29.9	30.3	30.7	30.3	30.3
120°	17.6	20.2	22.4	24.1	25.5	26.8	27.2	27.7	28.1	27.7	27.7
122.5°	15.8	18.0	20.2	22.0	23.3	24.1	25.0	25.0	25.5	25.5	25.5
125°	14.0	16.2	18.0	19.8	21.1	22.0	22.4	22.8	22.8	23.3	23.3
127.5°	12.3	14.0	16.2	17.6	18.9	19.8	20.2	20.6	20.6	21.1	21.1
130°	10.5	12.3	14.0	15.4	16.7	17.6	18.0	18.4	18.9	18.9	18.9
132.5°	9.2	11.0	12.3	13.6	14.5	15.4	16.2	16.7	16.7	16.7	16.7
135°	7.5	9.2	10.5	11.9	12.7	13.6	14.0	14.9	14.9	14.9	14.9
137.5°	6.1	7.9	9.2	10.1	11.0	11.9	12.3	12.7	13.2	13.2	13.2
140°	4.8	6.1	7.5	8.8	9.7	10.1	11.0	11.0	11.4	11.4	11.4
142.5°	3.5	4.8	5.7	7.0	7.9	8.8	9.2	9.7	9.7	9.7	9.7
145°	2.6	3.5	4.4	5.3	6.6	7.0	7.5	7.9	8.3	8.3	8.3
147.5°	1.8	2.6	3.1	4.0	4.8	5.7	6.1	6.6	7.0	7.0	7.0
150°	1.3	1.8	2.6	3.1	3.5	4.4	5.3	5.3	5.7	5.7	5.3
152.5°	0.9	1.3	1.8	2.2	2.6	3.1	4.0	4.0	4.4	4.4	4.4
155°	0.9	0.9	0.9	1.3	1.8	2.2	2.6	3.1	3.1	3.1	3.1
157.5°	0.9	0.9	0.9	0.9	0.9	1.3	1.8	2.2	2.2	2.2	2.2
160°	0.9	0.9	0.4	0.4	0.9	0.9	0.9	0.9	1.3	1.3	1.3
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: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	797.3	798.2	798.2	797.3	796.9	798.6	796.4	788.1	790.7	791.6	794.2
5°	793.4	794.2	794.2	794.2	793.4	795.1	792.9	784.6	787.6	789.0	790.7
7.5°	787.6	788.1	789.0	788.5	787.6	790.3	788.1	779.7	781.9	784.1	786.3
10°	780.2	780.2	780.6	781.5	780.6	782.8	780.6	773.2	775.4	776.7	779.3
12.5°	770.1	771.0	771.4	771.0	770.5	772.3	771.4	764.4	765.3	767.9	770.5
15°	756.5	756.5	758.7	757.8	757.8	759.6	760.4	752.5	753.8	757.8	760.4
17.5°	739.8	740.2	742.0	742.9	742.4	745.5	745.9	739.8	739.4	744.2	746.8
20°	718.3	719.2	721.4	723.1	723.1	726.6	727.9	724.0	724.4	729.7	730.6
22.5°	691.9	691.9	695.9	698.5	700.7	702.9	706.9	703.4	703.4	710.4	714.3
25°	659.4	662.5	663.8	669.1	672.2	678.3	681.8	682.3	682.7	689.3	691.9
27.5°	623.4	624.3	628.3	634.4	637.9	643.6	650.2	651.5	653.7	662.5	666.5
30°	582.6	585.2	587.0	595.8	600.6	608.1	616.4	619.5	621.3	633.1	637.9
32.5°	540.9	541.8	549.2	554.1	559.8	567.7	577.3	583.1	586.6	598.9	605.9
35°	499.2	501.0	507.1	513.2	519.0	526.9	537.0	544.9	551.0	562.0	571.2
37.5°	461.0	465.4	466.7	472.9	477.2	485.1	492.2	503.6	509.7	521.1	533.0
40°	426.8	428.1	428.9	435.1	438.2	445.6	455.7	463.2	471.5	479.9	493.9
42.5°	392.9	393.8	395.1	398.7	402.2	407.4	414.9	422.4	431.1	443.4	452.7
45°	361.8	362.7	363.5	365.7	368.8	373.6	378.5	383.7	392.5	403.0	412.7
47.5°	332.8	334.6	334.6	335.0	337.2	341.1	344.7	351.2	356.1	361.8	372.8
50°	305.1	306.5	306.9	306.9	308.2	310.8	311.7	316.1	320.5	325.8	333.7
52.5°	279.2	279.2	278.8	280.6	280.6	282.3	282.7	285.4	288.5	294.2	297.7
55°	254.6	254.6	256.0	255.1	255.1	256.0	255.5	256.0	258.6	262.1	265.2
57.5°	230.9	230.5	231.8	230.9	230.5	231.4	232.3	230.5	230.9	234.5	234.5
60°	207.2	207.7	209.0	208.1	208.1	208.1	207.2	206.4	205.5	207.7	208.5
62.5°	188.4	187.0	188.4	187.0	187.9	187.5	186.6	184.8	185.3	184.4	183.5
65°	168.6	168.6	169.0	167.7	168.6	168.6	167.3	166.8	164.2	163.3	161.1
67.5°	151.5	151.5	151.9	151.0	151.0	151.5	150.2	148.8	146.2	144.9	141.8
70°	136.5	136.5	136.5	136.1	136.1	136.1	135.2	133.5	130.8	128.6	124.7
72.5°	122.9	123.4	122.9	122.9	124.3	122.9	121.6	119.9	117.7	113.3	109.8
75°	112.0	112.4	112.0	112.0	112.0	111.5	111.1	108.4	105.8	102.3	97.0
77.5°	102.3	102.3	102.7	102.3	102.3	101.9	100.5	98.3	95.3	92.2	86.1
80°	93.1	93.5	94.0	94.4	93.5	93.1	91.8	90.0	86.1	82.5	76.4
82.5°	86.5	86.1	86.5	86.9	86.1	85.6	84.3	82.1	79.0	74.2	68.1
85°	79.9	79.5	79.5	79.9	79.5	78.6	77.3	75.1	72.0	67.2	61.0
87.5°	73.3	73.8	74.2	73.8	73.3	72.4	71.1	68.9	65.4	61.5	54.9
90°	68.5	68.5	68.5	68.5	68.1	67.2	65.9	63.2	60.1	55.3	49.6
92.5°	64.1	64.1	64.1	64.1	63.7	62.3	61.0	58.8	55.3	50.5	45.2
95°	59.7	60.1	59.7	59.7	58.8	58.4	56.2	54.0	50.9	46.1	40.4
97.5°	54.9	55.3	54.9	54.9	54.4	53.6	52.2	49.6	46.5	42.1	36.9
100°	51.4	51.4	50.9	50.9	50.5	49.6	47.9	45.7	42.6	38.2	32.9
102.5°	47.4	47.9	47.4	47.4	46.5	45.7	44.3	42.1	39.1	34.7	29.9
105°	44.3	44.3	43.9	43.9	43.0	42.1	40.8	38.2	35.6	31.6	26.8
107.5°	41.3	41.3	40.8	40.8	40.0	39.1	37.3	35.1	32.5	28.5	24.1
110°	38.2	38.2	38.2	37.8	36.9	35.6	34.2	32.1	29.4	25.9	21.5

TEST NUMBER: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	36.0	35.6	35.1	34.7	33.8	32.9	31.2	29.0	26.3	23.3	19.3
115°	32.9	32.9	32.5	32.1	31.2	29.9	28.5	26.8	24.1	20.6	17.1
117.5°	30.3	30.3	29.9	29.4	28.5	27.2	25.9	24.1	21.5	18.4	15.4
120°	27.7	27.7	27.2	26.8	25.9	24.6	23.7	21.5	19.3	16.2	13.6
122.5°	25.5	25.0	25.0	24.1	23.7	22.4	21.1	19.3	17.1	14.5	11.9
125°	22.8	22.8	22.4	22.0	21.5	20.2	18.9	17.1	14.9	12.7	10.5
127.5°	20.6	20.6	20.2	19.8	19.3	18.0	16.7	15.4	13.2	11.0	8.8
130°	18.4	18.4	18.0	17.6	17.1	15.8	14.9	13.2	11.4	9.7	7.5
132.5°	16.7	16.7	16.2	15.8	14.9	14.0	13.2	11.4	10.1	8.3	6.6
135°	14.9	14.5	14.5	14.0	13.2	12.3	11.4	10.1	8.3	7.0	5.3
137.5°	13.2	12.7	12.3	11.9	11.4	10.5	9.7	8.8	7.5	5.7	4.4
140°	11.4	11.0	11.0	10.5	9.7	9.2	8.3	7.0	6.1	4.8	3.5
142.5°	9.7	9.7	9.2	8.8	8.3	7.9	7.0	6.1	4.8	4.0	2.6
145°	8.3	7.9	7.9	7.5	7.0	6.1	5.7	4.8	4.0	3.1	2.2
147.5°	6.6	6.6	6.6	6.1	5.7	5.3	4.8	4.0	3.1	2.2	1.3
150°	5.3	5.3	5.3	4.8	4.4	4.0	3.5	3.1	2.2	1.3	0.9
152.5°	4.4	4.4	4.0	4.0	3.5	3.1	2.6	2.2	1.3	0.9	0.9
155°	3.1	3.1	3.1	2.6	2.6	2.2	1.8	1.3	0.9	0.9	0.9
157.5°	2.2	2.2	2.2	1.8	1.8	1.3	1.3	0.9	0.9	0.9	0.9
160°	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	798.2	798.2	798.2	798.2	798.2	798.2	798.2
2.5°	792.9	792.5	796.0	796.0	792.0	798.2	804.8
5°	790.3	789.8	793.4	793.4	789.8	796.0	803.0
7.5°	785.0	785.5	789.0	789.8	785.5	791.2	798.6
10°	779.3	778.9	782.8	783.7	780.2	785.5	792.5
12.5°	770.1	770.1	774.0	775.4	771.8	778.0	784.6
15°	760.4	760.4	763.1	765.3	762.2	767.9	774.5
17.5°	748.1	747.7	750.3	753.0	749.9	756.0	763.1
20°	732.3	732.3	735.4	738.5	736.3	742.0	749.9
22.5°	715.6	713.9	719.2	721.4	720.0	725.7	733.6
25°	694.6	694.1	699.4	702.5	700.7	706.9	713.9
27.5°	671.7	671.3	676.6	680.5	679.6	685.4	693.3
30°	644.1	646.3	651.1	657.7	655.5	661.6	670.0
32.5°	615.1	617.3	623.0	630.0	630.5	635.3	643.6
35°	580.4	586.1	590.1	599.3	601.1	605.9	614.7
37.5°	544.0	550.6	558.9	565.9	569.4	573.4	583.5
40°	503.1	512.8	522.0	530.4	534.8	538.7	548.4
42.5°	466.3	473.7	482.5	490.9	498.8	502.3	512.4
45°	424.6	433.3	441.2	451.3	459.2	463.2	473.3
47.5°	383.7	392.5	403.0	410.1	418.4	422.4	432.0
50°	344.7	352.6	361.3	369.7	376.7	380.2	388.6
52.5°	306.0	314.4	322.7	328.0	335.4	338.1	345.1
55°	271.8	277.5	284.9	288.0	295.5	297.2	302.1
57.5°	238.8	242.8	245.4	250.7	256.0	259.9	265.6
60°	209.0	210.7	212.5	215.6	220.0	221.3	223.5
62.5°	182.2	181.8	185.3	186.2	186.6	191.0	188.8
65°	158.5	158.9	155.9	154.5	156.3	157.6	156.7
67.5°	138.7	136.1	133.5	130.4	127.8	129.1	127.8
70°	119.4	117.2	112.8	108.4	106.7	104.1	102.7
72.5°	104.1	98.8	94.4	88.7	85.6	82.5	80.3
75°	92.2	84.7	78.6	72.4	68.1	63.7	62.8
77.5°	79.9	72.9	65.9	59.3	52.7	47.9	46.1
80°	70.2	63.7	55.3	47.4	40.4	34.2	32.1
82.5°	61.5	54.4	46.1	37.8	29.9	23.3	20.6
85°	54.0	46.5	38.2	29.9	22.0	14.9	11.4
87.5°	48.3	40.0	31.6	23.7	15.4	8.3	4.4
90°	43.0	35.1	27.2	18.9	11.0	4.4	0.0
92.5°	38.2	30.7	22.8	15.4	8.3	2.6	0.4
95°	33.8	27.2	19.3	12.3	6.1	1.8	0.4
97.5°	30.3	23.7	16.7	10.1	4.8	1.3	0.4
100°	27.2	20.6	14.5	8.3	4.0	0.9	0.4
102.5°	24.1	18.4	12.3	7.0	3.1	0.4	0.4
105°	21.5	16.2	10.5	6.1	2.6	0.4	0.4
107.5°	19.3	14.5	9.2	5.3	1.8	0.4	0.4
110°	17.1	12.3	7.9	4.4	1.3	0.4	0.4

TEST NUMBER: P1213678

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	15.4	11.0	7.0	3.5	0.9	0.4	0.4
115°	13.6	9.7	6.1	3.1	0.9	0.4	0.4
117.5°	11.9	8.3	5.3	2.2	0.4	0.4	0.4
120°	10.5	7.5	4.4	1.8	0.4	0.4	0.4
122.5°	9.2	6.1	3.5	1.3	0.4	0.4	0.4
125°	7.9	5.3	3.1	0.9	0.4	0.4	0.4
127.5°	6.6	4.4	2.2	0.9	0.4	0.4	0.4
130°	5.7	3.5	1.8	0.4	0.4	0.4	0.4
132.5°	4.8	2.6	1.3	0.4	0.4	0.4	0.4
135°	4.0	2.2	0.9	0.4	0.4	0.4	0.4
137.5°	3.1	1.8	0.9	0.4	0.4	0.4	0.4
140°	2.2	1.3	0.4	0.4	0.4	0.4	0.4
142.5°	1.8	0.9	0.4	0.4	0.4	0.4	0.4
145°	1.3	0.9	0.4	0.4	0.4	0.4	0.4
147.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4
150°	0.9	0.9	0.4	0.4	0.9	0.4	0.4
152.5°	0.9	0.4	0.4	0.4	0.9	0.4	0.4
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.4
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)