

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: P1213316

Luminaire Tested: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213316
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-LD5-18SL-LC-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

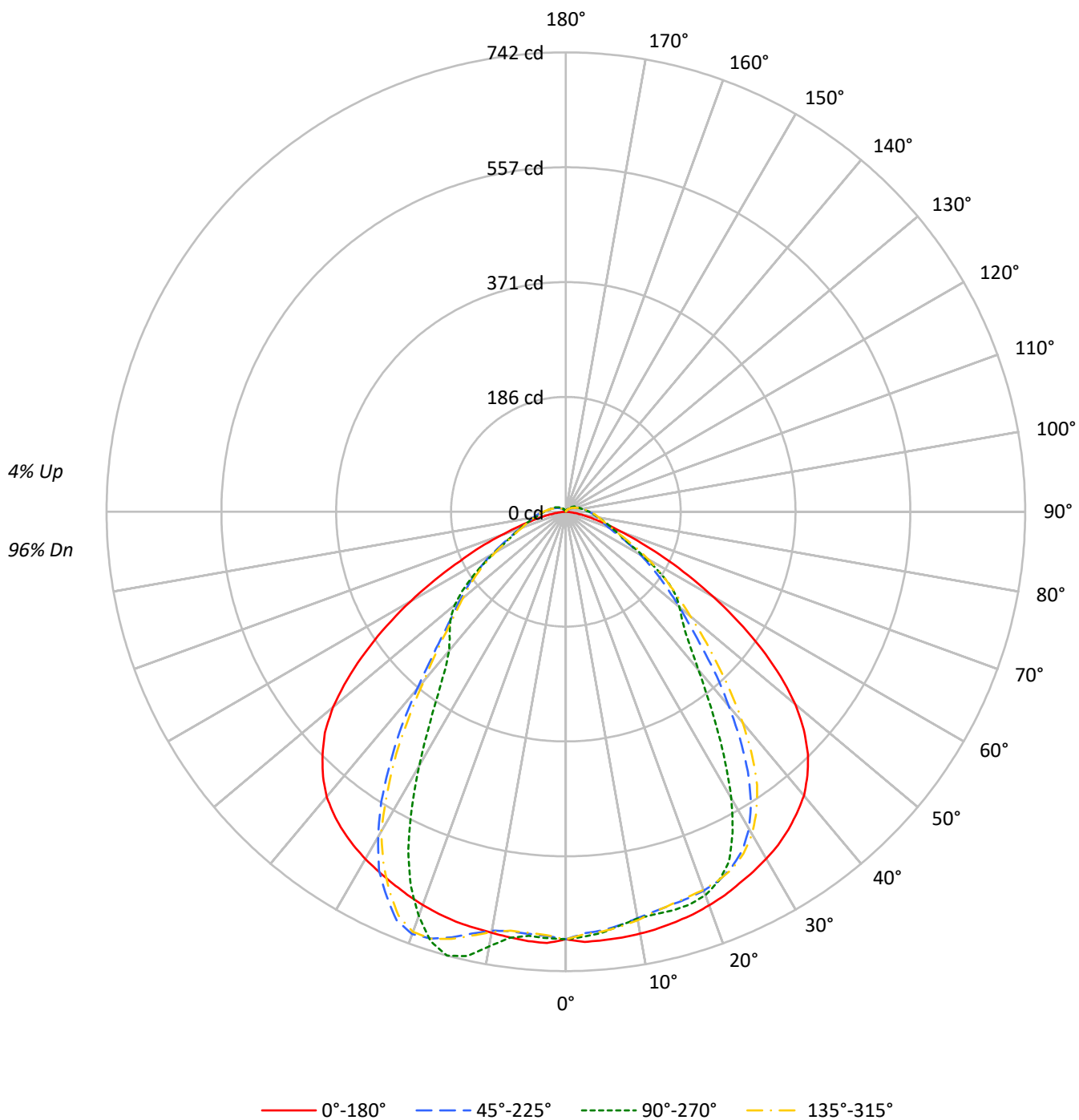
Lumens per Lamp: N/A
Luminaire Lumens: 1646.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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

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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°	11160	11160	11160	11160
5°	11209	10718	11234	10801
10°	11231	10271	11209	10969
15°	11286	10134	11281	11284
20°	11377	9973	11365	10512
25°	11481	9461	11476	9142
30°	11659	8200	11667	7264
35°	11845	6631	11879	5610
40°	11996	5338	12046	4704
45°	11898	4522	11961	4404
50°	11326	4164	11483	4070
55°	9983	3742	10231	3403
60°	8030	2864	8455	2627
65°	5905	2191	6363	2078
70°	3956	1891	4460	1808
75°	2527	1706	2942	1615
80°	1567	1591	1835	1464
85°	736	1588	963	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11961 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	4.0
10°-20°	195.1	11.9
20°-30°	296.7	18.0
30°-40°	318.3	19.3
40°-50°	276.2	16.8
50°-60°	204.7	12.4
60°-70°	117.3	7.1
70°-80°	64.9	3.9
80°-90°	39.5	2.4
90°-100°	25.7	1.6
100°-110°	17.2	1.0
110°-120°	11.6	0.7
120°-130°	7.1	0.4
130°-140°	3.8	0.2
140°-150°	1.7	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	557.4	33.9
0°-40°	875.6	53.2
0°-60°	1356.5	82.4
0°-90°	1578.3	95.9
90°-120°	54.6	3.3
90°-150°	67.2	4.1
90°-180°	68.0	4.1
0°-180°	1646.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	690	690	690	690	690	
5°	695	682	696	688	695	66
15°	686	667	686	742	686	194
25°	663	623	662	602	663	306
35°	627	424	628	359	627	392
45°	553	272	556	265	553	423
55°	386	204	396	186	386	342
65°	175	103	189	98	175	177
75°	50	66	58	62	50	57
85°	7	45	9	41	7	9
90°	0	38	1	35	0	0
95°	0	31	0	30	0	0
105°	0	23	0	22	0	0
115°	0	19	0	17	0	0
125°	0	14	0	12	0	0
135°	0	9	0	8	0	0
145°	0	5	1	4	0	0
155°	1	2	1	2	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	695.4	693.7	693.0	691.5	692.6	696.9	694.0	689.4	689.7	681.5	685.8
5°	694.7	692.6	691.5	690.1	690.8	694.7	691.9	687.2	686.9	678.7	682.6
7.5°	693.7	691.5	689.7	688.7	689.0	692.2	688.7	683.3	682.3	673.3	676.9
10°	691.9	690.5	688.0	686.2	685.8	689.4	683.7	678.3	675.8	666.6	670.1
12.5°	689.4	687.2	684.7	681.5	681.2	683.3	678.7	671.2	668.7	661.2	665.1
15°	685.8	683.3	680.5	676.9	675.1	676.5	670.8	664.1	663.7	657.3	662.6
17.5°	681.9	678.3	675.1	670.1	667.6	668.7	664.1	658.0	658.7	654.8	660.9
20°	676.5	672.6	667.6	662.6	659.1	660.9	657.6	653.0	654.1	651.2	656.6
22.5°	670.5	665.1	659.1	653.4	650.5	653.0	650.5	646.6	646.9	645.2	648.4
25°	662.6	656.6	649.4	642.3	640.9	642.7	641.2	638.0	636.6	633.7	635.2
27.5°	655.5	648.7	639.8	632.3	629.8	633.4	630.2	624.8	620.9	617.0	614.1
30°	647.3	639.1	629.1	620.6	618.4	619.8	615.2	607.0	596.7	591.7	583.8
32.5°	638.4	627.7	615.2	605.6	604.1	603.1	594.5	582.7	566.7	556.7	544.6
35°	626.6	614.8	599.9	588.1	586.0	579.9	566.0	550.3	529.6	512.5	491.8
37.5°	613.4	599.5	583.8	568.1	562.1	549.9	530.3	513.9	482.5	461.8	436.9
40°	598.4	581.7	562.4	543.5	533.5	513.9	491.5	467.2	436.9	409.1	388.0
42.5°	577.8	559.9	537.1	516.1	498.9	472.9	446.5	412.3	384.5	360.9	339.5
45°	553.1	531.8	505.4	480.0	458.3	427.3	396.2	362.0	338.8	311.3	296.7
47.5°	521.4	498.2	470.1	441.9	413.3	379.1	346.7	313.8	290.7	271.0	260.3
50°	484.0	462.6	431.5	398.0	366.6	331.0	298.5	273.9	251.4	239.3	231.1
52.5°	437.6	417.6	385.9	349.5	319.2	284.2	254.6	234.7	218.6	209.7	206.9
55°	385.9	368.4	337.0	303.1	272.1	240.0	217.6	200.1	189.7	184.4	184.7
57.5°	330.6	317.1	287.5	257.1	227.9	203.6	183.3	169.4	161.6	161.2	162.3
60°	275.3	265.3	239.7	213.6	187.9	168.3	153.4	143.7	138.7	139.1	138.7
62.5°	222.5	213.3	194.7	173.3	153.0	139.8	126.3	122.3	118.0	117.7	117.7
65°	175.1	168.0	153.0	137.7	122.3	113.8	107.0	102.4	99.1	98.4	98.8
67.5°	131.6	128.7	118.4	108.1	98.4	93.1	87.4	86.3	83.8	83.8	84.5
70°	98.1	95.9	90.2	84.2	80.2	76.7	73.8	73.8	73.5	73.1	74.9
72.5°	71.0	71.3	69.5	64.9	64.6	63.8	63.1	64.2	64.6	65.6	67.8
75°	49.9	51.0	51.0	50.3	51.7	53.5	54.6	56.3	58.5	59.9	62.4
77.5°	35.3	35.3	37.1	39.2	42.1	45.3	48.1	50.6	53.5	55.3	57.4
80°	22.8	23.9	26.7	30.7	34.6	38.9	42.8	46.0	48.9	51.7	53.1
82.5°	13.6	15.3	18.9	23.9	28.9	34.2	38.2	42.1	45.3	48.1	49.2
85°	6.8	9.3	13.6	18.9	24.3	30.0	35.0	38.5	42.1	44.6	46.0
87.5°	2.1	5.0	9.6	14.6	20.3	26.0	31.4	35.3	38.5	40.7	42.1
90°	0.0	2.5	6.8	12.1	17.5	23.2	28.2	32.5	35.7	37.4	38.5
92.5°	0.0	1.4	5.3	10.0	15.0	20.7	25.7	29.6	32.5	34.2	35.0
95°	0.4	1.1	3.9	8.2	13.2	18.5	23.2	26.7	29.6	31.4	31.7
97.5°	0.4	0.7	3.2	6.8	11.4	16.4	21.0	24.6	26.7	28.5	28.9
100°	0.4	0.7	2.5	6.1	10.0	14.6	18.9	22.1	24.6	26.0	26.4
102.5°	0.4	0.4	2.1	5.0	8.9	12.8	16.8	20.0	22.1	23.5	24.3
105°	0.4	0.4	1.8	4.3	7.8	11.4	15.0	18.2	20.0	21.4	22.1
107.5°	0.4	0.4	1.4	3.6	6.8	10.0	13.6	16.0	18.2	19.6	20.3
110°	0.4	0.4	1.1	3.2	5.7	8.9	11.8	14.3	16.4	17.8	18.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.4	1.1	2.9	5.0	7.8	10.3	12.8	14.6	16.0	17.1
115°	0.4	0.4	1.1	2.5	4.6	6.8	9.3	11.4	13.2	14.6	15.7
117.5°	0.4	0.4	1.1	2.1	3.9	6.1	8.2	10.3	11.8	13.2	14.3
120°	0.4	0.4	0.7	1.8	3.6	5.3	7.1	8.9	10.7	12.1	13.2
122.5°	0.4	0.4	0.7	1.8	2.9	4.6	6.4	7.8	9.6	10.7	11.8
125°	0.4	0.4	0.7	1.4	2.5	4.3	5.7	7.1	8.2	9.6	10.7
127.5°	0.4	0.4	0.7	1.4	2.1	3.6	5.0	6.4	7.5	8.6	9.3
130°	0.4	0.4	0.7	1.1	1.8	2.9	4.3	5.3	6.8	7.5	8.2
132.5°	0.4	0.4	0.4	1.1	1.4	2.1	3.2	4.6	5.7	6.8	7.1
135°	0.4	0.4	0.4	0.7	1.4	1.8	2.5	3.6	4.6	5.7	6.4
137.5°	0.4	0.4	0.4	0.7	1.1	1.8	2.1	2.9	3.9	4.6	5.7
140°	0.4	0.4	0.4	0.7	1.1	1.4	1.8	2.5	3.2	3.9	4.6
142.5°	0.4	0.4	0.4	0.7	0.7	1.1	1.4	2.1	2.5	3.2	3.9
145°	0.4	0.4	0.4	0.7	0.7	1.1	1.4	1.8	2.1	2.5	3.2
147.5°	0.4	0.4	0.4	0.7	0.7	0.7	1.1	1.4	1.8	2.1	2.5
150°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.4	1.8	2.1
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.4	1.8
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.4	1.4
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°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	684.4	685.1	689.4	689.0	688.3	687.6	687.6	686.9	687.6	689.4	688.7
5°	680.8	681.9	685.1	684.7	684.0	683.7	683.3	682.3	683.0	685.5	684.7
7.5°	674.4	675.5	678.3	676.9	675.8	676.5	674.8	673.7	675.1	677.6	677.3
10°	667.6	668.3	671.9	671.2	669.4	669.8	668.0	667.3	669.1	670.5	670.8
12.5°	663.0	665.5	668.7	668.3	668.0	668.3	666.6	665.8	666.9	668.3	668.0
15°	661.9	665.1	668.7	668.7	669.1	669.4	667.6	666.6	667.6	668.7	668.3
17.5°	660.9	664.8	668.0	667.6	668.0	668.7	665.8	665.1	666.6	668.0	667.3
20°	657.3	660.9	663.0	662.3	662.3	662.6	659.1	659.1	661.2	662.3	662.6
22.5°	647.3	651.6	651.6	649.8	649.8	648.4	647.3	645.2	647.7	649.4	650.9
25°	632.3	634.1	632.0	628.0	625.9	624.1	619.1	623.4	623.4	628.8	630.5
27.5°	611.3	607.4	601.3	593.1	591.3	585.6	582.4	583.5	585.2	592.7	598.4
30°	576.7	564.9	554.6	551.0	543.2	537.5	531.8	534.6	537.8	542.1	553.9
32.5°	531.0	519.6	502.9	496.8	488.6	481.5	474.7	479.0	484.7	487.5	500.4
35°	478.6	465.1	449.7	439.4	430.8	426.9	418.3	424.4	430.5	432.6	443.7
37.5°	423.0	409.1	395.5	386.6	378.4	375.9	370.2	374.5	379.1	382.3	391.6
40°	370.2	357.4	347.0	340.9	335.2	333.1	331.0	332.7	336.3	338.8	345.9
42.5°	324.9	314.6	307.4	303.9	299.9	297.1	297.4	298.2	299.9	305.3	308.5
45°	285.3	279.2	274.6	273.9	271.4	271.0	270.7	272.1	273.2	276.4	278.9
47.5°	253.6	251.1	250.0	251.4	252.5	251.1	251.8	253.6	255.7	255.7	255.4
50°	228.6	229.3	230.7	234.0	236.1	236.8	237.5	239.7	240.0	240.7	239.7
52.5°	208.3	209.0	212.9	217.9	220.4	221.5	222.9	225.0	225.0	225.8	224.3
55°	187.6	188.7	192.6	197.6	199.7	201.1	202.6	204.0	205.1	206.5	205.4
57.5°	164.8	168.0	170.5	171.9	173.3	174.4	175.5	175.8	178.0	178.3	180.1
60°	140.5	141.2	143.7	143.4	142.3	145.2	143.7	146.2	148.7	151.9	152.3
62.5°	117.3	117.7	119.5	118.8	120.2	119.8	120.9	120.9	122.7	124.1	125.9
65°	99.1	99.5	100.9	100.9	100.6	101.6	102.7	103.4	103.4	104.5	105.9
67.5°	85.6	86.7	88.1	88.8	89.5	89.5	90.6	90.9	91.7	92.0	92.7
70°	76.3	77.7	79.2	79.9	80.2	81.0	81.3	81.3	82.0	82.4	83.1
72.5°	69.5	71.0	72.0	72.0	72.8	73.1	73.1	73.5	73.8	74.5	75.3
75°	63.8	64.9	65.6	65.3	65.3	65.3	65.6	65.6	66.3	67.0	67.8
77.5°	58.5	59.6	59.6	58.8	58.8	58.8	58.8	59.2	59.6	60.3	61.0
80°	54.6	54.6	54.2	54.2	53.5	53.1	53.1	53.5	53.5	54.2	55.3
82.5°	50.3	50.3	49.9	49.6	49.2	48.9	48.9	49.2	49.6	49.9	50.6
85°	46.4	46.4	45.6	45.6	45.3	45.3	45.3	45.3	45.6	46.0	46.7
87.5°	42.4	42.1	41.7	41.4	41.4	41.4	41.4	41.4	41.7	42.4	42.8
90°	38.5	38.2	37.8	37.8	37.4	37.4	37.8	37.8	38.2	38.5	38.9
92.5°	35.0	34.6	34.2	34.2	33.9	33.9	34.2	33.9	34.6	34.6	35.0
95°	31.7	31.4	31.0	31.0	31.0	31.0	31.0	31.0	31.4	31.4	31.7
97.5°	28.9	28.5	28.2	28.2	28.5	28.2	28.5	28.5	28.5	28.9	29.2
100°	26.4	26.0	26.0	26.4	26.0	26.0	26.4	26.4	26.4	26.4	26.7
102.5°	24.3	24.3	24.3	24.3	24.3	24.3	24.6	24.6	24.6	24.6	25.0
105°	22.1	22.5	22.5	22.5	22.8	22.8	22.8	23.2	23.2	23.2	23.2
107.5°	20.7	21.0	21.0	21.4	21.4	21.8	21.8	21.8	21.8	22.1	22.1
110°	19.3	19.6	20.0	20.3	20.3	20.7	20.7	20.7	20.7	20.7	20.7

TEST NUMBER: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	17.8	18.2	18.5	19.3	19.6	19.6	19.6	19.6	20.0	20.0	19.6
115°	16.4	17.1	17.5	18.2	18.5	18.5	18.9	18.9	18.9	18.9	18.5
117.5°	15.0	16.0	16.4	17.1	17.5	17.5	17.8	17.8	17.8	17.8	17.5
120°	13.9	14.6	15.3	15.7	16.0	16.4	16.4	16.8	16.8	16.8	16.4
122.5°	12.8	13.6	14.3	14.6	15.0	15.3	15.3	15.3	15.3	15.3	15.3
125°	11.4	12.1	12.8	13.2	13.6	13.9	13.9	14.3	14.3	14.3	13.9
127.5°	10.3	11.1	11.4	12.1	12.5	12.5	12.8	12.8	12.8	12.8	12.5
130°	8.9	9.6	10.3	10.7	11.1	11.1	11.4	11.4	11.4	11.4	11.4
132.5°	7.8	8.6	8.9	9.6	9.6	10.0	10.0	10.3	10.3	10.3	10.0
135°	7.1	7.5	7.8	8.6	8.6	8.9	8.9	8.9	8.9	8.9	8.9
137.5°	6.4	6.8	7.1	7.5	7.5	7.8	7.8	7.8	7.8	8.2	7.8
140°	5.3	6.1	6.4	6.4	6.8	6.8	6.8	7.1	7.1	7.1	6.8
142.5°	4.6	5.0	5.3	5.7	6.1	6.1	6.1	6.1	6.4	6.1	6.1
145°	3.6	4.3	4.6	5.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
147.5°	2.9	3.2	3.9	4.3	4.3	4.6	4.6	4.6	4.6	4.6	4.6
150°	2.5	2.5	3.2	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
152.5°	1.8	2.1	2.5	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2
155°	1.8	1.8	2.1	2.1	2.5	2.5	2.5	2.5	2.9	2.5	2.5
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: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	687.6	687.2	688.7	687.2	680.1	683.0	681.9	685.8	686.2	687.2	690.8
5°	684.0	684.0	685.8	684.4	677.6	680.5	680.1	684.0	684.7	685.5	689.4
7.5°	676.9	677.3	679.8	678.7	671.6	675.8	675.5	680.1	681.5	683.0	686.5
10°	670.1	669.8	672.6	671.6	664.8	669.8	669.4	674.0	676.2	678.7	683.0
12.5°	666.6	665.5	666.6	665.5	658.0	661.9	662.3	667.6	670.1	673.3	678.3
15°	666.6	664.8	664.8	662.6	654.1	656.6	656.9	660.5	663.7	666.9	673.0
17.5°	665.8	664.1	663.7	661.9	652.7	652.7	652.3	654.8	656.6	659.8	666.2
20°	661.9	661.2	660.9	659.8	651.2	649.8	649.1	649.1	650.2	651.2	657.6
22.5°	651.6	652.3	653.0	653.7	646.9	644.4	644.8	644.1	643.0	643.0	648.4
25°	632.3	635.9	638.7	642.0	638.0	636.2	638.4	637.3	635.5	634.1	638.7
27.5°	601.7	609.1	615.2	623.1	623.4	622.0	627.7	627.0	626.6	624.5	628.0
30°	559.2	571.0	579.2	590.6	600.2	601.7	611.3	612.7	614.1	613.1	616.6
32.5°	507.9	523.9	537.8	555.6	564.9	573.1	586.7	592.4	598.1	599.9	603.8
35°	451.9	470.1	486.5	506.1	520.7	538.5	554.9	563.5	576.3	581.3	587.0
37.5°	398.7	415.8	431.9	451.5	475.0	493.6	513.9	533.2	550.7	557.8	566.3
40°	351.6	365.6	380.9	398.0	419.4	443.7	465.8	492.5	513.2	527.5	540.0
42.5°	316.0	322.8	336.0	351.3	368.4	393.0	415.5	445.4	470.4	490.7	511.4
45°	284.2	287.5	297.1	305.3	322.8	344.5	368.4	397.7	423.7	449.7	474.7
47.5°	257.1	261.1	265.7	270.7	283.2	301.4	322.0	348.4	374.5	404.8	433.3
50°	238.9	240.0	240.7	242.9	250.4	262.8	279.6	302.1	327.0	359.5	389.8
52.5°	222.9	222.9	220.8	219.7	222.5	230.4	240.0	256.1	281.7	311.7	343.8
55°	205.8	202.6	201.9	198.3	199.0	202.6	207.2	219.7	240.7	266.4	297.4
57.5°	181.9	180.5	180.5	179.0	176.2	178.0	179.0	187.9	202.9	225.0	252.1
60°	154.4	153.7	155.5	155.9	153.4	154.4	154.1	159.4	170.1	187.9	210.4
62.5°	127.0	130.2	130.5	132.0	130.5	130.2	132.0	136.6	141.9	155.5	173.0
65°	106.6	108.4	108.8	110.6	109.8	109.8	111.3	114.8	118.0	127.3	140.9
67.5°	93.4	92.7	93.1	94.2	93.1	92.7	93.8	95.9	98.4	104.1	113.8
70°	83.1	82.4	82.4	82.4	81.0	79.9	80.2	81.0	82.0	85.2	91.3
72.5°	75.3	75.3	74.2	73.1	72.0	71.3	70.6	69.9	69.5	70.6	73.8
75°	68.1	68.5	68.1	67.0	65.6	64.2	62.8	61.3	59.6	58.8	59.2
77.5°	61.7	62.1	62.4	62.1	60.6	58.8	56.7	54.6	52.1	49.6	48.1
80°	56.0	56.7	57.1	56.7	55.6	54.2	51.7	49.2	45.6	42.4	38.9
82.5°	51.0	52.1	52.4	52.4	51.7	50.3	47.4	44.6	40.7	36.4	31.7
85°	47.1	47.8	48.5	48.5	48.1	46.7	43.9	40.7	36.7	31.7	26.7
87.5°	43.2	43.5	44.2	44.9	44.2	42.8	40.3	36.7	32.8	27.8	22.1
90°	39.2	39.6	40.3	41.0	40.7	39.2	37.1	33.9	29.6	24.3	18.5
92.5°	35.3	36.0	36.4	36.7	37.1	36.0	34.2	31.0	26.7	21.4	16.0
95°	32.5	32.5	33.2	33.5	33.9	32.8	31.4	28.2	24.3	19.3	13.9
97.5°	29.6	29.6	30.3	30.3	30.7	30.0	28.5	25.7	21.8	17.1	11.8
100°	26.7	27.1	27.5	27.8	27.8	27.5	26.0	23.2	19.6	15.3	10.3
102.5°	25.0	25.0	25.3	25.3	25.7	25.0	23.5	21.0	17.5	13.6	8.9
105°	23.2	23.2	23.5	23.5	23.2	22.5	21.0	18.9	15.7	11.8	7.8
107.5°	21.8	21.8	21.8	21.8	21.4	20.7	19.3	16.8	13.9	10.7	7.1
110°	20.7	20.3	20.3	20.0	19.6	18.5	17.1	15.0	12.5	9.3	6.1

TEST NUMBER: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	19.6	19.3	18.9	18.5	17.8	16.8	15.3	13.6	11.1	8.2	5.3
115°	18.5	18.2	17.8	17.1	16.4	15.3	13.9	12.1	9.6	7.1	4.6
117.5°	17.5	17.1	16.4	15.7	15.0	13.9	12.5	10.7	8.6	6.4	4.3
120°	16.0	15.7	15.3	14.6	13.9	12.5	11.1	9.6	7.5	5.7	3.6
122.5°	15.0	14.6	13.9	13.6	12.5	11.4	10.0	8.6	6.8	5.0	3.2
125°	13.6	13.2	12.8	12.1	11.4	10.0	8.9	7.5	6.1	4.3	2.5
127.5°	12.5	12.1	11.4	10.7	10.0	8.9	7.8	6.8	5.3	3.6	2.5
130°	11.1	10.7	10.3	9.6	8.9	7.8	7.1	5.7	4.6	3.2	2.1
132.5°	9.6	9.6	9.3	8.6	7.8	7.1	6.1	5.0	3.9	2.9	1.8
135°	8.9	8.6	8.2	7.5	7.1	6.1	5.3	4.3	3.2	2.5	1.4
137.5°	7.8	7.5	7.1	6.8	6.1	5.3	4.6	3.6	2.9	2.1	1.4
140°	6.8	6.4	6.4	5.7	5.3	4.6	3.9	3.2	2.5	1.8	1.1
142.5°	6.1	5.7	5.3	5.0	4.6	3.9	3.2	2.5	2.1	1.4	1.1
145°	5.3	5.0	4.6	4.3	3.9	3.2	2.9	2.1	1.8	1.4	1.1
147.5°	4.3	4.3	3.9	3.6	3.2	2.9	2.5	2.1	1.4	1.1	0.7
150°	3.6	3.6	3.2	2.9	2.9	2.5	2.1	1.8	1.4	1.1	0.7
152.5°	3.2	2.9	2.9	2.5	2.5	2.1	1.8	1.4	1.1	1.1	0.7
155°	2.5	2.5	2.5	2.1	2.1	1.8	1.4	1.4	1.1	0.7	0.7
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: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	691.5	687.2	690.8	697.2	696.5	695.8	695.1	696.5	701.2	698.7	694.7
5°	690.5	686.2	690.1	696.2	695.8	694.7	694.0	695.4	700.1	697.6	693.3
7.5°	688.3	684.4	687.2	693.3	693.3	692.6	691.9	693.3	697.6	695.4	691.2
10°	684.7	681.9	684.7	690.5	690.8	689.4	688.7	690.5	694.7	693.7	690.1
12.5°	681.9	679.0	682.3	688.0	688.3	686.9	685.8	688.0	693.7	694.4	693.3
15°	678.0	675.5	679.4	685.5	685.5	684.4	684.4	687.2	695.1	698.3	700.1
17.5°	672.3	670.5	675.1	681.2	681.5	680.8	681.2	686.9	697.2	705.1	710.1
20°	665.1	664.4	669.4	675.8	676.9	677.3	679.0	687.6	701.9	712.6	717.6
22.5°	656.6	656.9	662.6	669.4	670.8	671.9	675.5	687.6	705.4	716.8	719.0
25°	646.9	648.0	654.1	662.3	664.1	666.2	672.3	688.0	706.5	714.0	710.4
27.5°	636.6	638.7	646.6	655.1	657.3	660.9	668.7	685.8	701.5	701.9	688.7
30°	625.9	628.4	637.7	647.7	651.2	654.8	664.4	680.8	689.4	678.0	654.8
32.5°	613.8	617.3	626.6	638.7	643.0	647.7	657.3	671.2	668.0	643.4	610.2
35°	598.4	603.4	614.1	628.4	632.3	638.4	645.2	648.4	634.1	599.2	561.7
37.5°	579.5	587.0	599.5	615.9	620.2	624.1	625.9	617.0	588.5	550.7	511.8
40°	557.8	569.2	582.7	600.9	605.2	605.2	598.8	579.9	543.9	494.3	451.1
42.5°	531.4	545.3	562.4	580.6	584.9	579.9	564.6	531.4	490.4	435.1	389.5
45°	499.3	517.8	537.1	556.0	558.1	547.1	519.6	477.5	426.9	375.5	332.0
47.5°	461.1	485.4	506.4	527.8	525.0	506.4	469.7	421.9	368.4	319.9	285.0
50°	418.3	446.9	470.4	490.7	484.7	459.0	415.8	365.9	312.8	271.4	242.5
52.5°	372.7	405.5	429.0	445.4	437.2	406.6	359.1	311.3	267.8	230.0	210.8
55°	325.3	358.4	382.7	395.5	384.8	351.6	304.9	261.4	220.4	195.8	184.4
57.5°	279.2	310.3	333.1	343.4	329.9	296.7	253.6	216.8	187.2	166.6	160.8
60°	235.0	260.3	282.1	289.9	275.3	244.7	207.6	178.3	156.6	142.3	139.4
62.5°	194.0	214.7	231.8	237.9	223.6	199.7	167.6	145.9	130.5	123.4	119.8
65°	160.1	172.3	189.7	188.7	180.1	158.0	134.5	119.1	109.1	104.5	102.4
67.5°	125.9	136.9	148.0	149.4	138.7	123.4	108.1	97.0	91.7	89.2	88.1
70°	97.4	105.6	112.3	110.6	104.9	95.2	85.6	79.5	77.4	76.3	76.3
72.5°	75.6	79.9	83.1	81.0	77.4	72.4	67.8	65.3	65.6	66.3	67.0
75°	58.5	59.6	60.3	58.1	57.4	54.2	53.9	54.2	56.3	58.5	59.6
77.5°	44.9	43.5	42.4	40.3	40.7	40.3	42.1	44.9	48.1	51.4	54.2
80°	34.6	31.4	28.9	26.7	27.8	29.6	33.2	37.4	41.7	45.3	48.9
82.5°	26.7	22.1	18.5	16.4	18.5	21.4	26.0	31.4	36.4	40.3	44.2
85°	20.7	15.3	11.1	8.9	11.1	15.3	20.3	26.4	31.7	36.0	39.9
87.5°	16.0	11.1	6.1	3.6	6.1	10.7	16.4	22.1	27.5	32.5	36.4
90°	12.8	7.5	2.9	0.7	3.2	7.5	12.8	18.5	23.9	29.2	33.2
92.5°	10.3	5.3	1.4	0.0	1.8	5.7	10.7	16.0	21.4	26.4	30.3
95°	8.6	4.3	1.1	0.0	1.4	4.3	8.6	13.9	18.9	23.9	27.1
97.5°	7.1	3.2	0.7	0.0	0.7	3.6	7.1	11.8	16.8	21.4	24.6
100°	6.1	2.9	0.7	0.0	0.7	2.9	6.1	10.3	14.6	18.9	22.1
102.5°	5.0	2.1	0.4	0.4	0.4	2.1	5.3	8.9	12.8	16.8	20.0
105°	4.6	1.8	0.4	0.4	0.4	1.8	4.6	7.8	11.4	15.0	17.8
107.5°	3.9	1.4	0.4	0.4	0.4	1.4	3.9	6.8	10.3	13.6	16.0
110°	3.2	1.4	0.4	0.4	0.4	1.4	3.2	6.1	8.9	11.8	14.3



TEST NUMBER: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	2.9	1.1	0.4	0.4	0.4	1.1	2.9	5.3	7.8	10.7	12.8
115°	2.5	1.1	0.4	0.4	0.4	1.1	2.5	4.6	6.8	9.3	11.4
117.5°	2.1	1.1	0.4	0.4	0.4	0.7	2.1	3.9	6.1	8.2	10.3
120°	1.8	0.7	0.4	0.4	0.4	0.7	1.8	3.6	5.3	7.1	8.9
122.5°	1.8	0.7	0.4	0.4	0.4	0.7	1.4	2.9	4.6	6.1	7.8
125°	1.4	0.7	0.4	0.4	0.4	0.4	1.4	2.5	3.9	5.3	6.8
127.5°	1.4	0.7	0.4	0.4	0.4	0.4	1.1	2.1	3.2	4.6	6.1
130°	1.1	0.7	0.4	0.4	0.4	0.4	0.7	1.8	2.9	3.9	5.0
132.5°	1.1	0.7	0.4	0.4	0.4	0.4	0.7	1.4	2.1	3.2	4.3
135°	1.1	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.8	2.5	3.2
137.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.4	1.8	2.9
140°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.4	2.1
142.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.8
145°	0.7	0.4	0.4	0.7	0.7	0.4	0.4	0.7	0.7	1.1	1.4
147.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	694.0	685.8	690.1	688.7	690.1	693.7	693.3	692.2	693.0	691.2	689.4
5°	692.6	684.4	688.7	686.9	688.7	692.2	691.5	690.5	691.5	689.4	687.6
7.5°	690.8	683.3	688.3	688.0	691.2	695.8	696.2	696.2	698.7	695.4	694.0
10°	690.8	686.9	693.7	696.2	704.4	710.4	711.1	712.6	716.8	716.1	712.6
12.5°	698.3	697.6	707.6	713.6	721.1	729.7	734.3	735.7	738.6	736.5	735.0
15°	707.9	711.5	722.6	729.3	737.5	744.0	745.0	745.7	747.9	744.7	742.2
17.5°	720.8	722.9	731.8	734.7	740.0	741.1	739.7	736.1	736.1	729.0	726.8
20°	726.8	725.8	729.3	724.7	722.6	716.1	710.1	703.3	702.9	695.4	694.7
22.5°	721.5	714.4	706.9	695.4	690.5	681.2	673.0	669.1	666.6	656.9	654.4
25°	702.6	685.1	674.0	660.5	648.4	637.7	629.8	621.6	613.8	605.9	602.4
27.5°	669.8	653.4	635.5	616.6	599.9	583.5	570.3	562.1	554.6	544.2	538.9
30°	629.5	606.6	587.0	568.8	541.4	521.4	510.4	493.9	488.2	483.6	473.6
32.5°	582.0	554.6	527.8	503.2	475.0	456.5	441.9	429.8	426.2	414.1	411.2
35°	529.6	493.6	463.3	439.0	418.7	396.2	384.1	375.9	368.8	360.6	359.1
37.5°	467.9	435.5	401.2	379.8	363.8	344.5	335.2	329.5	326.3	320.3	319.2
40°	405.9	373.4	349.9	328.5	318.5	308.1	301.4	298.9	297.4	295.3	293.2
42.5°	349.5	321.0	304.2	289.9	285.7	280.7	278.9	280.3	278.9	278.2	277.8
45°	301.7	280.0	268.2	263.9	262.8	261.4	262.8	265.3	265.7	265.0	265.0
47.5°	258.2	247.9	242.9	243.6	245.4	246.4	248.9	252.1	252.9	251.1	251.8
50°	229.7	223.6	222.5	225.4	229.3	230.7	233.6	236.1	235.7	235.0	234.3
52.5°	202.9	201.1	204.0	206.9	211.1	211.8	212.9	214.0	213.6	212.2	211.5
55°	180.5	181.9	184.4	185.5	188.7	188.3	188.7	188.7	187.2	186.5	185.5
57.5°	160.1	160.5	161.9	162.3	164.1	163.3	163.0	162.3	160.1	159.8	158.7
60°	139.4	138.7	141.9	139.4	140.9	139.4	139.1	137.3	135.2	134.8	134.1
62.5°	119.8	118.4	120.5	119.5	120.2	118.8	118.0	115.9	114.1	113.8	113.4
65°	102.4	101.6	103.8	103.4	104.1	102.4	101.6	100.2	98.8	98.4	98.1
67.5°	87.7	89.5	90.6	90.6	91.3	90.9	89.2	88.8	88.4	87.0	87.0
70°	77.0	78.1	80.2	80.6	80.2	81.0	79.5	79.2	78.8	78.1	77.7
72.5°	68.5	69.9	72.0	72.4	72.0	72.0	71.3	71.0	71.0	69.9	69.9
75°	61.7	63.5	65.3	65.3	65.3	64.6	63.8	63.8	63.1	62.8	62.1
77.5°	56.0	58.1	59.6	59.2	58.8	58.1	58.1	57.1	56.0	56.0	55.3
80°	51.7	53.1	54.2	53.9	53.5	52.4	52.1	51.0	50.3	49.2	49.2
82.5°	47.1	48.9	49.6	49.2	48.5	47.4	47.1	46.4	45.6	45.3	44.6
85°	43.2	44.9	45.3	44.6	43.9	43.2	42.8	42.4	42.1	41.4	41.4
87.5°	39.2	41.0	41.0	40.7	39.9	39.6	39.2	38.9	38.5	38.2	37.8
90°	36.0	37.4	37.4	37.1	36.7	36.4	36.0	35.7	35.3	35.0	35.0
92.5°	32.8	34.2	34.2	33.9	33.5	33.2	33.2	32.8	32.5	32.1	31.7
95°	30.0	31.4	31.4	31.4	31.0	30.7	30.7	30.3	30.0	30.0	29.6
97.5°	27.1	28.5	28.5	28.5	28.2	27.8	27.8	27.5	27.5	27.5	27.1
100°	24.6	25.7	26.0	26.0	25.7	25.7	25.7	25.3	25.3	25.3	25.0
102.5°	22.1	23.2	23.9	23.9	23.9	23.5	23.5	23.5	23.5	23.5	23.2
105°	20.0	21.0	21.8	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
107.5°	18.2	19.3	20.0	20.3	20.7	20.7	21.0	21.0	21.0	21.0	21.0
110°	16.4	17.5	18.5	18.9	19.3	19.6	19.6	20.0	19.6	19.6	19.6

TEST NUMBER: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	14.6	16.0	16.8	17.5	17.8	18.2	18.5	18.5	18.5	18.5	18.5
115°	13.2	14.6	15.3	16.0	16.8	17.1	17.1	17.5	17.5	17.5	17.1
117.5°	11.8	13.2	13.9	14.6	15.0	15.7	16.0	16.0	16.0	16.0	15.7
120°	10.7	11.8	12.5	13.2	13.9	14.3	14.6	14.6	14.6	14.6	14.6
122.5°	9.3	10.3	11.4	12.1	12.5	12.8	13.2	13.2	13.2	13.2	13.2
125°	8.2	9.3	10.0	10.7	11.1	11.8	11.8	11.8	11.8	11.8	11.8
127.5°	7.1	8.2	8.9	9.6	10.0	10.3	10.7	10.7	10.7	10.7	10.7
130°	6.1	7.1	7.8	8.6	8.9	9.3	9.3	9.6	9.6	9.6	9.6
132.5°	5.3	6.1	6.8	7.5	7.8	8.2	8.2	8.6	8.6	8.6	8.6
135°	4.3	5.3	5.7	6.4	6.8	7.1	7.1	7.5	7.5	7.5	7.5
137.5°	3.6	4.3	5.0	5.7	6.1	6.1	6.4	6.4	6.8	6.8	6.8
140°	2.9	3.2	4.3	4.6	5.0	5.3	5.7	5.7	5.7	5.7	5.7
142.5°	2.1	2.9	3.2	3.9	4.3	4.6	5.0	5.0	5.0	5.0	5.0
145°	1.8	2.1	2.5	3.2	3.6	3.9	4.3	4.3	4.3	4.3	4.3
147.5°	1.4	1.8	2.1	2.5	2.9	3.2	3.6	3.6	3.6	3.6	3.6
150°	1.1	1.4	1.8	1.8	2.1	2.5	2.9	3.2	3.2	3.2	3.2
152.5°	1.1	1.1	1.4	1.4	1.8	2.1	2.5	2.5	2.5	2.5	2.5
155°	0.7	1.1	1.1	1.1	1.4	1.4	1.8	2.1	2.1	2.1	2.1
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: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	690.5	691.9	691.2	690.1	689.7	691.5	689.7	681.5	684.7	685.1	687.6
5°	689.4	690.5	689.7	689.0	688.0	690.1	688.0	679.4	682.6	683.0	685.5
7.5°	696.5	696.9	696.9	695.1	692.2	693.3	690.5	680.8	682.6	682.6	684.4
10°	714.4	715.1	716.1	711.5	707.9	705.1	701.2	689.4	689.0	686.2	686.2
12.5°	737.5	735.7	734.0	731.8	729.0	725.4	719.7	705.8	701.2	696.5	691.9
15°	744.3	743.6	743.2	742.2	740.4	739.3	735.0	721.1	714.4	708.6	700.4
17.5°	726.5	727.9	732.5	732.9	735.0	739.3	738.6	729.0	722.9	720.4	710.4
20°	694.4	694.7	700.4	702.9	712.2	719.3	724.7	723.6	722.2	725.0	717.6
22.5°	655.9	658.4	664.4	668.3	677.3	685.5	694.0	698.7	706.1	717.9	716.5
25°	603.4	606.6	615.2	621.6	634.1	646.6	658.0	666.2	675.1	697.6	705.1
27.5°	540.7	545.7	556.7	563.1	580.6	593.4	609.9	625.9	638.4	664.1	679.4
30°	474.7	479.0	490.7	499.7	514.6	532.1	552.8	575.6	596.3	622.3	641.6
32.5°	413.0	417.6	427.3	435.1	451.9	466.5	489.3	517.5	536.7	572.8	598.4
35°	359.1	363.4	370.2	377.0	390.9	405.9	425.5	452.9	477.5	515.0	547.4
37.5°	321.3	322.0	326.0	329.9	340.2	351.6	367.0	391.2	414.1	454.4	490.0
40°	294.2	294.2	296.4	297.4	302.1	308.9	318.5	337.4	356.3	387.0	430.5
42.5°	277.5	276.8	276.8	277.1	276.8	280.0	285.7	294.6	311.3	336.7	370.5
45°	265.0	263.6	262.5	260.0	258.6	258.6	258.9	262.1	271.8	288.2	315.6
47.5°	251.1	250.7	248.9	246.1	243.6	241.8	238.9	237.9	240.7	250.0	268.6
50°	235.0	233.2	231.5	229.3	226.5	224.7	219.3	219.7	217.2	221.5	231.1
52.5°	211.5	210.1	209.3	207.6	206.5	205.8	201.5	197.2	196.2	196.9	200.4
55°	185.5	186.2	183.3	184.7	184.4	181.2	179.4	176.2	175.1	174.8	176.5
57.5°	158.3	159.1	157.3	158.7	158.7	156.9	155.9	155.9	153.4	151.2	153.7
60°	133.7	132.3	133.4	135.2	135.2	134.1	133.4	133.4	131.6	130.9	132.7
62.5°	113.8	112.3	113.4	115.2	115.6	114.8	114.1	114.1	112.0	112.0	113.4
65°	98.4	98.8	98.4	99.9	99.9	100.2	99.5	98.8	96.3	97.4	97.0
67.5°	87.4	87.0	87.0	88.4	88.1	88.8	88.1	87.0	85.2	83.8	83.5
70°	78.1	77.7	77.7	78.5	78.8	78.8	78.5	77.7	75.3	73.8	72.8
72.5°	69.9	69.5	69.9	70.3	70.6	71.0	70.6	69.9	67.8	66.0	64.2
75°	62.4	62.1	63.1	63.1	63.5	63.5	63.8	63.5	61.7	59.6	57.4
77.5°	54.9	55.3	56.3	56.7	57.4	57.8	58.1	58.1	56.3	54.6	51.7
80°	48.9	49.6	50.3	50.6	51.4	52.4	52.8	53.1	51.7	49.9	46.7
82.5°	44.6	44.9	45.6	46.0	47.1	47.4	47.8	48.5	47.8	46.0	42.4
85°	41.0	41.4	42.1	42.1	42.8	43.5	43.9	44.2	43.9	42.1	38.5
87.5°	37.8	38.2	38.5	38.9	39.2	39.6	39.9	40.3	39.9	38.2	35.0
90°	35.0	35.0	35.3	35.3	35.7	36.0	36.7	36.7	36.4	35.0	31.7
92.5°	31.7	32.1	32.1	32.5	32.8	33.2	33.5	33.5	33.2	31.7	28.9
95°	29.6	29.6	30.0	30.0	30.3	30.3	30.7	30.7	30.3	28.9	26.0
97.5°	27.1	27.1	27.1	27.1	27.5	27.5	27.8	27.8	27.5	26.0	23.5
100°	25.0	25.0	25.0	25.0	25.0	25.3	25.3	25.3	25.0	23.5	21.0
102.5°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	22.5	21.4	18.9
105°	22.1	22.1	22.1	21.8	21.8	21.8	21.4	21.4	20.3	19.3	17.1
107.5°	20.7	20.7	20.7	20.3	20.3	20.0	19.6	19.6	18.5	17.5	15.3
110°	19.6	19.6	19.6	19.3	18.9	18.5	18.2	17.8	16.8	15.3	13.6

TEST NUMBER: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	18.5	18.5	18.2	18.2	17.8	17.5	16.8	16.4	15.3	13.9	12.1
115°	17.1	17.1	17.1	16.8	16.4	16.0	15.7	15.0	13.9	12.5	10.7
117.5°	15.7	15.7	15.7	15.3	15.0	14.6	14.3	13.6	12.5	11.1	9.6
120°	14.3	14.3	14.3	13.9	13.6	13.2	12.8	12.1	11.1	10.0	8.2
122.5°	13.2	13.2	12.8	12.5	12.1	11.8	11.4	10.7	10.0	8.6	7.1
125°	11.8	11.8	11.4	11.4	11.1	10.7	10.3	9.6	8.6	7.5	6.4
127.5°	10.7	10.3	10.3	10.3	10.0	9.6	8.9	8.6	7.5	6.4	5.3
130°	9.3	9.3	9.3	8.9	8.9	8.6	7.8	7.1	6.4	5.7	4.6
132.5°	8.2	8.2	8.2	8.2	7.8	7.5	6.8	6.4	5.7	4.6	3.9
135°	7.5	7.5	7.1	7.1	6.8	6.4	6.1	5.3	4.6	3.9	3.2
137.5°	6.4	6.4	6.4	6.1	6.1	5.7	5.0	4.6	4.3	3.6	2.9
140°	5.7	5.7	5.3	5.3	5.0	5.0	4.6	3.9	3.6	2.9	2.5
142.5°	5.0	5.0	4.6	4.6	4.3	4.3	3.9	3.6	2.9	2.5	1.8
145°	4.3	4.3	3.9	3.9	3.9	3.6	3.2	2.9	2.5	2.1	1.8
147.5°	3.6	3.6	3.6	3.2	3.2	2.9	2.9	2.5	2.1	1.8	1.4
150°	3.2	3.2	2.9	2.9	2.9	2.5	2.1	2.1	1.8	1.4	1.1
152.5°	2.5	2.5	2.5	2.5	2.1	2.1	1.8	1.8	1.4	1.1	1.1
155°	2.1	2.1	2.1	1.8	1.8	1.8	1.4	1.4	1.1	1.1	0.7
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: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	686.5	686.2	689.4	689.0	684.7	691.2	695.4
5°	684.7	684.4	687.2	688.0	683.3	690.1	694.7
7.5°	683.3	683.0	686.2	687.2	682.6	688.7	693.7
10°	683.7	681.9	684.7	685.5	681.2	687.6	691.9
12.5°	686.2	681.9	683.0	683.0	679.0	684.7	689.4
15°	692.2	683.3	681.9	680.8	675.8	681.2	685.8
17.5°	699.0	686.9	681.9	678.3	672.3	676.9	681.9
20°	705.8	690.8	682.6	676.9	668.7	673.0	676.5
22.5°	709.0	694.4	683.3	674.8	664.4	666.6	670.5
25°	704.7	693.0	681.9	671.6	659.1	659.4	662.6
27.5°	689.0	685.8	678.7	668.3	654.8	653.0	655.5
30°	662.3	671.2	671.6	664.1	649.8	646.2	647.3
32.5°	624.8	644.8	656.6	655.1	642.7	637.7	638.4
35°	581.7	606.6	632.3	640.9	632.0	628.0	626.6
37.5°	530.0	563.5	597.7	618.8	617.3	614.8	613.4
40°	472.9	513.2	553.9	587.4	597.7	597.7	598.4
42.5°	411.9	459.0	503.6	546.0	570.3	575.6	577.8
45°	353.1	400.5	449.0	497.9	530.3	547.1	553.1
47.5°	299.6	347.4	393.4	446.9	490.0	511.8	521.4
50°	253.9	289.6	338.1	391.2	438.3	465.1	484.0
52.5°	216.1	243.9	286.4	336.0	383.4	420.1	437.6
55°	184.4	203.3	239.3	282.1	327.4	365.6	385.9
57.5°	157.6	172.6	197.2	232.9	271.0	308.9	330.6
60°	134.1	144.4	161.2	189.4	221.8	254.3	275.3
62.5°	113.8	120.5	131.6	152.3	177.6	202.9	222.5
65°	98.1	100.9	107.0	119.8	139.1	158.3	175.1
67.5°	82.7	84.5	89.2	97.0	106.6	120.5	131.6
70°	71.3	71.3	71.7	76.3	81.3	90.2	98.1
72.5°	62.1	61.0	58.8	59.9	61.0	66.0	71.0
75°	54.6	52.1	48.5	47.1	46.4	47.1	49.9
77.5°	48.1	44.6	40.3	36.7	33.9	32.8	35.3
80°	42.8	38.5	33.5	28.9	24.3	21.8	22.8
82.5°	38.5	33.2	27.8	22.5	17.1	13.6	13.6
85°	33.9	28.9	23.2	17.5	12.1	7.5	6.8
87.5°	30.7	25.3	19.3	13.9	8.6	3.9	2.1
90°	27.5	22.1	16.4	11.1	6.1	1.8	0.0
92.5°	24.6	19.6	14.3	8.9	4.3	1.1	0.0
95°	22.1	17.5	12.1	7.5	3.6	0.7	0.4
97.5°	19.6	15.3	10.7	6.1	2.5	0.7	0.4
100°	17.8	13.6	9.3	5.0	2.1	0.4	0.4
102.5°	15.7	12.1	7.8	4.3	1.8	0.4	0.4
105°	13.9	10.7	6.8	3.6	1.4	0.4	0.4
107.5°	12.5	9.3	6.1	3.2	1.4	0.4	0.4
110°	11.1	8.2	5.3	2.9	1.1	0.4	0.4

TEST NUMBER: P1213316

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	10.0	7.1	4.6	2.5	0.7	0.4	0.4
115°	8.6	6.4	3.9	2.1	0.7	0.4	0.4
117.5°	7.5	5.3	3.6	1.8	0.7	0.4	0.4
120°	6.4	4.6	2.9	1.4	0.4	0.4	0.4
122.5°	5.7	3.9	2.5	1.4	0.4	0.4	0.4
125°	5.0	3.6	2.1	1.1	0.4	0.4	0.4
127.5°	4.3	2.9	1.8	0.7	0.4	0.4	0.4
130°	3.6	2.5	1.4	0.7	0.4	0.4	0.4
132.5°	2.9	2.1	1.4	0.7	0.4	0.4	0.4
135°	2.5	1.8	1.1	0.7	0.4	0.4	0.4
137.5°	2.1	1.4	0.7	0.7	0.7	0.4	0.4
140°	1.8	1.1	0.7	0.7	0.7	0.7	0.4
142.5°	1.4	1.1	0.7	0.7	0.7	0.7	0.4
145°	1.1	0.7	0.7	0.7	0.7	0.7	0.4
147.5°	1.1	0.7	0.7	0.7	0.7	0.7	0.4
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)