

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: P1213410

Luminaire Tested: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213410
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: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

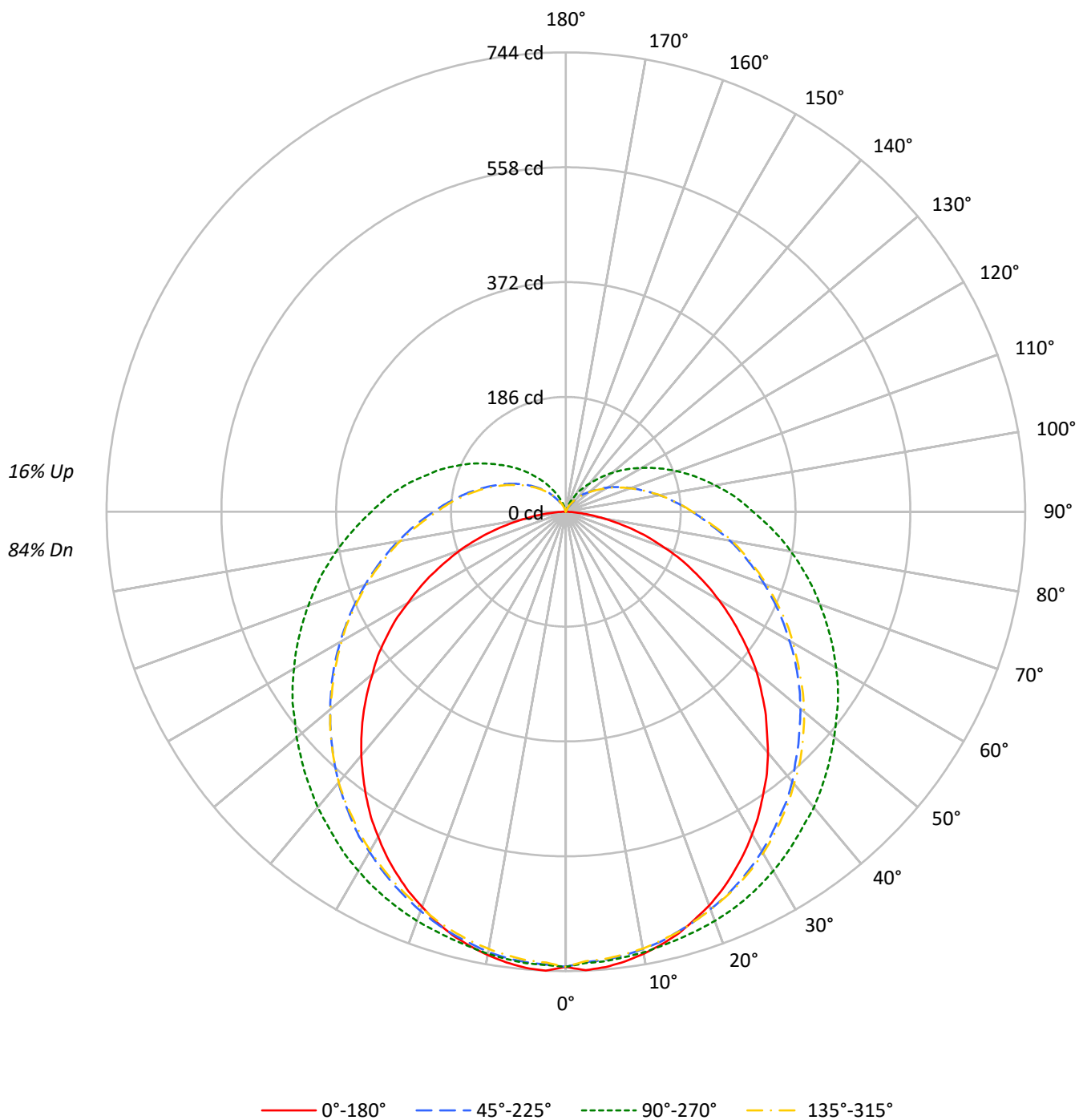
Lumens per Lamp: N/A
Luminaire Lumens: 3202.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 31
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	0
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°	5956	5956	5956	5956
5°	5987	5740	6000	5764
10°	5932	5577	5951	5594
15°	5863	5437	5889	5443
20°	5771	5335	5790	5335
25°	5657	5244	5691	5239
30°	5530	5151	5573	5151
35°	5381	5065	5441	5071
40°	5234	5015	5298	5015
45°	5066	4961	5143	4967
50°	4891	4929	4956	4943
55°	4645	4934	4792	4956
60°	4387	4949	4529	4979
65°	4097	4999	4278	5049
70°	3688	5091	3975	5163
75°	3218	5258	3520	5358
80°	2490	5505	2826	5631
85°	1489	5899	1858	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 6779 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	2.2
10°-20°	200.7	6.3
20°-30°	307.6	9.6
30°-40°	379.5	11.9
40°-50°	411.8	12.9
50°-60°	405.9	12.7
60°-70°	366.9	11.5
70°-80°	305.7	9.5
80°-90°	236.8	7.4
90°-100°	179.6	5.6
100°-110°	132.9	4.2
110°-120°	92.4	2.9
120°-130°	59.0	1.8
130°-140°	33.1	1.0
140°-150°	15.1	0.5
150°-160°	4.7	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	578.1	18.1
0°-40°	957.7	29.9
0°-60°	1775.3	55.4
0°-90°	2684.7	83.8
90°-120°	404.9	12.6
90°-150°	512.1	16.0
90°-180°	517.0	16.1
0°-180°	3202.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	737	737	737	737	737	
5°	740	731	742	734	740	70
15°	707	715	710	716	707	199
25°	644	691	648	690	644	297
35°	557	648	564	649	557	349
45°	457	597	464	598	457	352
55°	344	538	355	540	344	308
65°	229	472	239	477	229	227
75°	115	404	126	412	115	122
85°	22	337	27	346	22	26
90°	1	303	2	315	1	1
95°	1	275	1	288	1	1
105°	1	218	1	232	1	1
115°	1	166	1	181	1	1
125°	1	120	1	133	1	1
135°	1	78	1	92	1	1
145°	1	45	1	55	1	1
155°	1	19	1	26	1	0
165°	1	3	1	5	1	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°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	743.2	743.2	742.4	740.9	741.7	744.0	742.4	738.6	736.2	730.0	731.6
5°	740.1	740.1	739.3	737.8	738.6	741.7	740.1	737.0	733.9	728.5	730.8
7.5°	734.7	734.7	733.9	732.3	733.9	737.0	735.5	732.3	730.0	724.6	726.9
10°	726.9	727.7	726.9	724.6	727.7	730.8	730.0	726.1	723.8	719.1	721.5
12.5°	717.6	718.3	717.6	716.8	718.3	723.0	721.5	718.3	716.8	712.9	715.2
15°	706.7	707.5	705.9	705.9	707.5	712.1	712.1	709.0	707.5	703.6	708.2
17.5°	692.7	693.5	692.7	692.7	694.2	698.9	699.7	698.1	696.6	695.0	699.7
20°	678.7	677.9	677.9	677.1	680.3	687.3	686.5	686.5	684.9	684.9	690.4
22.5°	662.4	662.4	661.6	661.6	665.5	671.7	671.7	673.3	671.7	674.8	679.5
25°	643.7	644.5	643.7	645.3	648.4	655.4	656.2	658.5	659.3	662.4	667.8
27.5°	624.3	625.1	624.3	625.8	631.3	636.7	640.6	643.7	644.5	649.2	656.2
30°	603.3	603.3	604.1	605.6	611.8	620.4	623.5	627.4	627.4	635.2	642.2
32.5°	581.5	581.5	581.5	584.6	591.6	601.7	605.6	610.3	611.8	619.6	627.4
35°	557.4	558.2	558.2	560.5	569.9	580.0	585.4	590.8	594.0	603.3	611.1
37.5°	534.9	536.4	534.1	537.2	550.4	559.0	565.2	570.6	576.1	588.5	594.7
40°	509.2	510.8	510.0	516.2	527.1	538.0	545.0	550.4	558.2	570.6	577.6
42.5°	482.0	483.6	485.1	492.1	503.8	514.7	523.2	530.2	539.5	550.4	562.1
45°	457.1	457.1	459.5	468.0	480.5	492.1	502.2	510.0	520.9	532.5	544.2
47.5°	429.1	429.9	433.0	443.1	456.4	470.3	479.7	489.8	501.4	513.9	527.1
50°	403.5	403.5	408.2	419.0	431.5	447.0	457.1	468.8	481.2	496.0	509.2
52.5°	373.9	375.5	382.5	392.6	408.9	422.9	434.6	447.0	461.8	477.3	492.1
55°	344.4	347.5	353.0	366.9	384.1	397.3	411.3	426.8	440.8	457.9	475.0
57.5°	315.6	318.0	326.5	340.5	358.4	374.7	389.5	404.3	421.4	438.5	456.4
60°	286.1	289.2	299.3	313.3	332.7	349.8	366.9	382.5	400.4	418.3	436.9
62.5°	258.1	260.4	272.1	288.4	307.9	326.5	343.6	362.3	381.7	398.8	417.5
65°	228.6	232.5	245.7	260.4	283.0	301.6	321.1	341.3	361.5	380.2	398.0
67.5°	201.4	203.7	217.7	234.8	257.3	278.3	298.5	320.3	341.3	360.7	378.6
70°	169.5	177.3	191.2	209.1	233.2	255.0	276.8	299.3	321.9	342.1	359.2
72.5°	143.0	149.3	164.8	184.3	207.6	233.2	255.8	279.9	302.4	323.4	341.3
75°	115.1	121.3	139.2	160.9	185.0	212.2	235.6	260.4	283.8	304.8	323.4
77.5°	87.8	95.6	115.1	137.6	164.0	192.0	216.1	241.0	265.1	287.7	306.3
80°	63.0	71.5	92.5	118.2	143.8	171.8	198.2	223.1	247.2	269.8	289.2
82.5°	40.4	49.8	72.3	98.0	125.2	153.2	180.4	205.2	229.3	251.9	272.1
85°	21.8	31.9	55.2	80.9	108.1	136.1	163.3	189.7	213.0	234.0	255.8
87.5°	6.2	18.7	41.2	66.9	94.8	120.5	146.9	173.4	196.7	219.2	238.7
90°	0.8	10.9	31.1	55.2	82.4	107.3	133.7	158.6	181.9	204.5	223.9
92.5°	0.8	7.0	24.1	45.9	70.7	96.4	122.8	146.9	168.7	191.2	210.7
95°	0.8	5.4	19.4	38.9	62.2	86.3	111.2	134.5	157.0	178.0	197.5
97.5°	0.8	3.9	15.5	33.4	54.4	77.0	101.1	124.4	146.2	166.4	184.3
100°	0.8	3.1	12.4	28.8	47.4	69.2	91.0	113.5	134.5	153.9	172.6
102.5°	0.8	2.3	10.9	24.1	42.0	61.4	82.4	103.4	123.6	142.3	160.9
105°	0.8	2.3	9.3	21.0	37.3	55.2	74.6	94.8	113.5	131.4	148.5
107.5°	0.8	1.6	7.8	17.9	32.7	49.8	67.6	87.1	104.2	121.3	137.6
110°	0.8	1.6	6.2	16.3	28.8	44.3	61.4	79.3	95.6	112.0	127.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.6	5.4	14.0	24.9	39.6	55.2	71.5	87.1	103.4	117.4
115°	0.8	1.6	4.7	12.4	23.3	34.2	49.8	64.5	80.1	94.8	108.1
117.5°	0.8	1.6	3.9	10.1	20.2	31.1	43.5	58.3	72.3	86.3	98.7
120°	0.8	1.6	3.1	9.3	17.9	28.0	38.9	52.1	65.3	78.5	91.7
122.5°	0.8	0.8	3.1	7.8	15.5	24.9	35.8	45.9	58.3	70.7	82.4
125°	0.8	0.8	3.1	7.0	13.2	22.5	31.9	41.2	52.1	63.0	73.1
127.5°	0.8	0.8	2.3	5.4	11.7	19.4	28.0	38.1	45.9	56.0	66.1
130°	0.8	0.8	2.3	4.7	10.1	16.3	24.9	33.4	42.8	49.8	58.3
132.5°	0.8	0.8	2.3	3.9	7.8	13.2	21.0	28.8	37.3	45.1	52.1
135°	0.8	0.8	1.6	3.1	6.2	10.9	17.1	24.1	32.7	40.4	47.4
137.5°	0.8	0.8	1.6	3.1	4.7	9.3	13.2	19.4	27.2	34.2	41.2
140°	0.8	0.8	1.6	2.3	3.9	7.0	10.9	15.5	21.8	28.0	35.8
142.5°	0.8	0.8	0.8	2.3	3.1	5.4	8.6	12.4	17.1	22.5	28.8
145°	0.8	0.8	0.8	2.3	3.1	3.9	7.0	10.1	13.2	17.1	22.5
147.5°	0.8	0.8	0.8	1.6	2.3	3.1	5.4	7.8	10.1	13.2	16.3
150°	0.8	0.8	0.8	1.6	2.3	3.1	3.9	5.4	7.8	10.9	13.2
152.5°	0.8	0.8	0.8	1.6	1.6	2.3	3.1	3.9	5.4	7.8	9.3
155°	0.8	0.8	0.8	0.8	1.6	2.3	3.1	3.1	3.9	5.4	7.0
157.5°	0.8	0.8	0.8	0.8	1.6	1.6	2.3	2.3	3.1	3.1	4.7
160°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.3	2.3	2.3	2.3
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.3	2.3
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
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°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	731.6	732.3	734.7	734.7	733.1	733.1	732.3	731.6	732.3	733.9	733.9
5°	730.0	730.8	733.1	733.9	732.3	731.6	731.6	730.8	731.6	733.1	733.1
7.5°	726.9	727.7	730.0	730.8	729.2	729.2	728.5	727.7	729.2	730.0	730.0
10°	722.2	723.0	726.1	726.9	726.1	725.3	725.3	724.6	725.3	726.9	726.9
12.5°	716.0	717.6	721.5	721.5	721.5	720.7	720.7	719.9	720.7	722.2	721.5
15°	709.0	712.1	715.2	716.8	716.8	716.8	716.0	715.2	716.8	717.6	716.8
17.5°	701.2	705.1	709.8	711.4	711.4	712.1	711.4	710.6	712.1	712.1	711.4
20°	693.5	697.4	702.0	703.6	705.1	705.9	705.9	705.1	705.9	706.7	705.9
22.5°	683.4	688.0	693.5	695.8	697.4	698.9	698.9	698.9	699.7	700.5	698.9
25°	672.5	677.9	684.1	686.5	689.6	690.4	691.1	691.1	691.9	692.7	690.4
27.5°	660.8	667.0	673.3	677.1	679.5	681.0	681.0	681.8	682.6	683.4	681.0
30°	646.8	656.2	661.6	664.7	667.8	670.1	670.9	671.7	672.5	673.3	670.9
32.5°	634.4	642.2	649.2	653.0	656.9	660.0	660.8	660.8	662.4	662.4	660.0
35°	619.6	628.9	635.9	639.8	644.5	646.8	648.4	648.4	649.9	649.9	647.6
37.5°	604.8	614.2	621.9	626.6	632.1	635.2	635.9	635.9	637.5	637.5	634.4
40°	589.3	599.4	608.0	613.4	618.1	621.9	622.7	625.1	625.1	624.3	621.2
42.5°	573.7	583.1	592.4	598.6	604.8	608.7	610.3	611.1	611.1	610.3	608.0
45°	556.6	567.5	576.1	583.9	590.1	594.0	596.3	597.1	597.1	595.5	593.2
47.5°	540.3	551.2	559.8	568.3	574.5	579.2	581.5	582.3	581.5	580.7	578.4
50°	523.2	535.7	544.2	552.8	559.0	562.9	566.7	567.5	566.7	566.0	561.3
52.5°	505.3	518.5	527.9	536.4	543.4	548.1	551.2	552.0	552.0	550.4	547.3
55°	487.5	499.1	510.8	520.1	527.9	532.5	536.4	538.0	536.4	534.9	531.0
57.5°	471.1	482.0	493.7	503.8	511.6	517.8	520.9	522.4	520.9	518.5	514.7
60°	451.7	463.4	476.6	485.9	494.4	500.7	502.2	505.3	503.8	501.4	497.6
62.5°	433.0	447.0	458.7	470.3	477.3	484.3	487.5	489.0	487.5	485.1	481.2
65°	413.6	429.1	440.8	452.5	460.2	467.2	471.1	471.9	470.3	468.0	464.1
67.5°	395.7	410.5	422.9	435.4	442.4	449.4	453.2	454.8	453.2	450.1	446.2
70°	377.8	392.6	407.4	416.7	425.3	433.0	435.4	437.7	436.1	433.0	428.4
72.5°	360.0	375.5	390.3	399.6	408.9	415.9	419.0	421.4	419.8	416.7	411.3
75°	341.3	357.6	372.4	382.5	391.8	398.8	401.9	404.3	402.7	399.6	393.4
77.5°	324.2	340.5	354.5	365.4	374.7	380.9	386.4	387.2	385.6	382.5	376.3
80°	306.3	322.6	337.4	348.3	357.6	363.8	367.7	370.1	368.5	365.4	359.2
82.5°	290.8	305.5	320.3	331.2	340.5	348.3	351.4	353.7	353.0	348.3	343.6
85°	273.7	290.8	302.4	314.1	323.4	331.2	333.5	336.6	335.9	332.0	325.7
87.5°	256.6	273.7	287.7	299.3	307.9	314.1	318.0	319.5	318.7	314.9	307.9
90°	242.6	258.1	272.1	284.5	291.5	298.5	302.4	303.2	303.2	298.5	293.1
92.5°	229.3	244.1	258.1	269.8	278.3	284.5	287.7	289.2	288.4	284.5	278.3
95°	214.6	230.9	244.1	255.8	264.3	270.5	273.7	275.2	274.4	270.5	264.3
97.5°	202.1	216.9	230.1	241.0	249.6	255.8	258.9	260.4	260.4	256.6	250.3
100°	189.7	204.5	216.9	227.8	235.6	241.8	244.9	245.7	244.9	241.8	235.6
102.5°	177.3	191.2	203.7	213.8	222.3	227.8	230.9	231.7	231.7	227.8	221.6
105°	164.8	178.8	190.5	201.4	208.4	213.8	216.1	218.5	217.7	214.6	208.4
107.5°	153.2	167.1	178.0	188.1	195.1	200.6	202.9	205.2	204.5	201.4	195.1
110°	142.3	155.5	165.6	175.7	181.9	187.4	191.2	192.0	190.5	187.4	181.9

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	132.2	143.8	153.9	163.3	170.3	174.1	177.3	178.8	177.3	174.1	170.3
115°	121.3	132.9	143.0	151.6	157.8	162.5	164.8	166.4	164.8	161.7	157.8
117.5°	111.2	122.1	132.2	140.7	146.2	150.0	152.4	153.9	152.4	150.0	146.2
120°	102.6	112.0	121.3	129.1	135.3	138.4	140.7	142.3	141.5	138.4	134.5
122.5°	92.5	102.6	111.2	118.9	124.4	127.5	129.1	130.6	129.8	127.5	123.6
125°	84.0	92.5	101.1	108.1	113.5	116.6	118.2	119.7	118.9	116.6	112.0
127.5°	74.6	84.0	91.0	98.0	101.8	106.5	107.3	108.8	108.1	105.7	101.8
130°	67.6	74.6	81.6	87.8	92.5	95.6	97.2	98.0	96.4	94.8	91.0
132.5°	59.1	66.9	73.1	78.5	81.6	84.7	86.3	87.1	87.1	84.7	81.6
135°	52.9	58.3	63.7	69.2	72.3	75.4	77.0	77.7	77.0	75.4	72.3
137.5°	47.4	52.1	56.0	60.6	64.5	66.1	67.6	67.6	66.9	66.1	63.7
140°	41.2	46.6	50.5	53.6	56.8	57.5	59.1	59.1	58.3	57.5	56.0
142.5°	35.0	39.6	43.5	47.4	49.8	51.3	52.1	52.9	52.1	51.3	49.0
145°	28.0	33.4	37.3	39.6	42.8	43.5	44.3	45.1	44.3	43.5	41.2
147.5°	21.8	26.4	30.3	33.4	35.8	36.5	37.3	38.1	37.3	35.8	35.0
150°	15.5	19.4	24.1	27.2	28.8	30.3	30.3	30.3	31.1	29.5	28.0
152.5°	12.4	14.0	17.1	20.2	22.5	23.3	24.1	24.1	23.3	23.3	21.8
155°	8.6	10.1	12.4	14.8	17.1	17.9	18.7	18.7	17.9	17.9	17.1
157.5°	5.4	7.0	8.6	10.1	12.4	13.2	14.0	14.0	14.0	13.2	12.4
160°	3.1	3.9	4.7	6.2	7.8	8.6	9.3	9.3	9.3	9.3	8.6
162.5°	2.3	2.3	2.3	3.1	3.9	4.7	5.4	5.4	5.4	5.4	4.7
165°	1.6	1.6	1.6	1.6	1.6	2.3	3.1	3.1	3.1	3.1	3.1
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: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	733.1	733.1	733.9	732.3	727.7	728.5	728.5	731.6	733.1	733.9	737.8
5°	731.6	731.6	733.1	730.8	726.9	726.9	726.9	730.0	730.8	732.3	735.5
7.5°	729.2	729.2	730.0	727.7	723.0	723.0	722.2	725.3	726.9	727.7	730.8
10°	725.3	725.3	726.1	723.8	718.3	718.3	717.6	719.9	720.7	722.2	724.6
12.5°	719.9	719.9	719.9	717.6	712.1	711.4	710.6	712.9	712.9	713.7	716.0
15°	715.2	713.7	713.7	711.4	705.9	704.4	702.8	703.6	705.1	704.4	705.9
17.5°	709.8	708.2	706.7	704.4	697.4	695.0	693.5	694.2	693.5	692.7	694.2
20°	703.6	701.2	700.5	696.6	689.6	685.7	682.6	681.0	681.8	679.5	680.3
22.5°	696.6	693.5	691.9	687.3	680.3	675.6	671.7	668.6	667.8	664.7	665.5
25°	688.0	684.1	681.8	677.9	670.1	664.7	660.0	655.4	653.0	649.2	648.4
27.5°	677.9	674.0	670.9	667.0	659.3	652.3	646.8	640.6	637.5	632.8	630.5
30°	667.8	663.2	658.5	655.4	646.8	639.0	630.5	625.1	620.4	614.9	611.1
32.5°	655.4	650.7	646.0	641.4	633.6	624.3	617.3	608.7	603.3	597.1	592.4
35°	642.9	636.7	632.1	625.8	618.8	608.0	599.4	590.8	583.9	576.9	571.4
37.5°	628.9	624.3	617.3	611.8	603.3	592.4	583.1	572.2	566.0	556.6	549.6
40°	615.7	610.3	603.3	596.3	587.7	575.3	565.2	552.8	545.8	534.9	527.9
42.5°	602.5	594.7	587.7	580.0	570.6	559.0	546.5	534.1	524.8	514.7	504.6
45°	587.7	579.2	570.6	562.1	552.8	541.1	527.9	514.7	503.0	493.7	481.2
47.5°	572.2	563.6	553.5	544.2	534.1	522.4	508.4	494.4	482.0	471.1	457.9
50°	556.6	548.1	537.2	527.1	515.4	503.8	489.0	472.7	459.5	445.5	433.8
52.5°	540.3	531.8	521.7	508.4	496.0	484.3	468.8	451.7	436.9	425.3	410.5
55°	524.0	515.4	503.8	490.6	478.1	463.4	448.6	431.5	415.1	401.2	386.4
57.5°	506.9	499.1	485.9	475.0	459.5	443.9	428.4	412.0	394.2	377.8	360.7
60°	489.8	481.2	468.8	455.6	440.0	424.5	408.2	390.3	371.6	353.7	338.2
62.5°	474.2	463.4	451.7	437.7	421.4	406.6	387.9	368.5	349.8	331.2	312.5
65°	456.4	444.7	433.8	419.8	402.7	385.6	366.9	347.5	327.3	307.1	288.4
67.5°	438.5	426.8	415.1	401.2	383.3	365.4	346.0	326.5	304.0	284.5	262.8
70°	420.6	411.3	396.5	381.7	365.4	346.0	326.5	305.5	282.2	261.2	238.7
72.5°	402.7	393.4	378.6	363.1	347.5	327.3	306.3	285.3	263.5	239.4	215.3
75°	385.6	373.9	360.7	346.0	329.6	308.6	287.7	265.9	240.2	217.7	192.8
77.5°	369.3	358.4	345.2	328.9	311.0	290.8	269.0	246.4	220.8	196.7	169.5
80°	351.4	340.5	327.3	311.0	293.1	273.7	250.3	227.0	202.1	175.7	147.7
82.5°	334.3	324.2	309.4	294.6	275.2	255.8	232.5	209.1	182.7	157.0	129.8
85°	316.4	306.3	292.3	276.8	258.1	237.1	215.3	192.0	165.6	139.2	112.0
87.5°	300.9	289.2	275.2	259.7	241.0	220.8	199.8	174.9	149.3	123.6	95.6
90°	284.5	273.7	259.7	244.1	225.5	205.2	183.5	160.2	135.3	108.8	82.4
92.5°	270.5	258.9	245.7	230.1	211.5	192.0	170.3	146.9	122.8	97.2	71.5
95°	256.6	244.9	232.5	216.9	198.2	178.8	157.0	134.5	111.2	86.3	62.2
97.5°	241.0	230.9	218.5	203.7	185.0	166.4	145.4	123.6	101.1	77.0	54.4
100°	228.6	216.9	205.2	189.7	172.6	154.7	133.7	112.7	91.0	68.4	47.4
102.5°	214.6	203.7	192.0	177.3	160.2	142.3	122.8	102.6	82.4	61.4	41.2
105°	201.4	191.2	178.8	164.8	148.5	131.4	112.7	94.1	74.6	54.4	36.5
107.5°	188.1	178.0	166.4	153.2	137.6	120.5	103.4	84.7	66.9	49.0	32.7
110°	174.9	165.6	154.7	141.5	126.7	111.2	94.8	77.7	59.9	43.5	28.8

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	163.3	153.9	143.0	130.6	116.6	101.8	86.3	70.0	53.6	38.9	24.9
115°	151.6	143.0	132.2	121.3	107.3	93.3	78.5	63.0	48.2	35.0	21.8
117.5°	139.9	131.4	121.3	110.4	98.0	84.7	70.7	56.0	43.5	31.1	19.4
120°	128.3	120.5	111.2	101.1	90.2	77.0	63.0	50.5	38.9	27.2	17.1
122.5°	117.4	110.4	101.8	92.5	80.9	68.4	56.8	45.9	35.0	24.1	14.0
125°	107.3	100.3	92.5	83.2	72.3	61.4	51.3	41.2	30.3	21.0	11.7
127.5°	97.2	90.2	82.4	73.9	65.3	55.2	45.9	36.5	27.2	18.7	10.1
130°	87.1	80.9	73.9	66.9	58.3	49.0	41.2	31.9	23.3	14.8	8.6
132.5°	77.0	72.3	66.1	59.1	51.3	44.3	35.8	28.0	20.2	13.2	7.8
135°	68.4	63.7	58.3	52.1	45.9	38.9	31.1	24.1	17.1	10.9	6.2
137.5°	60.6	56.8	51.3	45.9	40.4	33.4	27.2	20.2	14.0	9.3	4.7
140°	53.6	49.8	45.1	39.6	35.0	28.8	22.5	16.3	12.4	7.8	3.9
142.5°	46.6	42.8	38.9	34.2	29.5	24.1	18.7	14.0	10.1	6.2	3.9
145°	39.6	36.5	32.7	28.8	24.1	19.4	15.5	11.7	7.8	4.7	3.1
147.5°	32.7	30.3	26.4	23.3	19.4	15.5	12.4	9.3	6.2	3.9	2.3
150°	26.4	24.1	21.0	17.9	15.5	12.4	10.1	7.0	4.7	3.9	2.3
152.5°	20.2	18.7	16.3	14.8	12.4	9.3	7.0	5.4	3.9	3.1	1.6
155°	16.3	14.8	13.2	10.9	9.3	7.0	5.4	3.9	3.1	2.3	1.6
157.5°	11.7	10.9	9.3	7.8	6.2	4.7	3.9	3.9	2.3	1.6	0.8
160°	7.8	7.0	6.2	4.7	3.9	3.9	3.1	2.3	1.6	1.6	0.8
162.5°	4.7	3.9	3.9	3.9	3.1	3.1	2.3	1.6	1.6	0.8	0.8
165°	3.1	3.1	3.1	2.3	2.3	2.3	1.6	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: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	737.8	735.5	738.6	744.0	744.8	744.0	742.4	744.8	747.9	747.1	741.7
5°	736.2	733.1	736.2	741.7	741.7	740.9	740.1	742.4	745.6	744.8	740.1
7.5°	731.6	728.5	731.6	736.2	737.0	735.5	735.5	737.8	740.9	740.1	736.2
10°	725.3	722.2	723.8	729.2	730.8	729.2	729.2	731.6	735.5	734.7	730.0
12.5°	716.0	713.7	715.2	719.9	721.5	720.7	719.9	723.0	726.9	726.9	722.2
15°	705.9	702.8	704.4	709.8	710.6	709.0	709.8	712.1	716.8	716.8	712.9
17.5°	694.2	690.4	692.7	696.6	697.4	697.4	697.4	700.5	705.9	705.1	702.0
20°	681.0	675.6	677.1	681.0	682.6	682.6	682.6	688.0	691.9	691.9	688.8
22.5°	665.5	661.6	661.6	665.5	667.8	667.0	667.0	671.7	677.1	676.4	676.4
25°	647.6	644.5	642.9	647.6	648.4	649.2	650.7	655.4	661.6	661.6	662.4
27.5°	628.9	625.8	625.1	628.9	629.7	630.5	632.1	637.5	643.7	644.5	646.0
30°	611.1	606.4	604.8	608.0	609.5	610.3	610.3	618.8	624.3	626.6	629.7
32.5°	590.1	585.4	581.5	587.0	587.7	589.3	590.1	598.6	604.8	608.7	613.4
35°	569.1	561.3	559.8	563.6	565.2	566.0	567.5	576.9	585.4	588.5	594.7
37.5°	545.8	540.3	535.7	539.5	541.1	541.9	546.5	555.1	563.6	568.3	574.5
40°	524.0	517.0	513.1	515.4	517.0	517.8	523.2	532.5	542.6	548.1	555.9
42.5°	499.9	490.6	487.5	489.8	490.6	492.9	497.6	510.0	520.1	527.9	534.1
45°	475.8	468.8	461.8	464.1	464.9	466.5	473.5	486.7	497.6	506.9	513.9
47.5°	450.9	442.4	435.4	436.9	440.0	440.8	448.6	464.1	474.2	484.3	493.7
50°	426.0	414.4	408.9	408.9	410.5	414.4	424.5	440.0	450.9	462.6	472.7
52.5°	400.4	389.5	383.3	384.1	385.6	390.3	399.6	415.1	427.6	440.0	452.5
55°	374.7	363.1	356.8	355.3	356.8	363.1	373.9	390.3	402.7	417.5	430.7
57.5°	349.1	335.1	329.6	327.3	328.9	336.6	347.5	364.6	380.2	394.2	409.7
60°	321.1	310.2	300.9	295.4	299.3	309.4	321.1	339.0	355.3	370.8	387.9
62.5°	297.0	283.0	272.9	267.4	271.3	279.9	296.2	313.3	331.2	349.1	366.2
65°	269.8	255.8	244.1	238.7	242.6	252.7	269.0	287.7	307.1	325.0	345.2
67.5°	243.3	228.6	214.6	209.1	213.8	224.7	242.6	263.5	284.5	303.2	325.0
70°	217.7	201.4	186.6	182.7	185.8	200.6	217.7	238.7	260.4	282.2	304.8
72.5°	194.4	174.1	158.6	153.9	157.8	174.1	193.6	215.3	238.7	262.0	286.1
75°	167.1	148.5	131.4	125.9	130.6	145.4	169.5	192.8	217.7	242.6	265.1
77.5°	145.4	123.6	105.7	97.2	105.0	123.6	146.9	171.8	197.5	223.1	248.8
80°	122.8	100.3	80.9	71.5	80.1	100.3	123.6	150.8	179.6	205.2	228.6
82.5°	102.6	78.5	58.3	48.2	57.5	80.1	105.7	132.9	160.9	186.6	213.8
85°	84.0	59.1	38.1	27.2	40.4	60.6	87.8	115.8	144.6	171.0	197.5
87.5°	68.4	44.3	23.3	11.7	24.9	47.4	73.1	101.1	129.8	156.3	181.1
90°	56.0	31.9	12.4	1.6	14.8	35.8	60.6	87.8	115.1	142.3	167.1
92.5°	45.9	24.1	7.0	0.8	9.3	28.8	52.1	77.7	104.2	130.6	154.7
95°	38.1	18.7	4.7	0.8	7.0	22.5	44.3	69.2	94.1	119.7	143.8
97.5°	32.7	15.5	3.9	0.8	5.4	19.4	38.1	61.4	85.5	109.6	132.9
100°	28.0	12.4	3.1	0.8	4.7	16.3	33.4	54.4	77.0	100.3	122.8
102.5°	24.1	10.1	2.3	0.8	3.9	14.0	29.5	49.0	69.2	91.7	113.5
105°	21.0	8.6	2.3	0.8	3.1	12.4	26.4	43.5	63.7	84.0	105.0
107.5°	17.9	7.0	1.6	0.8	2.3	10.1	23.3	39.6	57.5	77.0	96.4
110°	15.5	6.2	1.6	0.8	2.3	9.3	20.2	35.8	52.1	70.0	88.6

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.2	4.7	1.6	0.8	1.6	7.8	17.9	31.9	47.4	63.7	81.6
115°	11.7	3.9	0.8	0.8	1.6	7.0	16.3	28.8	42.8	58.3	74.6
117.5°	9.3	3.1	0.8	0.8	0.8	5.4	14.0	25.7	38.9	53.6	68.4
120°	7.8	3.1	0.8	0.8	0.8	4.7	12.4	22.5	35.0	48.2	62.2
122.5°	7.0	2.3	0.8	0.8	0.8	3.9	10.9	20.2	31.1	43.5	56.8
125°	6.2	2.3	0.8	0.8	0.8	3.1	9.3	17.9	28.0	38.9	51.3
127.5°	4.7	2.3	0.8	0.8	0.8	2.3	8.6	15.5	24.9	35.0	45.9
130°	3.9	1.6	0.8	0.8	0.8	2.3	7.0	14.0	21.8	31.1	41.2
132.5°	3.1	1.6	0.8	0.8	0.8	1.6	5.4	10.9	18.7	27.2	36.5
135°	3.1	1.6	0.8	0.8	0.8	1.6	3.9	9.3	15.5	23.3	31.1
137.5°	3.1	0.8	0.8	0.8	0.8	1.6	3.1	7.0	12.4	18.7	25.7
140°	2.3	0.8	0.8	0.8	0.8	0.8	2.3	5.4	10.1	15.5	21.8
142.5°	2.3	0.8	0.8	0.8	0.8	0.8	2.3	3.9	7.8	12.4	17.1
145°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	3.1	6.2	9.3	14.0
147.5°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.3	4.7	7.8	10.9
150°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.3	3.1	5.4	8.6
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.3	3.9	5.4
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.3	3.1	3.9
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.3	3.1
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.3
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
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: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	739.3	733.9	735.5	734.7	736.2	738.6	738.6	737.8	737.8	736.2	734.7
5°	737.8	732.3	734.7	733.9	735.5	737.8	737.8	737.0	737.0	734.7	733.9
7.5°	733.1	729.2	730.8	730.8	732.3	734.7	734.7	733.9	733.9	731.6	730.8
10°	728.5	723.8	726.1	726.1	727.7	730.8	730.8	730.0	730.0	727.7	726.9
12.5°	720.7	716.0	719.9	720.7	722.2	725.3	724.6	724.6	724.6	722.2	721.5
15°	711.4	708.2	712.1	712.9	715.2	719.1	719.1	719.1	719.1	716.8	716.0
17.5°	701.2	698.9	702.8	704.4	707.5	711.4	711.4	712.1	712.9	711.4	710.6
20°	689.6	688.0	691.9	695.0	699.7	703.6	705.1	705.9	707.5	705.9	705.1
22.5°	676.4	676.4	681.8	684.9	690.4	694.2	696.6	698.9	700.5	698.9	698.1
25°	661.6	663.9	669.4	674.8	681.0	684.9	687.3	690.4	691.9	691.1	690.4
27.5°	647.6	650.7	657.7	663.2	668.6	674.8	677.1	681.0	682.6	682.6	681.8
30°	631.3	635.9	643.7	649.9	656.9	663.2	666.3	670.1	672.5	670.9	671.7
32.5°	615.7	623.5	629.7	636.7	644.5	650.7	654.6	659.3	661.6	660.8	661.6
35°	598.6	606.4	614.9	621.9	631.3	637.5	642.9	646.8	649.9	649.2	649.2
37.5°	580.0	590.1	598.6	608.0	616.5	623.5	628.9	633.6	636.7	636.7	636.7
40°	562.1	573.0	581.5	592.4	603.3	609.5	615.7	620.4	623.5	624.3	625.1
42.5°	542.6	554.3	564.4	576.1	587.0	594.7	601.7	607.2	610.3	611.8	611.1
45°	524.8	535.7	547.3	560.5	570.6	578.4	587.0	593.2	596.3	597.1	597.8
47.5°	504.6	517.0	530.2	543.4	553.5	563.6	571.4	577.6	580.7	583.1	583.1
50°	485.1	498.3	513.1	527.1	538.0	548.1	555.9	562.9	566.7	568.3	569.1
52.5°	467.2	479.7	495.2	509.2	520.1	530.2	540.3	548.1	552.0	553.5	553.5
55°	445.5	461.0	478.1	491.3	503.0	514.7	524.8	532.5	536.4	538.8	540.3
57.5°	425.3	441.6	459.5	473.5	487.5	498.3	507.7	517.8	520.9	524.0	524.8
60°	405.8	422.1	439.2	454.8	468.8	480.5	491.3	499.9	505.3	506.9	508.4
62.5°	385.6	402.7	420.6	436.1	450.9	464.9	475.0	482.8	489.0	491.3	492.9
65°	366.2	384.1	401.9	418.3	433.8	447.8	457.9	465.7	471.9	475.8	476.6
67.5°	345.2	364.6	383.3	400.4	415.9	430.7	440.8	448.6	454.8	459.5	460.2
70°	325.7	346.0	364.6	383.3	398.8	413.6	424.5	432.3	439.2	442.4	443.9
72.5°	307.1	328.1	347.5	366.2	381.7	396.5	408.2	415.9	422.9	426.8	427.6
75°	289.2	310.2	331.2	349.1	365.4	380.2	391.8	400.4	406.6	410.5	412.0
77.5°	271.3	293.1	314.1	332.0	349.1	363.8	373.9	384.1	390.3	394.9	394.9
80°	253.4	276.0	297.8	315.6	332.7	346.0	357.6	367.7	373.9	378.6	378.6
82.5°	237.9	259.7	280.7	298.5	315.6	330.4	342.1	351.4	358.4	361.5	362.3
85°	220.0	244.1	263.5	283.0	299.3	313.3	325.0	335.1	341.3	344.4	346.0
87.5°	205.2	228.6	249.6	266.7	283.0	297.0	310.2	318.7	325.0	328.9	330.4
90°	191.2	213.8	234.8	251.9	269.0	282.2	294.6	303.2	310.2	313.3	314.9
92.5°	178.8	201.4	221.6	238.7	255.0	269.8	281.4	290.0	296.2	299.3	301.6
95°	167.1	188.9	208.4	227.0	242.6	255.8	268.2	276.8	283.8	286.1	288.4
97.5°	155.5	176.5	195.9	213.8	230.1	242.6	254.2	262.8	268.2	272.1	274.4
100°	145.4	165.6	184.3	201.4	216.9	228.6	241.0	248.8	254.2	257.3	260.4
102.5°	134.5	154.7	172.6	188.9	205.2	216.1	227.8	235.6	240.2	245.7	245.7
105°	125.2	143.8	161.7	177.3	191.2	204.5	214.6	222.3	227.8	231.7	231.7
107.5°	115.1	133.7	150.8	167.1	180.4	192.8	202.1	209.1	215.3	217.7	220.0
110°	107.3	123.6	140.7	156.3	168.7	180.4	189.7	197.5	202.9	205.2	206.8

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	98.0	115.1	130.6	145.4	157.8	168.7	178.0	184.3	189.7	192.8	193.6
115°	90.2	106.5	120.5	134.5	147.7	157.0	165.6	171.8	177.3	179.6	181.1
117.5°	83.2	98.0	112.0	123.6	136.1	146.2	154.7	160.2	164.8	167.9	169.5
120°	76.2	90.2	102.6	114.3	125.9	135.3	143.0	148.5	153.9	156.3	156.3
122.5°	69.2	82.4	94.1	105.0	115.8	124.4	132.9	137.6	142.3	144.6	144.6
125°	63.0	75.4	86.3	96.4	106.5	114.3	121.3	126.7	131.4	132.9	132.9
127.5°	56.8	68.4	78.5	87.8	96.4	104.2	111.2	116.6	120.5	122.1	122.1
130°	51.3	61.4	70.7	80.1	88.6	94.8	101.8	106.5	108.8	111.2	112.0
132.5°	45.9	55.2	63.7	71.5	80.1	86.3	91.7	96.4	98.7	101.1	101.8
135°	40.4	49.0	56.8	64.5	71.5	77.7	82.4	86.3	89.4	91.0	91.7
137.5°	34.2	43.5	50.5	56.8	64.5	69.2	74.6	77.0	80.1	81.6	81.6
140°	28.8	35.8	43.5	49.8	56.0	60.6	65.3	69.2	71.5	72.3	72.3
142.5°	23.3	29.5	35.8	43.5	49.0	52.9	57.5	60.6	62.2	63.0	63.7
145°	18.7	23.3	28.8	35.8	42.0	46.6	49.0	52.1	53.6	54.4	55.2
147.5°	14.0	18.7	23.3	28.0	34.2	38.9	41.2	44.3	45.9	46.6	46.6
150°	10.9	14.0	17.1	21.8	26.4	31.9	35.0	37.3	38.1	38.9	38.9
152.5°	7.8	10.9	13.2	16.3	19.4	24.1	28.8	30.3	31.1	31.9	31.9
155°	5.4	7.8	9.3	11.7	14.0	17.9	21.8	24.1	24.9	25.7	25.7
157.5°	3.9	5.4	6.2	8.6	10.1	11.7	14.8	18.7	19.4	19.4	19.4
160°	2.3	3.1	3.9	5.4	6.2	7.8	9.3	11.7	14.0	14.0	14.0
162.5°	1.6	2.3	2.3	3.1	3.1	4.7	5.4	6.2	8.6	9.3	9.3
165°	0.8	1.6	1.6	1.6	1.6	1.6	2.3	2.3	3.9	4.7	4.7
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

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	735.5	737.0	736.2	736.2	736.2	737.8	736.2	729.2	730.8	732.3	733.9
5°	734.7	735.5	735.5	734.7	734.7	736.2	734.7	727.7	729.2	730.8	731.6
7.5°	731.6	732.3	732.3	732.3	731.6	733.1	730.8	724.6	724.6	726.1	726.9
10°	727.7	729.2	728.5	727.7	727.7	727.7	726.1	719.1	719.1	719.9	720.7
12.5°	723.0	723.0	723.0	722.2	721.5	721.5	719.9	712.9	712.1	713.7	712.9
15°	716.8	718.3	716.8	716.0	714.5	714.5	712.1	705.1	703.6	704.4	703.6
17.5°	711.4	712.1	710.6	709.0	707.5	706.7	704.4	696.6	694.2	695.0	693.5
20°	705.9	705.9	704.4	702.8	700.5	698.1	695.0	687.3	683.4	683.4	680.3
22.5°	698.9	698.9	697.4	695.0	692.7	689.6	686.5	678.7	672.5	670.9	668.6
25°	691.1	690.4	689.6	687.3	682.6	679.5	676.4	667.8	660.8	657.7	653.8
27.5°	681.8	681.8	679.5	677.1	672.5	668.6	664.7	656.9	647.6	643.7	638.3
30°	671.7	671.7	669.4	666.3	661.6	656.9	652.3	642.9	633.6	628.2	621.9
32.5°	661.6	660.8	658.5	655.4	650.7	643.7	639.8	630.5	619.6	613.4	604.8
35°	649.2	648.4	646.0	642.2	635.9	630.5	624.3	615.7	603.3	595.5	586.2
37.5°	636.7	635.9	634.4	628.9	622.7	616.5	608.7	600.2	588.5	578.4	569.1
40°	624.3	623.5	620.4	616.5	608.7	601.0	593.2	584.6	572.2	560.5	550.4
42.5°	611.1	610.3	606.4	601.7	593.2	585.4	576.1	566.7	554.3	540.3	530.2
45°	597.8	596.3	592.4	587.0	577.6	569.1	559.8	548.9	536.4	523.2	510.0
47.5°	583.9	581.5	577.6	569.9	562.1	552.8	541.9	530.2	517.8	503.0	489.0
50°	568.3	566.7	562.1	555.1	545.8	536.4	524.0	512.3	497.6	483.6	466.5
52.5°	553.5	550.4	546.5	538.8	529.4	519.3	506.1	492.1	477.3	464.1	446.2
55°	538.0	536.4	531.0	524.8	513.1	501.4	489.0	474.2	457.9	442.4	425.3
57.5°	523.2	520.1	515.4	506.9	496.8	485.1	471.9	456.4	438.5	422.1	403.5
60°	508.4	503.8	498.3	490.6	479.7	467.2	453.2	436.9	419.0	401.2	381.7
62.5°	492.1	488.2	482.0	474.2	463.4	450.1	435.4	418.3	401.2	382.5	361.5
65°	475.8	471.9	465.7	457.9	447.0	432.3	416.7	399.6	380.2	362.3	339.7
67.5°	459.5	455.6	448.6	440.0	429.1	415.1	398.8	380.9	361.5	342.1	318.7
70°	443.1	438.5	432.3	422.9	412.0	397.3	380.9	362.3	342.8	321.9	298.5
72.5°	426.8	422.9	415.1	406.6	394.9	380.2	363.8	345.2	325.0	303.2	279.9
75°	410.5	405.8	400.4	390.3	377.8	363.8	346.7	328.1	306.3	285.3	261.2
77.5°	394.2	390.3	383.3	373.2	361.5	346.7	329.6	311.0	289.2	267.4	241.8
80°	377.8	373.2	367.7	358.4	345.2	330.4	312.5	293.9	272.1	249.6	223.9
82.5°	361.5	356.8	350.6	341.3	328.9	314.1	297.0	276.8	255.0	231.7	207.6
85°	345.2	341.3	334.3	325.0	311.8	297.0	279.9	262.0	238.7	215.3	191.2
87.5°	328.9	325.0	318.0	308.6	296.2	281.4	264.3	245.7	223.1	201.4	174.9
90°	313.3	310.2	303.2	293.9	281.4	266.7	251.1	230.9	209.1	187.4	162.5
92.5°	299.3	296.2	290.0	280.7	269.8	253.4	237.9	218.5	196.7	174.1	150.0
95°	286.9	283.0	276.8	268.2	255.0	241.0	225.5	206.0	185.0	162.5	139.2
97.5°	272.9	269.0	262.8	253.4	242.6	227.8	212.2	193.6	172.6	151.6	128.3
100°	258.9	255.0	248.0	240.2	229.3	214.6	199.8	181.1	161.7	141.5	118.9
102.5°	244.9	241.0	234.8	227.0	216.1	202.9	188.1	170.3	150.8	130.6	109.6
105°	231.7	227.8	221.6	213.8	203.7	190.5	174.9	159.4	140.7	121.3	101.1
107.5°	218.5	214.6	209.1	201.4	191.2	178.8	164.0	147.7	130.6	112.0	92.5
110°	205.2	202.1	195.9	188.9	178.8	166.4	153.2	137.6	120.5	103.4	84.7

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	192.8	189.7	183.5	175.7	167.1	155.5	142.3	127.5	111.2	94.8	77.0
115°	180.4	176.5	171.0	164.0	155.5	144.6	132.2	118.9	102.6	87.1	70.7
117.5°	167.9	164.8	159.4	152.4	144.6	133.7	122.1	109.6	94.1	79.3	64.5
120°	155.5	153.2	147.7	141.5	133.7	123.6	112.7	100.3	86.3	72.3	58.3
122.5°	143.8	141.5	136.1	130.6	122.8	113.5	103.4	91.7	79.3	66.1	53.6
125°	132.9	129.8	125.2	119.7	112.7	104.2	94.1	83.2	71.5	59.9	48.2
127.5°	121.3	118.9	115.8	109.6	102.6	94.8	85.5	76.2	65.3	54.4	43.5
130°	112.0	108.8	105.0	100.3	94.1	86.3	77.7	68.4	59.1	49.0	38.1
132.5°	101.1	98.0	94.8	90.2	84.7	77.7	70.0	61.4	52.9	43.5	34.2
135°	91.0	88.6	85.5	80.9	75.4	70.0	62.2	54.4	46.6	38.1	30.3
137.5°	81.6	79.3	76.2	73.1	67.6	62.2	55.2	48.2	41.2	33.4	26.4
140°	72.3	70.7	67.6	64.5	59.9	54.4	48.2	42.0	35.8	28.8	22.5
142.5°	63.0	61.4	59.1	56.0	52.1	47.4	42.0	36.5	30.3	24.9	19.4
145°	54.4	53.6	51.3	48.2	45.1	40.4	35.8	31.1	25.7	21.0	15.5
147.5°	45.9	45.1	43.5	41.2	38.1	34.2	30.3	25.7	21.8	17.1	12.4
150°	38.1	37.3	36.5	33.4	31.9	28.0	24.9	21.0	17.9	13.2	10.1
152.5°	31.1	31.1	29.5	27.2	25.7	22.5	20.2	17.1	14.0	10.9	7.8
155°	24.9	24.1	23.3	21.8	20.2	17.9	15.5	13.2	10.9	7.8	5.4
157.5°	19.4	18.7	17.9	16.3	14.8	14.0	11.7	9.3	7.0	5.4	3.9
160°	14.0	13.2	12.4	11.7	10.9	9.3	7.8	6.2	4.7	3.1	2.3
162.5°	9.3	8.6	8.6	7.8	7.0	5.4	4.7	3.9	3.1	2.3	1.6
165°	4.7	4.7	3.9	3.9	3.1	2.3	2.3	2.3	1.6	1.6	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

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	733.1	733.1	736.2	735.5	733.1	737.8	743.2
5°	730.8	730.8	733.1	733.1	730.8	735.5	740.1
7.5°	726.9	726.1	728.5	728.5	725.3	729.2	734.7
10°	719.9	719.1	721.5	721.5	718.3	722.2	726.9
12.5°	712.1	710.6	712.9	712.1	709.0	712.9	717.6
15°	702.0	701.2	702.8	701.2	698.1	702.0	706.7
17.5°	691.9	689.6	690.4	690.4	684.9	688.8	692.7
20°	678.7	675.6	676.4	675.6	671.7	674.0	678.7
22.5°	665.5	660.8	660.8	660.0	655.4	658.5	662.4
25°	649.2	643.7	643.7	642.9	637.5	639.8	643.7
27.5°	632.8	627.4	625.1	624.3	618.8	618.8	624.3
30°	615.7	608.0	606.4	604.1	598.6	598.6	603.3
32.5°	599.4	588.5	585.4	582.3	576.9	576.1	581.5
35°	577.6	569.1	563.6	560.5	554.3	552.8	557.4
37.5°	559.8	548.9	541.1	537.2	531.0	528.7	534.9
40°	540.3	528.7	518.5	516.2	506.9	503.8	509.2
42.5°	518.5	506.1	496.0	491.3	484.3	481.2	482.0
45°	496.8	483.6	472.7	466.5	459.5	454.0	457.1
47.5°	474.2	462.6	449.4	440.0	431.5	427.6	429.1
50°	451.7	437.7	425.3	415.1	405.0	400.4	403.5
52.5°	429.1	414.4	400.4	389.5	377.8	373.2	373.9
55°	407.4	391.8	375.5	363.8	353.0	346.0	344.4
57.5°	385.6	368.5	351.4	338.2	324.2	318.0	315.6
60°	362.3	344.4	326.5	311.0	296.2	289.2	286.1
62.5°	340.5	321.1	300.9	284.5	269.8	260.4	258.1
65°	319.5	297.0	276.8	258.1	241.8	231.7	228.6
67.5°	297.0	273.7	251.9	231.7	216.1	202.9	201.4
70°	276.0	251.1	227.0	206.0	188.9	175.7	169.5
72.5°	255.0	229.3	204.5	181.9	160.2	147.7	143.0
75°	234.8	208.4	181.9	158.6	134.5	119.7	115.1
77.5°	216.1	188.9	160.9	135.3	112.7	94.1	87.8
80°	198.2	170.3	140.7	114.3	90.2	70.0	63.0
82.5°	179.6	153.2	122.8	94.8	70.0	49.0	40.4
85°	163.3	136.8	106.5	78.5	53.6	31.1	21.8
87.5°	150.0	121.3	94.1	66.1	40.4	17.9	6.2
90°	136.8	108.8	81.6	54.4	30.3	10.1	0.8
92.5°	125.2	98.7	71.5	46.6	23.3	7.0	0.8
95°	114.3	88.6	63.0	38.9	18.7	4.7	0.8
97.5°	104.2	80.1	56.0	33.4	15.5	3.9	0.8
100°	95.6	72.3	49.8	29.5	13.2	3.1	0.8
102.5°	87.1	65.3	44.3	25.7	11.7	2.3	0.8
105°	80.1	59.1	39.6	23.3	10.1	2.3	0.8
107.5°	73.1	53.6	35.8	20.2	8.6	1.6	0.8
110°	66.1	49.0	31.9	17.9	7.8	1.6	0.8

TEST NUMBER: P1213410

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	60.6	44.3	28.8	16.3	6.2	1.6	0.8
115°	55.2	39.6	25.7	14.0	5.4	0.8	0.8
117.5°	49.8	35.8	22.5	12.4	4.7	0.8	0.8
120°	45.1	31.9	20.2	10.9	3.9	0.8	0.8
122.5°	40.4	28.8	17.9	9.3	3.1	0.8	0.8
125°	36.5	25.7	15.5	7.8	2.3	0.8	0.8
127.5°	32.7	22.5	14.0	7.0	2.3	0.8	0.8
130°	28.8	20.2	11.7	5.4	1.6	0.8	0.8
132.5°	25.7	17.1	10.1	4.7	1.6	0.8	0.8
135°	22.5	14.8	8.6	3.1	1.6	0.8	0.8
137.5°	19.4	12.4	7.0	2.3	0.8	0.8	0.8
140°	16.3	10.9	5.4	2.3	0.8	0.8	0.8
142.5°	14.0	8.6	3.9	1.6	0.8	0.8	0.8
145°	10.9	7.0	3.1	1.6	0.8	0.8	0.8
147.5°	8.6	5.4	2.3	1.6	0.8	0.8	0.8
150°	6.2	3.9	2.3	0.8	0.8	0.8	0.8
152.5°	4.7	3.1	1.6	0.8	0.8	0.8	0.8
155°	3.1	2.3	1.6	0.8	0.8	0.8	0.8
157.5°	2.3	1.6	0.8	0.8	0.8	0.8	0.8
160°	1.6	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)