

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: P1212976

Luminaire Tested: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212976
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

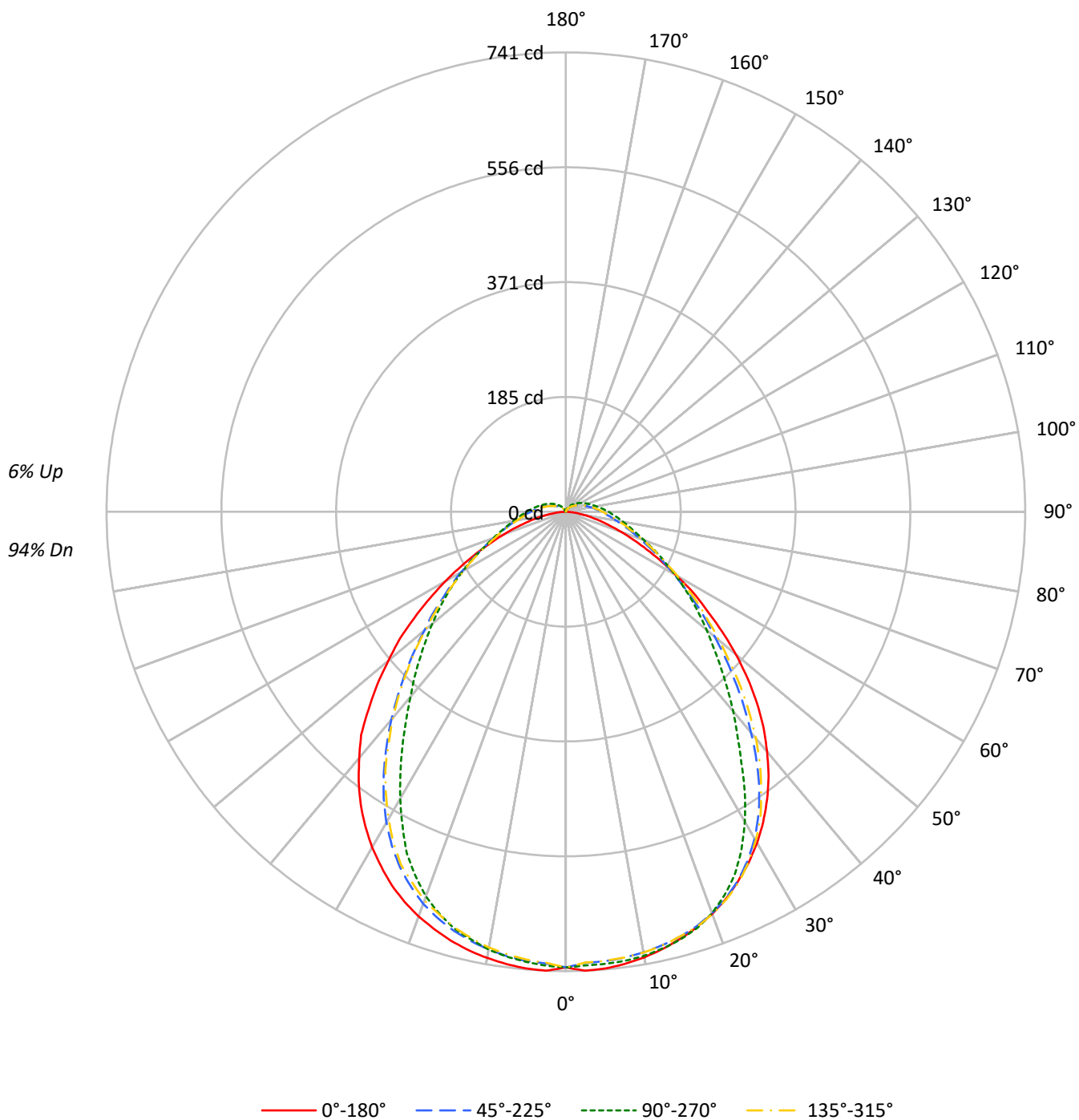
Lumens per Lamp: N/A
Luminaire Lumens: 1860.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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°	11879	11879	11879	11879
5°	11931	11500	11931	11449
10°	11845	11195	11864	11040
15°	11735	10860	11789	10577
20°	11612	10430	11679	9990
25°	11390	9792	11516	9215
30°	11112	8855	11258	8197
35°	10699	7706	10905	7176
40°	10122	6739	10390	6253
45°	9375	5858	9680	5522
50°	8373	5147	8740	4889
55°	7194	4546	7719	4316
60°	6003	3992	6545	3761
65°	4866	3530	5359	3271
70°	3815	3131	4271	2896
75°	2927	2892	3296	2661
80°	2027	2790	2391	2549
85°	1136	2804	1525	2580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 9680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	3.7
10°-20°	199.8	10.7
20°-30°	296.1	15.9
30°-40°	329.0	17.7
40°-50°	298.2	16.0
50°-60°	231.1	12.4
60°-70°	156.9	8.4
70°-80°	99.8	5.4
80°-90°	63.8	3.4
90°-100°	43.0	2.3
100°-110°	29.5	1.6
110°-120°	19.7	1.1
120°-130°	12.2	0.7
130°-140°	6.8	0.4
140°-150°	3.2	0.2
150°-160°	1.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	565.6	30.4
0°-40°	894.6	48.1
0°-60°	1423.8	76.6
0°-90°	1744.4	93.8
90°-120°	92.2	5.0
90°-150°	114.3	6.1
90°-180°	116.0	6.2
0°-180°	1860.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	735	735	735	735	735	
5°	739	732	739	729	739	70
15°	713	714	716	696	713	201
25°	657	645	665	607	657	303
35°	566	493	577	459	566	353
45°	436	352	450	332	436	335
55°	278	248	298	235	278	250
65°	144	167	159	154	144	145
75°	58	111	65	102	58	62
85°	10	80	14	74	10	13
90°	0	69	1	63	0	1
95°	0	59	0	55	0	0
105°	0	43	0	41	0	0
115°	0	33	0	30	0	0
125°	0	24	0	21	0	0
135°	0	17	0	14	0	0
145°	0	11	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°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	741.0	740.2	739.4	738.2	739.4	742.6	740.6	736.2	735.4	728.1	731.3
5°	739.4	738.2	737.4	736.2	737.8	741.8	739.8	735.8	734.6	727.7	731.3
7.5°	735.4	734.6	733.3	733.3	735.0	739.0	737.4	732.9	732.1	725.3	729.3
10°	729.7	729.3	728.5	728.5	730.1	735.0	732.9	728.9	728.1	721.6	726.1
12.5°	722.4	722.8	721.6	721.6	724.0	728.9	727.3	722.8	722.0	716.4	720.8
15°	713.1	713.5	712.7	713.1	715.6	721.2	719.2	715.2	714.3	709.9	713.5
17.5°	702.6	703.0	703.0	702.6	705.5	711.1	709.5	705.9	704.6	701.0	705.5
20°	690.5	690.5	690.5	690.5	693.7	699.4	697.4	694.5	692.1	689.3	692.9
22.5°	675.5	675.1	675.5	676.7	680.0	684.4	683.2	680.0	676.3	674.7	677.6
25°	657.3	658.6	659.0	660.2	664.2	667.9	666.6	663.4	657.7	656.5	657.3
27.5°	638.3	639.2	640.4	640.0	645.6	649.3	646.8	644.0	635.9	634.7	633.9
30°	616.9	618.1	618.9	618.5	623.0	627.0	624.6	621.0	610.0	609.2	602.8
32.5°	592.7	593.9	594.7	594.7	601.2	602.8	598.3	593.1	581.3	578.5	572.9
35°	566.0	567.2	567.6	567.6	574.1	573.7	568.0	560.7	547.8	544.1	534.4
37.5°	537.3	538.1	538.5	540.9	543.7	541.3	534.0	524.7	515.0	504.9	494.4
40°	504.9	506.1	507.0	508.6	511.4	508.6	498.1	486.7	476.2	464.9	454.4
42.5°	471.8	475.4	474.6	474.2	475.8	468.1	460.1	447.1	436.6	424.9	414.4
45°	435.8	435.4	437.4	438.2	437.8	431.4	420.0	408.3	397.8	385.7	376.8
47.5°	397.8	397.4	399.0	399.8	397.4	390.5	381.6	368.3	359.4	348.9	342.0
50°	357.8	357.8	360.2	357.8	356.6	349.7	342.4	329.1	322.2	312.9	308.9
52.5°	317.8	321.4	319.0	318.2	316.9	310.1	304.4	293.5	287.8	283.8	278.9
55°	278.1	282.2	280.6	279.4	278.9	273.3	268.0	259.9	256.3	253.5	250.6
57.5°	244.6	244.2	243.4	242.2	242.6	238.1	232.9	228.4	226.8	225.6	226.4
60°	205.8	209.0	207.8	208.2	208.6	207.8	203.3	200.5	200.9	201.3	202.5
62.5°	173.8	176.7	178.7	177.1	177.9	179.1	176.7	175.9	177.5	179.1	180.7
65°	144.3	147.2	149.2	148.8	151.2	153.6	153.2	154.0	157.7	159.7	161.7
67.5°	117.6	120.5	123.3	123.7	127.3	131.0	132.6	135.4	139.5	142.3	144.7
70°	94.6	97.0	100.3	102.3	107.1	112.0	114.8	120.5	122.9	126.9	128.6
72.5°	74.0	76.0	80.4	85.3	89.3	95.4	101.1	105.9	109.6	114.0	116.0
75°	57.8	58.6	63.5	69.1	74.8	81.7	87.7	93.0	97.8	102.3	105.5
77.5°	42.4	43.7	48.1	55.8	62.3	69.5	76.4	82.1	87.3	91.8	96.2
80°	29.5	31.9	36.8	44.5	51.7	59.8	66.3	72.8	78.4	82.9	87.3
82.5°	19.0	21.0	27.9	35.6	43.3	51.3	58.2	64.7	70.7	75.6	79.6
85°	10.5	13.3	20.2	28.3	36.0	44.1	51.3	57.8	63.9	68.3	72.4
87.5°	4.0	8.1	14.6	22.2	29.9	37.6	45.3	51.3	57.4	62.3	65.9
90°	0.0	4.9	10.9	18.6	26.3	34.0	41.2	47.7	53.4	57.8	61.9
92.5°	0.4	3.2	8.5	15.0	22.2	29.5	36.4	42.9	48.5	53.0	56.6
95°	0.4	2.4	6.9	12.9	19.4	26.3	32.7	38.8	44.1	48.5	52.2
97.5°	0.4	1.6	5.7	11.3	17.0	23.9	29.9	35.6	40.4	44.9	47.7
100°	0.4	1.6	4.9	9.7	15.4	21.4	27.1	32.7	37.2	40.8	44.1
102.5°	0.4	1.2	4.0	8.5	13.7	19.0	24.7	29.9	34.0	37.6	40.8
105°	0.4	1.2	3.6	7.3	12.1	17.4	22.2	27.1	31.5	34.8	37.6
107.5°	0.4	0.8	3.2	6.1	10.5	15.8	20.6	24.7	28.7	31.9	34.8
110°	0.4	0.8	2.8	5.7	9.3	14.1	18.6	22.6	26.3	29.5	31.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.8	2.4	5.3	8.5	12.5	17.0	20.6	24.3	27.1	29.5
115°	0.4	0.8	2.4	4.9	7.7	10.9	15.0	19.0	21.8	25.1	27.1
117.5°	0.4	0.8	2.0	4.0	7.3	10.1	13.7	17.0	20.2	23.0	25.1
120°	0.4	0.8	2.0	3.6	6.5	9.3	12.1	15.4	18.6	20.6	22.6
122.5°	0.4	0.8	1.6	3.6	5.7	8.5	10.9	13.7	16.6	19.0	21.0
125°	0.4	0.8	1.6	3.2	5.3	7.7	10.1	12.1	15.0	17.0	19.0
127.5°	0.4	0.8	1.6	2.8	4.9	6.9	9.3	11.3	13.3	15.4	17.0
130°	0.4	0.8	1.2	2.4	4.4	6.1	8.1	10.5	12.1	13.7	15.4
132.5°	0.4	0.8	1.2	2.4	3.6	5.3	7.3	9.3	10.9	12.5	13.7
135°	0.4	0.8	1.2	2.0	3.2	4.9	6.1	8.1	9.7	11.3	12.5
137.5°	0.4	0.8	1.2	2.0	2.8	4.0	5.3	6.9	8.5	9.7	11.3
140°	0.4	0.8	1.2	1.6	2.4	3.6	4.9	5.7	7.3	8.5	9.7
142.5°	0.4	0.8	1.2	1.6	2.4	3.2	4.0	4.9	6.1	7.3	8.5
145°	0.4	0.8	1.2	1.6	2.0	2.8	3.6	4.4	4.9	6.1	6.9
147.5°	0.4	0.8	1.2	1.6	1.6	2.4	3.2	3.6	4.4	4.9	5.7
150°	0.4	0.8	1.2	1.2	1.6	2.0	2.8	3.2	3.6	4.4	4.9
152.5°	0.4	0.8	1.2	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
155°	0.4	0.8	1.2	1.2	1.2	1.6	2.0	2.4	2.8	3.2	3.6
157.5°	0.8	0.8	0.8	1.2	1.2	1.6	1.6	2.0	2.4	2.4	2.8
160°	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	2.0	2.0	2.4
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	730.5	731.7	735.4	735.4	734.6	733.8	733.8	732.5	733.3	735.0	734.2
5°	730.5	731.7	735.4	735.4	734.6	733.8	733.3	732.1	733.3	735.0	734.2
7.5°	728.1	729.7	733.3	733.3	732.5	732.1	731.3	730.5	731.7	733.3	732.5
10°	724.9	726.5	730.1	730.1	729.3	729.3	728.1	727.3	728.9	730.1	729.7
12.5°	720.0	722.0	725.3	724.9	724.0	724.5	723.2	721.6	723.2	724.5	724.9
15°	713.1	715.6	718.8	718.0	716.8	717.6	715.6	714.3	715.6	718.0	717.6
17.5°	704.2	705.9	708.3	708.3	707.1	706.3	705.5	704.2	705.0	706.7	707.1
20°	691.7	693.7	694.9	693.7	693.3	692.1	690.5	689.3	690.9	693.3	693.7
22.5°	675.1	675.5	678.4	675.5	673.5	673.1	671.5	669.1	671.5	673.5	673.9
25°	654.5	656.5	655.3	650.5	650.5	647.2	646.4	645.2	645.6	649.3	650.9
27.5°	628.2	629.0	625.8	621.8	618.1	616.1	613.3	613.7	613.7	618.5	620.2
30°	599.5	595.1	592.3	585.8	583.0	578.1	577.3	577.3	576.5	578.9	586.2
32.5°	565.2	559.1	554.7	548.6	543.7	538.9	536.5	537.7	537.3	543.3	545.8
35°	527.6	523.9	514.6	507.0	504.1	496.8	496.8	493.2	495.6	502.5	505.3
37.5°	488.0	482.3	474.6	466.1	464.1	458.4	456.4	454.4	459.7	460.9	463.7
40°	447.5	442.3	435.0	426.9	426.9	420.0	420.0	420.0	420.4	422.9	428.1
42.5°	409.1	403.5	397.0	391.3	390.5	385.3	385.3	384.9	385.7	387.7	392.5
45°	371.9	367.5	360.6	357.8	358.2	352.5	353.7	352.5	354.1	356.2	357.8
47.5°	337.6	334.7	331.9	327.9	326.7	326.2	324.2	322.6	325.4	325.4	327.9
50°	305.6	304.0	302.4	300.0	300.4	298.8	296.3	296.3	298.4	298.8	300.4
52.5°	277.7	275.7	273.7	274.1	274.5	273.7	272.5	271.3	272.5	273.3	275.3
55°	249.8	248.2	250.2	249.4	250.2	249.4	248.6	247.8	249.8	248.6	250.6
57.5°	224.8	226.4	227.2	225.6	226.8	226.0	226.4	225.2	226.8	227.6	227.2
60°	201.7	204.2	202.9	203.3	205.0	204.2	202.5	203.8	205.4	205.8	205.4
62.5°	180.7	183.5	184.8	183.9	184.3	183.5	184.8	183.1	185.2	186.0	184.8
65°	161.7	164.9	165.8	165.8	165.8	164.9	166.2	166.6	167.4	167.4	166.6
67.5°	145.5	148.4	149.2	150.0	149.2	148.4	148.4	148.8	150.4	151.2	150.4
70°	131.0	133.8	134.2	134.2	134.6	135.4	133.8	134.6	135.8	136.2	135.8
72.5°	118.5	121.3	122.1	121.7	122.1	122.5	122.5	121.7	122.9	123.7	123.7
75°	108.3	110.0	110.8	110.8	111.2	111.6	111.6	111.2	112.0	112.4	112.8
77.5°	99.0	100.3	101.5	101.5	101.9	101.5	102.3	102.3	102.7	103.1	103.5
80°	89.7	91.4	92.2	92.6	93.4	93.8	93.8	93.8	94.2	94.6	94.6
82.5°	82.5	83.7	84.9	86.1	86.1	86.5	86.5	86.5	86.9	86.9	87.3
85°	75.2	76.8	78.0	78.8	79.2	79.6	79.6	80.0	80.0	80.0	80.4
87.5°	68.7	70.7	71.6	72.4	72.8	73.6	73.6	73.6	74.0	74.0	74.0
90°	64.3	66.3	67.1	67.9	68.3	68.7	68.7	69.1	69.1	69.5	69.5
92.5°	59.0	61.0	62.7	62.7	63.1	63.9	63.5	63.5	63.9	64.3	64.3
95°	55.0	56.6	57.8	58.2	58.6	58.6	58.6	59.0	58.6	59.0	59.0
97.5°	50.1	51.7	53.0	53.8	54.2	54.2	54.2	54.6	54.2	54.6	54.6
100°	46.1	47.7	48.9	49.3	50.1	50.1	50.1	50.1	50.1	50.1	50.5
102.5°	42.9	44.5	45.3	45.7	46.1	46.5	46.5	46.5	46.5	46.9	46.9
105°	39.6	41.2	42.0	42.4	42.9	43.3	43.3	43.3	43.7	43.7	43.3
107.5°	36.8	38.0	38.8	39.6	40.0	40.0	40.4	40.4	40.4	40.4	40.4
110°	34.0	35.2	36.4	37.2	37.2	37.6	37.6	38.0	38.0	37.6	38.0

TEST NUMBER: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	31.1	32.7	33.6	34.4	34.8	35.2	35.2	35.2	35.2	35.2	35.2
115°	28.7	30.3	31.1	31.9	32.3	32.7	32.7	32.7	32.7	32.7	32.7
117.5°	26.7	28.3	29.1	29.5	29.9	30.3	30.7	30.7	30.7	30.7	30.3
120°	24.7	25.9	26.7	27.5	27.9	28.3	28.3	28.3	28.3	28.3	28.3
122.5°	22.6	23.9	24.7	25.5	25.9	26.3	26.3	26.3	26.3	26.3	26.3
125°	20.6	21.8	22.6	23.4	23.9	24.3	24.3	24.3	24.3	24.3	24.3
127.5°	18.6	19.8	21.0	21.4	21.8	22.2	22.2	22.2	22.6	22.2	22.2
130°	16.6	17.8	19.0	19.4	19.8	20.2	20.6	20.6	20.6	20.6	20.2
132.5°	15.0	16.2	17.0	17.4	18.2	18.2	18.6	18.6	18.6	18.6	18.2
135°	13.7	14.6	15.4	15.8	16.6	16.6	16.6	17.0	17.0	16.6	16.2
137.5°	12.1	12.9	13.7	14.1	14.6	15.0	15.0	15.4	15.0	15.0	15.0
140°	11.3	11.7	12.5	12.9	13.3	13.3	13.3	13.7	13.7	13.3	13.3
142.5°	9.7	10.5	11.3	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1
145°	8.1	9.3	9.7	10.5	10.5	10.9	10.9	10.9	10.9	10.9	10.5
147.5°	6.9	7.7	8.9	9.3	9.3	9.7	9.7	9.7	9.7	9.7	9.3
150°	5.3	6.1	7.3	8.1	8.1	8.5	8.5	8.5	8.5	8.1	8.1
152.5°	4.4	5.3	5.7	6.5	6.9	6.9	6.9	7.3	6.9	6.9	6.9
155°	4.0	4.4	4.9	5.3	5.7	6.1	6.1	6.1	6.1	5.7	5.7
157.5°	3.2	3.6	4.0	4.4	4.9	5.3	5.3	5.3	5.3	5.3	4.9
160°	2.4	2.8	3.2	3.2	3.6	4.0	4.4	4.0	4.0	4.0	4.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	733.3	732.9	734.2	732.1	726.1	727.7	726.9	730.5	731.3	732.1	735.8
5°	733.3	732.9	733.8	732.1	725.7	726.9	726.1	729.7	730.5	730.9	734.6
7.5°	731.7	731.3	732.5	730.5	723.6	725.3	724.0	727.7	728.1	728.5	731.7
10°	728.5	728.1	728.9	727.3	720.4	722.0	720.4	724.0	724.0	724.9	727.3
12.5°	723.6	722.8	724.5	722.4	714.8	716.8	716.0	718.4	718.8	719.2	721.6
15°	716.8	716.0	717.2	716.0	709.1	709.5	708.3	711.9	712.3	711.5	713.9
17.5°	706.7	705.9	708.3	707.5	700.6	702.2	701.8	702.6	703.8	701.8	705.0
20°	694.1	694.9	695.7	696.2	690.9	690.9	690.5	692.1	693.3	691.7	694.1
22.5°	675.5	677.6	680.0	680.8	677.2	676.7	679.2	678.4	679.6	678.8	680.4
25°	652.1	656.1	658.6	661.0	659.0	659.8	663.4	664.2	664.2	663.8	665.4
27.5°	623.0	628.2	632.7	637.9	635.9	637.5	643.6	644.4	646.0	644.4	647.6
30°	588.2	593.1	601.6	609.2	610.0	612.5	621.0	621.8	626.2	624.6	625.8
32.5°	553.4	555.9	565.6	573.3	578.1	584.2	593.5	595.1	601.2	602.4	602.4
35°	509.8	516.7	525.6	536.5	542.5	549.0	561.5	564.0	572.9	575.7	578.9
37.5°	473.0	479.5	485.1	496.4	507.4	514.6	524.7	530.8	540.1	545.4	549.4
40°	433.8	439.0	445.1	456.4	465.7	476.6	486.7	494.0	505.7	511.8	517.1
42.5°	396.6	400.6	407.1	415.2	424.9	437.0	446.7	455.2	467.7	476.2	482.3
45°	363.4	365.9	371.5	377.6	386.1	398.6	407.9	418.8	428.9	437.8	445.1
47.5°	332.3	335.5	338.4	342.4	350.1	357.8	368.7	379.2	389.3	399.0	406.3
50°	303.6	303.6	308.1	310.9	316.1	323.0	331.5	338.8	351.3	358.2	367.5
52.5°	275.7	277.3	279.8	281.4	285.4	289.9	296.7	302.8	313.3	319.8	328.7
55°	251.1	252.7	253.9	254.7	257.1	262.4	264.8	269.6	276.9	282.2	289.9
57.5°	227.6	228.4	229.6	230.0	230.4	233.7	235.7	236.9	244.2	249.4	255.9
60°	206.2	206.2	207.4	207.0	206.6	208.2	207.8	209.0	213.5	216.7	219.5
62.5°	186.0	186.0	186.4	185.6	185.2	185.2	183.5	184.8	186.0	186.4	188.4
65°	167.4	169.4	167.8	168.2	165.8	164.9	164.1	161.7	161.3	159.7	160.5
67.5°	150.8	152.4	150.8	150.8	148.8	147.2	145.1	141.1	139.9	136.6	135.8
70°	137.5	136.2	137.0	135.8	133.4	131.4	128.6	125.3	121.3	117.2	114.4
72.5°	124.5	124.5	123.7	122.5	121.3	117.2	114.0	110.4	105.5	100.3	96.2
75°	112.0	112.4	112.4	111.2	109.2	105.5	101.9	96.6	91.4	85.3	80.0
77.5°	103.1	103.1	103.1	101.1	99.0	95.8	91.4	85.7	80.0	72.8	66.7
80°	94.6	94.2	94.2	91.8	89.7	86.1	81.7	76.0	69.9	62.3	55.4
82.5°	87.7	87.3	86.5	84.5	81.7	78.0	73.6	67.5	61.0	54.2	45.7
85°	80.4	80.0	79.2	77.2	74.4	71.2	66.3	60.2	53.8	46.1	38.0
87.5°	74.0	73.6	72.4	71.2	67.9	64.3	59.4	53.8	46.9	39.6	31.5
90°	69.5	68.7	67.9	66.3	63.5	59.4	54.6	48.5	41.6	34.4	26.3
92.5°	64.3	63.9	62.7	61.0	58.6	54.6	49.7	44.1	37.2	30.3	22.6
95°	59.0	58.6	57.8	56.2	53.8	50.1	45.7	40.0	33.6	26.7	19.8
97.5°	54.2	54.2	53.0	51.7	48.9	46.1	41.6	36.4	30.3	24.3	17.8
100°	50.1	50.1	48.9	47.3	45.3	42.4	38.0	33.2	27.5	21.8	15.4
102.5°	46.5	46.1	45.3	43.7	41.6	38.8	34.8	30.3	25.1	19.4	13.7
105°	43.3	42.9	42.0	40.4	38.8	35.6	32.3	27.9	22.6	17.4	12.1
107.5°	40.0	39.6	39.2	37.6	35.6	32.7	29.5	25.1	20.6	15.8	10.9
110°	37.2	36.8	36.0	34.4	32.3	29.9	26.7	23.0	18.6	14.1	9.7

TEST NUMBER: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	34.8	34.4	33.6	31.9	30.3	27.5	24.7	20.6	17.0	12.9	8.5
115°	32.3	31.9	31.1	29.5	27.5	25.1	22.2	19.0	15.0	11.3	7.7
117.5°	29.9	29.5	28.7	27.5	25.5	23.0	20.2	17.0	13.3	10.5	6.9
120°	27.9	27.1	26.3	25.1	23.0	21.0	18.2	15.4	12.1	9.3	6.1
122.5°	25.9	25.1	24.3	23.0	21.0	19.0	16.2	13.7	11.3	8.5	5.7
125°	23.4	23.0	22.2	21.0	19.0	17.0	15.0	12.5	10.1	7.7	4.9
127.5°	21.4	21.0	20.2	18.6	17.0	15.4	13.3	11.3	8.9	6.5	4.4
130°	19.8	19.0	18.2	17.0	15.8	14.1	12.1	10.1	8.1	5.7	4.0
132.5°	17.8	17.0	16.2	15.4	14.1	12.5	10.9	8.9	7.3	5.3	3.6
135°	16.2	15.4	14.6	13.7	12.5	11.3	9.7	8.1	6.5	4.9	3.2
137.5°	14.1	13.7	13.3	12.5	11.3	10.1	8.9	6.9	5.7	4.4	2.8
140°	12.9	12.5	12.1	10.9	10.1	8.9	7.7	6.1	4.9	3.6	2.4
142.5°	11.7	11.3	10.5	9.7	8.9	8.1	6.5	5.7	4.4	3.2	2.4
145°	10.1	9.7	9.3	8.5	7.7	6.5	5.7	4.9	4.0	2.8	2.0
147.5°	9.3	8.9	8.1	7.3	6.5	5.7	5.3	4.4	3.2	2.4	1.6
150°	7.7	7.3	6.9	6.1	5.7	5.3	4.4	3.6	2.8	2.0	1.6
152.5°	6.5	6.1	5.7	5.7	4.9	4.4	3.6	3.2	2.4	2.0	1.2
155°	5.7	5.7	5.3	4.9	4.0	3.6	3.2	2.4	2.0	1.6	1.2
157.5°	4.9	4.4	4.0	4.0	3.6	3.2	2.4	2.0	1.6	1.6	1.2
160°	4.0	3.6	3.6	3.2	2.8	2.4	2.0	2.0	1.6	1.2	1.2
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: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	736.2	731.7	735.8	741.0	741.0	740.2	739.4	741.0	745.1	743.5	738.6
5°	735.0	730.5	734.2	739.4	739.4	738.2	737.4	738.6	743.0	741.0	736.6
7.5°	732.5	728.5	730.9	735.8	735.8	734.6	733.8	735.4	739.0	737.0	732.1
10°	728.1	723.6	726.5	730.9	730.5	729.7	728.5	730.5	733.8	730.9	725.3
12.5°	722.4	718.0	720.4	724.5	724.0	722.4	721.6	722.8	725.7	724.0	718.0
15°	714.8	710.3	712.3	716.4	715.2	713.9	712.3	712.7	716.4	713.5	707.1
17.5°	705.5	700.6	702.2	705.9	704.6	703.4	701.4	701.8	705.9	701.8	694.9
20°	694.1	688.9	690.1	694.5	692.5	690.5	688.5	688.5	692.5	688.1	680.4
22.5°	682.0	676.7	677.6	680.8	679.2	675.5	673.5	674.7	676.7	671.1	663.0
25°	667.0	660.2	661.4	664.6	663.4	658.6	656.5	657.3	656.5	652.1	643.6
27.5°	649.7	642.4	643.2	645.2	643.6	639.2	636.7	637.1	635.5	629.9	620.2
30°	627.8	624.2	623.8	625.0	622.6	618.1	615.3	614.5	614.1	606.0	594.3
32.5°	605.6	602.4	600.3	602.0	599.1	594.7	589.8	589.8	585.8	578.1	568.0
35°	583.0	577.7	575.7	576.9	573.7	568.0	564.0	561.9	555.9	546.2	535.3
37.5°	553.9	550.2	547.8	549.0	545.4	541.3	533.6	531.6	525.1	511.8	498.1
40°	522.3	519.5	517.1	518.3	514.2	508.2	501.3	498.1	490.8	475.8	464.9
42.5°	488.4	487.1	484.3	488.8	480.7	474.6	467.7	462.5	455.2	439.0	426.5
45°	452.4	455.2	448.7	450.0	444.7	439.4	432.2	424.5	417.2	401.8	387.7
47.5°	414.4	416.4	412.0	412.8	407.1	402.2	395.8	386.1	378.0	364.7	352.1
50°	375.2	374.4	374.4	373.5	369.1	363.0	356.6	347.7	339.6	327.5	316.9
52.5°	333.5	335.1	335.9	338.0	332.3	328.7	318.6	310.9	304.8	292.3	283.4
55°	293.5	299.2	297.5	298.4	291.9	289.1	281.0	274.9	266.0	258.7	253.1
57.5°	257.1	258.3	259.1	260.4	257.5	251.9	245.4	240.5	233.7	227.6	223.6
60°	221.9	221.9	222.3	224.4	221.5	216.7	211.8	208.2	203.3	199.7	197.3
62.5°	188.8	191.6	192.0	190.4	186.8	184.3	181.1	179.1	175.9	174.6	173.8
65°	158.1	158.1	158.1	158.9	156.9	155.2	153.2	152.8	154.0	152.4	153.2
67.5°	132.2	131.0	130.2	130.6	129.8	129.0	128.6	129.8	132.2	132.2	134.2
70°	110.0	107.5	105.9	105.9	105.9	106.3	107.5	110.0	114.0	115.6	118.5
72.5°	91.8	86.5	84.1	84.1	84.5	86.1	89.7	94.2	97.8	101.1	104.7
75°	74.4	69.1	65.5	65.1	65.9	68.3	73.6	77.6	83.7	88.1	92.6
77.5°	60.2	53.8	49.3	48.9	50.1	53.8	60.2	65.5	72.4	77.2	82.1
80°	48.1	40.8	37.2	34.8	36.8	41.2	48.5	55.0	61.4	67.9	74.0
82.5°	38.4	31.5	25.9	23.4	25.9	31.9	38.8	46.5	53.0	59.8	65.9
85°	30.3	23.0	16.6	14.1	17.0	23.4	31.1	38.8	46.1	53.0	59.0
87.5°	23.9	16.6	10.1	6.9	10.5	17.4	24.7	32.3	40.0	46.9	53.0
90°	18.6	11.7	5.7	0.8	6.1	12.5	19.8	27.1	34.8	41.6	47.7
92.5°	15.8	8.9	3.2	0.0	3.6	9.3	16.2	23.4	30.3	37.2	43.3
95°	13.3	7.3	2.4	0.0	2.4	7.3	13.3	19.8	26.7	33.6	39.6
97.5°	11.3	5.7	1.6	0.0	1.6	5.7	10.9	17.4	23.4	29.9	35.6
100°	9.7	4.9	1.2	0.0	1.2	4.4	9.3	15.0	21.0	27.1	32.3
102.5°	8.5	4.0	0.8	0.0	0.8	3.6	7.7	12.9	18.2	23.9	29.1
105°	7.3	3.2	0.8	0.0	0.4	2.8	6.5	11.3	16.2	21.4	26.3
107.5°	6.5	2.8	0.8	0.0	0.4	2.4	5.7	9.7	14.6	19.0	23.4
110°	5.7	2.4	0.8	0.0	0.4	1.6	4.9	8.5	12.5	17.0	21.4

TEST NUMBER: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.9	2.0	0.4	0.0	0.0	1.2	4.0	7.3	10.9	15.4	19.0
115°	4.4	2.0	0.4	0.0	0.0	0.8	3.2	6.5	9.7	13.7	17.0
117.5°	4.0	1.6	0.4	0.0	0.4	0.8	2.8	5.7	8.5	11.7	15.4
120°	3.6	1.6	0.4	0.0	0.4	0.4	2.0	4.9	7.3	10.5	13.3
122.5°	3.2	1.6	0.4	0.0	0.4	0.4	1.6	4.0	6.5	9.3	11.7
125°	2.8	1.2	0.8	0.4	0.4	0.4	1.2	3.2	5.7	7.7	10.5
127.5°	2.8	1.2	0.8	0.4	0.4	0.4	0.8	2.8	4.4	6.9	9.3
130°	2.4	1.2	0.8	0.4	0.4	0.4	0.4	2.0	4.0	5.7	7.7
132.5°	2.0	1.2	0.8	0.4	0.4	0.4	0.4	1.2	2.8	4.9	6.5
135°	2.0	1.2	0.8	0.4	0.4	0.4	0.4	0.8	2.0	3.6	5.3
137.5°	1.6	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.6	2.8	4.0
140°	1.6	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.2	2.0	3.2
142.5°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.6	2.4
145°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.6
147.5°	1.2	1.2	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
150°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
152.5°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
155°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
157.5°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
160°	1.2	0.8	0.8	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8
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: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	737.0	729.3	733.3	732.1	733.8	737.0	736.6	735.8	735.8	734.6	732.9
5°	734.6	727.3	730.9	728.9	730.9	733.8	733.3	732.1	732.9	730.9	728.9
7.5°	729.7	723.2	726.5	724.9	726.5	729.3	728.1	727.7	728.5	725.3	724.0
10°	724.0	716.8	720.4	718.4	720.4	722.4	721.6	720.0	721.6	718.4	717.2
12.5°	715.2	709.1	711.5	710.7	711.9	713.9	712.3	711.1	711.9	709.1	706.7
15°	705.5	699.4	701.4	700.2	701.0	703.4	700.6	700.2	699.4	696.6	695.7
17.5°	692.9	687.3	689.3	687.3	688.5	687.7	687.3	685.2	685.2	682.0	679.6
20°	677.6	672.7	671.5	669.9	671.5	669.9	667.5	665.8	665.4	662.2	660.2
22.5°	659.8	654.1	654.9	650.5	650.9	648.4	644.4	642.8	641.2	637.5	634.7
25°	638.3	632.7	628.6	625.8	622.2	621.8	616.5	612.5	612.1	607.6	607.2
27.5°	614.1	607.6	604.4	597.5	593.1	589.4	585.0	580.9	578.9	574.1	570.8
30°	586.2	578.9	570.8	566.0	559.1	556.3	548.6	543.7	542.1	536.9	534.4
32.5°	554.7	547.0	540.5	531.2	523.5	519.5	511.8	507.0	504.9	499.3	496.0
35°	520.3	511.8	504.1	495.2	489.2	482.3	473.0	468.1	463.7	461.7	459.3
37.5°	484.3	475.0	466.1	457.2	452.0	443.9	435.8	432.6	427.3	425.3	422.9
40°	447.1	437.8	429.3	420.8	414.8	407.5	400.2	399.0	393.4	391.3	389.7
42.5°	410.3	400.6	390.9	384.9	380.4	373.1	368.3	367.1	362.2	361.0	361.0
45°	377.2	365.1	357.0	351.7	348.1	342.0	338.0	337.2	333.1	332.3	332.3
47.5°	341.6	330.3	324.2	321.0	317.8	313.3	310.9	310.9	306.8	306.0	305.6
50°	308.5	297.9	293.5	290.3	289.9	286.6	284.6	283.8	283.8	281.0	281.4
52.5°	276.9	271.7	268.0	266.0	263.6	261.6	259.9	259.9	258.7	256.7	257.5
55°	247.8	241.8	242.2	240.5	239.3	238.1	238.5	236.1	235.7	234.1	235.3
57.5°	218.7	218.7	217.9	216.7	214.7	215.5	215.5	215.5	213.5	212.2	213.5
60°	194.0	195.3	193.2	194.5	193.6	194.0	193.2	193.2	192.0	191.6	192.0
62.5°	172.2	174.2	173.4	175.0	174.2	174.6	175.5	173.8	173.0	172.2	173.0
65°	152.8	155.2	154.8	156.0	156.5	156.9	157.3	156.5	155.6	154.8	154.4
67.5°	135.8	138.3	139.9	140.3	140.7	141.9	141.5	140.7	139.9	138.7	138.3
70°	120.5	123.7	125.7	126.5	128.2	127.3	127.3	126.9	126.1	124.9	124.5
72.5°	107.5	111.2	113.2	114.0	115.6	115.6	115.2	114.8	114.0	112.8	112.4
75°	96.2	99.5	102.3	103.9	105.1	105.1	104.7	104.3	103.5	102.7	102.3
77.5°	87.3	90.2	92.6	94.6	95.4	95.8	95.4	94.6	94.6	94.2	93.8
80°	78.4	81.7	84.1	86.1	87.3	87.3	86.9	87.3	86.5	86.1	85.7
82.5°	70.7	74.4	77.2	79.2	80.0	80.4	80.0	80.4	79.6	79.6	79.6
85°	63.9	67.5	70.7	72.4	73.6	74.0	74.0	74.0	73.6	73.6	73.6
87.5°	58.2	61.9	65.1	66.7	67.9	68.3	68.3	68.7	67.9	67.9	67.9
90°	53.0	56.6	59.8	61.4	62.7	63.5	63.5	63.9	63.5	63.1	63.1
92.5°	48.1	52.2	55.4	57.0	58.2	59.4	59.4	59.8	59.0	59.0	59.0
95°	44.1	48.1	50.9	53.0	54.2	55.0	55.4	55.4	55.0	55.0	55.0
97.5°	40.4	44.1	46.9	48.9	50.1	50.5	50.9	51.3	50.9	50.9	50.9
100°	36.8	40.4	43.3	44.9	46.5	46.9	47.3	47.7	47.7	47.3	47.3
102.5°	33.6	37.2	39.6	41.6	42.9	43.7	44.1	44.1	44.1	44.1	44.1
105°	30.3	34.0	36.4	38.4	39.6	40.4	40.8	41.2	41.2	40.8	40.8
107.5°	27.5	30.7	33.6	35.2	36.8	37.6	38.0	38.0	38.4	38.0	38.0
110°	24.7	28.3	30.7	32.3	34.0	34.8	35.2	35.6	35.6	35.6	35.6

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CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	22.6	25.5	27.9	29.5	31.1	31.9	32.3	32.7	33.2	32.7	32.7
115°	20.2	23.0	25.5	27.1	28.3	29.1	29.9	30.3	30.3	30.7	30.3
117.5°	18.2	20.6	23.0	24.7	25.9	27.1	27.5	27.9	28.3	27.9	27.9
120°	16.2	18.6	20.6	22.2	23.4	24.7	25.1	25.5	25.9	25.5	25.5
122.5°	14.6	16.6	18.6	20.2	21.4	22.2	23.0	23.0	23.4	23.4	23.4
125°	12.9	15.0	16.6	18.2	19.4	20.2	20.6	21.0	21.0	21.4	21.4
127.5°	11.3	12.9	15.0	16.2	17.4	18.2	18.6	19.0	19.0	19.4	19.4
130°	9.7	11.3	12.9	14.1	15.4	16.2	16.6	17.0	17.4	17.4	17.4
132.5°	8.5	10.1	11.3	12.5	13.3	14.1	15.0	15.4	15.4	15.4	15.4
135°	6.9	8.5	9.7	10.9	11.7	12.5	12.9	13.7	13.7	13.7	13.7
137.5°	5.7	7.3	8.5	9.3	10.1	10.9	11.3	11.7	12.1	12.1	12.1
140°	4.4	5.7	6.9	8.1	8.9	9.3	10.1	10.1	10.5	10.5	10.5
142.5°	3.2	4.4	5.3	6.5	7.3	8.1	8.5	8.9	8.9	8.9	8.9
145°	2.4	3.2	4.0	4.9	6.1	6.5	6.9	7.3	7.7	7.7	7.7
147.5°	1.6	2.4	2.8	3.6	4.4	5.3	5.7	6.1	6.5	6.5	6.5
150°	1.2	1.6	2.4	2.8	3.2	4.0	4.9	4.9	5.3	5.3	4.9
152.5°	0.8	1.2	1.6	2.0	2.4	2.8	3.6	3.6	4.0	4.0	4.0
155°	0.8	0.8	0.8	1.2	1.6	2.0	2.4	2.8	2.8	2.8	2.8
157.5°	0.8	0.8	0.8	0.8	0.8	1.2	1.6	2.0	2.0	2.0	2.0
160°	0.8	0.8	0.4	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2
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: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	734.2	735.0	735.0	734.2	733.8	735.4	733.3	725.7	728.1	728.9	731.3
5°	730.5	731.3	731.3	731.3	730.5	732.1	730.1	722.4	725.3	726.5	728.1
7.5°	725.3	725.7	726.5	726.1	725.3	727.7	725.7	718.0	720.0	722.0	724.0
10°	718.4	718.4	718.8	719.6	718.8	720.8	718.8	711.9	713.9	715.2	717.6
12.5°	709.1	709.9	710.3	709.9	709.5	711.1	710.3	703.8	704.6	707.1	709.5
15°	696.6	696.6	698.6	697.8	697.8	699.4	700.2	692.9	694.1	697.8	700.2
17.5°	681.2	681.6	683.2	684.0	683.6	686.5	686.9	681.2	680.8	685.2	687.7
20°	661.4	662.2	664.2	665.8	665.8	669.1	670.3	666.6	667.0	671.9	672.7
22.5°	637.1	637.1	640.8	643.2	645.2	647.2	650.9	647.6	647.6	654.1	657.7
25°	607.2	610.0	611.3	616.1	618.9	624.6	627.8	628.2	628.6	634.7	637.1
27.5°	574.1	574.9	578.5	584.2	587.4	592.7	598.7	599.9	602.0	610.0	613.7
30°	536.5	538.9	540.5	548.6	553.0	559.9	567.6	570.4	572.0	583.0	587.4
32.5°	498.1	498.9	505.7	510.2	515.4	522.7	531.6	536.9	540.1	551.4	557.9
35°	459.7	461.3	466.9	472.6	477.8	485.1	494.4	501.7	507.4	517.5	526.0
37.5°	424.5	428.5	429.7	435.4	439.4	446.7	453.2	463.7	469.4	479.9	490.8
40°	393.0	394.2	395.0	400.6	403.5	410.3	419.6	426.5	434.2	441.9	454.8
42.5°	361.8	362.6	363.8	367.1	370.3	375.2	382.0	388.9	397.0	408.3	416.8
45°	333.1	333.9	334.7	336.8	339.6	344.0	348.5	353.3	361.4	371.1	380.0
47.5°	306.4	308.1	308.1	308.5	310.5	314.1	317.4	323.4	327.9	333.1	343.2
50°	281.0	282.2	282.6	282.6	283.8	286.2	287.0	291.1	295.1	300.0	307.2
52.5°	257.1	257.1	256.7	258.3	258.3	259.9	260.4	262.8	265.6	270.9	274.1
55°	234.5	234.5	235.7	234.9	234.9	235.7	235.3	235.7	238.1	241.3	244.2
57.5°	212.6	212.2	213.5	212.6	212.2	213.1	213.9	212.2	212.6	215.9	215.9
60°	190.8	191.2	192.4	191.6	191.6	191.6	190.8	190.0	189.2	191.2	192.0
62.5°	173.4	172.2	173.4	172.2	173.0	172.6	171.8	170.2	170.6	169.8	169.0
65°	155.2	155.2	155.6	154.4	155.2	155.2	154.0	153.6	151.2	150.4	148.4
67.5°	139.5	139.5	139.9	139.1	139.1	139.5	138.3	137.0	134.6	133.4	130.6
70°	125.7	125.7	125.7	125.3	125.3	125.3	124.5	122.9	120.5	118.5	114.8
72.5°	113.2	113.6	113.2	113.2	114.4	113.2	112.0	110.4	108.3	104.3	101.1
75°	103.1	103.5	103.1	103.1	103.1	102.7	102.3	99.9	97.4	94.2	89.3
77.5°	94.2	94.2	94.6	94.2	94.2	93.8	92.6	90.6	87.7	84.9	79.2
80°	85.7	86.1	86.5	86.9	86.1	85.7	84.5	82.9	79.2	76.0	70.3
82.5°	79.6	79.2	79.6	80.0	79.2	78.8	77.6	75.6	72.8	68.3	62.7
85°	73.6	73.2	73.2	73.6	73.2	72.4	71.2	69.1	66.3	61.9	56.2
87.5°	67.5	67.9	68.3	67.9	67.5	66.7	65.5	63.5	60.2	56.6	50.5
90°	63.1	63.1	63.1	63.1	62.7	61.9	60.6	58.2	55.4	50.9	45.7
92.5°	59.0	59.0	59.0	59.0	58.6	57.4	56.2	54.2	50.9	46.5	41.6
95°	55.0	55.4	55.0	55.0	54.2	53.8	51.7	49.7	46.9	42.4	37.2
97.5°	50.5	50.9	50.5	50.5	50.1	49.3	48.1	45.7	42.9	38.8	34.0
100°	47.3	47.3	46.9	46.9	46.5	45.7	44.1	42.0	39.2	35.2	30.3
102.5°	43.7	44.1	43.7	43.7	42.9	42.0	40.8	38.8	36.0	31.9	27.5
105°	40.8	40.8	40.4	40.4	39.6	38.8	37.6	35.2	32.7	29.1	24.7
107.5°	38.0	38.0	37.6	37.6	36.8	36.0	34.4	32.3	29.9	26.3	22.2
110°	35.2	35.2	35.2	34.8	34.0	32.7	31.5	29.5	27.1	23.9	19.8

TEST NUMBER: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	33.2	32.7	32.3	31.9	31.1	30.3	28.7	26.7	24.3	21.4	17.8
115°	30.3	30.3	29.9	29.5	28.7	27.5	26.3	24.7	22.2	19.0	15.8
117.5°	27.9	27.9	27.5	27.1	26.3	25.1	23.9	22.2	19.8	17.0	14.1
120°	25.5	25.5	25.1	24.7	23.9	22.6	21.8	19.8	17.8	15.0	12.5
122.5°	23.4	23.0	23.0	22.2	21.8	20.6	19.4	17.8	15.8	13.3	10.9
125°	21.0	21.0	20.6	20.2	19.8	18.6	17.4	15.8	13.7	11.7	9.7
127.5°	19.0	19.0	18.6	18.2	17.8	16.6	15.4	14.1	12.1	10.1	8.1
130°	17.0	17.0	16.6	16.2	15.8	14.6	13.7	12.1	10.5	8.9	6.9
132.5°	15.4	15.4	15.0	14.6	13.7	12.9	12.1	10.5	9.3	7.7	6.1
135°	13.7	13.3	13.3	12.9	12.1	11.3	10.5	9.3	7.7	6.5	4.9
137.5°	12.1	11.7	11.3	10.9	10.5	9.7	8.9	8.1	6.9	5.3	4.0
140°	10.5	10.1	10.1	9.7	8.9	8.5	7.7	6.5	5.7	4.4	3.2
142.5°	8.9	8.9	8.5	8.1	7.7	7.3	6.5	5.7	4.4	3.6	2.4
145°	7.7	7.3	7.3	6.9	6.5	5.7	5.3	4.4	3.6	2.8	2.0
147.5°	6.1	6.1	6.1	5.7	5.3	4.9	4.4	3.6	2.8	2.0	1.2
150°	4.9	4.9	4.9	4.4	4.0	3.6	3.2	2.8	2.0	1.2	0.8
152.5°	4.0	4.0	3.6	3.6	3.2	2.8	2.4	2.0	1.2	0.8	0.8
155°	2.8	2.8	2.8	2.4	2.4	2.0	1.6	1.2	0.8	0.8	0.8
157.5°	2.0	2.0	2.0	1.6	1.6	1.2	1.2	0.8	0.8	0.8	0.8
160°	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	730.1	729.7	732.9	732.9	729.3	735.0	741.0
5°	727.7	727.3	730.5	730.5	727.3	732.9	739.4
7.5°	722.8	723.2	726.5	727.3	723.2	728.5	735.4
10°	717.6	717.2	720.8	721.6	718.4	723.2	729.7
12.5°	709.1	709.1	712.7	713.9	710.7	716.4	722.4
15°	700.2	700.2	702.6	704.6	701.8	707.1	713.1
17.5°	688.9	688.5	690.9	693.3	690.5	696.2	702.6
20°	674.3	674.3	677.2	680.0	678.0	683.2	690.5
22.5°	659.0	657.3	662.2	664.2	663.0	668.3	675.5
25°	639.6	639.2	644.0	646.8	645.2	650.9	657.3
27.5°	618.5	618.1	623.0	626.6	625.8	631.1	638.3
30°	593.1	595.1	599.5	605.6	603.6	609.2	616.9
32.5°	566.4	568.4	573.7	580.1	580.5	585.0	592.7
35°	534.4	539.7	543.3	551.8	553.4	557.9	566.0
37.5°	500.9	507.0	514.6	521.1	524.3	528.0	537.3
40°	463.3	472.2	480.7	488.4	492.4	496.0	504.9
42.5°	429.3	436.2	444.3	452.0	459.3	462.5	471.8
45°	390.9	399.0	406.3	415.6	422.9	426.5	435.8
47.5°	353.3	361.4	371.1	377.6	385.3	388.9	397.8
50°	317.4	324.6	332.7	340.4	346.9	350.1	357.8
52.5°	281.8	289.5	297.1	302.0	308.9	311.3	317.8
55°	250.2	255.5	262.4	265.2	272.1	273.7	278.1
57.5°	219.9	223.6	226.0	230.8	235.7	239.3	244.6
60°	192.4	194.0	195.7	198.5	202.5	203.8	205.8
62.5°	167.8	167.4	170.6	171.4	171.8	175.9	173.8
65°	145.9	146.3	143.5	142.3	143.9	145.1	144.3
67.5°	127.7	125.3	122.9	120.1	117.6	118.9	117.6
70°	110.0	107.9	103.9	99.9	98.2	95.8	94.6
72.5°	95.8	91.0	86.9	81.7	78.8	76.0	74.0
75°	84.9	78.0	72.4	66.7	62.7	58.6	57.8
77.5°	73.6	67.1	60.6	54.6	48.5	44.1	42.4
80°	64.7	58.6	50.9	43.7	37.2	31.5	29.5
82.5°	56.6	50.1	42.4	34.8	27.5	21.4	19.0
85°	49.7	42.9	35.2	27.5	20.2	13.7	10.5
87.5°	44.5	36.8	29.1	21.8	14.1	7.7	4.0
90°	39.6	32.3	25.1	17.4	10.1	4.0	0.0
92.5°	35.2	28.3	21.0	14.1	7.7	2.4	0.4
95°	31.1	25.1	17.8	11.3	5.7	1.6	0.4
97.5°	27.9	21.8	15.4	9.3	4.4	1.2	0.4
100°	25.1	19.0	13.3	7.7	3.6	0.8	0.4
102.5°	22.2	17.0	11.3	6.5	2.8	0.4	0.4
105°	19.8	15.0	9.7	5.7	2.4	0.4	0.4
107.5°	17.8	13.3	8.5	4.9	1.6	0.4	0.4
110°	15.8	11.3	7.3	4.0	1.2	0.4	0.4



TEST NUMBER: P1212976

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	14.1	10.1	6.5	3.2	0.8	0.4	0.4
115°	12.5	8.9	5.7	2.8	0.8	0.4	0.4
117.5°	10.9	7.7	4.9	2.0	0.4	0.4	0.4
120°	9.7	6.9	4.0	1.6	0.4	0.4	0.4
122.5°	8.5	5.7	3.2	1.2	0.4	0.4	0.4
125°	7.3	4.9	2.8	0.8	0.4	0.4	0.4
127.5°	6.1	4.0	2.0	0.8	0.4	0.4	0.4
130°	5.3	3.2	1.6	0.4	0.4	0.4	0.4
132.5°	4.4	2.4	1.2	0.4	0.4	0.4	0.4
135°	3.6	2.0	0.8	0.4	0.4	0.4	0.4
137.5°	2.8	1.6	0.8	0.4	0.4	0.4	0.4
140°	2.0	1.2	0.4	0.4	0.4	0.4	0.4
142.5°	1.6	0.8	0.4	0.4	0.4	0.4	0.4
145°	1.2	0.8	0.4	0.4	0.4	0.4	0.4
147.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4
150°	0.8	0.8	0.4	0.4	0.8	0.4	0.4
152.5°	0.8	0.4	0.4	0.4	0.8	0.4	0.4
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.4
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)