

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: P1213669

Luminaire Tested: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213669
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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

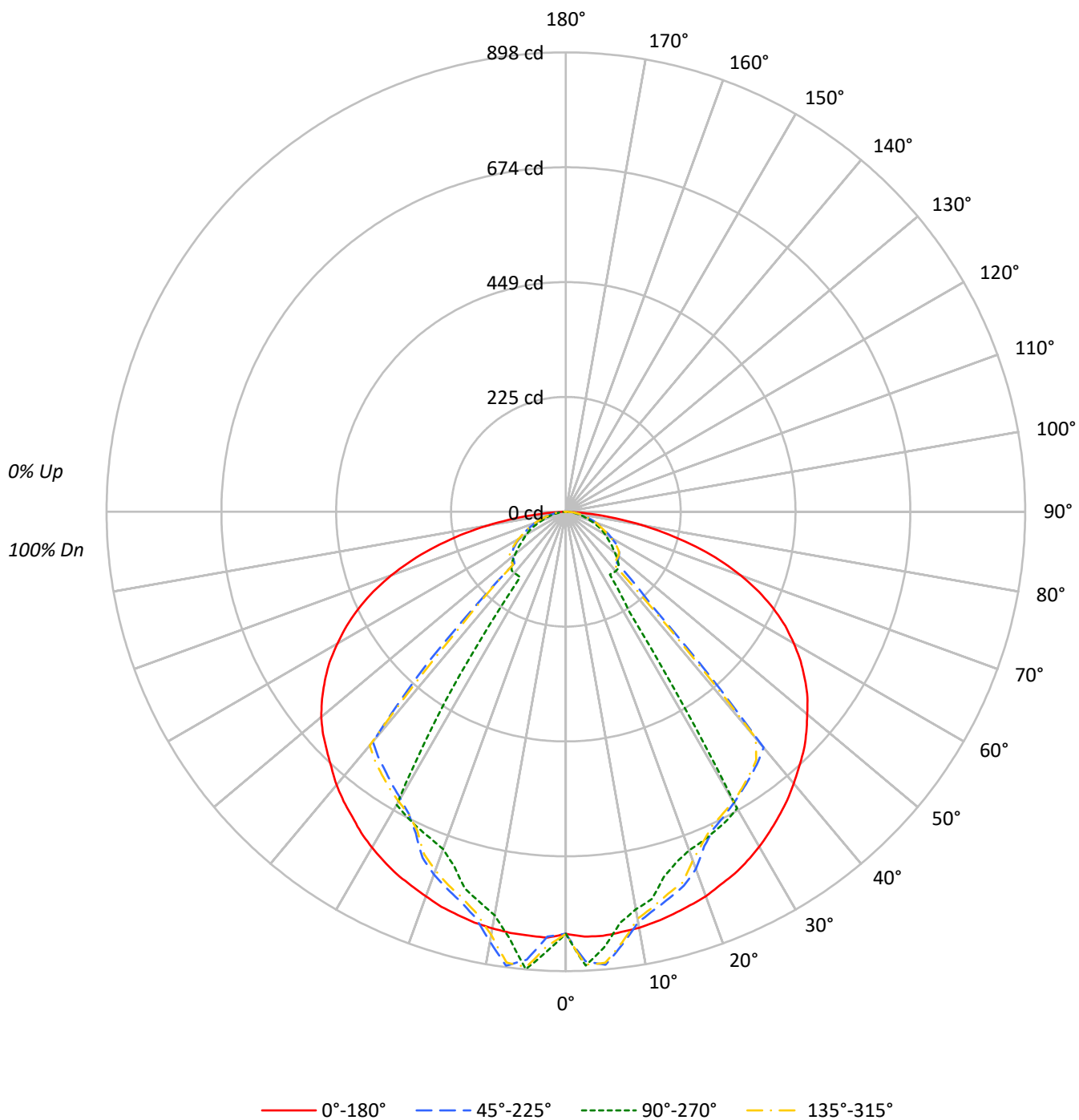
Lumens per Lamp: N/A
Luminaire Lumens: 1652.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-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°	13334	13334	13334	13334
5°	13426	13433	13422	14099
10°	13403	12145	13423	12331
15°	13396	11237	13427	11594
20°	13453	10659	13453	10618
25°	13528	10455	13549	10356
30°	13621	10270	13653	10148
35°	13729	2339	13758	2439
40°	13892	2432	13977	2511
45°	14159	2420	14209	2508
50°	14412	2187	14607	2246
55°	14758	1943	14877	1970
60°	15009	1726	15041	1747
65°	15108	1506	15071	1481
70°	14668	1214	14623	1170
75°	13307	934	13403	895
80°	10369	663	10782	607
85°	5116	396	5398	305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 15443 cd/sqm

TEST NUMBER: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	4.9
10°-20°	223.2	13.5
20°-30°	330.6	20.0
30°-40°	333.1	20.2
40°-50°	260.2	15.7
50°-60°	201.0	12.2
60°-70°	134.9	8.2
70°-80°	68.8	4.2
80°-90°	19.1	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°	634.9	38.4
0°-40°	968.0	58.6
0°-60°	1429.1	86.5
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	825	825	825	825	825	
5°	832	855	832	898	832	79
15°	814	739	816	763	814	230
25°	781	689	782	682	781	360
35°	726	150	728	156	726	455
45°	658	146	660	151	658	508
55°	570	106	575	107	570	510
65°	448	71	447	70	448	441
75°	263	36	265	34	263	275
85°	47	11	50	9	47	65
90°	0	0	0	0	0	

TEST NUMBER: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	831.4	834.4	836.7	838.2	839.0	839.0	839.3	839.7	844.6	846.9	848.4
5°	832.1	835.2	839.7	845.8	851.1	855.6	859.4	864.7	870.0	875.6	877.5
7.5°	828.7	832.5	841.6	852.6	862.8	870.0	874.9	878.3	880.9	881.3	883.2
10°	825.7	832.5	845.0	859.4	872.2	880.9	880.9	879.0	881.7	871.5	861.3
12.5°	820.4	828.0	845.0	863.9	876.0	879.4	877.9	870.3	854.8	842.4	836.7
15°	814.0	824.2	845.4	866.6	876.8	877.9	863.5	844.2	832.5	825.0	815.5
17.5°	806.8	820.4	845.8	866.9	870.7	865.4	838.2	826.1	814.0	796.2	783.4
20°	800.0	813.2	842.7	861.6	863.9	840.1	818.9	806.1	785.6	770.1	764.5
22.5°	789.4	804.9	840.1	854.5	845.8	818.2	797.7	777.3	758.8	754.3	747.5
25°	780.7	797.0	834.0	845.8	822.7	798.1	774.3	750.5	741.8	735.4	729.3
27.5°	769.0	789.0	826.1	829.9	798.1	776.6	741.8	731.2	723.3	716.1	713.4
30°	756.2	780.7	815.1	808.0	777.7	745.9	720.2	710.4	704.7	697.2	694.2
32.5°	741.4	768.3	803.0	782.6	755.8	716.1	699.4	691.9	684.3	678.7	659.7
35°	726.3	757.3	788.7	758.4	729.3	693.4	678.7	671.8	664.7	643.9	624.2
37.5°	710.8	745.2	771.3	732.3	694.2	670.0	657.5	649.9	633.7	607.2	597.4
40°	693.0	730.4	749.0	705.5	663.5	646.1	634.4	626.9	590.2	578.5	575.4
42.5°	675.2	716.1	721.8	679.4	638.2	620.8	611.0	586.0	561.1	555.0	556.2
45°	658.2	700.6	691.9	642.4	611.7	597.4	580.7	546.3	533.1	536.1	536.9
47.5°	637.8	682.1	660.5	605.3	584.5	570.1	533.1	512.3	510.4	514.6	516.8
50°	615.9	661.3	627.2	571.7	555.0	538.0	496.0	485.5	487.7	491.9	494.5
52.5°	595.5	637.8	592.8	540.3	525.9	487.0	458.6	460.5	464.3	469.2	470.7
55°	570.5	609.5	556.2	508.5	494.9	443.9	431.0	435.5	439.3	443.5	446.5
57.5°	544.4	576.9	512.7	473.0	451.0	405.7	406.8	409.8	412.5	417.4	172.4
60°	514.6	539.9	465.0	440.1	396.6	375.4	376.6	381.9	384.5	214.7	118.7
62.5°	483.6	496.8	421.9	402.7	346.7	345.2	350.5	352.7	240.1	113.4	111.2
65°	448.0	445.4	379.6	349.0	312.7	314.2	319.9	308.5	106.2	106.2	105.5
67.5°	408.7	392.8	338.4	288.9	279.8	283.2	289.2	100.9	98.3	99.1	96.4
70°	363.7	341.4	295.7	244.6	247.6	251.0	97.5	91.5	90.4	88.5	83.2
72.5°	316.1	285.4	242.0	212.5	214.4	134.6	85.4	82.4	78.6	74.9	69.2
75°	262.8	223.1	177.7	177.7	180.3	76.7	74.5	69.6	65.4	60.5	57.1
77.5°	206.1	171.6	138.0	143.3	69.9	64.3	60.1	54.8	51.4	48.4	46.5
80°	150.9	119.9	104.0	93.0	54.4	48.8	44.6	41.6	40.1	38.2	35.9
82.5°	99.1	72.2	72.2	43.9	38.2	33.6	32.5	30.2	28.7	27.6	26.5
85°	47.3	42.0	31.8	26.8	23.8	21.6	20.8	19.7	19.7	19.3	18.9
87.5°	17.4	18.9	14.0	13.6	12.9	12.5	12.9	12.9	13.2	12.9	12.5
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	852.2	855.2	857.5	861.3	866.2	870.3	874.1	879.4	887.7	890.0	891.9
5°	877.5	878.7	881.3	884.3	885.1	887.0	886.6	888.9	890.0	892.6	887.0
7.5°	879.0	873.0	865.8	859.4	854.8	850.7	848.0	852.2	854.5	856.3	850.7
10°	847.3	840.1	835.9	832.1	827.6	821.2	812.5	814.4	813.6	813.6	811.7
12.5°	827.2	817.0	806.4	797.0	792.8	792.5	792.8	797.0	797.0	796.6	794.3
15°	795.9	786.0	780.7	778.5	778.5	777.3	777.3	781.9	780.7	780.7	779.6
17.5°	775.1	768.3	764.5	761.8	760.7	762.6	764.9	766.7	767.1	765.6	759.6
20°	758.0	751.6	747.1	747.8	747.5	748.6	749.7	743.3	735.4	724.8	719.9
22.5°	740.3	735.4	732.0	732.0	727.4	720.2	709.7	707.4	706.2	701.3	697.2
25°	723.3	717.6	712.7	697.6	688.1	689.2	687.3	683.6	683.2	682.8	684.3
27.5°	706.2	691.5	672.6	670.3	666.6	666.2	668.4	670.3	670.3	671.8	673.7
30°	671.1	654.1	650.7	646.5	648.0	653.3	654.5	657.1	657.9	660.5	662.0
32.5°	639.0	631.4	628.4	630.3	635.2	639.7	642.4	643.5	645.4	647.6	649.5
35°	612.9	610.6	613.2	617.4	622.3	626.1	628.4	630.6	632.5	634.4	635.9
37.5°	593.6	595.1	598.9	604.2	609.1	612.1	614.0	616.6	619.3	621.6	612.5
40°	575.4	579.2	583.4	589.0	593.2	596.2	598.1	601.5	578.8	262.0	143.7
42.5°	559.6	563.7	566.7	571.3	575.8	578.1	561.4	250.7	141.8	141.0	142.9
45°	540.3	543.7	548.6	552.0	556.2	365.2	139.5	141.0	138.8	140.3	141.0
47.5°	520.6	525.9	528.6	504.4	150.1	138.8	137.2	138.8	137.2	139.1	138.0
50°	498.3	504.7	359.2	135.7	134.6	133.8	135.4	134.6	135.7	137.2	134.2
52.5°	475.6	294.5	131.6	130.8	131.6	130.8	133.5	131.6	131.9	130.4	126.7
55°	161.1	127.4	126.3	125.9	128.2	128.2	128.2	125.1	123.3	119.5	116.8
57.5°	123.3	123.3	122.9	123.3	122.5	121.7	118.3	115.7	113.0	107.8	106.2
60°	116.8	116.8	116.8	116.8	113.4	111.9	106.6	104.3	99.8	97.2	95.7
62.5°	111.5	110.8	107.4	106.2	102.5	98.3	95.3	93.0	88.5	87.0	85.8
65°	104.0	101.3	97.2	92.6	90.7	86.2	84.7	81.3	79.0	77.9	77.1
67.5°	91.5	87.7	84.3	81.3	77.9	76.4	74.5	71.8	70.3	69.6	68.8
70°	78.3	75.6	72.2	70.3	68.1	66.9	64.3	63.5	62.4	61.2	60.1
72.5°	65.4	63.9	62.4	59.7	59.0	58.2	55.6	54.1	52.6	51.0	50.3
75°	54.8	53.7	52.9	50.7	49.5	47.3	45.4	44.2	43.1	42.0	41.2
77.5°	45.0	44.2	42.0	40.5	39.7	37.8	37.1	37.4	36.7	35.2	34.4
80°	35.2	34.4	32.5	32.5	31.8	31.0	30.2	29.5	28.7	27.6	26.8
82.5°	26.8	26.1	25.3	24.6	23.8	23.4	23.1	22.3	21.6	20.8	20.4
85°	18.9	18.5	18.1	17.8	17.4	17.0	16.6	15.9	15.1	14.7	14.4
87.5°	12.9	12.5	12.1	11.7	11.3	11.0	10.6	10.2	9.5	9.1	8.7
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	891.9	893.8	891.9	887.7	885.1	883.9	886.2	886.2	887.7	889.6	890.0
5°	877.9	873.4	868.1	862.8	860.1	858.6	854.5	855.2	856.3	857.1	857.9
7.5°	843.1	837.1	829.9	823.1	820.4	818.2	813.2	813.2	813.2	813.6	815.9
10°	807.6	804.9	801.9	797.4	794.0	792.8	788.7	789.8	789.0	790.2	792.8
12.5°	790.9	787.9	785.3	780.7	777.0	775.4	773.5	774.7	774.3	776.2	778.5
15°	775.8	774.3	771.3	767.9	764.5	761.4	754.6	752.4	750.9	749.0	751.6
17.5°	750.9	740.3	733.1	727.8	724.0	721.4	719.5	719.5	720.6	721.8	724.0
20°	716.8	713.8	710.4	704.7	701.0	699.4	698.3	698.3	700.2	701.7	705.9
22.5°	693.4	693.0	691.9	689.2	687.3	687.3	687.7	688.5	691.1	693.4	697.6
25°	682.4	683.9	683.2	681.7	680.5	680.9	680.2	680.9	683.6	685.8	689.2
27.5°	673.7	676.0	675.2	673.0	671.1	671.8	673.0	672.2	674.5	677.1	679.8
30°	662.0	662.4	663.9	661.3	660.5	661.6	662.0	662.8	665.0	666.9	669.2
32.5°	648.8	651.8	651.4	648.8	648.8	649.9	650.3	625.0	577.7	497.6	475.6
35°	635.9	639.3	633.7	534.2	369.8	197.4	152.4	147.1	148.2	149.0	149.7
37.5°	470.3	223.1	142.2	143.3	144.4	145.6	146.7	147.8	149.0	150.1	150.5
40°	141.4	141.0	142.2	143.7	144.8	145.6	147.1	148.2	149.3	150.5	150.9
42.5°	139.9	140.6	141.8	143.3	144.8	146.3	147.5	149.0	149.7	150.5	150.9
45°	139.1	140.6	142.2	143.3	144.4	145.2	145.9	146.3	145.9	145.9	146.7
47.5°	138.0	139.5	139.9	139.5	139.9	139.5	139.5	139.5	138.4	138.0	138.0
50°	133.8	133.8	133.1	131.6	131.2	130.8	130.1	129.7	128.2	127.8	127.8
52.5°	125.1	124.8	123.6	121.7	121.0	120.2	119.9	119.5	118.0	117.2	117.6
55°	114.9	114.2	113.0	110.8	110.4	109.6	109.3	108.9	107.4	108.1	107.0
57.5°	105.5	104.0	102.5	102.1	100.6	100.2	99.8	99.4	98.3	98.7	97.9
60°	94.1	93.8	93.0	91.5	91.5	91.1	91.1	90.4	89.6	89.2	89.2
62.5°	85.8	84.7	83.9	83.9	82.8	82.8	82.8	82.0	81.3	81.7	81.3
65°	76.7	76.4	76.0	75.2	75.2	74.9	74.9	74.1	73.0	73.3	72.6
67.5°	69.2	68.4	67.7	67.3	65.8	65.0	64.7	64.3	62.8	63.1	62.4
70°	59.7	58.6	57.8	57.1	56.0	55.2	55.2	54.4	53.3	53.7	52.9
72.5°	49.9	49.2	48.4	48.0	46.9	46.5	46.1	45.7	44.6	45.0	44.6
75°	41.6	41.6	41.2	40.8	39.7	38.6	37.8	37.4	36.7	37.1	36.3
77.5°	34.4	33.6	32.9	32.9	31.8	31.0	30.2	30.2	30.2	29.9	29.5
80°	26.8	26.1	26.1	25.7	25.0	24.2	23.8	23.8	23.4	23.4	23.1
82.5°	20.4	19.7	19.3	19.3	18.5	18.1	17.8	17.4	17.4	17.4	17.0
85°	14.4	13.6	13.2	13.2	12.5	12.1	12.1	11.7	11.7	11.3	11.3
87.5°	8.7	8.3	7.9	7.9	7.2	6.8	6.8	6.8	6.4	6.4	6.0
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	890.0	890.0	887.3	888.1	887.0	888.5	886.6	886.6	888.9	888.9	890.4
5°	858.2	856.3	856.0	855.2	851.4	852.9	851.1	849.2	851.8	851.8	855.2
7.5°	814.8	811.4	812.9	810.6	808.3	804.9	806.1	804.6	806.4	809.1	812.5
10°	792.5	789.4	791.3	789.0	790.2	785.3	785.6	786.0	787.9	788.7	791.7
12.5°	778.1	777.3	776.6	775.8	776.6	773.9	772.4	772.8	773.5	773.9	776.2
15°	747.8	742.9	744.4	739.1	739.5	739.9	736.9	739.9	739.5	744.4	749.0
17.5°	723.3	723.3	720.6	718.3	716.8	716.5	714.2	715.7	714.2	717.2	718.3
20°	706.2	705.9	705.5	704.4	700.6	701.0	702.1	698.7	698.3	697.9	700.2
22.5°	698.3	698.7	697.2	697.2	693.8	694.5	694.9	691.1	691.5	690.4	691.5
25°	690.0	690.7	688.9	688.9	688.1	687.7	685.8	686.6	684.3	682.4	684.3
27.5°	680.2	681.7	680.2	680.9	679.4	678.7	677.5	676.8	674.5	674.1	675.2
30°	671.1	671.8	671.5	669.6	669.2	666.9	668.1	665.8	663.5	663.9	664.7
32.5°	344.1	328.5	253.3	228.7	226.5	234.8	278.3	338.8	438.9	536.1	606.1
35°	150.1	150.1	150.1	149.7	149.7	149.3	149.0	148.6	148.2	147.8	147.5
37.5°	150.9	150.9	150.9	150.9	150.5	150.1	150.1	149.3	149.0	148.6	148.2
40°	151.2	151.6	151.6	151.6	151.2	151.2	150.9	150.1	149.7	149.0	148.2
42.5°	150.9	151.2	151.2	150.9	150.9	150.5	150.5	150.1	149.7	149.3	149.0
45°	145.9	146.3	145.6	145.6	145.2	145.2	145.2	145.2	145.2	145.6	145.6
47.5°	137.2	137.2	136.9	136.5	136.5	136.1	136.5	136.1	136.9	137.2	138.0
50°	127.0	127.0	126.3	125.9	125.9	125.9	125.9	126.3	126.7	127.4	128.2
52.5°	116.4	116.4	116.1	115.7	115.3	115.3	116.4	116.1	116.4	116.8	118.0
55°	106.2	106.6	105.9	105.9	105.5	105.5	105.5	105.9	106.2	106.6	107.8
57.5°	97.5	97.5	96.8	96.8	96.8	96.4	97.5	96.8	97.2	97.5	98.3
60°	88.8	88.5	88.5	88.1	88.1	88.1	88.8	88.5	88.5	88.8	89.6
62.5°	80.9	80.9	80.5	80.5	80.2	80.2	80.9	80.5	80.5	80.9	81.3
65°	71.8	71.8	71.5	71.1	72.2	71.1	72.2	71.5	72.2	72.6	73.3
67.5°	61.6	61.6	61.6	61.2	61.2	62.0	62.4	61.6	62.0	62.8	63.1
70°	52.6	52.6	52.2	52.2	52.2	52.9	53.3	52.6	52.9	53.3	54.1
72.5°	44.6	43.9	43.9	43.5	44.2	44.2	44.6	44.2	44.6	44.6	45.4
75°	36.7	35.9	35.9	35.9	36.7	36.3	36.7	36.3	36.7	36.7	37.1
77.5°	29.5	29.1	28.7	28.7	29.5	29.5	29.5	29.1	29.5	29.9	30.2
80°	23.1	22.7	22.3	22.3	23.1	23.1	23.1	23.4	23.1	23.4	23.8
82.5°	17.0	16.6	16.3	17.0	17.0	17.0	17.0	17.4	17.0	17.4	17.8
85°	11.3	11.0	10.6	11.3	11.3	11.3	11.3	11.7	11.3	11.7	12.1
87.5°	6.0	5.7	5.7	6.0	6.0	6.0	6.4	6.4	6.4	6.8	6.8
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	892.6	893.8	893.4	891.1	888.9	886.2	884.3	884.7	888.5	889.6	886.2
5°	855.2	862.4	862.4	867.3	864.7	862.4	863.9	872.2	876.4	882.8	885.1
7.5°	816.6	820.1	819.7	824.6	823.8	823.8	825.0	835.9	841.2	846.5	848.0
10°	795.1	798.5	798.1	798.5	797.4	794.7	794.7	799.6	804.2	806.8	807.6
12.5°	779.6	781.5	781.1	781.1	780.4	778.1	777.7	781.9	786.8	790.2	790.6
15°	756.5	761.8	763.0	767.9	766.7	763.7	764.5	767.9	770.9	773.9	772.8
17.5°	722.1	724.8	725.2	727.0	726.3	726.3	730.8	743.3	751.6	758.8	759.6
20°	702.5	704.4	703.6	707.8	705.9	705.5	706.6	711.9	715.7	719.1	725.2
22.5°	693.0	694.5	693.4	693.8	690.4	687.3	686.6	690.7	694.9	699.4	699.4
25°	685.1	686.2	685.8	685.1	682.4	678.3	677.5	678.3	679.8	680.2	677.5
27.5°	675.6	676.4	676.4	676.8	673.4	669.6	668.8	668.1	669.6	669.2	665.0
30°	665.8	664.7	665.0	665.4	662.4	659.0	657.5	657.1	658.6	658.2	654.1
32.5°	642.4	651.1	651.8	652.6	649.9	646.9	645.4	644.2	645.0	644.6	640.8
35°	147.1	149.7	183.4	415.1	563.7	624.2	630.6	629.1	629.5	629.5	626.5
37.5°	147.5	147.1	146.7	145.6	144.4	143.7	248.4	529.7	613.6	614.0	611.4
40°	147.5	147.1	146.7	145.9	144.4	143.3	141.4	139.9	143.3	315.3	576.9
42.5°	148.2	147.5	146.7	145.9	144.4	142.9	141.4	139.5	140.6	139.9	138.0
45°	145.9	145.6	145.6	145.2	144.4	142.9	141.0	138.8	137.6	138.8	136.9
47.5°	138.8	139.1	140.3	140.6	140.6	141.0	139.9	138.4	136.5	137.6	135.4
50°	128.9	129.7	130.1	131.9	132.7	134.2	134.6	134.6	134.2	135.7	134.2
52.5°	118.3	119.1	121.0	121.7	122.5	124.8	125.5	126.7	127.4	129.7	131.2
55°	108.1	108.5	109.3	110.8	111.9	113.8	114.9	116.1	118.0	119.1	123.6
57.5°	98.7	99.1	100.6	100.9	101.7	103.2	104.3	105.9	107.4	108.1	113.4
60°	89.6	90.0	91.1	91.5	91.9	93.4	94.5	95.7	96.8	97.5	101.3
62.5°	81.7	81.7	82.8	82.8	83.2	84.3	85.1	85.8	87.0	87.3	89.2
65°	73.7	74.1	74.9	74.9	75.2	76.0	76.4	76.7	77.9	77.9	79.4
67.5°	63.9	64.3	65.4	66.2	66.5	68.1	68.4	68.8	69.6	69.9	70.7
70°	54.4	54.8	56.0	56.3	56.7	57.8	58.6	59.7	60.9	62.0	62.8
72.5°	45.7	46.1	47.3	47.3	48.4	48.8	49.5	49.9	51.0	51.8	52.9
75°	37.4	37.8	38.9	38.9	40.1	40.5	40.8	41.2	42.0	42.7	43.5
77.5°	30.6	30.6	32.1	32.9	33.6	33.6	34.0	34.0	34.0	34.4	35.2
80°	24.2	24.2	25.3	26.1	26.8	26.8	27.2	27.6	28.0	28.0	28.4
82.5°	18.1	18.1	19.3	19.7	20.4	20.4	20.4	20.8	21.2	20.8	21.6
85°	12.5	12.5	13.2	13.6	14.4	14.4	14.4	14.7	15.1	14.7	15.1
87.5°	7.2	7.6	7.9	8.3	8.7	9.1	9.1	9.1	9.5	9.5	9.8
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	882.4	877.9	877.5	872.2	870.7	871.1	866.9	865.4	858.6	857.1	849.9
5°	885.8	888.1	887.0	886.6	887.7	887.0	883.9	882.4	881.3	878.3	872.2
7.5°	848.4	849.9	851.1	856.0	860.1	867.3	874.9	879.8	883.6	884.3	879.4
10°	810.2	817.4	822.3	829.9	835.9	840.1	844.6	848.8	859.7	870.7	877.1
12.5°	790.6	792.5	792.1	796.2	800.4	811.4	821.9	828.0	836.3	841.2	852.9
15°	773.9	774.3	775.4	778.5	780.7	784.5	789.4	798.5	815.1	822.7	829.1
17.5°	758.8	758.8	759.6	762.2	765.2	768.6	771.7	775.4	783.8	796.2	812.1
20°	734.6	745.2	746.3	745.9	747.5	753.9	754.6	761.4	765.6	770.5	786.0
22.5°	698.7	705.1	714.2	728.2	733.5	736.5	738.8	741.8	748.2	753.9	760.3
25°	679.0	683.2	685.8	690.0	701.0	718.7	722.1	725.5	729.7	733.8	741.8
27.5°	661.6	661.3	663.1	666.9	670.0	679.4	696.0	709.3	710.0	716.1	722.9
30°	649.2	646.9	644.2	643.5	647.6	652.6	657.5	678.3	692.6	695.7	702.8
32.5°	637.4	633.7	629.9	626.9	624.2	628.4	631.4	640.5	659.0	676.4	680.2
35°	623.1	619.3	614.8	611.4	607.2	606.8	606.4	615.1	621.2	642.0	660.1
37.5°	608.3	604.2	600.4	596.6	592.4	589.4	587.5	589.8	595.5	604.5	634.8
40°	592.8	587.9	584.1	581.1	575.4	573.2	569.4	567.9	568.3	576.2	592.1
42.5°	354.3	564.8	566.7	563.3	558.4	555.4	551.2	549.3	545.6	549.3	558.4
45°	136.5	138.0	413.2	545.9	539.9	536.1	532.3	530.4	526.3	523.3	531.6
47.5°	133.8	135.4	132.3	187.5	515.3	516.5	511.9	510.0	505.9	503.6	501.3
50°	131.9	133.1	130.8	131.6	128.9	472.2	491.1	488.9	484.3	481.7	477.1
52.5°	130.1	130.1	128.5	126.7	125.9	126.3	397.4	467.3	462.0	459.4	453.3
55°	124.0	124.8	126.3	123.3	122.5	122.1	121.0	378.5	437.4	434.4	429.1
57.5°	114.9	116.4	120.6	119.9	119.9	116.8	116.1	116.1	351.2	409.1	403.8
60°	104.3	105.9	110.4	111.9	113.0	112.3	111.5	111.2	109.6	370.1	376.9
62.5°	93.4	94.9	96.4	101.3	102.8	104.7	107.0	105.9	104.3	104.3	348.6
65°	81.7	83.9	84.7	89.2	91.1	94.5	96.4	99.1	98.3	97.9	99.8
67.5°	71.5	74.1	74.5	76.4	79.8	81.3	83.6	88.5	90.7	91.5	92.3
70°	62.8	64.3	65.4	66.2	68.4	68.8	73.0	76.4	79.8	83.6	84.7
72.5°	54.1	55.2	57.5	56.7	57.5	59.0	61.2	63.5	66.9	72.2	75.6
75°	44.2	45.0	46.5	47.3	48.8	49.9	51.4	53.3	56.3	59.0	63.5
77.5°	35.5	35.9	37.1	37.4	38.9	40.1	42.7	43.9	45.7	47.6	50.3
80°	28.7	28.7	29.1	29.1	30.2	31.4	33.3	34.4	36.7	38.2	38.2
82.5°	21.9	21.9	23.1	23.1	23.8	23.8	25.0	25.0	26.1	26.8	27.6
85°	15.5	15.9	16.6	16.3	17.0	16.6	17.4	18.1	18.5	18.1	17.8
87.5°	10.2	10.2	11.0	10.6	11.0	11.0	11.7	11.7	12.1	12.1	11.7
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	847.3	841.6	838.2	834.0	832.9	831.8	833.3	833.3	831.0	829.1	825.7
5°	866.9	860.9	854.5	847.7	841.2	834.4	831.8	831.4	827.2	825.0	823.8
7.5°	877.1	874.1	866.9	857.5	847.7	835.6	830.3	827.2	823.1	822.3	822.3
10°	878.3	874.9	871.1	864.3	852.9	837.1	826.9	820.8	817.0	819.7	824.6
12.5°	867.3	873.7	870.3	865.8	856.7	837.4	822.7	813.6	812.5	819.3	832.1
15°	839.3	858.2	867.7	863.2	856.0	836.7	815.9	805.3	805.3	819.3	835.9
17.5°	818.2	832.9	856.0	859.7	851.4	835.2	809.5	797.0	800.4	820.8	838.6
20°	800.8	809.8	832.1	853.3	845.4	831.8	800.0	787.2	794.0	818.5	842.4
22.5°	773.5	791.7	805.3	836.7	839.3	825.3	790.6	775.1	788.7	818.5	840.5
25°	747.1	769.0	783.4	814.0	830.3	817.4	781.9	762.2	783.0	817.4	839.0
27.5°	728.6	738.8	764.9	786.8	816.6	806.8	770.1	748.2	775.8	811.4	830.3
30°	708.9	715.7	741.4	762.2	798.5	794.7	758.0	732.7	766.7	805.7	807.6
32.5°	687.3	694.9	708.1	738.4	773.2	783.4	744.4	717.2	756.9	797.0	781.1
35°	665.4	671.1	681.7	714.2	743.7	766.4	727.8	699.4	750.1	783.8	755.8
37.5°	643.5	649.5	658.6	685.8	712.7	750.5	713.4	681.7	737.6	760.3	729.3
40°	622.7	626.1	635.5	652.6	687.0	734.2	697.2	663.1	724.8	730.4	693.4
42.5°	584.5	601.5	610.2	623.8	657.9	711.9	678.3	643.5	710.4	700.6	657.5
45°	543.3	580.3	584.1	597.7	632.1	688.1	660.5	624.2	696.8	674.9	623.5
47.5°	509.6	536.5	558.4	569.8	601.5	660.1	643.9	607.9	676.4	642.4	590.2
50°	479.8	494.1	533.8	542.2	564.8	626.5	624.2	589.0	648.0	601.5	557.7
52.5°	450.7	460.9	496.8	514.6	533.1	590.2	600.8	570.5	617.0	560.7	524.8
55°	425.3	428.7	448.4	485.8	502.5	553.5	575.1	549.0	577.7	521.7	493.0
57.5°	399.3	396.2	410.6	458.6	470.7	516.1	547.8	527.0	545.9	482.0	460.1
60°	372.0	367.9	373.9	405.7	437.1	479.0	515.7	502.8	507.4	442.7	423.4
62.5°	343.7	339.5	337.6	357.7	404.2	440.8	483.2	476.0	460.1	406.8	378.1
65°	314.2	310.0	307.0	314.9	367.9	391.3	446.9	445.0	408.3	369.0	318.3
67.5°	95.7	282.0	275.6	275.2	310.0	346.3	407.6	404.5	356.1	328.5	274.1
70°	86.2	228.7	243.1	239.7	254.8	300.6	362.6	360.3	305.5	263.5	242.3
72.5°	79.0	80.9	214.7	211.0	214.4	255.6	315.7	309.6	259.0	207.9	209.5
75°	67.7	71.1	74.1	178.1	173.5	211.7	264.7	255.2	213.6	171.6	175.1
77.5°	55.2	59.4	61.6	129.7	140.3	150.9	211.3	198.9	147.1	137.2	65.4
80°	41.2	44.6	48.4	51.8	106.6	105.5	156.9	144.4	102.5	85.4	51.0
82.5°	30.2	31.4	33.6	37.4	42.3	70.7	100.9	88.8	71.1	38.9	35.2
85°	18.9	20.4	21.6	22.7	25.7	42.3	49.9	39.7	29.9	23.8	22.3
87.5°	12.1	12.1	11.7	12.1	12.5	15.1	17.0	16.3	12.9	12.1	12.1
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	821.9	816.6	816.6	815.1	816.3	816.3	815.9	816.3	818.9	820.4	823.1
5°	821.6	820.1	823.5	827.6	832.5	838.6	840.1	845.4	850.3	856.7	863.5
7.5°	826.5	831.8	838.2	845.0	854.8	862.0	868.4	874.9	879.4	885.5	889.2
10°	833.7	844.2	855.2	863.9	874.5	880.5	884.7	885.5	879.0	868.8	860.5
12.5°	843.9	856.3	866.6	874.9	879.8	877.5	865.4	852.9	845.8	835.2	820.4
15°	852.6	863.9	874.5	871.1	857.9	845.4	835.9	821.2	806.8	797.0	790.6
17.5°	856.3	867.3	863.5	845.8	833.3	818.9	799.6	788.3	778.8	771.3	767.5
20°	858.6	856.7	836.3	823.5	799.3	786.0	773.5	763.0	755.8	752.0	751.2
22.5°	852.6	829.5	812.1	789.0	771.3	760.3	750.5	741.8	736.9	733.8	732.0
25°	832.5	805.7	780.0	761.8	746.7	737.3	729.7	722.5	716.5	714.9	711.2
27.5°	804.6	782.6	748.6	734.6	721.4	716.8	708.5	701.3	696.0	691.5	679.4
30°	781.5	746.7	722.1	709.3	701.3	696.0	686.6	679.0	670.0	653.3	646.5
32.5°	753.1	718.7	695.3	688.1	678.3	673.7	663.1	646.5	632.5	625.7	625.3
35°	716.5	688.1	671.1	664.7	656.7	649.2	627.2	612.1	605.3	606.1	611.7
37.5°	685.8	660.5	649.5	640.5	631.4	612.1	593.6	586.4	588.3	592.1	594.7
40°	654.8	635.5	623.1	615.9	595.5	576.6	566.7	569.4	572.8	575.4	578.8
42.5°	624.6	611.0	598.5	584.5	556.5	546.3	548.6	552.0	555.0	558.8	562.2
45°	595.9	583.8	569.4	537.6	523.6	526.3	529.7	532.3	536.9	539.5	542.9
47.5°	568.6	555.8	530.4	502.5	501.0	506.2	509.3	512.7	516.1	509.3	280.9
50°	538.0	524.8	486.2	475.6	479.0	483.9	487.7	491.1	437.4	173.9	133.8
52.5°	507.8	474.1	449.5	452.6	456.0	461.6	464.3	344.8	137.2	130.8	131.2
55°	474.1	431.0	423.8	427.6	430.6	436.3	289.2	126.7	125.9	125.5	128.5
57.5°	421.2	395.1	398.1	401.9	404.9	285.8	123.3	122.5	122.9	123.3	123.6
60°	373.9	368.2	371.7	375.1	265.4	119.1	116.8	117.2	118.7	117.6	114.6
62.5°	336.5	341.0	344.4	301.7	113.0	111.9	113.0	111.9	109.3	107.4	103.6
65°	307.8	312.3	314.9	106.2	105.9	107.4	106.2	102.5	98.3	93.0	91.9
67.5°	277.5	282.0	100.9	98.3	99.8	97.9	93.4	88.8	85.8	81.3	79.4
70°	246.1	105.5	91.5	91.1	88.5	85.4	80.5	76.0	72.2	70.3	68.4
72.5°	177.7	83.6	82.4	79.4	74.9	70.7	66.5	63.9	62.0	60.9	59.7
75°	74.1	72.6	69.2	63.9	59.4	57.5	54.4	52.6	51.8	49.5	48.8
77.5°	62.0	59.0	54.1	50.3	47.6	46.5	44.2	42.0	40.8	40.5	38.9
80°	47.6	43.5	41.2	39.3	38.6	35.9	33.3	32.1	31.4	31.0	29.9
82.5°	32.5	31.0	29.5	26.8	26.8	25.7	24.6	23.8	23.1	23.1	22.3
85°	21.2	20.0	19.7	18.5	18.5	17.8	17.4	17.0	16.6	16.3	15.9
87.5°	12.1	12.1	12.5	12.1	12.1	11.7	11.3	11.0	10.6	10.6	9.8
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	826.5	830.3	831.0	843.9	851.1	850.7	848.4	855.2	851.1	848.8	851.1
5°	870.3	874.9	878.7	892.6	897.6	899.8	899.4	903.2	900.2	897.6	897.6
7.5°	891.9	893.4	894.9	891.5	889.2	885.5	879.8	871.5	867.3	862.8	857.1
10°	856.3	851.4	853.3	846.5	840.8	836.7	831.4	824.6	818.9	814.8	808.3
12.5°	812.9	812.5	813.2	814.4	808.7	805.3	801.1	796.2	792.1	787.5	782.2
15°	786.4	786.8	789.8	788.7	786.8	784.9	780.4	778.8	775.1	770.1	767.1
17.5°	767.5	769.4	772.4	770.9	767.9	766.0	762.6	759.2	755.8	752.0	747.5
20°	750.9	752.8	754.6	752.8	747.1	744.4	739.9	729.3	721.8	714.2	707.4
22.5°	732.7	733.8	732.3	726.3	711.9	705.1	699.8	696.8	690.4	686.2	682.1
25°	710.0	703.6	693.8	687.0	681.3	678.3	676.0	675.6	674.9	674.1	672.2
27.5°	673.0	670.7	665.4	662.8	663.1	664.3	664.7	665.8	664.7	663.1	661.6
30°	645.4	646.5	646.9	647.6	649.5	650.7	651.1	652.6	651.8	650.7	649.9
32.5°	628.0	630.6	632.1	634.4	635.5	637.4	637.4	639.7	637.4	637.1	636.3
35°	613.6	615.9	616.6	620.0	621.2	623.1	623.1	625.0	623.1	603.8	476.8
37.5°	599.3	601.5	603.0	606.1	606.4	607.6	560.7	410.2	264.7	204.9	156.5
40°	582.2	584.9	586.4	587.5	412.9	262.0	180.3	146.7	146.7	147.8	149.0
42.5°	564.1	566.0	394.3	229.5	142.9	142.5	143.7	144.8	145.9	147.5	149.0
45°	443.5	223.8	142.2	138.8	139.9	141.4	142.9	144.4	146.3	147.8	148.6
47.5°	145.6	136.5	138.4	136.9	138.8	140.6	142.2	143.7	144.0	144.4	144.0
50°	134.6	134.6	135.7	135.7	137.2	138.0	138.0	138.0	136.5	136.1	135.0
52.5°	130.1	133.1	131.6	132.3	131.6	130.4	129.3	128.2	125.9	125.1	123.6
55°	127.8	128.9	125.1	124.0	122.5	119.5	118.0	116.4	114.6	113.8	111.9
57.5°	122.5	119.9	115.7	113.8	111.2	108.1	106.6	105.5	103.6	102.8	101.7
60°	112.7	107.4	104.7	102.5	99.4	96.8	95.7	94.9	93.4	93.0	91.9
62.5°	100.6	96.0	93.8	90.7	88.5	87.0	85.8	85.4	83.9	83.9	83.2
65°	87.3	85.1	83.2	80.2	79.0	77.5	77.1	76.7	76.0	75.6	74.9
67.5°	76.7	75.2	72.6	71.1	70.3	69.2	68.4	67.7	66.2	65.4	64.3
70°	67.3	66.2	63.5	62.4	60.9	59.0	57.8	57.1	56.0	55.2	54.1
72.5°	58.2	54.8	52.9	51.8	50.7	48.8	48.4	47.6	46.5	46.1	45.0
75°	46.9	44.2	43.1	42.3	41.2	40.1	40.1	40.1	38.9	38.6	38.2
77.5°	37.4	35.9	35.2	34.4	34.0	33.3	32.1	31.8	30.6	30.6	30.2
80°	28.7	28.0	27.2	26.8	26.5	25.7	25.0	24.6	23.4	23.4	23.1
82.5°	21.2	20.8	20.4	20.0	19.7	19.3	18.1	17.8	17.0	17.0	16.6
85°	15.1	14.7	14.0	13.6	13.6	13.2	12.1	11.7	11.0	11.0	11.0
87.5°	9.5	9.1	8.7	8.3	7.9	7.6	6.8	6.4	6.4	5.7	5.3
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	846.5	852.9	852.2	856.7	857.9	860.1	860.9	861.3	855.6	860.1	860.5
5°	896.4	897.6	898.3	900.2	902.1	902.5	900.6	898.3	899.1	897.6	893.8
7.5°	856.3	850.7	849.5	848.0	847.3	846.5	843.1	846.1	842.7	841.2	835.9
10°	807.2	801.9	801.5	801.5	802.7	802.3	801.5	800.0	803.0	801.1	800.0
12.5°	781.5	779.6	780.7	780.0	783.0	783.8	783.0	783.0	782.2	780.7	781.5
15°	766.0	764.5	765.6	764.5	766.7	767.1	765.2	766.4	764.5	762.6	761.8
17.5°	745.6	742.2	739.5	735.7	736.1	735.4	733.1	733.1	731.2	726.3	726.7
20°	706.2	702.8	701.3	701.3	703.2	704.0	703.6	704.4	702.5	701.7	698.7
22.5°	681.7	681.3	682.1	683.9	687.0	691.1	691.5	691.5	691.5	691.1	687.3
25°	673.0	673.0	673.7	676.4	678.7	681.7	682.4	683.2	682.4	682.4	679.0
27.5°	663.1	662.4	663.9	666.6	669.2	671.5	673.4	673.7	672.6	672.6	673.7
30°	651.1	650.7	652.6	655.2	657.5	659.7	661.6	663.1	661.6	661.6	660.5
32.5°	638.6	638.6	639.3	623.5	578.1	520.6	521.7	488.5	465.4	436.3	474.9
35°	398.5	290.0	249.2	211.0	184.1	166.7	166.4	160.7	158.0	156.1	155.8
37.5°	150.5	151.2	152.7	153.5	154.6	155.4	155.8	155.8	155.8	155.8	155.4
40°	150.1	151.6	152.7	153.9	155.0	155.8	155.8	156.1	156.5	156.5	156.5
42.5°	150.5	152.0	153.5	154.6	155.4	155.8	156.1	156.5	156.5	156.5	156.5
45°	150.1	150.9	150.9	151.2	151.2	151.2	151.6	151.6	151.2	150.9	151.6
47.5°	144.4	144.4	143.3	142.9	142.5	141.8	142.2	141.8	141.4	141.0	141.8
50°	134.6	133.1	132.3	131.6	131.2	130.4	130.8	130.4	130.1	129.3	130.4
52.5°	122.9	122.5	121.0	120.2	119.9	120.2	119.5	119.1	118.7	118.3	118.7
55°	111.5	110.0	109.6	108.9	108.5	108.9	108.5	108.1	107.8	107.4	107.8
57.5°	101.3	100.2	99.8	99.1	99.1	99.1	99.1	98.7	98.3	97.9	98.3
60°	91.5	90.7	90.4	90.4	90.0	90.0	90.0	89.6	89.2	89.2	89.6
62.5°	83.2	83.2	82.0	81.7	81.7	82.0	81.7	81.3	80.9	80.5	81.3
65°	74.5	73.0	72.6	71.8	71.1	71.5	71.1	70.7	70.3	69.9	70.7
67.5°	63.9	63.5	62.0	61.2	60.9	61.2	60.9	60.5	60.1	59.7	60.5
70°	53.7	53.7	52.2	51.8	51.4	51.4	51.0	51.0	50.7	50.3	51.0
72.5°	44.6	44.6	44.2	43.5	43.1	42.7	42.3	42.0	42.0	42.3	42.3
75°	37.1	36.3	34.8	35.2	34.8	34.4	34.4	34.0	33.6	34.4	34.0
77.5°	29.1	28.7	27.6	28.0	27.6	27.2	27.2	26.8	26.5	26.8	26.8
80°	21.9	21.9	21.6	21.2	21.2	20.8	20.4	20.4	20.0	20.4	20.4
82.5°	15.9	15.9	15.5	15.1	14.7	14.7	14.4	14.4	14.4	14.4	14.4
85°	10.2	9.8	9.8	9.1	9.1	9.1	8.7	8.7	8.7	8.7	8.7
87.5°	4.9	4.9	4.5	4.5	4.2	3.8	3.8	3.4	3.4	3.8	3.8
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	853.7	858.6	854.5	856.3	856.7	863.2	862.8	864.3	861.6	858.6	854.5
5°	897.2	894.9	891.9	899.1	895.3	899.8	901.3	904.4	904.4	904.0	900.6
7.5°	841.6	836.7	840.5	843.1	844.2	841.2	847.3	854.1	859.7	863.2	863.5
10°	798.1	799.6	799.3	800.4	803.0	802.7	806.4	810.2	811.7	814.0	814.8
12.5°	777.7	777.3	778.1	780.7	782.2	781.9	785.6	787.9	788.7	789.0	788.7
15°	761.4	758.8	760.7	761.1	762.2	762.2	766.7	770.1	771.7	772.4	771.7
17.5°	730.8	724.4	730.4	730.4	734.6	733.8	741.0	746.7	749.7	752.0	752.0
20°	700.6	697.6	699.8	699.1	702.1	701.7	706.2	710.0	712.7	714.6	716.8
22.5°	688.5	689.2	685.8	686.2	686.2	685.8	688.1	690.0	690.7	691.9	691.1
25°	680.5	681.3	680.2	678.3	677.5	678.3	679.4	681.7	682.1	681.3	678.7
27.5°	672.6	670.3	672.2	668.8	668.1	669.6	671.1	671.5	671.8	671.8	669.6
30°	660.5	658.6	660.5	659.0	657.5	659.0	660.1	660.1	660.9	661.3	658.6
32.5°	461.6	465.4	526.7	563.7	615.9	642.4	647.3	647.3	648.0	648.0	645.8
35°	157.3	157.7	170.5	184.9	215.5	253.3	302.8	328.5	415.5	519.5	620.0
37.5°	155.4	155.0	154.6	154.3	153.9	153.5	152.7	152.4	154.6	183.4	248.8
40°	156.1	155.8	155.0	154.6	154.3	153.5	153.1	152.4	151.6	150.9	150.1
42.5°	156.1	155.8	155.4	155.0	154.6	154.3	153.5	152.7	152.0	150.9	149.7
45°	150.9	150.9	151.2	151.2	151.6	151.6	151.6	151.2	151.2	150.9	149.3
47.5°	141.0	141.0	142.2	142.2	142.9	143.7	143.7	144.4	145.6	146.3	146.7
50°	129.7	129.7	130.8	131.2	131.9	133.1	134.2	134.6	135.7	137.2	138.8
52.5°	118.3	118.3	119.5	119.5	120.2	121.4	122.5	122.9	124.4	125.9	127.8
55°	107.8	107.8	108.5	108.9	109.3	110.0	111.2	111.2	112.7	113.8	115.7
57.5°	98.3	99.1	99.1	99.1	99.4	100.2	100.9	100.9	102.1	103.2	104.7
60°	89.2	90.0	90.0	90.0	90.4	90.7	91.5	91.5	92.3	93.0	94.5
62.5°	80.9	81.7	81.7	82.0	82.0	82.4	83.2	82.8	83.6	83.9	85.1
65°	70.3	71.1	71.5	71.8	72.2	73.0	74.1	73.7	74.9	75.6	76.7
67.5°	60.1	60.9	60.9	61.2	61.6	62.4	63.1	63.1	64.3	65.0	66.5
70°	50.7	51.4	51.4	51.8	52.2	52.9	53.7	53.3	54.4	55.2	56.3
72.5°	42.0	42.7	42.7	43.1	43.1	43.9	44.6	45.4	45.4	46.1	46.9
75°	34.0	34.4	34.8	34.8	35.2	35.5	36.3	37.1	37.4	37.8	38.6
77.5°	26.8	27.2	27.6	27.6	28.0	28.4	28.7	30.2	31.0	31.4	31.4
80°	20.4	20.8	20.8	20.8	21.2	21.6	22.3	22.3	23.8	23.8	24.2
82.5°	14.4	14.7	14.7	14.7	15.1	15.9	16.3	16.6	17.4	17.8	17.8
85°	8.7	9.1	9.1	9.1	9.5	9.8	10.6	11.0	11.3	11.3	11.7
87.5°	3.4	3.8	4.2	4.2	4.5	4.9	5.3	5.7	6.0	6.0	6.4
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	849.9	852.6	849.9	851.4	853.3	849.9	842.0	839.0	837.8	833.3	830.3
5°	897.2	897.2	896.0	899.1	898.7	893.4	885.1	881.3	877.5	872.6	868.8
7.5°	863.5	866.6	868.4	880.2	887.7	888.5	893.8	894.9	896.4	894.9	892.6
10°	815.1	814.0	819.3	830.3	836.7	840.1	850.3	855.2	859.4	867.7	876.4
12.5°	787.9	789.4	791.7	799.6	805.7	804.2	808.3	811.7	816.6	825.0	837.4
15°	769.8	771.3	773.5	779.6	783.4	781.5	783.8	786.0	789.4	793.6	801.1
17.5°	750.1	752.8	755.4	761.8	765.2	764.9	766.7	767.5	768.6	771.3	776.6
20°	719.5	727.8	733.1	741.8	746.7	745.9	749.4	750.5	752.0	754.6	756.9
22.5°	691.5	693.8	696.4	705.9	714.2	724.4	726.7	729.7	733.5	736.1	738.4
25°	675.6	674.1	675.2	681.7	686.2	687.0	690.4	700.2	710.4	714.9	720.2
27.5°	666.2	664.7	664.3	667.3	668.1	666.2	665.4	668.4	676.0	683.6	699.4
30°	656.0	654.1	652.6	655.2	656.3	653.7	648.8	646.1	650.7	652.6	659.0
32.5°	643.9	642.0	641.2	642.7	643.5	641.2	635.9	632.9	632.1	630.6	632.1
35°	630.3	628.4	627.2	627.6	629.1	627.2	622.7	618.9	617.0	612.9	609.8
37.5°	324.8	460.1	597.4	611.7	613.2	612.9	608.3	604.2	602.3	597.4	595.9
40°	148.6	166.0	249.2	325.5	469.6	596.6	592.4	588.3	584.9	583.4	577.7
42.5°	148.2	148.6	149.0	147.1	182.2	310.4	458.2	572.0	569.8	566.0	561.8
45°	148.2	146.3	147.8	145.6	146.3	145.9	181.9	293.4	522.1	545.6	543.7
47.5°	146.7	145.6	147.1	145.2	142.9	144.0	142.5	144.4	225.3	382.2	523.6
50°	139.9	140.6	143.3	142.9	141.0	142.5	139.9	142.2	140.3	153.9	296.4
52.5°	129.7	131.2	133.8	136.1	136.9	138.8	138.0	138.8	137.2	137.6	138.0
55°	117.6	119.5	121.7	125.1	126.7	129.7	131.9	133.1	135.0	134.6	131.6
57.5°	106.2	108.1	110.0	113.4	116.8	118.3	122.5	124.8	129.7	128.5	127.8
60°	95.7	97.2	99.1	99.8	104.0	106.6	110.4	112.7	119.1	120.6	122.9
62.5°	86.2	87.0	88.5	89.6	92.3	94.9	96.8	100.6	104.0	108.9	112.3
65°	77.5	78.3	79.4	80.2	80.5	84.3	85.4	89.6	90.7	96.0	99.1
67.5°	67.7	69.2	70.7	71.5	72.2	74.5	75.2	77.1	79.8	82.0	85.8
70°	57.5	58.6	60.1	61.2	62.8	64.3	66.5	67.7	69.6	71.1	74.1
72.5°	48.0	49.2	49.9	51.0	52.2	53.3	55.2	57.8	59.4	62.0	62.8
75°	38.9	40.1	40.8	41.6	42.7	43.5	44.2	46.9	48.4	50.7	52.9
77.5°	32.1	32.1	32.9	35.2	34.8	34.8	35.5	37.1	38.2	39.7	42.0
80°	25.0	25.3	25.7	27.6	28.0	28.4	28.0	29.1	30.2	30.6	32.1
82.5°	18.5	18.9	18.9	20.0	21.2	21.2	21.2	21.6	22.7	23.1	23.8
85°	12.5	12.9	13.2	13.6	14.4	14.7	15.1	15.1	15.9	16.3	16.6
87.5°	6.8	7.6	7.9	8.3	8.7	9.1	9.5	9.8	10.2	10.6	11.0
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	829.1	827.2	826.1	823.1	822.3	817.4	818.2	817.4	817.4	818.5	822.3
5°	864.7	855.6	853.3	846.9	841.6	832.5	826.9	823.8	819.3	817.4	820.1
7.5°	888.9	882.1	876.4	870.7	863.2	852.6	844.6	835.6	828.0	820.8	818.9
10°	884.7	892.3	892.3	888.9	881.7	871.1	861.6	850.3	837.1	825.7	818.9
12.5°	849.5	862.8	873.4	881.3	888.5	881.3	871.8	862.8	848.0	831.4	818.9
15°	811.0	824.6	837.8	854.5	871.8	879.0	878.7	868.1	854.8	837.4	820.1
17.5°	783.8	793.2	800.4	818.5	839.7	858.2	870.7	871.5	858.6	843.1	820.4
20°	763.3	770.1	776.2	786.4	804.9	827.6	850.7	863.5	861.3	844.2	821.6
22.5°	744.8	749.7	754.6	762.2	777.0	791.7	818.5	845.0	856.3	842.4	820.4
25°	726.3	731.6	735.4	740.7	752.4	764.5	783.4	816.3	841.6	840.8	818.2
27.5°	704.4	711.5	716.1	723.3	731.2	740.3	753.1	784.1	820.4	833.3	812.1
30°	677.9	688.5	695.3	703.2	710.0	718.0	728.2	747.1	792.1	818.5	805.7
32.5°	639.7	658.6	673.7	681.3	688.9	695.7	704.7	720.6	757.3	798.5	798.5
35°	612.5	621.2	634.8	656.7	666.2	673.0	681.3	693.8	717.2	774.7	786.8
37.5°	591.3	594.7	601.5	623.1	640.8	651.8	660.1	668.1	691.1	742.2	771.7
40°	575.4	574.3	573.5	583.8	609.1	626.5	635.9	643.9	661.6	703.2	751.6
42.5°	556.9	555.8	552.0	554.6	567.1	596.2	610.6	619.3	634.0	662.4	729.7
45°	537.6	535.7	534.2	531.6	536.1	552.4	581.9	594.7	603.0	628.4	702.1
47.5°	518.0	515.3	513.4	511.2	508.5	516.1	544.1	567.1	581.5	597.4	668.8
50°	490.0	493.4	491.1	488.5	486.2	484.7	496.4	534.2	552.0	564.8	628.4
52.5°	231.0	449.2	468.1	465.4	462.4	459.7	462.4	491.1	523.3	533.5	579.6
55°	131.6	200.0	416.3	440.1	437.4	433.7	431.4	441.2	489.2	502.8	535.0
57.5°	126.7	127.0	183.7	396.6	411.3	407.9	405.3	407.6	448.4	471.5	496.0
60°	122.5	122.5	122.5	175.4	379.2	380.3	376.9	373.2	390.9	436.3	456.7
62.5°	113.4	115.7	116.8	116.8	173.2	351.2	347.8	346.7	347.5	394.0	417.4
65°	101.7	107.0	109.3	110.8	110.8	181.9	318.0	316.1	313.4	331.2	377.7
67.5°	88.8	94.1	99.1	102.1	102.5	105.9	189.8	284.7	280.9	281.3	335.4
70°	75.6	80.2	85.4	90.0	94.1	96.0	99.1	236.3	248.8	243.5	287.3
72.5°	65.4	67.3	71.1	75.6	80.5	85.1	87.7	94.1	215.9	210.2	218.5
75°	54.4	56.0	58.6	61.6	65.4	70.7	75.2	79.8	114.6	176.2	175.1
77.5°	42.3	45.0	48.0	49.9	51.8	55.6	61.6	66.2	70.7	119.1	140.3
80°	32.5	34.4	35.9	37.8	40.1	42.7	45.0	50.3	55.6	59.7	107.4
82.5°	24.2	25.3	26.5	27.2	28.0	29.5	33.6	35.5	38.9	42.7	50.7
85°	17.0	17.8	18.5	18.9	19.3	19.7	21.2	21.6	25.0	25.7	30.6
87.5°	11.0	11.3	12.1	12.5	12.5	12.9	13.2	13.2	13.2	12.5	15.1
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: P1213669

CATALOG NUMBER: 2SNLED-LD5-18SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	825.0	825.0
2.5°	825.3	831.4
5°	824.2	832.1
7.5°	821.2	828.7
10°	816.6	825.7
12.5°	811.7	820.4
15°	807.6	814.0
17.5°	803.0	806.8
20°	797.0	800.0
22.5°	790.9	789.4
25°	784.1	780.7
27.5°	775.4	769.0
30°	767.5	756.2
32.5°	759.9	741.4
35°	749.7	726.3
37.5°	739.1	710.8
40°	726.7	693.0
42.5°	713.4	675.2
45°	696.8	658.2
47.5°	682.1	637.8
50°	661.6	615.9
52.5°	636.7	595.5
55°	607.2	570.5
57.5°	575.4	544.4
60°	541.4	514.6
62.5°	500.2	483.6
65°	451.8	448.0
67.5°	388.7	408.7
70°	318.7	363.7
72.5°	266.5	316.1
75°	218.5	262.8
77.5°	173.2	206.1
80°	108.1	150.9
82.5°	72.6	99.1
85°	43.9	47.3
87.5°	17.0	17.4
90°	0.0	0.0

(END OF REPORT)