

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: P1214019

Luminaire Tested: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

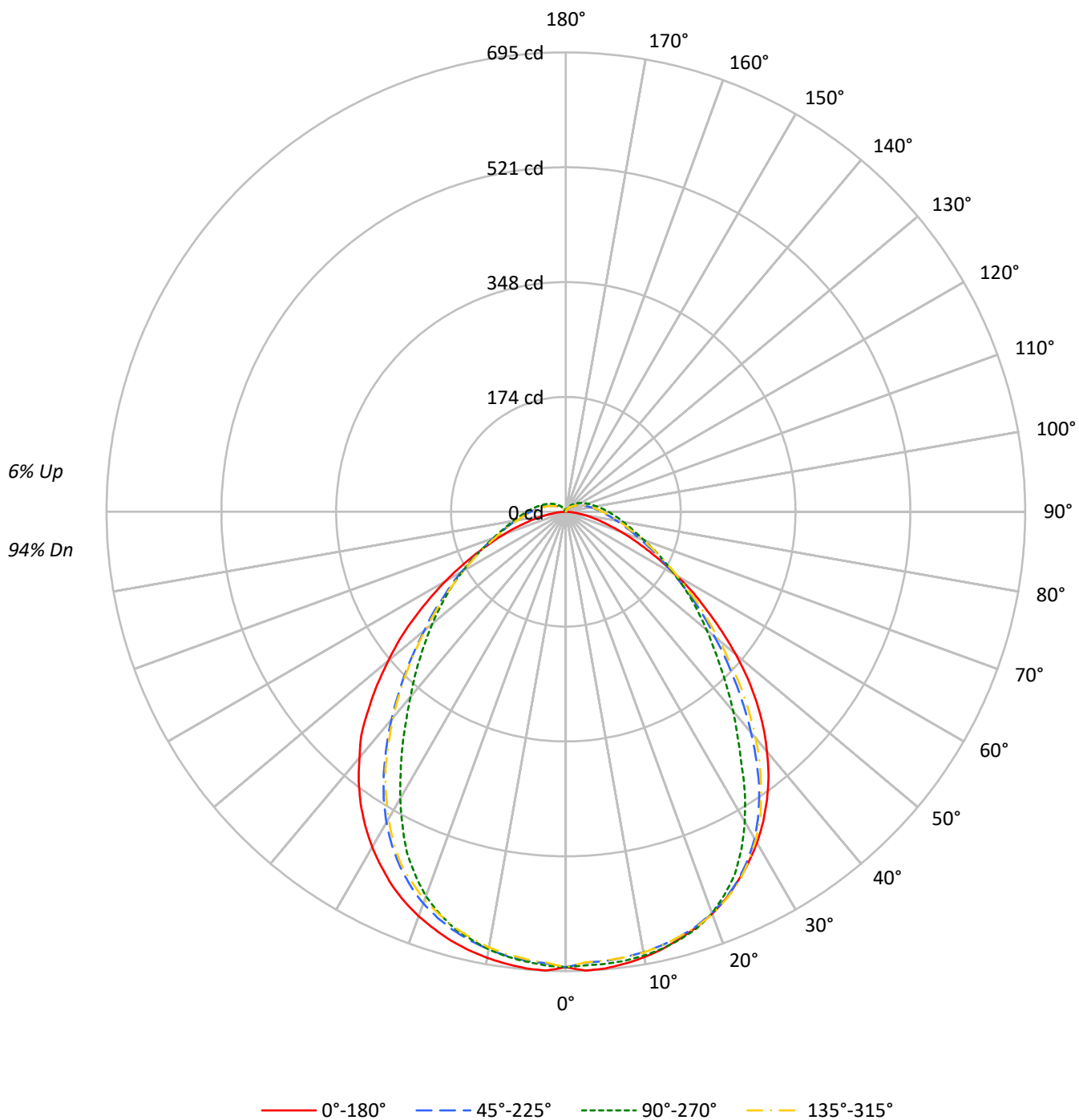
Lumens per Lamp: N/A
Luminaire Lumens: 1744.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11137	11137	11137	11137
5°	11187	10783	11187	10735
10°	11106	10496	11124	10350
15°	11005	10183	11054	9918
20°	10887	9780	10951	9367
25°	10679	9182	10799	8640
30°	10418	8303	10555	7686
35°	10032	7226	10225	6728
40°	9490	6318	9743	5863
45°	8790	5492	9076	5178
50°	7851	4826	8195	4583
55°	6747	4263	7235	4047
60°	5626	3741	6137	3528
65°	4563	3309	5025	3068
70°	3577	2936	4005	2715
75°	2744	2710	3089	2494
80°	1903	2615	2240	2392
85°	1071	2632	1439	2419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 9076 cd/sqm

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.7
10°-20°	187.3	10.7
20°-30°	277.6	15.9
30°-40°	308.5	17.7
40°-50°	279.6	16.0
50°-60°	216.7	12.4
60°-70°	147.1	8.4
70°-80°	93.6	5.4
80°-90°	59.8	3.4
90°-100°	40.3	2.3
100°-110°	27.6	1.6
110°-120°	18.4	1.1
120°-130°	11.5	0.7
130°-140°	6.3	0.4
140°-150°	3.0	0.2
150°-160°	1.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	530.3	30.4
0°-40°	838.8	48.1
0°-60°	1335.0	76.6
0°-90°	1635.6	93.8
90°-120°	86.4	5.0
90°-150°	107.2	6.1
90°-180°	108.0	6.2
0°-180°	1744.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	689	689	689	689	689	
5°	693	686	693	683	693	66
15°	669	670	672	652	669	189
25°	616	605	623	569	616	284
35°	531	462	541	431	531	331
45°	409	330	422	312	409	314
55°	261	232	280	221	261	235
65°	135	156	149	145	135	136
75°	54	104	61	96	54	58
85°	10	75	13	69	10	12
90°	0	65	1	59	0	1
95°	0	55	0	52	0	0
105°	0	41	0	38	0	0
115°	0	31	0	28	0	0
125°	0	23	0	20	0	0
135°	0	16	0	13	0	0
145°	0	10	0	7	0	0
155°	0	6	0	3	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	694.8	694.1	693.3	692.2	693.3	696.3	694.4	690.3	689.5	682.7	685.7
5°	693.3	692.2	691.4	690.3	691.8	695.6	693.7	689.9	688.7	682.3	685.7
7.5°	689.5	688.7	687.6	687.6	689.1	692.9	691.4	687.2	686.5	680.0	683.8
10°	684.2	683.8	683.1	683.1	684.6	689.1	687.2	683.4	682.7	676.6	680.8
12.5°	677.4	677.8	676.6	676.6	678.9	683.4	681.9	677.8	677.0	671.7	675.9
15°	668.7	669.0	668.3	668.7	670.9	676.2	674.3	670.6	669.8	665.6	669.0
17.5°	658.8	659.2	659.2	658.8	661.5	666.8	665.2	661.8	660.7	657.3	661.5
20°	647.4	647.4	647.4	647.4	650.5	655.8	653.9	651.2	648.9	646.3	649.7
22.5°	633.4	633.0	633.4	634.5	637.6	641.7	640.6	637.6	634.2	632.6	635.3
25°	616.3	617.5	617.9	619.0	622.8	626.2	625.1	622.0	616.7	615.6	616.3
27.5°	598.5	599.3	600.4	600.0	605.4	608.8	606.5	603.8	596.3	595.1	594.4
30°	578.4	579.6	580.3	580.0	584.1	587.9	585.6	582.2	572.0	571.2	565.2
32.5°	555.7	556.8	557.6	557.6	563.7	565.2	561.0	556.1	545.1	542.4	537.1
35°	530.7	531.8	532.2	532.2	538.3	537.9	532.6	525.8	513.6	510.2	501.1
37.5°	503.8	504.5	504.9	507.2	509.8	507.6	500.7	492.0	482.9	473.4	463.6
40°	473.4	474.6	475.3	476.9	479.5	476.9	467.0	456.4	446.5	435.9	426.1
42.5°	442.4	445.8	445.0	444.6	446.2	438.9	431.4	419.2	409.4	398.4	388.5
45°	408.6	408.2	410.1	410.9	410.5	404.5	393.8	382.8	373.0	361.6	353.3
47.5°	373.0	372.6	374.1	374.9	372.6	366.2	357.8	345.3	337.0	327.1	320.7
50°	335.5	335.5	337.7	335.5	334.3	327.9	321.1	308.6	302.1	293.4	289.6
52.5°	297.9	301.4	299.1	298.3	297.2	290.7	285.4	275.2	269.9	266.1	261.5
55°	260.8	264.6	263.1	261.9	261.5	256.2	251.3	243.7	240.3	237.7	235.0
57.5°	229.3	229.0	228.2	227.1	227.4	223.3	218.3	214.2	212.7	211.5	212.3
60°	192.9	196.0	194.8	195.2	195.6	194.8	190.7	188.0	188.4	188.8	189.9
62.5°	163.0	165.6	167.5	166.0	166.8	167.9	165.6	164.9	166.4	167.9	169.4
65°	135.3	138.0	139.9	139.5	141.8	144.0	143.7	144.4	147.8	149.7	151.6
67.5°	110.3	113.0	115.6	116.0	119.4	122.8	124.3	127.0	130.8	133.4	135.7
70°	88.7	91.0	94.0	95.9	100.5	105.0	107.7	113.0	115.2	119.0	120.5
72.5°	69.4	71.3	75.4	80.0	83.8	89.5	94.8	99.3	102.7	106.9	108.8
75°	54.2	55.0	59.5	64.8	70.1	76.6	82.3	87.2	91.7	95.9	98.9
77.5°	39.8	40.9	45.1	52.3	58.4	65.2	71.6	76.9	81.9	86.0	90.2
80°	27.7	29.9	34.5	41.7	48.5	56.1	62.2	68.2	73.5	77.7	81.9
82.5°	17.8	19.7	26.2	33.4	40.6	48.1	54.6	60.6	66.3	70.9	74.7
85°	9.9	12.5	19.0	26.5	33.7	41.3	48.1	54.2	59.9	64.1	67.9
87.5°	3.8	7.6	13.6	20.8	28.1	35.3	42.5	48.1	53.8	58.4	61.8
90°	0.0	4.5	10.2	17.4	24.6	31.8	38.7	44.7	50.0	54.2	58.0
92.5°	0.4	3.0	8.0	14.0	20.8	27.7	34.1	40.2	45.5	49.7	53.1
95°	0.4	2.3	6.4	12.1	18.2	24.6	30.7	36.4	41.3	45.5	48.9
97.5°	0.4	1.5	5.3	10.6	15.9	22.4	28.1	33.4	37.9	42.1	44.7
100°	0.4	1.5	4.5	9.1	14.4	20.1	25.4	30.7	34.9	38.3	41.3
102.5°	0.4	1.1	3.8	8.0	12.9	17.8	23.1	28.1	31.8	35.3	38.3
105°	0.4	1.1	3.4	6.8	11.4	16.3	20.8	25.4	29.6	32.6	35.3
107.5°	0.4	0.8	3.0	5.7	9.9	14.8	19.3	23.1	26.9	29.9	32.6
110°	0.4	0.8	2.7	5.3	8.7	13.3	17.4	21.2	24.6	27.7	29.9

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.8	2.3	4.9	8.0	11.8	15.9	19.3	22.7	25.4	27.7
115°	0.4	0.8	2.3	4.5	7.2	10.2	14.0	17.8	20.5	23.5	25.4
117.5°	0.4	0.8	1.9	3.8	6.8	9.5	12.9	15.9	19.0	21.6	23.5
120°	0.4	0.8	1.9	3.4	6.1	8.7	11.4	14.4	17.4	19.3	21.2
122.5°	0.4	0.8	1.5	3.4	5.3	8.0	10.2	12.9	15.5	17.8	19.7
125°	0.4	0.8	1.5	3.0	4.9	7.2	9.5	11.4	14.0	15.9	17.8
127.5°	0.4	0.8	1.5	2.7	4.5	6.4	8.7	10.6	12.5	14.4	15.9
130°	0.4	0.8	1.1	2.3	4.2	5.7	7.6	9.9	11.4	12.9	14.4
132.5°	0.4	0.8	1.1	2.3	3.4	4.9	6.8	8.7	10.2	11.8	12.9
135°	0.4	0.8	1.1	1.9	3.0	4.5	5.7	7.6	9.1	10.6	11.8
137.5°	0.4	0.8	1.1	1.9	2.7	3.8	4.9	6.4	8.0	9.1	10.6
140°	0.4	0.8	1.1	1.5	2.3	3.4	4.5	5.3	6.8	8.0	9.1
142.5°	0.4	0.8	1.1	1.5	2.3	3.0	3.8	4.5	5.7	6.8	8.0
145°	0.4	0.8	1.1	1.5	1.9	2.7	3.4	4.2	4.5	5.7	6.4
147.5°	0.4	0.8	1.1	1.5	1.5	2.3	3.0	3.4	4.2	4.5	5.3
150°	0.4	0.8	1.1	1.1	1.5	1.9	2.7	3.0	3.4	4.2	4.5
152.5°	0.4	0.8	1.1	1.1	1.5	1.9	2.3	2.7	3.0	3.4	3.8
155°	0.4	0.8	1.1	1.1	1.1	1.5	1.9	2.3	2.7	3.0	3.4
157.5°	0.8	0.8	0.8	1.1	1.1	1.5	1.5	1.9	2.3	2.3	2.7
160°	0.8	0.8	0.8	1.1	1.1	1.1	1.5	1.5	1.9	1.9	2.3
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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	685.0	686.1	689.5	689.5	688.7	688.0	688.0	686.9	687.6	689.1	688.4
5°	685.0	686.1	689.5	689.5	688.7	688.0	687.6	686.5	687.6	689.1	688.4
7.5°	682.7	684.2	687.6	687.6	686.9	686.5	685.7	685.0	686.1	687.6	686.9
10°	679.7	681.2	684.6	684.6	683.8	683.8	682.7	681.9	683.4	684.6	684.2
12.5°	675.1	677.0	680.0	679.7	678.9	679.3	678.1	676.6	678.1	679.3	679.7
15°	668.7	670.9	674.0	673.2	672.1	672.8	670.9	669.8	670.9	673.2	672.8
17.5°	660.3	661.8	664.1	664.1	663.0	662.2	661.5	660.3	661.1	662.6	663.0
20°	648.6	650.5	651.6	650.5	650.1	648.9	647.4	646.3	647.8	650.1	650.5
22.5°	633.0	633.4	636.1	633.4	631.5	631.1	629.6	627.3	629.6	631.5	631.9
25°	613.7	615.6	614.5	609.9	609.9	606.9	606.1	605.0	605.4	608.8	610.3
27.5°	589.1	589.8	586.8	583.0	579.6	577.7	575.0	575.4	575.4	580.0	581.5
30°	562.1	558.0	555.3	549.3	546.6	542.1	541.3	541.3	540.5	542.8	549.6
32.5°	529.9	524.2	520.1	514.4	509.8	505.3	503.0	504.1	503.8	509.5	511.7
35°	494.7	491.3	482.5	475.3	472.7	465.9	465.9	462.5	464.7	471.2	473.8
37.5°	457.5	452.2	445.0	437.1	435.2	429.9	428.0	426.1	431.0	432.1	434.8
40°	419.6	414.7	407.9	400.3	400.3	393.8	393.8	393.8	394.2	396.5	401.4
42.5°	383.6	378.3	372.2	366.9	366.2	361.2	361.2	360.9	361.6	363.5	368.1
45°	348.7	344.6	338.1	335.5	335.8	330.5	331.7	330.5	332.1	334.0	335.5
47.5°	316.5	313.9	311.2	307.4	306.3	305.9	304.0	302.5	305.1	305.1	307.4
50°	286.6	285.1	283.5	281.3	281.6	280.1	277.8	277.8	279.7	280.1	281.6
52.5°	260.4	258.5	256.6	257.0	257.4	256.6	255.5	254.3	255.5	256.2	258.1
55°	234.3	232.7	234.6	233.9	234.6	233.9	233.1	232.4	234.3	233.1	235.0
57.5°	210.8	212.3	213.0	211.5	212.7	211.9	212.3	211.1	212.7	213.4	213.0
60°	189.1	191.4	190.3	190.7	192.2	191.4	189.9	191.0	192.6	192.9	192.6
62.5°	169.4	172.1	173.2	172.5	172.9	172.1	173.2	171.7	173.6	174.4	173.2
65°	151.6	154.7	155.4	155.4	155.4	154.7	155.8	156.2	156.9	156.9	156.2
67.5°	136.5	139.1	139.9	140.6	139.9	139.1	139.1	139.5	141.0	141.8	141.0
70°	122.8	125.5	125.8	125.8	126.2	127.0	125.5	126.2	127.4	127.7	127.4
72.5°	111.1	113.7	114.5	114.1	114.5	114.9	114.9	114.1	115.2	116.0	116.0
75°	101.6	103.1	103.9	103.9	104.2	104.6	104.6	104.2	105.0	105.4	105.8
77.5°	92.9	94.0	95.1	95.1	95.5	95.1	95.9	95.9	96.3	96.7	97.0
80°	84.2	85.7	86.4	86.8	87.6	87.9	87.9	87.9	88.3	88.7	88.7
82.5°	77.3	78.5	79.6	80.7	80.7	81.1	81.1	81.1	81.5	81.5	81.9
85°	70.5	72.0	73.2	73.9	74.3	74.7	74.7	75.1	75.1	75.1	75.4
87.5°	64.4	66.3	67.1	67.9	68.2	69.0	69.0	69.0	69.4	69.4	69.4
90°	60.3	62.2	62.9	63.7	64.1	64.4	64.4	64.8	64.8	65.2	65.2
92.5°	55.3	57.2	58.8	58.8	59.1	59.9	59.5	59.5	59.9	60.3	60.3
95°	51.6	53.1	54.2	54.6	55.0	55.0	55.0	55.3	55.0	55.3	55.3
97.5°	47.0	48.5	49.7	50.4	50.8	50.8	50.8	51.2	50.8	51.2	51.2
100°	43.2	44.7	45.9	46.2	47.0	47.0	47.0	47.0	47.0	47.0	47.4
102.5°	40.2	41.7	42.5	42.8	43.2	43.6	43.6	43.6	43.6	44.0	44.0
105°	37.1	38.7	39.4	39.8	40.2	40.6	40.6	40.6	40.9	40.9	40.6
107.5°	34.5	35.6	36.4	37.1	37.5	37.5	37.9	37.9	37.9	37.9	37.9
110°	31.8	33.0	34.1	34.9	34.9	35.3	35.3	35.6	35.6	35.3	35.6

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	29.2	30.7	31.5	32.2	32.6	33.0	33.0	33.0	33.0	33.0	33.0
115°	26.9	28.4	29.2	29.9	30.3	30.7	30.7	30.7	30.7	30.7	30.7
117.5°	25.0	26.5	27.3	27.7	28.1	28.4	28.8	28.8	28.8	28.8	28.4
120°	23.1	24.3	25.0	25.8	26.2	26.5	26.5	26.5	26.5	26.5	26.5
122.5°	21.2	22.4	23.1	23.9	24.3	24.6	24.6	24.6	24.6	24.6	24.6
125°	19.3	20.5	21.2	22.0	22.4	22.7	22.7	22.7	22.7	22.7	22.7
127.5°	17.4	18.6	19.7	20.1	20.5	20.8	20.8	20.8	21.2	20.8	20.8
130°	15.5	16.7	17.8	18.2	18.6	19.0	19.3	19.3	19.3	19.3	19.0
132.5°	14.0	15.2	15.9	16.3	17.1	17.1	17.4	17.4	17.4	17.4	17.1
135°	12.9	13.6	14.4	14.8	15.5	15.5	15.5	15.9	15.9	15.5	15.2
137.5°	11.4	12.1	12.9	13.3	13.6	14.0	14.0	14.4	14.0	14.0	14.0
140°	10.6	11.0	11.8	12.1	12.5	12.5	12.5	12.9	12.9	12.5	12.5
142.5°	9.1	9.9	10.6	11.0	11.4	11.4	11.4	11.4	11.4	11.4	11.4
145°	7.6	8.7	9.1	9.9	9.9	10.2	10.2	10.2	10.2	10.2	9.9
147.5°	6.4	7.2	8.3	8.7	8.7	9.1	9.1	9.1	9.1	9.1	8.7
150°	4.9	5.7	6.8	7.6	7.6	8.0	8.0	8.0	8.0	7.6	7.6
152.5°	4.2	4.9	5.3	6.1	6.4	6.4	6.4	6.8	6.4	6.4	6.4
155°	3.8	4.2	4.5	4.9	5.3	5.7	5.7	5.7	5.7	5.3	5.3
157.5°	3.0	3.4	3.8	4.2	4.5	4.9	4.9	4.9	4.9	4.9	4.5
160°	2.3	2.7	3.0	3.0	3.4	3.8	4.2	3.8	3.8	3.8	3.8
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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	687.6	687.2	688.4	686.5	680.8	682.3	681.5	685.0	685.7	686.5	689.9
5°	687.6	687.2	688.0	686.5	680.4	681.5	680.8	684.2	685.0	685.3	688.7
7.5°	686.1	685.7	686.9	685.0	678.5	680.0	678.9	682.3	682.7	683.1	686.1
10°	683.1	682.7	683.4	681.9	675.5	677.0	675.5	678.9	678.9	679.7	681.9
12.5°	678.5	677.8	679.3	677.4	670.2	672.1	671.3	673.6	674.0	674.3	676.6
15°	672.1	671.3	672.4	671.3	664.9	665.2	664.1	667.5	667.9	667.1	669.4
17.5°	662.6	661.8	664.1	663.4	656.9	658.4	658.0	658.8	659.9	658.0	661.1
20°	650.8	651.6	652.4	652.7	647.8	647.8	647.4	648.9	650.1	648.6	650.8
22.5°	633.4	635.3	637.6	638.3	634.9	634.5	636.8	636.1	637.2	636.4	638.0
25°	611.4	615.2	617.5	619.8	617.9	618.6	622.0	622.8	622.8	622.4	623.9
27.5°	584.1	589.1	593.2	598.2	596.3	597.8	603.5	604.2	605.7	604.2	607.3
30°	551.5	556.1	564.0	571.2	572.0	574.3	582.2	583.0	587.2	585.6	586.8
32.5°	518.9	521.2	530.3	537.5	542.1	547.7	556.5	558.0	563.7	564.8	564.8
35°	478.0	484.4	492.8	503.0	508.7	514.8	526.5	528.8	537.1	539.8	542.8
37.5°	443.5	449.6	454.9	465.5	475.7	482.5	492.0	497.7	506.4	511.3	515.1
40°	406.7	411.7	417.3	428.0	436.7	446.9	456.4	463.2	474.2	479.9	484.8
42.5°	371.9	375.6	381.7	389.3	398.4	409.8	418.9	426.8	438.6	446.5	452.2
45°	340.8	343.0	348.4	354.0	362.0	373.8	382.5	392.7	402.2	410.5	417.3
47.5°	311.6	314.6	317.3	321.1	328.3	335.5	345.7	355.6	365.0	374.1	381.0
50°	284.7	284.7	288.8	291.5	296.4	302.9	310.8	317.7	329.4	335.8	344.6
52.5°	258.5	260.0	262.3	263.8	267.6	271.8	278.2	283.9	293.8	299.8	308.2
55°	235.4	236.9	238.0	238.8	241.1	246.0	248.3	252.8	259.7	264.6	271.8
57.5°	213.4	214.2	215.3	215.7	216.1	219.1	221.0	222.1	229.0	233.9	239.9
60°	193.3	193.3	194.5	194.1	193.7	195.2	194.8	196.0	200.1	203.2	205.8
62.5°	174.4	174.4	174.7	174.0	173.6	173.6	172.1	173.2	174.4	174.7	176.6
65°	156.9	158.8	157.3	157.7	155.4	154.7	153.9	151.6	151.2	149.7	150.5
67.5°	141.4	142.9	141.4	141.4	139.5	138.0	136.1	132.3	131.2	128.1	127.4
70°	128.9	127.7	128.5	127.4	125.1	123.2	120.5	117.5	113.7	109.9	107.3
72.5°	116.7	116.7	116.0	114.9	113.7	109.9	106.9	103.5	98.9	94.0	90.2
75°	105.0	105.4	105.4	104.2	102.3	98.9	95.5	90.6	85.7	80.0	75.1
77.5°	96.7	96.7	96.7	94.8	92.9	89.8	85.7	80.4	75.1	68.2	62.5
80°	88.7	88.3	88.3	86.0	84.2	80.7	76.6	71.3	65.6	58.4	51.9
82.5°	82.3	81.9	81.1	79.2	76.6	73.2	69.0	63.3	57.2	50.8	42.8
85°	75.4	75.1	74.3	72.4	69.7	66.7	62.2	56.5	50.4	43.2	35.6
87.5°	69.4	69.0	67.9	66.7	63.7	60.3	55.7	50.4	44.0	37.1	29.6
90°	65.2	64.4	63.7	62.2	59.5	55.7	51.2	45.5	39.0	32.2	24.6
92.5°	60.3	59.9	58.8	57.2	55.0	51.2	46.6	41.3	34.9	28.4	21.2
95°	55.3	55.0	54.2	52.7	50.4	47.0	42.8	37.5	31.5	25.0	18.6
97.5°	50.8	50.8	49.7	48.5	45.9	43.2	39.0	34.1	28.4	22.7	16.7
100°	47.0	47.0	45.9	44.3	42.5	39.8	35.6	31.1	25.8	20.5	14.4
102.5°	43.6	43.2	42.5	40.9	39.0	36.4	32.6	28.4	23.5	18.2	12.9
105°	40.6	40.2	39.4	37.9	36.4	33.4	30.3	26.2	21.2	16.3	11.4
107.5°	37.5	37.1	36.8	35.3	33.4	30.7	27.7	23.5	19.3	14.8	10.2
110°	34.9	34.5	33.7	32.2	30.3	28.1	25.0	21.6	17.4	13.3	9.1

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	32.6	32.2	31.5	29.9	28.4	25.8	23.1	19.3	15.9	12.1	8.0
115°	30.3	29.9	29.2	27.7	25.8	23.5	20.8	17.8	14.0	10.6	7.2
117.5°	28.1	27.7	26.9	25.8	23.9	21.6	19.0	15.9	12.5	9.9	6.4
120°	26.2	25.4	24.6	23.5	21.6	19.7	17.1	14.4	11.4	8.7	5.7
122.5°	24.3	23.5	22.7	21.6	19.7	17.8	15.2	12.9	10.6	8.0	5.3
125°	22.0	21.6	20.8	19.7	17.8	15.9	14.0	11.8	9.5	7.2	4.5
127.5°	20.1	19.7	19.0	17.4	15.9	14.4	12.5	10.6	8.3	6.1	4.2
130°	18.6	17.8	17.1	15.9	14.8	13.3	11.4	9.5	7.6	5.3	3.8
132.5°	16.7	15.9	15.2	14.4	13.3	11.8	10.2	8.3	6.8	4.9	3.4
135°	15.2	14.4	13.6	12.9	11.8	10.6	9.1	7.6	6.1	4.5	3.0
137.5°	13.3	12.9	12.5	11.8	10.6	9.5	8.3	6.4	5.3	4.2	2.7
140°	12.1	11.8	11.4	10.2	9.5	8.3	7.2	5.7	4.5	3.4	2.3
142.5°	11.0	10.6	9.9	9.1	8.3	7.6	6.1	5.3	4.2	3.0	2.3
145°	9.5	9.1	8.7	8.0	7.2	6.1	5.3	4.5	3.8	2.7	1.9
147.5°	8.7	8.3	7.6	6.8	6.1	5.3	4.9	4.2	3.0	2.3	1.5
150°	7.2	6.8	6.4	5.7	5.3	4.9	4.2	3.4	2.7	1.9	1.5
152.5°	6.1	5.7	5.3	5.3	4.5	4.2	3.4	3.0	2.3	1.9	1.1
155°	5.3	5.3	4.9	4.5	3.8	3.4	3.0	2.3	1.9	1.5	1.1
157.5°	4.5	4.2	3.8	3.8	3.4	3.0	2.3	1.9	1.5	1.5	1.1
160°	3.8	3.4	3.4	3.0	2.7	2.3	1.9	1.9	1.5	1.1	1.1
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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	690.3	686.1	689.9	694.8	694.8	694.1	693.3	694.8	698.6	697.1	692.5
5°	689.1	685.0	688.4	693.3	693.3	692.2	691.4	692.5	696.7	694.8	690.6
7.5°	686.9	683.1	685.3	689.9	689.9	688.7	688.0	689.5	692.9	691.0	686.5
10°	682.7	678.5	681.2	685.3	685.0	684.2	683.1	685.0	688.0	685.3	680.0
12.5°	677.4	673.2	675.5	679.3	678.9	677.4	676.6	677.8	680.4	678.9	673.2
15°	670.2	666.0	667.9	671.7	670.6	669.4	667.9	668.3	671.7	669.0	663.0
17.5°	661.5	656.9	658.4	661.8	660.7	659.6	657.7	658.0	661.8	658.0	651.6
20°	650.8	645.9	647.1	651.2	649.3	647.4	645.5	645.5	649.3	645.2	638.0
22.5°	639.5	634.5	635.3	638.3	636.8	633.4	631.5	632.6	634.5	629.2	621.7
25°	625.4	619.0	620.1	623.2	622.0	617.5	615.6	616.3	615.6	611.4	603.5
27.5°	609.1	602.3	603.1	605.0	603.5	599.3	597.0	597.4	595.9	590.6	581.5
30°	588.7	585.3	584.9	586.0	583.7	579.6	576.9	576.2	575.8	568.2	557.2
32.5°	567.8	564.8	562.9	564.4	561.8	557.6	553.0	553.0	549.3	542.1	532.6
35°	546.6	541.7	539.8	540.9	537.9	532.6	528.8	526.9	521.2	512.1	501.9
37.5°	519.3	515.9	513.6	514.8	511.3	507.6	500.4	498.5	492.4	479.9	467.0
40°	489.7	487.1	484.8	486.0	482.2	476.5	470.0	467.0	460.2	446.2	435.9
42.5°	457.9	456.8	454.1	458.3	450.7	445.0	438.6	433.6	426.8	411.7	399.9
45°	424.2	426.8	420.8	421.9	417.0	412.0	405.2	398.0	391.2	376.8	363.5
47.5°	388.5	390.4	386.3	387.0	381.7	377.2	371.1	362.0	354.4	341.9	330.2
50°	351.8	351.0	351.0	350.2	346.1	340.4	334.3	326.0	318.4	307.0	297.2
52.5°	312.7	314.2	315.0	316.9	311.6	308.2	298.7	291.5	285.8	274.1	265.7
55°	275.2	280.5	279.0	279.7	273.7	271.0	263.4	257.8	249.4	242.6	237.3
57.5°	241.1	242.2	243.0	244.1	241.5	236.2	230.1	225.5	219.1	213.4	209.6
60°	208.1	208.1	208.5	210.4	207.7	203.2	198.6	195.2	190.7	187.3	185.0
62.5°	177.0	179.7	180.1	178.5	175.1	172.9	169.8	167.9	164.9	163.8	163.0
65°	148.2	148.2	148.2	149.0	147.1	145.6	143.7	143.3	144.4	142.9	143.7
67.5°	124.0	122.8	122.1	122.4	121.7	120.9	120.5	121.7	124.0	124.0	125.8
70°	103.1	100.8	99.3	99.3	99.3	99.7	100.8	103.1	106.9	108.4	111.1
72.5°	86.0	81.1	78.8	78.8	79.2	80.7	84.2	88.3	91.7	94.8	98.2
75°	69.7	64.8	61.4	61.0	61.8	64.1	69.0	72.8	78.5	82.6	86.8
77.5°	56.5	50.4	46.2	45.9	47.0	50.4	56.5	61.4	67.9	72.4	76.9
80°	45.1	38.3	34.9	32.6	34.5	38.7	45.5	51.6	57.6	63.7	69.4
82.5°	36.0	29.6	24.3	22.0	24.3	29.9	36.4	43.6	49.7	56.1	61.8
85°	28.4	21.6	15.5	13.3	15.9	22.0	29.2	36.4	43.2	49.7	55.3
87.5°	22.4	15.5	9.5	6.4	9.9	16.3	23.1	30.3	37.5	44.0	49.7
90°	17.4	11.0	5.3	0.8	5.7	11.8	18.6	25.4	32.6	39.0	44.7
92.5°	14.8	8.3	3.0	0.0	3.4	8.7	15.2	22.0	28.4	34.9	40.6
95°	12.5	6.8	2.3	0.0	2.3	6.8	12.5	18.6	25.0	31.5	37.1
97.5°	10.6	5.3	1.5	0.0	1.5	5.3	10.2	16.3	22.0	28.1	33.4
100°	9.1	4.5	1.1	0.0	1.1	4.2	8.7	14.0	19.7	25.4	30.3
102.5°	8.0	3.8	0.8	0.0	0.8	3.4	7.2	12.1	17.1	22.4	27.3
105°	6.8	3.0	0.8	0.0	0.4	2.7	6.1	10.6	15.2	20.1	24.6
107.5°	6.1	2.7	0.8	0.0	0.4	2.3	5.3	9.1	13.6	17.8	22.0
110°	5.3	2.3	0.8	0.0	0.4	1.5	4.5	8.0	11.8	15.9	20.1

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.5	1.9	0.4	0.0	0.0	1.1	3.8	6.8	10.2	14.4	17.8
115°	4.2	1.9	0.4	0.0	0.0	0.8	3.0	6.1	9.1	12.9	15.9
117.5°	3.8	1.5	0.4	0.0	0.4	0.8	2.7	5.3	8.0	11.0	14.4
120°	3.4	1.5	0.4	0.0	0.4	0.4	1.9	4.5	6.8	9.9	12.5
122.5°	3.0	1.5	0.4	0.0	0.4	0.4	1.5	3.8	6.1	8.7	11.0
125°	2.7	1.1	0.8	0.4	0.4	0.4	1.1	3.0	5.3	7.2	9.9
127.5°	2.7	1.1	0.8	0.4	0.4	0.4	0.8	2.7	4.2	6.4	8.7
130°	2.3	1.1	0.8	0.4	0.4	0.4	0.4	1.9	3.8	5.3	7.2
132.5°	1.9	1.1	0.8	0.4	0.4	0.4	0.4	1.1	2.7	4.5	6.1
135°	1.9	1.1	0.8	0.4	0.4	0.4	0.4	0.8	1.9	3.4	4.9
137.5°	1.5	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.7	3.8
140°	1.5	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.1	1.9	3.0
142.5°	1.1	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.5	2.3
145°	1.1	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.5
147.5°	1.1	1.1	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.1
150°	1.1	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
152.5°	1.1	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
155°	1.1	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
157.5°	1.1	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
160°	1.1	0.8	0.8	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8
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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	691.0	683.8	687.6	686.5	688.0	691.0	690.6	689.9	689.9	688.7	687.2
5°	688.7	681.9	685.3	683.4	685.3	688.0	687.6	686.5	687.2	685.3	683.4
7.5°	684.2	678.1	681.2	679.7	681.2	683.8	682.7	682.3	683.1	680.0	678.9
10°	678.9	672.1	675.5	673.6	675.5	677.4	676.6	675.1	676.6	673.6	672.4
12.5°	670.6	664.9	667.1	666.4	667.5	669.4	667.9	666.8	667.5	664.9	662.6
15°	661.5	655.8	657.7	656.5	657.3	659.6	656.9	656.5	655.8	653.1	652.4
17.5°	649.7	644.4	646.3	644.4	645.5	644.8	644.4	642.5	642.5	639.5	637.2
20°	635.3	630.8	629.6	628.1	629.6	628.1	625.8	624.3	623.9	620.9	619.0
22.5°	618.6	613.3	614.1	609.9	610.3	608.0	604.2	602.7	601.2	597.8	595.1
25°	598.5	593.2	589.4	586.8	583.4	583.0	578.1	574.3	573.9	569.7	569.3
27.5°	575.8	569.7	566.7	560.2	556.1	552.7	548.5	544.7	542.8	538.3	535.2
30°	549.6	542.8	535.2	530.7	524.2	521.6	514.4	509.8	508.3	503.4	501.1
32.5°	520.1	512.9	506.8	498.1	490.9	487.1	479.9	475.3	473.4	468.1	465.1
35°	487.8	479.9	472.7	464.3	458.7	452.2	443.5	438.9	434.8	432.9	430.6
37.5°	454.1	445.4	437.1	428.7	423.8	416.2	408.6	405.6	400.7	398.8	396.5
40°	419.2	410.5	402.6	394.6	388.9	382.1	375.3	374.1	368.8	366.9	365.4
42.5°	384.7	375.6	366.5	360.9	356.7	349.9	345.3	344.2	339.6	338.5	338.5
45°	353.7	342.3	334.7	329.8	326.4	320.7	316.9	316.1	312.3	311.6	311.6
47.5°	320.3	309.7	304.0	301.0	297.9	293.8	291.5	291.5	287.7	286.9	286.6
50°	289.2	279.4	275.2	272.2	271.8	268.8	266.9	266.1	266.1	263.4	263.8
52.5°	259.7	254.7	251.3	249.4	247.1	245.3	243.7	243.7	242.6	240.7	241.5
55°	232.4	226.7	227.1	225.5	224.4	223.3	223.6	221.4	221.0	219.5	220.6
57.5°	205.1	205.1	204.3	203.2	201.3	202.0	202.0	202.0	200.1	199.0	200.1
60°	181.9	183.1	181.2	182.3	181.6	181.9	181.2	181.2	180.1	179.7	180.1
62.5°	161.5	163.4	162.6	164.1	163.4	163.8	164.5	163.0	162.2	161.5	162.2
65°	143.3	145.6	145.2	146.3	146.7	147.1	147.5	146.7	145.9	145.2	144.8
67.5°	127.4	129.6	131.2	131.5	131.9	133.0	132.7	131.9	131.2	130.0	129.6
70°	113.0	116.0	117.9	118.6	120.2	119.4	119.4	119.0	118.3	117.1	116.7
72.5°	100.8	104.2	106.1	106.9	108.4	108.4	108.0	107.7	106.9	105.8	105.4
75°	90.2	93.2	95.9	97.4	98.6	98.6	98.2	97.8	97.0	96.3	95.9
77.5°	81.9	84.5	86.8	88.7	89.5	89.8	89.5	88.7	88.7	88.3	87.9
80°	73.5	76.6	78.8	80.7	81.9	81.9	81.5	81.9	81.1	80.7	80.4
82.5°	66.3	69.7	72.4	74.3	75.1	75.4	75.1	75.4	74.7	74.7	74.7
85°	59.9	63.3	66.3	67.9	69.0	69.4	69.4	69.4	69.0	69.0	69.0
87.5°	54.6	58.0	61.0	62.5	63.7	64.1	64.1	64.4	63.7	63.7	63.7
90°	49.7	53.1	56.1	57.6	58.8	59.5	59.5	59.9	59.5	59.1	59.1
92.5°	45.1	48.9	51.9	53.4	54.6	55.7	55.7	56.1	55.3	55.3	55.3
95°	41.3	45.1	47.8	49.7	50.8	51.6	51.9	51.9	51.6	51.6	51.6
97.5°	37.9	41.3	44.0	45.9	47.0	47.4	47.8	48.1	47.8	47.8	47.8
100°	34.5	37.9	40.6	42.1	43.6	44.0	44.3	44.7	44.7	44.3	44.3
102.5°	31.5	34.9	37.1	39.0	40.2	40.9	41.3	41.3	41.3	41.3	41.3
105°	28.4	31.8	34.1	36.0	37.1	37.9	38.3	38.7	38.7	38.3	38.3
107.5°	25.8	28.8	31.5	33.0	34.5	35.3	35.6	35.6	36.0	35.6	35.6
110°	23.1	26.5	28.8	30.3	31.8	32.6	33.0	33.4	33.4	33.4	33.4



TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	21.2	23.9	26.2	27.7	29.2	29.9	30.3	30.7	31.1	30.7	30.7
115°	19.0	21.6	23.9	25.4	26.5	27.3	28.1	28.4	28.4	28.8	28.4
117.5°	17.1	19.3	21.6	23.1	24.3	25.4	25.8	26.2	26.5	26.2	26.2
120°	15.2	17.4	19.3	20.8	22.0	23.1	23.5	23.9	24.3	23.9	23.9
122.5°	13.6	15.5	17.4	19.0	20.1	20.8	21.6	21.6	22.0	22.0	22.0
125°	12.1	14.0	15.5	17.1	18.2	19.0	19.3	19.7	19.7	20.1	20.1
127.5°	10.6	12.1	14.0	15.2	16.3	17.1	17.4	17.8	17.8	18.2	18.2
130°	9.1	10.6	12.1	13.3	14.4	15.2	15.5	15.9	16.3	16.3	16.3
132.5°	8.0	9.5	10.6	11.8	12.5	13.3	14.0	14.4	14.4	14.4	14.4
135°	6.4	8.0	9.1	10.2	11.0	11.8	12.1	12.9	12.9	12.9	12.9
137.5°	5.3	6.8	8.0	8.7	9.5	10.2	10.6	11.0	11.4	11.4	11.4
140°	4.2	5.3	6.4	7.6	8.3	8.7	9.5	9.5	9.9	9.9	9.9
142.5°	3.0	4.2	4.9	6.1	6.8	7.6	8.0	8.3	8.3	8.3	8.3
145°	2.3	3.0	3.8	4.5	5.7	6.1	6.4	6.8	7.2	7.2	7.2
147.5°	1.5	2.3	2.7	3.4	4.2	4.9	5.3	5.7	6.1	6.1	6.1
150°	1.1	1.5	2.3	2.7	3.0	3.8	4.5	4.5	4.9	4.9	4.5
152.5°	0.8	1.1	1.5	1.9	2.3	2.7	3.4	3.4	3.8	3.8	3.8
155°	0.8	0.8	0.8	1.1	1.5	1.9	2.3	2.7	2.7	2.7	2.7
157.5°	0.8	0.8	0.8	0.8	0.8	1.1	1.5	1.9	1.9	1.9	1.9
160°	0.8	0.8	0.4	0.4	0.8	0.8	0.8	0.8	1.1	1.1	1.1
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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	688.4	689.1	689.1	688.4	688.0	689.5	687.6	680.4	682.7	683.4	685.7
5°	685.0	685.7	685.7	685.7	685.0	686.5	684.6	677.4	680.0	681.2	682.7
7.5°	680.0	680.4	681.2	680.8	680.0	682.3	680.4	673.2	675.1	677.0	678.9
10°	673.6	673.6	674.0	674.7	674.0	675.9	674.0	667.5	669.4	670.6	672.8
12.5°	664.9	665.6	666.0	665.6	665.2	666.8	666.0	659.9	660.7	663.0	665.2
15°	653.1	653.1	655.0	654.3	654.3	655.8	656.5	649.7	650.8	654.3	656.5
17.5°	638.7	639.1	640.6	641.4	641.0	643.6	644.0	638.7	638.3	642.5	644.8
20°	620.1	620.9	622.8	624.3	624.3	627.3	628.5	625.1	625.4	630.0	630.8
22.5°	597.4	597.4	600.8	603.1	605.0	606.9	610.3	607.3	607.3	613.3	616.7
25°	569.3	572.0	573.1	577.7	580.3	585.6	588.7	589.1	589.4	595.1	597.4
27.5°	538.3	539.0	542.4	547.7	550.8	555.7	561.4	562.5	564.4	572.0	575.4
30°	503.0	505.3	506.8	514.4	518.6	525.0	532.2	534.9	536.4	546.6	550.8
32.5°	467.0	467.8	474.2	478.4	483.3	490.1	498.5	503.4	506.4	517.0	523.1
35°	431.0	432.5	437.8	443.1	448.0	454.9	463.6	470.4	475.7	485.2	493.2
37.5°	398.0	401.8	402.9	408.2	412.0	418.9	424.9	434.8	440.1	449.9	460.2
40°	368.4	369.6	370.3	375.6	378.3	384.7	393.5	399.9	407.1	414.3	426.4
42.5°	339.3	340.0	341.2	344.2	347.2	351.8	358.2	364.7	372.2	382.8	390.8
45°	312.3	313.1	313.9	315.8	318.4	322.6	326.7	331.3	338.9	348.0	356.3
47.5°	287.3	288.8	288.8	289.2	291.1	294.5	297.6	303.2	307.4	312.3	321.8
50°	263.4	264.6	265.0	265.0	266.1	268.4	269.1	272.9	276.7	281.3	288.1
52.5°	241.1	241.1	240.7	242.2	242.2	243.7	244.1	246.4	249.0	254.0	257.0
55°	219.9	219.9	221.0	220.2	220.2	221.0	220.6	221.0	223.3	226.3	229.0
57.5°	199.4	199.0	200.1	199.4	199.0	199.8	200.5	199.0	199.4	202.4	202.4
60°	178.9	179.3	180.4	179.7	179.7	179.7	178.9	178.2	177.4	179.3	180.1
62.5°	162.6	161.5	162.6	161.5	162.2	161.9	161.1	159.6	160.0	159.2	158.4
65°	145.6	145.6	145.9	144.8	145.6	145.6	144.4	144.0	141.8	141.0	139.1
67.5°	130.8	130.8	131.2	130.4	130.4	130.8	129.6	128.5	126.2	125.1	122.4
70°	117.9	117.9	117.9	117.5	117.5	117.5	116.7	115.2	113.0	111.1	107.7
72.5°	106.1	106.5	106.1	106.1	107.3	106.1	105.0	103.5	101.6	97.8	94.8
75°	96.7	97.0	96.7	96.7	96.7	96.3	95.9	93.6	91.4	88.3	83.8
77.5°	88.3	88.3	88.7	88.3	88.3	87.9	86.8	84.9	82.3	79.6	74.3
80°	80.4	80.7	81.1	81.5	80.7	80.4	79.2	77.7	74.3	71.3	66.0
82.5°	74.7	74.3	74.7	75.1	74.3	73.9	72.8	70.9	68.2	64.1	58.8
85°	69.0	68.6	68.6	69.0	68.6	67.9	66.7	64.8	62.2	58.0	52.7
87.5°	63.3	63.7	64.1	63.7	63.3	62.5	61.4	59.5	56.5	53.1	47.4
90°	59.1	59.1	59.1	59.1	58.8	58.0	56.9	54.6	51.9	47.8	42.8
92.5°	55.3	55.3	55.3	55.3	55.0	53.8	52.7	50.8	47.8	43.6	39.0
95°	51.6	51.9	51.6	51.6	50.8	50.4	48.5	46.6	44.0	39.8	34.9
97.5°	47.4	47.8	47.4	47.4	47.0	46.2	45.1	42.8	40.2	36.4	31.8
100°	44.3	44.3	44.0	44.0	43.6	42.8	41.3	39.4	36.8	33.0	28.4
102.5°	40.9	41.3	40.9	40.9	40.2	39.4	38.3	36.4	33.7	29.9	25.8
105°	38.3	38.3	37.9	37.9	37.1	36.4	35.3	33.0	30.7	27.3	23.1
107.5°	35.6	35.6	35.3	35.3	34.5	33.7	32.2	30.3	28.1	24.6	20.8
110°	33.0	33.0	33.0	32.6	31.8	30.7	29.6	27.7	25.4	22.4	18.6

TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	31.1	30.7	30.3	29.9	29.2	28.4	26.9	25.0	22.7	20.1	16.7
115°	28.4	28.4	28.1	27.7	26.9	25.8	24.6	23.1	20.8	17.8	14.8
117.5°	26.2	26.2	25.8	25.4	24.6	23.5	22.4	20.8	18.6	15.9	13.3
120°	23.9	23.9	23.5	23.1	22.4	21.2	20.5	18.6	16.7	14.0	11.8
122.5°	22.0	21.6	21.6	20.8	20.5	19.3	18.2	16.7	14.8	12.5	10.2
125°	19.7	19.7	19.3	19.0	18.6	17.4	16.3	14.8	12.9	11.0	9.1
127.5°	17.8	17.8	17.4	17.1	16.7	15.5	14.4	13.3	11.4	9.5	7.6
130°	15.9	15.9	15.5	15.2	14.8	13.6	12.9	11.4	9.9	8.3	6.4
132.5°	14.4	14.4	14.0	13.6	12.9	12.1	11.4	9.9	8.7	7.2	5.7
135°	12.9	12.5	12.5	12.1	11.4	10.6	9.9	8.7	7.2	6.1	4.5
137.5°	11.4	11.0	10.6	10.2	9.9	9.1	8.3	7.6	6.4	4.9	3.8
140°	9.9	9.5	9.5	9.1	8.3	8.0	7.2	6.1	5.3	4.2	3.0
142.5°	8.3	8.3	8.0	7.6	7.2	6.8	6.1	5.3	4.2	3.4	2.3
145°	7.2	6.8	6.8	6.4	6.1	5.3	4.9	4.2	3.4	2.7	1.9
147.5°	5.7	5.7	5.7	5.3	4.9	4.5	4.2	3.4	2.7	1.9	1.1
150°	4.5	4.5	4.5	4.2	3.8	3.4	3.0	2.7	1.9	1.1	0.8
152.5°	3.8	3.8	3.4	3.4	3.0	2.7	2.3	1.9	1.1	0.8	0.8
155°	2.7	2.7	2.7	2.3	2.3	1.9	1.5	1.1	0.8	0.8	0.8
157.5°	1.9	1.9	1.9	1.5	1.5	1.1	1.1	0.8	0.8	0.8	0.8
160°	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	684.6	684.2	687.2	687.2	683.8	689.1	694.8
5°	682.3	681.9	685.0	685.0	681.9	687.2	693.3
7.5°	677.8	678.1	681.2	681.9	678.1	683.1	689.5
10°	672.8	672.4	675.9	676.6	673.6	678.1	684.2
12.5°	664.9	664.9	668.3	669.4	666.4	671.7	677.4
15°	656.5	656.5	658.8	660.7	658.0	663.0	668.7
17.5°	645.9	645.5	647.8	650.1	647.4	652.7	658.8
20°	632.3	632.3	634.9	637.6	635.7	640.6	647.4
22.5°	617.9	616.3	620.9	622.8	621.7	626.6	633.4
25°	599.7	599.3	603.8	606.5	605.0	610.3	616.3
27.5°	580.0	579.6	584.1	587.5	586.8	591.7	598.5
30°	556.1	558.0	562.1	567.8	565.9	571.2	578.4
32.5°	531.1	533.0	537.9	543.9	544.3	548.5	555.7
35°	501.1	506.0	509.5	517.4	518.9	523.1	530.7
37.5°	469.7	475.3	482.5	488.6	491.6	495.0	503.8
40°	434.4	442.7	450.7	457.9	461.7	465.1	473.4
42.5°	402.6	409.0	416.6	423.8	430.6	433.6	442.4
45°	366.5	374.1	381.0	389.7	396.5	399.9	408.6
47.5°	331.3	338.9	348.0	354.0	361.2	364.7	373.0
50°	297.6	304.4	312.0	319.2	325.2	328.3	335.5
52.5°	264.2	271.4	278.6	283.2	289.6	291.9	297.9
55°	234.6	239.6	246.0	248.7	255.1	256.6	260.8
57.5°	206.2	209.6	211.9	216.4	221.0	224.4	229.3
60°	180.4	181.9	183.5	186.1	189.9	191.0	192.9
62.5°	157.3	156.9	160.0	160.7	161.1	164.9	163.0
65°	136.8	137.2	134.6	133.4	134.9	136.1	135.3
67.5°	119.8	117.5	115.2	112.6	110.3	111.4	110.3
70°	103.1	101.2	97.4	93.6	92.1	89.8	88.7
72.5°	89.8	85.3	81.5	76.6	73.9	71.3	69.4
75°	79.6	73.2	67.9	62.5	58.8	55.0	54.2
77.5°	69.0	62.9	56.9	51.2	45.5	41.3	39.8
80°	60.6	55.0	47.8	40.9	34.9	29.6	27.7
82.5°	53.1	47.0	39.8	32.6	25.8	20.1	17.8
85°	46.6	40.2	33.0	25.8	19.0	12.9	9.9
87.5°	41.7	34.5	27.3	20.5	13.3	7.2	3.8
90°	37.1	30.3	23.5	16.3	9.5	3.8	0.0
92.5°	33.0	26.5	19.7	13.3	7.2	2.3	0.4
95°	29.2	23.5	16.7	10.6	5.3	1.5	0.4
97.5°	26.2	20.5	14.4	8.7	4.2	1.1	0.4
100°	23.5	17.8	12.5	7.2	3.4	0.8	0.4
102.5°	20.8	15.9	10.6	6.1	2.7	0.4	0.4
105°	18.6	14.0	9.1	5.3	2.3	0.4	0.4
107.5°	16.7	12.5	8.0	4.5	1.5	0.4	0.4
110°	14.8	10.6	6.8	3.8	1.1	0.4	0.4



TEST NUMBER: P1214019

CATALOG NUMBER: 2SNLED-LD5-18SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	13.3	9.5	6.1	3.0	0.8	0.4	0.4
115°	11.8	8.3	5.3	2.7	0.8	0.4	0.4
117.5°	10.2	7.2	4.5	1.9	0.4	0.4	0.4
120°	9.1	6.4	3.8	1.5	0.4	0.4	0.4
122.5°	8.0	5.3	3.0	1.1	0.4	0.4	0.4
125°	6.8	4.5	2.7	0.8	0.4	0.4	0.4
127.5°	5.7	3.8	1.9	0.8	0.4	0.4	0.4
130°	4.9	3.0	1.5	0.4	0.4	0.4	0.4
132.5°	4.2	2.3	1.1	0.4	0.4	0.4	0.4
135°	3.4	1.9	0.8	0.4	0.4	0.4	0.4
137.5°	2.7	1.5	0.8	0.4	0.4	0.4	0.4
140°	1.9	1.1	0.4	0.4	0.4	0.4	0.4
142.5°	1.5	0.8	0.4	0.4	0.4	0.4	0.4
145°	1.1	0.8	0.4	0.4	0.4	0.4	0.4
147.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4
150°	0.8	0.8	0.4	0.4	0.8	0.4	0.4
152.5°	0.8	0.4	0.4	0.4	0.8	0.4	0.4
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.4
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)