

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: P1213330

Luminaire Tested: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

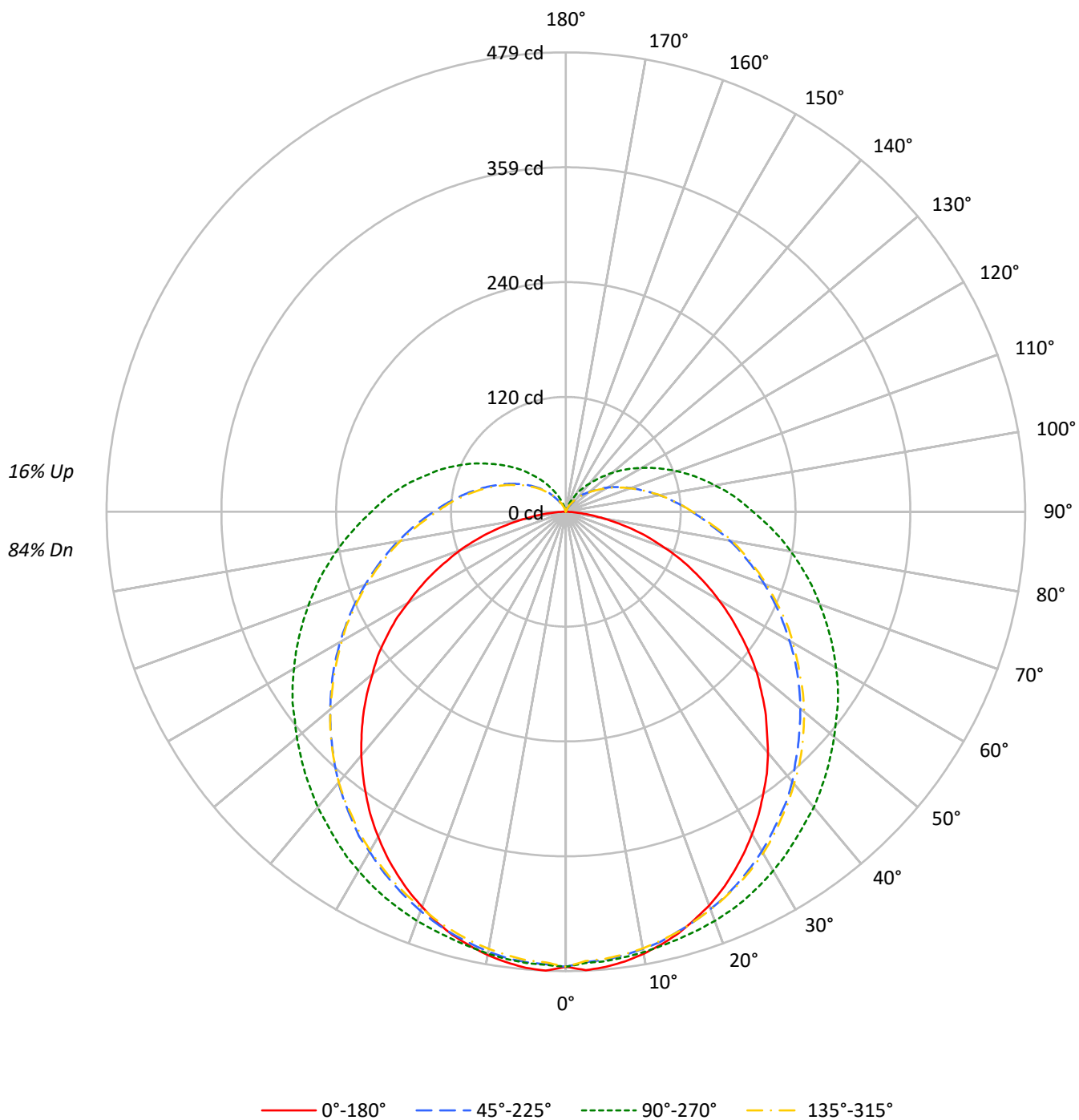
Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 21
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84		
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64		
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51		
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42		
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35		
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30		
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26		
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23		
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20		
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18		
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7667	7667	7667	7667
5°	7687	7389	7703	7420
10°	7595	7179	7620	7202
15°	7486	6999	7519	7007
20°	7347	6868	7372	6868
25°	7179	6752	7222	6744
30°	6994	6631	7048	6631
35°	6782	6520	6858	6528
40°	6571	6455	6651	6455
45°	6329	6386	6426	6395
50°	6077	6346	6159	6363
55°	5735	6352	5916	6380
60°	5370	6372	5548	6411
65°	4961	6435	5180	6498
70°	4400	6553	4743	6646
75°	3752	6768	4106	6898
80°	2783	7086	3161	7249
85°	1514	7596	1893	7806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 8727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	2.2
10°-20°	129.2	6.3
20°-30°	198.0	9.6
30°-40°	244.3	11.9
40°-50°	265.0	12.9
50°-60°	261.2	12.7
60°-70°	236.2	11.5
70°-80°	196.8	9.5
80°-90°	152.4	7.4
90°-100°	115.6	5.6
100°-110°	85.5	4.1
110°-120°	59.5	2.9
120°-130°	38.0	1.8
130°-140°	21.3	1.0
140°-150°	9.7	0.5
150°-160°	3.0	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	372.1	18.1
0°-40°	616.4	29.9
0°-60°	1142.7	55.4
0°-90°	1728.0	83.8
90°-120°	260.6	12.6
90°-150°	329.6	16.0
90°-180°	333.0	16.2
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	474	474	474	474	474	
5°	476	470	477	472	476	45
15°	455	460	457	461	455	128
25°	414	445	417	444	414	191
35°	359	417	363	418	359	225
45°	294	384	299	385	294	227
55°	222	346	229	348	222	198
65°	147	304	154	307	147	146
75°	74	260	81	265	74	78
85°	14	217	18	223	14	17
90°	0	195	1	203	0	1
95°	0	177	0	186	0	0
105°	0	141	0	149	0	1
115°	0	107	0	117	0	0
125°	0	77	0	86	0	0
135°	0	50	0	59	0	0
145°	0	29	0	36	0	0
155°	0	12	0	16	0	0
165°	0	2	0	3	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°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	478.4	478.4	477.9	476.9	477.4	478.9	477.9	475.4	473.9	469.9	470.9
5°	476.4	476.4	475.9	474.9	475.4	477.4	476.4	474.4	472.4	468.9	470.4
7.5°	472.9	472.9	472.4	471.4	472.4	474.4	473.4	471.4	469.9	466.4	467.9
10°	467.9	468.4	467.9	466.4	468.4	470.4	469.9	467.4	465.9	462.9	464.4
12.5°	461.9	462.4	461.9	461.4	462.4	465.4	464.4	462.4	461.4	458.9	460.4
15°	454.9	455.4	454.4	454.4	455.4	458.4	458.4	456.4	455.4	452.9	455.9
17.5°	445.9	446.4	445.9	445.9	446.9	449.9	450.4	449.4	448.4	447.4	450.4
20°	436.9	436.4	436.4	435.9	437.9	442.4	441.9	441.9	440.9	440.9	444.4
22.5°	426.3	426.3	425.8	425.8	428.3	432.3	432.3	433.3	432.3	434.3	437.4
25°	414.3	414.8	414.3	415.3	417.3	421.8	422.3	423.8	424.3	426.3	429.8
27.5°	401.8	402.3	401.8	402.8	406.3	409.8	412.3	414.3	414.8	417.8	422.3
30°	388.3	388.3	388.8	389.8	393.8	399.3	401.3	403.8	403.8	408.8	413.3
32.5°	374.3	374.3	374.3	376.3	380.8	387.3	389.8	392.8	393.8	398.8	403.8
35°	358.8	359.3	359.3	360.8	366.8	373.3	376.8	380.3	382.3	388.3	393.3
37.5°	344.3	345.3	343.8	345.8	354.3	359.8	363.8	367.3	370.8	378.8	382.8
40°	327.8	328.8	328.3	332.3	339.3	346.3	350.8	354.3	359.3	367.3	371.8
42.5°	310.2	311.3	312.3	316.8	324.3	331.3	336.8	341.3	347.3	354.3	361.8
45°	294.2	294.2	295.7	301.2	309.2	316.8	323.3	328.3	335.3	342.8	350.3
47.5°	276.2	276.7	278.7	285.2	293.7	302.7	308.7	315.3	322.8	330.8	339.3
50°	259.7	259.7	262.7	269.7	277.7	287.7	294.2	301.7	309.7	319.3	327.8
52.5°	240.7	241.7	246.2	252.7	263.2	272.2	279.7	287.7	297.2	307.2	316.8
55°	221.7	223.7	227.2	236.2	247.2	255.7	264.7	274.7	283.7	294.7	305.7
57.5°	203.2	204.7	210.2	219.2	230.7	241.2	250.7	260.2	271.2	282.2	293.7
60°	184.1	186.1	192.7	201.7	214.2	225.2	236.2	246.2	257.7	269.2	281.2
62.5°	166.1	167.6	175.1	185.6	198.2	210.2	221.2	233.2	245.7	256.7	268.7
65°	147.1	149.6	158.1	167.6	182.1	194.2	206.7	219.7	232.7	244.7	256.2
67.5°	129.6	131.1	140.1	151.1	165.6	179.1	192.2	206.2	219.7	232.2	243.7
70°	109.1	114.1	123.1	134.6	150.1	164.1	178.1	192.7	207.2	220.2	231.2
72.5°	92.1	96.1	106.1	118.6	133.6	150.1	164.6	180.1	194.7	208.2	219.7
75°	74.1	78.1	89.6	103.6	119.1	136.6	151.6	167.6	182.6	196.2	208.2
77.5°	56.5	61.5	74.1	88.6	105.6	123.6	139.1	155.1	170.6	185.1	197.2
80°	40.5	46.0	59.5	76.1	92.6	110.6	127.6	143.6	159.1	173.6	186.1
82.5°	26.0	32.0	46.5	63.1	80.6	98.6	116.1	132.1	147.6	162.1	175.1
85°	14.0	20.5	35.5	52.0	69.6	87.6	105.1	122.1	137.1	150.6	164.6
87.5°	4.0	12.0	26.5	43.0	61.0	77.6	94.6	111.6	126.6	141.1	153.6
90°	0.5	7.0	20.0	35.5	53.0	69.1	86.1	102.1	117.1	131.6	144.1
92.5°	0.5	4.5	15.5	29.5	45.5	62.0	79.1	94.6	108.6	123.1	135.6
95°	0.5	3.5	12.5	25.0	40.0	55.5	71.6	86.6	101.1	114.6	127.1
97.5°	0.5	2.5	10.0	21.5	35.0	49.5	65.1	80.1	94.1	107.1	118.6
100°	0.5	2.0	8.0	18.5	30.5	44.5	58.5	73.1	86.6	99.1	111.1
102.5°	0.5	1.5	7.0	15.5	27.0	39.5	53.0	66.6	79.6	91.6	103.6
105°	0.5	1.5	6.0	13.5	24.0	35.5	48.0	61.0	73.1	84.6	95.6
107.5°	0.5	1.0	5.0	11.5	21.0	32.0	43.5	56.0	67.1	78.1	88.6
110°	0.5	1.0	4.0	10.5	18.5	28.5	39.5	51.0	61.5	72.1	82.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	1.0	3.5	9.0	16.0	25.5	35.5	46.0	56.0	66.6	75.6
115°	0.5	1.0	3.0	8.0	15.0	22.0	32.0	41.5	51.5	61.0	69.6
117.5°	0.5	1.0	2.5	6.5	13.0	20.0	28.0	37.5	46.5	55.5	63.6
120°	0.5	1.0	2.0	6.0	11.5	18.0	25.0	33.5	42.0	50.5	59.0
122.5°	0.5	0.5	2.0	5.0	10.0	16.0	23.0	29.5	37.5	45.5	53.0
125°	0.5	0.5	2.0	4.5	8.5	14.5	20.5	26.5	33.5	40.5	47.0
127.5°	0.5	0.5	1.5	3.5	7.5	12.5	18.0	24.5	29.5	36.0	42.5
130°	0.5	0.5	1.5	3.0	6.5	10.5	16.0	21.5	27.5	32.0	37.5
132.5°	0.5	0.5	1.5	2.5	5.0	8.5	13.5	18.5	24.0	29.0	33.5
135°	0.5	0.5	1.0	2.0	4.0	7.0	11.0	15.5	21.0	26.0	30.5
137.5°	0.5	0.5	1.0	2.0	3.0	6.0	8.5	12.5	17.5	22.0	26.5
140°	0.5	0.5	1.0	1.5	2.5	4.5	7.0	10.0	14.0	18.0	23.0
142.5°	0.5	0.5	0.5	1.5	2.0	3.5	5.5	8.0	11.0	14.5	18.5
145°	0.5	0.5	0.5	1.5	2.0	2.5	4.5	6.5	8.5	11.0	14.5
147.5°	0.5	0.5	0.5	1.0	1.5	2.0	3.5	5.0	6.5	8.5	10.5
150°	0.5	0.5	0.5	1.0	1.5	2.0	2.5	3.5	5.0	7.0	8.5
152.5°	0.5	0.5	0.5	1.0	1.0	1.5	2.0	2.5	3.5	5.0	6.0
155°	0.5	0.5	0.5	0.5	1.0	1.5	2.0	2.0	2.5	3.5	4.5
157.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.0	2.0	3.0
160°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	1.5	1.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
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°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	470.9	471.4	472.9	472.9	471.9	471.9	471.4	470.9	471.4	472.4	472.4
5°	469.9	470.4	471.9	472.4	471.4	470.9	470.9	470.4	470.9	471.9	471.9
7.5°	467.9	468.4	469.9	470.4	469.4	469.4	468.9	468.4	469.4	469.9	469.9
10°	464.9	465.4	467.4	467.9	467.4	466.9	466.9	466.4	466.9	467.9	467.9
12.5°	460.9	461.9	464.4	464.4	464.4	463.9	463.9	463.4	463.9	464.9	464.4
15°	456.4	458.4	460.4	461.4	461.4	461.4	460.9	460.4	461.4	461.9	461.4
17.5°	451.4	453.9	456.9	457.9	457.9	458.4	457.9	457.4	458.4	458.4	457.9
20°	446.4	448.9	451.9	452.9	453.9	454.4	454.4	453.9	454.4	454.9	454.4
22.5°	439.9	442.9	446.4	447.9	448.9	449.9	449.9	449.9	450.4	450.9	449.9
25°	432.8	436.4	440.4	441.9	443.9	444.4	444.9	444.9	445.4	445.9	444.4
27.5°	425.3	429.3	433.3	435.9	437.4	438.4	438.4	438.9	439.4	439.9	438.4
30°	416.3	422.3	425.8	427.8	429.8	431.3	431.8	432.3	432.8	433.3	431.8
32.5°	408.3	413.3	417.8	420.3	422.8	424.8	425.3	425.3	426.3	426.3	424.8
35°	398.8	404.8	409.3	411.8	414.8	416.3	417.3	417.3	418.3	418.3	416.8
37.5°	389.3	395.3	400.3	403.3	406.8	408.8	409.3	409.3	410.3	410.3	408.3
40°	379.3	385.8	391.3	394.8	397.8	400.3	400.8	402.3	402.3	401.8	399.8
42.5°	369.3	375.3	381.3	385.3	389.3	391.8	392.8	393.3	393.3	392.8	391.3
45°	358.3	365.3	370.8	375.8	379.8	382.3	383.8	384.3	384.3	383.3	381.8
47.5°	347.8	354.8	360.3	365.8	369.8	372.8	374.3	374.8	374.3	373.8	372.3
50°	336.8	344.8	350.3	355.8	359.8	362.3	364.8	365.3	364.8	364.3	361.3
52.5°	325.3	333.8	339.8	345.3	349.8	352.8	354.8	355.3	355.3	354.3	352.3
55°	313.8	321.3	328.8	334.8	339.8	342.8	345.3	346.3	345.3	344.3	341.8
57.5°	303.2	310.2	317.8	324.3	329.3	333.3	335.3	336.3	335.3	333.8	331.3
60°	290.7	298.2	306.7	312.8	318.3	322.3	323.3	325.3	324.3	322.8	320.3
62.5°	278.7	287.7	295.2	302.7	307.2	311.8	313.8	314.8	313.8	312.3	309.7
65°	266.2	276.2	283.7	291.2	296.2	300.7	303.2	303.7	302.7	301.2	298.7
67.5°	254.7	264.2	272.2	280.2	284.7	289.2	291.7	292.7	291.7	289.7	287.2
70°	243.2	252.7	262.2	268.2	273.7	278.7	280.2	281.7	280.7	278.7	275.7
72.5°	231.7	241.7	251.2	257.2	263.2	267.7	269.7	271.2	270.2	268.2	264.7
75°	219.7	230.2	239.7	246.2	252.2	256.7	258.7	260.2	259.2	257.2	253.2
77.5°	208.7	219.2	228.2	235.2	241.2	245.2	248.7	249.2	248.2	246.2	242.2
80°	197.2	207.7	217.2	224.2	230.2	234.2	236.7	238.2	237.2	235.2	231.2
82.5°	187.2	196.7	206.2	213.2	219.2	224.2	226.2	227.7	227.2	224.2	221.2
85°	176.1	187.2	194.7	202.2	208.2	213.2	214.7	216.7	216.2	213.7	209.7
87.5°	165.1	176.1	185.1	192.7	198.2	202.2	204.7	205.7	205.2	202.7	198.2
90°	156.1	166.1	175.1	183.1	187.7	192.2	194.7	195.2	195.2	192.2	188.7
92.5°	147.6	157.1	166.1	173.6	179.1	183.1	185.1	186.1	185.6	183.1	179.1
95°	138.1	148.6	157.1	164.6	170.1	174.1	176.1	177.1	176.6	174.1	170.1
97.5°	130.1	139.6	148.1	155.1	160.6	164.6	166.6	167.6	167.6	165.1	161.1
100°	122.1	131.6	139.6	146.6	151.6	155.6	157.6	158.1	157.6	155.6	151.6
102.5°	114.1	123.1	131.1	137.6	143.1	146.6	148.6	149.1	149.1	146.6	142.6
105°	106.1	115.1	122.6	129.6	134.1	137.6	139.1	140.6	140.1	138.1	134.1
107.5°	98.6	107.6	114.6	121.1	125.6	129.1	130.6	132.1	131.6	129.6	125.6
110°	91.6	100.1	106.6	113.1	117.1	120.6	123.1	123.6	122.6	120.6	117.1

TEST NUMBER: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	85.1	92.6	99.1	105.1	109.6	112.1	114.1	115.1	114.1	112.1	109.6
115°	78.1	85.6	92.1	97.6	101.6	104.6	106.1	107.1	106.1	104.1	101.6
117.5°	71.6	78.6	85.1	90.6	94.1	96.6	98.1	99.1	98.1	96.6	94.1
120°	66.1	72.1	78.1	83.1	87.1	89.1	90.6	91.6	91.1	89.1	86.6
122.5°	59.5	66.1	71.6	76.6	80.1	82.1	83.1	84.1	83.6	82.1	79.6
125°	54.0	59.5	65.1	69.6	73.1	75.1	76.1	77.1	76.6	75.1	72.1
127.5°	48.0	54.0	58.5	63.1	65.6	68.6	69.1	70.1	69.6	68.1	65.6
130°	43.5	48.0	52.5	56.5	59.5	61.5	62.6	63.1	62.0	61.0	58.5
132.5°	38.0	43.0	47.0	50.5	52.5	54.5	55.5	56.0	56.0	54.5	52.5
135°	34.0	37.5	41.0	44.5	46.5	48.5	49.5	50.0	49.5	48.5	46.5
137.5°	30.5	33.5	36.0	39.0	41.5	42.5	43.5	43.5	43.0	42.5	41.0
140°	26.5	30.0	32.5	34.5	36.5	37.0	38.0	38.0	37.5	37.0	36.0
142.5°	22.5	25.5	28.0	30.5	32.0	33.0	33.5	34.0	33.5	33.0	31.5
145°	18.0	21.5	24.0	25.5	27.5	28.0	28.5	29.0	28.5	28.0	26.5
147.5°	14.0	17.0	19.5	21.5	23.0	23.5	24.0	24.5	24.0	23.0	22.5
150°	10.0	12.5	15.5	17.5	18.5	19.5	19.5	19.5	20.0	19.0	18.0
152.5°	8.0	9.0	11.0	13.0	14.5	15.0	15.5	15.5	15.0	15.0	14.0
155°	5.5	6.5	8.0	9.5	11.0	11.5	12.0	12.0	11.5	11.5	11.0
157.5°	3.5	4.5	5.5	6.5	8.0	8.5	9.0	9.0	9.0	8.5	8.0
160°	2.0	2.5	3.0	4.0	5.0	5.5	6.0	6.0	6.0	6.0	5.5
162.5°	1.5	1.5	1.5	2.0	2.5	3.0	3.5	3.5	3.5	3.5	3.0
165°	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.0	2.0
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: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	471.9	471.9	472.4	471.4	468.4	468.9	468.9	470.9	471.9	472.4	474.9
5°	470.9	470.9	471.9	470.4	467.9	467.9	467.9	469.9	470.4	471.4	473.4
7.5°	469.4	469.4	469.9	468.4	465.4	465.4	464.9	466.9	467.9	468.4	470.4
10°	466.9	466.9	467.4	465.9	462.4	462.4	461.9	463.4	463.9	464.9	466.4
12.5°	463.4	463.4	463.4	461.9	458.4	457.9	457.4	458.9	458.9	459.4	460.9
15°	460.4	459.4	459.4	457.9	454.4	453.4	452.4	452.9	453.9	453.4	454.4
17.5°	456.9	455.9	454.9	453.4	448.9	447.4	446.4	446.9	446.4	445.9	446.9
20°	452.9	451.4	450.9	448.4	443.9	441.4	439.4	438.4	438.9	437.4	437.9
22.5°	448.4	446.4	445.4	442.4	437.9	434.8	432.3	430.3	429.8	427.8	428.3
25°	442.9	440.4	438.9	436.4	431.3	427.8	424.8	421.8	420.3	417.8	417.3
27.5°	436.4	433.8	431.8	429.3	424.3	419.8	416.3	412.3	410.3	407.3	405.8
30°	429.8	426.8	423.8	421.8	416.3	411.3	405.8	402.3	399.3	395.8	393.3
32.5°	421.8	418.8	415.8	412.8	407.8	401.8	397.3	391.8	388.3	384.3	381.3
35°	413.8	409.8	406.8	402.8	398.3	391.3	385.8	380.3	375.8	371.3	367.8
37.5°	404.8	401.8	397.3	393.8	388.3	381.3	375.3	368.3	364.3	358.3	353.8
40°	396.3	392.8	388.3	383.8	378.3	370.3	363.8	355.8	351.3	344.3	339.8
42.5°	387.8	382.8	378.3	373.3	367.3	359.8	351.8	343.8	337.8	331.3	324.8
45°	378.3	372.8	367.3	361.8	355.8	348.3	339.8	331.3	323.8	317.8	309.7
47.5°	368.3	362.8	356.3	350.3	343.8	336.3	327.3	318.3	310.2	303.2	294.7
50°	358.3	352.8	345.8	339.3	331.8	324.3	314.8	304.2	295.7	286.7	279.2
52.5°	347.8	342.3	335.8	327.3	319.3	311.8	301.7	290.7	281.2	273.7	264.2
55°	337.3	331.8	324.3	315.8	307.7	298.2	288.7	277.7	267.2	258.2	248.7
57.5°	326.3	321.3	312.8	305.7	295.7	285.7	275.7	265.2	253.7	243.2	232.2
60°	315.3	309.7	301.7	293.2	283.2	273.2	262.7	251.2	239.2	227.7	217.7
62.5°	305.2	298.2	290.7	281.7	271.2	261.7	249.7	237.2	225.2	213.2	201.2
65°	293.7	286.2	279.2	270.2	259.2	248.2	236.2	223.7	210.7	197.7	185.6
67.5°	282.2	274.7	267.2	258.2	246.7	235.2	222.7	210.2	195.7	183.1	169.1
70°	270.7	264.7	255.2	245.7	235.2	222.7	210.2	196.7	181.6	168.1	153.6
72.5°	259.2	253.2	243.7	233.7	223.7	210.7	197.2	183.6	169.6	154.1	138.6
75°	248.2	240.7	232.2	222.7	212.2	198.7	185.1	171.1	154.6	140.1	124.1
77.5°	237.7	230.7	222.2	211.7	200.2	187.2	173.1	158.6	142.1	126.6	109.1
80°	226.2	219.2	210.7	200.2	188.7	176.1	161.1	146.1	130.1	113.1	95.1
82.5°	215.2	208.7	199.2	189.7	177.1	164.6	149.6	134.6	117.6	101.1	83.6
85°	203.7	197.2	188.2	178.1	166.1	152.6	138.6	123.6	106.6	89.6	72.1
87.5°	193.7	186.1	177.1	167.1	155.1	142.1	128.6	112.6	96.1	79.6	61.5
90°	183.1	176.1	167.1	157.1	145.1	132.1	118.1	103.1	87.1	70.1	53.0
92.5°	174.1	166.6	158.1	148.1	136.1	123.6	109.6	94.6	79.1	62.6	46.0
95°	165.1	157.6	149.6	139.6	127.6	115.1	101.1	86.6	71.6	55.5	40.0
97.5°	155.1	148.6	140.6	131.1	119.1	107.1	93.6	79.6	65.1	49.5	35.0
100°	147.1	139.6	132.1	122.1	111.1	99.6	86.1	72.6	58.5	44.0	30.5
102.5°	138.1	131.1	123.6	114.1	103.1	91.6	79.1	66.1	53.0	39.5	26.5
105°	129.6	123.1	115.1	106.1	95.6	84.6	72.6	60.5	48.0	35.0	23.5
107.5°	121.1	114.6	107.1	98.6	88.6	77.6	66.6	54.5	43.0	31.5	21.0
110°	112.6	106.6	99.6	91.1	81.6	71.6	61.0	50.0	38.5	28.0	18.5

TEST NUMBER: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	105.1	99.1	92.1	84.1	75.1	65.6	55.5	45.0	34.5	25.0	16.0
115°	97.6	92.1	85.1	78.1	69.1	60.0	50.5	40.5	31.0	22.5	14.0
117.5°	90.1	84.6	78.1	71.1	63.1	54.5	45.5	36.0	28.0	20.0	12.5
120°	82.6	77.6	71.6	65.1	58.0	49.5	40.5	32.5	25.0	17.5	11.0
122.5°	75.6	71.1	65.6	59.5	52.0	44.0	36.5	29.5	22.5	15.5	9.0
125°	69.1	64.6	59.5	53.5	46.5	39.5	33.0	26.5	19.5	13.5	7.5
127.5°	62.6	58.0	53.0	47.5	42.0	35.5	29.5	23.5	17.5	12.0	6.5
130°	56.0	52.0	47.5	43.0	37.5	31.5	26.5	20.5	15.0	9.5	5.5
132.5°	49.5	46.5	42.5	38.0	33.0	28.5	23.0	18.0	13.0	8.5	5.0
135°	44.0	41.0	37.5	33.5	29.5	25.0	20.0	15.5	11.0	7.0	4.0
137.5°	39.0	36.5	33.0	29.5	26.0	21.5	17.5	13.0	9.0	6.0	3.0
140°	34.5	32.0	29.0	25.5	22.5	18.5	14.5	10.5	8.0	5.0	2.5
142.5°	30.0	27.5	25.0	22.0	19.0	15.5	12.0	9.0	6.5	4.0	2.5
145°	25.5	23.5	21.0	18.5	15.5	12.5	10.0	7.5	5.0	3.0	2.0
147.5°	21.0	19.5	17.0	15.0	12.5	10.0	8.0	6.0	4.0	2.5	1.5
150°	17.0	15.5	13.5	11.5	10.0	8.0	6.5	4.5	3.0	2.5	1.5
152.5°	13.0	12.0	10.5	9.5	8.0	6.0	4.5	3.5	2.5	2.0	1.0
155°	10.5	9.5	8.5	7.0	6.0	4.5	3.5	2.5	2.0	1.5	1.0
157.5°	7.5	7.0	6.0	5.0	4.0	3.0	2.5	2.5	1.5	1.0	0.5
160°	5.0	4.5	4.0	3.0	2.5	2.5	2.0	1.5	1.0	1.0	0.5
162.5°	3.0	2.5	2.5	2.5	2.0	2.0	1.5	1.0	1.0	0.5	0.5
165°	2.0	2.0	2.0	1.5	1.5	1.5	1.0	0.5	0.5	0.5	0.5
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: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	474.9	473.4	475.4	478.9	479.4	478.9	477.9	479.4	481.4	480.9	477.4
5°	473.9	471.9	473.9	477.4	477.4	476.9	476.4	477.9	479.9	479.4	476.4
7.5°	470.9	468.9	470.9	473.9	474.4	473.4	473.4	474.9	476.9	476.4	473.9
10°	466.9	464.9	465.9	469.4	470.4	469.4	469.4	470.9	473.4	472.9	469.9
12.5°	460.9	459.4	460.4	463.4	464.4	463.9	463.4	465.4	467.9	467.9	464.9
15°	454.4	452.4	453.4	456.9	457.4	456.4	456.9	458.4	461.4	461.4	458.9
17.5°	446.9	444.4	445.9	448.4	448.9	448.9	448.9	450.9	454.4	453.9	451.9
20°	438.4	434.8	435.9	438.4	439.4	439.4	439.4	442.9	445.4	445.4	443.4
22.5°	428.3	425.8	425.8	428.3	429.8	429.3	429.3	432.3	435.9	435.4	435.4
25°	416.8	414.8	413.8	416.8	417.3	417.8	418.8	421.8	425.8	425.8	426.3
27.5°	404.8	402.8	402.3	404.8	405.3	405.8	406.8	410.3	414.3	414.8	415.8
30°	393.3	390.3	389.3	391.3	392.3	392.8	392.8	398.3	401.8	403.3	405.3
32.5°	379.8	376.8	374.3	377.8	378.3	379.3	379.8	385.3	389.3	391.8	394.8
35°	366.3	361.3	360.3	362.8	363.8	364.3	365.3	371.3	376.8	378.8	382.8
37.5°	351.3	347.8	344.8	347.3	348.3	348.8	351.8	357.3	362.8	365.8	369.8
40°	337.3	332.8	330.3	331.8	332.8	333.3	336.8	342.8	349.3	352.8	357.8
42.5°	321.8	315.8	313.8	315.3	315.8	317.3	320.3	328.3	334.8	339.8	343.8
45°	306.2	301.7	297.2	298.7	299.2	300.2	304.7	313.3	320.3	326.3	330.8
47.5°	290.2	284.7	280.2	281.2	283.2	283.7	288.7	298.7	305.2	311.8	317.8
50°	274.2	266.7	263.2	263.2	264.2	266.7	273.2	283.2	290.2	297.7	304.2
52.5°	257.7	250.7	246.7	247.2	248.2	251.2	257.2	267.2	275.2	283.2	291.2
55°	241.2	233.7	229.7	228.7	229.7	233.7	240.7	251.2	259.2	268.7	277.2
57.5°	224.7	215.7	212.2	210.7	211.7	216.7	223.7	234.7	244.7	253.7	263.7
60°	206.7	199.7	193.7	190.2	192.7	199.2	206.7	218.2	228.7	238.7	249.7
62.5°	191.2	182.1	175.6	172.1	174.6	180.1	190.7	201.7	213.2	224.7	235.7
65°	173.6	164.6	157.1	153.6	156.1	162.6	173.1	185.1	197.7	209.2	222.2
67.5°	156.6	147.1	138.1	134.6	137.6	144.6	156.1	169.6	183.1	195.2	209.2
70°	140.1	129.6	120.1	117.6	119.6	129.1	140.1	153.6	167.6	181.6	196.2
72.5°	125.1	112.1	102.1	99.1	101.6	112.1	124.6	138.6	153.6	168.6	184.1
75°	107.6	95.6	84.6	81.1	84.1	93.6	109.1	124.1	140.1	156.1	170.6
77.5°	93.6	79.6	68.1	62.6	67.6	79.6	94.6	110.6	127.1	143.6	160.1
80°	79.1	64.6	52.0	46.0	51.5	64.6	79.6	97.1	115.6	132.1	147.1
82.5°	66.1	50.5	37.5	31.0	37.0	51.5	68.1	85.6	103.6	120.1	137.6
85°	54.0	38.0	24.5	17.5	26.0	39.0	56.5	74.6	93.1	110.1	127.1
87.5°	44.0	28.5	15.0	7.5	16.0	30.5	47.0	65.1	83.6	100.6	116.6
90°	36.0	20.5	8.0	1.0	9.5	23.0	39.0	56.5	74.1	91.6	107.6
92.5°	29.5	15.5	4.5	0.5	6.0	18.5	33.5	50.0	67.1	84.1	99.6
95°	24.5	12.0	3.0	0.5	4.5	14.5	28.5	44.5	60.5	77.1	92.6
97.5°	21.0	10.0	2.5	0.5	3.5	12.5	24.5	39.5	55.0	70.6	85.6
100°	18.0	8.0	2.0	0.5	3.0	10.5	21.5	35.0	49.5	64.6	79.1
102.5°	15.5	6.5	1.5	0.5	2.5	9.0	19.0	31.5	44.5	59.0	73.1
105°	13.5	5.5	1.5	0.5	2.0	8.0	17.0	28.0	41.0	54.0	67.6
107.5°	11.5	4.5	1.0	0.5	1.5	6.5	15.0	25.5	37.0	49.5	62.0
110°	10.0	4.0	1.0	0.5	1.5	6.0	13.0	23.0	33.5	45.0	57.0

TEST NUMBER: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	8.5	3.0	1.0	0.5	1.0	5.0	11.5	20.5	30.5	41.0	52.5
115°	7.5	2.5	0.5	0.5	1.0	4.5	10.5	18.5	27.5	37.5	48.0
117.5°	6.0	2.0	0.5	0.5	0.5	3.5	9.0	16.5	25.0	34.5	44.0
120°	5.0	2.0	0.5	0.5	0.5	3.0	8.0	14.5	22.5	31.0	40.0
122.5°	4.5	1.5	0.5	0.5	0.5	2.5	7.0	13.0	20.0	28.0	36.5
125°	4.0	1.5	0.5	0.5	0.5	2.0	6.0	11.5	18.0	25.0	33.0
127.5°	3.0	1.5	0.5	0.5	0.5	1.5	5.5	10.0	16.0	22.5	29.5
130°	2.5	1.0	0.5	0.5	0.5	1.5	4.5	9.0	14.0	20.0	26.5
132.5°	2.0	1.0	0.5	0.5	0.5	1.0	3.5	7.0	12.0	17.5	23.5
135°	2.0	1.0	0.5	0.5	0.5	1.0	2.5	6.0	10.0	15.0	20.0
137.5°	2.0	0.5	0.5	0.5	0.5	1.0	2.0	4.5	8.0	12.0	16.5
140°	1.5	0.5	0.5	0.5	0.5	0.5	1.5	3.5	6.5	10.0	14.0
142.5°	1.5	0.5	0.5	0.5	0.5	0.5	1.5	2.5	5.0	8.0	11.0
145°	1.0	0.5	0.5	0.5	0.5	0.5	1.0	2.0	4.0	6.0	9.0
147.5°	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.5	3.0	5.0	7.0
150°	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.0	3.5	5.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	2.5	3.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.0	2.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	2.0
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	475.9	472.4	473.4	472.9	473.9	475.4	475.4	474.9	474.9	473.9	472.9
5°	474.9	471.4	472.9	472.4	473.4	474.9	474.9	474.4	474.4	472.9	472.4
7.5°	471.9	469.4	470.4	470.4	471.4	472.9	472.9	472.4	472.4	470.9	470.4
10°	468.9	465.9	467.4	467.4	468.4	470.4	470.4	469.9	469.9	468.4	467.9
12.5°	463.9	460.9	463.4	463.9	464.9	466.9	466.4	466.4	466.4	464.9	464.4
15°	457.9	455.9	458.4	458.9	460.4	462.9	462.9	462.9	462.9	461.4	460.9
17.5°	451.4	449.9	452.4	453.4	455.4	457.9	457.9	458.4	458.9	457.9	457.4
20°	443.9	442.9	445.4	447.4	450.4	452.9	453.9	454.4	455.4	454.4	453.9
22.5°	435.4	435.4	438.9	440.9	444.4	446.9	448.4	449.9	450.9	449.9	449.4
25°	425.8	427.3	430.8	434.3	438.4	440.9	442.4	444.4	445.4	444.9	444.4
27.5°	416.8	418.8	423.3	426.8	430.3	434.3	435.9	438.4	439.4	439.4	438.9
30°	406.3	409.3	414.3	418.3	422.8	426.8	428.8	431.3	432.8	431.8	432.3
32.5°	396.3	401.3	405.3	409.8	414.8	418.8	421.3	424.3	425.8	425.3	425.8
35°	385.3	390.3	395.8	400.3	406.3	410.3	413.8	416.3	418.3	417.8	417.8
37.5°	373.3	379.8	385.3	391.3	396.8	401.3	404.8	407.8	409.8	409.8	409.8
40°	361.8	368.8	374.3	381.3	388.3	392.3	396.3	399.3	401.3	401.8	402.3
42.5°	349.3	356.8	363.3	370.8	377.8	382.8	387.3	390.8	392.8	393.8	393.3
45°	337.8	344.8	352.3	360.8	367.3	372.3	377.8	381.8	383.8	384.3	384.8
47.5°	324.8	332.8	341.3	349.8	356.3	362.8	367.8	371.8	373.8	375.3	375.3
50°	312.3	320.8	330.3	339.3	346.3	352.8	357.8	362.3	364.8	365.8	366.3
52.5°	300.7	308.7	318.8	327.8	334.8	341.3	347.8	352.8	355.3	356.3	356.3
55°	286.7	296.7	307.7	316.3	323.8	331.3	337.8	342.8	345.3	346.8	347.8
57.5°	273.7	284.2	295.7	304.7	313.8	320.8	326.8	333.3	335.3	337.3	337.8
60°	261.2	271.7	282.7	292.7	301.7	309.2	316.3	321.8	325.3	326.3	327.3
62.5°	248.2	259.2	270.7	280.7	290.2	299.2	305.7	310.8	314.8	316.3	317.3
65°	235.7	247.2	258.7	269.2	279.2	288.2	294.7	299.7	303.7	306.2	306.7
67.5°	222.2	234.7	246.7	257.7	267.7	277.2	283.7	288.7	292.7	295.7	296.2
70°	209.7	222.7	234.7	246.7	256.7	266.2	273.2	278.2	282.7	284.7	285.7
72.5°	197.7	211.2	223.7	235.7	245.7	255.2	262.7	267.7	272.2	274.7	275.2
75°	186.1	199.7	213.2	224.7	235.2	244.7	252.2	257.7	261.7	264.2	265.2
77.5°	174.6	188.7	202.2	213.7	224.7	234.2	240.7	247.2	251.2	254.2	254.2
80°	163.1	177.6	191.7	203.2	214.2	222.7	230.2	236.7	240.7	243.7	243.7
82.5°	153.1	167.1	180.6	192.2	203.2	212.7	220.2	226.2	230.7	232.7	233.2
85°	141.6	157.1	169.6	182.1	192.7	201.7	209.2	215.7	219.7	221.7	222.7
87.5°	132.1	147.1	160.6	171.6	182.1	191.2	199.7	205.2	209.2	211.7	212.7
90°	123.1	137.6	151.1	162.1	173.1	181.6	189.7	195.2	199.7	201.7	202.7
92.5°	115.1	129.6	142.6	153.6	164.1	173.6	181.1	186.7	190.7	192.7	194.2
95°	107.6	121.6	134.1	146.1	156.1	164.6	172.6	178.1	182.6	184.1	185.6
97.5°	100.1	113.6	126.1	137.6	148.1	156.1	163.6	169.1	172.6	175.1	176.6
100°	93.6	106.6	118.6	129.6	139.6	147.1	155.1	160.1	163.6	165.6	167.6
102.5°	86.6	99.6	111.1	121.6	132.1	139.1	146.6	151.6	154.6	158.1	158.1
105°	80.6	92.6	104.1	114.1	123.1	131.6	138.1	143.1	146.6	149.1	149.1
107.5°	74.1	86.1	97.1	107.6	116.1	124.1	130.1	134.6	138.6	140.1	141.6
110°	69.1	79.6	90.6	100.6	108.6	116.1	122.1	127.1	130.6	132.1	133.1

TEST NUMBER: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	63.1	74.1	84.1	93.6	101.6	108.6	114.6	118.6	122.1	124.1	124.6
115°	58.0	68.6	77.6	86.6	95.1	101.1	106.6	110.6	114.1	115.6	116.6
117.5°	53.5	63.1	72.1	79.6	87.6	94.1	99.6	103.1	106.1	108.1	109.1
120°	49.0	58.0	66.1	73.6	81.1	87.1	92.1	95.6	99.1	100.6	100.6
122.5°	44.5	53.0	60.5	67.6	74.6	80.1	85.6	88.6	91.6	93.1	93.1
125°	40.5	48.5	55.5	62.0	68.6	73.6	78.1	81.6	84.6	85.6	85.6
127.5°	36.5	44.0	50.5	56.5	62.0	67.1	71.6	75.1	77.6	78.6	78.6
130°	33.0	39.5	45.5	51.5	57.0	61.0	65.6	68.6	70.1	71.6	72.1
132.5°	29.5	35.5	41.0	46.0	51.5	55.5	59.0	62.0	63.6	65.1	65.6
135°	26.0	31.5	36.5	41.5	46.0	50.0	53.0	55.5	57.5	58.5	59.0
137.5°	22.0	28.0	32.5	36.5	41.5	44.5	48.0	49.5	51.5	52.5	52.5
140°	18.5	23.0	28.0	32.0	36.0	39.0	42.0	44.5	46.0	46.5	46.5
142.5°	15.0	19.0	23.0	28.0	31.5	34.0	37.0	39.0	40.0	40.5	41.0
145°	12.0	15.0	18.5	23.0	27.0	30.0	31.5	33.5	34.5	35.0	35.5
147.5°	9.0	12.0	15.0	18.0	22.0	25.0	26.5	28.5	29.5	30.0	30.0
150°	7.0	9.0	11.0	14.0	17.0	20.5	22.5	24.0	24.5	25.0	25.0
152.5°	5.0	7.0	8.5	10.5	12.5	15.5	18.5	19.5	20.0	20.5	20.5
155°	3.5	5.0	6.0	7.5	9.0	11.5	14.0	15.5	16.0	16.5	16.5
157.5°	2.5	3.5	4.0	5.5	6.5	7.5	9.5	12.0	12.5	12.5	12.5
160°	1.5	2.0	2.5	3.5	4.0	5.0	6.0	7.5	9.0	9.0	9.0
162.5°	1.0	1.5	1.5	2.0	2.0	3.0	3.5	4.0	5.5	6.0	6.0
165°	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.5	3.0	3.0
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: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	473.4	474.4	473.9	473.9	473.9	474.9	473.9	469.4	470.4	471.4	472.4
5°	472.9	473.4	473.4	472.9	472.9	473.9	472.9	468.4	469.4	470.4	470.9
7.5°	470.9	471.4	471.4	471.4	470.9	471.9	470.4	466.4	466.4	467.4	467.9
10°	468.4	469.4	468.9	468.4	468.4	468.4	467.4	462.9	462.9	463.4	463.9
12.5°	465.4	465.4	465.4	464.9	464.4	464.4	463.4	458.9	458.4	459.4	458.9
15°	461.4	462.4	461.4	460.9	459.9	459.9	458.4	453.9	452.9	453.4	452.9
17.5°	457.9	458.4	457.4	456.4	455.4	454.9	453.4	448.4	446.9	447.4	446.4
20°	454.4	454.4	453.4	452.4	450.9	449.4	447.4	442.4	439.9	439.9	437.9
22.5°	449.9	449.9	448.9	447.4	445.9	443.9	441.9	436.9	432.8	431.8	430.3
25°	444.9	444.4	443.9	442.4	439.4	437.4	435.4	429.8	425.3	423.3	420.8
27.5°	438.9	438.9	437.4	435.9	432.8	430.3	427.8	422.8	416.8	414.3	410.8
30°	432.3	432.3	430.8	428.8	425.8	422.8	419.8	413.8	407.8	404.3	400.3
32.5°	425.8	425.3	423.8	421.8	418.8	414.3	411.8	405.8	398.8	394.8	389.3
35°	417.8	417.3	415.8	413.3	409.3	405.8	401.8	396.3	388.3	383.3	377.3
37.5°	409.8	409.3	408.3	404.8	400.8	396.8	391.8	386.3	378.8	372.3	366.3
40°	401.8	401.3	399.3	396.8	391.8	386.8	381.8	376.3	368.3	360.8	354.3
42.5°	393.3	392.8	390.3	387.3	381.8	376.8	370.8	364.8	356.8	347.8	341.3
45°	384.8	383.8	381.3	377.8	371.8	366.3	360.3	353.3	345.3	336.8	328.3
47.5°	375.8	374.3	371.8	366.8	361.8	355.8	348.8	341.3	333.3	323.8	314.8
50°	365.8	364.8	361.8	357.3	351.3	345.3	337.3	329.8	320.3	311.3	300.2
52.5°	356.3	354.3	351.8	346.8	340.8	334.3	325.8	316.8	307.2	298.7	287.2
55°	346.3	345.3	341.8	337.8	330.3	322.8	314.8	305.2	294.7	284.7	273.7
57.5°	336.8	334.8	331.8	326.3	319.8	312.3	303.7	293.7	282.2	271.7	259.7
60°	327.3	324.3	320.8	315.8	308.7	300.7	291.7	281.2	269.7	258.2	245.7
62.5°	316.8	314.3	310.2	305.2	298.2	289.7	280.2	269.2	258.2	246.2	232.7
65°	306.2	303.7	299.7	294.7	287.7	278.2	268.2	257.2	244.7	233.2	218.7
67.5°	295.7	293.2	288.7	283.2	276.2	267.2	256.7	245.2	232.7	220.2	205.2
70°	285.2	282.2	278.2	272.2	265.2	255.7	245.2	233.2	220.7	207.2	192.2
72.5°	274.7	272.2	267.2	261.7	254.2	244.7	234.2	222.2	209.2	195.2	180.1
75°	264.2	261.2	257.7	251.2	243.2	234.2	223.2	211.2	197.2	183.6	168.1
77.5°	253.7	251.2	246.7	240.2	232.7	223.2	212.2	200.2	186.1	172.1	155.6
80°	243.2	240.2	236.7	230.7	222.2	212.7	201.2	189.2	175.1	160.6	144.1
82.5°	232.7	229.7	225.7	219.7	211.7	202.2	191.2	178.1	164.1	149.1	133.6
85°	222.2	219.7	215.2	209.2	200.7	191.2	180.1	168.6	153.6	138.6	123.1
87.5°	211.7	209.2	204.7	198.7	190.7	181.1	170.1	158.1	143.6	129.6	112.6
90°	201.7	199.7	195.2	189.2	181.1	171.6	161.6	148.6	134.6	120.6	104.6
92.5°	192.7	190.7	186.7	180.6	173.6	163.1	153.1	140.6	126.6	112.1	96.6
95°	184.6	182.1	178.1	172.6	164.1	155.1	145.1	132.6	119.1	104.6	89.6
97.5°	175.6	173.1	169.1	163.1	156.1	146.6	136.6	124.6	111.1	97.6	82.6
100°	166.6	164.1	159.6	154.6	147.6	138.1	128.6	116.6	104.1	91.1	76.6
102.5°	157.6	155.1	151.1	146.1	139.1	130.6	121.1	109.6	97.1	84.1	70.6
105°	149.1	146.6	142.6	137.6	131.1	122.6	112.6	102.6	90.6	78.1	65.1
107.5°	140.6	138.1	134.6	129.6	123.1	115.1	105.6	95.1	84.1	72.1	59.5
110°	132.1	130.1	126.1	121.6	115.1	107.1	98.6	88.6	77.6	66.6	54.5

TEST NUMBER: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	124.1	122.1	118.1	113.1	107.6	100.1	91.6	82.1	71.6	61.0	49.5
115°	116.1	113.6	110.1	105.6	100.1	93.1	85.1	76.6	66.1	56.0	45.5
117.5°	108.1	106.1	102.6	98.1	93.1	86.1	78.6	70.6	60.5	51.0	41.5
120°	100.1	98.6	95.1	91.1	86.1	79.6	72.6	64.6	55.5	46.5	37.5
122.5°	92.6	91.1	87.6	84.1	79.1	73.1	66.6	59.0	51.0	42.5	34.5
125°	85.6	83.6	80.6	77.1	72.6	67.1	60.5	53.5	46.0	38.5	31.0
127.5°	78.1	76.6	74.6	70.6	66.1	61.0	55.0	49.0	42.0	35.0	28.0
130°	72.1	70.1	67.6	64.6	60.5	55.5	50.0	44.0	38.0	31.5	24.5
132.5°	65.1	63.1	61.0	58.0	54.5	50.0	45.0	39.5	34.0	28.0	22.0
135°	58.5	57.0	55.0	52.0	48.5	45.0	40.0	35.0	30.0	24.5	19.5
137.5°	52.5	51.0	49.0	47.0	43.5	40.0	35.5	31.0	26.5	21.5	17.0
140°	46.5	45.5	43.5	41.5	38.5	35.0	31.0	27.0	23.0	18.5	14.5
142.5°	40.5	39.5	38.0	36.0	33.5	30.5	27.0	23.5	19.5	16.0	12.5
145°	35.0	34.5	33.0	31.0	29.0	26.0	23.0	20.0	16.5	13.5	10.0
147.5°	29.5	29.0	28.0	26.5	24.5	22.0	19.5	16.5	14.0	11.0	8.0
150°	24.5	24.0	23.5	21.5	20.5	18.0	16.0	13.5	11.5	8.5	6.5
152.5°	20.0	20.0	19.0	17.5	16.5	14.5	13.0	11.0	9.0	7.0	5.0
155°	16.0	15.5	15.0	14.0	13.0	11.5	10.0	8.5	7.0	5.0	3.5
157.5°	12.5	12.0	11.5	10.5	9.5	9.0	7.5	6.0	4.5	3.5	2.5
160°	9.0	8.5	8.0	7.5	7.0	6.0	5.0	4.0	3.0	2.0	1.5
162.5°	6.0	5.5	5.5	5.0	4.5	3.5	3.0	2.5	2.0	1.5	1.0
165°	3.0	3.0	2.5	2.5	2.0	1.5	1.5	1.5	1.0	1.0	0.5
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: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	471.9	471.9	473.9	473.4	471.9	474.9	478.4
5°	470.4	470.4	471.9	471.9	470.4	473.4	476.4
7.5°	467.9	467.4	468.9	468.9	466.9	469.4	472.9
10°	463.4	462.9	464.4	464.4	462.4	464.9	467.9
12.5°	458.4	457.4	458.9	458.4	456.4	458.9	461.9
15°	451.9	451.4	452.4	451.4	449.4	451.9	454.9
17.5°	445.4	443.9	444.4	444.4	440.9	443.4	445.9
20°	436.9	434.8	435.4	434.8	432.3	433.8	436.9
22.5°	428.3	425.3	425.3	424.8	421.8	423.8	426.3
25°	417.8	414.3	414.3	413.8	410.3	411.8	414.3
27.5°	407.3	403.8	402.3	401.8	398.3	398.3	401.8
30°	396.3	391.3	390.3	388.8	385.3	385.3	388.3
32.5°	385.8	378.8	376.8	374.8	371.3	370.8	374.3
35°	371.8	366.3	362.8	360.8	356.8	355.8	358.8
37.5°	360.3	353.3	348.3	345.8	341.8	340.3	344.3
40°	347.8	340.3	333.8	332.3	326.3	324.3	327.8
42.5°	333.8	325.8	319.3	316.3	311.8	309.7	310.2
45°	319.8	311.3	304.2	300.2	295.7	292.2	294.2
47.5°	305.2	297.7	289.2	283.2	277.7	275.2	276.2
50°	290.7	281.7	273.7	267.2	260.7	257.7	259.7
52.5°	276.2	266.7	257.7	250.7	243.2	240.2	240.7
55°	262.2	252.2	241.7	234.2	227.2	222.7	221.7
57.5°	248.2	237.2	226.2	217.7	208.7	204.7	203.2
60°	233.2	221.7	210.2	200.2	190.7	186.1	184.1
62.5°	219.2	206.7	193.7	183.1	173.6	167.6	166.1
65°	205.7	191.2	178.1	166.1	155.6	149.1	147.1
67.5°	191.2	176.1	162.1	149.1	139.1	130.6	129.6
70°	177.6	161.6	146.1	132.6	121.6	113.1	109.1
72.5°	164.1	147.6	131.6	117.1	103.1	95.1	92.1
75°	151.1	134.1	117.1	102.1	86.6	77.1	74.1
77.5°	139.1	121.6	103.6	87.1	72.6	60.5	56.5
80°	127.6	109.6	90.6	73.6	58.0	45.0	40.5
82.5°	115.6	98.6	79.1	61.0	45.0	31.5	26.0
85°	105.1	88.1	68.6	50.5	34.5	20.0	14.0
87.5°	96.6	78.1	60.5	42.5	26.0	11.5	4.0
90°	88.1	70.1	52.5	35.0	19.5	6.5	0.5
92.5°	80.6	63.6	46.0	30.0	15.0	4.5	0.5
95°	73.6	57.0	40.5	25.0	12.0	3.0	0.5
97.5°	67.1	51.5	36.0	21.5	10.0	2.5	0.5
100°	61.5	46.5	32.0	19.0	8.5	2.0	0.5
102.5°	56.0	42.0	28.5	16.5	7.5	1.5	0.5
105°	51.5	38.0	25.5	15.0	6.5	1.5	0.5
107.5°	47.0	34.5	23.0	13.0	5.5	1.0	0.5
110°	42.5	31.5	20.5	11.5	5.0	1.0	0.5

TEST NUMBER: P1213330

CATALOG NUMBER: 2SNLED-LD5-23SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	39.0	28.5	18.5	10.5	4.0	1.0	0.5
115°	35.5	25.5	16.5	9.0	3.5	0.5	0.5
117.5°	32.0	23.0	14.5	8.0	3.0	0.5	0.5
120°	29.0	20.5	13.0	7.0	2.5	0.5	0.5
122.5°	26.0	18.5	11.5	6.0	2.0	0.5	0.5
125°	23.5	16.5	10.0	5.0	1.5	0.5	0.5
127.5°	21.0	14.5	9.0	4.5	1.5	0.5	0.5
130°	18.5	13.0	7.5	3.5	1.0	0.5	0.5
132.5°	16.5	11.0	6.5	3.0	1.0	0.5	0.5
135°	14.5	9.5	5.5	2.0	1.0	0.5	0.5
137.5°	12.5	8.0	4.5	1.5	0.5	0.5	0.5
140°	10.5	7.0	3.5	1.5	0.5	0.5	0.5
142.5°	9.0	5.5	2.5	1.0	0.5	0.5	0.5
145°	7.0	4.5	2.0	1.0	0.5	0.5	0.5
147.5°	5.5	3.5	1.5	1.0	0.5	0.5	0.5
150°	4.0	2.5	1.5	0.5	0.5	0.5	0.5
152.5°	3.0	2.0	1.0	0.5	0.5	0.5	0.5
155°	2.0	1.5	1.0	0.5	0.5	0.5	0.5
157.5°	1.5	1.0	0.5	0.5	0.5	0.5	0.5
160°	1.0	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)