

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: P1213373

Luminaire Tested: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213373
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: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

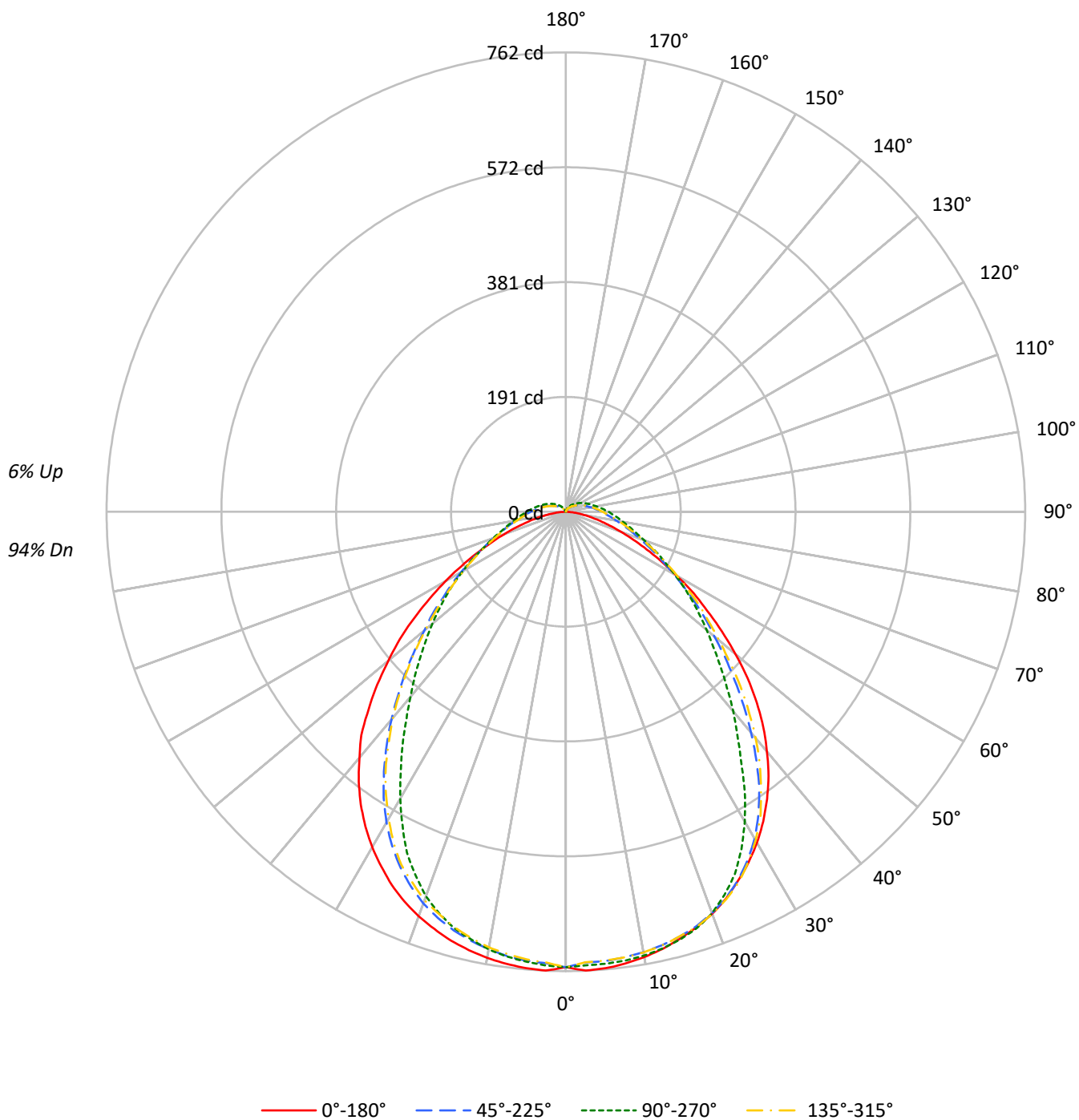
Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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°	6105	6105	6105	6105
5°	6149	5911	6149	5885
10°	6121	5754	6132	5674
15°	6082	5582	6110	5437
20°	6035	5361	6071	5134
25°	5938	5033	6004	4737
30°	5813	4551	5889	4213
35°	5617	3961	5725	3688
40°	5336	3464	5477	3214
45°	4965	3011	5125	2838
50°	4458	2646	4654	2512
55°	3856	2336	4136	2219
60°	3243	2051	3536	1933
65°	2659	1814	2926	1681
70°	2115	1610	2370	1489
75°	1661	1486	1871	1367
80°	1198	1434	1411	1310
85°	738	1442	991	1325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 5125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.7
10°-20°	205.4	10.7
20°-30°	304.4	15.9
30°-40°	338.2	17.7
40°-50°	306.5	16.0
50°-60°	237.5	12.4
60°-70°	161.3	8.4
70°-80°	102.6	5.4
80°-90°	65.6	3.4
90°-100°	44.2	2.3
100°-110°	30.3	1.6
110°-120°	20.2	1.1
120°-130°	12.6	0.7
130°-140°	6.9	0.4
140°-150°	3.3	0.2
150°-160°	1.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	581.4	30.4
0°-40°	919.6	48.1
0°-60°	1463.7	76.6
0°-90°	1793.2	93.8
90°-120°	94.8	5.0
90°-150°	117.5	6.1
90°-180°	119.0	6.2
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	756	756	756	756	756	
5°	760	753	760	749	760	72
15°	733	734	736	715	733	207
25°	676	663	683	624	676	311
35°	582	507	593	472	582	363
45°	448	362	462	342	448	344
55°	286	255	307	242	286	257
65°	148	171	163	159	148	149
75°	59	114	67	105	59	64
85°	11	82	14	76	11	13
90°	0	71	1	65	0	1
95°	0	61	0	56	0	0
105°	0	44	0	42	0	0
115°	0	34	0	31	0	0
125°	0	25	0	22	0	0
135°	0	18	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°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	761.7	760.9	760.1	758.8	760.1	763.4	761.3	756.8	755.9	748.4	751.8
5°	760.1	758.8	758.0	756.8	758.4	762.6	760.5	756.3	755.1	748.0	751.8
7.5°	755.9	755.1	753.8	753.8	755.5	759.7	758.0	753.4	752.6	745.5	749.7
10°	750.1	749.7	748.9	748.9	750.5	755.5	753.4	749.3	748.4	741.8	746.4
12.5°	742.6	743.0	741.8	741.8	744.3	749.3	747.6	743.0	742.2	736.4	741.0
15°	733.1	733.5	732.7	733.1	735.6	741.4	739.3	735.1	734.3	729.7	733.5
17.5°	722.3	722.7	722.7	722.3	725.2	731.0	729.3	725.6	724.3	720.6	725.2
20°	709.8	709.8	709.8	709.8	713.1	718.9	716.9	714.0	711.5	708.6	712.3
22.5°	694.4	694.0	694.4	695.7	699.0	703.6	702.3	699.0	695.3	693.6	696.5
25°	675.7	677.0	677.4	678.6	682.8	686.5	685.3	682.0	676.1	674.9	675.7
27.5°	656.2	657.0	658.3	657.9	663.7	667.4	664.9	662.0	653.7	652.4	651.6
30°	634.2	635.4	636.2	635.8	640.4	644.6	642.1	638.3	627.1	626.3	619.6
32.5°	609.2	610.5	611.3	611.3	618.0	619.6	615.0	609.6	597.6	594.7	588.9
35°	581.8	583.0	583.5	583.5	590.1	589.7	583.9	576.4	563.1	559.4	549.4
37.5°	552.3	553.1	553.5	556.0	558.9	556.5	549.0	539.4	529.4	519.1	508.2
40°	519.1	520.3	521.1	522.8	525.7	522.8	512.0	500.3	489.5	477.9	467.1
42.5°	485.0	488.7	487.9	487.5	489.1	481.2	472.9	459.6	448.8	436.8	426.0
45°	448.0	447.6	449.6	450.5	450.1	443.4	431.8	419.7	408.9	396.5	387.3
47.5°	408.9	408.5	410.2	411.0	408.5	401.4	392.3	378.6	369.4	358.6	351.6
50°	367.8	367.8	370.3	367.8	366.5	359.5	352.0	338.3	331.2	321.7	317.5
52.5°	326.6	330.4	327.9	327.1	325.8	318.7	312.9	301.7	295.9	291.7	286.7
55°	285.9	290.1	288.4	287.2	286.7	280.9	275.5	267.2	263.5	260.6	257.7
57.5°	251.4	251.0	250.2	248.9	249.3	244.8	239.4	234.8	233.1	231.9	232.7
60°	211.5	214.9	213.6	214.0	214.4	213.6	209.0	206.1	206.5	207.0	208.2
62.5°	178.7	181.6	183.7	182.0	182.9	184.1	181.6	180.8	182.4	184.1	185.8
65°	148.4	151.3	153.3	152.9	155.4	157.9	157.5	158.3	162.1	164.2	166.2
67.5°	120.9	123.8	126.7	127.2	130.9	134.6	136.3	139.2	143.4	146.3	148.8
70°	97.2	99.7	103.1	105.1	110.1	115.1	118.0	123.8	126.3	130.5	132.2
72.5°	76.0	78.1	82.7	87.7	91.8	98.1	103.9	108.9	112.6	117.2	119.3
75°	59.4	60.3	65.2	71.1	76.9	83.9	90.2	95.6	100.6	105.1	108.5
77.5°	43.6	44.9	49.5	57.3	64.0	71.5	78.5	84.4	89.8	94.3	98.9
80°	30.3	32.8	37.8	45.7	53.2	61.5	68.2	74.8	80.6	85.2	89.8
82.5°	19.5	21.6	28.7	36.6	44.5	52.8	59.8	66.5	72.7	77.7	81.9
85°	10.8	13.7	20.8	29.1	37.0	45.3	52.8	59.4	65.7	70.2	74.4
87.5°	4.2	8.3	15.0	22.9	30.8	38.6	46.5	52.8	59.0	64.0	67.7
90°	0.0	5.0	11.2	19.1	27.0	34.9	42.4	49.0	54.9	59.4	63.6
92.5°	0.4	3.3	8.7	15.4	22.9	30.3	37.4	44.1	49.9	54.4	58.2
95°	0.4	2.5	7.1	13.3	19.9	27.0	33.7	39.9	45.3	49.9	53.6
97.5°	0.4	1.7	5.8	11.6	17.5	24.5	30.8	36.6	41.6	46.1	49.0
100°	0.4	1.7	5.0	10.0	15.8	22.0	27.8	33.7	38.2	42.0	45.3
102.5°	0.4	1.2	4.2	8.7	14.1	19.5	25.3	30.8	34.9	38.6	42.0
105°	0.4	1.2	3.7	7.5	12.5	17.9	22.9	27.8	32.4	35.7	38.6
107.5°	0.4	0.8	3.3	6.2	10.8	16.2	21.2	25.3	29.5	32.8	35.7
110°	0.4	0.8	2.9	5.8	9.6	14.5	19.1	23.3	27.0	30.3	32.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.8	2.5	5.4	8.7	12.9	17.5	21.2	24.9	27.8	30.3
115°	0.4	0.8	2.5	5.0	7.9	11.2	15.4	19.5	22.4	25.8	27.8
117.5°	0.4	0.8	2.1	4.2	7.5	10.4	14.1	17.5	20.8	23.7	25.8
120°	0.4	0.8	2.1	3.7	6.6	9.6	12.5	15.8	19.1	21.2	23.3
122.5°	0.4	0.8	1.7	3.7	5.8	8.7	11.2	14.1	17.0	19.5	21.6
125°	0.4	0.8	1.7	3.3	5.4	7.9	10.4	12.5	15.4	17.5	19.5
127.5°	0.4	0.8	1.7	2.9	5.0	7.1	9.6	11.6	13.7	15.8	17.5
130°	0.4	0.8	1.2	2.5	4.6	6.2	8.3	10.8	12.5	14.1	15.8
132.5°	0.4	0.8	1.2	2.5	3.7	5.4	7.5	9.6	11.2	12.9	14.1
135°	0.4	0.8	1.2	2.1	3.3	5.0	6.2	8.3	10.0	11.6	12.9
137.5°	0.4	0.8	1.2	2.1	2.9	4.2	5.4	7.1	8.7	10.0	11.6
140°	0.4	0.8	1.2	1.7	2.5	3.7	5.0	5.8	7.5	8.7	10.0
142.5°	0.4	0.8	1.2	1.7	2.5	3.3	4.2	5.0	6.2	7.5	8.7
145°	0.4	0.8	1.2	1.7	2.1	2.9	3.7	4.6	5.0	6.2	7.1
147.5°	0.4	0.8	1.2	1.7	1.7	2.5	3.3	3.7	4.6	5.0	5.8
150°	0.4	0.8	1.2	1.2	1.7	2.1	2.9	3.3	3.7	4.6	5.0
152.5°	0.4	0.8	1.2	1.2	1.7	2.1	2.5	2.9	3.3	3.7	4.2
155°	0.4	0.8	1.2	1.2	1.2	1.7	2.1	2.5	2.9	3.3	3.7
157.5°	0.8	0.8	0.8	1.2	1.2	1.7	1.7	2.1	2.5	2.5	2.9
160°	0.8	0.8	0.8	1.2	1.2	1.2	1.7	1.7	2.1	2.1	2.5
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°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	750.9	752.2	755.9	755.9	755.1	754.3	754.3	753.0	753.8	755.5	754.7
5°	750.9	752.2	755.9	755.9	755.1	754.3	753.8	752.6	753.8	755.5	754.7
7.5°	748.4	750.1	753.8	753.8	753.0	752.6	751.8	750.9	752.2	753.8	753.0
10°	745.1	746.8	750.5	750.5	749.7	749.7	748.4	747.6	749.3	750.5	750.1
12.5°	740.1	742.2	745.5	745.1	744.3	744.7	743.5	741.8	743.5	744.7	745.1
15°	733.1	735.6	738.9	738.1	736.8	737.6	735.6	734.3	735.6	738.1	737.6
17.5°	723.9	725.6	728.1	728.1	726.8	726.0	725.2	723.9	724.8	726.4	726.8
20°	711.0	713.1	714.4	713.1	712.7	711.5	709.8	708.6	710.2	712.7	713.1
22.5°	694.0	694.4	697.3	694.4	692.3	691.9	690.3	687.8	690.3	692.3	692.8
25°	672.8	674.9	673.6	668.7	668.7	665.3	664.5	663.3	663.7	667.4	669.1
27.5°	645.8	646.6	643.3	639.2	635.4	633.3	630.4	630.8	630.8	635.8	637.5
30°	616.3	611.7	608.8	602.2	599.3	594.3	593.4	593.4	592.6	595.1	602.6
32.5°	581.0	574.7	570.2	563.9	558.9	554.0	551.5	552.7	552.3	558.5	561.0
35°	542.3	538.6	529.0	521.1	518.2	510.7	510.7	507.0	509.5	516.6	519.5
37.5°	501.6	495.8	487.9	479.2	477.1	471.3	469.2	467.1	472.5	473.8	476.7
40°	460.0	454.6	447.2	438.8	438.8	431.8	431.8	431.8	432.2	434.7	440.1
42.5°	420.6	414.7	408.1	402.3	401.4	396.0	396.0	395.6	396.5	398.5	403.5
45°	382.3	377.8	370.7	367.8	368.2	362.4	363.6	362.4	364.0	366.1	367.8
47.5°	347.0	344.1	341.2	337.0	335.8	335.4	333.3	331.6	334.5	334.5	337.0
50°	314.2	312.5	310.8	308.4	308.8	307.1	304.6	304.6	306.7	307.1	308.8
52.5°	285.5	283.4	281.3	281.8	282.2	281.3	280.1	278.8	280.1	280.9	283.0
55°	256.8	255.2	257.2	256.4	257.2	256.4	255.6	254.7	256.8	255.6	257.7
57.5°	231.1	232.7	233.6	231.9	233.1	232.3	232.7	231.5	233.1	234.0	233.6
60°	207.4	209.9	208.6	209.0	210.7	209.9	208.2	209.4	211.1	211.5	211.1
62.5°	185.8	188.7	189.9	189.1	189.5	188.7	189.9	188.3	190.3	191.2	189.9
65°	166.2	169.6	170.4	170.4	170.4	169.6	170.8	171.2	172.0	172.0	171.2
67.5°	149.6	152.5	153.3	154.2	153.3	152.5	152.5	152.9	154.6	155.4	154.6
70°	134.6	137.6	138.0	138.0	138.4	139.2	137.6	138.4	139.6	140.0	139.6
72.5°	121.8	124.7	125.5	125.1	125.5	125.9	125.9	125.1	126.3	127.2	127.2
75°	111.4	113.0	113.9	113.9	114.3	114.7	114.7	114.3	115.1	115.5	115.9
77.5°	101.8	103.1	104.3	104.3	104.7	104.3	105.1	105.1	105.6	106.0	106.4
80°	92.3	93.9	94.8	95.2	96.0	96.4	96.4	96.4	96.8	97.2	97.2
82.5°	84.8	86.0	87.3	88.5	88.5	88.9	88.9	88.9	89.3	89.3	89.8
85°	77.3	79.0	80.2	81.0	81.5	81.9	81.9	82.3	82.3	82.3	82.7
87.5°	70.6	72.7	73.6	74.4	74.8	75.6	75.6	75.6	76.0	76.0	76.0
90°	66.1	68.2	69.0	69.8	70.2	70.6	70.6	71.1	71.1	71.5	71.5
92.5°	60.7	62.8	64.4	64.4	64.8	65.7	65.2	65.2	65.7	66.1	66.1
95°	56.5	58.2	59.4	59.8	60.3	60.3	60.3	60.7	60.3	60.7	60.7
97.5°	51.5	53.2	54.4	55.3	55.7	55.7	55.7	56.1	55.7	56.1	56.1
100°	47.4	49.0	50.3	50.7	51.5	51.5	51.5	51.5	51.5	51.5	51.9
102.5°	44.1	45.7	46.5	47.0	47.4	47.8	47.8	47.8	47.8	48.2	48.2
105°	40.7	42.4	43.2	43.6	44.1	44.5	44.5	44.5	44.9	44.9	44.5
107.5°	37.8	39.1	39.9	40.7	41.1	41.1	41.6	41.6	41.6	41.6	41.6
110°	34.9	36.2	37.4	38.2	38.2	38.6	38.6	39.1	39.1	38.6	39.1



TEST NUMBER: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	32.0	33.7	34.5	35.3	35.7	36.2	36.2	36.2	36.2	36.2	36.2
115°	29.5	31.2	32.0	32.8	33.2	33.7	33.7	33.7	33.7	33.7	33.7
117.5°	27.4	29.1	29.9	30.3	30.8	31.2	31.6	31.6	31.6	31.6	31.2
120°	25.3	26.6	27.4	28.3	28.7	29.1	29.1	29.1	29.1	29.1	29.1
122.5°	23.3	24.5	25.3	26.2	26.6	27.0	27.0	27.0	27.0	27.0	27.0
125°	21.2	22.4	23.3	24.1	24.5	24.9	24.9	24.9	24.9	24.9	24.9
127.5°	19.1	20.4	21.6	22.0	22.4	22.9	22.9	22.9	23.3	22.9	22.9
130°	17.0	18.3	19.5	19.9	20.4	20.8	21.2	21.2	21.2	21.2	20.8
132.5°	15.4	16.6	17.5	17.9	18.7	18.7	19.1	19.1	19.1	19.1	18.7
135°	14.1	15.0	15.8	16.2	17.0	17.0	17.0	17.5	17.5	17.0	16.6
137.5°	12.5	13.3	14.1	14.5	15.0	15.4	15.4	15.8	15.4	15.4	15.4
140°	11.6	12.1	12.9	13.3	13.7	13.7	13.7	14.1	14.1	13.7	13.7
142.5°	10.0	10.8	11.6	12.1	12.5	12.5	12.5	12.5	12.5	12.5	12.5
145°	8.3	9.6	10.0	10.8	10.8	11.2	11.2	11.2	11.2	11.2	10.8
147.5°	7.1	7.9	9.1	9.6	9.6	10.0	10.0	10.0	10.0	10.0	9.6
150°	5.4	6.2	7.5	8.3	8.3	8.7	8.7	8.7	8.7	8.3	8.3
152.5°	4.6	5.4	5.8	6.6	7.1	7.1	7.1	7.5	7.1	7.1	7.1
155°	4.2	4.6	5.0	5.4	5.8	6.2	6.2	6.2	6.2	5.8	5.8
157.5°	3.3	3.7	4.2	4.6	5.0	5.4	5.4	5.4	5.4	5.4	5.0
160°	2.5	2.9	3.3	3.3	3.7	4.2	4.6	4.2	4.2	4.2	4.2
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: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	753.8	753.4	754.7	752.6	746.4	748.0	747.2	750.9	751.8	752.6	756.3
5°	753.8	753.4	754.3	752.6	746.0	747.2	746.4	750.1	750.9	751.4	755.1
7.5°	752.2	751.8	753.0	750.9	743.9	745.5	744.3	748.0	748.4	748.9	752.2
10°	748.9	748.4	749.3	747.6	740.6	742.2	740.6	744.3	744.3	745.1	747.6
12.5°	743.9	743.0	744.7	742.6	734.7	736.8	736.0	738.5	738.9	739.3	741.8
15°	736.8	736.0	737.2	736.0	728.9	729.3	728.1	731.8	732.2	731.4	733.9
17.5°	726.4	725.6	728.1	727.3	720.2	721.8	721.4	722.3	723.5	721.4	724.8
20°	713.5	714.4	715.2	715.6	710.2	710.2	709.8	711.5	712.7	711.0	713.5
22.5°	694.4	696.5	699.0	699.8	696.1	695.7	698.2	697.3	698.6	697.7	699.4
25°	670.3	674.5	677.0	679.5	677.4	678.2	682.0	682.8	682.8	682.4	684.0
27.5°	640.4	645.8	650.4	655.8	653.7	655.4	661.6	662.4	664.1	662.4	665.7
30°	604.7	609.6	618.4	626.3	627.1	629.6	638.3	639.2	643.7	642.1	643.3
32.5°	568.9	571.4	581.4	589.3	594.3	600.5	610.1	611.7	618.0	619.2	619.2
35°	524.0	531.1	540.2	551.5	557.7	564.3	577.2	579.7	588.9	591.8	595.1
37.5°	486.2	492.9	498.7	510.3	521.5	529.0	539.4	545.6	555.2	560.6	564.8
40°	445.9	451.3	457.5	469.2	478.7	490.0	500.3	507.8	519.9	526.1	531.5
42.5°	407.7	411.8	418.5	426.8	436.8	449.2	459.2	467.9	480.8	489.5	495.8
45°	373.6	376.1	381.9	388.1	396.9	409.8	419.3	430.5	440.9	450.1	457.5
47.5°	341.6	344.9	347.8	352.0	359.9	367.8	379.0	389.8	400.2	410.2	417.7
50°	312.1	312.1	316.7	319.6	325.0	332.0	340.8	348.2	361.1	368.2	377.8
52.5°	283.4	285.1	287.6	289.2	293.4	298.0	305.0	311.3	322.1	328.7	337.9
55°	258.1	259.7	261.0	261.8	264.3	269.7	272.2	277.2	284.7	290.1	298.0
57.5°	234.0	234.8	236.0	236.5	236.9	240.2	242.3	243.5	251.0	256.4	263.1
60°	211.9	211.9	213.2	212.8	212.4	214.0	213.6	214.9	219.4	222.7	225.7
62.5°	191.2	191.2	191.6	190.7	190.3	190.3	188.7	189.9	191.2	191.6	193.7
65°	172.0	174.1	172.5	172.9	170.4	169.6	168.7	166.2	165.8	164.2	165.0
67.5°	155.0	156.7	155.0	155.0	152.9	151.3	149.2	145.0	143.8	140.5	139.6
70°	141.3	140.0	140.9	139.6	137.1	135.1	132.2	128.8	124.7	120.5	117.6
72.5°	128.0	128.0	127.2	125.9	124.7	120.5	117.2	113.5	108.5	103.1	98.9
75°	115.1	115.5	115.5	114.3	112.2	108.5	104.7	99.3	93.9	87.7	82.3
77.5°	106.0	106.0	106.0	103.9	101.8	98.5	93.9	88.1	82.3	74.8	68.6
80°	97.2	96.8	96.8	94.3	92.3	88.5	83.9	78.1	71.9	64.0	56.9
82.5°	90.2	89.8	88.9	86.9	83.9	80.2	75.6	69.4	62.8	55.7	47.0
85°	82.7	82.3	81.5	79.4	76.5	73.1	68.2	61.9	55.3	47.4	39.1
87.5°	76.0	75.6	74.4	73.1	69.8	66.1	61.1	55.3	48.2	40.7	32.4
90°	71.5	70.6	69.8	68.2	65.2	61.1	56.1	49.9	42.8	35.3	27.0
92.5°	66.1	65.7	64.4	62.8	60.3	56.1	51.1	45.3	38.2	31.2	23.3
95°	60.7	60.3	59.4	57.8	55.3	51.5	47.0	41.1	34.5	27.4	20.4
97.5°	55.7	55.7	54.4	53.2	50.3	47.4	42.8	37.4	31.2	24.9	18.3
100°	51.5	51.5	50.3	48.6	46.5	43.6	39.1	34.1	28.3	22.4	15.8
102.5°	47.8	47.4	46.5	44.9	42.8	39.9	35.7	31.2	25.8	19.9	14.1
105°	44.5	44.1	43.2	41.6	39.9	36.6	33.2	28.7	23.3	17.9	12.5
107.5°	41.1	40.7	40.3	38.6	36.6	33.7	30.3	25.8	21.2	16.2	11.2
110°	38.2	37.8	37.0	35.3	33.2	30.8	27.4	23.7	19.1	14.5	10.0

TEST NUMBER: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	35.7	35.3	34.5	32.8	31.2	28.3	25.3	21.2	17.5	13.3	8.7
115°	33.2	32.8	32.0	30.3	28.3	25.8	22.9	19.5	15.4	11.6	7.9
117.5°	30.8	30.3	29.5	28.3	26.2	23.7	20.8	17.5	13.7	10.8	7.1
120°	28.7	27.8	27.0	25.8	23.7	21.6	18.7	15.8	12.5	9.6	6.2
122.5°	26.6	25.8	24.9	23.7	21.6	19.5	16.6	14.1	11.6	8.7	5.8
125°	24.1	23.7	22.9	21.6	19.5	17.5	15.4	12.9	10.4	7.9	5.0
127.5°	22.0	21.6	20.8	19.1	17.5	15.8	13.7	11.6	9.1	6.6	4.6
130°	20.4	19.5	18.7	17.5	16.2	14.5	12.5	10.4	8.3	5.8	4.2
132.5°	18.3	17.5	16.6	15.8	14.5	12.9	11.2	9.1	7.5	5.4	3.7
135°	16.6	15.8	15.0	14.1	12.9	11.6	10.0	8.3	6.6	5.0	3.3
137.5°	14.5	14.1	13.7	12.9	11.6	10.4	9.1	7.1	5.8	4.6	2.9
140°	13.3	12.9	12.5	11.2	10.4	9.1	7.9	6.2	5.0	3.7	2.5
142.5°	12.1	11.6	10.8	10.0	9.1	8.3	6.6	5.8	4.6	3.3	2.5
145°	10.4	10.0	9.6	8.7	7.9	6.6	5.8	5.0	4.2	2.9	2.1
147.5°	9.6	9.1	8.3	7.5	6.6	5.8	5.4	4.6	3.3	2.5	1.7
150°	7.9	7.5	7.1	6.2	5.8	5.4	4.6	3.7	2.9	2.1	1.7
152.5°	6.6	6.2	5.8	5.8	5.0	4.6	3.7	3.3	2.5	2.1	1.2
155°	5.8	5.8	5.4	5.0	4.2	3.7	3.3	2.5	2.1	1.7	1.2
157.5°	5.0	4.6	4.2	4.2	3.7	3.3	2.5	2.1	1.7	1.7	1.2
160°	4.2	3.7	3.7	3.3	2.9	2.5	2.1	2.1	1.7	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: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	756.8	752.2	756.3	761.7	761.7	760.9	760.1	761.7	765.9	764.2	759.3
5°	755.5	750.9	754.7	760.1	760.1	758.8	758.0	759.3	763.8	761.7	757.2
7.5°	753.0	748.9	751.4	756.3	756.3	755.1	754.3	755.9	759.7	757.6	752.6
10°	748.4	743.9	746.8	751.4	750.9	750.1	748.9	750.9	754.3	751.4	745.5
12.5°	742.6	738.1	740.6	744.7	744.3	742.6	741.8	743.0	746.0	744.3	738.1
15°	734.7	730.2	732.2	736.4	735.1	733.9	732.2	732.7	736.4	733.5	726.8
17.5°	725.2	720.2	721.8	725.6	724.3	723.1	721.0	721.4	725.6	721.4	714.4
20°	713.5	708.1	709.4	714.0	711.9	709.8	707.7	707.7	711.9	707.3	699.4
22.5°	701.1	695.7	696.5	699.8	698.2	694.4	692.3	693.6	695.7	689.9	681.5
25°	685.7	678.6	679.9	683.2	682.0	677.0	674.9	675.7	674.9	670.3	661.6
27.5°	667.8	660.3	661.2	663.3	661.6	657.0	654.5	654.9	653.3	647.5	637.5
30°	645.4	641.6	641.2	642.5	640.0	635.4	632.5	631.7	631.3	622.9	610.9
32.5°	622.5	619.2	617.1	618.8	615.9	611.3	606.3	606.3	602.2	594.3	583.9
35°	599.3	593.9	591.8	593.0	589.7	583.9	579.7	577.6	571.4	561.4	550.2
37.5°	569.3	565.6	563.1	564.3	560.6	556.5	548.6	546.5	539.8	526.1	512.0
40°	536.9	534.0	531.5	532.8	528.6	522.4	515.3	512.0	504.5	489.1	477.9
42.5°	502.0	500.8	497.9	502.4	494.1	487.9	480.8	475.4	467.9	451.3	438.4
45°	465.0	467.9	461.3	462.5	457.1	451.7	444.2	436.4	428.9	413.1	398.5
47.5°	426.0	428.0	423.5	424.3	418.5	413.5	406.8	396.9	388.6	374.8	362.0
50°	385.7	384.8	384.8	384.0	379.4	373.2	366.5	357.4	349.1	336.6	325.8
52.5°	342.8	344.5	345.3	347.4	341.6	337.9	327.5	319.6	313.3	300.5	291.3
55°	301.7	307.5	305.9	306.7	300.0	297.1	288.8	282.6	273.4	266.0	260.1
57.5°	264.3	265.6	266.4	267.6	264.7	258.9	252.3	247.3	240.2	234.0	229.8
60°	228.1	228.1	228.6	230.6	227.7	222.7	217.8	214.0	209.0	205.3	202.8
62.5°	194.1	197.0	197.4	195.7	192.0	189.5	186.2	184.1	180.8	179.5	178.7
65°	162.5	162.5	162.5	163.3	161.2	159.6	157.5	157.1	158.3	156.7	157.5
67.5°	135.9	134.6	133.8	134.2	133.4	132.6	132.2	133.4	135.9	135.9	138.0
70°	113.0	110.5	108.9	108.9	108.9	109.3	110.5	113.0	117.2	118.9	121.8
72.5°	94.3	88.9	86.4	86.4	86.9	88.5	92.3	96.8	100.6	103.9	107.6
75°	76.5	71.1	67.3	66.9	67.7	70.2	75.6	79.8	86.0	90.6	95.2
77.5°	61.9	55.3	50.7	50.3	51.5	55.3	61.9	67.3	74.4	79.4	84.4
80°	49.5	42.0	38.2	35.7	37.8	42.4	49.9	56.5	63.2	69.8	76.0
82.5°	39.5	32.4	26.6	24.1	26.6	32.8	39.9	47.8	54.4	61.5	67.7
85°	31.2	23.7	17.0	14.5	17.5	24.1	32.0	39.9	47.4	54.4	60.7
87.5°	24.5	17.0	10.4	7.1	10.8	17.9	25.3	33.2	41.1	48.2	54.4
90°	19.1	12.1	5.8	0.8	6.2	12.9	20.4	27.8	35.7	42.8	49.0
92.5°	16.2	9.1	3.3	0.0	3.7	9.6	16.6	24.1	31.2	38.2	44.5
95°	13.7	7.5	2.5	0.0	2.5	7.5	13.7	20.4	27.4	34.5	40.7
97.5°	11.6	5.8	1.7	0.0	1.7	5.8	11.2	17.9	24.1	30.8	36.6
100°	10.0	5.0	1.2	0.0	1.2	4.6	9.6	15.4	21.6	27.8	33.2
102.5°	8.7	4.2	0.8	0.0	0.8	3.7	7.9	13.3	18.7	24.5	29.9
105°	7.5	3.3	0.8	0.0	0.4	2.9	6.6	11.6	16.6	22.0	27.0
107.5°	6.6	2.9	0.8	0.0	0.4	2.5	5.8	10.0	15.0	19.5	24.1
110°	5.8	2.5	0.8	0.0	0.4	1.7	5.0	8.7	12.9	17.5	22.0

TEST NUMBER: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.0	2.1	0.4	0.0	0.0	1.2	4.2	7.5	11.2	15.8	19.5
115°	4.6	2.1	0.4	0.0	0.0	0.8	3.3	6.6	10.0	14.1	17.5
117.5°	4.2	1.7	0.4	0.0	0.4	0.8	2.9	5.8	8.7	12.1	15.8
120°	3.7	1.7	0.4	0.0	0.4	0.4	2.1	5.0	7.5	10.8	13.7
122.5°	3.3	1.7	0.4	0.0	0.4	0.4	1.7	4.2	6.6	9.6	12.1
125°	2.9	1.2	0.8	0.4	0.4	0.4	1.2	3.3	5.8	7.9	10.8
127.5°	2.9	1.2	0.8	0.4	0.4	0.4	0.8	2.9	4.6	7.1	9.6
130°	2.5	1.2	0.8	0.4	0.4	0.4	0.4	2.1	4.2	5.8	7.9
132.5°	2.1	1.2	0.8	0.4	0.4	0.4	0.4	1.2	2.9	5.0	6.6
135°	2.1	1.2	0.8	0.4	0.4	0.4	0.4	0.8	2.1	3.7	5.4
137.5°	1.7	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.7	2.9	4.2
140°	1.7	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.2	2.1	3.3
142.5°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.7	2.5
145°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.7
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: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	757.6	749.7	753.8	752.6	754.3	757.6	757.2	756.3	756.3	755.1	753.4
5°	755.1	747.6	751.4	749.3	751.4	754.3	753.8	752.6	753.4	751.4	749.3
7.5°	750.1	743.5	746.8	745.1	746.8	749.7	748.4	748.0	748.9	745.5	744.3
10°	744.3	736.8	740.6	738.5	740.6	742.6	741.8	740.1	741.8	738.5	737.2
12.5°	735.1	728.9	731.4	730.6	731.8	733.9	732.2	731.0	731.8	728.9	726.4
15°	725.2	718.9	721.0	719.8	720.6	723.1	720.2	719.8	718.9	716.0	715.2
17.5°	712.3	706.5	708.6	706.5	707.7	706.9	706.5	704.4	704.4	701.1	698.6
20°	696.5	691.5	690.3	688.6	690.3	688.6	686.1	684.4	684.0	680.7	678.6
22.5°	678.2	672.4	673.2	668.7	669.1	666.6	662.4	660.8	659.1	655.4	652.4
25°	656.2	650.4	646.2	643.3	639.6	639.2	633.7	629.6	629.2	624.6	624.2
27.5°	631.3	624.6	621.3	614.2	609.6	605.9	601.3	597.2	595.1	590.1	586.8
30°	602.6	595.1	586.8	581.8	574.7	571.8	563.9	558.9	557.3	551.9	549.4
32.5°	570.2	562.3	555.6	546.1	538.2	534.0	526.1	521.1	519.1	513.2	509.9
35°	534.8	526.1	518.2	509.1	502.8	495.8	486.2	481.2	476.7	474.6	472.1
37.5°	497.9	488.3	479.2	470.0	464.6	456.3	448.0	444.7	439.3	437.2	434.7
40°	459.6	450.1	441.3	432.6	426.4	418.9	411.4	410.2	404.4	402.3	400.6
42.5°	421.8	411.8	401.9	395.6	391.1	383.6	378.6	377.3	372.4	371.1	371.1
45°	387.7	375.3	367.0	361.5	357.8	351.6	347.4	346.6	342.4	341.6	341.6
47.5°	351.2	339.5	333.3	330.0	326.6	322.1	319.6	319.6	315.4	314.6	314.2
50°	317.1	306.3	301.7	298.4	298.0	294.6	292.6	291.7	291.7	288.8	289.2
52.5°	284.7	279.3	275.5	273.4	271.0	268.9	267.2	267.2	266.0	263.9	264.7
55°	254.7	248.5	248.9	247.3	246.0	244.8	245.2	242.7	242.3	240.6	241.9
57.5°	224.8	224.8	224.0	222.7	220.7	221.5	221.5	221.5	219.4	218.2	219.4
60°	199.5	200.7	198.6	199.9	199.1	199.5	198.6	198.6	197.4	197.0	197.4
62.5°	177.0	179.1	178.3	179.9	179.1	179.5	180.4	178.7	177.9	177.0	177.9
65°	157.1	159.6	159.2	160.4	160.8	161.2	161.7	160.8	160.0	159.2	158.7
67.5°	139.6	142.1	143.8	144.2	144.6	145.9	145.5	144.6	143.8	142.5	142.1
70°	123.8	127.2	129.2	130.1	131.7	130.9	130.9	130.5	129.7	128.4	128.0
72.5°	110.5	114.3	116.4	117.2	118.9	118.9	118.4	118.0	117.2	115.9	115.5
75°	98.9	102.2	105.1	106.8	108.0	108.0	107.6	107.2	106.4	105.6	105.1
77.5°	89.8	92.7	95.2	97.2	98.1	98.5	98.1	97.2	97.2	96.8	96.4
80°	80.6	83.9	86.4	88.5	89.8	89.8	89.3	89.8	88.9	88.5	88.1
82.5°	72.7	76.5	79.4	81.5	82.3	82.7	82.3	82.7	81.9	81.9	81.9
85°	65.7	69.4	72.7	74.4	75.6	76.0	76.0	76.0	75.6	75.6	75.6
87.5°	59.8	63.6	66.9	68.6	69.8	70.2	70.2	70.6	69.8	69.8	69.8
90°	54.4	58.2	61.5	63.2	64.4	65.2	65.2	65.7	65.2	64.8	64.8
92.5°	49.5	53.6	56.9	58.6	59.8	61.1	61.1	61.5	60.7	60.7	60.7
95°	45.3	49.5	52.4	54.4	55.7	56.5	56.9	56.9	56.5	56.5	56.5
97.5°	41.6	45.3	48.2	50.3	51.5	51.9	52.4	52.8	52.4	52.4	52.4
100°	37.8	41.6	44.5	46.1	47.8	48.2	48.6	49.0	49.0	48.6	48.6
102.5°	34.5	38.2	40.7	42.8	44.1	44.9	45.3	45.3	45.3	45.3	45.3
105°	31.2	34.9	37.4	39.5	40.7	41.6	42.0	42.4	42.4	42.0	42.0
107.5°	28.3	31.6	34.5	36.2	37.8	38.6	39.1	39.1	39.5	39.1	39.1
110°	25.3	29.1	31.6	33.2	34.9	35.7	36.2	36.6	36.6	36.6	36.6



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CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	23.3	26.2	28.7	30.3	32.0	32.8	33.2	33.7	34.1	33.7	33.7
115°	20.8	23.7	26.2	27.8	29.1	29.9	30.8	31.2	31.2	31.6	31.2
117.5°	18.7	21.2	23.7	25.3	26.6	27.8	28.3	28.7	29.1	28.7	28.7
120°	16.6	19.1	21.2	22.9	24.1	25.3	25.8	26.2	26.6	26.2	26.2
122.5°	15.0	17.0	19.1	20.8	22.0	22.9	23.7	23.7	24.1	24.1	24.1
125°	13.3	15.4	17.0	18.7	19.9	20.8	21.2	21.6	21.6	22.0	22.0
127.5°	11.6	13.3	15.4	16.6	17.9	18.7	19.1	19.5	19.5	19.9	19.9
130°	10.0	11.6	13.3	14.5	15.8	16.6	17.0	17.5	17.9	17.9	17.9
132.5°	8.7	10.4	11.6	12.9	13.7	14.5	15.4	15.8	15.8	15.8	15.8
135°	7.1	8.7	10.0	11.2	12.1	12.9	13.3	14.1	14.1	14.1	14.1
137.5°	5.8	7.5	8.7	9.6	10.4	11.2	11.6	12.1	12.5	12.5	12.5
140°	4.6	5.8	7.1	8.3	9.1	9.6	10.4	10.4	10.8	10.8	10.8
142.5°	3.3	4.6	5.4	6.6	7.5	8.3	8.7	9.1	9.1	9.1	9.1
145°	2.5	3.3	4.2	5.0	6.2	6.6	7.1	7.5	7.9	7.9	7.9
147.5°	1.7	2.5	2.9	3.7	4.6	5.4	5.8	6.2	6.6	6.6	6.6
150°	1.2	1.7	2.5	2.9	3.3	4.2	5.0	5.0	5.4	5.4	5.0
152.5°	0.8	1.2	1.7	2.1	2.5	2.9	3.7	3.7	4.2	4.2	4.2
155°	0.8	0.8	0.8	1.2	1.7	2.1	2.5	2.9	2.9	2.9	2.9
157.5°	0.8	0.8	0.8	0.8	0.8	1.2	1.7	2.1	2.1	2.1	2.1
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: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	754.7	755.5	755.5	754.7	754.3	755.9	753.8	746.0	748.4	749.3	751.8
5°	750.9	751.8	751.8	751.8	750.9	752.6	750.5	742.6	745.5	746.8	748.4
7.5°	745.5	746.0	746.8	746.4	745.5	748.0	746.0	738.1	740.1	742.2	744.3
10°	738.5	738.5	738.9	739.7	738.9	741.0	738.9	731.8	733.9	735.1	737.6
12.5°	728.9	729.7	730.2	729.7	729.3	731.0	730.2	723.5	724.3	726.8	729.3
15°	716.0	716.0	718.1	717.3	717.3	718.9	719.8	712.3	713.5	717.3	719.8
17.5°	700.2	700.7	702.3	703.1	702.7	705.6	706.1	700.2	699.8	704.4	706.9
20°	679.9	680.7	682.8	684.4	684.4	687.8	689.0	685.3	685.7	690.7	691.5
22.5°	654.9	654.9	658.7	661.2	663.3	665.3	669.1	665.7	665.7	672.4	676.1
25°	624.2	627.1	628.3	633.3	636.2	642.1	645.4	645.8	646.2	652.4	654.9
27.5°	590.1	590.9	594.7	600.5	603.8	609.2	615.5	616.7	618.8	627.1	630.8
30°	551.5	554.0	555.6	563.9	568.5	575.6	583.5	586.4	588.0	599.3	603.8
32.5°	512.0	512.8	519.9	524.5	529.9	537.3	546.5	551.9	555.2	566.8	573.5
35°	472.5	474.2	480.0	485.8	491.2	498.7	508.2	515.7	521.5	531.9	540.7
37.5°	436.4	440.5	441.8	447.6	451.7	459.2	465.9	476.7	482.5	493.3	504.5
40°	403.9	405.2	406.0	411.8	414.7	421.8	431.4	438.4	446.3	454.2	467.5
42.5°	371.9	372.8	374.0	377.3	380.7	385.7	392.7	399.8	408.1	419.7	428.5
45°	342.4	343.3	344.1	346.2	349.1	353.7	358.2	363.2	371.5	381.5	390.6
47.5°	315.0	316.7	316.7	317.1	319.2	322.9	326.2	332.5	337.0	342.4	352.8
50°	288.8	290.1	290.5	290.5	291.7	294.2	295.1	299.2	303.4	308.4	315.8
52.5°	264.3	264.3	263.9	265.6	265.6	267.2	267.6	270.1	273.0	278.4	281.8
55°	241.0	241.0	242.3	241.4	241.4	242.3	241.9	242.3	244.8	248.1	251.0
57.5°	218.6	218.2	219.4	218.6	218.2	219.0	219.8	218.2	218.6	221.9	221.9
60°	196.2	196.6	197.8	197.0	197.0	197.0	196.2	195.3	194.5	196.6	197.4
62.5°	178.3	177.0	178.3	177.0	177.9	177.4	176.6	175.0	175.4	174.5	173.7
65°	159.6	159.6	160.0	158.7	159.6	159.6	158.3	157.9	155.4	154.6	152.5
67.5°	143.4	143.4	143.8	143.0	143.0	143.4	142.1	140.9	138.4	137.1	134.2
70°	129.2	129.2	129.2	128.8	128.8	128.8	128.0	126.3	123.8	121.8	118.0
72.5°	116.4	116.8	116.4	116.4	117.6	116.4	115.1	113.5	111.4	107.2	103.9
75°	106.0	106.4	106.0	106.0	106.0	105.6	105.1	102.6	100.2	96.8	91.8
77.5°	96.8	96.8	97.2	96.8	96.8	96.4	95.2	93.1	90.2	87.3	81.5
80°	88.1	88.5	88.9	89.3	88.5	88.1	86.9	85.2	81.5	78.1	72.3
82.5°	81.9	81.5	81.9	82.3	81.5	81.0	79.8	77.7	74.8	70.2	64.4
85°	75.6	75.2	75.2	75.6	75.2	74.4	73.1	71.1	68.2	63.6	57.8
87.5°	69.4	69.8	70.2	69.8	69.4	68.6	67.3	65.2	61.9	58.2	51.9
90°	64.8	64.8	64.8	64.8	64.4	63.6	62.3	59.8	56.9	52.4	47.0
92.5°	60.7	60.7	60.7	60.7	60.3	59.0	57.8	55.7	52.4	47.8	42.8
95°	56.5	56.9	56.5	56.5	55.7	55.3	53.2	51.1	48.2	43.6	38.2
97.5°	51.9	52.4	51.9	51.9	51.5	50.7	49.5	47.0	44.1	39.9	34.9
100°	48.6	48.6	48.2	48.2	47.8	47.0	45.3	43.2	40.3	36.2	31.2
102.5°	44.9	45.3	44.9	44.9	44.1	43.2	42.0	39.9	37.0	32.8	28.3
105°	42.0	42.0	41.6	41.6	40.7	39.9	38.6	36.2	33.7	29.9	25.3
107.5°	39.1	39.1	38.6	38.6	37.8	37.0	35.3	33.2	30.8	27.0	22.9
110°	36.2	36.2	36.2	35.7	34.9	33.7	32.4	30.3	27.8	24.5	20.4

TEST NUMBER: P1213373

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	34.1	33.7	33.2	32.8	32.0	31.2	29.5	27.4	24.9	22.0	18.3
115°	31.2	31.2	30.8	30.3	29.5	28.3	27.0	25.3	22.9	19.5	16.2
117.5°	28.7	28.7	28.3	27.8	27.0	25.8	24.5	22.9	20.4	17.5	14.5
120°	26.2	26.2	25.8	25.3	24.5	23.3	22.4	20.4	18.3	15.4	12.9
122.5°	24.1	23.7	23.7	22.9	22.4	21.2	19.9	18.3	16.2	13.7	11.2
125°	21.6	21.6	21.2	20.8	20.4	19.1	17.9	16.2	14.1	12.1	10.0
127.5°	19.5	19.5	19.1	18.7	18.3	17.0	15.8	14.5	12.5	10.4	8.3
130°	17.5	17.5	17.0	16.6	16.2	15.0	14.1	12.5	10.8	9.1	7.1
132.5°	15.8	15.8	15.4	15.0	14.1	13.3	12.5	10.8	9.6	7.9	6.2
135°	14.1	13.7	13.7	13.3	12.5	11.6	10.8	9.6	7.9	6.6	5.0
137.5°	12.5	12.1	11.6	11.2	10.8	10.0	9.1	8.3	7.1	5.4	4.2
140°	10.8	10.4	10.4	10.0	9.1	8.7	7.9	6.6	5.8	4.6	3.3
142.5°	9.1	9.1	8.7	8.3	7.9	7.5	6.6	5.8	4.6	3.7	2.5
145°	7.9	7.5	7.5	7.1	6.6	5.8	5.4	4.6	3.7	2.9	2.1
147.5°	6.2	6.2	6.2	5.8	5.4	5.0	4.6	3.7	2.9	2.1	1.2
150°	5.0	5.0	5.0	4.6	4.2	3.7	3.3	2.9	2.1	1.2	0.8
152.5°	4.2	4.2	3.7	3.7	3.3	2.9	2.5	2.1	1.2	0.8	0.8
155°	2.9	2.9	2.9	2.5	2.5	2.1	1.7	1.2	0.8	0.8	0.8
157.5°	2.1	2.1	2.1	1.7	1.7	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: P1213373

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	750.5	750.1	753.4	753.4	749.7	755.5	761.7
5°	748.0	747.6	750.9	750.9	747.6	753.4	760.1
7.5°	743.0	743.5	746.8	747.6	743.5	748.9	755.9
10°	737.6	737.2	741.0	741.8	738.5	743.5	750.1
12.5°	728.9	728.9	732.7	733.9	730.6	736.4	742.6
15°	719.8	719.8	722.3	724.3	721.4	726.8	733.1
17.5°	708.1	707.7	710.2	712.7	709.8	715.6	722.3
20°	693.2	693.2	696.1	699.0	696.9	702.3	709.8
22.5°	677.4	675.7	680.7	682.8	681.5	686.9	694.4
25°	657.4	657.0	662.0	664.9	663.3	669.1	675.7
27.5°	635.8	635.4	640.4	644.1	643.3	648.7	656.2
30°	609.6	611.7	616.3	622.5	620.5	626.3	634.2
32.5°	582.2	584.3	589.7	596.3	596.8	601.3	609.2
35°	549.4	554.8	558.5	567.3	568.9	573.5	581.8
37.5°	514.9	521.1	529.0	535.7	539.0	542.7	552.3
40°	476.2	485.4	494.1	502.0	506.2	509.9	519.1
42.5°	441.3	448.4	456.7	464.6	472.1	475.4	485.0
45°	401.9	410.2	417.7	427.2	434.7	438.4	448.0
47.5°	363.2	371.5	381.5	388.1	396.0	399.8	408.9
50°	326.2	333.7	342.0	349.9	356.6	359.9	367.8
52.5°	289.7	297.6	305.4	310.4	317.5	320.0	326.6
55°	257.2	262.6	269.7	272.6	279.7	281.3	285.9
57.5°	226.1	229.8	232.3	237.3	242.3	246.0	251.4
60°	197.8	199.5	201.1	204.0	208.2	209.4	211.5
62.5°	172.5	172.0	175.4	176.2	176.6	180.8	178.7
65°	150.0	150.4	147.5	146.3	147.9	149.2	148.4
67.5°	131.3	128.8	126.3	123.4	120.9	122.2	120.9
70°	113.0	111.0	106.8	102.6	101.0	98.5	97.2
72.5°	98.5	93.5	89.3	83.9	81.0	78.1	76.0
75°	87.3	80.2	74.4	68.6	64.4	60.3	59.4
77.5°	75.6	69.0	62.3	56.1	49.9	45.3	43.6
80°	66.5	60.3	52.4	44.9	38.2	32.4	30.3
82.5°	58.2	51.5	43.6	35.7	28.3	22.0	19.5
85°	51.1	44.1	36.2	28.3	20.8	14.1	10.8
87.5°	45.7	37.8	29.9	22.4	14.5	7.9	4.2
90°	40.7	33.2	25.8	17.9	10.4	4.2	0.0
92.5°	36.2	29.1	21.6	14.5	7.9	2.5	0.4
95°	32.0	25.8	18.3	11.6	5.8	1.7	0.4
97.5°	28.7	22.4	15.8	9.6	4.6	1.2	0.4
100°	25.8	19.5	13.7	7.9	3.7	0.8	0.4
102.5°	22.9	17.5	11.6	6.6	2.9	0.4	0.4
105°	20.4	15.4	10.0	5.8	2.5	0.4	0.4
107.5°	18.3	13.7	8.7	5.0	1.7	0.4	0.4
110°	16.2	11.6	7.5	4.2	1.2	0.4	0.4

TEST NUMBER: P1213373

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	14.5	10.4	6.6	3.3	0.8	0.4	0.4
115°	12.9	9.1	5.8	2.9	0.8	0.4	0.4
117.5°	11.2	7.9	5.0	2.1	0.4	0.4	0.4
120°	10.0	7.1	4.2	1.7	0.4	0.4	0.4
122.5°	8.7	5.8	3.3	1.2	0.4	0.4	0.4
125°	7.5	5.0	2.9	0.8	0.4	0.4	0.4
127.5°	6.2	4.2	2.1	0.8	0.4	0.4	0.4
130°	5.4	3.3	1.7	0.4	0.4	0.4	0.4
132.5°	4.6	2.5	1.2	0.4	0.4	0.4	0.4
135°	3.7	2.1	0.8	0.4	0.4	0.4	0.4
137.5°	2.9	1.7	0.8	0.4	0.4	0.4	0.4
140°	2.1	1.2	0.4	0.4	0.4	0.4	0.4
142.5°	1.7	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)