

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: P1214029

Luminaire Tested: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214029
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-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

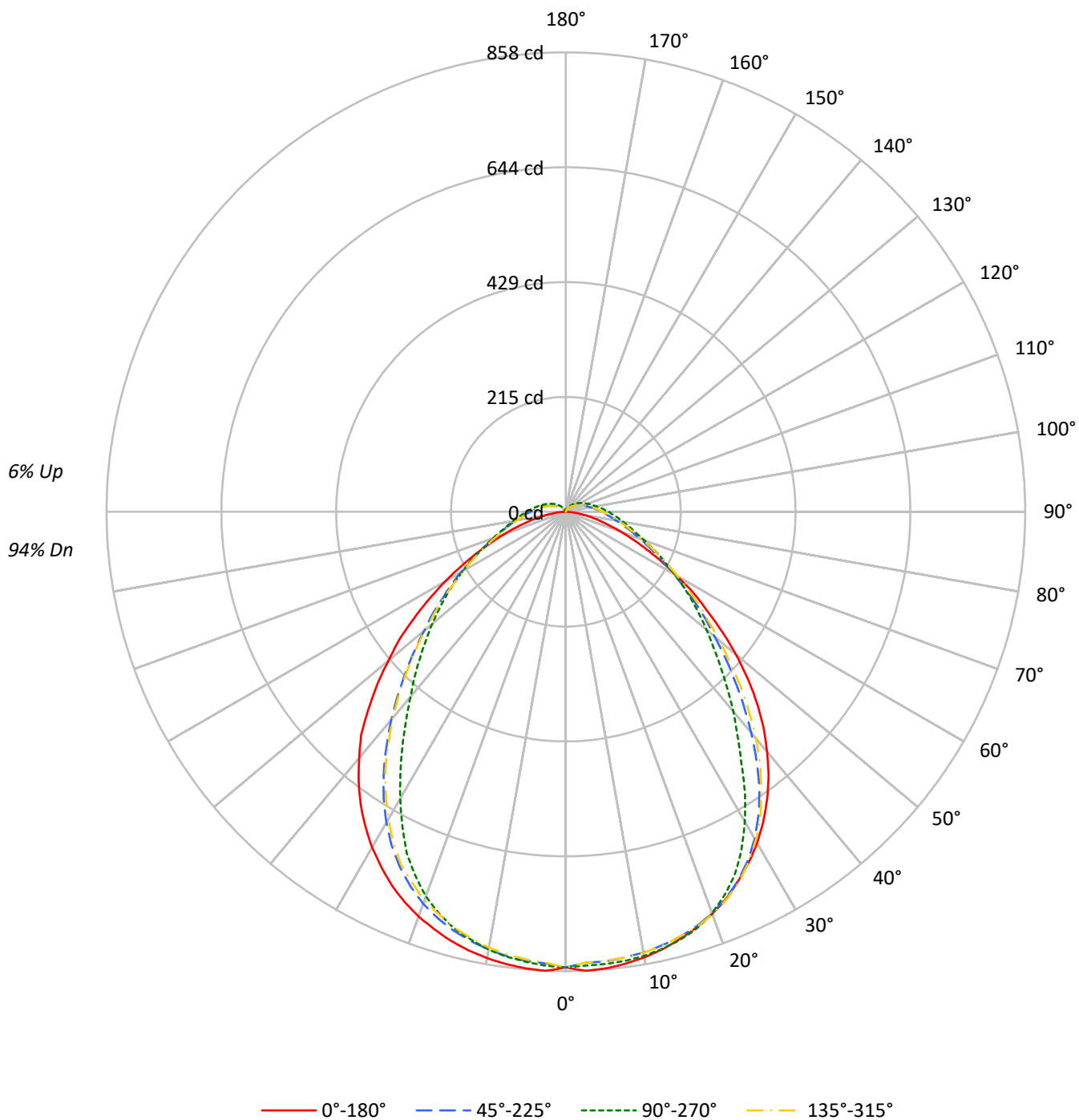
Lumens per Lamp: N/A
Luminaire Lumens: 2154.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

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°	13756	13756	13756	13756
5°	13817	13319	13817	13259
10°	13716	12964	13741	12784
15°	13591	12577	13652	12249
20°	13447	12078	13526	11568
25°	13190	11340	13337	10672
30°	12868	10254	13037	9493
35°	12389	8924	12629	8309
40°	11721	7804	12032	7241
45°	10857	6784	11210	6395
50°	9695	5962	10123	5660
55°	8332	5265	8938	4999
60°	6950	4623	7578	4356
65°	5635	4087	6205	3788
70°	4420	3627	4948	3355
75°	3387	3347	3818	3079
80°	2350	3230	2769	2954
85°	1320	3249	1774	2986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11210 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.7
10°-20°	231.4	10.7
20°-30°	342.9	15.9
30°-40°	381.0	17.7
40°-50°	345.3	16.0
50°-60°	267.6	12.4
60°-70°	181.7	8.4
70°-80°	115.6	5.4
80°-90°	73.9	3.4
90°-100°	49.8	2.3
100°-110°	34.1	1.6
110°-120°	22.8	1.1
120°-130°	14.2	0.7
130°-140°	7.8	0.4
140°-150°	3.7	0.2
150°-160°	1.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	655.0	30.4
0°-40°	1036.0	48.1
0°-60°	1648.9	76.6
0°-90°	2020.2	93.8
90°-120°	106.7	5.0
90°-150°	132.4	6.1
90°-180°	134.0	6.2
0°-180°	2154.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	851	851	851	851	851	
5°	856	848	856	844	856	81
15°	826	827	830	806	826	233
25°	761	747	770	703	761	351
35°	655	571	668	532	655	409
45°	505	408	521	385	505	388
55°	322	287	346	272	322	290
65°	167	193	184	179	167	168
75°	67	129	75	118	67	72
85°	12	93	16	85	12	15
90°	0	80	1	73	0	1
95°	0	68	0	64	0	0
105°	0	50	0	47	0	1
115°	0	38	0	35	0	0
125°	0	28	0	25	0	0
135°	0	20	0	16	0	0
145°	0	13	0	9	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

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	858.2	857.2	856.3	854.9	856.3	860.0	857.7	852.5	851.6	843.2	846.9
5°	856.3	854.9	853.9	852.5	854.4	859.1	856.8	852.1	850.7	842.7	846.9
7.5°	851.6	850.7	849.3	849.3	851.1	855.8	853.9	848.8	847.9	839.9	844.6
10°	845.0	844.6	843.6	843.6	845.5	851.1	848.8	844.1	843.2	835.7	840.8
12.5°	836.6	837.1	835.7	835.7	838.5	844.1	842.2	837.1	836.2	829.6	834.7
15°	825.9	826.3	825.4	825.9	828.7	835.2	832.9	828.2	827.3	822.1	826.3
17.5°	813.7	814.1	814.1	813.7	817.0	823.5	821.6	817.4	816.0	811.8	817.0
20°	799.6	799.6	799.6	799.6	803.4	809.9	807.6	804.3	801.5	798.2	802.4
22.5°	782.3	781.8	782.3	783.7	787.5	792.6	791.2	787.5	783.3	781.4	784.7
25°	761.2	762.7	763.1	764.5	769.2	773.4	772.0	768.3	761.7	760.3	761.2
27.5°	739.2	740.2	741.6	741.1	747.7	751.9	749.1	745.8	736.4	735.0	734.1
30°	714.4	715.8	716.8	716.3	721.5	726.1	723.3	719.1	706.5	705.5	698.0
32.5°	686.3	687.7	688.7	688.7	696.2	698.0	692.9	686.8	673.2	670.0	663.4
35°	655.4	656.8	657.3	657.3	664.8	664.3	657.8	649.4	634.4	630.2	618.9
37.5°	622.2	623.1	623.6	626.4	629.7	626.9	618.5	607.7	596.5	584.7	572.6
40°	584.7	586.2	587.1	589.0	592.2	589.0	576.8	563.7	551.5	538.4	526.2
42.5°	546.4	550.6	549.6	549.2	551.0	542.1	532.8	517.8	505.6	492.0	479.9
45°	504.7	504.2	506.6	507.5	507.0	499.5	486.4	472.9	460.7	446.6	436.3
47.5°	460.7	460.2	462.1	463.0	460.2	452.3	442.0	426.5	416.2	404.0	396.1
50°	414.3	414.3	417.1	414.3	412.9	405.0	396.5	381.1	373.1	362.4	357.7
52.5°	368.0	372.2	369.4	368.5	367.0	359.1	352.5	339.9	333.3	328.7	323.0
55°	322.1	326.8	324.9	323.5	323.0	316.5	310.4	301.0	296.8	293.5	290.3
57.5°	283.2	282.8	281.8	280.4	280.9	275.8	269.7	264.5	262.6	261.2	262.2
60°	238.3	242.0	240.6	241.1	241.6	240.6	235.5	232.2	232.7	233.1	234.6
62.5°	201.3	204.6	206.9	205.1	206.0	207.4	204.6	203.7	205.5	207.4	209.3
65°	167.1	170.4	172.8	172.3	175.1	177.9	177.4	178.4	182.6	184.9	187.3
67.5°	136.2	139.5	142.8	143.3	147.5	151.7	153.6	156.8	161.5	164.8	167.6
70°	109.6	112.4	116.1	118.4	124.1	129.7	133.0	139.5	142.3	147.0	148.9
72.5°	85.7	88.0	93.2	98.8	103.5	110.5	117.0	122.7	126.9	132.0	134.4
75°	66.9	67.9	73.5	80.1	86.6	94.6	101.6	107.7	113.3	118.4	122.2
77.5°	49.2	50.6	55.7	64.6	72.1	80.5	88.5	95.0	101.1	106.3	111.4
80°	34.2	37.0	42.6	51.5	59.9	69.3	76.8	84.3	90.8	96.0	101.1
82.5°	22.0	24.3	32.3	41.2	50.1	59.5	67.4	74.9	81.9	87.5	92.2
85°	12.2	15.4	23.4	32.8	41.7	51.0	59.5	66.9	74.0	79.1	83.8
87.5°	4.7	9.4	16.9	25.7	34.6	43.5	52.4	59.5	66.5	72.1	76.3
90°	0.0	5.6	12.6	21.5	30.4	39.3	47.8	55.2	61.8	66.9	71.6
92.5°	0.5	3.7	9.8	17.3	25.7	34.2	42.1	49.6	56.2	61.3	65.5
95°	0.5	2.8	8.0	15.0	22.5	30.4	37.9	44.9	51.0	56.2	60.4
97.5°	0.5	1.9	6.6	13.1	19.7	27.6	34.6	41.2	46.8	52.0	55.2
100°	0.5	1.9	5.6	11.2	17.8	24.8	31.4	37.9	43.1	47.3	51.0
102.5°	0.5	1.4	4.7	9.8	15.9	22.0	28.6	34.6	39.3	43.5	47.3
105°	0.5	1.4	4.2	8.4	14.0	20.1	25.7	31.4	36.5	40.3	43.5
107.5°	0.5	0.9	3.7	7.0	12.2	18.3	23.9	28.6	33.2	37.0	40.3
110°	0.5	0.9	3.3	6.6	10.8	16.4	21.5	26.2	30.4	34.2	37.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	0.9	2.8	6.1	9.8	14.5	19.7	23.9	28.1	31.4	34.2
115°	0.5	0.9	2.8	5.6	8.9	12.6	17.3	22.0	25.3	29.0	31.4
117.5°	0.5	0.9	2.3	4.7	8.4	11.7	15.9	19.7	23.4	26.7	29.0
120°	0.5	0.9	2.3	4.2	7.5	10.8	14.0	17.8	21.5	23.9	26.2
122.5°	0.5	0.9	1.9	4.2	6.6	9.8	12.6	15.9	19.2	22.0	24.3
125°	0.5	0.9	1.9	3.7	6.1	8.9	11.7	14.0	17.3	19.7	22.0
127.5°	0.5	0.9	1.9	3.3	5.6	8.0	10.8	13.1	15.4	17.8	19.7
130°	0.5	0.9	1.4	2.8	5.1	7.0	9.4	12.2	14.0	15.9	17.8
132.5°	0.5	0.9	1.4	2.8	4.2	6.1	8.4	10.8	12.6	14.5	15.9
135°	0.5	0.9	1.4	2.3	3.7	5.6	7.0	9.4	11.2	13.1	14.5
137.5°	0.5	0.9	1.4	2.3	3.3	4.7	6.1	8.0	9.8	11.2	13.1
140°	0.5	0.9	1.4	1.9	2.8	4.2	5.6	6.6	8.4	9.8	11.2
142.5°	0.5	0.9	1.4	1.9	2.8	3.7	4.7	5.6	7.0	8.4	9.8
145°	0.5	0.9	1.4	1.9	2.3	3.3	4.2	5.1	5.6	7.0	8.0
147.5°	0.5	0.9	1.4	1.9	1.9	2.8	3.7	4.2	5.1	5.6	6.6
150°	0.5	0.9	1.4	1.4	1.9	2.3	3.3	3.7	4.2	5.1	5.6
152.5°	0.5	0.9	1.4	1.4	1.9	2.3	2.8	3.3	3.7	4.2	4.7
155°	0.5	0.9	1.4	1.4	1.4	1.9	2.3	2.8	3.3	3.7	4.2
157.5°	0.9	0.9	0.9	1.4	1.4	1.9	1.9	2.3	2.8	2.8	3.3
160°	0.9	0.9	0.9	1.4	1.4	1.4	1.9	1.9	2.3	2.3	2.8
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	846.0	847.4	851.6	851.6	850.7	849.7	849.7	848.3	849.3	851.1	850.2
5°	846.0	847.4	851.6	851.6	850.7	849.7	849.3	847.9	849.3	851.1	850.2
7.5°	843.2	845.0	849.3	849.3	848.3	847.9	846.9	846.0	847.4	849.3	848.3
10°	839.4	841.3	845.5	845.5	844.6	844.6	843.2	842.2	844.1	845.5	845.0
12.5°	833.8	836.2	839.9	839.4	838.5	839.0	837.6	835.7	837.6	839.0	839.4
15°	825.9	828.7	832.4	831.5	830.1	831.0	828.7	827.3	828.7	831.5	831.0
17.5°	815.6	817.4	820.2	820.2	818.8	817.9	817.0	815.6	816.5	818.4	818.8
20°	801.0	803.4	804.8	803.4	802.9	801.5	799.6	798.2	800.1	802.9	803.4
22.5°	781.8	782.3	785.6	782.3	780.0	779.5	777.6	774.8	777.6	780.0	780.4
25°	758.0	760.3	758.9	753.3	753.3	749.5	748.6	747.2	747.7	751.9	753.8
27.5°	727.5	728.5	724.7	720.0	715.8	713.5	710.2	710.7	710.7	716.3	718.2
30°	694.3	689.1	685.9	678.4	675.1	669.5	668.5	668.5	667.6	670.4	678.8
32.5°	654.5	647.5	642.3	635.3	629.7	624.1	621.3	622.7	622.2	629.2	632.0
35°	611.0	606.8	596.0	587.1	583.8	575.4	575.4	571.2	574.0	581.9	585.2
37.5°	565.1	558.5	549.6	539.8	537.5	530.9	528.6	526.2	532.3	533.7	537.0
40°	518.3	512.2	503.8	494.4	494.4	486.4	486.4	486.4	486.9	489.7	495.8
42.5°	473.8	467.2	459.7	453.2	452.3	446.2	446.2	445.7	446.6	449.0	454.6
45°	430.7	425.6	417.6	414.3	414.8	408.2	409.6	408.2	410.1	412.5	414.3
47.5°	390.9	387.6	384.4	379.7	378.3	377.8	375.5	373.6	376.9	376.9	379.7
50°	353.9	352.1	350.2	347.4	347.9	346.0	343.2	343.2	345.5	346.0	347.9
52.5°	321.6	319.3	317.0	317.4	317.9	317.0	315.5	314.1	315.5	316.5	318.8
55°	289.3	287.5	289.8	288.9	289.8	288.9	287.9	287.0	289.3	287.9	290.3
57.5°	260.3	262.2	263.1	261.2	262.6	261.7	262.2	260.8	262.6	263.6	263.1
60°	233.6	236.4	235.0	235.5	237.4	236.4	234.6	236.0	237.8	238.3	237.8
62.5°	209.3	212.5	214.0	213.0	213.5	212.5	214.0	212.1	214.4	215.4	214.0
65°	187.3	191.0	192.0	192.0	192.0	191.0	192.4	192.9	193.8	193.8	192.9
67.5°	168.5	171.8	172.8	173.7	172.8	171.8	171.8	172.3	174.2	175.1	174.2
70°	151.7	155.0	155.4	155.4	155.9	156.8	155.0	155.9	157.3	157.8	157.3
72.5°	137.2	140.5	141.4	140.9	141.4	141.9	141.9	140.9	142.3	143.3	143.3
75°	125.5	127.3	128.3	128.3	128.7	129.2	129.2	128.7	129.7	130.2	130.6
77.5°	114.7	116.1	117.5	117.5	118.0	117.5	118.4	118.4	118.9	119.4	119.9
80°	103.9	105.8	106.7	107.2	108.1	108.6	108.6	108.6	109.1	109.6	109.6
82.5°	95.5	96.9	98.3	99.7	99.7	100.2	100.2	100.2	100.7	100.7	101.1
85°	87.1	89.0	90.4	91.3	91.8	92.2	92.2	92.7	92.7	92.7	93.2
87.5°	79.6	81.9	82.9	83.8	84.3	85.2	85.2	85.2	85.7	85.7	85.7
90°	74.4	76.8	77.7	78.7	79.1	79.6	79.6	80.1	80.1	80.5	80.5
92.5°	68.4	70.7	72.6	72.6	73.0	74.0	73.5	73.5	74.0	74.4	74.4
95°	63.7	65.5	66.9	67.4	67.9	67.9	67.9	68.4	67.9	68.4	68.4
97.5°	58.1	59.9	61.3	62.3	62.7	62.7	62.7	63.2	62.7	63.2	63.2
100°	53.4	55.2	56.6	57.1	58.1	58.1	58.1	58.1	58.1	58.1	58.5
102.5°	49.6	51.5	52.4	52.9	53.4	53.8	53.8	53.8	53.8	54.3	54.3
105°	45.9	47.8	48.7	49.2	49.6	50.1	50.1	50.1	50.6	50.6	50.1
107.5°	42.6	44.0	44.9	45.9	46.3	46.3	46.8	46.8	46.8	46.8	46.8
110°	39.3	40.7	42.1	43.1	43.1	43.5	43.5	44.0	44.0	43.5	44.0

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	36.0	37.9	38.9	39.8	40.3	40.7	40.7	40.7	40.7	40.7	40.7
115°	33.2	35.1	36.0	37.0	37.5	37.9	37.9	37.9	37.9	37.9	37.9
117.5°	30.9	32.8	33.7	34.2	34.6	35.1	35.6	35.6	35.6	35.6	35.1
120°	28.6	30.0	30.9	31.8	32.3	32.8	32.8	32.8	32.8	32.8	32.8
122.5°	26.2	27.6	28.6	29.5	30.0	30.4	30.4	30.4	30.4	30.4	30.4
125°	23.9	25.3	26.2	27.2	27.6	28.1	28.1	28.1	28.1	28.1	28.1
127.5°	21.5	22.9	24.3	24.8	25.3	25.7	25.7	25.7	26.2	25.7	25.7
130°	19.2	20.6	22.0	22.5	22.9	23.4	23.9	23.9	23.9	23.9	23.4
132.5°	17.3	18.7	19.7	20.1	21.1	21.1	21.5	21.5	21.5	21.5	21.1
135°	15.9	16.9	17.8	18.3	19.2	19.2	19.2	19.7	19.7	19.2	18.7
137.5°	14.0	15.0	15.9	16.4	16.9	17.3	17.3	17.8	17.3	17.3	17.3
140°	13.1	13.6	14.5	15.0	15.4	15.4	15.4	15.9	15.9	15.4	15.4
142.5°	11.2	12.2	13.1	13.6	14.0	14.0	14.0	14.0	14.0	14.0	14.0
145°	9.4	10.8	11.2	12.2	12.2	12.6	12.6	12.6	12.6	12.6	12.2
147.5°	8.0	8.9	10.3	10.8	10.8	11.2	11.2	11.2	11.2	11.2	10.8
150°	6.1	7.0	8.4	9.4	9.4	9.8	9.8	9.8	9.8	9.4	9.4
152.5°	5.1	6.1	6.6	7.5	8.0	8.0	8.0	8.4	8.0	8.0	8.0
155°	4.7	5.1	5.6	6.1	6.6	7.0	7.0	7.0	7.0	6.6	6.6
157.5°	3.7	4.2	4.7	5.1	5.6	6.1	6.1	6.1	6.1	6.1	5.6
160°	2.8	3.3	3.7	3.7	4.2	4.7	5.1	4.7	4.7	4.7	4.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	849.3	848.8	850.2	847.9	840.8	842.7	841.8	846.0	846.9	847.9	852.1
5°	849.3	848.8	849.7	847.9	840.4	841.8	840.8	845.0	846.0	846.5	850.7
7.5°	847.4	846.9	848.3	846.0	838.0	839.9	838.5	842.7	843.2	843.6	847.4
10°	843.6	843.2	844.1	842.2	834.3	836.2	834.3	838.5	838.5	839.4	842.2
12.5°	838.0	837.1	839.0	836.6	827.7	830.1	829.1	831.9	832.4	832.9	835.7
15°	830.1	829.1	830.5	829.1	821.2	821.6	820.2	824.4	824.9	824.0	826.8
17.5°	818.4	817.4	820.2	819.3	811.3	813.2	812.7	813.7	815.1	812.7	816.5
20°	803.9	804.8	805.7	806.2	800.1	800.1	799.6	801.5	802.9	801.0	803.9
22.5°	782.3	784.7	787.5	788.4	784.2	783.7	786.5	785.6	787.0	786.1	787.9
25°	755.2	759.8	762.7	765.5	763.1	764.1	768.3	769.2	769.2	768.7	770.6
27.5°	721.5	727.5	732.7	738.8	736.4	738.3	745.3	746.3	748.1	746.3	750.0
30°	681.2	686.8	696.6	705.5	706.5	709.3	719.1	720.0	725.2	723.3	724.7
32.5°	640.9	643.7	655.0	663.9	669.5	676.5	687.3	689.1	696.2	697.6	697.6
35°	590.4	598.3	608.6	621.3	628.3	635.8	650.3	653.1	663.4	666.7	670.4
37.5°	547.8	555.3	561.8	574.9	587.6	596.0	607.7	614.7	625.5	631.6	636.2
40°	502.3	508.4	515.5	528.6	539.3	552.0	563.7	572.1	585.7	592.7	598.8
42.5°	459.3	464.0	471.4	480.8	492.0	506.1	517.3	527.2	541.7	551.5	558.5
45°	420.9	423.7	430.2	437.3	447.1	461.6	472.4	485.0	496.7	507.0	515.5
47.5°	384.8	388.6	391.9	396.5	405.4	414.3	427.0	439.1	450.8	462.1	470.5
50°	351.6	351.6	356.7	360.0	366.1	374.1	383.9	392.3	406.8	414.8	425.6
52.5°	319.3	321.2	324.0	325.8	330.5	335.7	343.6	350.7	362.8	370.3	380.6
55°	290.7	292.6	294.0	294.9	297.8	303.8	306.7	312.3	320.7	326.8	335.7
57.5°	263.6	264.5	265.9	266.4	266.9	270.6	272.9	274.3	282.8	288.9	296.4
60°	238.8	238.8	240.2	239.7	239.2	241.1	240.6	242.0	247.2	250.9	254.2
62.5°	215.4	215.4	215.8	214.9	214.4	214.4	212.5	214.0	215.4	215.8	218.2
65°	193.8	196.2	194.3	194.8	192.0	191.0	190.1	187.3	186.8	184.9	185.9
67.5°	174.6	176.5	174.6	174.6	172.3	170.4	168.1	163.4	162.0	158.2	157.3
70°	159.2	157.8	158.7	157.3	154.5	152.2	148.9	145.1	140.5	135.8	132.5
72.5°	144.2	144.2	143.3	141.9	140.5	135.8	132.0	127.8	122.2	116.1	111.4
75°	129.7	130.2	130.2	128.7	126.4	122.2	118.0	111.9	105.8	98.8	92.7
77.5°	119.4	119.4	119.4	117.0	114.7	111.0	105.8	99.3	92.7	84.3	77.2
80°	109.6	109.1	109.1	106.3	103.9	99.7	94.6	88.0	81.0	72.1	64.1
82.5°	101.6	101.1	100.2	97.8	94.6	90.4	85.2	78.2	70.7	62.7	52.9
85°	93.2	92.7	91.8	89.4	86.1	82.4	76.8	69.8	62.3	53.4	44.0
87.5°	85.7	85.2	83.8	82.4	78.7	74.4	68.8	62.3	54.3	45.9	36.5
90°	80.5	79.6	78.7	76.8	73.5	68.8	63.2	56.2	48.2	39.8	30.4
92.5°	74.4	74.0	72.6	70.7	67.9	63.2	57.6	51.0	43.1	35.1	26.2
95°	68.4	67.9	66.9	65.1	62.3	58.1	52.9	46.3	38.9	30.9	22.9
97.5°	62.7	62.7	61.3	59.9	56.6	53.4	48.2	42.1	35.1	28.1	20.6
100°	58.1	58.1	56.6	54.8	52.4	49.2	44.0	38.4	31.8	25.3	17.8
102.5°	53.8	53.4	52.4	50.6	48.2	44.9	40.3	35.1	29.0	22.5	15.9
105°	50.1	49.6	48.7	46.8	44.9	41.2	37.5	32.3	26.2	20.1	14.0
107.5°	46.3	45.9	45.4	43.5	41.2	37.9	34.2	29.0	23.9	18.3	12.6
110°	43.1	42.6	41.7	39.8	37.5	34.6	30.9	26.7	21.5	16.4	11.2

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	40.3	39.8	38.9	37.0	35.1	31.8	28.6	23.9	19.7	15.0	9.8
115°	37.5	37.0	36.0	34.2	31.8	29.0	25.7	22.0	17.3	13.1	8.9
117.5°	34.6	34.2	33.2	31.8	29.5	26.7	23.4	19.7	15.4	12.2	8.0
120°	32.3	31.4	30.4	29.0	26.7	24.3	21.1	17.8	14.0	10.8	7.0
122.5°	30.0	29.0	28.1	26.7	24.3	22.0	18.7	15.9	13.1	9.8	6.6
125°	27.2	26.7	25.7	24.3	22.0	19.7	17.3	14.5	11.7	8.9	5.6
127.5°	24.8	24.3	23.4	21.5	19.7	17.8	15.4	13.1	10.3	7.5	5.1
130°	22.9	22.0	21.1	19.7	18.3	16.4	14.0	11.7	9.4	6.6	4.7
132.5°	20.6	19.7	18.7	17.8	16.4	14.5	12.6	10.3	8.4	6.1	4.2
135°	18.7	17.8	16.9	15.9	14.5	13.1	11.2	9.4	7.5	5.6	3.7
137.5°	16.4	15.9	15.4	14.5	13.1	11.7	10.3	8.0	6.6	5.1	3.3
140°	15.0	14.5	14.0	12.6	11.7	10.3	8.9	7.0	5.6	4.2	2.8
142.5°	13.6	13.1	12.2	11.2	10.3	9.4	7.5	6.6	5.1	3.7	2.8
145°	11.7	11.2	10.8	9.8	8.9	7.5	6.6	5.6	4.7	3.3	2.3
147.5°	10.8	10.3	9.4	8.4	7.5	6.6	6.1	5.1	3.7	2.8	1.9
150°	8.9	8.4	8.0	7.0	6.6	6.1	5.1	4.2	3.3	2.3	1.9
152.5°	7.5	7.0	6.6	6.6	5.6	5.1	4.2	3.7	2.8	2.3	1.4
155°	6.6	6.6	6.1	5.6	4.7	4.2	3.7	2.8	2.3	1.9	1.4
157.5°	5.6	5.1	4.7	4.7	4.2	3.7	2.8	2.3	1.9	1.9	1.4
160°	4.7	4.2	4.2	3.7	3.3	2.8	2.3	2.3	1.9	1.4	1.4
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: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	852.5	847.4	852.1	858.2	858.2	857.2	856.3	858.2	862.8	861.0	855.3
5°	851.1	846.0	850.2	856.3	856.3	854.9	853.9	855.3	860.5	858.2	853.0
7.5°	848.3	843.6	846.5	852.1	852.1	850.7	849.7	851.6	855.8	853.5	847.9
10°	843.2	838.0	841.3	846.5	846.0	845.0	843.6	846.0	849.7	846.5	839.9
12.5°	836.6	831.5	834.3	839.0	838.5	836.6	835.7	837.1	840.4	838.5	831.5
15°	827.7	822.6	824.9	829.6	828.2	826.8	824.9	825.4	829.6	826.3	818.8
17.5°	817.0	811.3	813.2	817.4	816.0	814.6	812.3	812.7	817.4	812.7	804.8
20°	803.9	797.8	799.2	804.3	802.0	799.6	797.3	797.3	802.0	796.8	787.9
22.5°	789.8	783.7	784.7	788.4	786.5	782.3	780.0	781.4	783.7	777.2	767.8
25°	772.5	764.5	765.9	769.7	768.3	762.7	760.3	761.2	760.3	755.2	745.3
27.5°	752.4	743.9	744.9	747.2	745.3	740.2	737.4	737.8	736.0	729.4	718.2
30°	727.1	722.9	722.4	723.8	721.0	715.8	712.6	711.6	711.2	701.8	688.2
32.5°	701.3	697.6	695.2	697.1	693.8	688.7	683.1	683.1	678.4	669.5	657.8
35°	675.1	669.0	666.7	668.1	664.3	657.8	653.1	650.8	643.7	632.5	619.9
37.5°	641.4	637.2	634.4	635.8	631.6	626.9	618.0	615.6	608.2	592.7	576.8
40°	604.9	601.6	598.8	600.2	595.5	588.5	580.5	576.8	568.4	551.0	538.4
42.5°	565.6	564.1	560.9	566.0	556.7	549.6	541.7	535.6	527.2	508.4	493.9
45°	523.9	527.2	519.7	521.1	515.0	508.9	500.5	491.6	483.2	465.4	449.0
47.5°	479.9	482.2	477.1	478.0	471.4	465.8	458.3	447.1	437.7	422.3	407.8
50°	434.5	433.5	433.5	432.6	427.4	420.4	412.9	402.6	393.3	379.2	367.0
52.5°	386.2	388.1	389.1	391.4	384.8	380.6	368.9	360.0	353.0	338.5	328.2
55°	339.9	346.4	344.6	345.5	338.0	334.7	325.4	318.4	308.1	299.6	293.1
57.5°	297.8	299.2	300.1	301.5	298.2	291.7	284.2	278.6	270.6	263.6	258.9
60°	257.0	257.0	257.5	259.8	256.6	250.9	245.3	241.1	235.5	231.3	228.5
62.5°	218.6	221.9	222.4	220.5	216.3	213.5	209.7	207.4	203.7	202.3	201.3
65°	183.1	183.1	183.1	184.0	181.7	179.8	177.4	177.0	178.4	176.5	177.4
67.5°	153.1	151.7	150.8	151.2	150.3	149.3	148.9	150.3	153.1	153.1	155.4
70°	127.3	124.5	122.7	122.7	122.7	123.1	124.5	127.3	132.0	133.9	137.2
72.5°	106.3	100.2	97.4	97.4	97.8	99.7	103.9	109.1	113.3	117.0	121.3
75°	86.1	80.1	75.8	75.4	76.3	79.1	85.2	89.9	96.9	102.1	107.2
77.5°	69.8	62.3	57.1	56.6	58.1	62.3	69.8	75.8	83.8	89.4	95.0
80°	55.7	47.3	43.1	40.3	42.6	47.8	56.2	63.7	71.2	78.7	85.7
82.5°	44.5	36.5	30.0	27.2	30.0	37.0	44.9	53.8	61.3	69.3	76.3
85°	35.1	26.7	19.2	16.4	19.7	27.2	36.0	44.9	53.4	61.3	68.4
87.5°	27.6	19.2	11.7	8.0	12.2	20.1	28.6	37.5	46.3	54.3	61.3
90°	21.5	13.6	6.6	0.9	7.0	14.5	22.9	31.4	40.3	48.2	55.2
92.5°	18.3	10.3	3.7	0.0	4.2	10.8	18.7	27.2	35.1	43.1	50.1
95°	15.4	8.4	2.8	0.0	2.8	8.4	15.4	22.9	30.9	38.9	45.9
97.5°	13.1	6.6	1.9	0.0	1.9	6.6	12.6	20.1	27.2	34.6	41.2
100°	11.2	5.6	1.4	0.0	1.4	5.1	10.8	17.3	24.3	31.4	37.5
102.5°	9.8	4.7	0.9	0.0	0.9	4.2	8.9	15.0	21.1	27.6	33.7
105°	8.4	3.7	0.9	0.0	0.5	3.3	7.5	13.1	18.7	24.8	30.4
107.5°	7.5	3.3	0.9	0.0	0.5	2.8	6.6	11.2	16.9	22.0	27.2
110°	6.6	2.8	0.9	0.0	0.5	1.9	5.6	9.8	14.5	19.7	24.8

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.6	2.3	0.5	0.0	0.0	1.4	4.7	8.4	12.6	17.8	22.0
115°	5.1	2.3	0.5	0.0	0.0	0.9	3.7	7.5	11.2	15.9	19.7
117.5°	4.7	1.9	0.5	0.0	0.5	0.9	3.3	6.6	9.8	13.6	17.8
120°	4.2	1.9	0.5	0.0	0.5	0.5	2.3	5.6	8.4	12.2	15.4
122.5°	3.7	1.9	0.5	0.0	0.5	0.5	1.9	4.7	7.5	10.8	13.6
125°	3.3	1.4	0.9	0.5	0.5	0.5	1.4	3.7	6.6	8.9	12.2
127.5°	3.3	1.4	0.9	0.5	0.5	0.5	0.9	3.3	5.1	8.0	10.8
130°	2.8	1.4	0.9	0.5	0.5	0.5	0.5	2.3	4.7	6.6	8.9
132.5°	2.3	1.4	0.9	0.5	0.5	0.5	0.5	1.4	3.3	5.6	7.5
135°	2.3	1.4	0.9	0.5	0.5	0.5	0.5	0.9	2.3	4.2	6.1
137.5°	1.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	1.9	3.3	4.7
140°	1.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	1.4	2.3	3.7
142.5°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.9	2.8
145°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.9
147.5°	1.4	1.4	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4
150°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
152.5°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
155°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
157.5°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
160°	1.4	0.9	0.9	0.5	0.9	0.5	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: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	853.5	844.6	849.3	847.9	849.7	853.5	853.0	852.1	852.1	850.7	848.8
5°	850.7	842.2	846.5	844.1	846.5	849.7	849.3	847.9	848.8	846.5	844.1
7.5°	845.0	837.6	841.3	839.4	841.3	844.6	843.2	842.7	843.6	839.9	838.5
10°	838.5	830.1	834.3	831.9	834.3	836.6	835.7	833.8	835.7	831.9	830.5
12.5°	828.2	821.2	824.0	823.0	824.4	826.8	824.9	823.5	824.4	821.2	818.4
15°	817.0	809.9	812.3	810.9	811.8	814.6	811.3	810.9	809.9	806.7	805.7
17.5°	802.4	795.9	798.2	795.9	797.3	796.4	795.9	793.6	793.6	789.8	787.0
20°	784.7	779.0	777.6	775.8	777.6	775.8	773.0	771.1	770.6	766.9	764.5
22.5°	764.1	757.5	758.4	753.3	753.8	750.9	746.3	744.4	742.5	738.3	735.0
25°	739.2	732.7	728.0	724.7	720.5	720.0	714.0	709.3	708.8	703.7	703.2
27.5°	711.2	703.7	699.9	692.0	686.8	682.6	677.4	672.8	670.4	664.8	661.1
30°	678.8	670.4	661.1	655.4	647.5	644.2	635.3	629.7	627.8	621.7	618.9
32.5°	642.3	633.4	625.9	615.2	606.3	601.6	592.7	587.1	584.7	578.2	574.4
35°	602.5	592.7	583.8	573.5	566.5	558.5	547.8	542.1	537.0	534.7	531.8
37.5°	560.9	550.1	539.8	529.5	523.4	514.1	504.7	500.9	494.9	492.5	489.7
40°	517.8	507.0	497.2	487.4	480.3	471.9	463.5	462.1	455.5	453.2	451.3
42.5°	475.2	464.0	452.7	445.7	440.5	432.1	426.5	425.1	419.5	418.1	418.1
45°	436.8	422.8	413.4	407.3	403.1	396.1	391.4	390.5	385.8	384.8	384.8
47.5°	395.6	382.5	375.5	371.7	368.0	362.8	360.0	360.0	355.3	354.4	353.9
50°	357.2	345.0	339.9	336.1	335.7	331.9	329.6	328.7	328.7	325.4	325.8
52.5°	320.7	314.6	310.4	308.1	305.2	302.9	301.0	301.0	299.6	297.3	298.2
55°	287.0	280.0	280.4	278.6	277.2	275.8	276.2	273.4	272.9	271.1	272.5
57.5°	253.3	253.3	252.3	250.9	248.6	249.5	249.5	249.5	247.2	245.8	247.2
60°	224.7	226.1	223.8	225.2	224.3	224.7	223.8	223.8	222.4	221.9	222.4
62.5°	199.4	201.8	200.8	202.7	201.8	202.3	203.2	201.3	200.4	199.4	200.4
65°	177.0	179.8	179.3	180.7	181.2	181.7	182.1	181.2	180.2	179.3	178.8
67.5°	157.3	160.1	162.0	162.5	162.9	164.3	163.9	162.9	162.0	160.6	160.1
70°	139.5	143.3	145.6	146.5	148.4	147.5	147.5	147.0	146.1	144.7	144.2
72.5°	124.5	128.7	131.1	132.0	133.9	133.9	133.4	133.0	132.0	130.6	130.2
75°	111.4	115.2	118.4	120.3	121.7	121.7	121.3	120.8	119.9	118.9	118.4
77.5°	101.1	104.4	107.2	109.6	110.5	111.0	110.5	109.6	109.6	109.1	108.6
80°	90.8	94.6	97.4	99.7	101.1	101.1	100.7	101.1	100.2	99.7	99.3
82.5°	81.9	86.1	89.4	91.8	92.7	93.2	92.7	93.2	92.2	92.2	92.2
85°	74.0	78.2	81.9	83.8	85.2	85.7	85.7	85.7	85.2	85.2	85.2
87.5°	67.4	71.6	75.4	77.2	78.7	79.1	79.1	79.6	78.7	78.7	78.7
90°	61.3	65.5	69.3	71.2	72.6	73.5	73.5	74.0	73.5	73.0	73.0
92.5°	55.7	60.4	64.1	66.0	67.4	68.8	68.8	69.3	68.4	68.4	68.4
95°	51.0	55.7	59.0	61.3	62.7	63.7	64.1	64.1	63.7	63.7	63.7
97.5°	46.8	51.0	54.3	56.6	58.1	58.5	59.0	59.5	59.0	59.0	59.0
100°	42.6	46.8	50.1	52.0	53.8	54.3	54.8	55.2	55.2	54.8	54.8
102.5°	38.9	43.1	45.9	48.2	49.6	50.6	51.0	51.0	51.0	51.0	51.0
105°	35.1	39.3	42.1	44.5	45.9	46.8	47.3	47.8	47.8	47.3	47.3
107.5°	31.8	35.6	38.9	40.7	42.6	43.5	44.0	44.0	44.5	44.0	44.0
110°	28.6	32.8	35.6	37.5	39.3	40.3	40.7	41.2	41.2	41.2	41.2



TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	26.2	29.5	32.3	34.2	36.0	37.0	37.5	37.9	38.4	37.9	37.9
115°	23.4	26.7	29.5	31.4	32.8	33.7	34.6	35.1	35.1	35.6	35.1
117.5°	21.1	23.9	26.7	28.6	30.0	31.4	31.8	32.3	32.8	32.3	32.3
120°	18.7	21.5	23.9	25.7	27.2	28.6	29.0	29.5	30.0	29.5	29.5
122.5°	16.9	19.2	21.5	23.4	24.8	25.7	26.7	26.7	27.2	27.2	27.2
125°	15.0	17.3	19.2	21.1	22.5	23.4	23.9	24.3	24.3	24.8	24.8
127.5°	13.1	15.0	17.3	18.7	20.1	21.1	21.5	22.0	22.0	22.5	22.5
130°	11.2	13.1	15.0	16.4	17.8	18.7	19.2	19.7	20.1	20.1	20.1
132.5°	9.8	11.7	13.1	14.5	15.4	16.4	17.3	17.8	17.8	17.8	17.8
135°	8.0	9.8	11.2	12.6	13.6	14.5	15.0	15.9	15.9	15.9	15.9
137.5°	6.6	8.4	9.8	10.8	11.7	12.6	13.1	13.6	14.0	14.0	14.0
140°	5.1	6.6	8.0	9.4	10.3	10.8	11.7	11.7	12.2	12.2	12.2
142.5°	3.7	5.1	6.1	7.5	8.4	9.4	9.8	10.3	10.3	10.3	10.3
145°	2.8	3.7	4.7	5.6	7.0	7.5	8.0	8.4	8.9	8.9	8.9
147.5°	1.9	2.8	3.3	4.2	5.1	6.1	6.6	7.0	7.5	7.5	7.5
150°	1.4	1.9	2.8	3.3	3.7	4.7	5.6	5.6	6.1	6.1	5.6
152.5°	0.9	1.4	1.9	2.3	2.8	3.3	4.2	4.2	4.7	4.7	4.7
155°	0.9	0.9	0.9	1.4	1.9	2.3	2.8	3.3	3.3	3.3	3.3
157.5°	0.9	0.9	0.9	0.9	0.9	1.4	1.9	2.3	2.3	2.3	2.3
160°	0.9	0.9	0.5	0.5	0.9	0.9	0.9	0.9	1.4	1.4	1.4
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: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	850.2	851.1	851.1	850.2	849.7	851.6	849.3	840.4	843.2	844.1	846.9
5°	846.0	846.9	846.9	846.9	846.0	847.9	845.5	836.6	839.9	841.3	843.2
7.5°	839.9	840.4	841.3	840.8	839.9	842.7	840.4	831.5	833.8	836.2	838.5
10°	831.9	831.9	832.4	833.3	832.4	834.7	832.4	824.4	826.8	828.2	831.0
12.5°	821.2	822.1	822.6	822.1	821.6	823.5	822.6	815.1	816.0	818.8	821.6
15°	806.7	806.7	809.0	808.1	808.1	809.9	810.9	802.4	803.9	808.1	810.9
17.5°	788.9	789.3	791.2	792.1	791.7	795.0	795.4	788.9	788.4	793.6	796.4
20°	765.9	766.9	769.2	771.1	771.1	774.8	776.2	772.0	772.5	778.1	779.0
22.5°	737.8	737.8	742.1	744.9	747.2	749.5	753.8	750.0	750.0	757.5	761.7
25°	703.2	706.5	707.9	713.5	716.8	723.3	727.1	727.5	728.0	735.0	737.8
27.5°	664.8	665.7	670.0	676.5	680.3	686.3	693.4	694.8	697.1	706.5	710.7
30°	621.3	624.1	625.9	635.3	640.5	648.4	657.3	660.6	662.5	675.1	680.3
32.5°	576.8	577.7	585.7	590.8	596.9	605.3	615.6	621.7	625.5	638.6	646.1
35°	532.3	534.2	540.7	547.3	553.4	561.8	572.6	581.0	587.6	599.3	609.1
37.5°	491.6	496.3	497.7	504.2	508.9	517.3	524.8	537.0	543.5	555.7	568.4
40°	455.1	456.5	457.4	464.0	467.2	475.2	486.0	493.9	502.8	511.7	526.7
42.5°	419.0	419.9	421.4	425.1	428.8	434.5	442.4	450.4	459.7	472.9	482.7
45°	385.8	386.7	387.6	390.0	393.3	398.4	403.6	409.2	418.5	429.8	440.1
47.5°	354.9	356.7	356.7	357.2	359.6	363.8	367.5	374.5	379.7	385.8	397.5
50°	325.4	326.8	327.3	327.3	328.7	331.5	332.4	337.1	341.8	347.4	355.8
52.5°	297.8	297.8	297.3	299.2	299.2	301.0	301.5	304.3	307.6	313.7	317.4
55°	271.5	271.5	272.9	272.0	272.0	272.9	272.5	272.9	275.8	279.5	282.8
57.5°	246.3	245.8	247.2	246.3	245.8	246.7	247.7	245.8	246.3	250.0	250.0
60°	221.0	221.4	222.8	221.9	221.9	221.9	221.0	220.0	219.1	221.4	222.4
62.5°	200.8	199.4	200.8	199.4	200.4	199.9	199.0	197.1	197.6	196.6	195.7
65°	179.8	179.8	180.2	178.8	179.8	179.8	178.4	177.9	175.1	174.2	171.8
67.5°	161.5	161.5	162.0	161.1	161.1	161.5	160.1	158.7	155.9	154.5	151.2
70°	145.6	145.6	145.6	145.1	145.1	145.1	144.2	142.3	139.5	137.2	133.0
72.5°	131.1	131.6	131.1	131.1	132.5	131.1	129.7	127.8	125.5	120.8	117.0
75°	119.4	119.9	119.4	119.4	119.4	118.9	118.4	115.6	112.8	109.1	103.5
77.5°	109.1	109.1	109.6	109.1	109.1	108.6	107.2	104.9	101.6	98.3	91.8
80°	99.3	99.7	100.2	100.7	99.7	99.3	97.8	96.0	91.8	88.0	81.5
82.5°	92.2	91.8	92.2	92.7	91.8	91.3	89.9	87.5	84.3	79.1	72.6
85°	85.2	84.7	84.7	85.2	84.7	83.8	82.4	80.1	76.8	71.6	65.1
87.5°	78.2	78.7	79.1	78.7	78.2	77.2	75.8	73.5	69.8	65.5	58.5
90°	73.0	73.0	73.0	73.0	72.6	71.6	70.2	67.4	64.1	59.0	52.9
92.5°	68.4	68.4	68.4	68.4	67.9	66.5	65.1	62.7	59.0	53.8	48.2
95°	63.7	64.1	63.7	63.7	62.7	62.3	59.9	57.6	54.3	49.2	43.1
97.5°	58.5	59.0	58.5	58.5	58.1	57.1	55.7	52.9	49.6	44.9	39.3
100°	54.8	54.8	54.3	54.3	53.8	52.9	51.0	48.7	45.4	40.7	35.1
102.5°	50.6	51.0	50.6	50.6	49.6	48.7	47.3	44.9	41.7	37.0	31.8
105°	47.3	47.3	46.8	46.8	45.9	44.9	43.5	40.7	37.9	33.7	28.6
107.5°	44.0	44.0	43.5	43.5	42.6	41.7	39.8	37.5	34.6	30.4	25.7
110°	40.7	40.7	40.7	40.3	39.3	37.9	36.5	34.2	31.4	27.6	22.9

TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	38.4	37.9	37.5	37.0	36.0	35.1	33.2	30.9	28.1	24.8	20.6
115°	35.1	35.1	34.6	34.2	33.2	31.8	30.4	28.6	25.7	22.0	18.3
117.5°	32.3	32.3	31.8	31.4	30.4	29.0	27.6	25.7	22.9	19.7	16.4
120°	29.5	29.5	29.0	28.6	27.6	26.2	25.3	22.9	20.6	17.3	14.5
122.5°	27.2	26.7	26.7	25.7	25.3	23.9	22.5	20.6	18.3	15.4	12.6
125°	24.3	24.3	23.9	23.4	22.9	21.5	20.1	18.3	15.9	13.6	11.2
127.5°	22.0	22.0	21.5	21.1	20.6	19.2	17.8	16.4	14.0	11.7	9.4
130°	19.7	19.7	19.2	18.7	18.3	16.9	15.9	14.0	12.2	10.3	8.0
132.5°	17.8	17.8	17.3	16.9	15.9	15.0	14.0	12.2	10.8	8.9	7.0
135°	15.9	15.4	15.4	15.0	14.0	13.1	12.2	10.8	8.9	7.5	5.6
137.5°	14.0	13.6	13.1	12.6	12.2	11.2	10.3	9.4	8.0	6.1	4.7
140°	12.2	11.7	11.7	11.2	10.3	9.8	8.9	7.5	6.6	5.1	3.7
142.5°	10.3	10.3	9.8	9.4	8.9	8.4	7.5	6.6	5.1	4.2	2.8
145°	8.9	8.4	8.4	8.0	7.5	6.6	6.1	5.1	4.2	3.3	2.3
147.5°	7.0	7.0	7.0	6.6	6.1	5.6	5.1	4.2	3.3	2.3	1.4
150°	5.6	5.6	5.6	5.1	4.7	4.2	3.7	3.3	2.3	1.4	0.9
152.5°	4.7	4.7	4.2	4.2	3.7	3.3	2.8	2.3	1.4	0.9	0.9
155°	3.3	3.3	3.3	2.8	2.8	2.3	1.9	1.4	0.9	0.9	0.9
157.5°	2.3	2.3	2.3	1.9	1.9	1.4	1.4	0.9	0.9	0.9	0.9
160°	1.4	1.4	1.4	1.4	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: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	851.1	851.1	851.1	851.1	851.1	851.1	851.1
2.5°	845.5	845.0	848.8	848.8	844.6	851.1	858.2
5°	842.7	842.2	846.0	846.0	842.2	848.8	856.3
7.5°	837.1	837.6	841.3	842.2	837.6	843.6	851.6
10°	831.0	830.5	834.7	835.7	831.9	837.6	845.0
12.5°	821.2	821.2	825.4	826.8	823.0	829.6	836.6
15°	810.9	810.9	813.7	816.0	812.7	818.8	825.9
17.5°	797.8	797.3	800.1	802.9	799.6	806.2	813.7
20°	780.9	780.9	784.2	787.5	785.1	791.2	799.6
22.5°	763.1	761.2	766.9	769.2	767.8	773.9	782.3
25°	740.6	740.2	745.8	749.1	747.2	753.8	761.2
27.5°	716.3	715.8	721.5	725.7	724.7	730.8	739.2
30°	686.8	689.1	694.3	701.3	699.0	705.5	714.4
32.5°	655.9	658.2	664.3	671.8	672.3	677.4	686.3
35°	618.9	625.0	629.2	639.1	640.9	646.1	655.4
37.5°	580.1	587.1	596.0	603.5	607.2	611.4	622.2
40°	536.5	546.8	556.7	565.6	570.2	574.4	584.7
42.5°	497.2	505.2	514.5	523.4	531.8	535.6	546.4
45°	452.7	462.1	470.5	481.3	489.7	493.9	504.7
47.5°	409.2	418.5	429.8	437.3	446.2	450.4	460.7
50°	367.5	375.9	385.3	394.2	401.7	405.4	414.3
52.5°	326.3	335.2	344.1	349.7	357.7	360.5	368.0
55°	289.8	295.9	303.8	307.1	315.1	317.0	322.1
57.5°	254.7	258.9	261.7	267.3	272.9	277.2	283.2
60°	222.8	224.7	226.6	229.9	234.6	236.0	238.3
62.5°	194.3	193.8	197.6	198.5	199.0	203.7	201.3
65°	169.0	169.5	166.2	164.8	166.7	168.1	167.1
67.5°	147.9	145.1	142.3	139.0	136.2	137.6	136.2
70°	127.3	125.0	120.3	115.6	113.8	111.0	109.6
72.5°	111.0	105.3	100.7	94.6	91.3	88.0	85.7
75°	98.3	90.4	83.8	77.2	72.6	67.9	66.9
77.5°	85.2	77.7	70.2	63.2	56.2	51.0	49.2
80°	74.9	67.9	59.0	50.6	43.1	36.5	34.2
82.5°	65.5	58.1	49.2	40.3	31.8	24.8	22.0
85°	57.6	49.6	40.7	31.8	23.4	15.9	12.2
87.5°	51.5	42.6	33.7	25.3	16.4	8.9	4.7
90°	45.9	37.5	29.0	20.1	11.7	4.7	0.0
92.5°	40.7	32.8	24.3	16.4	8.9	2.8	0.5
95°	36.0	29.0	20.6	13.1	6.6	1.9	0.5
97.5°	32.3	25.3	17.8	10.8	5.1	1.4	0.5
100°	29.0	22.0	15.4	8.9	4.2	0.9	0.5
102.5°	25.7	19.7	13.1	7.5	3.3	0.5	0.5
105°	22.9	17.3	11.2	6.6	2.8	0.5	0.5
107.5°	20.6	15.4	9.8	5.6	1.9	0.5	0.5
110°	18.3	13.1	8.4	4.7	1.4	0.5	0.5



TEST NUMBER: P1214029

CATALOG NUMBER: 2SNLED-LD5-22SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	16.4	11.7	7.5	3.7	0.9	0.5	0.5
115°	14.5	10.3	6.6	3.3	0.9	0.5	0.5
117.5°	12.6	8.9	5.6	2.3	0.5	0.5	0.5
120°	11.2	8.0	4.7	1.9	0.5	0.5	0.5
122.5°	9.8	6.6	3.7	1.4	0.5	0.5	0.5
125°	8.4	5.6	3.3	0.9	0.5	0.5	0.5
127.5°	7.0	4.7	2.3	0.9	0.5	0.5	0.5
130°	6.1	3.7	1.9	0.5	0.5	0.5	0.5
132.5°	5.1	2.8	1.4	0.5	0.5	0.5	0.5
135°	4.2	2.3	0.9	0.5	0.5	0.5	0.5
137.5°	3.3	1.9	0.9	0.5	0.5	0.5	0.5
140°	2.3	1.4	0.5	0.5	0.5	0.5	0.5
142.5°	1.9	0.9	0.5	0.5	0.5	0.5	0.5
145°	1.4	0.9	0.5	0.5	0.5	0.5	0.5
147.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5
150°	0.9	0.9	0.5	0.5	0.9	0.5	0.5
152.5°	0.9	0.5	0.5	0.5	0.9	0.5	0.5
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.5
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)