

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: P1213314

Luminaire Tested: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213314
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-LD5-16SL-LW-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

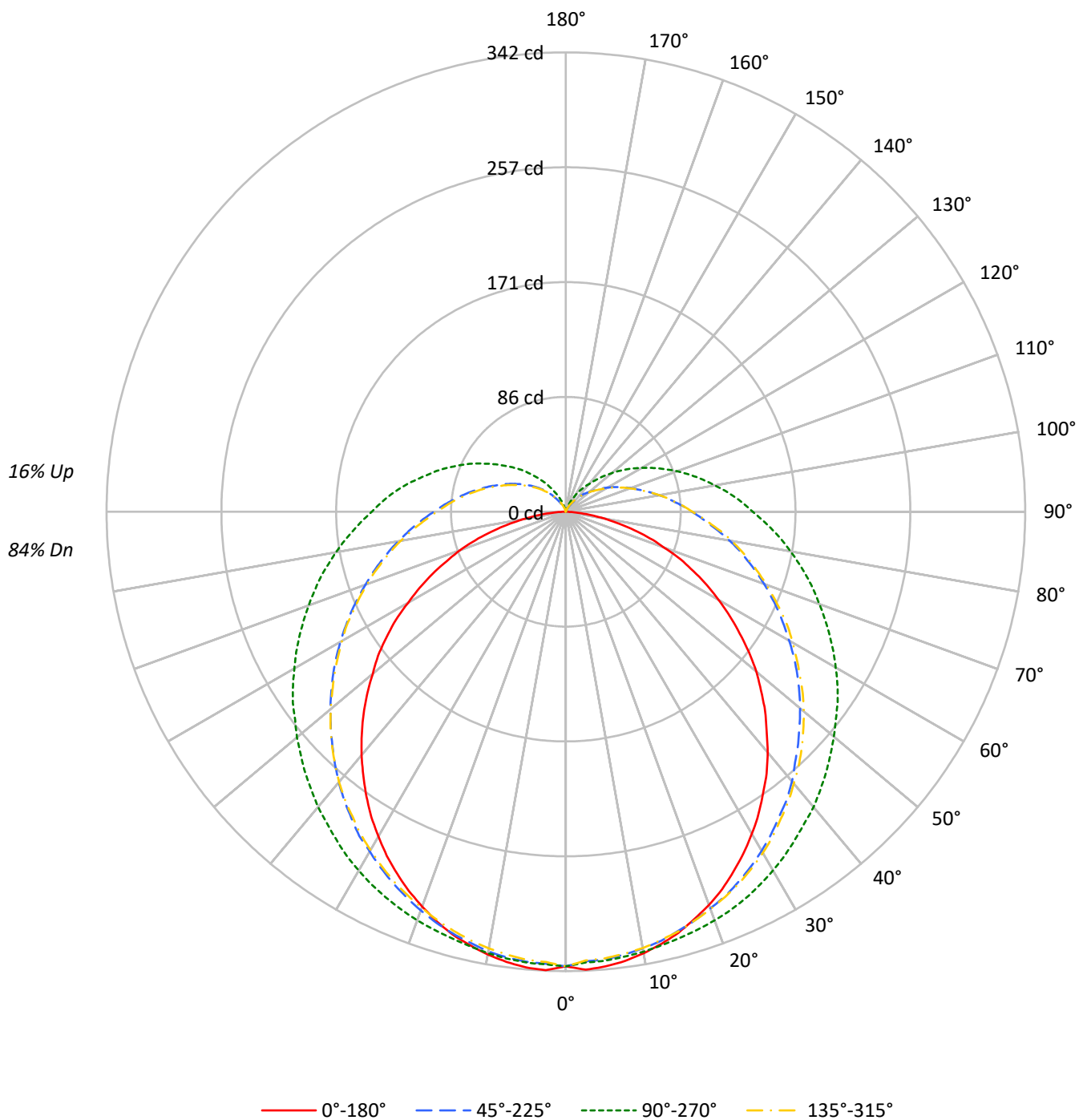
Lumens per Lamp: N/A
Luminaire Lumens: 1470.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 14
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



TEST NUMBER: P1213314

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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°	5469	5469	5469	5469
5°	5483	5270	5494	5292
10°	5417	5120	5435	5136
15°	5339	4993	5363	4997
20°	5240	4898	5259	4898
25°	5120	4815	5152	4809
30°	4989	4730	5027	4730
35°	4837	4651	4892	4656
40°	4687	4605	4743	4605
45°	4515	4555	4584	4562
50°	4334	4525	4392	4539
55°	4090	4531	4219	4551
60°	3830	4544	3955	4572
65°	3538	4589	3696	4636
70°	3138	4674	3384	4741
75°	2674	4827	2927	4921
80°	1986	5054	2254	5170
85°	1082	5415	1352	5566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 6222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	2.2
10°-20°	92.1	6.3
20°-30°	141.2	9.6
30°-40°	174.2	11.9
40°-50°	189.0	12.9
50°-60°	186.3	12.7
60°-70°	168.5	11.5
70°-80°	140.3	9.5
80°-90°	108.7	7.4
90°-100°	82.4	5.6
100°-110°	61.0	4.2
110°-120°	42.4	2.9
120°-130°	27.1	1.8
130°-140°	15.2	1.0
140°-150°	6.9	0.5
150°-160°	2.2	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	265.4	18.1
0°-40°	439.7	29.9
0°-60°	815.0	55.4
0°-90°	1232.5	83.8
90°-120°	185.9	12.6
90°-150°	235.1	16.0
90°-180°	238.0	16.2
0°-180°	1470.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	338	338	338	338	338	
5°	340	336	340	337	340	32
15°	324	328	326	329	324	91
25°	296	317	297	317	296	136
35°	256	298	259	298	256	160
45°	210	274	213	274	210	162
55°	158	247	163	248	158	142
65°	105	217	110	219	105	104
75°	53	186	58	189	53	56
85°	10	154	12	159	10	12
90°	0	139	1	144	0	1
95°	0	126	0	132	0	0
105°	0	100	0	106	0	0
115°	0	76	0	83	0	0
125°	0	55	0	61	0	0
135°	0	36	0	42	0	0
145°	0	21	0	25	0	0
155°	0	9	0	12	0	0
165°	0	1	0	2	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°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	341.2	341.2	340.8	340.1	340.5	341.6	340.8	339.1	338.0	335.1	335.9
5°	339.8	339.8	339.4	338.7	339.1	340.5	339.8	338.4	336.9	334.4	335.5
7.5°	337.3	337.3	336.9	336.2	336.9	338.4	337.6	336.2	335.1	332.6	333.7
10°	333.7	334.1	333.7	332.6	334.1	335.5	335.1	333.4	332.3	330.1	331.2
12.5°	329.4	329.8	329.4	329.1	329.8	331.9	331.2	329.8	329.1	327.3	328.4
15°	324.4	324.8	324.1	324.1	324.8	326.9	326.9	325.5	324.8	323.0	325.1
17.5°	318.0	318.4	318.0	318.0	318.7	320.9	321.2	320.5	319.8	319.1	321.2
20°	311.6	311.2	311.2	310.9	312.3	315.5	315.2	315.2	314.4	314.4	316.9
22.5°	304.1	304.1	303.7	303.7	305.5	308.4	308.4	309.1	308.4	309.8	311.9
25°	295.5	295.9	295.5	296.2	297.7	300.9	301.2	302.3	302.7	304.1	306.6
27.5°	286.6	287.0	286.6	287.3	289.8	292.3	294.1	295.5	295.9	298.0	301.2
30°	277.0	277.0	277.3	278.0	280.9	284.8	286.2	288.0	288.0	291.6	294.8
32.5°	267.0	267.0	267.0	268.4	271.6	276.2	278.0	280.2	280.9	284.5	288.0
35°	255.9	256.3	256.3	257.3	261.6	266.3	268.8	271.3	272.7	277.0	280.5
37.5°	245.6	246.3	245.2	246.6	252.7	256.6	259.5	262.0	264.5	270.2	273.0
40°	233.8	234.5	234.1	237.0	242.0	247.0	250.2	252.7	256.3	262.0	265.2
42.5°	221.3	222.0	222.7	225.9	231.3	236.3	240.2	243.4	247.7	252.7	258.0
45°	209.9	209.9	210.9	214.9	220.6	225.9	230.6	234.1	239.1	244.5	249.8
47.5°	197.0	197.4	198.8	203.4	209.5	215.9	220.2	224.9	230.2	235.9	242.0
50°	185.2	185.2	187.4	192.4	198.1	205.2	209.9	215.2	220.9	227.7	233.8
52.5°	171.7	172.4	175.6	180.2	187.7	194.2	199.5	205.2	212.0	219.1	225.9
55°	158.1	159.5	162.0	168.5	176.3	182.4	188.8	195.9	202.4	210.2	218.1
57.5°	144.9	146.0	149.9	156.3	164.5	172.0	178.8	185.6	193.4	201.3	209.5
60°	131.3	132.8	137.4	143.8	152.8	160.6	168.5	175.6	183.8	192.0	200.6
62.5°	118.5	119.6	124.9	132.4	141.3	149.9	157.8	166.3	175.2	183.1	191.7
65°	104.9	106.7	112.8	119.6	129.9	138.5	147.4	156.7	166.0	174.5	182.7
67.5°	92.4	93.5	99.9	107.8	118.1	127.8	137.1	147.0	156.7	165.6	173.8
70°	77.8	81.4	87.8	96.0	107.1	117.1	127.1	137.4	147.8	157.0	164.9
72.5°	65.7	68.5	75.7	84.6	95.3	107.1	117.4	128.5	138.8	148.5	156.7
75°	52.8	55.7	63.9	73.9	84.9	97.4	108.1	119.6	130.3	139.9	148.5
77.5°	40.3	43.9	52.8	63.2	75.3	88.2	99.2	110.6	121.7	132.1	140.6
80°	28.9	32.8	42.5	54.3	66.0	78.9	91.0	102.4	113.5	123.8	132.8
82.5°	18.6	22.8	33.2	45.0	57.5	70.3	82.8	94.2	105.3	115.6	124.9
85°	10.0	14.6	25.3	37.1	49.6	62.5	75.0	87.1	97.8	107.4	117.4
87.5°	2.9	8.6	18.9	30.7	43.5	55.3	67.5	79.6	90.3	100.6	109.6
90°	0.4	5.0	14.3	25.3	37.8	49.3	61.4	72.8	83.5	93.9	102.8
92.5°	0.4	3.2	11.1	21.1	32.5	44.3	56.4	67.5	77.4	87.8	96.7
95°	0.4	2.5	8.9	17.8	28.6	39.6	51.0	61.7	72.1	81.7	90.7
97.5°	0.4	1.8	7.1	15.3	25.0	35.3	46.4	57.1	67.1	76.4	84.6
100°	0.4	1.4	5.7	13.2	21.8	31.8	41.8	52.1	61.7	70.7	79.2
102.5°	0.4	1.1	5.0	11.1	19.3	28.2	37.8	47.5	56.7	65.3	73.9
105°	0.4	1.1	4.3	9.6	17.1	25.3	34.3	43.5	52.1	60.3	68.2
107.5°	0.4	0.7	3.6	8.2	15.0	22.8	31.1	40.0	47.8	55.7	63.2
110°	0.4	0.7	2.9	7.5	13.2	20.3	28.2	36.4	43.9	51.4	58.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.7	2.5	6.4	11.4	18.2	25.3	32.8	40.0	47.5	53.9
115°	0.4	0.7	2.1	5.7	10.7	15.7	22.8	29.6	36.8	43.5	49.6
117.5°	0.4	0.7	1.8	4.6	9.3	14.3	20.0	26.8	33.2	39.6	45.3
120°	0.4	0.7	1.4	4.3	8.2	12.8	17.8	23.9	30.0	36.0	42.1
122.5°	0.4	0.4	1.4	3.6	7.1	11.4	16.4	21.1	26.8	32.5	37.8
125°	0.4	0.4	1.4	3.2	6.1	10.4	14.6	18.9	23.9	28.9	33.5
127.5°	0.4	0.4	1.1	2.5	5.4	8.9	12.8	17.5	21.1	25.7	30.3
130°	0.4	0.4	1.1	2.1	4.6	7.5	11.4	15.3	19.6	22.8	26.8
132.5°	0.4	0.4	1.1	1.8	3.6	6.1	9.6	13.2	17.1	20.7	23.9
135°	0.4	0.4	0.7	1.4	2.9	5.0	7.9	11.1	15.0	18.6	21.8
137.5°	0.4	0.4	0.7	1.4	2.1	4.3	6.1	8.9	12.5	15.7	18.9
140°	0.4	0.4	0.7	1.1	1.8	3.2	5.0	7.1	10.0	12.8	16.4
142.5°	0.4	0.4	0.4	1.1	1.4	2.5	3.9	5.7	7.9	10.4	13.2
145°	0.4	0.4	0.4	1.1	1.4	1.8	3.2	4.6	6.1	7.9	10.4
147.5°	0.4	0.4	0.4	0.7	1.1	1.4	2.5	3.6	4.6	6.1	7.5
150°	0.4	0.4	0.4	0.7	1.1	1.4	1.8	2.5	3.6	5.0	6.1
152.5°	0.4	0.4	0.4	0.7	0.7	1.1	1.4	1.8	2.5	3.6	4.3
155°	0.4	0.4	0.4	0.4	0.7	1.1	1.4	1.4	1.8	2.5	3.2
157.5°	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.1	1.4	1.4	2.1
160°	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.1	1.1	1.1
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	1.1	1.1
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
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°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	335.9	336.2	337.3	337.3	336.6	336.6	336.2	335.9	336.2	336.9	336.9
5°	335.1	335.5	336.6	336.9	336.2	335.9	335.9	335.5	335.9	336.6	336.6
7.5°	333.7	334.1	335.1	335.5	334.8	334.8	334.4	334.1	334.8	335.1	335.1
10°	331.6	331.9	333.4	333.7	333.4	333.0	333.0	332.6	333.0	333.7	333.7
12.5°	328.7	329.4	331.2	331.2	331.2	330.9	330.9	330.5	330.9	331.6	331.2
15°	325.5	326.9	328.4	329.1	329.1	329.1	328.7	328.4	329.1	329.4	329.1
17.5°	321.9	323.7	325.9	326.6	326.6	326.9	326.6	326.2	326.9	326.9	326.6
20°	318.4	320.1	322.3	323.0	323.7	324.1	324.1	323.7	324.1	324.4	324.1
22.5°	313.7	315.9	318.4	319.4	320.1	320.9	320.9	320.9	321.2	321.6	320.9
25°	308.7	311.2	314.1	315.2	316.6	316.9	317.3	317.3	317.7	318.0	316.9
27.5°	303.4	306.2	309.1	310.9	311.9	312.7	312.7	313.0	313.4	313.7	312.7
30°	296.9	301.2	303.7	305.2	306.6	307.7	308.0	308.4	308.7	309.1	308.0
32.5°	291.2	294.8	298.0	299.8	301.6	303.0	303.4	303.4	304.1	304.1	303.0
35°	284.5	288.7	292.0	293.7	295.9	296.9	297.7	297.7	298.4	298.4	297.3
37.5°	277.7	282.0	285.5	287.7	290.2	291.6	292.0	292.0	292.7	292.7	291.2
40°	270.5	275.2	279.1	281.6	283.7	285.5	285.9	287.0	287.0	286.6	285.2
42.5°	263.4	267.7	272.0	274.8	277.7	279.5	280.2	280.5	280.5	280.2	279.1
45°	255.5	260.5	264.5	268.0	270.9	272.7	273.8	274.1	274.1	273.4	272.3
47.5°	248.1	253.0	257.0	260.9	263.8	265.9	267.0	267.3	267.0	266.6	265.5
50°	240.2	245.9	249.8	253.8	256.6	258.4	260.2	260.5	260.2	259.8	257.7
52.5°	232.0	238.1	242.3	246.3	249.5	251.6	253.0	253.4	253.4	252.7	251.3
55°	223.8	229.1	234.5	238.8	242.3	244.5	246.3	247.0	246.3	245.6	243.8
57.5°	216.3	221.3	226.6	231.3	234.8	237.7	239.1	239.8	239.1	238.1	236.3
60°	207.4	212.7	218.8	223.1	227.0	229.9	230.6	232.0	231.3	230.2	228.4
62.5°	198.8	205.2	210.6	215.9	219.1	222.4	223.8	224.5	223.8	222.7	220.9
65°	189.9	197.0	202.4	207.7	211.3	214.5	216.3	216.6	215.9	214.9	213.1
67.5°	181.7	188.4	194.2	199.9	203.1	206.3	208.1	208.8	208.1	206.7	204.9
70°	173.5	180.2	187.0	191.3	195.2	198.8	199.9	200.9	200.2	198.8	196.7
72.5°	165.2	172.4	179.2	183.5	187.7	190.9	192.4	193.4	192.7	191.3	188.8
75°	156.7	164.2	171.0	175.6	179.9	183.1	184.5	185.6	184.9	183.5	180.6
77.5°	148.8	156.3	162.8	167.7	172.0	174.9	177.4	177.7	177.0	175.6	172.7
80°	140.6	148.1	154.9	159.9	164.2	167.0	168.8	169.9	169.2	167.7	164.9
82.5°	133.5	140.3	147.0	152.0	156.3	159.9	161.3	162.4	162.0	159.9	157.8
85°	125.6	133.5	138.8	144.2	148.5	152.0	153.1	154.5	154.2	152.4	149.5
87.5°	117.8	125.6	132.1	137.4	141.3	144.2	146.0	146.7	146.3	144.5	141.3
90°	111.4	118.5	124.9	130.6	133.8	137.1	138.8	139.2	139.2	137.1	134.6
92.5°	105.3	112.1	118.5	123.8	127.8	130.6	132.1	132.8	132.4	130.6	127.8
95°	98.5	106.0	112.1	117.4	121.3	124.2	125.6	126.3	126.0	124.2	121.3
97.5°	92.8	99.6	105.6	110.6	114.6	117.4	118.9	119.6	119.6	117.8	114.9
100°	87.1	93.9	99.6	104.6	108.1	111.0	112.4	112.8	112.4	111.0	108.1
102.5°	81.4	87.8	93.5	98.2	102.1	104.6	106.0	106.4	106.4	104.6	101.7
105°	75.7	82.1	87.4	92.4	95.7	98.2	99.2	100.3	99.9	98.5	95.7
107.5°	70.3	76.7	81.7	86.4	89.6	92.1	93.2	94.2	93.9	92.4	89.6
110°	65.3	71.4	76.0	80.7	83.5	86.0	87.8	88.2	87.4	86.0	83.5

TEST NUMBER: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	60.7	66.0	70.7	75.0	78.2	79.9	81.4	82.1	81.4	79.9	78.2
115°	55.7	61.0	65.7	69.6	72.5	74.6	75.7	76.4	75.7	74.2	72.5
117.5°	51.0	56.0	60.7	64.6	67.1	68.9	70.0	70.7	70.0	68.9	67.1
120°	47.1	51.4	55.7	59.2	62.1	63.5	64.6	65.3	65.0	63.5	61.7
122.5°	42.5	47.1	51.0	54.6	57.1	58.5	59.2	60.0	59.6	58.5	56.7
125°	38.5	42.5	46.4	49.6	52.1	53.5	54.3	55.0	54.6	53.5	51.4
127.5°	34.3	38.5	41.8	45.0	46.8	48.9	49.3	50.0	49.6	48.5	46.8
130°	31.1	34.3	37.5	40.3	42.5	43.9	44.6	45.0	44.3	43.5	41.8
132.5°	27.1	30.7	33.5	36.0	37.5	38.9	39.6	40.0	40.0	38.9	37.5
135°	24.3	26.8	29.3	31.8	33.2	34.6	35.3	35.7	35.3	34.6	33.2
137.5°	21.8	23.9	25.7	27.8	29.6	30.3	31.1	31.1	30.7	30.3	29.3
140°	18.9	21.4	23.2	24.6	26.1	26.4	27.1	27.1	26.8	26.4	25.7
142.5°	16.1	18.2	20.0	21.8	22.8	23.6	23.9	24.3	23.9	23.6	22.5
145°	12.8	15.3	17.1	18.2	19.6	20.0	20.3	20.7	20.3	20.0	18.9
147.5°	10.0	12.1	13.9	15.3	16.4	16.8	17.1	17.5	17.1	16.4	16.1
150°	7.1	8.9	11.1	12.5	13.2	13.9	13.9	13.9	14.3	13.6	12.8
152.5°	5.7	6.4	7.9	9.3	10.4	10.7	11.1	11.1	10.7	10.7	10.0
155°	3.9	4.6	5.7	6.8	7.9	8.2	8.6	8.6	8.2	8.2	7.9
157.5°	2.5	3.2	3.9	4.6	5.7	6.1	6.4	6.4	6.4	6.1	5.7
160°	1.4	1.8	2.1	2.9	3.6	3.9	4.3	4.3	4.3	4.3	3.9
162.5°	1.1	1.1	1.1	1.4	1.8	2.1	2.5	2.5	2.5	2.5	2.1
165°	0.7	0.7	0.7	0.7	0.7	1.1	1.4	1.4	1.4	1.4	1.4
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: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	336.6	336.6	336.9	336.2	334.1	334.4	334.4	335.9	336.6	336.9	338.7
5°	335.9	335.9	336.6	335.5	333.7	333.7	333.7	335.1	335.5	336.2	337.6
7.5°	334.8	334.8	335.1	334.1	331.9	331.9	331.6	333.0	333.7	334.1	335.5
10°	333.0	333.0	333.4	332.3	329.8	329.8	329.4	330.5	330.9	331.6	332.6
12.5°	330.5	330.5	330.5	329.4	326.9	326.6	326.2	327.3	327.3	327.6	328.7
15°	328.4	327.6	327.6	326.6	324.1	323.4	322.6	323.0	323.7	323.4	324.1
17.5°	325.9	325.1	324.4	323.4	320.1	319.1	318.4	318.7	318.4	318.0	318.7
20°	323.0	321.9	321.6	319.8	316.6	314.8	313.4	312.7	313.0	311.9	312.3
22.5°	319.8	318.4	317.7	315.5	312.3	310.2	308.4	306.9	306.6	305.2	305.5
25°	315.9	314.1	313.0	311.2	307.7	305.2	303.0	300.9	299.8	298.0	297.7
27.5°	311.2	309.4	308.0	306.2	302.7	299.4	296.9	294.1	292.7	290.5	289.5
30°	306.6	304.4	302.3	300.9	296.9	293.4	289.5	287.0	284.8	282.3	280.5
32.5°	300.9	298.7	296.6	294.5	290.9	286.6	283.4	279.5	277.0	274.1	272.0
35°	295.2	292.3	290.2	287.3	284.1	279.1	275.2	271.3	268.0	264.8	262.3
37.5°	288.7	286.6	283.4	280.9	277.0	272.0	267.7	262.7	259.8	255.5	252.3
40°	282.7	280.2	277.0	273.8	269.8	264.1	259.5	253.8	250.6	245.6	242.3
42.5°	276.6	273.0	269.8	266.3	262.0	256.6	250.9	245.2	240.9	236.3	231.6
45°	269.8	265.9	262.0	258.0	253.8	248.4	242.3	236.3	230.9	226.6	220.9
47.5°	262.7	258.8	254.1	249.8	245.2	239.8	233.4	227.0	221.3	216.3	210.2
50°	255.5	251.6	246.6	242.0	236.6	231.3	224.5	217.0	210.9	204.5	199.2
52.5°	248.1	244.1	239.5	233.4	227.7	222.4	215.2	207.4	200.6	195.2	188.4
55°	240.6	236.6	231.3	225.2	219.5	212.7	205.9	198.1	190.6	184.2	177.4
57.5°	232.7	229.1	223.1	218.1	210.9	203.8	196.7	189.2	181.0	173.5	165.6
60°	224.9	220.9	215.2	209.1	202.0	194.9	187.4	179.2	170.6	162.4	155.3
62.5°	217.7	212.7	207.4	200.9	193.4	186.7	178.1	169.2	160.6	152.0	143.5
65°	209.5	204.2	199.2	192.7	184.9	177.0	168.5	159.5	150.3	141.0	132.4
67.5°	201.3	195.9	190.6	184.2	176.0	167.7	158.8	149.9	139.6	130.6	120.6
70°	193.1	188.8	182.0	175.2	167.7	158.8	149.9	140.3	129.6	119.9	109.6
72.5°	184.9	180.6	173.8	166.7	159.5	150.3	140.6	131.0	121.0	109.9	98.9
75°	177.0	171.7	165.6	158.8	151.3	141.7	132.1	122.1	110.3	99.9	88.5
77.5°	169.5	164.5	158.5	151.0	142.8	133.5	123.5	113.1	101.4	90.3	77.8
80°	161.3	156.3	150.3	142.8	134.6	125.6	114.9	104.2	92.8	80.7	67.8
82.5°	153.5	148.8	142.1	135.3	126.3	117.4	106.7	96.0	83.9	72.1	59.6
85°	145.3	140.6	134.2	127.1	118.5	108.9	98.9	88.2	76.0	63.9	51.4
87.5°	138.1	132.8	126.3	119.2	110.6	101.4	91.7	80.3	68.5	56.7	43.9
90°	130.6	125.6	119.2	112.1	103.5	94.2	84.2	73.5	62.1	50.0	37.8
92.5°	124.2	118.9	112.8	105.6	97.1	88.2	78.2	67.5	56.4	44.6	32.8
95°	117.8	112.4	106.7	99.6	91.0	82.1	72.1	61.7	51.0	39.6	28.6
97.5°	110.6	106.0	100.3	93.5	84.9	76.4	66.7	56.7	46.4	35.3	25.0
100°	104.9	99.6	94.2	87.1	79.2	71.0	61.4	51.8	41.8	31.4	21.8
102.5°	98.5	93.5	88.2	81.4	73.5	65.3	56.4	47.1	37.8	28.2	18.9
105°	92.4	87.8	82.1	75.7	68.2	60.3	51.8	43.2	34.3	25.0	16.8
107.5°	86.4	81.7	76.4	70.3	63.2	55.3	47.5	38.9	30.7	22.5	15.0
110°	80.3	76.0	71.0	65.0	58.2	51.0	43.5	35.7	27.5	20.0	13.2



TEST NUMBER: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	75.0	70.7	65.7	60.0	53.5	46.8	39.6	32.1	24.6	17.8	11.4
115°	69.6	65.7	60.7	55.7	49.3	42.8	36.0	28.9	22.1	16.1	10.0
117.5°	64.2	60.3	55.7	50.7	45.0	38.9	32.5	25.7	20.0	14.3	8.9
120°	58.9	55.3	51.0	46.4	41.4	35.3	28.9	23.2	17.8	12.5	7.9
122.5°	53.9	50.7	46.8	42.5	37.1	31.4	26.1	21.1	16.1	11.1	6.4
125°	49.3	46.0	42.5	38.2	33.2	28.2	23.6	18.9	13.9	9.6	5.4
127.5°	44.6	41.4	37.8	33.9	30.0	25.3	21.1	16.8	12.5	8.6	4.6
130°	40.0	37.1	33.9	30.7	26.8	22.5	18.9	14.6	10.7	6.8	3.9
132.5°	35.3	33.2	30.3	27.1	23.6	20.3	16.4	12.8	9.3	6.1	3.6
135°	31.4	29.3	26.8	23.9	21.1	17.8	14.3	11.1	7.9	5.0	2.9
137.5°	27.8	26.1	23.6	21.1	18.6	15.3	12.5	9.3	6.4	4.3	2.1
140°	24.6	22.8	20.7	18.2	16.1	13.2	10.4	7.5	5.7	3.6	1.8
142.5°	21.4	19.6	17.8	15.7	13.6	11.1	8.6	6.4	4.6	2.9	1.8
145°	18.2	16.8	15.0	13.2	11.1	8.9	7.1	5.4	3.6	2.1	1.4
147.5°	15.0	13.9	12.1	10.7	8.9	7.1	5.7	4.3	2.9	1.8	1.1
150°	12.1	11.1	9.6	8.2	7.1	5.7	4.6	3.2	2.1	1.8	1.1
152.5°	9.3	8.6	7.5	6.8	5.7	4.3	3.2	2.5	1.8	1.4	0.7
155°	7.5	6.8	6.1	5.0	4.3	3.2	2.5	1.8	1.4	1.1	0.7
157.5°	5.4	5.0	4.3	3.6	2.9	2.1	1.8	1.8	1.1	0.7	0.4
160°	3.6	3.2	2.9	2.1	1.8	1.8	1.4	1.1	0.7	0.7	0.4
162.5°	2.1	1.8	1.8	1.8	1.4	1.4	1.1	0.7	0.7	0.4	0.4
165°	1.4	1.4	1.4	1.1	1.1	1.1	0.7	0.4	0.4	0.4	0.4
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: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	338.7	337.6	339.1	341.6	341.9	341.6	340.8	341.9	343.3	343.0	340.5
5°	338.0	336.6	338.0	340.5	340.5	340.1	339.8	340.8	342.3	341.9	339.8
7.5°	335.9	334.4	335.9	338.0	338.4	337.6	337.6	338.7	340.1	339.8	338.0
10°	333.0	331.6	332.3	334.8	335.5	334.8	334.8	335.9	337.6	337.3	335.1
12.5°	328.7	327.6	328.4	330.5	331.2	330.9	330.5	331.9	333.7	333.7	331.6
15°	324.1	322.6	323.4	325.9	326.2	325.5	325.9	326.9	329.1	329.1	327.3
17.5°	318.7	316.9	318.0	319.8	320.1	320.1	320.1	321.6	324.1	323.7	322.3
20°	312.7	310.2	310.9	312.7	313.4	313.4	313.4	315.9	317.7	317.7	316.2
22.5°	305.5	303.7	303.7	305.5	306.6	306.2	306.2	308.4	310.9	310.5	310.5
25°	297.3	295.9	295.2	297.3	297.7	298.0	298.7	300.9	303.7	303.7	304.1
27.5°	288.7	287.3	287.0	288.7	289.1	289.5	290.2	292.7	295.5	295.9	296.6
30°	280.5	278.4	277.7	279.1	279.8	280.2	280.2	284.1	286.6	287.7	289.1
32.5°	270.9	268.8	267.0	269.5	269.8	270.5	270.9	274.8	277.7	279.5	281.6
35°	261.3	257.7	257.0	258.8	259.5	259.8	260.5	264.8	268.8	270.2	273.0
37.5°	250.6	248.1	245.9	247.7	248.4	248.8	250.9	254.8	258.8	260.9	263.8
40°	240.6	237.3	235.6	236.6	237.3	237.7	240.2	244.5	249.1	251.6	255.2
42.5°	229.5	225.2	223.8	224.9	225.2	226.3	228.4	234.1	238.8	242.3	245.2
45°	218.4	215.2	212.0	213.1	213.4	214.1	217.4	223.4	228.4	232.7	235.9
47.5°	207.0	203.1	199.9	200.6	202.0	202.4	205.9	213.1	217.7	222.4	226.6
50°	195.6	190.2	187.7	187.7	188.4	190.2	194.9	202.0	207.0	212.4	217.0
52.5°	183.8	178.8	176.0	176.3	177.0	179.2	183.5	190.6	196.3	202.0	207.7
55°	172.0	166.7	163.8	163.1	163.8	166.7	171.7	179.2	184.9	191.7	197.7
57.5°	160.3	153.8	151.3	150.3	151.0	154.5	159.5	167.4	174.5	181.0	188.1
60°	147.4	142.4	138.1	135.6	137.4	142.1	147.4	155.6	163.1	170.2	178.1
62.5°	136.3	129.9	125.3	122.8	124.6	128.5	136.0	143.8	152.0	160.3	168.1
65°	123.8	117.4	112.1	109.6	111.4	116.0	123.5	132.1	141.0	149.2	158.5
67.5°	111.7	104.9	98.5	96.0	98.2	103.1	111.4	121.0	130.6	139.2	149.2
70°	99.9	92.4	85.7	83.9	85.3	92.1	99.9	109.6	119.6	129.6	139.9
72.5°	89.2	79.9	72.8	70.7	72.5	79.9	88.9	98.9	109.6	120.3	131.3
75°	76.7	68.2	60.3	57.8	60.0	66.7	77.8	88.5	99.9	111.4	121.7
77.5°	66.7	56.7	48.5	44.6	48.2	56.7	67.5	78.9	90.7	102.4	114.2
80°	56.4	46.0	37.1	32.8	36.8	46.0	56.7	69.2	82.4	94.2	104.9
82.5°	47.1	36.0	26.8	22.1	26.4	36.8	48.5	61.0	73.9	85.7	98.2
85°	38.5	27.1	17.5	12.5	18.6	27.8	40.3	53.2	66.4	78.5	90.7
87.5°	31.4	20.3	10.7	5.4	11.4	21.8	33.5	46.4	59.6	71.7	83.2
90°	25.7	14.6	5.7	0.7	6.8	16.4	27.8	40.3	52.8	65.3	76.7
92.5°	21.1	11.1	3.2	0.4	4.3	13.2	23.9	35.7	47.8	60.0	71.0
95°	17.5	8.6	2.1	0.4	3.2	10.4	20.3	31.8	43.2	55.0	66.0
97.5°	15.0	7.1	1.8	0.4	2.5	8.9	17.5	28.2	39.3	50.3	61.0
100°	12.8	5.7	1.4	0.4	2.1	7.5	15.3	25.0	35.3	46.0	56.4
102.5°	11.1	4.6	1.1	0.4	1.8	6.4	13.6	22.5	31.8	42.1	52.1
105°	9.6	3.9	1.1	0.4	1.4	5.7	12.1	20.0	29.3	38.5	48.2
107.5°	8.2	3.2	0.7	0.4	1.1	4.6	10.7	18.2	26.4	35.3	44.3
110°	7.1	2.9	0.7	0.4	1.1	4.3	9.3	16.4	23.9	32.1	40.7

TEST NUMBER: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.1	2.1	0.7	0.4	0.7	3.6	8.2	14.6	21.8	29.3	37.5
115°	5.4	1.8	0.4	0.4	0.7	3.2	7.5	13.2	19.6	26.8	34.3
117.5°	4.3	1.4	0.4	0.4	0.4	2.5	6.4	11.8	17.8	24.6	31.4
120°	3.6	1.4	0.4	0.4	0.4	2.1	5.7	10.4	16.1	22.1	28.6
122.5°	3.2	1.1	0.4	0.4	0.4	1.8	5.0	9.3	14.3	20.0	26.1
125°	2.9	1.1	0.4	0.4	0.4	1.4	4.3	8.2	12.8	17.8	23.6
127.5°	2.1	1.1	0.4	0.4	0.4	1.1	3.9	7.1	11.4	16.1	21.1
130°	1.8	0.7	0.4	0.4	0.4	1.1	3.2	6.4	10.0	14.3	18.9
132.5°	1.4	0.7	0.4	0.4	0.4	0.7	2.5	5.0	8.6	12.5	16.8
135°	1.4	0.7	0.4	0.4	0.4	0.7	1.8	4.3	7.1	10.7	14.3
137.5°	1.4	0.4	0.4	0.4	0.4	0.7	1.4	3.2	5.7	8.6	11.8
140°	1.1	0.4	0.4	0.4	0.4	0.4	1.1	2.5	4.6	7.1	10.0
142.5°	1.1	0.4	0.4	0.4	0.4	0.4	1.1	1.8	3.6	5.7	7.9
145°	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.4	2.9	4.3	6.4
147.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1	2.1	3.6	5.0
150°	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.4	2.5	3.9
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.8	2.5
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.4	1.8
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	339.4	336.9	337.6	337.3	338.0	339.1	339.1	338.7	338.7	338.0	337.3
5°	338.7	336.2	337.3	336.9	337.6	338.7	338.7	338.4	338.4	337.3	336.9
7.5°	336.6	334.8	335.5	335.5	336.2	337.3	337.3	336.9	336.9	335.9	335.5
10°	334.4	332.3	333.4	333.4	334.1	335.5	335.5	335.1	335.1	334.1	333.7
12.5°	330.9	328.7	330.5	330.9	331.6	333.0	332.6	332.6	332.6	331.6	331.2
15°	326.6	325.1	326.9	327.3	328.4	330.1	330.1	330.1	330.1	329.1	328.7
17.5°	321.9	320.9	322.6	323.4	324.8	326.6	326.6	326.9	327.3	326.6	326.2
20°	316.6	315.9	317.7	319.1	321.2	323.0	323.7	324.1	324.8	324.1	323.7
22.5°	310.5	310.5	313.0	314.4	316.9	318.7	319.8	320.9	321.6	320.9	320.5
25°	303.7	304.8	307.3	309.8	312.7	314.4	315.5	316.9	317.7	317.3	316.9
27.5°	297.3	298.7	301.9	304.4	306.9	309.8	310.9	312.7	313.4	313.4	313.0
30°	289.8	292.0	295.5	298.4	301.6	304.4	305.9	307.7	308.7	308.0	308.4
32.5°	282.7	286.2	289.1	292.3	295.9	298.7	300.5	302.7	303.7	303.4	303.7
35°	274.8	278.4	282.3	285.5	289.8	292.7	295.2	296.9	298.4	298.0	298.0
37.5°	266.3	270.9	274.8	279.1	283.0	286.2	288.7	290.9	292.3	292.3	292.3
40°	258.0	263.0	267.0	272.0	277.0	279.8	282.7	284.8	286.2	286.6	287.0
42.5°	249.1	254.5	259.1	264.5	269.5	273.0	276.2	278.7	280.2	280.9	280.5
45°	240.9	245.9	251.3	257.3	262.0	265.5	269.5	272.3	273.8	274.1	274.5
47.5°	231.6	237.3	243.4	249.5	254.1	258.8	262.3	265.2	266.6	267.7	267.7
50°	222.7	228.8	235.6	242.0	247.0	251.6	255.2	258.4	260.2	260.9	261.3
52.5°	214.5	220.2	227.4	233.8	238.8	243.4	248.1	251.6	253.4	254.1	254.1
55°	204.5	211.6	219.5	225.6	230.9	236.3	240.9	244.5	246.3	247.3	248.1
57.5°	195.2	202.7	210.9	217.4	223.8	228.8	233.1	237.7	239.1	240.6	240.9
60°	186.3	193.8	201.7	208.8	215.2	220.6	225.6	229.5	232.0	232.7	233.4
62.5°	177.0	184.9	193.1	200.2	207.0	213.4	218.1	221.6	224.5	225.6	226.3
65°	168.1	176.3	184.5	192.0	199.2	205.6	210.2	213.8	216.6	218.4	218.8
67.5°	158.5	167.4	176.0	183.8	190.9	197.7	202.4	205.9	208.8	210.9	211.3
70°	149.5	158.8	167.4	176.0	183.1	189.9	194.9	198.4	201.7	203.1	203.8
72.5°	141.0	150.6	159.5	168.1	175.2	182.0	187.4	190.9	194.2	195.9	196.3
75°	132.8	142.4	152.0	160.3	167.7	174.5	179.9	183.8	186.7	188.4	189.2
77.5°	124.6	134.6	144.2	152.4	160.3	167.0	171.7	176.3	179.2	181.3	181.3
80°	116.4	126.7	136.7	144.9	152.8	158.8	164.2	168.8	171.7	173.8	173.8
82.5°	109.2	119.2	128.8	137.1	144.9	151.7	157.0	161.3	164.5	166.0	166.3
85°	101.0	112.1	121.0	129.9	137.4	143.8	149.2	153.8	156.7	158.1	158.8
87.5°	94.2	104.9	114.6	122.4	129.9	136.3	142.4	146.3	149.2	151.0	151.7
90°	87.8	98.2	107.8	115.6	123.5	129.6	135.3	139.2	142.4	143.8	144.5
92.5°	82.1	92.4	101.7	109.6	117.1	123.8	129.2	133.1	136.0	137.4	138.5
95°	76.7	86.7	95.7	104.2	111.4	117.4	123.1	127.1	130.3	131.3	132.4
97.5°	71.4	81.0	89.9	98.2	105.6	111.4	116.7	120.6	123.1	124.9	126.0
100°	66.7	76.0	84.6	92.4	99.6	104.9	110.6	114.2	116.7	118.1	119.6
102.5°	61.7	71.0	79.2	86.7	94.2	99.2	104.6	108.1	110.3	112.8	112.8
105°	57.5	66.0	74.2	81.4	87.8	93.9	98.5	102.1	104.6	106.4	106.4
107.5°	52.8	61.4	69.2	76.7	82.8	88.5	92.8	96.0	98.9	99.9	101.0
110°	49.3	56.7	64.6	71.7	77.4	82.8	87.1	90.7	93.2	94.2	94.9

TEST NUMBER: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	45.0	52.8	60.0	66.7	72.5	77.4	81.7	84.6	87.1	88.5	88.9
115°	41.4	48.9	55.3	61.7	67.8	72.1	76.0	78.9	81.4	82.4	83.2
117.5°	38.2	45.0	51.4	56.7	62.5	67.1	71.0	73.5	75.7	77.1	77.8
120°	35.0	41.4	47.1	52.5	57.8	62.1	65.7	68.2	70.7	71.7	71.7
122.5°	31.8	37.8	43.2	48.2	53.2	57.1	61.0	63.2	65.3	66.4	66.4
125°	28.9	34.6	39.6	44.3	48.9	52.5	55.7	58.2	60.3	61.0	61.0
127.5°	26.1	31.4	36.0	40.3	44.3	47.8	51.0	53.5	55.3	56.0	56.0
130°	23.6	28.2	32.5	36.8	40.7	43.5	46.8	48.9	50.0	51.0	51.4
132.5°	21.1	25.3	29.3	32.8	36.8	39.6	42.1	44.3	45.3	46.4	46.8
135°	18.6	22.5	26.1	29.6	32.8	35.7	37.8	39.6	41.0	41.8	42.1
137.5°	15.7	20.0	23.2	26.1	29.6	31.8	34.3	35.3	36.8	37.5	37.5
140°	13.2	16.4	20.0	22.8	25.7	27.8	30.0	31.8	32.8	33.2	33.2
142.5°	10.7	13.6	16.4	20.0	22.5	24.3	26.4	27.8	28.6	28.9	29.3
145°	8.6	10.7	13.2	16.4	19.3	21.4	22.5	23.9	24.6	25.0	25.3
147.5°	6.4	8.6	10.7	12.8	15.7	17.8	18.9	20.3	21.1	21.4	21.4
150°	5.0	6.4	7.9	10.0	12.1	14.6	16.1	17.1	17.5	17.8	17.8
152.5°	3.6	5.0	6.1	7.5	8.9	11.1	13.2	13.9	14.3	14.6	14.6
155°	2.5	3.6	4.3	5.4	6.4	8.2	10.0	11.1	11.4	11.8	11.8
157.5°	1.8	2.5	2.9	3.9	4.6	5.4	6.8	8.6	8.9	8.9	8.9
160°	1.1	1.4	1.8	2.5	2.9	3.6	4.3	5.4	6.4	6.4	6.4
162.5°	0.7	1.1	1.1	1.4	1.4	2.1	2.5	2.9	3.9	4.3	4.3
165°	0.4	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.8	2.1	2.1
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: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	337.6	338.4	338.0	338.0	338.0	338.7	338.0	334.8	335.5	336.2	336.9
5°	337.3	337.6	337.6	337.3	337.3	338.0	337.3	334.1	334.8	335.5	335.9
7.5°	335.9	336.2	336.2	336.2	335.9	336.6	335.5	332.6	332.6	333.4	333.7
10°	334.1	334.8	334.4	334.1	334.1	334.1	333.4	330.1	330.1	330.5	330.9
12.5°	331.9	331.9	331.9	331.6	331.2	331.2	330.5	327.3	326.9	327.6	327.3
15°	329.1	329.8	329.1	328.7	328.0	328.0	326.9	323.7	323.0	323.4	323.0
17.5°	326.6	326.9	326.2	325.5	324.8	324.4	323.4	319.8	318.7	319.1	318.4
20°	324.1	324.1	323.4	322.6	321.6	320.5	319.1	315.5	313.7	313.7	312.3
22.5°	320.9	320.9	320.1	319.1	318.0	316.6	315.2	311.6	308.7	308.0	306.9
25°	317.3	316.9	316.6	315.5	313.4	311.9	310.5	306.6	303.4	301.9	300.2
27.5°	313.0	313.0	311.9	310.9	308.7	306.9	305.2	301.6	297.3	295.5	293.0
30°	308.4	308.4	307.3	305.9	303.7	301.6	299.4	295.2	290.9	288.4	285.5
32.5°	303.7	303.4	302.3	300.9	298.7	295.5	293.7	289.5	284.5	281.6	277.7
35°	298.0	297.7	296.6	294.8	292.0	289.5	286.6	282.7	277.0	273.4	269.1
37.5°	292.3	292.0	291.2	288.7	285.9	283.0	279.5	275.5	270.2	265.5	261.3
40°	286.6	286.2	284.8	283.0	279.5	275.9	272.3	268.4	262.7	257.3	252.7
42.5°	280.5	280.2	278.4	276.2	272.3	268.8	264.5	260.2	254.5	248.1	243.4
45°	274.5	273.8	272.0	269.5	265.2	261.3	257.0	252.0	246.3	240.2	234.1
47.5°	268.0	267.0	265.2	261.6	258.0	253.8	248.8	243.4	237.7	230.9	224.5
50°	260.9	260.2	258.0	254.8	250.6	246.3	240.6	235.2	228.4	222.0	214.1
52.5°	254.1	252.7	250.9	247.3	243.1	238.4	232.3	225.9	219.1	213.1	204.9
55°	247.0	246.3	243.8	240.9	235.6	230.2	224.5	217.7	210.2	203.1	195.2
57.5°	240.2	238.8	236.6	232.7	228.1	222.7	216.6	209.5	201.3	193.8	185.2
60°	233.4	231.3	228.8	225.2	220.2	214.5	208.1	200.6	192.4	184.2	175.2
62.5°	225.9	224.1	221.3	217.7	212.7	206.7	199.9	192.0	184.2	175.6	166.0
65°	218.4	216.6	213.8	210.2	205.2	198.4	191.3	183.5	174.5	166.3	156.0
67.5°	210.9	209.1	205.9	202.0	197.0	190.6	183.1	174.9	166.0	157.0	146.3
70°	203.4	201.3	198.4	194.2	189.2	182.4	174.9	166.3	157.4	147.8	137.1
72.5°	195.9	194.2	190.6	186.7	181.3	174.5	167.0	158.5	149.2	139.2	128.5
75°	188.4	186.3	183.8	179.2	173.5	167.0	159.2	150.6	140.6	131.0	119.9
77.5°	181.0	179.2	176.0	171.3	166.0	159.2	151.3	142.8	132.8	122.8	111.0
80°	173.5	171.3	168.8	164.5	158.5	151.7	143.5	134.9	124.9	114.6	102.8
82.5°	166.0	163.8	161.0	156.7	151.0	144.2	136.3	127.1	117.1	106.4	95.3
85°	158.5	156.7	153.5	149.2	143.1	136.3	128.5	120.3	109.6	98.9	87.8
87.5°	151.0	149.2	146.0	141.7	136.0	129.2	121.3	112.8	102.4	92.4	80.3
90°	143.8	142.4	139.2	134.9	129.2	122.4	115.3	106.0	96.0	86.0	74.6
92.5°	137.4	136.0	133.1	128.8	123.8	116.4	109.2	100.3	90.3	79.9	68.9
95°	131.7	129.9	127.1	123.1	117.1	110.6	103.5	94.6	84.9	74.6	63.9
97.5°	125.3	123.5	120.6	116.4	111.4	104.6	97.4	88.9	79.2	69.6	58.9
100°	118.9	117.1	113.9	110.3	105.3	98.5	91.7	83.2	74.2	65.0	54.6
102.5°	112.4	110.6	107.8	104.2	99.2	93.2	86.4	78.2	69.2	60.0	50.3
105°	106.4	104.6	101.7	98.2	93.5	87.4	80.3	73.2	64.6	55.7	46.4
107.5°	100.3	98.5	96.0	92.4	87.8	82.1	75.3	67.8	60.0	51.4	42.5
110°	94.2	92.8	89.9	86.7	82.1	76.4	70.3	63.2	55.3	47.5	38.9

TEST NUMBER: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	88.5	87.1	84.2	80.7	76.7	71.4	65.3	58.5	51.0	43.5	35.3
115°	82.8	81.0	78.5	75.3	71.4	66.4	60.7	54.6	47.1	40.0	32.5
117.5°	77.1	75.7	73.2	70.0	66.4	61.4	56.0	50.3	43.2	36.4	29.6
120°	71.4	70.3	67.8	65.0	61.4	56.7	51.8	46.0	39.6	33.2	26.8
122.5°	66.0	65.0	62.5	60.0	56.4	52.1	47.5	42.1	36.4	30.3	24.6
125°	61.0	59.6	57.5	55.0	51.8	47.8	43.2	38.2	32.8	27.5	22.1
127.5°	55.7	54.6	53.2	50.3	47.1	43.5	39.3	35.0	30.0	25.0	20.0
130°	51.4	50.0	48.2	46.0	43.2	39.6	35.7	31.4	27.1	22.5	17.5
132.5°	46.4	45.0	43.5	41.4	38.9	35.7	32.1	28.2	24.3	20.0	15.7
135°	41.8	40.7	39.3	37.1	34.6	32.1	28.6	25.0	21.4	17.5	13.9
137.5°	37.5	36.4	35.0	33.5	31.1	28.6	25.3	22.1	18.9	15.3	12.1
140°	33.2	32.5	31.1	29.6	27.5	25.0	22.1	19.3	16.4	13.2	10.4
142.5°	28.9	28.2	27.1	25.7	23.9	21.8	19.3	16.8	13.9	11.4	8.9
145°	25.0	24.6	23.6	22.1	20.7	18.6	16.4	14.3	11.8	9.6	7.1
147.5°	21.1	20.7	20.0	18.9	17.5	15.7	13.9	11.8	10.0	7.9	5.7
150°	17.5	17.1	16.8	15.3	14.6	12.8	11.4	9.6	8.2	6.1	4.6
152.5°	14.3	14.3	13.6	12.5	11.8	10.4	9.3	7.9	6.4	5.0	3.6
155°	11.4	11.1	10.7	10.0	9.3	8.2	7.1	6.1	5.0	3.6	2.5
157.5°	8.9	8.6	8.2	7.5	6.8	6.4	5.4	4.3	3.2	2.5	1.8
160°	6.4	6.1	5.7	5.4	5.0	4.3	3.6	2.9	2.1	1.4	1.1
162.5°	4.3	3.9	3.9	3.6	3.2	2.5	2.1	1.8	1.4	1.1	0.7
165°	2.1	2.1	1.8	1.8	1.4	1.1	1.1	1.1	0.7	0.7	0.4
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: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	336.6	336.6	338.0	337.6	336.6	338.7	341.2
5°	335.5	335.5	336.6	336.6	335.5	337.6	339.8
7.5°	333.7	333.4	334.4	334.4	333.0	334.8	337.3
10°	330.5	330.1	331.2	331.2	329.8	331.6	333.7
12.5°	326.9	326.2	327.3	326.9	325.5	327.3	329.4
15°	322.3	321.9	322.6	321.9	320.5	322.3	324.4
17.5°	317.7	316.6	316.9	316.9	314.4	316.2	318.0
20°	311.6	310.2	310.5	310.2	308.4	309.4	311.6
22.5°	305.5	303.4	303.4	303.0	300.9	302.3	304.1
25°	298.0	295.5	295.5	295.2	292.7	293.7	295.5
27.5°	290.5	288.0	287.0	286.6	284.1	284.1	286.6
30°	282.7	279.1	278.4	277.3	274.8	274.8	277.0
32.5°	275.2	270.2	268.8	267.3	264.8	264.5	267.0
35°	265.2	261.3	258.8	257.3	254.5	253.8	255.9
37.5°	257.0	252.0	248.4	246.6	243.8	242.7	245.6
40°	248.1	242.7	238.1	237.0	232.7	231.3	233.8
42.5°	238.1	232.3	227.7	225.6	222.4	220.9	221.3
45°	228.1	222.0	217.0	214.1	210.9	208.4	209.9
47.5°	217.7	212.4	206.3	202.0	198.1	196.3	197.0
50°	207.4	200.9	195.2	190.6	186.0	183.8	185.2
52.5°	197.0	190.2	183.8	178.8	173.5	171.3	171.7
55°	187.0	179.9	172.4	167.0	162.0	158.8	158.1
57.5°	177.0	169.2	161.3	155.3	148.8	146.0	144.9
60°	166.3	158.1	149.9	142.8	136.0	132.8	131.3
62.5°	156.3	147.4	138.1	130.6	123.8	119.6	118.5
65°	146.7	136.3	127.1	118.5	111.0	106.4	104.9
67.5°	136.3	125.6	115.6	106.4	99.2	93.2	92.4
70°	126.7	115.3	104.2	94.6	86.7	80.7	77.8
72.5°	117.1	105.3	93.9	83.5	73.5	67.8	65.7
75°	107.8	95.7	83.5	72.8	61.7	55.0	52.8
77.5°	99.2	86.7	73.9	62.1	51.8	43.2	40.3
80°	91.0	78.2	64.6	52.5	41.4	32.1	28.9
82.5°	82.4	70.3	56.4	43.5	32.1	22.5	18.6
85°	75.0	62.8	48.9	36.0	24.6	14.3	10.0
87.5°	68.9	55.7	43.2	30.3	18.6	8.2	2.9
90°	62.8	50.0	37.5	25.0	13.9	4.6	0.4
92.5°	57.5	45.3	32.8	21.4	10.7	3.2	0.4
95°	52.5	40.7	28.9	17.8	8.6	2.1	0.4
97.5°	47.8	36.8	25.7	15.3	7.1	1.8	0.4
100°	43.9	33.2	22.8	13.6	6.1	1.4	0.4
102.5°	40.0	30.0	20.3	11.8	5.4	1.1	0.4
105°	36.8	27.1	18.2	10.7	4.6	1.1	0.4
107.5°	33.5	24.6	16.4	9.3	3.9	0.7	0.4
110°	30.3	22.5	14.6	8.2	3.6	0.7	0.4



TEST NUMBER: P1213314

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	27.8	20.3	13.2	7.5	2.9	0.7	0.4
115°	25.3	18.2	11.8	6.4	2.5	0.4	0.4
117.5°	22.8	16.4	10.4	5.7	2.1	0.4	0.4
120°	20.7	14.6	9.3	5.0	1.8	0.4	0.4
122.5°	18.6	13.2	8.2	4.3	1.4	0.4	0.4
125°	16.8	11.8	7.1	3.6	1.1	0.4	0.4
127.5°	15.0	10.4	6.4	3.2	1.1	0.4	0.4
130°	13.2	9.3	5.4	2.5	0.7	0.4	0.4
132.5°	11.8	7.9	4.6	2.1	0.7	0.4	0.4
135°	10.4	6.8	3.9	1.4	0.7	0.4	0.4
137.5°	8.9	5.7	3.2	1.1	0.4	0.4	0.4
140°	7.5	5.0	2.5	1.1	0.4	0.4	0.4
142.5°	6.4	3.9	1.8	0.7	0.4	0.4	0.4
145°	5.0	3.2	1.4	0.7	0.4	0.4	0.4
147.5°	3.9	2.5	1.1	0.7	0.4	0.4	0.4
150°	2.9	1.8	1.1	0.4	0.4	0.4	0.4
152.5°	2.1	1.4	0.7	0.4	0.4	0.4	0.4
155°	1.4	1.1	0.7	0.4	0.4	0.4	0.4
157.5°	1.1	0.7	0.4	0.4	0.4	0.4	0.4
160°	0.7	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)