

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: P1214052

Luminaire Tested: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214052
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-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

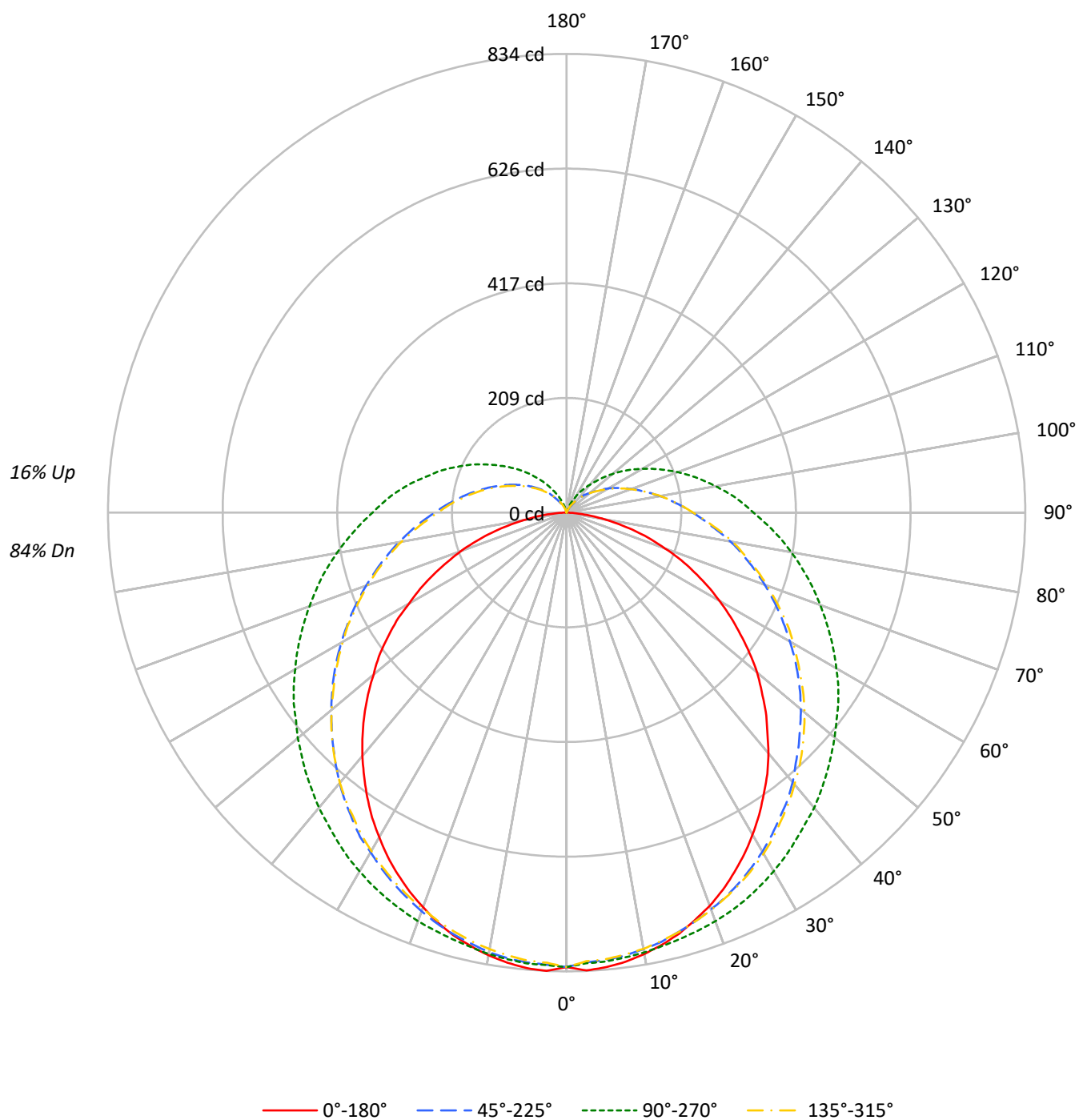
Lumens per Lamp: N/A
Luminaire Lumens: 3589.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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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CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13351	13351	13351	13351
5°	13386	12866	13413	12921
10°	13226	12500	13268	12542
15°	13035	12188	13093	12202
20°	12792	11960	12836	11960
25°	12502	11757	12578	11743
30°	12180	11548	12274	11548
35°	11811	11354	11943	11368
40°	11443	11241	11581	11241
45°	11023	11121	11191	11136
50°	10584	11050	10727	11082
55°	9985	11061	10301	11109
60°	9354	11095	9657	11163
65°	8640	11206	9021	11318
70°	7663	11413	8259	11576
75°	6532	11785	7150	12011
80°	4851	12339	5511	12625
85°	2639	13225	3299	13593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 15194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	2.2
10°-20°	224.9	6.3
20°-30°	344.8	9.6
30°-40°	425.4	11.9
40°-50°	461.5	12.9
50°-60°	454.9	12.7
60°-70°	411.3	11.5
70°-80°	342.6	9.5
80°-90°	265.4	7.4
90°-100°	201.3	5.6
100°-110°	148.9	4.1
110°-120°	103.6	2.9
120°-130°	66.1	1.8
130°-140°	37.1	1.0
140°-150°	16.9	0.5
150°-160°	5.3	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	648.0	18.1
0°-40°	1073.4	29.9
0°-60°	1989.8	55.4
0°-90°	3009.1	83.8
90°-120°	453.8	12.6
90°-150°	574.0	16.0
90°-180°	580.0	16.2
0°-180°	3589.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	826	826	826	826	826	
5°	830	819	831	823	830	79
15°	792	802	796	803	792	223
25°	722	775	726	774	722	332
35°	625	727	632	728	625	391
45°	512	669	520	670	512	395
55°	386	603	398	606	386	345
65°	256	529	268	534	256	254
75°	129	453	141	462	129	137
85°	24	377	30	388	24	29
90°	1	340	2	353	1	1
95°	1	308	1	323	1	1
105°	1	245	1	260	1	1
115°	1	186	1	203	1	1
125°	1	134	1	149	1	1
135°	1	87	1	103	1	1
145°	1	50	1	62	1	1
155°	1	21	1	29	1	0
165°	1	4	1	5	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°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	833.1	833.1	832.2	830.4	831.3	833.9	832.2	827.8	825.2	818.2	820.0
5°	829.6	829.6	828.7	827.0	827.8	831.3	829.6	826.1	822.6	816.5	819.1
7.5°	823.5	823.5	822.6	820.9	822.6	826.1	824.3	820.9	818.2	812.1	814.8
10°	814.8	815.6	814.8	812.1	815.6	819.1	818.2	813.9	811.3	806.0	808.7
12.5°	804.3	805.2	804.3	803.4	805.2	810.4	808.7	805.2	803.4	799.1	801.7
15°	792.1	793.0	791.2	791.2	793.0	798.2	798.2	794.7	793.0	788.6	793.8
17.5°	776.4	777.3	776.4	776.4	778.2	783.4	784.3	782.5	780.8	779.0	784.3
20°	760.7	759.9	759.9	759.0	762.5	770.3	769.4	769.4	767.7	767.7	773.8
22.5°	742.4	742.4	741.6	741.6	745.9	752.9	752.9	754.6	752.9	756.4	761.6
25°	721.5	722.4	721.5	723.3	726.7	734.6	735.5	738.1	738.9	742.4	748.5
27.5°	699.7	700.6	699.7	701.5	707.6	713.7	718.0	721.5	722.4	727.6	735.5
30°	676.2	676.2	677.1	678.8	685.8	695.4	698.9	703.2	703.2	711.9	719.8
32.5°	651.8	651.8	651.8	655.3	663.1	674.5	678.8	684.0	685.8	694.5	703.2
35°	624.8	625.7	625.7	628.3	638.7	650.1	656.2	662.3	665.7	676.2	684.9
37.5°	599.5	601.3	598.6	602.1	616.9	626.5	633.5	639.6	645.7	659.6	666.6
40°	570.8	572.5	571.6	578.6	590.8	603.0	610.8	616.9	625.7	639.6	647.4
42.5°	540.3	542.0	543.8	551.6	564.7	576.9	586.4	594.3	604.7	616.9	630.0
45°	512.4	512.4	515.0	524.6	538.5	551.6	562.9	571.6	583.8	596.9	610.0
47.5°	481.0	481.9	485.4	496.7	511.5	527.2	537.7	549.0	562.0	576.0	590.8
50°	452.3	452.3	457.5	469.7	483.6	501.1	512.4	525.5	539.4	556.0	570.8
52.5°	419.1	420.9	428.7	440.1	458.4	474.0	487.1	501.1	517.6	535.0	551.6
55°	386.0	389.5	395.6	411.3	430.5	445.3	461.0	478.4	494.1	513.3	532.4
57.5°	353.8	356.4	366.0	381.7	401.7	420.0	436.6	453.1	472.3	491.5	511.5
60°	320.7	324.2	335.5	351.2	373.0	392.1	411.3	428.7	448.8	468.8	489.7
62.5°	289.3	291.9	305.0	323.3	345.1	366.0	385.2	406.1	427.9	447.0	467.9
65°	256.2	260.5	275.4	291.9	317.2	338.1	359.9	382.5	405.2	426.1	446.2
67.5°	225.7	228.3	244.0	263.2	288.4	312.0	334.6	359.0	382.5	404.3	424.4
70°	190.0	198.7	214.4	234.4	261.4	285.8	310.2	335.5	360.8	383.4	402.6
72.5°	160.3	167.3	184.7	206.5	232.7	261.4	286.7	313.7	339.0	362.5	382.5
75°	129.0	135.9	156.0	180.4	207.4	237.9	264.0	291.9	318.1	341.6	362.5
77.5°	98.5	107.2	129.0	154.2	183.9	215.2	242.2	270.1	297.1	322.4	343.3
80°	70.6	80.2	103.7	132.5	161.2	192.6	222.2	250.1	277.1	302.4	324.2
82.5°	45.3	55.8	81.0	109.8	140.3	171.7	202.2	230.0	257.1	282.3	305.0
85°	24.4	35.7	61.9	90.6	121.1	152.5	183.0	212.6	238.8	262.3	286.7
87.5°	7.0	20.9	46.2	74.9	106.3	135.1	164.7	194.3	220.5	245.7	267.5
90°	0.9	12.2	34.9	61.9	92.4	120.3	149.9	177.8	203.9	229.2	251.0
92.5°	0.9	7.8	27.0	51.4	79.3	108.1	137.7	164.7	189.1	214.4	236.1
95°	0.9	6.1	21.8	43.6	69.7	96.7	124.6	150.8	176.0	199.5	221.3
97.5°	0.9	4.4	17.4	37.5	61.0	86.3	113.3	139.4	163.8	186.5	206.5
100°	0.9	3.5	13.9	32.2	53.2	77.6	102.0	127.2	150.8	172.5	193.4
102.5°	0.9	2.6	12.2	27.0	47.1	68.8	92.4	115.9	138.6	159.5	180.4
105°	0.9	2.6	10.5	23.5	41.8	61.9	83.7	106.3	127.2	147.3	166.4
107.5°	0.9	1.7	8.7	20.0	36.6	55.8	75.8	97.6	116.8	135.9	154.2
110°	0.9	1.7	7.0	18.3	32.2	49.7	68.8	88.9	107.2	125.5	142.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.9	1.7	6.1	15.7	27.9	44.4	61.9	80.2	97.6	115.9	131.6
115°	0.9	1.7	5.2	13.9	26.1	38.3	55.8	72.3	89.8	106.3	121.1
117.5°	0.9	1.7	4.4	11.3	22.7	34.9	48.8	65.4	81.0	96.7	110.7
120°	0.9	1.7	3.5	10.5	20.0	31.4	43.6	58.4	73.2	88.0	102.8
122.5°	0.9	0.9	3.5	8.7	17.4	27.9	40.1	51.4	65.4	79.3	92.4
125°	0.9	0.9	3.5	7.8	14.8	25.3	35.7	46.2	58.4	70.6	81.9
127.5°	0.9	0.9	2.6	6.1	13.1	21.8	31.4	42.7	51.4	62.7	74.1
130°	0.9	0.9	2.6	5.2	11.3	18.3	27.9	37.5	47.9	55.8	65.4
132.5°	0.9	0.9	2.6	4.4	8.7	14.8	23.5	32.2	41.8	50.5	58.4
135°	0.9	0.9	1.7	3.5	7.0	12.2	19.2	27.0	36.6	45.3	53.2
137.5°	0.9	0.9	1.7	3.5	5.2	10.5	14.8	21.8	30.5	38.3	46.2
140°	0.9	0.9	1.7	2.6	4.4	7.8	12.2	17.4	24.4	31.4	40.1
142.5°	0.9	0.9	0.9	2.6	3.5	6.1	9.6	13.9	19.2	25.3	32.2
145°	0.9	0.9	0.9	2.6	3.5	4.4	7.8	11.3	14.8	19.2	25.3
147.5°	0.9	0.9	0.9	1.7	2.6	3.5	6.1	8.7	11.3	14.8	18.3
150°	0.9	0.9	0.9	1.7	2.6	3.5	4.4	6.1	8.7	12.2	14.8
152.5°	0.9	0.9	0.9	1.7	1.7	2.6	3.5	4.4	6.1	8.7	10.5
155°	0.9	0.9	0.9	0.9	1.7	2.6	3.5	3.5	4.4	6.1	7.8
157.5°	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	3.5	3.5	5.2
160°	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	2.6	2.6
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	2.6
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
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°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	820.0	820.9	823.5	823.5	821.7	821.7	820.9	820.0	820.9	822.6	822.6
5°	818.2	819.1	821.7	822.6	820.9	820.0	820.0	819.1	820.0	821.7	821.7
7.5°	814.8	815.6	818.2	819.1	817.4	817.4	816.5	815.6	817.4	818.2	818.2
10°	809.5	810.4	813.9	814.8	813.9	813.0	813.0	812.1	813.0	814.8	814.8
12.5°	802.6	804.3	808.7	808.7	808.7	807.8	807.8	806.9	807.8	809.5	808.7
15°	794.7	798.2	801.7	803.4	803.4	803.4	802.6	801.7	803.4	804.3	803.4
17.5°	786.0	790.4	795.6	797.3	797.3	798.2	797.3	796.5	798.2	798.2	797.3
20°	777.3	781.6	786.9	788.6	790.4	791.2	791.2	790.4	791.2	792.1	791.2
22.5°	766.0	771.2	777.3	779.9	781.6	783.4	783.4	783.4	784.3	785.1	783.4
25°	753.8	759.9	766.8	769.4	772.9	773.8	774.7	774.7	775.5	776.4	773.8
27.5°	740.7	747.7	754.6	759.0	761.6	763.3	763.3	764.2	765.1	766.0	763.3
30°	725.0	735.5	741.6	745.0	748.5	751.1	752.0	752.9	753.8	754.6	752.0
32.5°	711.1	719.8	727.6	732.0	736.3	739.8	740.7	740.7	742.4	742.4	739.8
35°	694.5	705.0	712.8	717.2	722.4	725.0	726.7	726.7	728.5	728.5	725.9
37.5°	677.9	688.4	697.1	702.3	708.4	711.9	712.8	712.8	714.5	714.5	711.1
40°	660.5	671.8	681.4	687.5	692.8	697.1	698.0	700.6	700.6	699.7	696.2
42.5°	643.1	653.5	664.0	671.0	677.9	682.3	684.0	684.9	684.9	684.0	681.4
45°	623.9	636.1	645.7	654.4	661.4	665.7	668.4	669.2	669.2	667.5	664.9
47.5°	605.6	617.8	627.4	637.0	644.0	649.2	651.8	652.7	651.8	650.9	648.3
50°	586.4	600.4	610.0	619.6	626.5	630.9	635.2	636.1	635.2	634.4	629.1
52.5°	566.4	581.2	591.7	601.3	609.1	614.3	617.8	618.7	618.7	616.9	613.5
55°	546.4	559.4	572.5	583.0	591.7	596.9	601.3	603.0	601.3	599.5	595.2
57.5°	528.1	540.3	553.3	564.7	573.4	580.3	583.8	585.6	583.8	581.2	576.9
60°	506.3	519.4	534.2	544.6	554.2	561.2	562.9	566.4	564.7	562.0	557.7
62.5°	485.4	501.1	514.1	527.2	535.0	542.9	546.4	548.1	546.4	543.8	539.4
65°	463.6	481.0	494.1	507.2	515.9	523.7	528.1	528.9	527.2	524.6	520.2
67.5°	443.5	460.1	474.0	488.0	495.8	503.7	508.0	509.8	508.0	504.5	500.2
70°	423.5	440.1	456.6	467.1	476.7	485.4	488.0	490.6	488.9	485.4	480.1
72.5°	403.5	420.9	437.4	447.9	458.4	466.2	469.7	472.3	470.6	467.1	461.0
75°	382.5	400.8	417.4	428.7	439.2	447.0	450.5	453.1	451.4	447.9	440.9
77.5°	363.4	381.7	397.4	409.6	420.0	427.0	433.1	434.0	432.2	428.7	421.8
80°	343.3	361.6	378.2	390.4	400.8	407.8	412.2	414.8	413.0	409.6	402.6
82.5°	325.9	342.5	359.0	371.2	381.7	390.4	393.9	396.5	395.6	390.4	385.2
85°	306.7	325.9	339.0	352.0	362.5	371.2	373.8	377.3	376.4	372.1	365.1
87.5°	287.6	306.7	322.4	335.5	345.1	352.0	356.4	358.1	357.3	352.9	345.1
90°	271.9	289.3	305.0	318.9	326.8	334.6	339.0	339.8	339.8	334.6	328.5
92.5°	257.1	273.6	289.3	302.4	312.0	318.9	322.4	324.2	323.3	318.9	312.0
95°	240.5	258.8	273.6	286.7	296.3	303.2	306.7	308.5	307.6	303.2	296.3
97.5°	226.6	243.1	257.9	270.1	279.7	286.7	290.2	291.9	291.9	287.6	280.6
100°	212.6	229.2	243.1	255.3	264.0	271.0	274.5	275.4	274.5	271.0	264.0
102.5°	198.7	214.4	228.3	239.6	249.2	255.3	258.8	259.7	259.7	255.3	248.3
105°	184.7	200.4	213.5	225.7	233.5	239.6	242.2	244.9	244.0	240.5	233.5
107.5°	171.7	187.3	199.5	210.9	218.7	224.8	227.4	230.0	229.2	225.7	218.7
110°	159.5	174.3	185.6	196.9	203.9	210.0	214.4	215.2	213.5	210.0	203.9



TEST NUMBER: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	148.1	161.2	172.5	183.0	190.8	195.2	198.7	200.4	198.7	195.2	190.8
115°	135.9	149.0	160.3	169.9	176.9	182.1	184.7	186.5	184.7	181.3	176.9
117.5°	124.6	136.8	148.1	157.7	163.8	168.2	170.8	172.5	170.8	168.2	163.8
120°	115.0	125.5	135.9	144.7	151.6	155.1	157.7	159.5	158.6	155.1	150.8
122.5°	103.7	115.0	124.6	133.3	139.4	142.9	144.7	146.4	145.5	142.9	138.6
125°	94.1	103.7	113.3	121.1	127.2	130.7	132.5	134.2	133.3	130.7	125.5
127.5°	83.7	94.1	102.0	109.8	114.2	119.4	120.3	122.0	121.1	118.5	114.2
130°	75.8	83.7	91.5	98.5	103.7	107.2	108.9	109.8	108.1	106.3	102.0
132.5°	66.2	74.9	81.9	88.0	91.5	95.0	96.7	97.6	97.6	95.0	91.5
135°	59.3	65.4	71.5	77.6	81.0	84.5	86.3	87.1	86.3	84.5	81.0
137.5°	53.2	58.4	62.7	68.0	72.3	74.1	75.8	75.8	74.9	74.1	71.5
140°	46.2	52.3	56.6	60.1	63.6	64.5	66.2	66.2	65.4	64.5	62.7
142.5°	39.2	44.4	48.8	53.2	55.8	57.5	58.4	59.3	58.4	57.5	54.9
145°	31.4	37.5	41.8	44.4	47.9	48.8	49.7	50.5	49.7	48.8	46.2
147.5°	24.4	29.6	34.0	37.5	40.1	41.0	41.8	42.7	41.8	40.1	39.2
150°	17.4	21.8	27.0	30.5	32.2	34.0	34.0	34.0	34.9	33.1	31.4
152.5°	13.9	15.7	19.2	22.7	25.3	26.1	27.0	27.0	26.1	26.1	24.4
155°	9.6	11.3	13.9	16.6	19.2	20.0	20.9	20.9	20.0	20.0	19.2
157.5°	6.1	7.8	9.6	11.3	13.9	14.8	15.7	15.7	15.7	14.8	13.9
160°	3.5	4.4	5.2	7.0	8.7	9.6	10.5	10.5	10.5	10.5	9.6
162.5°	2.6	2.6	2.6	3.5	4.4	5.2	6.1	6.1	6.1	6.1	5.2
165°	1.7	1.7	1.7	1.7	1.7	2.6	3.5	3.5	3.5	3.5	3.5
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: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	821.7	821.7	822.6	820.9	815.6	816.5	816.5	820.0	821.7	822.6	827.0
5°	820.0	820.0	821.7	819.1	814.8	814.8	814.8	818.2	819.1	820.9	824.3
7.5°	817.4	817.4	818.2	815.6	810.4	810.4	809.5	813.0	814.8	815.6	819.1
10°	813.0	813.0	813.9	811.3	805.2	805.2	804.3	806.9	807.8	809.5	812.1
12.5°	806.9	806.9	806.9	804.3	798.2	797.3	796.5	799.1	799.1	799.9	802.6
15°	801.7	799.9	799.9	797.3	791.2	789.5	787.7	788.6	790.4	789.5	791.2
17.5°	795.6	793.8	792.1	789.5	781.6	779.0	777.3	778.2	777.3	776.4	778.2
20°	788.6	786.0	785.1	780.8	772.9	768.6	765.1	763.3	764.2	761.6	762.5
22.5°	780.8	777.3	775.5	770.3	762.5	757.2	752.9	749.4	748.5	745.0	745.9
25°	771.2	766.8	764.2	759.9	751.1	745.0	739.8	734.6	732.0	727.6	726.7
27.5°	759.9	755.5	752.0	747.7	738.9	731.1	725.0	718.0	714.5	709.3	706.7
30°	748.5	743.3	738.1	734.6	725.0	716.3	706.7	700.6	695.4	689.3	684.9
32.5°	734.6	729.4	724.1	718.9	710.2	699.7	691.9	682.3	676.2	669.2	664.0
35°	720.6	713.7	708.4	701.5	693.6	681.4	671.8	662.3	654.4	646.6	640.5
37.5°	705.0	699.7	691.9	685.8	676.2	664.0	653.5	641.3	634.4	623.9	616.1
40°	690.1	684.0	676.2	668.4	658.8	644.8	633.5	619.6	611.7	599.5	591.7
42.5°	675.3	666.6	658.8	650.1	639.6	626.5	612.6	598.6	588.2	576.9	565.5
45°	658.8	649.2	639.6	630.0	619.6	606.5	591.7	576.9	563.8	553.3	539.4
47.5°	641.3	631.8	620.4	610.0	598.6	585.6	569.9	554.2	540.3	528.1	513.3
50°	623.9	614.3	602.1	590.8	577.7	564.7	548.1	529.8	515.0	499.3	486.2
52.5°	605.6	596.0	584.7	569.9	556.0	542.9	525.5	506.3	489.7	476.7	460.1
55°	587.3	577.7	564.7	549.9	535.9	519.4	502.8	483.6	465.3	449.6	433.1
57.5°	568.1	559.4	544.6	532.4	515.0	497.6	480.1	461.8	441.8	423.5	404.3
60°	549.0	539.4	525.5	510.6	493.2	475.8	457.5	437.4	416.5	396.5	379.1
62.5°	531.6	519.4	506.3	490.6	472.3	455.7	434.8	413.0	392.1	371.2	350.3
65°	511.5	498.4	486.2	470.6	451.4	432.2	411.3	389.5	366.9	344.2	323.3
67.5°	491.5	478.4	465.3	449.6	429.6	409.6	387.8	366.0	340.7	318.9	294.5
70°	471.4	461.0	444.4	427.9	409.6	387.8	366.0	342.5	316.3	292.8	267.5
72.5°	451.4	440.9	424.4	406.9	389.5	366.9	343.3	319.8	295.4	268.4	241.4
75°	432.2	419.1	404.3	387.8	369.5	345.9	322.4	298.0	269.3	244.0	216.1
77.5°	413.9	401.7	386.9	368.6	348.6	325.9	301.5	276.2	247.5	220.5	190.0
80°	393.9	381.7	366.9	348.6	328.5	306.7	280.6	254.4	226.6	196.9	165.6
82.5°	374.7	363.4	346.8	330.3	308.5	286.7	260.5	234.4	204.8	176.0	145.5
85°	354.7	343.3	327.6	310.2	289.3	265.8	241.4	215.2	185.6	156.0	125.5
87.5°	337.2	324.2	308.5	291.0	270.1	247.5	223.9	196.1	167.3	138.6	107.2
90°	318.9	306.7	291.0	273.6	252.7	230.0	205.6	179.5	151.6	122.0	92.4
92.5°	303.2	290.2	275.4	257.9	237.0	215.2	190.8	164.7	137.7	108.9	80.2
95°	287.6	274.5	260.5	243.1	222.2	200.4	176.0	150.8	124.6	96.7	69.7
97.5°	270.1	258.8	244.9	228.3	207.4	186.5	163.0	138.6	113.3	86.3	61.0
100°	256.2	243.1	230.0	212.6	193.4	173.4	149.9	126.4	102.0	76.7	53.2
102.5°	240.5	228.3	215.2	198.7	179.5	159.5	137.7	115.0	92.4	68.8	46.2
105°	225.7	214.4	200.4	184.7	166.4	147.3	126.4	105.4	83.7	61.0	41.0
107.5°	210.9	199.5	186.5	171.7	154.2	135.1	115.9	95.0	74.9	54.9	36.6
110°	196.1	185.6	173.4	158.6	142.0	124.6	106.3	87.1	67.1	48.8	32.2

TEST NUMBER: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	183.0	172.5	160.3	146.4	130.7	114.2	96.7	78.4	60.1	43.6	27.9
115°	169.9	160.3	148.1	135.9	120.3	104.6	88.0	70.6	54.0	39.2	24.4
117.5°	156.9	147.3	135.9	123.7	109.8	95.0	79.3	62.7	48.8	34.9	21.8
120°	143.8	135.1	124.6	113.3	101.1	86.3	70.6	56.6	43.6	30.5	19.2
122.5°	131.6	123.7	114.2	103.7	90.6	76.7	63.6	51.4	39.2	27.0	15.7
125°	120.3	112.4	103.7	93.2	81.0	68.8	57.5	46.2	34.0	23.5	13.1
127.5°	108.9	101.1	92.4	82.8	73.2	61.9	51.4	41.0	30.5	20.9	11.3
130°	97.6	90.6	82.8	74.9	65.4	54.9	46.2	35.7	26.1	16.6	9.6
132.5°	86.3	81.0	74.1	66.2	57.5	49.7	40.1	31.4	22.7	14.8	8.7
135°	76.7	71.5	65.4	58.4	51.4	43.6	34.9	27.0	19.2	12.2	7.0
137.5°	68.0	63.6	57.5	51.4	45.3	37.5	30.5	22.7	15.7	10.5	5.2
140°	60.1	55.8	50.5	44.4	39.2	32.2	25.3	18.3	13.9	8.7	4.4
142.5°	52.3	47.9	43.6	38.3	33.1	27.0	20.9	15.7	11.3	7.0	4.4
145°	44.4	41.0	36.6	32.2	27.0	21.8	17.4	13.1	8.7	5.2	3.5
147.5°	36.6	34.0	29.6	26.1	21.8	17.4	13.9	10.5	7.0	4.4	2.6
150°	29.6	27.0	23.5	20.0	17.4	13.9	11.3	7.8	5.2	4.4	2.6
152.5°	22.7	20.9	18.3	16.6	13.9	10.5	7.8	6.1	4.4	3.5	1.7
155°	18.3	16.6	14.8	12.2	10.5	7.8	6.1	4.4	3.5	2.6	1.7
157.5°	13.1	12.2	10.5	8.7	7.0	5.2	4.4	4.4	2.6	1.7	0.9
160°	8.7	7.8	7.0	5.2	4.4	4.4	3.5	2.6	1.7	1.7	0.9
162.5°	5.2	4.4	4.4	4.4	3.5	3.5	2.6	1.7	1.7	0.9	0.9
165°	3.5	3.5	3.5	2.6	2.6	2.6	1.7	0.9	0.9	0.9	0.9
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: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	827.0	824.3	827.8	833.9	834.8	833.9	832.2	834.8	838.3	837.4	831.3
5°	825.2	821.7	825.2	831.3	831.3	830.4	829.6	832.2	835.7	834.8	829.6
7.5°	820.0	816.5	820.0	825.2	826.1	824.3	824.3	827.0	830.4	829.6	825.2
10°	813.0	809.5	811.3	817.4	819.1	817.4	817.4	820.0	824.3	823.5	818.2
12.5°	802.6	799.9	801.7	806.9	808.7	807.8	806.9	810.4	814.8	814.8	809.5
15°	791.2	787.7	789.5	795.6	796.5	794.7	795.6	798.2	803.4	803.4	799.1
17.5°	778.2	773.8	776.4	780.8	781.6	781.6	781.6	785.1	791.2	790.4	786.9
20°	763.3	757.2	759.0	763.3	765.1	765.1	765.1	771.2	775.5	775.5	772.1
22.5°	745.9	741.6	741.6	745.9	748.5	747.7	747.7	752.9	759.0	758.1	758.1
25°	725.9	722.4	720.6	725.9	726.7	727.6	729.4	734.6	741.6	741.6	742.4
27.5°	705.0	701.5	700.6	705.0	705.8	706.7	708.4	714.5	721.5	722.4	724.1
30°	684.9	679.7	677.9	681.4	683.2	684.0	684.0	693.6	699.7	702.3	705.8
32.5°	661.4	656.2	651.8	657.9	658.8	660.5	661.4	671.0	677.9	682.3	687.5
35°	637.9	629.1	627.4	631.8	633.5	634.4	636.1	646.6	656.2	659.6	666.6
37.5°	611.7	605.6	600.4	604.7	606.5	607.4	612.6	622.2	631.8	637.0	644.0
40°	587.3	579.5	575.1	577.7	579.5	580.3	586.4	596.9	608.2	614.3	623.0
42.5°	560.3	549.9	546.4	549.0	549.9	552.5	557.7	571.6	583.0	591.7	598.6
45°	533.3	525.5	517.6	520.2	521.1	522.8	530.7	545.5	557.7	568.1	576.0
47.5°	505.4	495.8	488.0	489.7	493.2	494.1	502.8	520.2	531.6	542.9	553.3
50°	477.5	464.5	458.4	458.4	460.1	464.5	475.8	493.2	505.4	518.5	529.8
52.5°	448.8	436.6	429.6	430.5	432.2	437.4	447.9	465.3	479.3	493.2	507.2
55°	420.0	406.9	400.0	398.2	400.0	406.9	419.1	437.4	451.4	467.9	482.8
57.5°	391.3	375.6	369.5	366.9	368.6	377.3	389.5	408.7	426.1	441.8	459.2
60°	359.9	347.7	337.2	331.1	335.5	346.8	359.9	379.9	398.2	415.7	434.8
62.5°	332.9	317.2	305.9	299.8	304.1	313.7	332.0	351.2	371.2	391.3	410.4
65°	302.4	286.7	273.6	267.5	271.9	283.2	301.5	322.4	344.2	364.2	386.9
67.5°	272.7	256.2	240.5	234.4	239.6	251.8	271.9	295.4	318.9	339.8	364.2
70°	244.0	225.7	209.1	204.8	208.3	224.8	244.0	267.5	291.9	316.3	341.6
72.5°	217.8	195.2	177.8	172.5	176.9	195.2	217.0	241.4	267.5	293.7	320.7
75°	187.3	166.4	147.3	141.2	146.4	163.0	190.0	216.1	244.0	271.9	297.1
77.5°	163.0	138.6	118.5	108.9	117.6	138.6	164.7	192.6	221.3	250.1	278.8
80°	137.7	112.4	90.6	80.2	89.8	112.4	138.6	169.1	201.3	230.0	256.2
82.5°	115.0	88.0	65.4	54.0	64.5	89.8	118.5	149.0	180.4	209.1	239.6
85°	94.1	66.2	42.7	30.5	45.3	68.0	98.5	129.8	162.1	191.7	221.3
87.5°	76.7	49.7	26.1	13.1	27.9	53.2	81.9	113.3	145.5	175.2	203.0
90°	62.7	35.7	13.9	1.7	16.6	40.1	68.0	98.5	129.0	159.5	187.3
92.5°	51.4	27.0	7.8	0.9	10.5	32.2	58.4	87.1	116.8	146.4	173.4
95°	42.7	20.9	5.2	0.9	7.8	25.3	49.7	77.6	105.4	134.2	161.2
97.5°	36.6	17.4	4.4	0.9	6.1	21.8	42.7	68.8	95.9	122.9	149.0
100°	31.4	13.9	3.5	0.9	5.2	18.3	37.5	61.0	86.3	112.4	137.7
102.5°	27.0	11.3	2.6	0.9	4.4	15.7	33.1	54.9	77.6	102.8	127.2
105°	23.5	9.6	2.6	0.9	3.5	13.9	29.6	48.8	71.5	94.1	117.6
107.5°	20.0	7.8	1.7	0.9	2.6	11.3	26.1	44.4	64.5	86.3	108.1
110°	17.4	7.0	1.7	0.9	2.6	10.5	22.7	40.1	58.4	78.4	99.3

TEST NUMBER: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.8	5.2	1.7	0.9	1.7	8.7	20.0	35.7	53.2	71.5	91.5
115°	13.1	4.4	0.9	0.9	1.7	7.8	18.3	32.2	47.9	65.4	83.7
117.5°	10.5	3.5	0.9	0.9	0.9	6.1	15.7	28.8	43.6	60.1	76.7
120°	8.7	3.5	0.9	0.9	0.9	5.2	13.9	25.3	39.2	54.0	69.7
122.5°	7.8	2.6	0.9	0.9	0.9	4.4	12.2	22.7	34.9	48.8	63.6
125°	7.0	2.6	0.9	0.9	0.9	3.5	10.5	20.0	31.4	43.6	57.5
127.5°	5.2	2.6	0.9	0.9	0.9	2.6	9.6	17.4	27.9	39.2	51.4
130°	4.4	1.7	0.9	0.9	0.9	2.6	7.8	15.7	24.4	34.9	46.2
132.5°	3.5	1.7	0.9	0.9	0.9	1.7	6.1	12.2	20.9	30.5	41.0
135°	3.5	1.7	0.9	0.9	0.9	1.7	4.4	10.5	17.4	26.1	34.9
137.5°	3.5	0.9	0.9	0.9	0.9	1.7	3.5	7.8	13.9	20.9	28.8
140°	2.6	0.9	0.9	0.9	0.9	0.9	2.6	6.1	11.3	17.4	24.4
142.5°	2.6	0.9	0.9	0.9	0.9	0.9	2.6	4.4	8.7	13.9	19.2
145°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	3.5	7.0	10.5	15.7
147.5°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6	5.2	8.7	12.2
150°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5	6.1	9.6
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	4.4	6.1
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5	4.4
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	3.5
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	828.7	822.6	824.3	823.5	825.2	827.8	827.8	827.0	827.0	825.2	823.5
5°	827.0	820.9	823.5	822.6	824.3	827.0	827.0	826.1	826.1	823.5	822.6
7.5°	821.7	817.4	819.1	819.1	820.9	823.5	823.5	822.6	822.6	820.0	819.1
10°	816.5	811.3	813.9	813.9	815.6	819.1	819.1	818.2	818.2	815.6	814.8
12.5°	807.8	802.6	806.9	807.8	809.5	813.0	812.1	812.1	812.1	809.5	808.7
15°	797.3	793.8	798.2	799.1	801.7	806.0	806.0	806.0	806.0	803.4	802.6
17.5°	786.0	783.4	787.7	789.5	793.0	797.3	797.3	798.2	799.1	797.3	796.5
20°	772.9	771.2	775.5	779.0	784.3	788.6	790.4	791.2	793.0	791.2	790.4
22.5°	758.1	758.1	764.2	767.7	773.8	778.2	780.8	783.4	785.1	783.4	782.5
25°	741.6	744.2	750.3	756.4	763.3	767.7	770.3	773.8	775.5	774.7	773.8
27.5°	725.9	729.4	737.2	743.3	749.4	756.4	759.0	763.3	765.1	765.1	764.2
30°	707.6	712.8	721.5	728.5	736.3	743.3	746.8	751.1	753.8	752.0	752.9
32.5°	690.1	698.9	705.8	713.7	722.4	729.4	733.7	738.9	741.6	740.7	741.6
35°	671.0	679.7	689.3	697.1	707.6	714.5	720.6	725.0	728.5	727.6	727.6
37.5°	650.1	661.4	671.0	681.4	691.0	698.9	705.0	710.2	713.7	713.7	713.7
40°	630.0	642.2	651.8	664.0	676.2	683.2	690.1	695.4	698.9	699.7	700.6
42.5°	608.2	621.3	632.6	645.7	657.9	666.6	674.5	680.6	684.0	685.8	684.9
45°	588.2	600.4	613.5	628.3	639.6	648.3	657.9	664.9	668.4	669.2	670.1
47.5°	565.5	579.5	594.3	609.1	620.4	631.8	640.5	647.4	650.9	653.5	653.5
50°	543.8	558.6	575.1	590.8	603.0	614.3	623.0	630.9	635.2	637.0	637.9
52.5°	523.7	537.7	555.1	570.8	583.0	594.3	605.6	614.3	618.7	620.4	620.4
55°	499.3	516.7	535.9	550.7	563.8	576.9	588.2	596.9	601.3	603.9	605.6
57.5°	476.7	495.0	515.0	530.7	546.4	558.6	569.0	580.3	583.8	587.3	588.2
60°	454.9	473.2	492.3	509.8	525.5	538.5	550.7	560.3	566.4	568.1	569.9
62.5°	432.2	451.4	471.4	488.9	505.4	521.1	532.4	541.1	548.1	550.7	552.5
65°	410.4	430.5	450.5	468.8	486.2	501.9	513.3	522.0	528.9	533.3	534.2
67.5°	386.9	408.7	429.6	448.8	466.2	482.8	494.1	502.8	509.8	515.0	515.9
70°	365.1	387.8	408.7	429.6	447.0	463.6	475.8	484.5	492.3	495.8	497.6
72.5°	344.2	367.7	389.5	410.4	427.9	444.4	457.5	466.2	474.0	478.4	479.3
75°	324.2	347.7	371.2	391.3	409.6	426.1	439.2	448.8	455.7	460.1	461.8
77.5°	304.1	328.5	352.0	372.1	391.3	407.8	419.1	430.5	437.4	442.7	442.7
80°	284.1	309.3	333.7	353.8	373.0	387.8	400.8	412.2	419.1	424.4	424.4
82.5°	266.6	291.0	314.6	334.6	353.8	370.3	383.4	393.9	401.7	405.2	406.1
85°	246.6	273.6	295.4	317.2	335.5	351.2	364.2	375.6	382.5	386.0	387.8
87.5°	230.0	256.2	279.7	298.9	317.2	332.9	347.7	357.3	364.2	368.6	370.3
90°	214.4	239.6	263.2	282.3	301.5	316.3	330.3	339.8	347.7	351.2	352.9
92.5°	200.4	225.7	248.3	267.5	285.8	302.4	315.4	325.0	332.0	335.5	338.1
95°	187.3	211.7	233.5	254.4	271.9	286.7	300.6	310.2	318.1	320.7	323.3
97.5°	174.3	197.8	219.6	239.6	257.9	271.9	284.9	294.5	300.6	305.0	307.6
100°	163.0	185.6	206.5	225.7	243.1	256.2	270.1	278.8	284.9	288.4	291.9
102.5°	150.8	173.4	193.4	211.7	230.0	242.2	255.3	264.0	269.3	275.4	275.4
105°	140.3	161.2	181.3	198.7	214.4	229.2	240.5	249.2	255.3	259.7	259.7
107.5°	129.0	149.9	169.1	187.3	202.2	216.1	226.6	234.4	241.4	244.0	246.6
110°	120.3	138.6	157.7	175.2	189.1	202.2	212.6	221.3	227.4	230.0	231.8

TEST NUMBER: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.8	129.0	146.4	163.0	176.9	189.1	199.5	206.5	212.6	216.1	217.0
115°	101.1	119.4	135.1	150.8	165.6	176.0	185.6	192.6	198.7	201.3	203.0
117.5°	93.2	109.8	125.5	138.6	152.5	163.8	173.4	179.5	184.7	188.2	190.0
120°	85.4	101.1	115.0	128.1	141.2	151.6	160.3	166.4	172.5	175.2	175.2
122.5°	77.6	92.4	105.4	117.6	129.8	139.4	149.0	154.2	159.5	162.1	162.1
125°	70.6	84.5	96.7	108.1	119.4	128.1	135.9	142.0	147.3	149.0	149.0
127.5°	63.6	76.7	88.0	98.5	108.1	116.8	124.6	130.7	135.1	136.8	136.8
130°	57.5	68.8	79.3	89.8	99.3	106.3	114.2	119.4	122.0	124.6	125.5
132.5°	51.4	61.9	71.5	80.2	89.8	96.7	102.8	108.1	110.7	113.3	114.2
135°	45.3	54.9	63.6	72.3	80.2	87.1	92.4	96.7	100.2	102.0	102.8
137.5°	38.3	48.8	56.6	63.6	72.3	77.6	83.7	86.3	89.8	91.5	91.5
140°	32.2	40.1	48.8	55.8	62.7	68.0	73.2	77.6	80.2	81.0	81.0
142.5°	26.1	33.1	40.1	48.8	54.9	59.3	64.5	68.0	69.7	70.6	71.5
145°	20.9	26.1	32.2	40.1	47.1	52.3	54.9	58.4	60.1	61.0	61.9
147.5°	15.7	20.9	26.1	31.4	38.3	43.6	46.2	49.7	51.4	52.3	52.3
150°	12.2	15.7	19.2	24.4	29.6	35.7	39.2	41.8	42.7	43.6	43.6
152.5°	8.7	12.2	14.8	18.3	21.8	27.0	32.2	34.0	34.9	35.7	35.7
155°	6.1	8.7	10.5	13.1	15.7	20.0	24.4	27.0	27.9	28.8	28.8
157.5°	4.4	6.1	7.0	9.6	11.3	13.1	16.6	20.9	21.8	21.8	21.8
160°	2.6	3.5	4.4	6.1	7.0	8.7	10.5	13.1	15.7	15.7	15.7
162.5°	1.7	2.6	2.6	3.5	3.5	5.2	6.1	7.0	9.6	10.5	10.5
165°	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6	4.4	5.2	5.2
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: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	824.3	826.1	825.2	825.2	825.2	827.0	825.2	817.4	819.1	820.9	822.6
5°	823.5	824.3	824.3	823.5	823.5	825.2	823.5	815.6	817.4	819.1	820.0
7.5°	820.0	820.9	820.9	820.9	820.0	821.7	819.1	812.1	812.1	813.9	814.8
10°	815.6	817.4	816.5	815.6	815.6	815.6	813.9	806.0	806.0	806.9	807.8
12.5°	810.4	810.4	810.4	809.5	808.7	808.7	806.9	799.1	798.2	799.9	799.1
15°	803.4	805.2	803.4	802.6	800.8	800.8	798.2	790.4	788.6	789.5	788.6
17.5°	797.3	798.2	796.5	794.7	793.0	792.1	789.5	780.8	778.2	779.0	777.3
20°	791.2	791.2	789.5	787.7	785.1	782.5	779.0	770.3	766.0	766.0	762.5
22.5°	783.4	783.4	781.6	779.0	776.4	772.9	769.4	760.7	753.8	752.0	749.4
25°	774.7	773.8	772.9	770.3	765.1	761.6	758.1	748.5	740.7	737.2	732.8
27.5°	764.2	764.2	761.6	759.0	753.8	749.4	745.0	736.3	725.9	721.5	715.4
30°	752.9	752.9	750.3	746.8	741.6	736.3	731.1	720.6	710.2	704.1	697.1
32.5°	741.6	740.7	738.1	734.6	729.4	721.5	717.2	706.7	694.5	687.5	677.9
35°	727.6	726.7	724.1	719.8	712.8	706.7	699.7	690.1	676.2	667.5	657.0
37.5°	713.7	712.8	711.1	705.0	698.0	691.0	682.3	672.7	659.6	648.3	637.9
40°	699.7	698.9	695.4	691.0	682.3	673.6	664.9	655.3	641.3	628.3	616.9
42.5°	684.9	684.0	679.7	674.5	664.9	656.2	645.7	635.2	621.3	605.6	594.3
45°	670.1	668.4	664.0	657.9	647.4	637.9	627.4	615.2	601.3	586.4	571.6
47.5°	654.4	651.8	647.4	638.7	630.0	619.6	607.4	594.3	580.3	563.8	548.1
50°	637.0	635.2	630.0	622.2	611.7	601.3	587.3	574.2	557.7	542.0	522.8
52.5°	620.4	616.9	612.6	603.9	593.4	582.1	567.3	551.6	535.0	520.2	500.2
55°	603.0	601.3	595.2	588.2	575.1	562.0	548.1	531.6	513.3	495.8	476.7
57.5°	586.4	583.0	577.7	568.1	556.8	543.8	528.9	511.5	491.5	473.2	452.3
60°	569.9	564.7	558.6	549.9	537.7	523.7	508.0	489.7	469.7	449.6	427.9
62.5°	551.6	547.2	540.3	531.6	519.4	504.5	488.0	468.8	449.6	428.7	405.2
65°	533.3	528.9	522.0	513.3	501.1	484.5	467.1	447.9	426.1	406.1	380.8
67.5°	515.0	510.6	502.8	493.2	481.0	465.3	447.0	427.0	405.2	383.4	357.3
70°	496.7	491.5	484.5	474.0	461.8	445.3	427.0	406.1	384.3	360.8	334.6
72.5°	478.4	474.0	465.3	455.7	442.7	426.1	407.8	386.9	364.2	339.8	313.7
75°	460.1	454.9	448.8	437.4	423.5	407.8	388.6	367.7	343.3	319.8	292.8
77.5°	441.8	437.4	429.6	418.3	405.2	388.6	369.5	348.6	324.2	299.8	271.0
80°	423.5	418.3	412.2	401.7	386.9	370.3	350.3	329.4	305.0	279.7	251.0
82.5°	405.2	400.0	393.0	382.5	368.6	352.0	332.9	310.2	285.8	259.7	232.7
85°	386.9	382.5	374.7	364.2	349.4	332.9	313.7	293.7	267.5	241.4	214.4
87.5°	368.6	364.2	356.4	345.9	332.0	315.4	296.3	275.4	250.1	225.7	196.1
90°	351.2	347.7	339.8	329.4	315.4	298.9	281.5	258.8	234.4	210.0	182.1
92.5°	335.5	332.0	325.0	314.6	302.4	284.1	266.6	244.9	220.5	195.2	168.2
95°	321.5	317.2	310.2	300.6	285.8	270.1	252.7	230.9	207.4	182.1	156.0
97.5°	305.9	301.5	294.5	284.1	271.9	255.3	237.9	217.0	193.4	169.9	143.8
100°	290.2	285.8	278.0	269.3	257.1	240.5	223.9	203.0	181.3	158.6	133.3
102.5°	274.5	270.1	263.2	254.4	242.2	227.4	210.9	190.8	169.1	146.4	122.9
105°	259.7	255.3	248.3	239.6	228.3	213.5	196.1	178.6	157.7	135.9	113.3
107.5°	244.9	240.5	234.4	225.7	214.4	200.4	183.9	165.6	146.4	125.5	103.7
110°	230.0	226.6	219.6	211.7	200.4	186.5	171.7	154.2	135.1	115.9	95.0

TEST NUMBER: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	216.1	212.6	205.6	196.9	187.3	174.3	159.5	142.9	124.6	106.3	86.3
115°	202.2	197.8	191.7	183.9	174.3	162.1	148.1	133.3	115.0	97.6	79.3
117.5°	188.2	184.7	178.6	170.8	162.1	149.9	136.8	122.9	105.4	88.9	72.3
120°	174.3	171.7	165.6	158.6	149.9	138.6	126.4	112.4	96.7	81.0	65.4
122.5°	161.2	158.6	152.5	146.4	137.7	127.2	115.9	102.8	88.9	74.1	60.1
125°	149.0	145.5	140.3	134.2	126.4	116.8	105.4	93.2	80.2	67.1	54.0
127.5°	135.9	133.3	129.8	122.9	115.0	106.3	95.9	85.4	73.2	61.0	48.8
130°	125.5	122.0	117.6	112.4	105.4	96.7	87.1	76.7	66.2	54.9	42.7
132.5°	113.3	109.8	106.3	101.1	95.0	87.1	78.4	68.8	59.3	48.8	38.3
135°	102.0	99.3	95.9	90.6	84.5	78.4	69.7	61.0	52.3	42.7	34.0
137.5°	91.5	88.9	85.4	81.9	75.8	69.7	61.9	54.0	46.2	37.5	29.6
140°	81.0	79.3	75.8	72.3	67.1	61.0	54.0	47.1	40.1	32.2	25.3
142.5°	70.6	68.8	66.2	62.7	58.4	53.2	47.1	41.0	34.0	27.9	21.8
145°	61.0	60.1	57.5	54.0	50.5	45.3	40.1	34.9	28.8	23.5	17.4
147.5°	51.4	50.5	48.8	46.2	42.7	38.3	34.0	28.8	24.4	19.2	13.9
150°	42.7	41.8	41.0	37.5	35.7	31.4	27.9	23.5	20.0	14.8	11.3
152.5°	34.9	34.9	33.1	30.5	28.8	25.3	22.7	19.2	15.7	12.2	8.7
155°	27.9	27.0	26.1	24.4	22.7	20.0	17.4	14.8	12.2	8.7	6.1
157.5°	21.8	20.9	20.0	18.3	16.6	15.7	13.1	10.5	7.8	6.1	4.4
160°	15.7	14.8	13.9	13.1	12.2	10.5	8.7	7.0	5.2	3.5	2.6
162.5°	10.5	9.6	9.6	8.7	7.8	6.1	5.2	4.4	3.5	2.6	1.7
165°	5.2	5.2	4.4	4.4	3.5	2.6	2.6	2.6	1.7	1.7	0.9
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: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	821.7	821.7	825.2	824.3	821.7	827.0	833.1
5°	819.1	819.1	821.7	821.7	819.1	824.3	829.6
7.5°	814.8	813.9	816.5	816.5	813.0	817.4	823.5
10°	806.9	806.0	808.7	808.7	805.2	809.5	814.8
12.5°	798.2	796.5	799.1	798.2	794.7	799.1	804.3
15°	786.9	786.0	787.7	786.0	782.5	786.9	792.1
17.5°	775.5	772.9	773.8	773.8	767.7	772.1	776.4
20°	760.7	757.2	758.1	757.2	752.9	755.5	760.7
22.5°	745.9	740.7	740.7	739.8	734.6	738.1	742.4
25°	727.6	721.5	721.5	720.6	714.5	717.2	721.5
27.5°	709.3	703.2	700.6	699.7	693.6	693.6	699.7
30°	690.1	681.4	679.7	677.1	671.0	671.0	676.2
32.5°	671.8	659.6	656.2	652.7	646.6	645.7	651.8
35°	647.4	637.9	631.8	628.3	621.3	619.6	624.8
37.5°	627.4	615.2	606.5	602.1	595.2	592.5	599.5
40°	605.6	592.5	581.2	578.6	568.1	564.7	570.8
42.5°	581.2	567.3	556.0	550.7	542.9	539.4	540.3
45°	556.8	542.0	529.8	522.8	515.0	508.9	512.4
47.5°	531.6	518.5	503.7	493.2	483.6	479.3	481.0
50°	506.3	490.6	476.7	465.3	454.0	448.8	452.3
52.5°	481.0	464.5	448.8	436.6	423.5	418.3	419.1
55°	456.6	439.2	420.9	407.8	395.6	387.8	386.0
57.5°	432.2	413.0	393.9	379.1	363.4	356.4	353.8
60°	406.1	386.0	366.0	348.6	332.0	324.2	320.7
62.5°	381.7	359.9	337.2	318.9	302.4	291.9	289.3
65°	358.1	332.9	310.2	289.3	271.0	259.7	256.2
67.5°	332.9	306.7	282.3	259.7	242.2	227.4	225.7
70°	309.3	281.5	254.4	230.9	211.7	196.9	190.0
72.5°	285.8	257.1	229.2	203.9	179.5	165.6	160.3
75°	263.2	233.5	203.9	177.8	150.8	134.2	129.0
77.5°	242.2	211.7	180.4	151.6	126.4	105.4	98.5
80°	222.2	190.8	157.7	128.1	101.1	78.4	70.6
82.5°	201.3	171.7	137.7	106.3	78.4	54.9	45.3
85°	183.0	153.4	119.4	88.0	60.1	34.9	24.4
87.5°	168.2	135.9	105.4	74.1	45.3	20.0	7.0
90°	153.4	122.0	91.5	61.0	34.0	11.3	0.9
92.5°	140.3	110.7	80.2	52.3	26.1	7.8	0.9
95°	128.1	99.3	70.6	43.6	20.9	5.2	0.9
97.5°	116.8	89.8	62.7	37.5	17.4	4.4	0.9
100°	107.2	81.0	55.8	33.1	14.8	3.5	0.9
102.5°	97.6	73.2	49.7	28.8	13.1	2.6	0.9
105°	89.8	66.2	44.4	26.1	11.3	2.6	0.9
107.5°	81.9	60.1	40.1	22.7	9.6	1.7	0.9
110°	74.1	54.9	35.7	20.0	8.7	1.7	0.9

TEST NUMBER: P1214052

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	68.0	49.7	32.2	18.3	7.0	1.7	0.9
115°	61.9	44.4	28.8	15.7	6.1	0.9	0.9
117.5°	55.8	40.1	25.3	13.9	5.2	0.9	0.9
120°	50.5	35.7	22.7	12.2	4.4	0.9	0.9
122.5°	45.3	32.2	20.0	10.5	3.5	0.9	0.9
125°	41.0	28.8	17.4	8.7	2.6	0.9	0.9
127.5°	36.6	25.3	15.7	7.8	2.6	0.9	0.9
130°	32.2	22.7	13.1	6.1	1.7	0.9	0.9
132.5°	28.8	19.2	11.3	5.2	1.7	0.9	0.9
135°	25.3	16.6	9.6	3.5	1.7	0.9	0.9
137.5°	21.8	13.9	7.8	2.6	0.9	0.9	0.9
140°	18.3	12.2	6.1	2.6	0.9	0.9	0.9
142.5°	15.7	9.6	4.4	1.7	0.9	0.9	0.9
145°	12.2	7.8	3.5	1.7	0.9	0.9	0.9
147.5°	9.6	6.1	2.6	1.7	0.9	0.9	0.9
150°	7.0	4.4	2.6	0.9	0.9	0.9	0.9
152.5°	5.2	3.5	1.7	0.9	0.9	0.9	0.9
155°	3.5	2.6	1.7	0.9	0.9	0.9	0.9
157.5°	2.6	1.7	0.9	0.9	0.9	0.9	0.9
160°	1.7	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)