

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: P1212999

Luminaire Tested: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212999
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-LD5-39HL-LW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

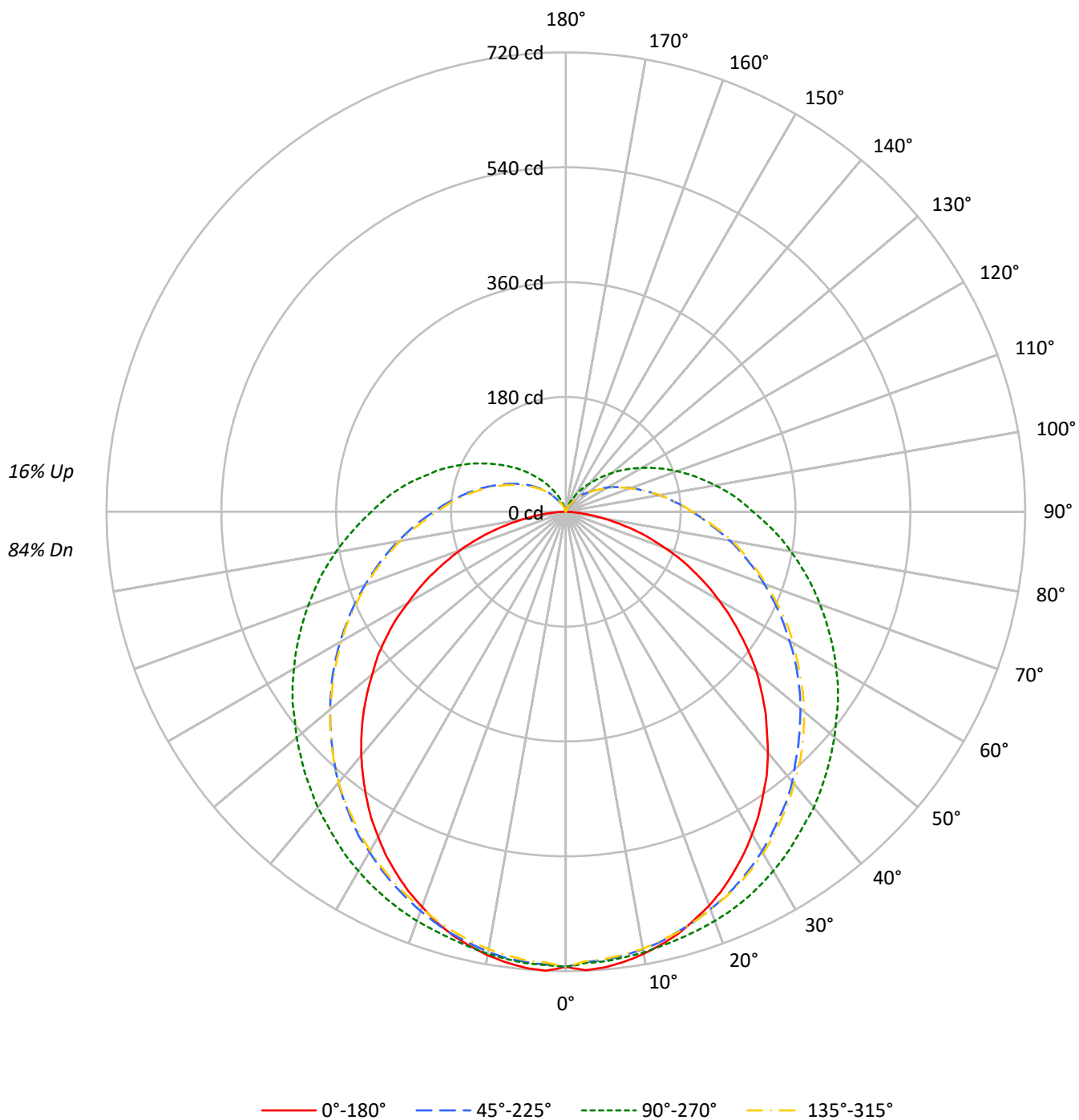
Lumens per Lamp: N/A
Luminaire Lumens: 3099.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 36
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°	11528	11528	11528	11528
5°	11558	11110	11582	11157
10°	11420	10795	11457	10829
15°	11256	10524	11306	10536
20°	11047	10326	11084	10326
25°	10795	10151	10861	10141
30°	10517	9971	10598	9971
35°	10198	9804	10312	9816
40°	9879	9705	10001	9705
45°	9517	9604	9663	9615
50°	9138	9543	9262	9569
55°	8622	9552	8896	9592
60°	8076	9581	8339	9639
65°	7459	9676	7790	9771
70°	6614	9854	7130	9994
75°	5641	10177	6172	10372
80°	4185	10655	4755	10899
85°	2282	11420	2845	11735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 13119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	2.2
10°-20°	194.2	6.3
20°-30°	297.7	9.6
30°-40°	367.3	11.9
40°-50°	398.5	12.9
50°-60°	392.8	12.7
60°-70°	355.1	11.5
70°-80°	295.9	9.5
80°-90°	229.2	7.4
90°-100°	173.8	5.6
100°-110°	128.6	4.2
110°-120°	89.5	2.9
120°-130°	57.1	1.8
130°-140°	32.0	1.0
140°-150°	14.6	0.5
150°-160°	4.5	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	559.5	18.1
0°-40°	926.8	29.9
0°-60°	1718.2	55.4
0°-90°	2598.3	83.8
90°-120°	391.9	12.6
90°-150°	495.6	16.0
90°-180°	501.0	16.2
0°-180°	3099.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	713	713	713	713	713	
5°	716	707	718	710	716	68
15°	684	692	687	693	684	193
25°	623	669	627	668	623	287
35°	540	628	546	628	540	338
45°	442	578	449	579	442	341
55°	333	521	344	523	333	298
65°	221	457	231	461	221	219
75°	111	391	122	399	111	118
85°	21	326	26	335	21	25
90°	1	293	2	305	1	1
95°	1	266	1	279	1	1
105°	1	211	1	224	1	1
115°	1	161	1	175	1	1
125°	1	116	1	129	1	1
135°	1	75	1	89	1	1
145°	1	44	1	53	1	1
155°	1	18	1	25	1	0
165°	1	3	1	4	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	719.3	719.3	718.6	717.1	717.8	720.1	718.6	714.8	712.5	706.5	708.0
5°	716.3	716.3	715.6	714.1	714.8	717.8	716.3	713.3	710.3	705.0	707.3
7.5°	711.0	711.0	710.3	708.8	710.3	713.3	711.8	708.8	706.5	701.3	703.5
10°	703.5	704.3	703.5	701.3	704.3	707.3	706.5	702.8	700.5	696.0	698.3
12.5°	694.5	695.2	694.5	693.7	695.2	699.8	698.3	695.2	693.7	690.0	692.2
15°	684.0	684.7	683.2	683.2	684.7	689.2	689.2	686.2	684.7	680.9	685.5
17.5°	670.4	671.2	670.4	670.4	671.9	676.4	677.2	675.7	674.2	672.7	677.2
20°	656.9	656.1	656.1	655.4	658.4	665.1	664.4	664.4	662.9	662.9	668.2
22.5°	641.1	641.1	640.3	640.3	644.1	650.1	650.1	651.6	650.1	653.1	657.6
25°	623.0	623.8	623.0	624.5	627.5	634.3	635.0	637.3	638.1	641.1	646.3
27.5°	604.2	604.9	604.2	605.7	611.0	616.2	620.0	623.0	623.8	628.3	635.0
30°	583.9	583.9	584.6	586.1	592.2	600.4	603.4	607.2	607.2	614.7	621.5
32.5°	562.8	562.8	562.8	565.8	572.6	582.4	586.1	590.7	592.2	599.7	607.2
35°	539.5	540.2	540.2	542.5	551.5	561.3	566.6	571.8	574.9	583.9	591.4
37.5°	517.7	519.2	516.9	519.9	532.7	541.0	547.0	552.3	557.5	569.6	575.6
40°	492.8	494.3	493.6	499.6	510.1	520.7	527.4	532.7	540.2	552.3	559.1
42.5°	466.5	468.0	469.5	476.3	487.6	498.1	506.4	513.2	522.2	532.7	544.0
45°	442.4	442.4	444.7	453.0	465.0	476.3	486.1	493.6	504.1	515.4	526.7
47.5°	415.3	416.1	419.1	428.9	441.7	455.2	464.2	474.0	485.3	497.4	510.1
50°	390.5	390.5	395.0	405.6	417.6	432.6	442.4	453.7	465.8	480.0	492.8
52.5°	361.9	363.4	370.2	380.0	395.8	409.3	420.6	432.6	446.9	462.0	476.3
55°	333.3	336.3	341.6	355.1	371.7	384.5	398.0	413.1	426.6	443.2	459.7
57.5°	305.5	307.7	316.0	329.6	346.9	362.7	377.0	391.3	407.8	424.4	441.7
60°	276.9	279.9	289.7	303.2	322.0	338.6	355.1	370.2	387.5	404.8	422.9
62.5°	249.8	252.1	263.3	279.1	298.0	316.0	332.6	350.6	369.4	386.0	404.1
65°	221.2	225.0	237.8	252.1	273.9	291.9	310.8	330.3	349.9	367.9	385.2
67.5°	194.9	197.1	210.7	227.2	249.1	269.4	288.9	310.0	330.3	349.1	366.4
70°	164.0	171.6	185.1	202.4	225.7	246.8	267.9	289.7	311.5	331.1	347.6
72.5°	138.4	144.5	159.5	178.3	200.9	225.7	247.5	270.9	292.7	313.0	330.3
75°	111.4	117.4	134.7	155.8	179.1	205.4	228.0	252.1	274.6	295.0	313.0
77.5°	85.0	92.5	111.4	133.2	158.8	185.8	209.2	233.3	256.6	278.4	296.5
80°	60.9	69.2	89.5	114.4	139.2	166.3	191.9	215.9	239.3	261.1	279.9
82.5°	39.1	48.2	70.0	94.8	121.1	148.2	174.6	198.6	222.0	243.8	263.3
85°	21.1	30.8	53.4	78.3	104.6	131.7	158.0	183.6	206.2	226.5	247.5
87.5°	6.0	18.1	39.9	64.7	91.8	116.6	142.2	167.8	190.4	212.2	231.0
90°	0.8	10.5	30.1	53.4	79.8	103.8	129.4	153.5	176.1	197.9	216.7
92.5°	0.8	6.8	23.3	44.4	68.5	93.3	118.9	142.2	163.3	185.1	203.9
95°	0.8	5.3	18.8	37.6	60.2	83.5	107.6	130.2	152.0	172.3	191.1
97.5°	0.8	3.8	15.0	32.4	52.7	74.5	97.8	120.4	141.5	161.0	178.3
100°	0.8	3.0	12.0	27.8	45.9	67.0	88.0	109.9	130.2	149.0	167.0
102.5°	0.8	2.3	10.5	23.3	40.6	59.4	79.8	100.1	119.6	137.7	155.8
105°	0.8	2.3	9.0	20.3	36.1	53.4	72.2	91.8	109.9	127.2	143.7
107.5°	0.8	1.5	7.5	17.3	31.6	48.2	65.5	84.3	100.8	117.4	133.2
110°	0.8	1.5	6.0	15.8	27.8	42.9	59.4	76.7	92.5	108.3	123.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.5	5.3	13.5	24.1	38.4	53.4	69.2	84.3	100.1	113.6
115°	0.8	1.5	4.5	12.0	22.6	33.1	48.2	62.5	77.5	91.8	104.6
117.5°	0.8	1.5	3.8	9.8	19.6	30.1	42.1	56.4	70.0	83.5	95.6
120°	0.8	1.5	3.0	9.0	17.3	27.1	37.6	50.4	63.2	76.0	88.8
122.5°	0.8	0.8	3.0	7.5	15.0	24.1	34.6	44.4	56.4	68.5	79.8
125°	0.8	0.8	3.0	6.8	12.8	21.8	30.8	39.9	50.4	60.9	70.7
127.5°	0.8	0.8	2.3	5.3	11.3	18.8	27.1	36.9	44.4	54.2	64.0
130°	0.8	0.8	2.3	4.5	9.8	15.8	24.1	32.4	41.4	48.2	56.4
132.5°	0.8	0.8	2.3	3.8	7.5	12.8	20.3	27.8	36.1	43.6	50.4
135°	0.8	0.8	1.5	3.0	6.0	10.5	16.6	23.3	31.6	39.1	45.9
137.5°	0.8	0.8	1.5	3.0	4.5	9.0	12.8	18.8	26.3	33.1	39.9
140°	0.8	0.8	1.5	2.3	3.8	6.8	10.5	15.0	21.1	27.1	34.6
142.5°	0.8	0.8	0.8	2.3	3.0	5.3	8.3	12.0	16.6	21.8	27.8
145°	0.8	0.8	0.8	2.3	3.0	3.8	6.8	9.8	12.8	16.6	21.8
147.5°	0.8	0.8	0.8	1.5	2.3	3.0	5.3	7.5	9.8	12.8	15.8
150°	0.8	0.8	0.8	1.5	2.3	3.0	3.8	5.3	7.5	10.5	12.8
152.5°	0.8	0.8	0.8	1.5	1.5	2.3	3.0	3.8	5.3	7.5	9.0
155°	0.8	0.8	0.8	0.8	1.5	2.3	3.0	3.0	3.8	5.3	6.8
157.5°	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	3.0	3.0	4.5
160°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	2.3	2.3
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	2.3
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	708.0	708.8	711.0	711.0	709.5	709.5	708.8	708.0	708.8	710.3	710.3
5°	706.5	707.3	709.5	710.3	708.8	708.0	708.0	707.3	708.0	709.5	709.5
7.5°	703.5	704.3	706.5	707.3	705.8	705.8	705.0	704.3	705.8	706.5	706.5
10°	699.0	699.8	702.8	703.5	702.8	702.0	702.0	701.3	702.0	703.5	703.5
12.5°	693.0	694.5	698.3	698.3	698.3	697.5	697.5	696.7	697.5	699.0	698.3
15°	686.2	689.2	692.2	693.7	693.7	693.7	693.0	692.2	693.7	694.5	693.7
17.5°	678.7	682.4	687.0	688.5	688.5	689.2	688.5	687.7	689.2	689.2	688.5
20°	671.2	674.9	679.4	680.9	682.4	683.2	683.2	682.4	683.2	684.0	683.2
22.5°	661.4	665.9	671.2	673.4	674.9	676.4	676.4	676.4	677.2	677.9	676.4
25°	650.8	656.1	662.1	664.4	667.4	668.2	668.9	668.9	669.7	670.4	668.2
27.5°	639.6	645.6	651.6	655.4	657.6	659.1	659.1	659.9	660.6	661.4	659.1
30°	626.0	635.0	640.3	643.3	646.3	648.6	649.3	650.1	650.8	651.6	649.3
32.5°	614.0	621.5	628.3	632.0	635.8	638.8	639.6	639.6	641.1	641.1	638.8
35°	599.7	608.7	615.5	619.2	623.8	626.0	627.5	627.5	629.0	629.0	626.8
37.5°	585.4	594.4	601.9	606.5	611.7	614.7	615.5	615.5	617.0	617.0	614.0
40°	570.3	580.1	588.4	593.7	598.2	601.9	602.7	604.9	604.9	604.2	601.2
42.5°	555.3	564.3	573.3	579.4	585.4	589.1	590.7	591.4	591.4	590.7	588.4
45°	538.7	549.3	557.5	565.1	571.1	574.9	577.1	577.9	577.9	576.4	574.1
47.5°	522.9	533.5	541.7	550.0	556.0	560.6	562.8	563.6	562.8	562.1	559.8
50°	506.4	518.4	526.7	535.0	541.0	544.8	548.5	549.3	548.5	547.8	543.3
52.5°	489.1	501.9	510.9	519.2	525.9	530.5	533.5	534.2	534.2	532.7	529.7
55°	471.8	483.1	494.3	503.4	510.9	515.4	519.2	520.7	519.2	517.7	513.9
57.5°	456.0	466.5	477.8	487.6	495.1	501.1	504.1	505.6	504.1	501.9	498.1
60°	437.2	448.4	461.2	470.3	478.5	484.6	486.1	489.1	487.6	485.3	481.6
62.5°	419.1	432.6	443.9	455.2	462.0	468.8	471.8	473.3	471.8	469.5	465.8
65°	400.3	415.3	426.6	437.9	445.4	452.2	456.0	456.7	455.2	453.0	449.2
67.5°	383.0	397.3	409.3	421.4	428.1	434.9	438.7	440.2	438.7	435.7	431.9
70°	365.7	380.0	394.3	403.3	411.6	419.1	421.4	423.6	422.1	419.1	414.6
72.5°	348.4	363.4	377.7	386.7	395.8	402.5	405.6	407.8	406.3	403.3	398.0
75°	330.3	346.1	360.4	370.2	379.2	386.0	389.0	391.3	389.8	386.7	380.7
77.5°	313.8	329.6	343.1	353.6	362.7	368.7	374.0	374.7	373.2	370.2	364.2
80°	296.5	312.3	326.6	337.1	346.1	352.1	355.9	358.2	356.6	353.6	347.6
82.5°	281.4	295.7	310.0	320.5	329.6	337.1	340.1	342.4	341.6	337.1	332.6
85°	264.9	281.4	292.7	304.0	313.0	320.5	322.8	325.8	325.0	321.3	315.3
87.5°	248.3	264.9	278.4	289.7	298.0	304.0	307.7	309.2	308.5	304.7	298.0
90°	234.8	249.8	263.3	275.4	282.2	288.9	292.7	293.4	293.4	288.9	283.7
92.5°	222.0	236.3	249.8	261.1	269.4	275.4	278.4	279.9	279.1	275.4	269.4
95°	207.7	223.5	236.3	247.5	255.8	261.8	264.9	266.4	265.6	261.8	255.8
97.5°	195.6	209.9	222.7	233.3	241.5	247.5	250.6	252.1	252.1	248.3	242.3
100°	183.6	197.9	209.9	220.5	228.0	234.0	237.0	237.8	237.0	234.0	228.0
102.5°	171.6	185.1	197.1	206.9	215.2	220.5	223.5	224.2	224.2	220.5	214.4
105°	159.5	173.1	184.3	194.9	201.6	206.9	209.2	211.4	210.7	207.7	201.6
107.5°	148.2	161.8	172.3	182.1	188.9	194.1	196.4	198.6	197.9	194.9	188.9
110°	137.7	150.5	160.3	170.0	176.1	181.3	185.1	185.8	184.3	181.3	176.1

TEST NUMBER: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	127.9	139.2	149.0	158.0	164.8	168.5	171.6	173.1	171.6	168.5	164.8
115°	117.4	128.7	138.4	146.7	152.7	157.3	159.5	161.0	159.5	156.5	152.7
117.5°	107.6	118.1	127.9	136.2	141.5	145.2	147.5	149.0	147.5	145.2	141.5
120°	99.3	108.3	117.4	124.9	130.9	133.9	136.2	137.7	136.9	133.9	130.2
122.5°	89.5	99.3	107.6	115.1	120.4	123.4	124.9	126.4	125.7	123.4	119.6
125°	81.3	89.5	97.8	104.6	109.9	112.9	114.4	115.9	115.1	112.9	108.3
127.5°	72.2	81.3	88.0	94.8	98.6	103.1	103.8	105.3	104.6	102.3	98.6
130°	65.5	72.2	79.0	85.0	89.5	92.5	94.1	94.8	93.3	91.8	88.0
132.5°	57.2	64.7	70.7	76.0	79.0	82.0	83.5	84.3	84.3	82.0	79.0
135°	51.2	56.4	61.7	67.0	70.0	73.0	74.5	75.2	74.5	73.0	70.0
137.5°	45.9	50.4	54.2	58.7	62.5	64.0	65.5	65.5	64.7	64.0	61.7
140°	39.9	45.1	48.9	51.9	54.9	55.7	57.2	57.2	56.4	55.7	54.2
142.5°	33.9	38.4	42.1	45.9	48.2	49.7	50.4	51.2	50.4	49.7	47.4
145°	27.1	32.4	36.1	38.4	41.4	42.1	42.9	43.6	42.9	42.1	39.9
147.5°	21.1	25.6	29.3	32.4	34.6	35.4	36.1	36.9	36.1	34.6	33.9
150°	15.0	18.8	23.3	26.3	27.8	29.3	29.3	29.3	30.1	28.6	27.1
152.5°	12.0	13.5	16.6	19.6	21.8	22.6	23.3	23.3	22.6	22.6	21.1
155°	8.3	9.8	12.0	14.3	16.6	17.3	18.1	18.1	17.3	17.3	16.6
157.5°	5.3	6.8	8.3	9.8	12.0	12.8	13.5	13.5	13.5	12.8	12.0
160°	3.0	3.8	4.5	6.0	7.5	8.3	9.0	9.0	9.0	9.0	8.3
162.5°	2.3	2.3	2.3	3.0	3.8	4.5	5.3	5.3	5.3	5.3	4.5
165°	1.5	1.5	1.5	1.5	1.5	2.3	3.0	3.0	3.0	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: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	709.5	709.5	710.3	708.8	704.3	705.0	705.0	708.0	709.5	710.3	714.1
5°	708.0	708.0	709.5	707.3	703.5	703.5	703.5	706.5	707.3	708.8	711.8
7.5°	705.8	705.8	706.5	704.3	699.8	699.8	699.0	702.0	703.5	704.3	707.3
10°	702.0	702.0	702.8	700.5	695.2	695.2	694.5	696.7	697.5	699.0	701.3
12.5°	696.7	696.7	696.7	694.5	689.2	688.5	687.7	690.0	690.0	690.7	693.0
15°	692.2	690.7	690.7	688.5	683.2	681.7	680.2	680.9	682.4	681.7	683.2
17.5°	687.0	685.5	684.0	681.7	674.9	672.7	671.2	671.9	671.2	670.4	671.9
20°	680.9	678.7	677.9	674.2	667.4	663.6	660.6	659.1	659.9	657.6	658.4
22.5°	674.2	671.2	669.7	665.1	658.4	653.9	650.1	647.1	646.3	643.3	644.1
25°	665.9	662.1	659.9	656.1	648.6	643.3	638.8	634.3	632.0	628.3	627.5
27.5°	656.1	652.4	649.3	645.6	638.1	631.3	626.0	620.0	617.0	612.5	610.2
30°	646.3	641.8	637.3	634.3	626.0	618.5	610.2	604.9	600.4	595.2	591.4
32.5°	634.3	629.8	625.3	620.8	613.2	604.2	597.4	589.1	583.9	577.9	573.3
35°	622.3	616.2	611.7	605.7	598.9	588.4	580.1	571.8	565.1	558.3	553.0
37.5°	608.7	604.2	597.4	592.2	583.9	573.3	564.3	553.8	547.8	538.7	532.0
40°	595.9	590.7	583.9	577.1	568.8	556.8	547.0	535.0	528.2	517.7	510.9
42.5°	583.1	575.6	568.8	561.3	552.3	541.0	529.0	516.9	507.9	498.1	488.3
45°	568.8	560.6	552.3	544.0	535.0	523.7	510.9	498.1	486.8	477.8	465.8
47.5°	553.8	545.5	535.7	526.7	516.9	505.6	492.1	478.5	466.5	456.0	443.2
50°	538.7	530.5	519.9	510.1	498.9	487.6	473.3	457.5	444.7	431.1	419.9
52.5°	522.9	514.7	504.9	492.1	480.0	468.8	453.7	437.2	422.9	411.6	397.3
55°	507.1	498.9	487.6	474.8	462.7	448.4	434.1	417.6	401.8	388.3	374.0
57.5°	490.6	483.1	470.3	459.7	444.7	429.6	414.6	398.8	381.5	365.7	349.1
60°	474.0	465.8	453.7	440.9	425.9	410.8	395.0	377.7	359.7	342.4	327.3
62.5°	459.0	448.4	437.2	423.6	407.8	393.5	375.5	356.6	338.6	320.5	302.5
65°	441.7	430.4	419.9	406.3	389.8	373.2	355.1	336.3	316.8	297.2	279.1
67.5°	424.4	413.1	401.8	388.3	370.9	353.6	334.8	316.0	294.2	275.4	254.3
70°	407.1	398.0	383.7	369.4	353.6	334.8	316.0	295.7	273.1	252.8	231.0
72.5°	389.8	380.7	366.4	351.4	336.3	316.8	296.5	276.1	255.1	231.7	208.4
75°	373.2	361.9	349.1	334.8	319.0	298.7	278.4	257.3	232.5	210.7	186.6
77.5°	357.4	346.9	334.1	318.3	301.0	281.4	260.3	238.5	213.7	190.4	164.0
80°	340.1	329.6	316.8	301.0	283.7	264.9	242.3	219.7	195.6	170.0	143.0
82.5°	323.5	313.8	299.5	285.2	266.4	247.5	225.0	202.4	176.8	152.0	125.7
85°	306.2	296.5	282.9	267.9	249.8	229.5	208.4	185.8	160.3	134.7	108.3
87.5°	291.2	279.9	266.4	251.3	233.3	213.7	193.4	169.3	144.5	119.6	92.5
90°	275.4	264.9	251.3	236.3	218.2	198.6	177.6	155.0	130.9	105.3	79.8
92.5°	261.8	250.6	237.8	222.7	204.7	185.8	164.8	142.2	118.9	94.1	69.2
95°	248.3	237.0	225.0	209.9	191.9	173.1	152.0	130.2	107.6	83.5	60.2
97.5°	233.3	223.5	211.4	197.1	179.1	161.0	140.7	119.6	97.8	74.5	52.7
100°	221.2	209.9	198.6	183.6	167.0	149.7	129.4	109.1	88.0	66.2	45.9
102.5°	207.7	197.1	185.8	171.6	155.0	137.7	118.9	99.3	79.8	59.4	39.9
105°	194.9	185.1	173.1	159.5	143.7	127.2	109.1	91.0	72.2	52.7	35.4
107.5°	182.1	172.3	161.0	148.2	133.2	116.6	100.1	82.0	64.7	47.4	31.6
110°	169.3	160.3	149.7	136.9	122.6	107.6	91.8	75.2	57.9	42.1	27.8

TEST NUMBER: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.0	149.0	138.4	126.4	112.9	98.6	83.5	67.7	51.9	37.6	24.1
115°	146.7	138.4	127.9	117.4	103.8	90.3	76.0	60.9	46.7	33.9	21.1
117.5°	135.4	127.2	117.4	106.8	94.8	82.0	68.5	54.2	42.1	30.1	18.8
120°	124.2	116.6	107.6	97.8	87.3	74.5	60.9	48.9	37.6	26.3	16.6
122.5°	113.6	106.8	98.6	89.5	78.3	66.2	54.9	44.4	33.9	23.3	13.5
125°	103.8	97.1	89.5	80.5	70.0	59.4	49.7	39.9	29.3	20.3	11.3
127.5°	94.1	87.3	79.8	71.5	63.2	53.4	44.4	35.4	26.3	18.1	9.8
130°	84.3	78.3	71.5	64.7	56.4	47.4	39.9	30.8	22.6	14.3	8.3
132.5°	74.5	70.0	64.0	57.2	49.7	42.9	34.6	27.1	19.6	12.8	7.5
135°	66.2	61.7	56.4	50.4	44.4	37.6	30.1	23.3	16.6	10.5	6.0
137.5°	58.7	54.9	49.7	44.4	39.1	32.4	26.3	19.6	13.5	9.0	4.5
140°	51.9	48.2	43.6	38.4	33.9	27.8	21.8	15.8	12.0	7.5	3.8
142.5°	45.1	41.4	37.6	33.1	28.6	23.3	18.1	13.5	9.8	6.0	3.8
145°	38.4	35.4	31.6	27.8	23.3	18.8	15.0	11.3	7.5	4.5	3.0
147.5°	31.6	29.3	25.6	22.6	18.8	15.0	12.0	9.0	6.0	3.8	2.3
150°	25.6	23.3	20.3	17.3	15.0	12.0	9.8	6.8	4.5	3.8	2.3
152.5°	19.6	18.1	15.8	14.3	12.0	9.0	6.8	5.3	3.8	3.0	1.5
155°	15.8	14.3	12.8	10.5	9.0	6.8	5.3	3.8	3.0	2.3	1.5
157.5°	11.3	10.5	9.0	7.5	6.0	4.5	3.8	3.8	2.3	1.5	0.8
160°	7.5	6.8	6.0	4.5	3.8	3.8	3.0	2.3	1.5	1.5	0.8
162.5°	4.5	3.8	3.8	3.8	3.0	3.0	2.3	1.5	1.5	0.8	0.8
165°	3.0	3.0	3.0	2.3	2.3	2.3	1.5	0.8	0.8	0.8	0.8
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: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	714.1	711.8	714.8	720.1	720.8	720.1	718.6	720.8	723.8	723.1	717.8
5°	712.5	709.5	712.5	717.8	717.8	717.1	716.3	718.6	721.6	720.8	716.3
7.5°	708.0	705.0	708.0	712.5	713.3	711.8	711.8	714.1	717.1	716.3	712.5
10°	702.0	699.0	700.5	705.8	707.3	705.8	705.8	708.0	711.8	711.0	706.5
12.5°	693.0	690.7	692.2	696.7	698.3	697.5	696.7	699.8	703.5	703.5	699.0
15°	683.2	680.2	681.7	687.0	687.7	686.2	687.0	689.2	693.7	693.7	690.0
17.5°	671.9	668.2	670.4	674.2	674.9	674.9	674.9	677.9	683.2	682.4	679.4
20°	659.1	653.9	655.4	659.1	660.6	660.6	660.6	665.9	669.7	669.7	666.6
22.5°	644.1	640.3	640.3	644.1	646.3	645.6	645.6	650.1	655.4	654.6	654.6
25°	626.8	623.8	622.3	626.8	627.5	628.3	629.8	634.3	640.3	640.3	641.1
27.5°	608.7	605.7	604.9	608.7	609.5	610.2	611.7	617.0	623.0	623.8	625.3
30°	591.4	586.9	585.4	588.4	589.9	590.7	590.7	598.9	604.2	606.5	609.5
32.5°	571.1	566.6	562.8	568.1	568.8	570.3	571.1	579.4	585.4	589.1	593.7
35°	550.8	543.3	541.7	545.5	547.0	547.8	549.3	558.3	566.6	569.6	575.6
37.5°	528.2	522.9	518.4	522.2	523.7	524.4	529.0	537.2	545.5	550.0	556.0
40°	507.1	500.4	496.6	498.9	500.4	501.1	506.4	515.4	525.2	530.5	538.0
42.5°	483.8	474.8	471.8	474.0	474.8	477.0	481.6	493.6	503.4	510.9	516.9
45°	460.5	453.7	446.9	449.2	450.0	451.5	458.2	471.0	481.6	490.6	497.4
47.5°	436.4	428.1	421.4	422.9	425.9	426.6	434.1	449.2	459.0	468.8	477.8
50°	412.3	401.0	395.8	395.8	397.3	401.0	410.8	425.9	436.4	447.7	457.5
52.5°	387.5	377.0	370.9	371.7	373.2	377.7	386.7	401.8	413.8	425.9	437.9
55°	362.7	351.4	345.4	343.9	345.4	351.4	361.9	377.7	389.8	404.1	416.8
57.5°	337.8	324.3	319.0	316.8	318.3	325.8	336.3	352.9	367.9	381.5	396.5
60°	310.8	300.2	291.2	285.9	289.7	299.5	310.8	328.1	343.9	358.9	375.5
62.5°	287.4	273.9	264.1	258.8	262.6	270.9	286.7	303.2	320.5	337.8	354.4
65°	261.1	247.5	236.3	231.0	234.8	244.5	260.3	278.4	297.2	314.5	334.1
67.5°	235.5	221.2	207.7	202.4	206.9	217.5	234.8	255.1	275.4	293.4	314.5
70°	210.7	194.9	180.6	176.8	179.8	194.1	210.7	231.0	252.1	273.1	295.0
72.5°	188.1	168.5	153.5	149.0	152.7	168.5	187.4	208.4	231.0	253.6	276.9
75°	161.8	143.7	127.2	121.9	126.4	140.7	164.0	186.6	210.7	234.8	256.6
77.5°	140.7	119.6	102.3	94.1	101.6	119.6	142.2	166.3	191.1	215.9	240.8
80°	118.9	97.1	78.3	69.2	77.5	97.1	119.6	146.0	173.8	198.6	221.2
82.5°	99.3	76.0	56.4	46.7	55.7	77.5	102.3	128.7	155.8	180.6	206.9
85°	81.3	57.2	36.9	26.3	39.1	58.7	85.0	112.1	140.0	165.5	191.1
87.5°	66.2	42.9	22.6	11.3	24.1	45.9	70.7	97.8	125.7	151.2	175.3
90°	54.2	30.8	12.0	1.5	14.3	34.6	58.7	85.0	111.4	137.7	161.8
92.5°	44.4	23.3	6.8	0.8	9.0	27.8	50.4	75.2	100.8	126.4	149.7
95°	36.9	18.1	4.5	0.8	6.8	21.8	42.9	67.0	91.0	115.9	139.2
97.5°	31.6	15.0	3.8	0.8	5.3	18.8	36.9	59.4	82.8	106.1	128.7
100°	27.1	12.0	3.0	0.8	4.5	15.8	32.4	52.7	74.5	97.1	118.9
102.5°	23.3	9.8	2.3	0.8	3.8	13.5	28.6	47.4	67.0	88.8	109.9
105°	20.3	8.3	2.3	0.8	3.0	12.0	25.6	42.1	61.7	81.3	101.6
107.5°	17.3	6.8	1.5	0.8	2.3	9.8	22.6	38.4	55.7	74.5	93.3
110°	15.0	6.0	1.5	0.8	2.3	9.0	19.6	34.6	50.4	67.7	85.8

TEST NUMBER: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.8	4.5	1.5	0.8	1.5	7.5	17.3	30.8	45.9	61.7	79.0
115°	11.3	3.8	0.8	0.8	1.5	6.8	15.8	27.8	41.4	56.4	72.2
117.5°	9.0	3.0	0.8	0.8	0.8	5.3	13.5	24.8	37.6	51.9	66.2
120°	7.5	3.0	0.8	0.8	0.8	4.5	12.0	21.8	33.9	46.7	60.2
122.5°	6.8	2.3	0.8	0.8	0.8	3.8	10.5	19.6	30.1	42.1	54.9
125°	6.0	2.3	0.8	0.8	0.8	3.0	9.0	17.3	27.1	37.6	49.7
127.5°	4.5	2.3	0.8	0.8	0.8	2.3	8.3	15.0	24.1	33.9	44.4
130°	3.8	1.5	0.8	0.8	0.8	2.3	6.8	13.5	21.1	30.1	39.9
132.5°	3.0	1.5	0.8	0.8	0.8	1.5	5.3	10.5	18.1	26.3	35.4
135°	3.0	1.5	0.8	0.8	0.8	1.5	3.8	9.0	15.0	22.6	30.1
137.5°	3.0	0.8	0.8	0.8	0.8	1.5	3.0	6.8	12.0	18.1	24.8
140°	2.3	0.8	0.8	0.8	0.8	0.8	2.3	5.3	9.8	15.0	21.1
142.5°	2.3	0.8	0.8	0.8	0.8	0.8	2.3	3.8	7.5	12.0	16.6
145°	1.5	0.8	0.8	0.8	0.8	0.8	1.5	3.0	6.0	9.0	13.5
147.5°	1.5	0.8	0.8	0.8	0.8	0.8	1.5	2.3	4.5	7.5	10.5
150°	1.5	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.0	5.3	8.3
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	3.8	5.3
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.0	3.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	3.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	715.6	710.3	711.8	711.0	712.5	714.8	714.8	714.1	714.1	712.5	711.0
5°	714.1	708.8	711.0	710.3	711.8	714.1	714.1	713.3	713.3	711.0	710.3
7.5°	709.5	705.8	707.3	707.3	708.8	711.0	711.0	710.3	710.3	708.0	707.3
10°	705.0	700.5	702.8	702.8	704.3	707.3	707.3	706.5	706.5	704.3	703.5
12.5°	697.5	693.0	696.7	697.5	699.0	702.0	701.3	701.3	701.3	699.0	698.3
15°	688.5	685.5	689.2	690.0	692.2	696.0	696.0	696.0	696.0	693.7	693.0
17.5°	678.7	676.4	680.2	681.7	684.7	688.5	688.5	689.2	690.0	688.5	687.7
20°	667.4	665.9	669.7	672.7	677.2	680.9	682.4	683.2	684.7	683.2	682.4
22.5°	654.6	654.6	659.9	662.9	668.2	671.9	674.2	676.4	677.9	676.4	675.7
25°	640.3	642.6	647.8	653.1	659.1	662.9	665.1	668.2	669.7	668.9	668.2
27.5°	626.8	629.8	636.6	641.8	647.1	653.1	655.4	659.1	660.6	660.6	659.9
30°	611.0	615.5	623.0	629.0	635.8	641.8	644.8	648.6	650.8	649.3	650.1
32.5°	595.9	603.4	609.5	616.2	623.8	629.8	633.5	638.1	640.3	639.6	640.3
35°	579.4	586.9	595.2	601.9	611.0	617.0	622.3	626.0	629.0	628.3	628.3
37.5°	561.3	571.1	579.4	588.4	596.7	603.4	608.7	613.2	616.2	616.2	616.2
40°	544.0	554.5	562.8	573.3	583.9	589.9	595.9	600.4	603.4	604.2	604.9
42.5°	525.2	536.5	546.3	557.5	568.1	575.6	582.4	587.6	590.7	592.2	591.4
45°	507.9	518.4	529.7	542.5	552.3	559.8	568.1	574.1	577.1	577.9	578.6
47.5°	488.3	500.4	513.2	525.9	535.7	545.5	553.0	559.1	562.1	564.3	564.3
50°	469.5	482.3	496.6	510.1	520.7	530.5	538.0	544.8	548.5	550.0	550.8
52.5°	452.2	464.2	479.3	492.8	503.4	513.2	522.9	530.5	534.2	535.7	535.7
55°	431.1	446.2	462.7	475.5	486.8	498.1	507.9	515.4	519.2	521.4	522.9
57.5°	411.6	427.4	444.7	458.2	471.8	482.3	491.3	501.1	504.1	507.1	507.9
60°	392.8	408.6	425.1	440.2	453.7	465.0	475.5	483.8	489.1	490.6	492.1
62.5°	373.2	389.8	407.1	422.1	436.4	450.0	459.7	467.3	473.3	475.5	477.0
65°	354.4	371.7	389.0	404.8	419.9	433.4	443.2	450.7	456.7	460.5	461.2
67.5°	334.1	352.9	370.9	387.5	402.5	416.8	426.6	434.1	440.2	444.7	445.4
70°	315.3	334.8	352.9	370.9	386.0	400.3	410.8	418.3	425.1	428.1	429.6
72.5°	297.2	317.5	336.3	354.4	369.4	383.7	395.0	402.5	409.3	413.1	413.8
75°	279.9	300.2	320.5	337.8	353.6	367.9	379.2	387.5	393.5	397.3	398.8
77.5°	262.6	283.7	304.0	321.3	337.8	352.1	361.9	371.7	377.7	382.2	382.2
80°	245.3	267.1	288.2	305.5	322.0	334.8	346.1	355.9	361.9	366.4	366.4
82.5°	230.2	251.3	271.6	288.9	305.5	319.8	331.1	340.1	346.9	349.9	350.6
85°	212.9	236.3	255.1	273.9	289.7	303.2	314.5	324.3	330.3	333.3	334.8
87.5°	198.6	221.2	241.5	258.1	273.9	287.4	300.2	308.5	314.5	318.3	319.8
90°	185.1	206.9	227.2	243.8	260.3	273.1	285.2	293.4	300.2	303.2	304.7
92.5°	173.1	194.9	214.4	231.0	246.8	261.1	272.4	280.7	286.7	289.7	291.9
95°	161.8	182.8	201.6	219.7	234.8	247.5	259.6	267.9	274.6	276.9	279.1
97.5°	150.5	170.8	189.6	206.9	222.7	234.8	246.0	254.3	259.6	263.3	265.6
100°	140.7	160.3	178.3	194.9	209.9	221.2	233.3	240.8	246.0	249.1	252.1
102.5°	130.2	149.7	167.0	182.8	198.6	209.2	220.5	228.0	232.5	237.8	237.8
105°	121.1	139.2	156.5	171.6	185.1	197.9	207.7	215.2	220.5	224.2	224.2
107.5°	111.4	129.4	146.0	161.8	174.6	186.6	195.6	202.4	208.4	210.7	212.9
110°	103.8	119.6	136.2	151.2	163.3	174.6	183.6	191.1	196.4	198.6	200.1

TEST NUMBER: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	94.8	111.4	126.4	140.7	152.7	163.3	172.3	178.3	183.6	186.6	187.4
115°	87.3	103.1	116.6	130.2	143.0	152.0	160.3	166.3	171.6	173.8	175.3
117.5°	80.5	94.8	108.3	119.6	131.7	141.5	149.7	155.0	159.5	162.5	164.0
120°	73.7	87.3	99.3	110.6	121.9	130.9	138.4	143.7	149.0	151.2	151.2
122.5°	67.0	79.8	91.0	101.6	112.1	120.4	128.7	133.2	137.7	140.0	140.0
125°	60.9	73.0	83.5	93.3	103.1	110.6	117.4	122.6	127.2	128.7	128.7
127.5°	54.9	66.2	76.0	85.0	93.3	100.8	107.6	112.9	116.6	118.1	118.1
130°	49.7	59.4	68.5	77.5	85.8	91.8	98.6	103.1	105.3	107.6	108.3
132.5°	44.4	53.4	61.7	69.2	77.5	83.5	88.8	93.3	95.6	97.8	98.6
135°	39.1	47.4	54.9	62.5	69.2	75.2	79.8	83.5	86.5	88.0	88.8
137.5°	33.1	42.1	48.9	54.9	62.5	67.0	72.2	74.5	77.5	79.0	79.0
140°	27.8	34.6	42.1	48.2	54.2	58.7	63.2	67.0	69.2	70.0	70.0
142.5°	22.6	28.6	34.6	42.1	47.4	51.2	55.7	58.7	60.2	60.9	61.7
145°	18.1	22.6	27.8	34.6	40.6	45.1	47.4	50.4	51.9	52.7	53.4
147.5°	13.5	18.1	22.6	27.1	33.1	37.6	39.9	42.9	44.4	45.1	45.1
150°	10.5	13.5	16.6	21.1	25.6	30.8	33.9	36.1	36.9	37.6	37.6
152.5°	7.5	10.5	12.8	15.8	18.8	23.3	27.8	29.3	30.1	30.8	30.8
155°	5.3	7.5	9.0	11.3	13.5	17.3	21.1	23.3	24.1	24.8	24.8
157.5°	3.8	5.3	6.0	8.3	9.8	11.3	14.3	18.1	18.8	18.8	18.8
160°	2.3	3.0	3.8	5.3	6.0	7.5	9.0	11.3	13.5	13.5	13.5
162.5°	1.5	2.3	2.3	3.0	3.0	4.5	5.3	6.0	8.3	9.0	9.0
165°	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.8	4.5	4.5
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: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	711.8	713.3	712.5	712.5	712.5	714.1	712.5	705.8	707.3	708.8	710.3
5°	711.0	711.8	711.8	711.0	711.0	712.5	711.0	704.3	705.8	707.3	708.0
7.5°	708.0	708.8	708.8	708.8	708.0	709.5	707.3	701.3	701.3	702.8	703.5
10°	704.3	705.8	705.0	704.3	704.3	704.3	702.8	696.0	696.0	696.7	697.5
12.5°	699.8	699.8	699.8	699.0	698.3	698.3	696.7	690.0	689.2	690.7	690.0
15°	693.7	695.2	693.7	693.0	691.5	691.5	689.2	682.4	680.9	681.7	680.9
17.5°	688.5	689.2	687.7	686.2	684.7	684.0	681.7	674.2	671.9	672.7	671.2
20°	683.2	683.2	681.7	680.2	677.9	675.7	672.7	665.1	661.4	661.4	658.4
22.5°	676.4	676.4	674.9	672.7	670.4	667.4	664.4	656.9	650.8	649.3	647.1
25°	668.9	668.2	667.4	665.1	660.6	657.6	654.6	646.3	639.6	636.6	632.8
27.5°	659.9	659.9	657.6	655.4	650.8	647.1	643.3	635.8	626.8	623.0	617.7
30°	650.1	650.1	647.8	644.8	640.3	635.8	631.3	622.3	613.2	608.0	601.9
32.5°	640.3	639.6	637.3	634.3	629.8	623.0	619.2	610.2	599.7	593.7	585.4
35°	628.3	627.5	625.3	621.5	615.5	610.2	604.2	595.9	583.9	576.4	567.3
37.5°	616.2	615.5	614.0	608.7	602.7	596.7	589.1	580.9	569.6	559.8	550.8
40°	604.2	603.4	600.4	596.7	589.1	581.6	574.1	565.8	553.8	542.5	532.7
42.5°	591.4	590.7	586.9	582.4	574.1	566.6	557.5	548.5	536.5	522.9	513.2
45°	578.6	577.1	573.3	568.1	559.1	550.8	541.7	531.2	519.2	506.4	493.6
47.5°	565.1	562.8	559.1	551.5	544.0	535.0	524.4	513.2	501.1	486.8	473.3
50°	550.0	548.5	544.0	537.2	528.2	519.2	507.1	495.8	481.6	468.0	451.5
52.5°	535.7	532.7	529.0	521.4	512.4	502.6	489.8	476.3	462.0	449.2	431.9
55°	520.7	519.2	513.9	507.9	496.6	485.3	473.3	459.0	443.2	428.1	411.6
57.5°	506.4	503.4	498.9	490.6	480.8	469.5	456.7	441.7	424.4	408.6	390.5
60°	492.1	487.6	482.3	474.8	464.2	452.2	438.7	422.9	405.6	388.3	369.4
62.5°	476.3	472.5	466.5	459.0	448.4	435.7	421.4	404.8	388.3	370.2	349.9
65°	460.5	456.7	450.7	443.2	432.6	418.3	403.3	386.7	367.9	350.6	328.8
67.5°	444.7	440.9	434.1	425.9	415.3	401.8	386.0	368.7	349.9	331.1	308.5
70°	428.9	424.4	418.3	409.3	398.8	384.5	368.7	350.6	331.8	311.5	288.9
72.5°	413.1	409.3	401.8	393.5	382.2	367.9	352.1	334.1	314.5	293.4	270.9
75°	397.3	392.8	387.5	377.7	365.7	352.1	335.6	317.5	296.5	276.1	252.8
77.5°	381.5	377.7	370.9	361.2	349.9	335.6	319.0	301.0	279.9	258.8	234.0
80°	365.7	361.2	355.9	346.9	334.1	319.8	302.5	284.4	263.3	241.5	216.7
82.5°	349.9	345.4	339.3	330.3	318.3	304.0	287.4	267.9	246.8	224.2	200.9
85°	334.1	330.3	323.5	314.5	301.7	287.4	270.9	253.6	231.0	208.4	185.1
87.5°	318.3	314.5	307.7	298.7	286.7	272.4	255.8	237.8	215.9	194.9	169.3
90°	303.2	300.2	293.4	284.4	272.4	258.1	243.0	223.5	202.4	181.3	157.3
92.5°	289.7	286.7	280.7	271.6	261.1	245.3	230.2	211.4	190.4	168.5	145.2
95°	277.6	273.9	267.9	259.6	246.8	233.3	218.2	199.4	179.1	157.3	134.7
97.5°	264.1	260.3	254.3	245.3	234.8	220.5	205.4	187.4	167.0	146.7	124.2
100°	250.6	246.8	240.0	232.5	222.0	207.7	193.4	175.3	156.5	136.9	115.1
102.5°	237.0	233.3	227.2	219.7	209.2	196.4	182.1	164.8	146.0	126.4	106.1
105°	224.2	220.5	214.4	206.9	197.1	184.3	169.3	154.2	136.2	117.4	97.8
107.5°	211.4	207.7	202.4	194.9	185.1	173.1	158.8	143.0	126.4	108.3	89.5
110°	198.6	195.6	189.6	182.8	173.1	161.0	148.2	133.2	116.6	100.1	82.0

TEST NUMBER: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	186.6	183.6	177.6	170.0	161.8	150.5	137.7	123.4	107.6	91.8	74.5
115°	174.6	170.8	165.5	158.8	150.5	140.0	127.9	115.1	99.3	84.3	68.5
117.5°	162.5	159.5	154.2	147.5	140.0	129.4	118.1	106.1	91.0	76.7	62.5
120°	150.5	148.2	143.0	136.9	129.4	119.6	109.1	97.1	83.5	70.0	56.4
122.5°	139.2	136.9	131.7	126.4	118.9	109.9	100.1	88.8	76.7	64.0	51.9
125°	128.7	125.7	121.1	115.9	109.1	100.8	91.0	80.5	69.2	57.9	46.7
127.5°	117.4	115.1	112.1	106.1	99.3	91.8	82.8	73.7	63.2	52.7	42.1
130°	108.3	105.3	101.6	97.1	91.0	83.5	75.2	66.2	57.2	47.4	36.9
132.5°	97.8	94.8	91.8	87.3	82.0	75.2	67.7	59.4	51.2	42.1	33.1
135°	88.0	85.8	82.8	78.3	73.0	67.7	60.2	52.7	45.1	36.9	29.3
137.5°	79.0	76.7	73.7	70.7	65.5	60.2	53.4	46.7	39.9	32.4	25.6
140°	70.0	68.5	65.5	62.5	57.9	52.7	46.7	40.6	34.6	27.8	21.8
142.5°	60.9	59.4	57.2	54.2	50.4	45.9	40.6	35.4	29.3	24.1	18.8
145°	52.7	51.9	49.7	46.7	43.6	39.1	34.6	30.1	24.8	20.3	15.0
147.5°	44.4	43.6	42.1	39.9	36.9	33.1	29.3	24.8	21.1	16.6	12.0
150°	36.9	36.1	35.4	32.4	30.8	27.1	24.1	20.3	17.3	12.8	9.8
152.5°	30.1	30.1	28.6	26.3	24.8	21.8	19.6	16.6	13.5	10.5	7.5
155°	24.1	23.3	22.6	21.1	19.6	17.3	15.0	12.8	10.5	7.5	5.3
157.5°	18.8	18.1	17.3	15.8	14.3	13.5	11.3	9.0	6.8	5.3	3.8
160°	13.5	12.8	12.0	11.3	10.5	9.0	7.5	6.0	4.5	3.0	2.3
162.5°	9.0	8.3	8.3	7.5	6.8	5.3	4.5	3.8	3.0	2.3	1.5
165°	4.5	4.5	3.8	3.8	3.0	2.3	2.3	2.3	1.5	1.5	0.8
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: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	709.5	709.5	712.5	711.8	709.5	714.1	719.3
5°	707.3	707.3	709.5	709.5	707.3	711.8	716.3
7.5°	703.5	702.8	705.0	705.0	702.0	705.8	711.0
10°	696.7	696.0	698.3	698.3	695.2	699.0	703.5
12.5°	689.2	687.7	690.0	689.2	686.2	690.0	694.5
15°	679.4	678.7	680.2	678.7	675.7	679.4	684.0
17.5°	669.7	667.4	668.2	668.2	662.9	666.6	670.4
20°	656.9	653.9	654.6	653.9	650.1	652.4	656.9
22.5°	644.1	639.6	639.6	638.8	634.3	637.3	641.1
25°	628.3	623.0	623.0	622.3	617.0	619.2	623.0
27.5°	612.5	607.2	604.9	604.2	598.9	598.9	604.2
30°	595.9	588.4	586.9	584.6	579.4	579.4	583.9
32.5°	580.1	569.6	566.6	563.6	558.3	557.5	562.8
35°	559.1	550.8	545.5	542.5	536.5	535.0	539.5
37.5°	541.7	531.2	523.7	519.9	513.9	511.6	517.7
40°	522.9	511.6	501.9	499.6	490.6	487.6	492.8
42.5°	501.9	489.8	480.0	475.5	468.8	465.8	466.5
45°	480.8	468.0	457.5	451.5	444.7	439.4	442.4
47.5°	459.0	447.7	434.9	425.9	417.6	413.8	415.3
50°	437.2	423.6	411.6	401.8	392.0	387.5	390.5
52.5°	415.3	401.0	387.5	377.0	365.7	361.2	361.9
55°	394.3	379.2	363.4	352.1	341.6	334.8	333.3
57.5°	373.2	356.6	340.1	327.3	313.8	307.7	305.5
60°	350.6	333.3	316.0	301.0	286.7	279.9	276.9
62.5°	329.6	310.8	291.2	275.4	261.1	252.1	249.8
65°	309.2	287.4	267.9	249.8	234.0	224.2	221.2
67.5°	287.4	264.9	243.8	224.2	209.2	196.4	194.9
70°	267.1	243.0	219.7	199.4	182.8	170.0	164.0
72.5°	246.8	222.0	197.9	176.1	155.0	143.0	138.4
75°	227.2	201.6	176.1	153.5	130.2	115.9	111.4
77.5°	209.2	182.8	155.8	130.9	109.1	91.0	85.0
80°	191.9	164.8	136.2	110.6	87.3	67.7	60.9
82.5°	173.8	148.2	118.9	91.8	67.7	47.4	39.1
85°	158.0	132.4	103.1	76.0	51.9	30.1	21.1
87.5°	145.2	117.4	91.0	64.0	39.1	17.3	6.0
90°	132.4	105.3	79.0	52.7	29.3	9.8	0.8
92.5°	121.1	95.6	69.2	45.1	22.6	6.8	0.8
95°	110.6	85.8	60.9	37.6	18.1	4.5	0.8
97.5°	100.8	77.5	54.2	32.4	15.0	3.8	0.8
100°	92.5	70.0	48.2	28.6	12.8	3.0	0.8
102.5°	84.3	63.2	42.9	24.8	11.3	2.3	0.8
105°	77.5	57.2	38.4	22.6	9.8	2.3	0.8
107.5°	70.7	51.9	34.6	19.6	8.3	1.5	0.8
110°	64.0	47.4	30.8	17.3	7.5	1.5	0.8

TEST NUMBER: P1212999

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	58.7	42.9	27.8	15.8	6.0	1.5	0.8
115°	53.4	38.4	24.8	13.5	5.3	0.8	0.8
117.5°	48.2	34.6	21.8	12.0	4.5	0.8	0.8
120°	43.6	30.8	19.6	10.5	3.8	0.8	0.8
122.5°	39.1	27.8	17.3	9.0	3.0	0.8	0.8
125°	35.4	24.8	15.0	7.5	2.3	0.8	0.8
127.5°	31.6	21.8	13.5	6.8	2.3	0.8	0.8
130°	27.8	19.6	11.3	5.3	1.5	0.8	0.8
132.5°	24.8	16.6	9.8	4.5	1.5	0.8	0.8
135°	21.8	14.3	8.3	3.0	1.5	0.8	0.8
137.5°	18.8	12.0	6.8	2.3	0.8	0.8	0.8
140°	15.8	10.5	5.3	2.3	0.8	0.8	0.8
142.5°	13.5	8.3	3.8	1.5	0.8	0.8	0.8
145°	10.5	6.8	3.0	1.5	0.8	0.8	0.8
147.5°	8.3	5.3	2.3	1.5	0.8	0.8	0.8
150°	6.0	3.8	2.3	0.8	0.8	0.8	0.8
152.5°	4.5	3.0	1.5	0.8	0.8	0.8	0.8
155°	3.0	2.3	1.5	0.8	0.8	0.8	0.8
157.5°	2.3	1.5	0.8	0.8	0.8	0.8	0.8
160°	1.5	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)