

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: P1213327

Luminaire Tested: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213327
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-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

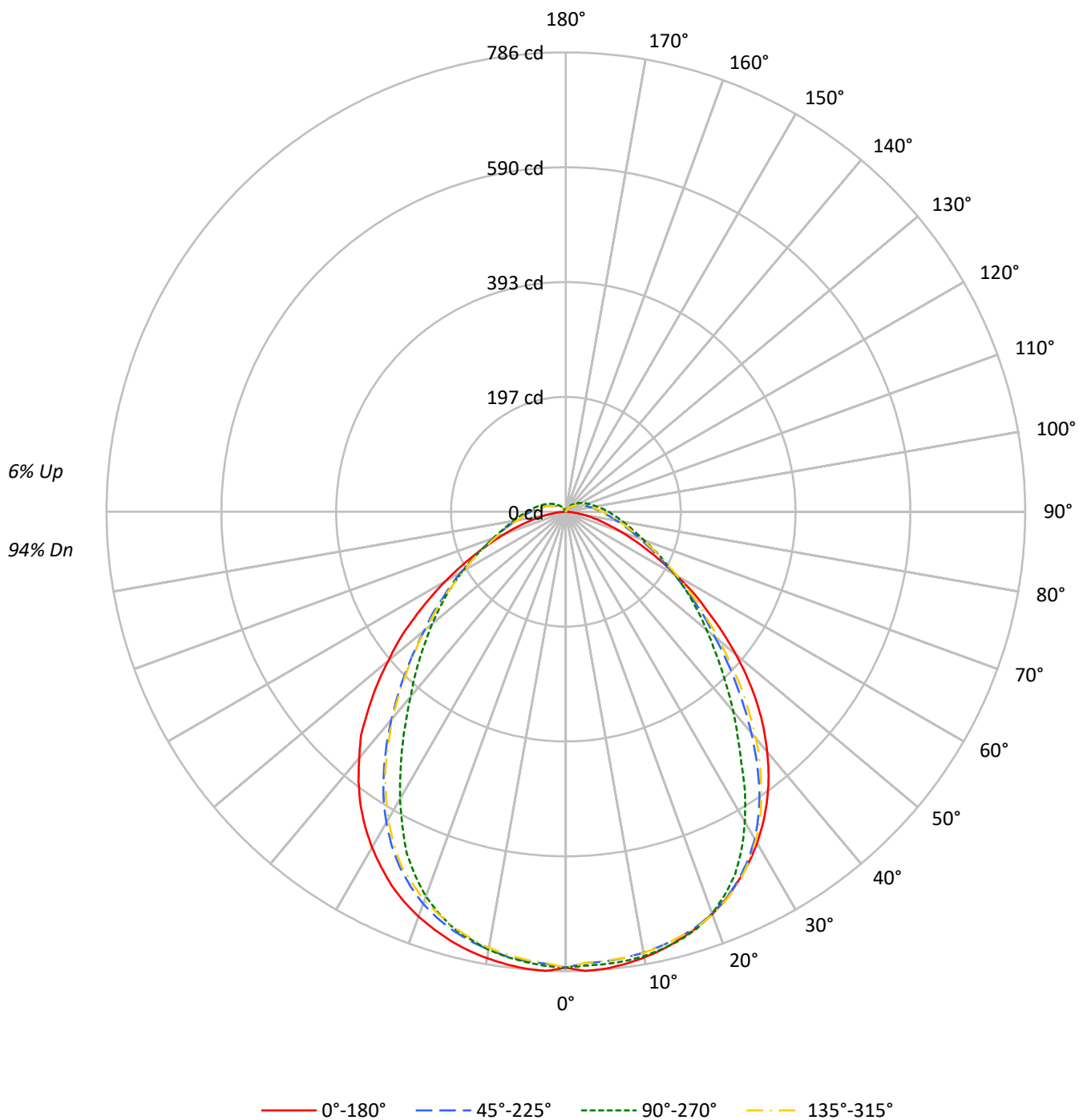
Lumens per Lamp: N/A
Luminaire Lumens: 1974.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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°	12606	12606	12606	12606
5°	12662	12205	12662	12152
10°	12570	11882	12592	11715
15°	12454	11525	12512	11226
20°	12323	11069	12396	10601
25°	12088	10393	12223	9780
30°	11793	9398	11948	8700
35°	11355	8177	11574	7615
40°	10743	7153	11026	6636
45°	9949	6217	10272	5861
50°	8885	5464	9276	5187
55°	7636	4824	8190	4580
60°	6370	4235	6945	3992
65°	5166	3746	5686	3473
70°	4049	3324	4533	3073
75°	3109	3069	3499	2822
80°	2151	2960	2536	2707
85°	1211	2979	1622	2737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 10272 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.7
10°-20°	212.0	10.7
20°-30°	314.3	15.9
30°-40°	349.1	17.7
40°-50°	316.5	16.0
50°-60°	245.2	12.4
60°-70°	166.5	8.4
70°-80°	106.0	5.4
80°-90°	67.7	3.4
90°-100°	45.7	2.3
100°-110°	31.3	1.6
110°-120°	20.9	1.1
120°-130°	13.0	0.7
130°-140°	7.2	0.4
140°-150°	3.4	0.2
150°-160°	1.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	600.3	30.4
0°-40°	949.4	48.1
0°-60°	1511.1	76.6
0°-90°	1851.4	93.8
90°-120°	97.8	5.0
90°-150°	121.3	6.1
90°-180°	123.0	6.2
0°-180°	1974.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	780	780	780	780	780	
5°	785	777	785	774	785	75
15°	757	758	760	738	757	214
25°	698	685	705	644	698	321
35°	601	523	612	487	601	375
45°	462	374	478	353	462	355
55°	295	263	317	250	295	266
65°	153	177	169	164	153	154
75°	61	118	69	108	61	66
85°	11	85	15	78	11	13
90°	0	73	1	67	0	1
95°	0	63	0	58	0	0
105°	0	46	0	43	0	0
115°	0	35	0	32	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	6	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°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	786.4	785.6	784.7	783.4	784.7	788.2	786.0	781.3	780.4	772.7	776.1
5°	784.7	783.4	782.6	781.3	783.0	787.3	785.2	780.9	779.6	772.3	776.1
7.5°	780.4	779.6	778.3	778.3	780.0	784.3	782.6	777.9	777.0	769.7	774.0
10°	774.4	774.0	773.1	773.1	774.9	780.0	777.9	773.6	772.7	765.9	770.6
12.5°	766.7	767.1	765.9	765.9	768.4	773.6	771.9	767.1	766.3	760.3	765.0
15°	756.8	757.3	756.4	756.8	759.4	765.4	763.3	759.0	758.1	753.4	757.3
17.5°	745.7	746.1	746.1	745.7	748.7	754.7	753.0	749.1	747.8	744.0	748.7
20°	732.8	732.8	732.8	732.8	736.2	742.3	740.1	737.1	734.5	731.5	735.4
22.5°	716.9	716.5	716.9	718.2	721.7	726.4	725.1	721.7	717.8	716.1	719.1
25°	697.6	698.9	699.3	700.6	704.9	708.8	707.5	704.1	698.1	696.8	697.6
27.5°	677.5	678.3	679.6	679.2	685.2	689.1	686.5	683.5	674.9	673.6	672.7
30°	654.7	656.0	656.9	656.4	661.2	665.5	662.9	659.0	647.4	646.6	639.7
32.5°	629.0	630.3	631.1	631.1	638.0	639.7	635.0	629.4	617.0	614.0	608.0
35°	600.7	602.0	602.4	602.4	609.2	608.8	602.8	595.1	581.4	577.5	567.2
37.5°	570.2	571.1	571.5	574.1	577.1	574.5	566.8	556.9	546.6	535.9	524.7
40°	535.9	537.2	538.0	539.7	542.7	539.7	528.6	516.6	505.4	493.4	482.3
42.5°	500.7	504.6	503.7	503.3	505.0	496.8	488.3	474.5	463.4	450.9	439.8
45°	462.5	462.1	464.2	465.1	464.7	457.8	445.8	433.3	422.2	409.3	399.9
47.5°	422.2	421.8	423.5	424.3	421.8	414.5	405.0	390.9	381.4	370.3	363.0
50°	379.7	379.7	382.3	379.7	378.4	371.1	363.4	349.2	342.0	332.1	327.8
52.5°	337.2	341.1	338.5	337.7	336.4	329.1	323.1	311.5	305.5	301.2	296.0
55°	295.2	299.5	297.8	296.5	296.0	290.0	284.5	275.9	272.0	269.0	266.0
57.5°	259.6	259.1	258.3	257.0	257.4	252.7	247.1	242.4	240.7	239.4	240.3
60°	218.4	221.8	220.5	221.0	221.4	220.5	215.8	212.8	213.2	213.7	215.0
62.5°	184.5	187.5	189.6	187.9	188.8	190.1	187.5	186.6	188.4	190.1	191.8
65°	153.2	156.2	158.3	157.9	160.5	163.0	162.6	163.5	167.3	169.5	171.6
67.5°	124.9	127.9	130.9	131.3	135.2	139.0	140.7	143.7	148.0	151.0	153.6
70°	100.4	103.0	106.4	108.5	113.7	118.8	121.8	127.9	130.4	134.7	136.4
72.5°	78.5	80.7	85.4	90.5	94.8	101.3	107.3	112.4	116.3	121.0	123.1
75°	61.4	62.2	67.4	73.4	79.4	86.7	93.1	98.7	103.8	108.5	112.0
77.5°	45.1	46.3	51.1	59.2	66.1	73.8	81.1	87.1	92.7	97.4	102.1
80°	31.3	33.9	39.0	47.2	54.9	63.5	70.4	77.2	83.2	88.0	92.7
82.5°	20.2	22.3	29.6	37.8	45.9	54.5	61.8	68.6	75.1	80.2	84.5
85°	11.2	14.2	21.5	30.0	38.2	46.8	54.5	61.4	67.8	72.5	76.8
87.5°	4.3	8.6	15.4	23.6	31.7	39.9	48.1	54.5	60.9	66.1	69.9
90°	0.0	5.1	11.6	19.7	27.9	36.0	43.8	50.6	56.6	61.4	65.6
92.5°	0.4	3.4	9.0	15.9	23.6	31.3	38.6	45.5	51.5	56.2	60.1
95°	0.4	2.6	7.3	13.7	20.6	27.9	34.8	41.2	46.8	51.5	55.3
97.5°	0.4	1.7	6.0	12.0	18.0	25.3	31.7	37.8	42.9	47.6	50.6
100°	0.4	1.7	5.1	10.3	16.3	22.7	28.7	34.8	39.5	43.3	46.8
102.5°	0.4	1.3	4.3	9.0	14.6	20.2	26.2	31.7	36.0	39.9	43.3
105°	0.4	1.3	3.9	7.7	12.9	18.4	23.6	28.7	33.5	36.9	39.9
107.5°	0.4	0.9	3.4	6.4	11.2	16.7	21.9	26.2	30.5	33.9	36.9
110°	0.4	0.9	3.0	6.0	9.9	15.0	19.7	24.0	27.9	31.3	33.9

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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	5.6	9.0	13.3	18.0	21.9	25.7	28.7	31.3
115°	0.4	0.9	2.6	5.1	8.2	11.6	15.9	20.2	23.2	26.6	28.7
117.5°	0.4	0.9	2.1	4.3	7.7	10.7	14.6	18.0	21.5	24.5	26.6
120°	0.4	0.9	2.1	3.9	6.9	9.9	12.9	16.3	19.7	21.9	24.0
122.5°	0.4	0.9	1.7	3.9	6.0	9.0	11.6	14.6	17.6	20.2	22.3
125°	0.4	0.9	1.7	3.4	5.6	8.2	10.7	12.9	15.9	18.0	20.2
127.5°	0.4	0.9	1.7	3.0	5.1	7.3	9.9	12.0	14.2	16.3	18.0
130°	0.4	0.9	1.3	2.6	4.7	6.4	8.6	11.2	12.9	14.6	16.3
132.5°	0.4	0.9	1.3	2.6	3.9	5.6	7.7	9.9	11.6	13.3	14.6
135°	0.4	0.9	1.3	2.1	3.4	5.1	6.4	8.6	10.3	12.0	13.3
137.5°	0.4	0.9	1.3	2.1	3.0	4.3	5.6	7.3	9.0	10.3	12.0
140°	0.4	0.9	1.3	1.7	2.6	3.9	5.1	6.0	7.7	9.0	10.3
142.5°	0.4	0.9	1.3	1.7	2.6	3.4	4.3	5.1	6.4	7.7	9.0
145°	0.4	0.9	1.3	1.7	2.1	3.0	3.9	4.7	5.1	6.4	7.3
147.5°	0.4	0.9	1.3	1.7	1.7	2.6	3.4	3.9	4.7	5.1	6.0
150°	0.4	0.9	1.3	1.3	1.7	2.1	3.0	3.4	3.9	4.7	5.1
152.5°	0.4	0.9	1.3	1.3	1.7	2.1	2.6	3.0	3.4	3.9	4.3
155°	0.4	0.9	1.3	1.3	1.3	1.7	2.1	2.6	3.0	3.4	3.9
157.5°	0.9	0.9	0.9	1.3	1.3	1.7	1.7	2.1	2.6	2.6	3.0
160°	0.9	0.9	0.9	1.3	1.3	1.3	1.7	1.7	2.1	2.1	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°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	775.3	776.6	780.4	780.4	779.6	778.7	778.7	777.4	778.3	780.0	779.2
5°	775.3	776.6	780.4	780.4	779.6	778.7	778.3	777.0	778.3	780.0	779.2
7.5°	772.7	774.4	778.3	778.3	777.4	777.0	776.1	775.3	776.6	778.3	777.4
10°	769.3	771.0	774.9	774.9	774.0	774.0	772.7	771.9	773.6	774.9	774.4
12.5°	764.1	766.3	769.7	769.3	768.4	768.9	767.6	765.9	767.6	768.9	769.3
15°	756.8	759.4	762.8	762.0	760.7	761.6	759.4	758.1	759.4	762.0	761.6
17.5°	747.4	749.1	751.7	751.7	750.4	749.5	748.7	747.4	748.3	750.0	750.4
20°	734.1	736.2	737.5	736.2	735.8	734.5	732.8	731.5	733.2	735.8	736.2
22.5°	716.5	716.9	719.9	716.9	714.8	714.4	712.6	710.1	712.6	714.8	715.2
25°	694.6	696.8	695.5	690.3	690.3	686.9	686.0	684.8	685.2	689.1	690.8
27.5°	666.7	667.6	664.2	659.9	656.0	653.9	650.9	651.3	651.3	656.4	658.2
30°	636.3	631.6	628.6	621.7	618.7	613.5	612.7	612.7	611.8	614.4	622.1
32.5°	599.8	593.4	588.7	582.2	577.1	571.9	569.3	570.6	570.2	576.6	579.2
35°	559.9	556.0	546.2	538.0	535.0	527.3	527.3	523.4	526.0	533.3	536.3
37.5°	517.9	511.9	503.7	494.7	492.5	486.5	484.4	482.3	487.8	489.1	492.1
40°	475.0	469.4	461.7	453.1	453.1	445.8	445.8	445.8	446.2	448.8	454.4
42.5°	434.2	428.2	421.3	415.3	414.5	408.9	408.9	408.5	409.3	411.5	416.6
45°	394.7	390.0	382.7	379.7	380.1	374.1	375.4	374.1	375.8	378.0	379.7
47.5°	358.3	355.3	352.2	348.0	346.7	346.2	344.1	342.4	345.4	345.4	348.0
50°	324.4	322.6	320.9	318.4	318.8	317.1	314.5	314.5	316.6	317.1	318.8
52.5°	294.8	292.6	290.5	290.9	291.3	290.5	289.2	287.9	289.2	290.0	292.2
55°	265.2	263.4	265.6	264.7	265.6	264.7	263.9	263.0	265.2	263.9	266.0
57.5°	238.6	240.3	241.1	239.4	240.7	239.8	240.3	239.0	240.7	241.6	241.1
60°	214.1	216.7	215.4	215.8	217.5	216.7	215.0	216.2	218.0	218.4	218.0
62.5°	191.8	194.8	196.1	195.2	195.6	194.8	196.1	194.4	196.5	197.4	196.1
65°	171.6	175.1	175.9	175.9	175.9	175.1	176.3	176.8	177.6	177.6	176.8
67.5°	154.5	157.5	158.3	159.2	158.3	157.5	157.5	157.9	159.6	160.5	159.6
70°	139.0	142.0	142.4	142.4	142.9	143.7	142.0	142.9	144.2	144.6	144.2
72.5°	125.7	128.7	129.6	129.1	129.6	130.0	130.0	129.1	130.4	131.3	131.3
75°	115.0	116.7	117.6	117.6	118.0	118.4	118.4	118.0	118.8	119.3	119.7
77.5°	105.1	106.4	107.7	107.7	108.1	107.7	108.5	108.5	109.0	109.4	109.8
80°	95.2	97.0	97.8	98.3	99.1	99.5	99.5	99.5	100.0	100.4	100.4
82.5°	87.5	88.8	90.1	91.4	91.4	91.8	91.8	91.8	92.2	92.2	92.7
85°	79.8	81.5	82.8	83.7	84.1	84.5	84.5	85.0	85.0	85.0	85.4
87.5°	72.9	75.1	75.9	76.8	77.2	78.1	78.1	78.1	78.5	78.5	78.5
90°	68.2	70.4	71.2	72.1	72.5	72.9	72.9	73.4	73.4	73.8	73.8
92.5°	62.6	64.8	66.5	66.5	66.9	67.8	67.4	67.4	67.8	68.2	68.2
95°	58.4	60.1	61.4	61.8	62.2	62.2	62.2	62.6	62.2	62.6	62.6
97.5°	53.2	54.9	56.2	57.1	57.5	57.5	57.5	57.9	57.5	57.9	57.9
100°	48.9	50.6	51.9	52.3	53.2	53.2	53.2	53.2	53.2	53.2	53.6
102.5°	45.5	47.2	48.1	48.5	48.9	49.3	49.3	49.3	49.3	49.8	49.8
105°	42.0	43.8	44.6	45.1	45.5	45.9	45.9	45.9	46.3	46.3	45.9
107.5°	39.0	40.3	41.2	42.0	42.5	42.5	42.9	42.9	42.9	42.9	42.9
110°	36.0	37.3	38.6	39.5	39.5	39.9	39.9	40.3	40.3	39.9	40.3

TEST NUMBER: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	33.0	34.8	35.6	36.5	36.9	37.3	37.3	37.3	37.3	37.3	37.3
115°	30.5	32.2	33.0	33.9	34.3	34.8	34.8	34.8	34.8	34.8	34.8
117.5°	28.3	30.0	30.9	31.3	31.7	32.2	32.6	32.6	32.6	32.6	32.2
120°	26.2	27.5	28.3	29.2	29.6	30.0	30.0	30.0	30.0	30.0	30.0
122.5°	24.0	25.3	26.2	27.0	27.5	27.9	27.9	27.9	27.9	27.9	27.9
125°	21.9	23.2	24.0	24.9	25.3	25.7	25.7	25.7	25.7	25.7	25.7
127.5°	19.7	21.0	22.3	22.7	23.2	23.6	23.6	23.6	24.0	23.6	23.6
130°	17.6	18.9	20.2	20.6	21.0	21.5	21.9	21.9	21.9	21.9	21.5
132.5°	15.9	17.2	18.0	18.4	19.3	19.3	19.7	19.7	19.7	19.7	19.3
135°	14.6	15.4	16.3	16.7	17.6	17.6	17.6	18.0	18.0	17.6	17.2
137.5°	12.9	13.7	14.6	15.0	15.4	15.9	15.9	16.3	15.9	15.9	15.9
140°	12.0	12.4	13.3	13.7	14.2	14.2	14.2	14.6	14.6	14.2	14.2
142.5°	10.3	11.2	12.0	12.4	12.9	12.9	12.9	12.9	12.9	12.9	12.9
145°	8.6	9.9	10.3	11.2	11.2	11.6	11.6	11.6	11.6	11.6	11.2
147.5°	7.3	8.2	9.4	9.9	9.9	10.3	10.3	10.3	10.3	10.3	9.9
150°	5.6	6.4	7.7	8.6	8.6	9.0	9.0	9.0	9.0	8.6	8.6
152.5°	4.7	5.6	6.0	6.9	7.3	7.3	7.3	7.7	7.3	7.3	7.3
155°	4.3	4.7	5.1	5.6	6.0	6.4	6.4	6.4	6.4	6.0	6.0
157.5°	3.4	3.9	4.3	4.7	5.1	5.6	5.6	5.6	5.6	5.6	5.1
160°	2.6	3.0	3.4	3.4	3.9	4.3	4.7	4.3	4.3	4.3	4.3
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: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	778.3	777.9	779.2	777.0	770.6	772.3	771.4	775.3	776.1	777.0	780.9
5°	778.3	777.9	778.7	777.0	770.1	771.4	770.6	774.4	775.3	775.7	779.6
7.5°	776.6	776.1	777.4	775.3	768.0	769.7	768.4	772.3	772.7	773.1	776.6
10°	773.1	772.7	773.6	771.9	764.6	766.3	764.6	768.4	768.4	769.3	771.9
12.5°	768.0	767.1	768.9	766.7	758.6	760.7	759.8	762.4	762.8	763.3	765.9
15°	760.7	759.8	761.1	759.8	752.6	753.0	751.7	755.6	756.0	755.1	757.7
17.5°	750.0	749.1	751.7	750.8	743.5	745.3	744.8	745.7	747.0	744.8	748.3
20°	736.7	737.5	738.4	738.8	733.2	733.2	732.8	734.5	735.8	734.1	736.7
22.5°	716.9	719.1	721.7	722.5	718.7	718.2	720.8	719.9	721.2	720.4	722.1
25°	692.1	696.3	698.9	701.5	699.3	700.2	704.1	704.9	704.9	704.5	706.2
27.5°	661.2	666.7	671.5	677.0	674.9	676.6	683.0	683.9	685.6	683.9	687.3
30°	624.3	629.4	638.4	646.6	647.4	650.0	659.0	659.9	664.6	662.9	664.2
32.5°	587.4	589.9	600.2	608.4	613.5	620.0	629.8	631.6	638.0	639.3	639.3
35°	541.0	548.3	557.8	569.3	575.8	582.6	595.9	598.5	608.0	611.0	614.4
37.5°	502.0	508.9	514.9	526.9	538.5	546.2	556.9	563.3	573.2	578.8	583.1
40°	460.4	465.9	472.4	484.4	494.3	505.8	516.6	524.3	536.7	543.2	548.8
42.5°	420.9	425.2	432.1	440.6	450.9	463.8	474.1	483.1	496.4	505.4	511.9
45°	385.7	388.3	394.3	400.7	409.7	423.0	432.9	444.5	455.2	464.7	472.4
47.5°	352.7	356.1	359.1	363.4	371.6	379.7	391.3	402.4	413.2	423.5	431.2
50°	322.2	322.2	326.9	329.9	335.5	342.8	351.8	359.5	372.8	380.1	390.0
52.5°	292.6	294.3	296.9	298.6	302.9	307.6	314.9	321.4	332.5	339.4	348.8
55°	266.4	268.2	269.4	270.3	272.9	278.5	281.0	286.2	293.9	299.5	307.6
57.5°	241.6	242.4	243.7	244.1	244.6	248.0	250.1	251.4	259.1	264.7	271.6
60°	218.8	218.8	220.1	219.7	219.2	221.0	220.5	221.8	226.5	230.0	233.0
62.5°	197.4	197.4	197.8	196.9	196.5	196.5	194.8	196.1	197.4	197.8	199.9
65°	177.6	179.8	178.1	178.5	175.9	175.1	174.2	171.6	171.2	169.5	170.3
67.5°	160.0	161.8	160.0	160.0	157.9	156.2	154.0	149.7	148.5	145.0	144.2
70°	145.9	144.6	145.4	144.2	141.6	139.4	136.4	133.0	128.7	124.4	121.4
72.5°	132.1	132.1	131.3	130.0	128.7	124.4	121.0	117.1	112.0	106.4	102.1
75°	118.8	119.3	119.3	118.0	115.8	112.0	108.1	102.5	97.0	90.5	85.0
77.5°	109.4	109.4	109.4	107.3	105.1	101.7	97.0	91.0	85.0	77.2	70.8
80°	100.4	100.0	100.0	97.4	95.2	91.4	86.7	80.7	74.2	66.1	58.8
82.5°	93.1	92.7	91.8	89.7	86.7	82.8	78.1	71.7	64.8	57.5	48.5
85°	85.4	85.0	84.1	81.9	78.9	75.5	70.4	63.9	57.1	48.9	40.3
87.5°	78.5	78.1	76.8	75.5	72.1	68.2	63.1	57.1	49.8	42.0	33.5
90°	73.8	72.9	72.1	70.4	67.4	63.1	57.9	51.5	44.2	36.5	27.9
92.5°	68.2	67.8	66.5	64.8	62.2	57.9	52.8	46.8	39.5	32.2	24.0
95°	62.6	62.2	61.4	59.6	57.1	53.2	48.5	42.5	35.6	28.3	21.0
97.5°	57.5	57.5	56.2	54.9	51.9	48.9	44.2	38.6	32.2	25.7	18.9
100°	53.2	53.2	51.9	50.2	48.1	45.1	40.3	35.2	29.2	23.2	16.3
102.5°	49.3	48.9	48.1	46.3	44.2	41.2	36.9	32.2	26.6	20.6	14.6
105°	45.9	45.5	44.6	42.9	41.2	37.8	34.3	29.6	24.0	18.4	12.9
107.5°	42.5	42.0	41.6	39.9	37.8	34.8	31.3	26.6	21.9	16.7	11.6
110°	39.5	39.0	38.2	36.5	34.3	31.7	28.3	24.5	19.7	15.0	10.3



TEST NUMBER: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	36.9	36.5	35.6	33.9	32.2	29.2	26.2	21.9	18.0	13.7	9.0
115°	34.3	33.9	33.0	31.3	29.2	26.6	23.6	20.2	15.9	12.0	8.2
117.5°	31.7	31.3	30.5	29.2	27.0	24.5	21.5	18.0	14.2	11.2	7.3
120°	29.6	28.7	27.9	26.6	24.5	22.3	19.3	16.3	12.9	9.9	6.4
122.5°	27.5	26.6	25.7	24.5	22.3	20.2	17.2	14.6	12.0	9.0	6.0
125°	24.9	24.5	23.6	22.3	20.2	18.0	15.9	13.3	10.7	8.2	5.1
127.5°	22.7	22.3	21.5	19.7	18.0	16.3	14.2	12.0	9.4	6.9	4.7
130°	21.0	20.2	19.3	18.0	16.7	15.0	12.9	10.7	8.6	6.0	4.3
132.5°	18.9	18.0	17.2	16.3	15.0	13.3	11.6	9.4	7.7	5.6	3.9
135°	17.2	16.3	15.4	14.6	13.3	12.0	10.3	8.6	6.9	5.1	3.4
137.5°	15.0	14.6	14.2	13.3	12.0	10.7	9.4	7.3	6.0	4.7	3.0
140°	13.7	13.3	12.9	11.6	10.7	9.4	8.2	6.4	5.1	3.9	2.6
142.5°	12.4	12.0	11.2	10.3	9.4	8.6	6.9	6.0	4.7	3.4	2.6
145°	10.7	10.3	9.9	9.0	8.2	6.9	6.0	5.1	4.3	3.0	2.1
147.5°	9.9	9.4	8.6	7.7	6.9	6.0	5.6	4.7	3.4	2.6	1.7
150°	8.2	7.7	7.3	6.4	6.0	5.6	4.7	3.9	3.0	2.1	1.7
152.5°	6.9	6.4	6.0	6.0	5.1	4.7	3.9	3.4	2.6	2.1	1.3
155°	6.0	6.0	5.6	5.1	4.3	3.9	3.4	2.6	2.1	1.7	1.3
157.5°	5.1	4.7	4.3	4.3	3.9	3.4	2.6	2.1	1.7	1.7	1.3
160°	4.3	3.9	3.9	3.4	3.0	2.6	2.1	2.1	1.7	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: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	781.3	776.6	780.9	786.4	786.4	785.6	784.7	786.4	790.7	789.0	783.9
5°	780.0	775.3	779.2	784.7	784.7	783.4	782.6	783.9	788.6	786.4	781.7
7.5°	777.4	773.1	775.7	780.9	780.9	779.6	778.7	780.4	784.3	782.2	777.0
10°	772.7	768.0	771.0	775.7	775.3	774.4	773.1	775.3	778.7	775.7	769.7
12.5°	766.7	762.0	764.6	768.9	768.4	766.7	765.9	767.1	770.1	768.4	762.0
15°	758.6	753.8	756.0	760.3	759.0	757.7	756.0	756.4	760.3	757.3	750.4
17.5°	748.7	743.5	745.3	749.1	747.8	746.5	744.4	744.8	749.1	744.8	737.5
20°	736.7	731.1	732.4	737.1	735.0	732.8	730.7	730.7	735.0	730.2	722.1
22.5°	723.8	718.2	719.1	722.5	720.8	716.9	714.8	716.1	718.2	712.2	703.6
25°	707.9	700.6	701.9	705.4	704.1	698.9	696.8	697.6	696.8	692.1	683.0
27.5°	689.5	681.8	682.6	684.8	683.0	678.3	675.8	676.2	674.5	668.5	658.2
30°	666.3	662.5	662.0	663.3	660.7	656.0	653.0	652.2	651.7	643.1	630.7
32.5°	642.7	639.3	637.1	638.9	635.8	631.1	626.0	626.0	621.7	613.5	602.8
35°	618.7	613.1	611.0	612.3	608.8	602.8	598.5	596.4	589.9	579.6	568.1
37.5°	587.8	583.9	581.4	582.6	578.8	574.5	566.3	564.2	557.3	543.2	528.6
40°	554.3	551.3	548.8	550.0	545.7	539.3	532.0	528.6	520.9	505.0	493.4
42.5°	518.3	517.0	514.0	518.7	510.1	503.7	496.4	490.8	483.1	465.9	452.6
45°	480.1	483.1	476.2	477.5	472.0	466.4	458.7	450.5	442.8	426.5	411.5
47.5°	439.8	441.9	437.2	438.1	432.1	426.9	420.0	409.7	401.2	387.0	373.7
50°	398.2	397.3	397.3	396.4	391.7	385.3	378.4	369.0	360.4	347.5	336.4
52.5°	354.0	355.7	356.5	358.7	352.7	348.8	338.1	329.9	323.5	310.2	300.8
55°	311.5	317.5	315.8	316.6	309.8	306.8	298.2	291.8	282.3	274.6	268.6
57.5°	272.9	274.2	275.0	276.3	273.3	267.3	260.4	255.3	248.0	241.6	237.3
60°	235.5	235.5	236.0	238.1	235.1	230.0	224.8	221.0	215.8	211.9	209.4
62.5°	200.4	203.4	203.8	202.1	198.2	195.6	192.2	190.1	186.6	185.3	184.5
65°	167.8	167.8	167.8	168.6	166.5	164.8	162.6	162.2	163.5	161.8	162.6
67.5°	140.3	139.0	138.2	138.6	137.7	136.9	136.4	137.7	140.3	140.3	142.4
70°	116.7	114.1	112.4	112.4	112.4	112.8	114.1	116.7	121.0	122.7	125.7
72.5°	97.4	91.8	89.2	89.2	89.7	91.4	95.2	100.0	103.8	107.3	111.1
75°	78.9	73.4	69.5	69.1	69.9	72.5	78.1	82.4	88.8	93.5	98.3
77.5°	63.9	57.1	52.3	51.9	53.2	57.1	63.9	69.5	76.8	81.9	87.1
80°	51.1	43.3	39.5	36.9	39.0	43.8	51.5	58.4	65.2	72.1	78.5
82.5°	40.8	33.5	27.5	24.9	27.5	33.9	41.2	49.3	56.2	63.5	69.9
85°	32.2	24.5	17.6	15.0	18.0	24.9	33.0	41.2	48.9	56.2	62.6
87.5°	25.3	17.6	10.7	7.3	11.2	18.4	26.2	34.3	42.5	49.8	56.2
90°	19.7	12.4	6.0	0.9	6.4	13.3	21.0	28.7	36.9	44.2	50.6
92.5°	16.7	9.4	3.4	0.0	3.9	9.9	17.2	24.9	32.2	39.5	45.9
95°	14.2	7.7	2.6	0.0	2.6	7.7	14.2	21.0	28.3	35.6	42.0
97.5°	12.0	6.0	1.7	0.0	1.7	6.0	11.6	18.4	24.9	31.7	37.8
100°	10.3	5.1	1.3	0.0	1.3	4.7	9.9	15.9	22.3	28.7	34.3
102.5°	9.0	4.3	0.9	0.0	0.9	3.9	8.2	13.7	19.3	25.3	30.9
105°	7.7	3.4	0.9	0.0	0.4	3.0	6.9	12.0	17.2	22.7	27.9
107.5°	6.9	3.0	0.9	0.0	0.4	2.6	6.0	10.3	15.4	20.2	24.9
110°	6.0	2.6	0.9	0.0	0.4	1.7	5.1	9.0	13.3	18.0	22.7

TEST NUMBER: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.1	2.1	0.4	0.0	0.0	1.3	4.3	7.7	11.6	16.3	20.2
115°	4.7	2.1	0.4	0.0	0.0	0.9	3.4	6.9	10.3	14.6	18.0
117.5°	4.3	1.7	0.4	0.0	0.4	0.9	3.0	6.0	9.0	12.4	16.3
120°	3.9	1.7	0.4	0.0	0.4	0.4	2.1	5.1	7.7	11.2	14.2
122.5°	3.4	1.7	0.4	0.0	0.4	0.4	1.7	4.3	6.9	9.9	12.4
125°	3.0	1.3	0.9	0.4	0.4	0.4	1.3	3.4	6.0	8.2	11.2
127.5°	3.0	1.3	0.9	0.4	0.4	0.4	0.9	3.0	4.7	7.3	9.9
130°	2.6	1.3	0.9	0.4	0.4	0.4	0.4	2.1	4.3	6.0	8.2
132.5°	2.1	1.3	0.9	0.4	0.4	0.4	0.4	1.3	3.0	5.1	6.9
135°	2.1	1.3	0.9	0.4	0.4	0.4	0.4	0.9	2.1	3.9	5.6
137.5°	1.7	0.9	0.9	0.4	0.4	0.4	0.4	0.4	1.7	3.0	4.3
140°	1.7	0.9	0.9	0.4	0.4	0.4	0.4	0.4	1.3	2.1	3.4
142.5°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.7	2.6
145°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.7
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: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	782.2	774.0	778.3	777.0	778.7	782.2	781.7	780.9	780.9	779.6	777.9
5°	779.6	771.9	775.7	773.6	775.7	778.7	778.3	777.0	777.9	775.7	773.6
7.5°	774.4	767.6	771.0	769.3	771.0	774.0	772.7	772.3	773.1	769.7	768.4
10°	768.4	760.7	764.6	762.4	764.6	766.7	765.9	764.1	765.9	762.4	761.1
12.5°	759.0	752.6	755.1	754.3	755.6	757.7	756.0	754.7	755.6	752.6	750.0
15°	748.7	742.3	744.4	743.1	744.0	746.5	743.5	743.1	742.3	739.3	738.4
17.5°	735.4	729.4	731.5	729.4	730.7	729.8	729.4	727.2	727.2	723.8	721.2
20°	719.1	713.9	712.6	710.9	712.6	710.9	708.4	706.6	706.2	702.8	700.6
22.5°	700.2	694.2	695.1	690.3	690.8	688.2	683.9	682.2	680.5	676.6	673.6
25°	677.5	671.5	667.2	664.2	660.3	659.9	654.3	650.0	649.6	644.9	644.4
27.5°	651.7	644.9	641.4	634.1	629.4	625.6	620.8	616.5	614.4	609.2	605.8
30°	622.1	614.4	605.8	600.7	593.4	590.4	582.2	577.1	575.4	569.8	567.2
32.5°	588.7	580.5	573.6	563.8	555.6	551.3	543.2	538.0	535.9	529.9	526.4
35°	552.2	543.2	535.0	525.6	519.1	511.9	502.0	496.8	492.1	490.0	487.4
37.5°	514.0	504.1	494.7	485.3	479.7	471.1	462.5	459.1	453.5	451.4	448.8
40°	474.5	464.7	455.6	446.6	440.2	432.5	424.8	423.5	417.5	415.3	413.6
42.5°	435.5	425.2	414.9	408.5	403.7	396.0	390.9	389.6	384.4	383.1	383.1
45°	400.3	387.4	378.8	373.3	369.4	363.0	358.7	357.8	353.5	352.7	352.7
47.5°	362.5	350.5	344.1	340.7	337.2	332.5	329.9	329.9	325.6	324.8	324.4
50°	327.4	316.2	311.5	308.1	307.6	304.2	302.1	301.2	301.2	298.2	298.6
52.5°	293.9	288.3	284.5	282.3	279.7	277.6	275.9	275.9	274.6	272.4	273.3
55°	263.0	256.6	257.0	255.3	254.0	252.7	253.1	250.6	250.1	248.4	249.7
57.5°	232.1	232.1	231.3	230.0	227.8	228.7	228.7	228.7	226.5	225.3	226.5
60°	205.9	207.2	205.1	206.4	205.5	205.9	205.1	205.1	203.8	203.4	203.8
62.5°	182.8	184.9	184.1	185.8	184.9	185.3	186.2	184.5	183.6	182.8	183.6
65°	162.2	164.8	164.3	165.6	166.0	166.5	166.9	166.0	165.2	164.3	163.9
67.5°	144.2	146.7	148.5	148.9	149.3	150.6	150.2	149.3	148.5	147.2	146.7
70°	127.9	131.3	133.4	134.3	136.0	135.2	135.2	134.7	133.9	132.6	132.1
72.5°	114.1	118.0	120.1	121.0	122.7	122.7	122.3	121.8	121.0	119.7	119.3
75°	102.1	105.5	108.5	110.3	111.6	111.6	111.1	110.7	109.8	109.0	108.5
77.5°	92.7	95.7	98.3	100.4	101.3	101.7	101.3	100.4	100.4	100.0	99.5
80°	83.2	86.7	89.2	91.4	92.7	92.7	92.2	92.7	91.8	91.4	91.0
82.5°	75.1	78.9	81.9	84.1	85.0	85.4	85.0	85.4	84.5	84.5	84.5
85°	67.8	71.7	75.1	76.8	78.1	78.5	78.5	78.5	78.1	78.1	78.1
87.5°	61.8	65.6	69.1	70.8	72.1	72.5	72.5	72.9	72.1	72.1	72.1
90°	56.2	60.1	63.5	65.2	66.5	67.4	67.4	67.8	67.4	66.9	66.9
92.5°	51.1	55.3	58.8	60.5	61.8	63.1	63.1	63.5	62.6	62.6	62.6
95°	46.8	51.1	54.1	56.2	57.5	58.4	58.8	58.8	58.4	58.4	58.4
97.5°	42.9	46.8	49.8	51.9	53.2	53.6	54.1	54.5	54.1	54.1	54.1
100°	39.0	42.9	45.9	47.6	49.3	49.8	50.2	50.6	50.6	50.2	50.2
102.5°	35.6	39.5	42.0	44.2	45.5	46.3	46.8	46.8	46.8	46.8	46.8
105°	32.2	36.0	38.6	40.8	42.0	42.9	43.3	43.8	43.8	43.3	43.3
107.5°	29.2	32.6	35.6	37.3	39.0	39.9	40.3	40.3	40.8	40.3	40.3
110°	26.2	30.0	32.6	34.3	36.0	36.9	37.3	37.8	37.8	37.8	37.8

TEST NUMBER: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	24.0	27.0	29.6	31.3	33.0	33.9	34.3	34.8	35.2	34.8	34.8
115°	21.5	24.5	27.0	28.7	30.0	30.9	31.7	32.2	32.2	32.6	32.2
117.5°	19.3	21.9	24.5	26.2	27.5	28.7	29.2	29.6	30.0	29.6	29.6
120°	17.2	19.7	21.9	23.6	24.9	26.2	26.6	27.0	27.5	27.0	27.0
122.5°	15.4	17.6	19.7	21.5	22.7	23.6	24.5	24.5	24.9	24.9	24.9
125°	13.7	15.9	17.6	19.3	20.6	21.5	21.9	22.3	22.3	22.7	22.7
127.5°	12.0	13.7	15.9	17.2	18.4	19.3	19.7	20.2	20.2	20.6	20.6
130°	10.3	12.0	13.7	15.0	16.3	17.2	17.6	18.0	18.4	18.4	18.4
132.5°	9.0	10.7	12.0	13.3	14.2	15.0	15.9	16.3	16.3	16.3	16.3
135°	7.3	9.0	10.3	11.6	12.4	13.3	13.7	14.6	14.6	14.6	14.6
137.5°	6.0	7.7	9.0	9.9	10.7	11.6	12.0	12.4	12.9	12.9	12.9
140°	4.7	6.0	7.3	8.6	9.4	9.9	10.7	10.7	11.2	11.2	11.2
142.5°	3.4	4.7	5.6	6.9	7.7	8.6	9.0	9.4	9.4	9.4	9.4
145°	2.6	3.4	4.3	5.1	6.4	6.9	7.3	7.7	8.2	8.2	8.2
147.5°	1.7	2.6	3.0	3.9	4.7	5.6	6.0	6.4	6.9	6.9	6.9
150°	1.3	1.7	2.6	3.0	3.4	4.3	5.1	5.1	5.6	5.6	5.1
152.5°	0.9	1.3	1.7	2.1	2.6	3.0	3.9	3.9	4.3	4.3	4.3
155°	0.9	0.9	0.9	1.3	1.7	2.1	2.6	3.0	3.0	3.0	3.0
157.5°	0.9	0.9	0.9	0.9	0.9	1.3	1.7	2.1	2.1	2.1	2.1
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: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	779.2	780.0	780.0	779.2	778.7	780.4	778.3	770.1	772.7	773.6	776.1
5°	775.3	776.1	776.1	776.1	775.3	777.0	774.9	766.7	769.7	771.0	772.7
7.5°	769.7	770.1	771.0	770.6	769.7	772.3	770.1	762.0	764.1	766.3	768.4
10°	762.4	762.4	762.8	763.7	762.8	765.0	762.8	755.6	757.7	759.0	761.6
12.5°	752.6	753.4	753.8	753.4	753.0	754.7	753.8	747.0	747.8	750.4	753.0
15°	739.3	739.3	741.4	740.5	740.5	742.3	743.1	735.4	736.7	740.5	743.1
17.5°	722.9	723.4	725.1	725.9	725.5	728.5	729.0	722.9	722.5	727.2	729.8
20°	701.9	702.8	704.9	706.6	706.6	710.1	711.4	707.5	707.9	713.1	713.9
22.5°	676.2	676.2	680.0	682.6	684.8	686.9	690.8	687.3	687.3	694.2	698.1
25°	644.4	647.4	648.7	653.9	656.9	662.9	666.3	666.7	667.2	673.6	676.2
27.5°	609.2	610.1	614.0	620.0	623.4	629.0	635.4	636.7	638.9	647.4	651.3
30°	569.3	571.9	573.6	582.2	586.9	594.2	602.4	605.4	607.1	618.7	623.4
32.5°	528.6	529.4	536.7	541.5	547.0	554.8	564.2	569.8	573.2	585.2	592.1
35°	487.8	489.5	495.6	501.6	507.1	514.9	524.7	532.4	538.5	549.2	558.2
37.5°	450.5	454.8	456.1	462.1	466.4	474.1	481.0	492.1	498.1	509.3	520.9
40°	417.0	418.3	419.2	425.2	428.2	435.5	445.4	452.6	460.8	468.9	482.7
42.5°	384.0	384.9	386.1	389.6	393.0	398.2	405.5	412.7	421.3	433.3	442.3
45°	353.5	354.4	355.3	357.4	360.4	365.1	369.8	375.0	383.6	393.9	403.3
47.5°	325.2	326.9	326.9	327.4	329.5	333.4	336.8	343.2	348.0	353.5	364.3
50°	298.2	299.5	299.9	299.9	301.2	303.8	304.6	308.9	313.2	318.4	326.1
52.5°	272.9	272.9	272.4	274.2	274.2	275.9	276.3	278.9	281.9	287.5	290.9
55°	248.8	248.8	250.1	249.3	249.3	250.1	249.7	250.1	252.7	256.1	259.1
57.5°	225.7	225.3	226.5	225.7	225.3	226.1	227.0	225.3	225.7	229.1	229.1
60°	202.5	202.9	204.2	203.4	203.4	203.4	202.5	201.7	200.8	202.9	203.8
62.5°	184.1	182.8	184.1	182.8	183.6	183.2	182.3	180.6	181.1	180.2	179.3
65°	164.8	164.8	165.2	163.9	164.8	164.8	163.5	163.0	160.5	159.6	157.5
67.5°	148.0	148.0	148.5	147.6	147.6	148.0	146.7	145.4	142.9	141.6	138.6
70°	133.4	133.4	133.4	133.0	133.0	133.0	132.1	130.4	127.9	125.7	121.8
72.5°	120.1	120.6	120.1	120.1	121.4	120.1	118.8	117.1	115.0	110.7	107.3
75°	109.4	109.8	109.4	109.4	109.4	109.0	108.5	106.0	103.4	100.0	94.8
77.5°	100.0	100.0	100.4	100.0	100.0	99.5	98.3	96.1	93.1	90.1	84.1
80°	91.0	91.4	91.8	92.2	91.4	91.0	89.7	88.0	84.1	80.7	74.7
82.5°	84.5	84.1	84.5	85.0	84.1	83.7	82.4	80.2	77.2	72.5	66.5
85°	78.1	77.7	77.7	78.1	77.7	76.8	75.5	73.4	70.4	65.6	59.6
87.5°	71.7	72.1	72.5	72.1	71.7	70.8	69.5	67.4	63.9	60.1	53.6
90°	66.9	66.9	66.9	66.9	66.5	65.6	64.4	61.8	58.8	54.1	48.5
92.5°	62.6	62.6	62.6	62.6	62.2	60.9	59.6	57.5	54.1	49.3	44.2
95°	58.4	58.8	58.4	58.4	57.5	57.1	54.9	52.8	49.8	45.1	39.5
97.5°	53.6	54.1	53.6	53.6	53.2	52.3	51.1	48.5	45.5	41.2	36.0
100°	50.2	50.2	49.8	49.8	49.3	48.5	46.8	44.6	41.6	37.3	32.2
102.5°	46.3	46.8	46.3	46.3	45.5	44.6	43.3	41.2	38.2	33.9	29.2
105°	43.3	43.3	42.9	42.9	42.0	41.2	39.9	37.3	34.8	30.9	26.2
107.5°	40.3	40.3	39.9	39.9	39.0	38.2	36.5	34.3	31.7	27.9	23.6
110°	37.3	37.3	37.3	36.9	36.0	34.8	33.5	31.3	28.7	25.3	21.0

TEST NUMBER: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	35.2	34.8	34.3	33.9	33.0	32.2	30.5	28.3	25.7	22.7	18.9
115°	32.2	32.2	31.7	31.3	30.5	29.2	27.9	26.2	23.6	20.2	16.7
117.5°	29.6	29.6	29.2	28.7	27.9	26.6	25.3	23.6	21.0	18.0	15.0
120°	27.0	27.0	26.6	26.2	25.3	24.0	23.2	21.0	18.9	15.9	13.3
122.5°	24.9	24.5	24.5	23.6	23.2	21.9	20.6	18.9	16.7	14.2	11.6
125°	22.3	22.3	21.9	21.5	21.0	19.7	18.4	16.7	14.6	12.4	10.3
127.5°	20.2	20.2	19.7	19.3	18.9	17.6	16.3	15.0	12.9	10.7	8.6
130°	18.0	18.0	17.6	17.2	16.7	15.4	14.6	12.9	11.2	9.4	7.3
132.5°	16.3	16.3	15.9	15.4	14.6	13.7	12.9	11.2	9.9	8.2	6.4
135°	14.6	14.2	14.2	13.7	12.9	12.0	11.2	9.9	8.2	6.9	5.1
137.5°	12.9	12.4	12.0	11.6	11.2	10.3	9.4	8.6	7.3	5.6	4.3
140°	11.2	10.7	10.7	10.3	9.4	9.0	8.2	6.9	6.0	4.7	3.4
142.5°	9.4	9.4	9.0	8.6	8.2	7.7	6.9	6.0	4.7	3.9	2.6
145°	8.2	7.7	7.7	7.3	6.9	6.0	5.6	4.7	3.9	3.0	2.1
147.5°	6.4	6.4	6.4	6.0	5.6	5.1	4.7	3.9	3.0	2.1	1.3
150°	5.1	5.1	5.1	4.7	4.3	3.9	3.4	3.0	2.1	1.3	0.9
152.5°	4.3	4.3	3.9	3.9	3.4	3.0	2.6	2.1	1.3	0.9	0.9
155°	3.0	3.0	3.0	2.6	2.6	2.1	1.7	1.3	0.9	0.9	0.9
157.5°	2.1	2.1	2.1	1.7	1.7	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: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	774.9	774.4	777.9	777.9	774.0	780.0	786.4
5°	772.3	771.9	775.3	775.3	771.9	777.9	784.7
7.5°	767.1	767.6	771.0	771.9	767.6	773.1	780.4
10°	761.6	761.1	765.0	765.9	762.4	767.6	774.4
12.5°	752.6	752.6	756.4	757.7	754.3	760.3	766.7
15°	743.1	743.1	745.7	747.8	744.8	750.4	756.8
17.5°	731.1	730.7	733.2	735.8	732.8	738.8	745.7
20°	715.7	715.7	718.7	721.7	719.5	725.1	732.8
22.5°	699.3	697.6	702.8	704.9	703.6	709.2	716.9
25°	678.8	678.3	683.5	686.5	684.8	690.8	697.6
27.5°	656.4	656.0	661.2	665.0	664.2	669.7	677.5
30°	629.4	631.6	636.3	642.7	640.6	646.6	654.7
32.5°	601.1	603.2	608.8	615.7	616.1	620.8	629.0
35°	567.2	572.8	576.6	585.7	587.4	592.1	600.7
37.5°	531.6	538.0	546.2	553.0	556.5	560.3	570.2
40°	491.7	501.1	510.1	518.3	522.6	526.4	535.9
42.5°	455.6	462.9	471.5	479.7	487.4	490.8	500.7
45°	414.9	423.5	431.2	441.1	448.8	452.6	462.5
47.5°	375.0	383.6	393.9	400.7	408.9	412.7	422.2
50°	336.8	344.5	353.1	361.3	368.1	371.6	379.7
52.5°	299.0	307.2	315.4	320.5	327.8	330.4	337.2
55°	265.6	271.2	278.5	281.5	288.7	290.5	295.2
57.5°	233.4	237.3	239.8	245.0	250.1	254.0	259.6
60°	204.2	205.9	207.7	210.7	215.0	216.2	218.4
62.5°	178.1	177.6	181.1	181.9	182.3	186.6	184.5
65°	154.9	155.3	152.3	151.0	152.7	154.0	153.2
67.5°	135.6	133.0	130.4	127.4	124.9	126.1	124.9
70°	116.7	114.6	110.3	106.0	104.3	101.7	100.4
72.5°	101.7	96.5	92.2	86.7	83.7	80.7	78.5
75°	90.1	82.8	76.8	70.8	66.5	62.2	61.4
77.5°	78.1	71.2	64.4	57.9	51.5	46.8	45.1
80°	68.6	62.2	54.1	46.3	39.5	33.5	31.3
82.5°	60.1	53.2	45.1	36.9	29.2	22.7	20.2
85°	52.8	45.5	37.3	29.2	21.5	14.6	11.2
87.5°	47.2	39.0	30.9	23.2	15.0	8.2	4.3
90°	42.0	34.3	26.6	18.4	10.7	4.3	0.0
92.5°	37.3	30.0	22.3	15.0	8.2	2.6	0.4
95°	33.0	26.6	18.9	12.0	6.0	1.7	0.4
97.5°	29.6	23.2	16.3	9.9	4.7	1.3	0.4
100°	26.6	20.2	14.2	8.2	3.9	0.9	0.4
102.5°	23.6	18.0	12.0	6.9	3.0	0.4	0.4
105°	21.0	15.9	10.3	6.0	2.6	0.4	0.4
107.5°	18.9	14.2	9.0	5.1	1.7	0.4	0.4
110°	16.7	12.0	7.7	4.3	1.3	0.4	0.4



TEST NUMBER: P1213327

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	15.0	10.7	6.9	3.4	0.9	0.4	0.4
115°	13.3	9.4	6.0	3.0	0.9	0.4	0.4
117.5°	11.6	8.2	5.1	2.1	0.4	0.4	0.4
120°	10.3	7.3	4.3	1.7	0.4	0.4	0.4
122.5°	9.0	6.0	3.4	1.3	0.4	0.4	0.4
125°	7.7	5.1	3.0	0.9	0.4	0.4	0.4
127.5°	6.4	4.3	2.1	0.9	0.4	0.4	0.4
130°	5.6	3.4	1.7	0.4	0.4	0.4	0.4
132.5°	4.7	2.6	1.3	0.4	0.4	0.4	0.4
135°	3.9	2.1	0.9	0.4	0.4	0.4	0.4
137.5°	3.0	1.7	0.9	0.4	0.4	0.4	0.4
140°	2.1	1.3	0.4	0.4	0.4	0.4	0.4
142.5°	1.7	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)