

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: P1212967

Luminaire Tested: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

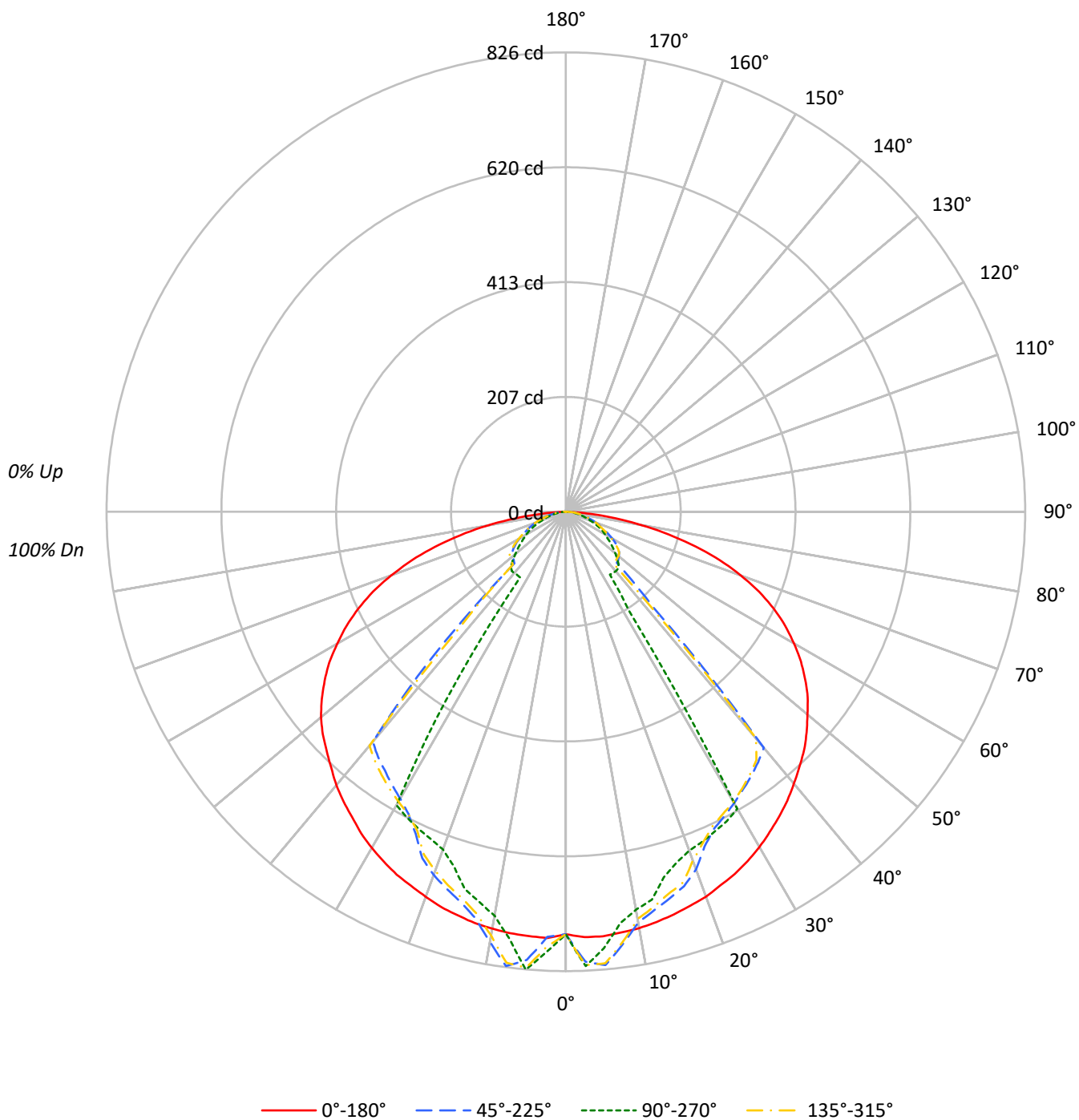
Lumens per Lamp: N/A
Luminaire Lumens: 1521.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12275	12275	12275	12275
5°	12363	12368	12357	12981
10°	12340	11183	12358	11354
15°	12334	10346	12362	10674
20°	12387	9813	12387	9777
25°	12455	9625	12474	9535
30°	12540	9456	12571	9344
35°	12640	2153	12667	2247
40°	12792	2240	12868	2312
45°	13036	2227	13081	2308
50°	13271	2013	13448	2067
55°	13589	1789	13697	1814
60°	13819	1589	13848	1610
65°	13911	1386	13877	1364
70°	13506	1117	13462	1077
75°	12249	861	12340	824
80°	9545	610	9930	559
85°	4705	365	4965	280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 14219 cd/sqm

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	4.9
10°-20°	205.5	13.5
20°-30°	304.3	20.0
30°-40°	306.7	20.2
40°-50°	239.5	15.7
50°-60°	185.0	12.2
60°-70°	124.2	8.2
70°-80°	63.4	4.2
80°-90°	17.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	584.5	38.4
0°-40°	891.2	58.6
0°-60°	1315.8	86.5
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	760	760	760	760	760	
5°	766	787	766	826	766	73
15°	750	680	751	702	750	212
25°	719	634	720	628	719	332
35°	669	138	670	144	669	419
45°	606	134	608	139	606	467
55°	525	98	530	99	525	469
65°	412	65	412	64	412	406
75°	242	33	244	32	242	253
85°	44	10	46	8	44	60
90°	0	0	0	0	0	

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	765.5	768.3	770.3	771.7	772.4	772.4	772.8	773.1	777.6	779.7	781.1
5°	766.2	768.9	773.1	778.7	783.6	787.7	791.2	796.1	801.0	806.2	807.9
7.5°	763.0	766.5	774.9	785.0	794.4	801.0	805.5	808.6	811.1	811.4	813.2
10°	760.2	766.5	778.0	791.2	803.1	811.1	811.1	809.3	811.8	802.4	793.0
12.5°	755.4	762.3	778.0	795.4	806.5	809.7	808.3	801.3	787.0	775.6	770.3
15°	749.5	758.9	778.3	797.8	807.2	808.3	795.1	777.3	766.5	759.5	750.8
17.5°	742.8	755.4	778.7	798.2	801.7	796.8	771.7	760.6	749.5	733.1	721.3
20°	736.6	748.8	775.9	793.3	795.4	773.5	754.0	742.1	723.3	709.1	703.9
22.5°	726.8	741.1	773.5	786.7	778.7	753.3	734.5	715.7	698.6	694.5	688.2
25°	718.8	733.8	767.9	778.7	757.5	734.8	712.9	691.0	683.0	677.0	671.5
27.5°	708.0	726.5	760.6	764.1	734.8	715.0	683.0	673.2	665.9	659.3	656.9
30°	696.2	718.8	750.5	743.9	716.0	686.8	663.1	654.1	648.9	641.9	639.1
32.5°	682.6	707.3	739.4	720.6	695.8	659.3	644.0	637.0	630.1	624.8	607.4
35°	668.7	697.2	726.1	698.3	671.5	638.4	624.8	618.6	612.0	592.8	574.7
37.5°	654.4	686.1	710.1	674.3	639.1	616.8	605.3	598.4	583.4	559.0	550.0
40°	638.1	672.5	689.6	649.5	610.9	594.9	584.1	577.1	543.4	532.6	529.8
42.5°	621.7	659.3	664.5	625.5	587.6	571.6	562.5	539.6	516.6	511.0	512.1
45°	606.0	645.0	637.0	591.4	563.2	550.0	534.7	503.0	490.8	493.6	494.3
47.5°	587.2	628.0	608.1	557.3	538.2	524.9	490.8	471.7	469.9	473.8	475.8
50°	567.1	608.8	577.5	526.3	511.0	495.3	456.7	447.0	449.0	452.9	455.3
52.5°	548.3	587.2	545.8	497.4	484.2	448.3	422.2	424.0	427.5	432.0	433.4
55°	525.3	561.1	512.1	468.2	455.7	408.7	396.8	401.0	404.5	408.3	411.1
57.5°	501.3	531.2	472.0	435.5	415.3	373.5	374.6	377.3	379.8	384.3	158.7
60°	473.8	497.1	428.2	405.2	365.2	345.7	346.7	351.6	354.0	197.7	109.3
62.5°	445.2	457.4	388.5	370.7	319.2	317.8	322.7	324.8	221.0	104.4	102.3
65°	412.5	410.1	349.5	321.3	287.9	289.3	294.5	284.0	97.8	97.8	97.1
67.5°	376.3	361.7	311.5	265.9	257.6	260.7	266.3	92.9	90.5	91.2	88.8
70°	334.9	314.3	272.2	225.2	228.0	231.1	89.8	84.2	83.2	81.5	76.6
72.5°	291.0	262.8	222.8	195.6	197.4	123.9	78.7	75.9	72.4	68.9	63.7
75°	241.9	205.4	163.6	163.6	166.0	70.7	68.6	64.0	60.2	55.7	52.6
77.5°	189.7	158.0	127.1	131.9	64.4	59.2	55.3	50.5	47.3	44.6	42.8
80°	138.9	110.3	95.7	85.6	50.1	44.9	41.1	38.3	36.9	35.2	33.1
82.5°	91.2	66.5	66.5	40.4	35.2	31.0	29.9	27.8	26.5	25.4	24.4
85°	43.5	38.6	29.2	24.7	21.9	19.8	19.1	18.1	18.1	17.8	17.4
87.5°	16.0	17.4	12.9	12.5	11.8	11.5	11.8	11.8	12.2	11.8	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	784.6	787.4	789.5	793.0	797.5	801.3	804.8	809.7	817.3	819.4	821.2
5°	807.9	809.0	811.4	814.2	814.9	816.6	816.3	818.4	819.4	821.9	816.6
7.5°	809.3	803.8	797.1	791.2	787.0	783.2	780.8	784.6	786.7	788.4	783.2
10°	780.1	773.5	769.6	766.2	762.0	756.1	748.1	749.8	749.1	749.1	747.4
12.5°	761.6	752.2	742.5	733.8	730.0	729.6	730.0	733.8	733.8	733.4	731.4
15°	732.7	723.7	718.8	716.7	716.7	715.7	715.7	719.9	718.8	718.8	717.8
17.5°	713.6	707.3	703.9	701.4	700.4	702.1	704.2	705.9	706.3	704.9	699.3
20°	697.9	692.0	687.8	688.5	688.2	689.2	690.3	684.4	677.0	667.3	662.8
22.5°	681.6	677.0	673.9	673.9	669.7	663.1	653.4	651.3	650.2	645.7	641.9
25°	665.9	660.7	656.2	642.2	633.5	634.6	632.8	629.4	629.0	628.7	630.1
27.5°	650.2	636.7	619.3	617.2	613.7	613.3	615.4	617.2	617.2	618.6	620.3
30°	617.9	602.2	599.1	595.2	596.6	601.5	602.6	605.0	605.7	608.1	609.5
32.5°	588.3	581.3	578.5	580.3	584.8	589.0	591.4	592.5	594.2	596.3	598.0
35°	564.3	562.2	564.6	568.4	573.0	576.4	578.5	580.6	582.4	584.1	585.5
37.5°	546.5	547.9	551.4	556.3	560.8	563.6	565.3	567.7	570.2	572.3	563.9
40°	529.8	533.3	537.1	542.3	546.2	548.9	550.7	553.8	532.9	241.2	132.3
42.5°	515.2	519.0	521.8	526.0	530.2	532.2	516.9	230.8	130.5	129.8	131.6
45°	497.4	500.6	505.1	508.2	512.1	336.3	128.4	129.8	127.8	129.1	129.8
47.5°	479.3	484.2	486.6	464.4	138.2	127.8	126.4	127.8	126.4	128.1	127.1
50°	458.8	464.7	330.7	125.0	123.9	123.2	124.6	123.9	125.0	126.4	123.6
52.5°	437.9	271.2	121.1	120.4	121.1	120.4	122.9	121.1	121.5	120.1	116.6
55°	148.3	117.3	116.3	115.9	118.0	118.0	118.0	115.2	113.5	110.0	107.6
57.5°	113.5	113.5	113.1	113.5	112.8	112.1	109.0	106.5	104.1	99.2	97.8
60°	107.6	107.6	107.6	107.6	104.4	103.0	98.2	96.1	91.9	89.5	88.1
62.5°	102.7	102.0	98.9	97.8	94.3	90.5	87.7	85.6	81.5	80.1	79.0
65°	95.7	93.3	89.5	85.3	83.5	79.4	78.0	74.8	72.8	71.7	71.0
67.5°	84.2	80.8	77.6	74.8	71.7	70.3	68.6	66.1	64.7	64.0	63.4
70°	72.1	69.6	66.5	64.7	62.7	61.6	59.2	58.5	57.4	56.4	55.3
72.5°	60.2	58.8	57.4	55.0	54.3	53.6	51.2	49.8	48.4	47.0	46.3
75°	50.5	49.4	48.7	46.6	45.6	43.5	41.8	40.7	39.7	38.6	37.9
77.5°	41.4	40.7	38.6	37.2	36.6	34.8	34.1	34.5	33.8	32.4	31.7
80°	32.4	31.7	29.9	29.9	29.2	28.5	27.8	27.2	26.5	25.4	24.7
82.5°	24.7	24.0	23.3	22.6	21.9	21.6	21.2	20.5	19.8	19.1	18.8
85°	17.4	17.1	16.7	16.4	16.0	15.7	15.3	14.6	13.9	13.6	13.2
87.5°	11.8	11.5	11.1	10.8	10.4	10.1	9.7	9.4	8.7	8.4	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	821.2	822.9	821.2	817.3	814.9	813.9	815.9	815.9	817.3	819.1	819.4
5°	808.3	804.1	799.2	794.4	791.9	790.5	786.7	787.4	788.4	789.1	789.8
7.5°	776.3	770.7	764.1	757.8	755.4	753.3	748.8	748.8	748.8	749.1	751.2
10°	743.5	741.1	738.3	734.1	731.0	730.0	726.1	727.2	726.5	727.5	730.0
12.5°	728.2	725.4	723.0	718.8	715.3	713.9	712.2	713.3	712.9	714.6	716.7
15°	714.3	712.9	710.1	707.0	703.9	701.1	694.8	692.7	691.3	689.6	692.0
17.5°	691.3	681.6	675.0	670.1	666.6	664.2	662.4	662.4	663.5	664.5	666.6
20°	660.0	657.2	654.1	648.9	645.4	644.0	642.9	642.9	644.7	646.1	649.9
22.5°	638.4	638.1	637.0	634.6	632.8	632.8	633.2	633.9	636.3	638.4	642.2
25°	628.3	629.7	629.0	627.6	626.6	626.9	626.2	626.9	629.4	631.4	634.6
27.5°	620.3	622.4	621.7	619.6	617.9	618.6	619.6	618.9	621.0	623.4	625.9
30°	609.5	609.9	611.3	608.8	608.1	609.2	609.5	610.2	612.3	614.0	616.1
32.5°	597.3	600.1	599.8	597.3	597.3	598.4	598.7	575.4	531.9	458.1	437.9
35°	585.5	588.6	583.4	491.9	340.4	181.7	140.3	135.4	136.5	137.2	137.8
37.5°	433.0	205.4	130.9	131.9	133.0	134.0	135.1	136.1	137.2	138.2	138.5
40°	130.2	129.8	130.9	132.3	133.3	134.0	135.4	136.5	137.5	138.5	138.9
42.5°	128.8	129.5	130.5	131.9	133.3	134.7	135.8	137.2	137.8	138.5	138.9
45°	128.1	129.5	130.9	131.9	133.0	133.7	134.4	134.7	134.4	134.4	135.1
47.5°	127.1	128.4	128.8	128.4	128.8	128.4	128.4	128.4	127.4	127.1	127.1
50°	123.2	123.2	122.5	121.1	120.8	120.4	119.7	119.4	118.0	117.7	117.7
52.5°	115.2	114.9	113.8	112.1	111.4	110.7	110.3	110.0	108.6	107.9	108.3
55°	105.8	105.1	104.1	102.0	101.6	100.9	100.6	100.3	98.9	99.6	98.5
57.5°	97.1	95.7	94.3	94.0	92.6	92.2	91.9	91.5	90.5	90.9	90.2
60°	86.7	86.3	85.6	84.2	84.2	83.9	83.9	83.2	82.5	82.2	82.2
62.5°	79.0	78.0	77.3	77.3	76.2	76.2	76.2	75.5	74.8	75.2	74.8
65°	70.7	70.3	70.0	69.3	69.3	68.9	68.9	68.2	67.2	67.5	66.8
67.5°	63.7	63.0	62.3	62.0	60.6	59.9	59.5	59.2	57.8	58.1	57.4
70°	55.0	54.0	53.3	52.6	51.5	50.8	50.8	50.1	49.1	49.4	48.7
72.5°	45.9	45.3	44.6	44.2	43.2	42.8	42.5	42.1	41.1	41.4	41.1
75°	38.3	38.3	37.9	37.6	36.6	35.5	34.8	34.5	33.8	34.1	33.4
77.5°	31.7	31.0	30.3	30.3	29.2	28.5	27.8	27.8	27.8	27.5	27.2
80°	24.7	24.0	24.0	23.7	23.0	22.3	21.9	21.9	21.6	21.6	21.2
82.5°	18.8	18.1	17.8	17.8	17.1	16.7	16.4	16.0	16.0	16.0	15.7
85°	13.2	12.5	12.2	12.2	11.5	11.1	11.1	10.8	10.8	10.4	10.4
87.5°	8.0	7.7	7.3	7.3	6.6	6.3	6.3	6.3	5.9	5.9	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	819.4	819.4	817.0	817.7	816.6	818.0	816.3	816.3	818.4	818.4	819.8
5°	790.2	788.4	788.1	787.4	783.9	785.3	783.6	781.8	784.3	784.3	787.4
7.5°	750.1	747.0	748.4	746.3	744.2	741.1	742.1	740.8	742.5	744.9	748.1
10°	729.6	726.8	728.6	726.5	727.5	723.0	723.3	723.7	725.4	726.1	728.9
12.5°	716.4	715.7	715.0	714.3	715.0	712.6	711.2	711.5	712.2	712.6	714.6
15°	688.5	684.0	685.4	680.5	680.9	681.2	678.4	681.2	680.9	685.4	689.6
17.5°	665.9	665.9	663.5	661.4	660.0	659.6	657.6	658.9	657.6	660.3	661.4
20°	650.2	649.9	649.5	648.5	645.0	645.4	646.4	643.3	642.9	642.6	644.7
22.5°	642.9	643.3	641.9	641.9	638.8	639.5	639.8	636.3	636.7	635.6	636.7
25°	635.3	636.0	634.2	634.2	633.5	633.2	631.4	632.1	630.1	628.3	630.1
27.5°	626.2	627.6	626.2	626.9	625.5	624.8	623.8	623.1	621.0	620.7	621.7
30°	617.9	618.6	618.2	616.5	616.1	614.0	615.1	613.0	610.9	611.3	612.0
32.5°	316.8	302.5	233.2	210.6	208.5	216.2	256.2	311.9	404.1	493.6	558.0
35°	138.2	138.2	138.2	137.8	137.8	137.5	137.2	136.8	136.5	136.1	135.8
37.5°	138.9	138.9	138.9	138.9	138.5	138.2	138.2	137.5	137.2	136.8	136.5
40°	139.2	139.6	139.6	139.6	139.2	139.2	138.9	138.2	137.8	137.2	136.5
42.5°	138.9	139.2	139.2	138.9	138.9	138.5	138.5	138.2	137.8	137.5	137.2
45°	134.4	134.7	134.0	134.0	133.7	133.7	133.7	133.7	133.7	134.0	134.0
47.5°	126.4	126.4	126.0	125.7	125.7	125.3	125.7	125.3	126.0	126.4	127.1
50°	117.0	117.0	116.3	115.9	115.9	115.9	115.9	116.3	116.6	117.3	118.0
52.5°	107.2	107.2	106.9	106.5	106.2	106.2	107.2	106.9	107.2	107.6	108.6
55°	97.8	98.2	97.5	97.5	97.1	97.1	97.1	97.5	97.8	98.2	99.2
57.5°	89.8	89.8	89.1	89.1	89.1	88.8	89.8	89.1	89.5	89.8	90.5
60°	81.8	81.5	81.5	81.1	81.1	81.1	81.8	81.5	81.5	81.8	82.5
62.5°	74.5	74.5	74.1	74.1	73.8	73.8	74.5	74.1	74.1	74.5	74.8
65°	66.1	66.1	65.8	65.4	66.5	65.4	66.5	65.8	66.5	66.8	67.5
67.5°	56.7	56.7	56.7	56.4	56.4	57.1	57.4	56.7	57.1	57.8	58.1
70°	48.4	48.4	48.0	48.0	48.0	48.7	49.1	48.4	48.7	49.1	49.8
72.5°	41.1	40.4	40.4	40.0	40.7	40.7	41.1	40.7	41.1	41.1	41.8
75°	33.8	33.1	33.1	33.1	33.8	33.4	33.8	33.4	33.8	33.8	34.1
77.5°	27.2	26.8	26.5	26.5	27.2	27.2	27.2	26.8	27.2	27.5	27.8
80°	21.2	20.9	20.5	20.5	21.2	21.2	21.2	21.6	21.2	21.6	21.9
82.5°	15.7	15.3	15.0	15.7	15.7	15.7	15.7	16.0	15.7	16.0	16.4
85°	10.4	10.1	9.7	10.4	10.4	10.4	10.4	10.8	10.4	10.8	11.1
87.5°	5.6	5.2	5.2	5.6	5.6	5.6	5.9	5.9	5.9	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	821.9	822.9	822.6	820.5	818.4	815.9	814.2	814.5	818.0	819.1	815.9
5°	787.4	794.0	794.0	798.5	796.1	794.0	795.4	803.1	806.9	812.8	814.9
7.5°	751.9	755.0	754.7	759.2	758.5	758.5	759.5	769.6	774.5	779.4	780.8
10°	732.0	735.2	734.8	735.2	734.1	731.7	731.7	736.2	740.4	742.8	743.5
12.5°	717.8	719.5	719.2	719.2	718.5	716.4	716.0	719.9	724.4	727.5	727.9
15°	696.5	701.4	702.5	707.0	705.9	703.2	703.9	707.0	709.8	712.6	711.5
17.5°	664.9	667.3	667.7	669.4	668.7	668.7	672.9	684.4	692.0	698.6	699.3
20°	646.8	648.5	647.8	651.6	649.9	649.5	650.6	655.5	658.9	662.1	667.7
22.5°	638.1	639.5	638.4	638.8	635.6	632.8	632.1	636.0	639.8	644.0	644.0
25°	630.8	631.8	631.4	630.8	628.3	624.5	623.8	624.5	625.9	626.2	623.8
27.5°	622.0	622.7	622.7	623.1	620.0	616.5	615.8	615.1	616.5	616.1	612.3
30°	613.0	612.0	612.3	612.7	609.9	606.7	605.3	605.0	606.4	606.0	602.2
32.5°	591.4	599.4	600.1	600.8	598.4	595.6	594.2	593.2	593.9	593.5	590.0
35°	135.4	137.8	168.8	382.2	519.0	574.7	580.6	579.2	579.6	579.6	576.8
37.5°	135.8	135.4	135.1	134.0	133.0	132.3	228.7	487.7	565.0	565.3	562.9
40°	135.8	135.4	135.1	134.4	133.0	131.9	130.2	128.8	131.9	290.3	531.2
42.5°	136.5	135.8	135.1	134.4	133.0	131.6	130.2	128.4	129.5	128.8	127.1
45°	134.4	134.0	134.0	133.7	133.0	131.6	129.8	127.8	126.7	127.8	126.0
47.5°	127.8	128.1	129.1	129.5	129.5	129.8	128.8	127.4	125.7	126.7	124.6
50°	118.7	119.4	119.7	121.5	122.2	123.6	123.9	123.9	123.6	125.0	123.6
52.5°	109.0	109.7	111.4	112.1	112.8	114.9	115.6	116.6	117.3	119.4	120.8
55°	99.6	99.9	100.6	102.0	103.0	104.8	105.8	106.9	108.6	109.7	113.8
57.5°	90.9	91.2	92.6	92.9	93.6	95.0	96.1	97.5	98.9	99.6	104.4
60°	82.5	82.8	83.9	84.2	84.6	86.0	87.0	88.1	89.1	89.8	93.3
62.5°	75.2	75.2	76.2	76.2	76.6	77.6	78.3	79.0	80.1	80.4	82.2
65°	67.9	68.2	68.9	68.9	69.3	70.0	70.3	70.7	71.7	71.7	73.1
67.5°	58.8	59.2	60.2	60.9	61.3	62.7	63.0	63.4	64.0	64.4	65.1
70°	50.1	50.5	51.5	51.9	52.2	53.3	54.0	55.0	56.0	57.1	57.8
72.5°	42.1	42.5	43.5	43.5	44.6	44.9	45.6	45.9	47.0	47.7	48.7
75°	34.5	34.8	35.9	35.9	36.9	37.2	37.6	37.9	38.6	39.3	40.0
77.5°	28.2	28.2	29.6	30.3	31.0	31.0	31.3	31.3	31.3	31.7	32.4
80°	22.3	22.3	23.3	24.0	24.7	24.7	25.1	25.4	25.8	25.8	26.1
82.5°	16.7	16.7	17.8	18.1	18.8	18.8	18.8	19.1	19.5	19.1	19.8
85°	11.5	11.5	12.2	12.5	13.2	13.2	13.2	13.6	13.9	13.6	13.9
87.5°	6.6	7.0	7.3	7.7	8.0	8.4	8.4	8.4	8.7	8.7	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	812.5	808.3	807.9	803.1	801.7	802.0	798.2	796.8	790.5	789.1	782.5
5°	815.6	817.7	816.6	816.3	817.3	816.6	813.9	812.5	811.4	808.6	803.1
7.5°	781.1	782.5	783.6	788.1	791.9	798.5	805.5	810.0	813.5	814.2	809.7
10°	746.0	752.6	757.1	764.1	769.6	773.5	777.6	781.5	791.6	801.7	807.6
12.5°	727.9	729.6	729.3	733.1	736.9	747.0	756.8	762.3	770.0	774.5	785.3
15°	712.6	712.9	713.9	716.7	718.8	722.3	726.8	735.2	750.5	757.5	763.4
17.5°	698.6	698.6	699.3	701.8	704.5	707.7	710.5	713.9	721.6	733.1	747.7
20°	676.4	686.1	687.1	686.8	688.2	694.1	694.8	701.1	704.9	709.4	723.7
22.5°	643.3	649.2	657.6	670.4	675.3	678.1	680.2	683.0	688.9	694.1	700.0
25°	625.2	629.0	631.4	635.3	645.4	661.7	664.9	668.0	671.8	675.7	683.0
27.5°	609.2	608.8	610.6	614.0	616.8	625.5	640.8	653.0	653.7	659.3	665.6
30°	597.7	595.6	593.2	592.5	596.3	600.8	605.3	624.5	637.7	640.5	647.1
32.5°	586.9	583.4	579.9	577.1	574.7	578.5	581.3	589.7	606.7	622.7	626.2
35°	573.7	570.2	566.0	562.9	559.0	558.7	558.3	566.4	571.9	591.1	607.8
37.5°	560.1	556.3	552.8	549.3	545.5	542.7	540.9	543.0	548.3	556.6	584.5
40°	545.8	541.3	537.8	535.0	529.8	527.7	524.2	522.8	523.2	530.5	545.1
42.5°	326.2	520.1	521.8	518.7	514.1	511.4	507.5	505.8	502.3	505.8	514.1
45°	125.7	127.1	380.5	502.7	497.1	493.6	490.1	488.4	484.6	481.8	489.4
47.5°	123.2	124.6	121.8	172.7	474.5	475.5	471.3	469.6	465.8	463.7	461.6
50°	121.5	122.5	120.4	121.1	118.7	434.8	452.2	450.1	445.9	443.5	439.3
52.5°	119.7	119.7	118.4	116.6	115.9	116.3	365.9	430.2	425.4	422.9	417.4
55°	114.2	114.9	116.3	113.5	112.8	112.4	111.4	348.4	402.7	400.0	395.1
57.5°	105.8	107.2	111.0	110.3	110.3	107.6	106.9	106.9	323.4	376.6	371.8
60°	96.1	97.5	101.6	103.0	104.1	103.4	102.7	102.3	100.9	340.8	347.1
62.5°	86.0	87.4	88.8	93.3	94.7	96.4	98.5	97.5	96.1	96.1	320.9
65°	75.2	77.3	78.0	82.2	83.9	87.0	88.8	91.2	90.5	90.2	91.9
67.5°	65.8	68.2	68.6	70.3	73.4	74.8	76.9	81.5	83.5	84.2	84.9
70°	57.8	59.2	60.2	60.9	63.0	63.4	67.2	70.3	73.4	76.9	78.0
72.5°	49.8	50.8	52.9	52.2	52.9	54.3	56.4	58.5	61.6	66.5	69.6
75°	40.7	41.4	42.8	43.5	44.9	45.9	47.3	49.1	51.9	54.3	58.5
77.5°	32.7	33.1	34.1	34.5	35.9	36.9	39.3	40.4	42.1	43.9	46.3
80°	26.5	26.5	26.8	26.8	27.8	28.9	30.6	31.7	33.8	35.2	35.2
82.5°	20.2	20.2	21.2	21.2	21.9	21.9	23.0	23.0	24.0	24.7	25.4
85°	14.3	14.6	15.3	15.0	15.7	15.3	16.0	16.7	17.1	16.7	16.4
87.5°	9.4	9.4	10.1	9.7	10.1	10.1	10.8	10.8	11.1	11.1	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	780.1	774.9	771.7	767.9	766.9	765.8	767.2	767.2	765.1	763.4	760.2
5°	798.2	792.6	786.7	780.4	774.5	768.3	765.8	765.5	761.6	759.5	758.5
7.5°	807.6	804.8	798.2	789.5	780.4	769.3	764.4	761.6	757.8	757.1	757.1
10°	808.6	805.5	802.0	795.8	785.3	770.7	761.3	755.7	752.2	754.7	759.2
12.5°	798.5	804.5	801.3	797.1	788.8	771.0	757.5	749.1	748.1	754.3	766.2
15°	772.8	790.2	798.9	794.7	788.1	770.3	751.2	741.4	741.4	754.3	769.6
17.5°	753.3	766.9	788.1	791.6	783.9	768.9	745.3	733.8	736.9	755.7	772.1
20°	737.3	745.6	766.2	785.7	778.3	765.8	736.6	724.7	731.0	753.6	775.6
22.5°	712.2	728.9	741.4	770.3	772.8	759.9	727.9	713.6	726.1	753.6	773.8
25°	687.8	708.0	721.3	749.5	764.4	752.6	719.9	701.8	720.9	752.6	772.4
27.5°	670.8	680.2	704.2	724.4	751.9	742.8	709.1	688.9	714.3	747.0	764.4
30°	652.7	658.9	682.6	701.8	735.2	731.7	697.9	674.6	705.9	741.8	743.5
32.5°	632.8	639.8	652.0	679.8	711.9	721.3	685.4	660.3	696.9	733.8	719.2
35°	612.7	617.9	627.6	657.6	684.7	705.6	670.1	644.0	690.6	721.6	695.8
37.5°	592.5	598.0	606.4	631.4	656.2	691.0	656.9	627.6	679.1	700.0	671.5
40°	573.3	576.4	585.2	600.8	632.5	676.0	641.9	610.6	667.3	672.5	638.4
42.5°	538.2	553.8	561.8	574.4	605.7	655.5	624.5	592.5	654.1	645.0	605.3
45°	500.2	534.3	537.8	550.3	582.0	633.5	608.1	574.7	641.5	621.4	574.0
47.5°	469.2	494.0	514.1	524.6	553.8	607.8	592.8	559.7	622.7	591.4	543.4
50°	441.7	455.0	491.5	499.2	520.1	576.8	574.7	542.3	596.6	553.8	513.4
52.5°	414.9	424.3	457.4	473.8	490.8	543.4	553.1	525.3	568.1	516.2	483.2
55°	391.6	394.7	412.8	447.3	462.6	509.6	529.5	505.4	531.9	480.4	453.9
57.5°	367.6	364.8	378.0	422.2	433.4	475.2	504.4	485.2	502.7	443.8	423.6
60°	342.5	338.7	344.3	373.5	402.4	441.0	474.8	463.0	467.1	407.6	389.9
62.5°	316.4	312.6	310.9	329.3	372.1	405.9	444.9	438.3	423.6	374.6	348.1
65°	289.3	285.4	282.7	290.0	338.7	360.3	411.5	409.7	375.9	339.7	293.1
67.5°	88.1	259.7	253.8	253.4	285.4	318.9	375.2	372.5	327.9	302.5	252.4
70°	79.4	210.6	223.8	220.7	234.6	276.7	333.8	331.7	281.3	242.6	223.1
72.5°	72.8	74.5	197.7	194.2	197.4	235.3	290.7	285.1	238.4	191.5	192.8
75°	62.3	65.4	68.2	164.0	159.8	194.9	243.7	235.0	196.7	158.0	161.2
77.5°	50.8	54.7	56.7	119.4	129.1	138.9	194.6	183.1	135.4	126.4	60.2
80°	37.9	41.1	44.6	47.7	98.2	97.1	144.5	133.0	94.3	78.7	47.0
82.5°	27.8	28.9	31.0	34.5	39.0	65.1	92.9	81.8	65.4	35.9	32.4
85°	17.4	18.8	19.8	20.9	23.7	39.0	45.9	36.6	27.5	21.9	20.5
87.5°	11.1	11.1	10.8	11.1	11.5	13.9	15.7	15.0	11.8	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	756.8	751.9	751.9	750.5	751.5	751.5	751.2	751.5	754.0	755.4	757.8
5°	756.4	755.0	758.2	762.0	766.5	772.1	773.5	778.3	782.9	788.8	795.1
7.5°	760.9	765.8	771.7	778.0	787.0	793.7	799.6	805.5	809.7	815.2	818.7
10°	767.6	777.3	787.4	795.4	805.1	810.7	814.5	815.2	809.3	799.9	792.3
12.5°	777.0	788.4	797.8	805.5	810.0	807.9	796.8	785.3	778.7	768.9	755.4
15°	785.0	795.4	805.1	802.0	789.8	778.3	769.6	756.1	742.8	733.8	727.9
17.5°	788.4	798.5	795.1	778.7	767.2	754.0	736.2	725.8	717.1	710.1	706.6
20°	790.5	788.8	770.0	758.2	735.9	723.7	712.2	702.5	695.8	692.4	691.7
22.5°	785.0	763.7	747.7	726.5	710.1	700.0	691.0	683.0	678.4	675.7	673.9
25°	766.5	741.8	718.1	701.4	687.5	678.8	671.8	665.2	659.6	658.3	654.8
27.5°	740.8	720.6	689.2	676.4	664.2	660.0	652.3	645.7	640.8	636.7	625.5
30°	719.5	687.5	664.9	653.0	645.7	640.8	632.1	625.2	616.8	601.5	595.2
32.5°	693.4	661.7	640.2	633.5	624.5	620.3	610.6	595.2	582.4	576.1	575.8
35°	659.6	633.5	617.9	612.0	604.6	597.7	577.5	563.6	557.3	558.0	563.2
37.5°	631.4	608.1	598.0	589.7	581.3	563.6	546.5	539.9	541.6	545.1	547.6
40°	602.9	585.2	573.7	567.1	548.3	530.8	521.8	524.2	527.4	529.8	532.9
42.5°	575.1	562.5	551.0	538.2	512.4	503.0	505.1	508.2	511.0	514.5	517.6
45°	548.6	537.5	524.2	495.0	482.1	484.6	487.7	490.1	494.3	496.7	499.9
47.5°	523.5	511.7	488.4	462.6	461.2	466.1	468.9	472.0	475.2	468.9	258.6
50°	495.3	483.2	447.7	437.9	441.0	445.6	449.0	452.2	402.7	160.1	123.2
52.5°	467.5	436.5	413.9	416.7	419.8	425.0	427.5	317.5	126.4	120.4	120.8
55°	436.5	396.8	390.2	393.7	396.5	401.7	266.3	116.6	115.9	115.6	118.4
57.5°	387.8	363.8	366.5	370.0	372.8	263.2	113.5	112.8	113.1	113.5	113.8
60°	344.3	339.0	342.2	345.3	244.4	109.7	107.6	107.9	109.3	108.3	105.5
62.5°	309.8	314.0	317.1	277.8	104.1	103.0	104.1	103.0	100.6	98.9	95.4
65°	283.4	287.5	290.0	97.8	97.5	98.9	97.8	94.3	90.5	85.6	84.6
67.5°	255.5	259.7	92.9	90.5	91.9	90.2	86.0	81.8	79.0	74.8	73.1
70°	226.6	97.1	84.2	83.9	81.5	78.7	74.1	70.0	66.5	64.7	63.0
72.5°	163.6	76.9	75.9	73.1	68.9	65.1	61.3	58.8	57.1	56.0	55.0
75°	68.2	66.8	63.7	58.8	54.7	52.9	50.1	48.4	47.7	45.6	44.9
77.5°	57.1	54.3	49.8	46.3	43.9	42.8	40.7	38.6	37.6	37.2	35.9
80°	43.9	40.0	37.9	36.2	35.5	33.1	30.6	29.6	28.9	28.5	27.5
82.5°	29.9	28.5	27.2	24.7	24.7	23.7	22.6	21.9	21.2	21.2	20.5
85°	19.5	18.4	18.1	17.1	17.1	16.4	16.0	15.7	15.3	15.0	14.6
87.5°	11.1	11.1	11.5	11.1	11.1	10.8	10.4	10.1	9.7	9.7	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	760.9	764.4	765.1	777.0	783.6	783.2	781.1	787.4	783.6	781.5	783.6
5°	801.3	805.5	809.0	821.9	826.4	828.5	828.1	831.6	828.8	826.4	826.4
7.5°	821.2	822.6	823.9	820.8	818.7	815.2	810.0	802.4	798.5	794.4	789.1
10°	788.4	783.9	785.7	779.4	774.2	770.3	765.5	759.2	754.0	750.1	744.2
12.5°	748.4	748.1	748.8	749.8	744.6	741.4	737.6	733.1	729.3	725.1	720.2
15°	724.0	724.4	727.2	726.1	724.4	722.6	718.5	717.1	713.6	709.1	706.3
17.5°	706.6	708.4	711.2	709.8	707.0	705.2	702.1	699.0	695.8	692.4	688.2
20°	691.3	693.1	694.8	693.1	687.8	685.4	681.2	671.5	664.5	657.6	651.3
22.5°	674.6	675.7	674.3	668.7	655.5	649.2	644.3	641.5	635.6	631.8	628.0
25°	653.7	647.8	638.8	632.5	627.3	624.5	622.4	622.0	621.4	620.7	618.9
27.5°	619.6	617.5	612.7	610.2	610.6	611.6	612.0	613.0	612.0	610.6	609.2
30°	594.2	595.2	595.6	596.3	598.0	599.1	599.4	600.8	600.1	599.1	598.4
32.5°	578.2	580.6	582.0	584.1	585.2	586.9	586.9	589.0	586.9	586.5	585.8
35°	565.0	567.1	567.7	570.9	571.9	573.7	573.7	575.4	573.7	555.9	439.0
37.5°	551.7	553.8	555.2	558.0	558.3	559.4	516.2	377.7	243.7	188.7	144.1
40°	536.1	538.5	539.9	540.9	380.1	241.2	166.0	135.1	135.1	136.1	137.2
42.5°	519.4	521.1	363.1	211.3	131.6	131.2	132.3	133.3	134.4	135.8	137.2
45°	408.3	206.1	130.9	127.8	128.8	130.2	131.6	133.0	134.7	136.1	136.8
47.5°	134.0	125.7	127.4	126.0	127.8	129.5	130.9	132.3	132.6	133.0	132.6
50°	123.9	123.9	125.0	125.0	126.4	127.1	127.1	127.1	125.7	125.3	124.3
52.5°	119.7	122.5	121.1	121.8	121.1	120.1	119.0	118.0	115.9	115.2	113.8
55°	117.7	118.7	115.2	114.2	112.8	110.0	108.6	107.2	105.5	104.8	103.0
57.5°	112.8	110.3	106.5	104.8	102.3	99.6	98.2	97.1	95.4	94.7	93.6
60°	103.7	98.9	96.4	94.3	91.5	89.1	88.1	87.4	86.0	85.6	84.6
62.5°	92.6	88.4	86.3	83.5	81.5	80.1	79.0	78.7	77.3	77.3	76.6
65°	80.4	78.3	76.6	73.8	72.8	71.4	71.0	70.7	70.0	69.6	68.9
67.5°	70.7	69.3	66.8	65.4	64.7	63.7	63.0	62.3	60.9	60.2	59.2
70°	62.0	60.9	58.5	57.4	56.0	54.3	53.3	52.6	51.5	50.8	49.8
72.5°	53.6	50.5	48.7	47.7	46.6	44.9	44.6	43.9	42.8	42.5	41.4
75°	43.2	40.7	39.7	39.0	37.9	36.9	36.9	36.9	35.9	35.5	35.2
77.5°	34.5	33.1	32.4	31.7	31.3	30.6	29.6	29.2	28.2	28.2	27.8
80°	26.5	25.8	25.1	24.7	24.4	23.7	23.0	22.6	21.6	21.6	21.2
82.5°	19.5	19.1	18.8	18.4	18.1	17.8	16.7	16.4	15.7	15.7	15.3
85°	13.9	13.6	12.9	12.5	12.5	12.2	11.1	10.8	10.1	10.1	10.1
87.5°	8.7	8.4	8.0	7.7	7.3	7.0	6.3	5.9	5.9	5.2	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	779.4	785.3	784.6	788.8	789.8	791.9	792.6	793.0	787.7	791.9	792.3
5°	825.3	826.4	827.1	828.8	830.6	830.9	829.2	827.1	827.8	826.4	822.9
7.5°	788.4	783.2	782.2	780.8	780.1	779.4	776.3	779.0	775.9	774.5	769.6
10°	743.2	738.3	738.0	738.0	739.0	738.7	738.0	736.6	739.4	737.6	736.6
12.5°	719.5	717.8	718.8	718.1	720.9	721.6	720.9	720.9	720.2	718.8	719.5
15°	705.2	703.9	704.9	703.9	705.9	706.3	704.5	705.6	703.9	702.1	701.4
17.5°	686.4	683.3	680.9	677.4	677.7	677.0	675.0	675.0	673.2	668.7	669.0
20°	650.2	647.1	645.7	645.7	647.5	648.2	647.8	648.5	646.8	646.1	643.3
22.5°	627.6	627.3	628.0	629.7	632.5	636.3	636.7	636.7	636.7	636.3	632.8
25°	619.6	619.6	620.3	622.7	624.8	627.6	628.3	629.0	628.3	628.3	625.2
27.5°	610.6	609.9	611.3	613.7	616.1	618.2	620.0	620.3	619.3	619.3	620.3
30°	599.4	599.1	600.8	603.3	605.3	607.4	609.2	610.6	609.2	609.2	608.1
32.5°	587.9	587.9	588.6	574.0	532.2	479.3	480.4	449.7	428.5	401.7	437.2
35°	366.9	267.0	229.4	194.2	169.5	153.5	153.2	147.9	145.5	143.8	143.4
37.5°	138.5	139.2	140.6	141.3	142.4	143.1	143.4	143.4	143.4	143.4	143.1
40°	138.2	139.6	140.6	141.7	142.7	143.4	143.4	143.8	144.1	144.1	144.1
42.5°	138.5	139.9	141.3	142.4	143.1	143.4	143.8	144.1	144.1	144.1	144.1
45°	138.2	138.9	138.9	139.2	139.2	139.2	139.6	139.6	139.2	138.9	139.6
47.5°	133.0	133.0	131.9	131.6	131.2	130.5	130.9	130.5	130.2	129.8	130.5
50°	123.9	122.5	121.8	121.1	120.8	120.1	120.4	120.1	119.7	119.0	120.1
52.5°	113.1	112.8	111.4	110.7	110.3	110.7	110.0	109.7	109.3	109.0	109.3
55°	102.7	101.3	100.9	100.3	99.9	100.3	99.9	99.6	99.2	98.9	99.2
57.5°	93.3	92.2	91.9	91.2	91.2	91.2	91.2	90.9	90.5	90.2	90.5
60°	84.2	83.5	83.2	83.2	82.8	82.8	82.8	82.5	82.2	82.2	82.5
62.5°	76.6	76.6	75.5	75.2	75.2	75.5	75.2	74.8	74.5	74.1	74.8
65°	68.6	67.2	66.8	66.1	65.4	65.8	65.4	65.1	64.7	64.4	65.1
67.5°	58.8	58.5	57.1	56.4	56.0	56.4	56.0	55.7	55.3	55.0	55.7
70°	49.4	49.4	48.0	47.7	47.3	47.3	47.0	47.0	46.6	46.3	47.0
72.5°	41.1	41.1	40.7	40.0	39.7	39.3	39.0	38.6	38.6	39.0	39.0
75°	34.1	33.4	32.0	32.4	32.0	31.7	31.7	31.3	31.0	31.7	31.3
77.5°	26.8	26.5	25.4	25.8	25.4	25.1	25.1	24.7	24.4	24.7	24.7
80°	20.2	20.2	19.8	19.5	19.5	19.1	18.8	18.8	18.4	18.8	18.8
82.5°	14.6	14.6	14.3	13.9	13.6	13.6	13.2	13.2	13.2	13.2	13.2
85°	9.4	9.1	9.1	8.4	8.4	8.4	8.0	8.0	8.0	8.0	8.0
87.5°	4.5	4.5	4.2	4.2	3.8	3.5	3.5	3.1	3.1	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	786.0	790.5	786.7	788.4	788.8	794.7	794.4	795.8	793.3	790.5	786.7
5°	826.0	823.9	821.2	827.8	824.3	828.5	829.9	832.6	832.6	832.3	829.2
7.5°	774.9	770.3	773.8	776.3	777.3	774.5	780.1	786.4	791.6	794.7	795.1
10°	734.8	736.2	735.9	736.9	739.4	739.0	742.5	746.0	747.4	749.5	750.1
12.5°	716.0	715.7	716.4	718.8	720.2	719.9	723.3	725.4	726.1	726.5	726.1
15°	701.1	698.6	700.4	700.7	701.8	701.8	705.9	709.1	710.5	711.2	710.5
17.5°	672.9	667.0	672.5	672.5	676.4	675.7	682.3	687.5	690.3	692.4	692.4
20°	645.0	642.2	644.3	643.6	646.4	646.1	650.2	653.7	656.2	657.9	660.0
22.5°	633.9	634.6	631.4	631.8	631.8	631.4	633.5	635.3	636.0	637.0	636.3
25°	626.6	627.3	626.2	624.5	623.8	624.5	625.5	627.6	628.0	627.3	624.8
27.5°	619.3	617.2	618.9	615.8	615.1	616.5	617.9	618.2	618.6	618.6	616.5
30°	608.1	606.4	608.1	606.7	605.3	606.7	607.8	607.8	608.5	608.8	606.4
32.5°	425.0	428.5	484.9	519.0	567.1	591.4	595.9	595.9	596.6	596.6	594.6
35°	144.8	145.2	157.0	170.2	198.4	233.2	278.8	302.5	382.6	478.3	570.9
37.5°	143.1	142.7	142.4	142.0	141.7	141.3	140.6	140.3	142.4	168.8	229.0
40°	143.8	143.4	142.7	142.4	142.0	141.3	141.0	140.3	139.6	138.9	138.2
42.5°	143.8	143.4	143.1	142.7	142.4	142.0	141.3	140.6	139.9	138.9	137.8
45°	138.9	138.9	139.2	139.2	139.6	139.6	139.6	139.2	139.2	138.9	137.5
47.5°	129.8	129.8	130.9	130.9	131.6	132.3	132.3	133.0	134.0	134.7	135.1
50°	119.4	119.4	120.4	120.8	121.5	122.5	123.6	123.9	125.0	126.4	127.8
52.5°	109.0	109.0	110.0	110.0	110.7	111.7	112.8	113.1	114.5	115.9	117.7
55°	99.2	99.2	99.9	100.3	100.6	101.3	102.3	102.3	103.7	104.8	106.5
57.5°	90.5	91.2	91.2	91.2	91.5	92.2	92.9	92.9	94.0	95.0	96.4
60°	82.2	82.8	82.8	82.8	83.2	83.5	84.2	84.2	84.9	85.6	87.0
62.5°	74.5	75.2	75.2	75.5	75.5	75.9	76.6	76.2	76.9	77.3	78.3
65°	64.7	65.4	65.8	66.1	66.5	67.2	68.2	67.9	68.9	69.6	70.7
67.5°	55.3	56.0	56.0	56.4	56.7	57.4	58.1	58.1	59.2	59.9	61.3
70°	46.6	47.3	47.3	47.7	48.0	48.7	49.4	49.1	50.1	50.8	51.9
72.5°	38.6	39.3	39.3	39.7	39.7	40.4	41.1	41.8	41.8	42.5	43.2
75°	31.3	31.7	32.0	32.0	32.4	32.7	33.4	34.1	34.5	34.8	35.5
77.5°	24.7	25.1	25.4	25.4	25.8	26.1	26.5	27.8	28.5	28.9	28.9
80°	18.8	19.1	19.1	19.1	19.5	19.8	20.5	20.5	21.9	21.9	22.3
82.5°	13.2	13.6	13.6	13.6	13.9	14.6	15.0	15.3	16.0	16.4	16.4
85°	8.0	8.4	8.4	8.4	8.7	9.1	9.7	10.1	10.4	10.4	10.8
87.5°	3.1	3.5	3.8	3.8	4.2	4.5	4.9	5.2	5.6	5.6	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	782.5	785.0	782.5	783.9	785.7	782.5	775.2	772.4	771.4	767.2	764.4
5°	826.0	826.0	825.0	827.8	827.4	822.6	814.9	811.4	807.9	803.4	799.9
7.5°	795.1	797.8	799.6	810.4	817.3	818.0	822.9	823.9	825.3	823.9	821.9
10°	750.5	749.5	754.3	764.4	770.3	773.5	782.9	787.4	791.2	798.9	806.9
12.5°	725.4	726.8	728.9	736.2	741.8	740.4	744.2	747.4	751.9	759.5	771.0
15°	708.7	710.1	712.2	717.8	721.3	719.5	721.6	723.7	726.8	730.7	737.6
17.5°	690.6	693.1	695.5	701.4	704.5	704.2	705.9	706.6	707.7	710.1	715.0
20°	662.4	670.1	675.0	683.0	687.5	686.8	689.9	691.0	692.4	694.8	696.9
22.5°	636.7	638.8	641.2	649.9	657.6	667.0	669.0	671.8	675.3	677.7	679.8
25°	622.0	620.7	621.7	627.6	631.8	632.5	635.6	644.7	654.1	658.3	663.1
27.5°	613.3	612.0	611.6	614.4	615.1	613.3	612.7	615.4	622.4	629.4	644.0
30°	603.9	602.2	600.8	603.3	604.3	601.9	597.3	594.9	599.1	600.8	606.7
32.5°	592.8	591.1	590.4	591.8	592.5	590.4	585.5	582.7	582.0	580.6	582.0
35°	580.3	578.5	577.5	577.8	579.2	577.5	573.3	569.8	568.1	564.3	561.5
37.5°	299.0	423.6	550.0	563.2	564.6	564.3	560.1	556.3	554.5	550.0	548.6
40°	136.8	152.8	229.4	299.7	432.3	549.3	545.5	541.6	538.5	537.1	531.9
42.5°	136.5	136.8	137.2	135.4	167.8	285.8	421.9	526.7	524.6	521.1	517.3
45°	136.5	134.7	136.1	134.0	134.7	134.4	167.4	270.1	480.7	502.3	500.6
47.5°	135.1	134.0	135.4	133.7	131.6	132.6	131.2	133.0	207.5	351.9	482.1
50°	128.8	129.5	131.9	131.6	129.8	131.2	128.8	130.9	129.1	141.7	272.9
52.5°	119.4	120.8	123.2	125.3	126.0	127.8	127.1	127.8	126.4	126.7	127.1
55°	108.3	110.0	112.1	115.2	116.6	119.4	121.5	122.5	124.3	123.9	121.1
57.5°	97.8	99.6	101.3	104.4	107.6	109.0	112.8	114.9	119.4	118.4	117.7
60°	88.1	89.5	91.2	91.9	95.7	98.2	101.6	103.7	109.7	111.0	113.1
62.5°	79.4	80.1	81.5	82.5	84.9	87.4	89.1	92.6	95.7	100.3	103.4
65°	71.4	72.1	73.1	73.8	74.1	77.6	78.7	82.5	83.5	88.4	91.2
67.5°	62.3	63.7	65.1	65.8	66.5	68.6	69.3	71.0	73.4	75.5	79.0
70°	52.9	54.0	55.3	56.4	57.8	59.2	61.3	62.3	64.0	65.4	68.2
72.5°	44.2	45.3	45.9	47.0	48.0	49.1	50.8	53.3	54.7	57.1	57.8
75°	35.9	36.9	37.6	38.3	39.3	40.0	40.7	43.2	44.6	46.6	48.7
77.5°	29.6	29.6	30.3	32.4	32.0	32.0	32.7	34.1	35.2	36.6	38.6
80°	23.0	23.3	23.7	25.4	25.8	26.1	25.8	26.8	27.8	28.2	29.6
82.5°	17.1	17.4	17.4	18.4	19.5	19.5	19.5	19.8	20.9	21.2	21.9
85°	11.5	11.8	12.2	12.5	13.2	13.6	13.9	13.9	14.6	15.0	15.3
87.5°	6.3	7.0	7.3	7.7	8.0	8.4	8.7	9.1	9.4	9.7	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5	759.5
2.5°	763.4	761.6	760.6	757.8	757.1	752.6	753.3	752.6	752.6	753.6	757.1
5°	796.1	787.7	785.7	779.7	774.9	766.5	761.3	758.5	754.3	752.6	755.0
7.5°	818.4	812.1	806.9	801.7	794.7	785.0	777.6	769.3	762.3	755.7	754.0
10°	814.5	821.5	821.5	818.4	811.8	802.0	793.3	782.9	770.7	760.2	754.0
12.5°	782.2	794.4	804.1	811.4	818.0	811.4	802.7	794.4	780.8	765.5	754.0
15°	746.7	759.2	771.4	786.7	802.7	809.3	809.0	799.2	787.0	771.0	755.0
17.5°	721.6	730.3	736.9	753.6	773.1	790.2	801.7	802.4	790.5	776.3	755.4
20°	702.8	709.1	714.6	724.0	741.1	762.0	783.2	795.1	793.0	777.3	756.4
22.5°	685.8	690.3	694.8	701.8	715.3	728.9	753.6	778.0	788.4	775.6	755.4
25°	668.7	673.6	677.0	681.9	692.7	703.9	721.3	751.5	774.9	774.2	753.3
27.5°	648.5	655.1	659.3	665.9	673.2	681.6	693.4	722.0	755.4	767.2	747.7
30°	624.1	633.9	640.2	647.5	653.7	661.0	670.4	687.8	729.3	753.6	741.8
32.5°	589.0	606.4	620.3	627.3	634.2	640.5	648.9	663.5	697.2	735.2	735.2
35°	563.9	571.9	584.5	604.6	613.3	619.6	627.3	638.8	660.3	713.3	724.4
37.5°	544.4	547.6	553.8	573.7	590.0	600.1	607.8	615.1	636.3	683.3	710.5
40°	529.8	528.8	528.1	537.5	560.8	576.8	585.5	592.8	609.2	647.5	692.0
42.5°	512.7	511.7	508.2	510.7	522.1	548.9	562.2	570.2	583.8	609.9	671.8
45°	495.0	493.3	491.9	489.4	493.6	508.6	535.7	547.6	555.2	578.5	646.4
47.5°	476.9	474.5	472.7	470.6	468.2	475.2	500.9	522.1	535.4	550.0	615.8
50°	451.1	454.3	452.2	449.7	447.7	446.3	457.1	491.9	508.2	520.1	578.5
52.5°	212.7	413.5	430.9	428.5	425.7	423.3	425.7	452.2	481.8	491.2	533.6
55°	121.1	184.1	383.3	405.2	402.7	399.3	397.2	406.2	450.4	463.0	492.6
57.5°	116.6	117.0	169.2	365.2	378.7	375.6	373.2	375.2	412.8	434.1	456.7
60°	112.8	112.8	112.8	161.5	349.1	350.2	347.1	343.6	359.9	401.7	420.5
62.5°	104.4	106.5	107.6	107.6	159.4	323.4	320.2	319.2	319.9	362.7	384.3
65°	93.6	98.5	100.6	102.0	102.0	167.4	292.7	291.0	288.6	304.9	347.7
67.5°	81.8	86.7	91.2	94.0	94.3	97.5	174.7	262.1	258.6	259.0	308.8
70°	69.6	73.8	78.7	82.8	86.7	88.4	91.2	217.6	229.0	224.2	264.6
72.5°	60.2	62.0	65.4	69.6	74.1	78.3	80.8	86.7	198.8	193.5	201.2
75°	50.1	51.5	54.0	56.7	60.2	65.1	69.3	73.4	105.5	162.2	161.2
77.5°	39.0	41.4	44.2	45.9	47.7	51.2	56.7	60.9	65.1	109.7	129.1
80°	29.9	31.7	33.1	34.8	36.9	39.3	41.4	46.3	51.2	55.0	98.9
82.5°	22.3	23.3	24.4	25.1	25.8	27.2	31.0	32.7	35.9	39.3	46.6
85°	15.7	16.4	17.1	17.4	17.8	18.1	19.5	19.8	23.0	23.7	28.2
87.5°	10.1	10.4	11.1	11.5	11.5	11.8	12.2	12.2	12.2	11.5	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212967

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	759.5	759.5
2.5°	759.9	765.5
5°	758.9	766.2
7.5°	756.1	763.0
10°	751.9	760.2
12.5°	747.4	755.4
15°	743.5	749.5
17.5°	739.4	742.8
20°	733.8	736.6
22.5°	728.2	726.8
25°	722.0	718.8
27.5°	713.9	708.0
30°	706.6	696.2
32.5°	699.7	682.6
35°	690.3	668.7
37.5°	680.5	654.4
40°	669.0	638.1
42.5°	656.9	621.7
45°	641.5	606.0
47.5°	628.0	587.2
50°	609.2	567.1
52.5°	586.2	548.3
55°	559.0	525.3
57.5°	529.8	501.3
60°	498.5	473.8
62.5°	460.5	445.2
65°	416.0	412.5
67.5°	357.8	376.3
70°	293.4	334.9
72.5°	245.4	291.0
75°	201.2	241.9
77.5°	159.4	189.7
80°	99.6	138.9
82.5°	66.8	91.2
85°	40.4	43.5
87.5°	15.7	16.0
90°	0.0	0.0

(END OF REPORT)