

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: P1213677

Luminaire Tested: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

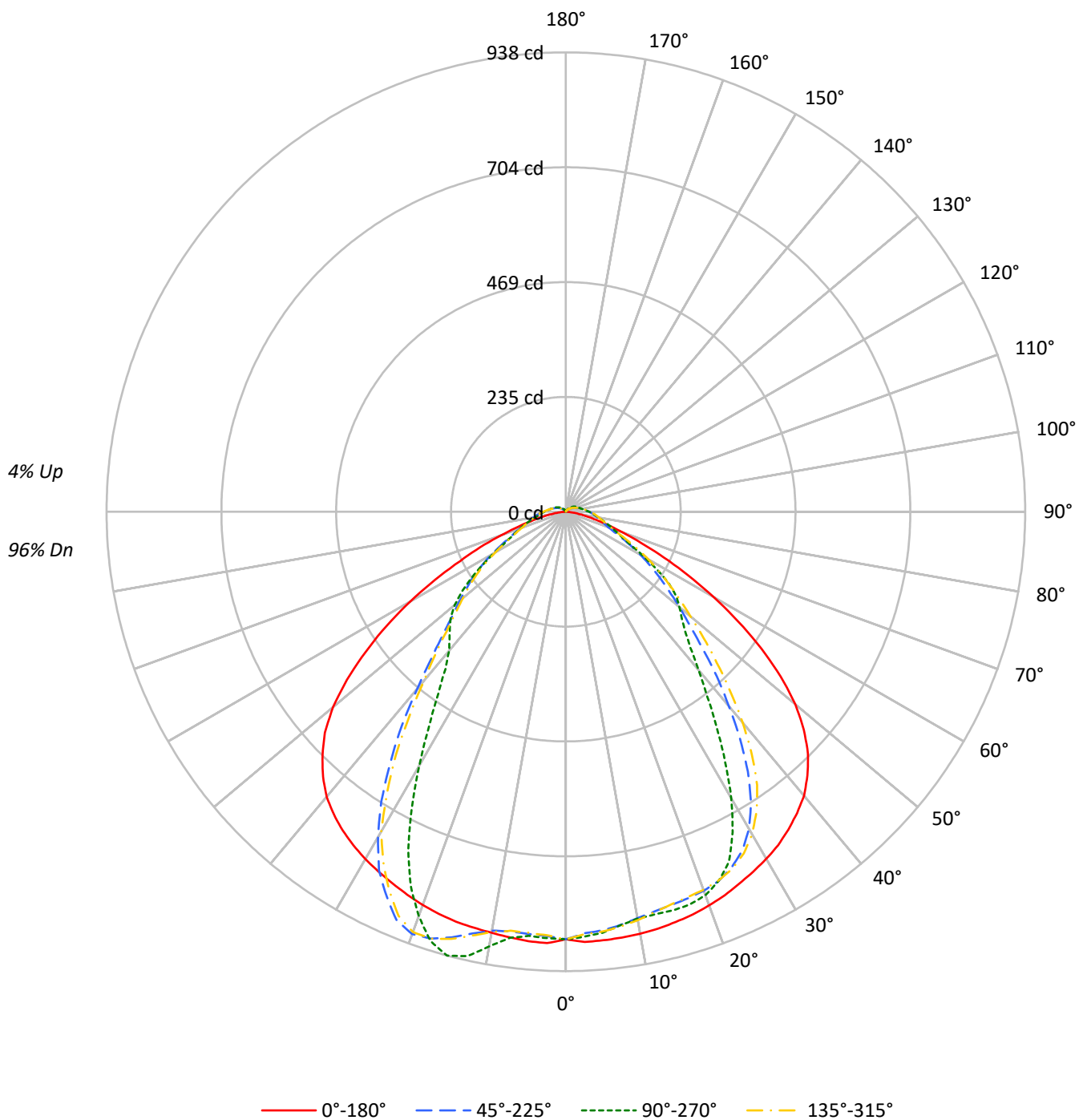
Lumens per Lamp: N/A
Luminaire Lumens: 2081.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14108	14108	14108	14108
5°	14172	13550	14201	13655
10°	14199	12985	14169	13867
15°	14269	12812	14261	14265
20°	14383	12608	14368	13290
25°	14517	11962	14509	11558
30°	14741	10367	14749	9184
35°	14975	8384	15018	7093
40°	15167	6750	15231	5946
45°	15043	5717	15121	5567
50°	14319	5264	14518	5146
55°	12621	4731	12934	4302
60°	10153	3622	10693	3320
65°	7466	2771	8043	2627
70°	5001	2391	5638	2287
75°	3195	2159	3722	2042
80°	1986	2011	2323	1850
85°	930	2008	1222	1833

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 15121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	4.0
10°-20°	246.7	11.9
20°-30°	375.1	18.0
30°-40°	402.4	19.3
40°-50°	349.2	16.8
50°-60°	258.8	12.4
60°-70°	148.3	7.1
70°-80°	82.1	3.9
80°-90°	50.0	2.4
90°-100°	32.5	1.6
100°-110°	21.8	1.0
110°-120°	14.7	0.7
120°-130°	9.0	0.4
130°-140°	4.8	0.2
140°-150°	2.2	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	704.7	33.9
0°-40°	1107.0	53.2
0°-60°	1715.0	82.4
0°-90°	1995.4	95.9
90°-120°	69.0	3.3
90°-150°	85.0	4.1
90°-180°	86.0	4.1
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	873	873	873	873	873	
5°	878	863	880	869	878	84
15°	867	843	867	938	867	245
25°	838	788	837	762	838	387
35°	792	537	794	454	792	496
45°	699	344	703	335	699	535
55°	488	258	500	234	488	433
65°	221	131	238	124	221	223
75°	63	83	74	78	63	72
85°	9	57	11	52	9	11
90°	0	48	1	44	0	0
95°	0	39	0	37	0	0
105°	0	29	0	28	0	1
115°	0	24	0	22	0	0
125°	0	18	0	15	0	0
135°	0	11	0	10	0	0
145°	0	7	1	5	0	0
155°	1	3	1	3	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	879.2	877.0	876.1	874.3	875.6	881.0	877.4	871.6	872.0	861.7	867.1
5°	878.3	875.6	874.3	872.5	873.4	878.3	874.7	868.9	868.4	858.0	863.0
7.5°	877.0	874.3	872.0	870.7	871.1	875.2	870.7	863.9	862.6	851.3	855.8
10°	874.7	872.9	869.8	867.5	867.1	871.6	864.4	857.6	854.4	842.7	847.2
12.5°	871.6	868.9	865.7	861.7	861.2	863.9	858.0	848.6	845.4	836.0	840.9
15°	867.1	863.9	860.3	855.8	853.5	855.3	848.1	839.6	839.1	831.0	837.8
17.5°	862.1	857.6	853.5	847.2	844.1	845.4	839.6	831.9	832.8	827.8	835.5
20°	855.3	850.4	844.1	837.8	833.2	835.5	831.4	825.6	826.9	823.3	830.1
22.5°	847.7	840.9	833.2	826.0	822.4	825.6	822.4	817.5	817.9	815.7	819.7
25°	837.8	830.1	821.1	812.1	810.3	812.5	810.7	806.6	804.8	801.2	803.0
27.5°	828.7	820.2	808.9	799.4	796.3	800.8	796.7	790.0	785.0	780.0	776.4
30°	818.4	808.0	795.4	784.6	781.8	783.7	777.8	767.4	754.3	748.0	738.1
32.5°	807.1	793.6	777.8	765.6	763.8	762.5	751.6	736.8	716.5	703.8	688.5
35°	792.2	777.3	758.4	743.5	740.8	733.2	715.6	695.7	669.6	647.9	621.8
37.5°	775.5	757.9	738.1	718.3	710.6	695.3	670.5	649.7	610.1	583.9	552.3
40°	756.6	735.4	711.1	687.2	674.5	649.7	621.3	590.7	552.3	517.2	490.6
42.5°	730.4	707.9	679.0	652.4	630.8	597.9	564.5	521.2	486.1	456.3	429.2
45°	699.3	672.3	638.9	606.9	579.4	540.2	500.9	457.7	428.3	393.6	375.1
47.5°	659.2	629.9	594.3	558.7	522.6	479.3	438.3	396.8	367.5	342.7	329.2
50°	611.9	584.8	545.6	503.2	463.5	418.4	377.4	346.3	317.9	302.5	292.2
52.5°	553.2	528.0	487.9	441.9	403.5	359.4	321.9	296.7	276.4	265.1	261.5
55°	487.9	465.8	426.1	383.3	344.0	303.5	275.0	253.0	239.9	233.1	233.6
57.5°	418.0	400.8	363.4	325.1	288.1	257.5	231.8	214.2	204.3	203.8	205.2
60°	348.1	335.5	303.0	270.1	237.6	212.8	193.9	181.7	175.4	175.8	175.4
62.5°	281.4	269.6	246.2	219.1	193.4	176.7	159.6	154.7	149.2	148.8	148.8
65°	221.4	212.4	193.4	174.0	154.7	143.8	135.3	129.4	125.3	124.4	124.9
67.5°	166.4	162.8	149.7	136.6	124.4	117.7	110.5	109.1	106.0	106.0	106.9
70°	124.0	121.3	114.1	106.4	101.5	96.9	93.3	93.3	92.9	92.4	94.7
72.5°	89.7	90.2	87.9	82.1	81.6	80.7	79.8	81.2	81.6	83.0	85.7
75°	63.1	64.5	64.5	63.6	65.4	67.6	69.0	71.2	73.9	75.7	78.9
77.5°	44.6	44.6	46.9	49.6	53.2	57.3	60.9	64.0	67.6	69.9	72.6
80°	28.9	30.2	33.8	38.8	43.7	49.1	54.1	58.2	61.8	65.4	67.2
82.5°	17.1	19.4	23.9	30.2	36.5	43.3	48.2	53.2	57.3	60.9	62.2
85°	8.6	11.7	17.1	23.9	30.7	37.9	44.2	48.7	53.2	56.4	58.2
87.5°	2.7	6.3	12.2	18.5	25.7	32.9	39.7	44.6	48.7	51.4	53.2
90°	0.0	3.2	8.6	15.3	22.1	29.3	35.6	41.0	45.1	47.3	48.7
92.5°	0.0	1.8	6.8	12.6	18.9	26.2	32.5	37.4	41.0	43.3	44.2
95°	0.5	1.4	5.0	10.4	16.7	23.4	29.3	33.8	37.4	39.7	40.1
97.5°	0.5	0.9	4.1	8.6	14.4	20.7	26.6	31.1	33.8	36.1	36.5
100°	0.5	0.9	3.2	7.7	12.6	18.5	23.9	28.0	31.1	32.9	33.4
102.5°	0.5	0.5	2.7	6.3	11.3	16.2	21.2	25.2	28.0	29.8	30.7
105°	0.5	0.5	2.3	5.4	9.9	14.4	18.9	23.0	25.2	27.1	28.0
107.5°	0.5	0.5	1.8	4.5	8.6	12.6	17.1	20.3	23.0	24.8	25.7
110°	0.5	0.5	1.4	4.1	7.2	11.3	14.9	18.0	20.7	22.5	23.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	0.5	1.4	3.6	6.3	9.9	13.1	16.2	18.5	20.3	21.6
115°	0.5	0.5	1.4	3.2	5.9	8.6	11.7	14.4	16.7	18.5	19.8
117.5°	0.5	0.5	1.4	2.7	5.0	7.7	10.4	13.1	14.9	16.7	18.0
120°	0.5	0.5	0.9	2.3	4.5	6.8	9.0	11.3	13.5	15.3	16.7
122.5°	0.5	0.5	0.9	2.3	3.6	5.9	8.1	9.9	12.2	13.5	14.9
125°	0.5	0.5	0.9	1.8	3.2	5.4	7.2	9.0	10.4	12.2	13.5
127.5°	0.5	0.5	0.9	1.8	2.7	4.5	6.3	8.1	9.5	10.8	11.7
130°	0.5	0.5	0.9	1.4	2.3	3.6	5.4	6.8	8.6	9.5	10.4
132.5°	0.5	0.5	0.5	1.4	1.8	2.7	4.1	5.9	7.2	8.6	9.0
135°	0.5	0.5	0.5	0.9	1.8	2.3	3.2	4.5	5.9	7.2	8.1
137.5°	0.5	0.5	0.5	0.9	1.4	2.3	2.7	3.6	5.0	5.9	7.2
140°	0.5	0.5	0.5	0.9	1.4	1.8	2.3	3.2	4.1	5.0	5.9
142.5°	0.5	0.5	0.5	0.9	0.9	1.4	1.8	2.7	3.2	4.1	5.0
145°	0.5	0.5	0.5	0.9	0.9	1.4	1.8	2.3	2.7	3.2	4.1
147.5°	0.5	0.5	0.5	0.9	0.9	0.9	1.4	1.8	2.3	2.7	3.2
150°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.8	2.3	2.7
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.8	2.3
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.8	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	865.3	866.2	871.6	871.1	870.2	869.3	869.3	868.4	869.3	871.6	870.7
5°	860.8	862.1	866.2	865.7	864.8	864.4	863.9	862.6	863.5	866.6	865.7
7.5°	852.6	854.0	857.6	855.8	854.4	855.3	853.1	851.7	853.5	856.7	856.2
10°	844.1	845.0	849.5	848.6	846.3	846.8	844.5	843.6	845.9	847.7	848.1
12.5°	838.2	841.4	845.4	845.0	844.5	845.0	842.7	841.8	843.2	845.0	844.5
15°	836.9	840.9	845.4	845.4	845.9	846.3	844.1	842.7	844.1	845.4	845.0
17.5°	835.5	840.5	844.5	844.1	844.5	845.4	841.8	840.9	842.7	844.5	843.6
20°	831.0	835.5	838.2	837.3	837.3	837.8	833.2	833.2	836.0	837.3	837.8
22.5°	818.4	823.8	823.8	821.5	821.5	819.7	818.4	815.7	818.8	821.1	822.9
25°	799.4	801.7	799.0	794.0	791.3	789.1	782.7	788.2	788.2	794.9	797.2
27.5°	772.8	767.9	760.2	749.8	747.6	740.4	736.3	737.7	739.9	749.4	756.6
30°	729.1	714.2	701.1	696.6	686.7	679.5	672.3	675.9	679.9	685.4	700.2
32.5°	671.4	656.9	635.8	628.1	617.7	608.7	600.1	605.5	612.8	616.4	632.6
35°	605.1	588.0	568.6	555.5	544.7	539.7	528.9	536.6	544.2	546.9	560.9
37.5°	534.8	517.2	500.0	488.8	478.4	475.2	468.0	473.4	479.3	483.4	495.1
40°	468.0	451.8	438.7	431.1	423.8	421.1	418.4	420.7	425.2	428.3	437.4
42.5°	410.8	397.7	388.7	384.2	379.2	375.6	376.0	376.9	379.2	386.0	390.0
45°	360.7	353.0	347.2	346.3	343.1	342.7	342.2	344.0	345.4	349.4	352.6
47.5°	320.6	317.4	316.1	317.9	319.2	317.4	318.3	320.6	323.3	323.3	322.8
50°	289.0	289.9	291.7	295.8	298.5	299.4	300.3	303.0	303.5	304.4	303.0
52.5°	263.3	264.2	269.2	275.5	278.7	280.0	281.8	284.5	284.5	285.4	283.6
55°	237.2	238.5	243.5	249.8	252.5	254.3	256.1	257.9	259.3	261.1	259.7
57.5°	208.3	212.4	215.5	217.3	219.1	220.5	221.8	222.3	225.0	225.4	227.7
60°	177.7	178.6	181.7	181.3	179.9	183.5	181.7	184.9	188.0	192.1	192.5
62.5°	148.3	148.8	151.0	150.1	152.0	151.5	152.9	152.9	155.1	156.9	159.2
65°	125.3	125.8	127.6	127.6	127.2	128.5	129.9	130.8	130.8	132.1	133.9
67.5°	108.2	109.6	111.4	112.3	113.2	113.2	114.5	115.0	115.9	116.3	117.2
70°	96.5	98.3	100.1	101.0	101.5	102.4	102.8	102.8	103.7	104.2	105.1
72.5°	87.9	89.7	91.1	91.1	92.0	92.4	92.4	92.9	93.3	94.2	95.1
75°	80.7	82.1	83.0	82.5	82.5	82.5	83.0	83.0	83.9	84.8	85.7
77.5°	73.9	75.3	75.3	74.4	74.4	74.4	74.4	74.8	75.3	76.2	77.1
80°	69.0	69.0	68.5	68.5	67.6	67.2	67.2	67.6	67.6	68.5	69.9
82.5°	63.6	63.6	63.1	62.7	62.2	61.8	61.8	62.2	62.7	63.1	64.0
85°	58.6	58.6	57.7	57.7	57.3	57.3	57.3	57.3	57.7	58.2	59.1
87.5°	53.7	53.2	52.8	52.3	52.3	52.3	52.3	52.3	52.8	53.7	54.1
90°	48.7	48.2	47.8	47.8	47.3	47.3	47.8	47.8	48.2	48.7	49.1
92.5°	44.2	43.7	43.3	43.3	42.8	42.8	43.3	42.8	43.7	43.7	44.2
95°	40.1	39.7	39.2	39.2	39.2	39.2	39.2	39.2	39.7	39.7	40.1
97.5°	36.5	36.1	35.6	35.6	36.1	35.6	36.1	36.1	36.1	36.5	37.0
100°	33.4	32.9	32.9	33.4	32.9	32.9	33.4	33.4	33.4	33.4	33.8
102.5°	30.7	30.7	30.7	30.7	30.7	30.7	31.1	31.1	31.1	31.1	31.6
105°	28.0	28.4	28.4	28.4	28.9	28.9	28.9	29.3	29.3	29.3	29.3
107.5°	26.2	26.6	26.6	27.1	27.1	27.5	27.5	27.5	27.5	28.0	28.0
110°	24.3	24.8	25.2	25.7	25.7	26.2	26.2	26.2	26.2	26.2	26.2

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	22.5	23.0	23.4	24.3	24.8	24.8	24.8	24.8	25.2	25.2	24.8
115°	20.7	21.6	22.1	23.0	23.4	23.4	23.9	23.9	23.9	23.9	23.4
117.5°	18.9	20.3	20.7	21.6	22.1	22.1	22.5	22.5	22.5	22.5	22.1
120°	17.6	18.5	19.4	19.8	20.3	20.7	20.7	21.2	21.2	21.2	20.7
122.5°	16.2	17.1	18.0	18.5	18.9	19.4	19.4	19.4	19.4	19.4	19.4
125°	14.4	15.3	16.2	16.7	17.1	17.6	17.6	18.0	18.0	18.0	17.6
127.5°	13.1	14.0	14.4	15.3	15.8	15.8	16.2	16.2	16.2	16.2	15.8
130°	11.3	12.2	13.1	13.5	14.0	14.0	14.4	14.4	14.4	14.4	14.4
132.5°	9.9	10.8	11.3	12.2	12.2	12.6	12.6	13.1	13.1	13.1	12.6
135°	9.0	9.5	9.9	10.8	10.8	11.3	11.3	11.3	11.3	11.3	11.3
137.5°	8.1	8.6	9.0	9.5	9.5	9.9	9.9	9.9	9.9	10.4	9.9
140°	6.8	7.7	8.1	8.1	8.6	8.6	8.6	9.0	9.0	9.0	8.6
142.5°	5.9	6.3	6.8	7.2	7.7	7.7	7.7	7.7	8.1	7.7	7.7
145°	4.5	5.4	5.9	6.3	6.8	6.8	6.8	6.8	6.8	6.8	6.8
147.5°	3.6	4.1	5.0	5.4	5.4	5.9	5.9	5.9	5.9	5.9	5.9
150°	3.2	3.2	4.1	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
152.5°	2.3	2.7	3.2	3.6	4.1	4.1	4.1	4.1	4.1	4.1	4.1
155°	2.3	2.3	2.7	2.7	3.2	3.2	3.2	3.2	3.6	3.2	3.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	869.3	868.9	870.7	868.9	859.9	863.5	862.1	867.1	867.5	868.9	873.4
5°	864.8	864.8	867.1	865.3	856.7	860.3	859.9	864.8	865.7	866.6	871.6
7.5°	855.8	856.2	859.4	858.0	849.0	854.4	854.0	859.9	861.7	863.5	868.0
10°	847.2	846.8	850.4	849.0	840.5	846.8	846.3	852.2	854.9	858.0	863.5
12.5°	842.7	841.4	842.7	841.4	831.9	836.9	837.3	844.1	847.2	851.3	857.6
15°	842.7	840.5	840.5	837.8	826.9	830.1	830.5	835.1	839.1	843.2	850.8
17.5°	841.8	839.6	839.1	836.9	825.1	825.1	824.7	827.8	830.1	834.2	842.3
20°	836.9	836.0	835.5	834.2	823.3	821.5	820.6	820.6	822.0	823.3	831.4
22.5°	823.8	824.7	825.6	826.5	817.9	814.8	815.2	814.3	813.0	813.0	819.7
25°	799.4	803.9	807.5	811.6	806.6	804.4	807.1	805.7	803.5	801.7	807.5
27.5°	760.7	770.1	777.8	787.7	788.2	786.4	793.6	792.7	792.2	789.5	794.0
30°	707.0	721.9	732.2	746.7	758.9	760.7	772.8	774.6	776.4	775.1	779.6
32.5°	642.1	662.4	679.9	702.5	714.2	724.6	741.7	748.9	756.1	758.4	763.4
35°	571.3	594.3	615.0	639.8	658.3	680.8	701.6	712.4	728.6	735.0	742.2
37.5°	504.1	525.7	546.0	570.8	600.6	624.0	649.7	674.1	696.2	705.2	716.0
40°	444.6	462.2	481.6	503.2	530.2	560.9	588.9	622.7	648.8	666.9	682.7
42.5°	399.5	408.1	424.7	444.1	465.8	496.9	525.3	563.2	594.7	620.4	646.6
45°	359.4	363.4	375.6	386.0	408.1	435.6	465.8	502.7	535.7	568.6	600.1
47.5°	325.1	330.1	335.9	342.2	358.0	381.0	407.2	440.5	473.4	511.8	547.8
50°	302.1	303.5	304.4	307.1	316.5	332.3	353.5	381.9	413.5	454.5	492.8
52.5°	281.8	281.8	279.1	277.7	281.4	291.3	303.5	323.7	356.2	394.1	434.7
55°	260.2	256.1	255.2	250.7	251.6	256.1	262.0	277.7	304.4	336.8	376.0
57.5°	230.0	228.2	228.2	226.3	222.7	225.0	226.3	237.6	256.6	284.5	318.8
60°	195.2	194.3	196.6	197.0	193.9	195.2	194.8	201.5	215.1	237.6	266.0
62.5°	160.5	164.6	165.0	166.8	165.0	164.6	166.8	172.7	179.5	196.6	218.7
65°	134.8	137.1	137.5	139.8	138.9	138.9	140.7	145.2	149.2	161.0	178.1
67.5°	118.1	117.2	117.7	119.0	117.7	117.2	118.6	121.3	124.4	131.7	143.8
70°	105.1	104.2	104.2	104.2	102.4	101.0	101.5	102.4	103.7	107.8	115.4
72.5°	95.1	95.1	93.8	92.4	91.1	90.2	89.3	88.4	87.9	89.3	93.3
75°	86.1	86.6	86.1	84.8	83.0	81.2	79.4	77.6	75.3	74.4	74.8
77.5°	78.0	78.5	78.9	78.5	76.7	74.4	71.7	69.0	65.8	62.7	60.9
80°	70.8	71.7	72.1	71.7	70.3	68.5	65.4	62.2	57.7	53.7	49.1
82.5°	64.5	65.8	66.3	66.3	65.4	63.6	60.0	56.4	51.4	46.0	40.1
85°	59.5	60.4	61.3	61.3	60.9	59.1	55.5	51.4	46.4	40.1	33.8
87.5°	54.6	55.0	55.9	56.8	55.9	54.1	51.0	46.4	41.5	35.2	28.0
90°	49.6	50.0	51.0	51.9	51.4	49.6	46.9	42.8	37.4	30.7	23.4
92.5°	44.6	45.5	46.0	46.4	46.9	45.5	43.3	39.2	33.8	27.1	20.3
95°	41.0	41.0	41.9	42.4	42.8	41.5	39.7	35.6	30.7	24.3	17.6
97.5°	37.4	37.4	38.3	38.3	38.8	37.9	36.1	32.5	27.5	21.6	14.9
100°	33.8	34.3	34.7	35.2	35.2	34.7	32.9	29.3	24.8	19.4	13.1
102.5°	31.6	31.6	32.0	32.0	32.5	31.6	29.8	26.6	22.1	17.1	11.3
105°	29.3	29.3	29.8	29.8	29.3	28.4	26.6	23.9	19.8	14.9	9.9
107.5°	27.5	27.5	27.5	27.5	27.1	26.2	24.3	21.2	17.6	13.5	9.0
110°	26.2	25.7	25.7	25.2	24.8	23.4	21.6	18.9	15.8	11.7	7.7

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	24.8	24.3	23.9	23.4	22.5	21.2	19.4	17.1	14.0	10.4	6.8
115°	23.4	23.0	22.5	21.6	20.7	19.4	17.6	15.3	12.2	9.0	5.9
117.5°	22.1	21.6	20.7	19.8	18.9	17.6	15.8	13.5	10.8	8.1	5.4
120°	20.3	19.8	19.4	18.5	17.6	15.8	14.0	12.2	9.5	7.2	4.5
122.5°	18.9	18.5	17.6	17.1	15.8	14.4	12.6	10.8	8.6	6.3	4.1
125°	17.1	16.7	16.2	15.3	14.4	12.6	11.3	9.5	7.7	5.4	3.2
127.5°	15.8	15.3	14.4	13.5	12.6	11.3	9.9	8.6	6.8	4.5	3.2
130°	14.0	13.5	13.1	12.2	11.3	9.9	9.0	7.2	5.9	4.1	2.7
132.5°	12.2	12.2	11.7	10.8	9.9	9.0	7.7	6.3	5.0	3.6	2.3
135°	11.3	10.8	10.4	9.5	9.0	7.7	6.8	5.4	4.1	3.2	1.8
137.5°	9.9	9.5	9.0	8.6	7.7	6.8	5.9	4.5	3.6	2.7	1.8
140°	8.6	8.1	8.1	7.2	6.8	5.9	5.0	4.1	3.2	2.3	1.4
142.5°	7.7	7.2	6.8	6.3	5.9	5.0	4.1	3.2	2.7	1.8	1.4
145°	6.8	6.3	5.9	5.4	5.0	4.1	3.6	2.7	2.3	1.8	1.4
147.5°	5.4	5.4	5.0	4.5	4.1	3.6	3.2	2.7	1.8	1.4	0.9
150°	4.5	4.5	4.1	3.6	3.6	3.2	2.7	2.3	1.8	1.4	0.9
152.5°	4.1	3.6	3.6	3.2	3.2	2.7	2.3	1.8	1.4	1.4	0.9
155°	3.2	3.2	3.2	2.7	2.7	2.3	1.8	1.8	1.4	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	874.3	868.9	873.4	881.5	880.6	879.7	878.8	880.6	886.5	883.3	878.3
5°	872.9	867.5	872.5	880.1	879.7	878.3	877.4	879.2	885.1	881.9	876.5
7.5°	870.2	865.3	868.9	876.5	876.5	875.6	874.7	876.5	881.9	879.2	873.8
10°	865.7	862.1	865.7	872.9	873.4	871.6	870.7	872.9	878.3	877.0	872.5
12.5°	862.1	858.5	862.6	869.8	870.2	868.4	867.1	869.8	877.0	877.9	876.5
15°	857.1	854.0	858.9	866.6	866.6	865.3	865.3	868.9	878.8	882.8	885.1
17.5°	849.9	847.7	853.5	861.2	861.7	860.8	861.2	868.4	881.5	891.4	897.7
20°	840.9	840.0	846.3	854.4	855.8	856.2	858.5	869.3	887.4	900.9	907.2
22.5°	830.1	830.5	837.8	846.3	848.1	849.5	854.0	869.3	891.9	906.3	909.0
25°	817.9	819.3	826.9	837.3	839.6	842.3	849.9	869.8	893.2	902.7	898.2
27.5°	804.8	807.5	817.5	828.3	831.0	835.5	845.4	867.1	886.9	887.4	870.7
30°	791.3	794.5	806.2	818.8	823.3	827.8	840.0	860.8	871.6	857.1	827.8
32.5°	776.0	780.5	792.2	807.5	813.0	818.8	831.0	848.6	844.5	813.4	771.5
35°	756.6	762.9	776.4	794.5	799.4	807.1	815.7	819.7	801.7	757.5	710.2
37.5°	732.7	742.2	757.9	778.7	784.1	789.1	791.3	780.0	744.0	696.2	647.0
40°	705.2	719.6	736.8	759.8	765.2	765.2	757.0	733.2	687.6	624.9	570.4
42.5°	671.8	689.4	711.1	734.1	739.5	733.2	713.8	671.8	620.0	550.1	492.4
45°	631.2	654.7	679.0	702.9	705.6	691.7	656.9	603.7	539.7	474.8	419.8
47.5°	583.0	613.7	640.3	667.3	663.7	640.3	593.8	533.4	465.8	404.5	360.3
50°	528.9	565.0	594.7	620.4	612.8	580.3	525.7	462.6	395.4	343.1	306.6
52.5°	471.2	512.7	542.4	563.2	552.8	514.0	454.0	393.6	338.6	290.8	266.5
55°	411.2	453.1	483.8	500.0	486.5	444.6	385.5	330.5	278.7	247.5	233.1
57.5°	353.0	392.3	421.1	434.2	417.1	375.1	320.6	274.1	236.7	210.6	203.4
60°	297.1	329.2	356.7	366.6	348.1	309.3	262.4	225.4	197.9	179.9	176.3
62.5°	245.3	271.4	293.1	300.7	282.7	252.5	211.9	184.4	165.0	156.0	151.5
65°	202.5	217.8	239.9	238.5	227.7	199.7	170.0	150.6	138.0	132.1	129.4
67.5°	159.2	173.1	187.1	188.9	175.4	156.0	136.6	122.6	115.9	112.7	111.4
70°	123.1	133.5	142.0	139.8	132.6	120.4	108.2	100.5	97.8	96.5	96.5
72.5°	95.6	101.0	105.1	102.4	97.8	91.5	85.7	82.5	83.0	83.9	84.8
75°	73.9	75.3	76.2	73.5	72.6	68.5	68.1	68.5	71.2	73.9	75.3
77.5°	56.8	55.0	53.7	51.0	51.4	51.0	53.2	56.8	60.9	64.9	68.5
80°	43.7	39.7	36.5	33.8	35.2	37.4	41.9	47.3	52.8	57.3	61.8
82.5°	33.8	28.0	23.4	20.7	23.4	27.1	32.9	39.7	46.0	51.0	55.9
85°	26.2	19.4	14.0	11.3	14.0	19.4	25.7	33.4	40.1	45.5	50.5
87.5°	20.3	14.0	7.7	4.5	7.7	13.5	20.7	28.0	34.7	41.0	46.0
90°	16.2	9.5	3.6	0.9	4.1	9.5	16.2	23.4	30.2	37.0	41.9
92.5°	13.1	6.8	1.8	0.0	2.3	7.2	13.5	20.3	27.1	33.4	38.3
95°	10.8	5.4	1.4	0.0	1.8	5.4	10.8	17.6	23.9	30.2	34.3
97.5°	9.0	4.1	0.9	0.0	0.9	4.5	9.0	14.9	21.2	27.1	31.1
100°	7.7	3.6	0.9	0.0	0.9	3.6	7.7	13.1	18.5	23.9	28.0
102.5°	6.3	2.7	0.5	0.5	0.5	2.7	6.8	11.3	16.2	21.2	25.2
105°	5.9	2.3	0.5	0.5	0.5	2.3	5.9	9.9	14.4	18.9	22.5
107.5°	5.0	1.8	0.5	0.5	0.5	1.8	5.0	8.6	13.1	17.1	20.3
110°	4.1	1.8	0.5	0.5	0.5	1.8	4.1	7.7	11.3	14.9	18.0

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	3.6	1.4	0.5	0.5	0.5	1.4	3.6	6.8	9.9	13.5	16.2
115°	3.2	1.4	0.5	0.5	0.5	1.4	3.2	5.9	8.6	11.7	14.4
117.5°	2.7	1.4	0.5	0.5	0.5	0.9	2.7	5.0	7.7	10.4	13.1
120°	2.3	0.9	0.5	0.5	0.5	0.9	2.3	4.5	6.8	9.0	11.3
122.5°	2.3	0.9	0.5	0.5	0.5	0.9	1.8	3.6	5.9	7.7	9.9
125°	1.8	0.9	0.5	0.5	0.5	0.5	1.8	3.2	5.0	6.8	8.6
127.5°	1.8	0.9	0.5	0.5	0.5	0.5	1.4	2.7	4.1	5.9	7.7
130°	1.4	0.9	0.5	0.5	0.5	0.5	0.9	2.3	3.6	5.0	6.3
132.5°	1.4	0.9	0.5	0.5	0.5	0.5	0.9	1.8	2.7	4.1	5.4
135°	1.4	0.5	0.5	0.5	0.5	0.5	0.5	1.4	2.3	3.2	4.1
137.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.8	2.3	3.6
140°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.8	2.7
142.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	2.3
145°	0.9	0.5	0.5	0.9	0.9	0.5	0.5	0.9	0.9	1.4	1.8
147.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	877.4	867.1	872.5	870.7	872.5	877.0	876.5	875.2	876.1	873.8	871.6
5°	875.6	865.3	870.7	868.4	870.7	875.2	874.3	872.9	874.3	871.6	869.3
7.5°	873.4	863.9	870.2	869.8	873.8	879.7	880.1	880.1	883.3	879.2	877.4
10°	873.4	868.4	877.0	880.1	890.5	898.2	899.1	900.9	906.3	905.4	900.9
12.5°	882.8	881.9	894.6	902.2	911.7	922.5	928.4	930.2	933.8	931.1	929.3
15°	895.0	899.5	913.5	922.1	932.4	940.6	941.9	942.8	945.5	941.5	938.3
17.5°	911.3	914.0	925.2	928.8	935.6	937.0	935.1	930.6	930.6	921.6	918.9
20°	918.9	917.6	922.1	916.2	913.5	905.4	897.7	889.2	888.7	879.2	878.3
22.5°	912.2	903.1	893.7	879.2	872.9	861.2	850.8	845.9	842.7	830.5	827.4
25°	888.3	866.2	852.2	835.1	819.7	806.2	796.3	785.9	776.0	766.1	761.6
27.5°	846.8	826.0	803.5	779.6	758.4	737.7	721.0	710.6	701.1	688.1	681.3
30°	795.8	767.0	742.2	719.2	684.5	659.2	645.2	624.5	617.3	611.4	598.8
32.5°	735.9	701.1	667.3	636.2	600.6	577.1	558.7	543.3	538.8	523.5	519.9
35°	669.6	624.0	585.7	555.0	529.3	500.9	485.6	475.2	466.2	455.9	454.0
37.5°	591.6	550.5	507.3	480.2	459.9	435.6	423.8	416.6	412.6	404.9	403.5
40°	513.1	472.1	442.3	415.3	402.6	389.6	381.0	377.8	376.0	373.3	370.6
42.5°	441.9	405.8	384.6	366.6	361.2	354.9	352.6	354.4	352.6	351.7	351.2
45°	381.5	354.0	339.1	333.7	332.3	330.5	332.3	335.5	335.9	335.0	335.0
47.5°	326.4	313.4	307.1	308.0	310.2	311.6	314.7	318.8	319.7	317.4	318.3
50°	290.4	282.7	281.4	285.0	289.9	291.7	295.3	298.5	298.0	297.1	296.2
52.5°	256.6	254.3	257.9	261.5	266.9	267.8	269.2	270.5	270.1	268.3	267.4
55°	228.2	230.0	233.1	234.5	238.5	238.1	238.5	238.5	236.7	235.8	234.5
57.5°	202.5	202.9	204.7	205.2	207.4	206.5	206.1	205.2	202.5	202.0	200.6
60°	176.3	175.4	179.5	176.3	178.1	176.3	175.8	173.6	170.9	170.4	169.5
62.5°	151.5	149.7	152.4	151.0	152.0	150.1	149.2	146.5	144.3	143.8	143.4
65°	129.4	128.5	131.2	130.8	131.7	129.4	128.5	126.7	124.9	124.4	124.0
67.5°	110.9	113.2	114.5	114.5	115.4	115.0	112.7	112.3	111.8	110.0	110.0
70°	97.4	98.7	101.5	101.9	101.5	102.4	100.5	100.1	99.6	98.7	98.3
72.5°	86.6	88.4	91.1	91.5	91.1	91.1	90.2	89.7	89.7	88.4	88.4
75°	78.0	80.3	82.5	82.5	82.5	81.6	80.7	80.7	79.8	79.4	78.5
77.5°	70.8	73.5	75.3	74.8	74.4	73.5	73.5	72.1	70.8	70.8	69.9
80°	65.4	67.2	68.5	68.1	67.6	66.3	65.8	64.5	63.6	62.2	62.2
82.5°	59.5	61.8	62.7	62.2	61.3	60.0	59.5	58.6	57.7	57.3	56.4
85°	54.6	56.8	57.3	56.4	55.5	54.6	54.1	53.7	53.2	52.3	52.3
87.5°	49.6	51.9	51.9	51.4	50.5	50.0	49.6	49.1	48.7	48.2	47.8
90°	45.5	47.3	47.3	46.9	46.4	46.0	45.5	45.1	44.6	44.2	44.2
92.5°	41.5	43.3	43.3	42.8	42.4	41.9	41.9	41.5	41.0	40.6	40.1
95°	37.9	39.7	39.7	39.7	39.2	38.8	38.8	38.3	37.9	37.9	37.4
97.5°	34.3	36.1	36.1	36.1	35.6	35.2	35.2	34.7	34.7	34.7	34.3
100°	31.1	32.5	32.9	32.9	32.5	32.5	32.5	32.0	32.0	32.0	31.6
102.5°	28.0	29.3	30.2	30.2	30.2	29.8	29.8	29.8	29.8	29.8	29.3
105°	25.2	26.6	27.5	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
107.5°	23.0	24.3	25.2	25.7	26.2	26.2	26.6	26.6	26.6	26.6	26.6
110°	20.7	22.1	23.4	23.9	24.3	24.8	24.8	25.2	24.8	24.8	24.8

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	18.5	20.3	21.2	22.1	22.5	23.0	23.4	23.4	23.4	23.4	23.4
115°	16.7	18.5	19.4	20.3	21.2	21.6	21.6	22.1	22.1	22.1	21.6
117.5°	14.9	16.7	17.6	18.5	18.9	19.8	20.3	20.3	20.3	20.3	19.8
120°	13.5	14.9	15.8	16.7	17.6	18.0	18.5	18.5	18.5	18.5	18.5
122.5°	11.7	13.1	14.4	15.3	15.8	16.2	16.7	16.7	16.7	16.7	16.7
125°	10.4	11.7	12.6	13.5	14.0	14.9	14.9	14.9	14.9	14.9	14.9
127.5°	9.0	10.4	11.3	12.2	12.6	13.1	13.5	13.5	13.5	13.5	13.5
130°	7.7	9.0	9.9	10.8	11.3	11.7	11.7	12.2	12.2	12.2	12.2
132.5°	6.8	7.7	8.6	9.5	9.9	10.4	10.4	10.8	10.8	10.8	10.8
135°	5.4	6.8	7.2	8.1	8.6	9.0	9.0	9.5	9.5	9.5	9.5
137.5°	4.5	5.4	6.3	7.2	7.7	7.7	8.1	8.1	8.6	8.6	8.6
140°	3.6	4.1	5.4	5.9	6.3	6.8	7.2	7.2	7.2	7.2	7.2
142.5°	2.7	3.6	4.1	5.0	5.4	5.9	6.3	6.3	6.3	6.3	6.3
145°	2.3	2.7	3.2	4.1	4.5	5.0	5.4	5.4	5.4	5.4	5.4
147.5°	1.8	2.3	2.7	3.2	3.6	4.1	4.5	4.5	4.5	4.5	4.5
150°	1.4	1.8	2.3	2.3	2.7	3.2	3.6	4.1	4.1	4.1	4.1
152.5°	1.4	1.4	1.8	1.8	2.3	2.7	3.2	3.2	3.2	3.2	3.2
155°	0.9	1.4	1.4	1.4	1.8	1.8	2.3	2.7	2.7	2.7	2.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	872.9	874.7	873.8	872.5	872.0	874.3	872.0	861.7	865.7	866.2	869.3
5°	871.6	872.9	872.0	871.1	869.8	872.5	869.8	858.9	863.0	863.5	866.6
7.5°	880.6	881.0	881.0	878.8	875.2	876.5	872.9	860.8	863.0	863.0	865.3
10°	903.1	904.0	905.4	899.5	895.0	891.4	886.5	871.6	871.1	867.5	867.5
12.5°	932.4	930.2	927.9	925.2	921.6	917.1	909.9	892.3	886.5	880.6	874.7
15°	941.0	940.1	939.7	938.3	936.1	934.7	929.3	911.7	903.1	895.9	885.6
17.5°	918.5	920.3	926.1	926.6	929.3	934.7	933.8	921.6	914.0	910.8	898.2
20°	877.9	878.3	885.6	888.7	900.4	909.4	916.2	914.9	913.1	916.7	907.2
22.5°	829.2	832.3	840.0	845.0	856.2	866.6	877.4	883.3	892.8	907.6	905.8
25°	762.9	767.0	777.8	785.9	801.7	817.5	831.9	842.3	853.5	881.9	891.4
27.5°	683.6	689.9	703.8	712.0	734.1	750.3	771.0	791.3	807.1	839.6	858.9
30°	600.1	605.5	620.4	631.7	650.6	672.7	698.9	727.7	753.9	786.8	811.2
32.5°	522.1	528.0	540.2	550.1	571.3	589.8	618.6	654.2	678.6	724.1	756.6
35°	454.0	459.5	468.0	476.6	494.2	513.1	537.9	572.6	603.7	651.1	692.1
37.5°	406.3	407.2	412.1	417.1	430.2	444.6	464.0	494.6	523.5	574.4	619.5
40°	372.0	372.0	374.7	376.0	381.9	390.5	402.6	426.5	450.4	489.2	544.2
42.5°	350.8	349.9	349.9	350.3	349.9	354.0	361.2	372.4	393.6	425.6	468.5
45°	335.0	333.2	331.9	328.7	326.9	326.9	327.3	331.4	343.6	364.3	399.0
47.5°	317.4	317.0	314.7	311.1	308.0	305.7	302.1	300.7	304.4	316.1	339.5
50°	297.1	294.9	292.6	289.9	286.3	284.1	277.3	277.7	274.6	280.0	292.2
52.5°	267.4	265.6	264.7	262.4	261.1	260.2	254.8	249.3	248.0	248.9	253.4
55°	234.5	235.4	231.8	233.6	233.1	229.1	226.8	222.7	221.4	220.9	223.2
57.5°	200.2	201.1	198.8	200.6	200.6	198.4	197.0	197.0	193.9	191.2	194.3
60°	169.1	167.3	168.6	170.9	170.9	169.5	168.6	168.6	166.4	165.5	167.7
62.5°	143.8	142.0	143.4	145.6	146.1	145.2	144.3	144.3	141.6	141.6	143.4
65°	124.4	124.9	124.4	126.2	126.2	126.7	125.8	124.9	121.7	123.1	122.6
67.5°	110.5	110.0	110.0	111.8	111.4	112.3	111.4	110.0	107.8	106.0	105.5
70°	98.7	98.3	98.3	99.2	99.6	99.6	99.2	98.3	95.1	93.3	92.0
72.5°	88.4	87.9	88.4	88.8	89.3	89.7	89.3	88.4	85.7	83.4	81.2
75°	78.9	78.5	79.8	79.8	80.3	80.3	80.7	80.3	78.0	75.3	72.6
77.5°	69.4	69.9	71.2	71.7	72.6	73.0	73.5	73.5	71.2	69.0	65.4
80°	61.8	62.7	63.6	64.0	64.9	66.3	66.7	67.2	65.4	63.1	59.1
82.5°	56.4	56.8	57.7	58.2	59.5	60.0	60.4	61.3	60.4	58.2	53.7
85°	51.9	52.3	53.2	53.2	54.1	55.0	55.5	55.9	55.5	53.2	48.7
87.5°	47.8	48.2	48.7	49.1	49.6	50.0	50.5	51.0	50.5	48.2	44.2
90°	44.2	44.2	44.6	44.6	45.1	45.5	46.4	46.4	46.0	44.2	40.1
92.5°	40.1	40.6	40.6	41.0	41.5	41.9	42.4	42.4	41.9	40.1	36.5
95°	37.4	37.4	37.9	37.9	38.3	38.3	38.8	38.8	38.3	36.5	32.9
97.5°	34.3	34.3	34.3	34.3	34.7	34.7	35.2	35.2	34.7	32.9	29.8
100°	31.6	31.6	31.6	31.6	31.6	32.0	32.0	32.0	31.6	29.8	26.6
102.5°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	28.4	27.1	23.9
105°	28.0	28.0	28.0	27.5	27.5	27.5	27.1	27.1	25.7	24.3	21.6
107.5°	26.2	26.2	26.2	25.7	25.7	25.2	24.8	24.8	23.4	22.1	19.4
110°	24.8	24.8	24.8	24.3	23.9	23.4	23.0	22.5	21.2	19.4	17.1



TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	23.4	23.4	23.0	23.0	22.5	22.1	21.2	20.7	19.4	17.6	15.3
115°	21.6	21.6	21.6	21.2	20.7	20.3	19.8	18.9	17.6	15.8	13.5
117.5°	19.8	19.8	19.8	19.4	18.9	18.5	18.0	17.1	15.8	14.0	12.2
120°	18.0	18.0	18.0	17.6	17.1	16.7	16.2	15.3	14.0	12.6	10.4
122.5°	16.7	16.7	16.2	15.8	15.3	14.9	14.4	13.5	12.6	10.8	9.0
125°	14.9	14.9	14.4	14.4	14.0	13.5	13.1	12.2	10.8	9.5	8.1
127.5°	13.5	13.1	13.1	13.1	12.6	12.2	11.3	10.8	9.5	8.1	6.8
130°	11.7	11.7	11.7	11.3	11.3	10.8	9.9	9.0	8.1	7.2	5.9
132.5°	10.4	10.4	10.4	10.4	9.9	9.5	8.6	8.1	7.2	5.9	5.0
135°	9.5	9.5	9.0	9.0	8.6	8.1	7.7	6.8	5.9	5.0	4.1
137.5°	8.1	8.1	8.1	7.7	7.7	7.2	6.3	5.9	5.4	4.5	3.6
140°	7.2	7.2	6.8	6.8	6.3	6.3	5.9	5.0	4.5	3.6	3.2
142.5°	6.3	6.3	5.9	5.9	5.4	5.4	5.0	4.5	3.6	3.2	2.3
145°	5.4	5.4	5.0	5.0	5.0	4.5	4.1	3.6	3.2	2.7	2.3
147.5°	4.5	4.5	4.5	4.1	4.1	3.6	3.6	3.2	2.7	2.3	1.8
150°	4.1	4.1	3.6	3.6	3.6	3.2	2.7	2.7	2.3	1.8	1.4
152.5°	3.2	3.2	3.2	3.2	2.7	2.7	2.3	2.3	1.8	1.4	1.4
155°	2.7	2.7	2.7	2.3	2.3	2.3	1.8	1.8	1.4	1.4	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213677

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	868.0	867.5	871.6	871.1	865.7	873.8	879.2
5°	865.7	865.3	868.9	869.8	863.9	872.5	878.3
7.5°	863.9	863.5	867.5	868.9	863.0	870.7	877.0
10°	864.4	862.1	865.7	866.6	861.2	869.3	874.7
12.5°	867.5	862.1	863.5	863.5	858.5	865.7	871.6
15°	875.2	863.9	862.1	860.8	854.4	861.2	867.1
17.5°	883.7	868.4	862.1	857.6	849.9	855.8	862.1
20°	892.3	873.4	863.0	855.8	845.4	850.8	855.3
22.5°	896.4	877.9	863.9	853.1	840.0	842.7	847.7
25°	891.0	876.1	862.1	849.0	833.2	833.7	837.8
27.5°	871.1	867.1	858.0	845.0	827.8	825.6	828.7
30°	837.3	848.6	849.0	839.6	821.5	817.0	818.4
32.5°	790.0	815.2	830.1	828.3	812.5	806.2	807.1
35°	735.4	767.0	799.4	810.3	799.0	794.0	792.2
37.5°	670.0	712.4	755.7	782.3	780.5	777.3	775.5
40°	597.9	648.8	700.2	742.6	755.7	755.7	756.6
42.5°	520.8	580.3	636.7	690.3	721.0	727.7	730.4
45°	446.4	506.4	567.7	629.4	670.5	691.7	699.3
47.5°	378.7	439.2	497.3	565.0	619.5	647.0	659.2
50°	321.0	366.1	427.4	494.6	554.1	588.0	611.9
52.5°	273.2	308.4	362.1	424.7	484.7	531.2	553.2
55°	233.1	257.0	302.5	356.7	413.9	462.2	487.9
57.5°	199.3	218.2	249.3	294.4	342.7	390.5	418.0
60°	169.5	182.6	203.8	239.4	280.5	321.5	348.1
62.5°	143.8	152.4	166.4	192.5	224.5	256.6	281.4
65°	124.0	127.6	135.3	151.5	175.8	200.2	221.4
67.5°	104.6	106.9	112.7	122.6	134.8	152.4	166.4
70°	90.2	90.2	90.6	96.5	102.8	114.1	124.0
72.5°	78.5	77.1	74.4	75.7	77.1	83.4	89.7
75°	69.0	65.8	61.3	59.5	58.6	59.5	63.1
77.5°	60.9	56.4	51.0	46.4	42.8	41.5	44.6
80°	54.1	48.7	42.4	36.5	30.7	27.5	28.9
82.5°	48.7	41.9	35.2	28.4	21.6	17.1	17.1
85°	42.8	36.5	29.3	22.1	15.3	9.5	8.6
87.5°	38.8	32.0	24.3	17.6	10.8	5.0	2.7
90°	34.7	28.0	20.7	14.0	7.7	2.3	0.0
92.5°	31.1	24.8	18.0	11.3	5.4	1.4	0.0
95°	28.0	22.1	15.3	9.5	4.5	0.9	0.5
97.5°	24.8	19.4	13.5	7.7	3.2	0.9	0.5
100°	22.5	17.1	11.7	6.3	2.7	0.5	0.5
102.5°	19.8	15.3	9.9	5.4	2.3	0.5	0.5
105°	17.6	13.5	8.6	4.5	1.8	0.5	0.5
107.5°	15.8	11.7	7.7	4.1	1.8	0.5	0.5
110°	14.0	10.4	6.8	3.6	1.4	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	12.6	9.0	5.9	3.2	0.9	0.5	0.5
115°	10.8	8.1	5.0	2.7	0.9	0.5	0.5
117.5°	9.5	6.8	4.5	2.3	0.9	0.5	0.5
120°	8.1	5.9	3.6	1.8	0.5	0.5	0.5
122.5°	7.2	5.0	3.2	1.8	0.5	0.5	0.5
125°	6.3	4.5	2.7	1.4	0.5	0.5	0.5
127.5°	5.4	3.6	2.3	0.9	0.5	0.5	0.5
130°	4.5	3.2	1.8	0.9	0.5	0.5	0.5
132.5°	3.6	2.7	1.8	0.9	0.5	0.5	0.5
135°	3.2	2.3	1.4	0.9	0.5	0.5	0.5
137.5°	2.7	1.8	0.9	0.9	0.9	0.5	0.5
140°	2.3	1.4	0.9	0.9	0.9	0.9	0.5
142.5°	1.8	1.4	0.9	0.9	0.9	0.9	0.5
145°	1.4	0.9	0.9	0.9	0.9	0.9	0.5
147.5°	1.4	0.9	0.9	0.9	0.9	0.9	0.5
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)