

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: P1212966

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

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212966
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

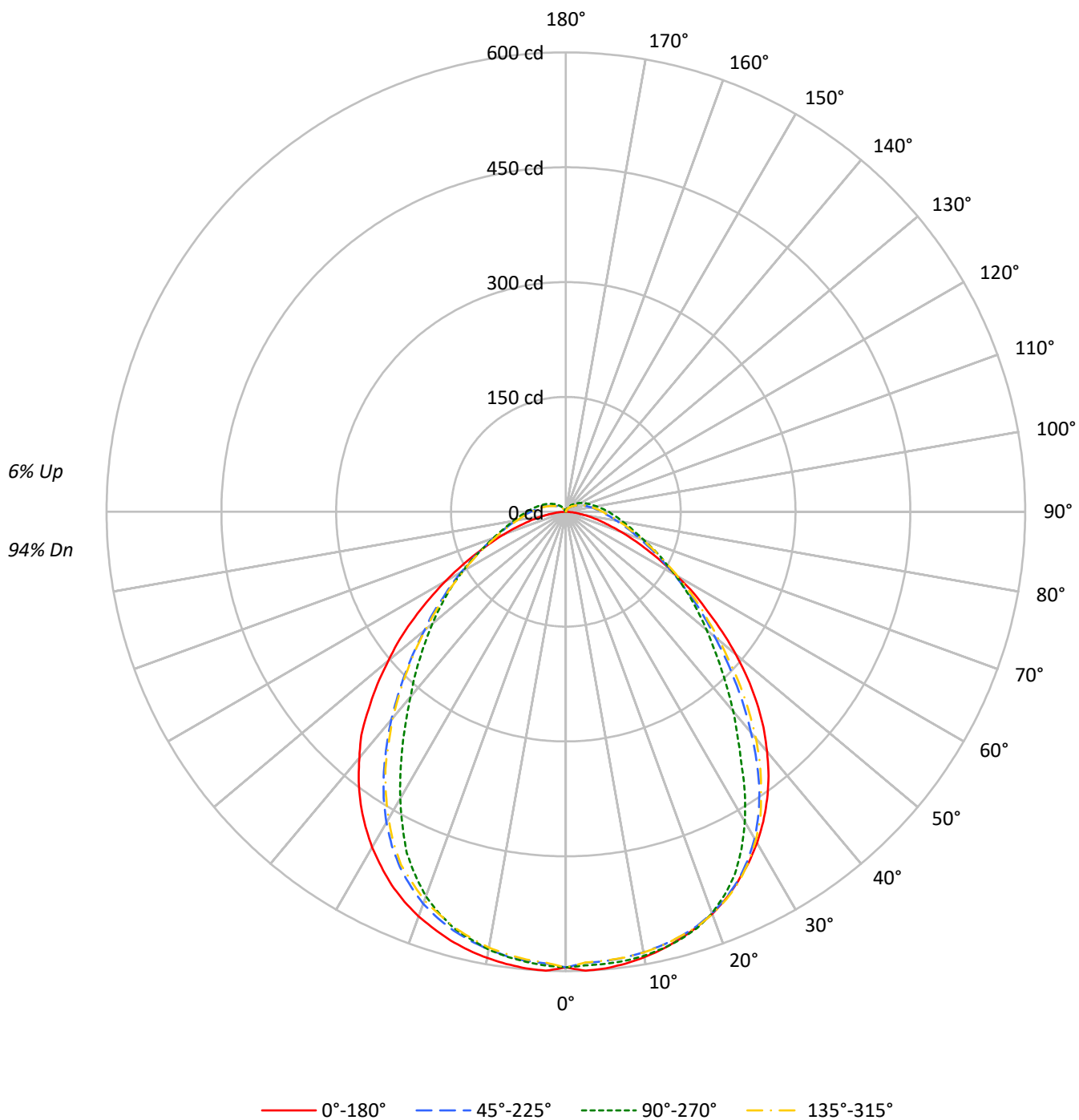
Lumens per Lamp: N/A
Luminaire Lumens: 1506.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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

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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	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°	9618	9618	9618	9618
5°	9660	9312	9660	9271
10°	9590	9065	9606	8938
15°	9502	8793	9545	8564
20°	9402	8445	9458	8088
25°	9222	7928	9324	7461
30°	8997	7169	9116	6637
35°	8663	6239	8830	5809
40°	8195	5457	8412	5062
45°	7592	4743	7837	4472
50°	6779	4168	7079	3957
55°	5826	3682	6250	3494
60°	4859	3232	5300	3046
65°	3942	2858	4337	2648
70°	3089	2536	3460	2345
75°	2370	2341	2668	2154
80°	1642	2258	1938	2064
85°	919	2271	1244	2089

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 7837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.7
10°-20°	161.8	10.7
20°-30°	239.8	15.9
30°-40°	266.4	17.7
40°-50°	241.5	16.0
50°-60°	187.1	12.4
60°-70°	127.1	8.4
70°-80°	80.8	5.4
80°-90°	51.7	3.4
90°-100°	34.8	2.3
100°-110°	23.9	1.6
110°-120°	15.9	1.1
120°-130°	9.9	0.7
130°-140°	5.5	0.4
140°-150°	2.6	0.2
150°-160°	0.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	457.9	30.4
0°-40°	724.3	48.1
0°-60°	1152.9	76.6
0°-90°	1412.4	93.8
90°-120°	74.6	5.0
90°-150°	92.6	6.1
90°-180°	94.0	6.2
0°-180°	1506.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	595	595	595	595	595	
5°	599	593	599	590	599	57
15°	577	578	580	563	577	163
25°	532	522	538	492	532	245
35°	458	399	467	372	458	286
45°	353	285	364	269	353	271
55°	225	201	242	190	225	203
65°	117	135	129	125	117	117
75°	47	90	53	83	47	50
85°	8	65	12	60	8	10
90°	0	56	1	51	0	0
95°	0	48	0	44	0	0
105°	0	35	0	33	0	0
115°	0	26	0	24	0	0
125°	0	20	0	17	0	0
135°	0	14	0	11	0	0
145°	0	9	0	6	0	0
155°	0	5	0	2	0	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°	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	600.0	599.3	598.7	597.7	598.7	601.3	599.7	596.1	595.4	589.5	592.1
5°	598.7	597.7	597.0	596.1	597.4	600.6	599.0	595.7	594.8	589.2	592.1
7.5°	595.4	594.8	593.8	593.8	595.1	598.4	597.0	593.4	592.8	587.2	590.5
10°	590.8	590.5	589.8	589.8	591.2	595.1	593.4	590.2	589.5	584.3	587.9
12.5°	584.9	585.3	584.3	584.3	586.2	590.2	588.9	585.3	584.6	580.0	583.6
15°	577.4	577.7	577.1	577.4	579.4	584.0	582.3	579.0	578.4	574.8	577.7
17.5°	568.9	569.2	569.2	568.9	571.2	575.8	574.5	571.5	570.5	567.6	571.2
20°	559.1	559.1	559.1	559.1	561.7	566.3	564.6	562.4	560.4	558.1	561.0
22.5°	547.0	546.6	547.0	547.9	550.6	554.2	553.2	550.6	547.6	546.3	548.6
25°	532.2	533.2	533.5	534.5	537.8	540.7	539.8	537.1	532.6	531.6	532.2
27.5°	516.9	517.5	518.5	518.2	522.7	525.7	523.7	521.4	514.9	513.9	513.3
30°	499.5	500.5	501.1	500.8	504.4	507.7	505.7	502.8	493.9	493.3	488.0
32.5°	479.9	480.8	481.5	481.5	486.7	488.0	484.4	480.2	470.7	468.4	463.8
35°	458.3	459.2	459.6	459.6	464.8	464.5	459.9	454.0	443.5	440.6	432.7
37.5°	435.0	435.7	436.0	438.0	440.3	438.3	432.4	424.9	417.0	408.8	400.3
40°	408.8	409.8	410.5	411.8	414.1	411.8	403.3	394.1	385.6	376.4	367.9
42.5°	382.0	384.9	384.3	384.0	385.3	379.0	372.5	362.0	353.5	344.0	335.5
45°	352.9	352.5	354.2	354.8	354.5	349.3	340.1	330.6	322.1	312.3	305.1
47.5°	322.1	321.8	323.1	323.7	321.8	316.2	309.0	298.2	291.0	282.5	276.9
50°	289.7	289.7	291.6	289.7	288.7	283.1	277.2	266.4	260.9	253.4	250.1
52.5°	257.3	260.2	258.3	257.6	256.6	251.1	246.5	237.6	233.1	229.8	225.9
55°	225.2	228.5	227.2	226.2	225.9	221.3	217.0	210.5	207.5	205.2	202.9
57.5°	198.0	197.7	197.1	196.1	196.4	192.8	188.5	184.9	183.6	182.6	183.3
60°	166.6	169.2	168.2	168.6	168.9	168.2	164.6	162.4	162.7	163.0	164.0
62.5°	140.8	143.0	144.7	143.4	144.0	145.0	143.0	142.4	143.7	145.0	146.3
65°	116.9	119.1	120.8	120.5	122.4	124.4	124.1	124.7	127.7	129.3	130.9
67.5°	95.3	97.5	99.8	100.2	103.1	106.1	107.4	109.7	112.9	115.2	117.2
70°	76.6	78.6	81.2	82.8	86.7	90.7	93.0	97.5	99.5	102.8	104.1
72.5°	59.9	61.5	65.1	69.1	72.3	77.2	81.8	85.8	88.7	92.3	93.9
75°	46.8	47.5	51.4	56.0	60.6	66.1	71.0	75.3	79.2	82.8	85.4
77.5°	34.4	35.4	39.0	45.2	50.4	56.3	61.9	66.4	70.7	74.3	77.9
80°	23.9	25.9	29.8	36.0	41.9	48.4	53.7	58.9	63.5	67.1	70.7
82.5°	15.4	17.0	22.6	28.8	35.0	41.6	47.1	52.4	57.3	61.2	64.5
85°	8.5	10.8	16.4	22.9	29.1	35.7	41.6	46.8	51.7	55.3	58.6
87.5°	3.3	6.5	11.8	18.0	24.2	30.4	36.7	41.6	46.5	50.4	53.4
90°	0.0	3.9	8.8	15.1	21.3	27.5	33.4	38.6	43.2	46.8	50.1
92.5°	0.3	2.6	6.9	12.1	18.0	23.9	29.5	34.7	39.3	42.9	45.8
95°	0.3	2.0	5.6	10.5	15.7	21.3	26.5	31.4	35.7	39.3	42.2
97.5°	0.3	1.3	4.6	9.2	13.7	19.3	24.2	28.8	32.7	36.3	38.6
100°	0.3	1.3	3.9	7.9	12.4	17.3	21.9	26.5	30.1	33.1	35.7
102.5°	0.3	1.0	3.3	6.9	11.1	15.4	20.0	24.2	27.5	30.4	33.1
105°	0.3	1.0	2.9	5.9	9.8	14.1	18.0	21.9	25.5	28.2	30.4
107.5°	0.3	0.7	2.6	4.9	8.5	12.8	16.7	20.0	23.2	25.9	28.2
110°	0.3	0.7	2.3	4.6	7.5	11.5	15.1	18.3	21.3	23.9	25.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.3	0.7	2.0	4.3	6.9	10.1	13.7	16.7	19.6	21.9	23.9
115°	0.3	0.7	2.0	3.9	6.2	8.8	12.1	15.4	17.7	20.3	21.9
117.5°	0.3	0.7	1.6	3.3	5.9	8.2	11.1	13.7	16.4	18.7	20.3
120°	0.3	0.7	1.6	2.9	5.2	7.5	9.8	12.4	15.1	16.7	18.3
122.5°	0.3	0.7	1.3	2.9	4.6	6.9	8.8	11.1	13.4	15.4	17.0
125°	0.3	0.7	1.3	2.6	4.3	6.2	8.2	9.8	12.1	13.7	15.4
127.5°	0.3	0.7	1.3	2.3	3.9	5.6	7.5	9.2	10.8	12.4	13.7
130°	0.3	0.7	1.0	2.0	3.6	4.9	6.5	8.5	9.8	11.1	12.4
132.5°	0.3	0.7	1.0	2.0	2.9	4.3	5.9	7.5	8.8	10.1	11.1
135°	0.3	0.7	1.0	1.6	2.6	3.9	4.9	6.5	7.9	9.2	10.1
137.5°	0.3	0.7	1.0	1.6	2.3	3.3	4.3	5.6	6.9	7.9	9.2
140°	0.3	0.7	1.0	1.3	2.0	2.9	3.9	4.6	5.9	6.9	7.9
142.5°	0.3	0.7	1.0	1.3	2.0	2.6	3.3	3.9	4.9	5.9	6.9
145°	0.3	0.7	1.0	1.3	1.6	2.3	2.9	3.6	3.9	4.9	5.6
147.5°	0.3	0.7	1.0	1.3	1.3	2.0	2.6	2.9	3.6	3.9	4.6
150°	0.3	0.7	1.0	1.0	1.3	1.6	2.3	2.6	2.9	3.6	3.9
152.5°	0.3	0.7	1.0	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.3
155°	0.3	0.7	1.0	1.0	1.0	1.3	1.6	2.0	2.3	2.6	2.9
157.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.6	2.0	2.0	2.3
160°	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.6	1.6	2.0
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°	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	591.5	592.5	595.4	595.4	594.8	594.1	594.1	593.1	593.8	595.1	594.4
5°	591.5	592.5	595.4	595.4	594.8	594.1	593.8	592.8	593.8	595.1	594.4
7.5°	589.5	590.8	593.8	593.8	593.1	592.8	592.1	591.5	592.5	593.8	593.1
10°	586.9	588.2	591.2	591.2	590.5	590.5	589.5	588.9	590.2	591.2	590.8
12.5°	583.0	584.6	587.2	586.9	586.2	586.6	585.6	584.3	585.6	586.6	586.9
15°	577.4	579.4	582.0	581.3	580.4	581.0	579.4	578.4	579.4	581.3	581.0
17.5°	570.2	571.5	573.5	573.5	572.5	571.8	571.2	570.2	570.9	572.2	572.5
20°	560.1	561.7	562.7	561.7	561.4	560.4	559.1	558.1	559.4	561.4	561.7
22.5°	546.6	547.0	549.3	547.0	545.3	545.0	543.7	541.7	543.7	545.3	545.7
25°	529.9	531.6	530.6	526.7	526.7	524.1	523.4	522.4	522.7	525.7	527.0
27.5°	508.7	509.3	506.7	503.4	500.5	498.8	496.6	496.9	496.9	500.8	502.1
30°	485.4	481.8	479.5	474.3	472.0	468.1	467.4	467.4	466.8	468.7	474.6
32.5°	457.6	452.7	449.1	444.2	440.3	436.3	434.4	435.3	435.0	439.9	441.9
35°	427.2	424.2	416.7	410.5	408.2	402.3	402.3	399.3	401.3	406.9	409.2
37.5°	395.1	390.5	384.3	377.4	375.8	371.2	369.6	367.9	372.2	373.2	375.4
40°	362.4	358.1	352.2	345.7	345.7	340.1	340.1	340.1	340.4	342.4	346.6
42.5°	331.3	326.7	321.4	316.9	316.2	311.9	311.9	311.6	312.3	313.9	317.8
45°	301.1	297.5	292.0	289.7	290.0	285.4	286.4	285.4	286.7	288.4	289.7
47.5°	273.3	271.0	268.7	265.5	264.5	264.2	262.5	261.2	263.5	263.5	265.5
50°	247.5	246.2	244.8	242.9	243.2	241.9	239.9	239.9	241.6	241.9	243.2
52.5°	224.9	223.2	221.6	221.9	222.3	221.6	220.6	219.6	220.6	221.3	222.9
55°	202.3	201.0	202.6	202.0	202.6	202.0	201.3	200.7	202.3	201.3	202.9
57.5°	182.0	183.3	184.0	182.6	183.6	183.0	183.3	182.3	183.6	184.3	184.0
60°	163.3	165.3	164.3	164.6	166.0	165.3	164.0	165.0	166.3	166.6	166.3
62.5°	146.3	148.6	149.6	148.9	149.3	148.6	149.6	148.3	149.9	150.6	149.6
65°	130.9	133.6	134.2	134.2	134.2	133.6	134.5	134.9	135.5	135.5	134.9
67.5°	117.8	120.1	120.8	121.4	120.8	120.1	120.1	120.5	121.8	122.4	121.8
70°	106.1	108.3	108.7	108.7	109.0	109.7	108.3	109.0	110.0	110.3	110.0
72.5°	95.9	98.2	98.9	98.5	98.9	99.2	99.2	98.5	99.5	100.2	100.2
75°	87.7	89.0	89.7	89.7	90.0	90.3	90.3	90.0	90.7	91.0	91.3
77.5°	80.2	81.2	82.2	82.2	82.5	82.2	82.8	82.8	83.1	83.5	83.8
80°	72.7	74.0	74.6	75.0	75.6	75.9	75.9	75.9	76.3	76.6	76.6
82.5°	66.8	67.8	68.7	69.7	69.7	70.0	70.0	70.0	70.4	70.4	70.7
85°	60.9	62.2	63.2	63.8	64.2	64.5	64.5	64.8	64.8	64.8	65.1
87.5°	55.6	57.3	57.9	58.6	58.9	59.6	59.6	59.6	59.9	59.9	59.9
90°	52.0	53.7	54.3	55.0	55.3	55.6	55.6	56.0	56.0	56.3	56.3
92.5°	47.8	49.4	50.7	50.7	51.1	51.7	51.4	51.4	51.7	52.0	52.0
95°	44.5	45.8	46.8	47.1	47.5	47.5	47.5	47.8	47.5	47.8	47.8
97.5°	40.6	41.9	42.9	43.5	43.9	43.9	43.9	44.2	43.9	44.2	44.2
100°	37.3	38.6	39.6	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.9
102.5°	34.7	36.0	36.7	37.0	37.3	37.6	37.6	37.6	37.6	38.0	38.0
105°	32.1	33.4	34.0	34.4	34.7	35.0	35.0	35.0	35.4	35.4	35.0
107.5°	29.8	30.8	31.4	32.1	32.4	32.4	32.7	32.7	32.7	32.7	32.7
110°	27.5	28.5	29.5	30.1	30.1	30.4	30.4	30.8	30.8	30.4	30.8



TEST NUMBER: P1212966

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	25.2	26.5	27.2	27.8	28.2	28.5	28.5	28.5	28.5	28.5	28.5
115°	23.2	24.5	25.2	25.9	26.2	26.5	26.5	26.5	26.5	26.5	26.5
117.5°	21.6	22.9	23.6	23.9	24.2	24.5	24.9	24.9	24.9	24.9	24.5
120°	20.0	20.9	21.6	22.3	22.6	22.9	22.9	22.9	22.9	22.9	22.9
122.5°	18.3	19.3	20.0	20.6	20.9	21.3	21.3	21.3	21.3	21.3	21.3
125°	16.7	17.7	18.3	19.0	19.3	19.6	19.6	19.6	19.6	19.6	19.6
127.5°	15.1	16.0	17.0	17.3	17.7	18.0	18.0	18.0	18.3	18.0	18.0
130°	13.4	14.4	15.4	15.7	16.0	16.4	16.7	16.7	16.7	16.7	16.4
132.5°	12.1	13.1	13.7	14.1	14.7	14.7	15.1	15.1	15.1	15.1	14.7
135°	11.1	11.8	12.4	12.8	13.4	13.4	13.4	13.7	13.7	13.4	13.1
137.5°	9.8	10.5	11.1	11.5	11.8	12.1	12.1	12.4	12.1	12.1	12.1
140°	9.2	9.5	10.1	10.5	10.8	10.8	10.8	11.1	11.1	10.8	10.8
142.5°	7.9	8.5	9.2	9.5	9.8	9.8	9.8	9.8	9.8	9.8	9.8
145°	6.5	7.5	7.9	8.5	8.5	8.8	8.8	8.8	8.8	8.8	8.5
147.5°	5.6	6.2	7.2	7.5	7.5	7.9	7.9	7.9	7.9	7.9	7.5
150°	4.3	4.9	5.9	6.5	6.5	6.9	6.9	6.9	6.9	6.5	6.5
152.5°	3.6	4.3	4.6	5.2	5.6	5.6	5.6	5.9	5.6	5.6	5.6
155°	3.3	3.6	3.9	4.3	4.6	4.9	4.9	4.9	4.9	4.6	4.6
157.5°	2.6	2.9	3.3	3.6	3.9	4.3	4.3	4.3	4.3	4.3	3.9
160°	2.0	2.3	2.6	2.6	2.9	3.3	3.6	3.3	3.3	3.3	3.3
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: P1212966

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	593.8	593.4	594.4	592.8	587.9	589.2	588.5	591.5	592.1	592.8	595.7
5°	593.8	593.4	594.1	592.8	587.6	588.5	587.9	590.8	591.5	591.8	594.8
7.5°	592.5	592.1	593.1	591.5	585.9	587.2	586.2	589.2	589.5	589.8	592.5
10°	589.8	589.5	590.2	588.9	583.3	584.6	583.3	586.2	586.2	586.9	588.9
12.5°	585.9	585.3	586.6	584.9	578.7	580.4	579.7	581.7	582.0	582.3	584.3
15°	580.4	579.7	580.7	579.7	574.1	574.5	573.5	576.4	576.8	576.1	578.1
17.5°	572.2	571.5	573.5	572.8	567.3	568.6	568.2	568.9	569.9	568.2	570.9
20°	562.0	562.7	563.3	563.7	559.4	559.4	559.1	560.4	561.4	560.1	562.0
22.5°	547.0	548.6	550.6	551.2	548.3	547.9	549.9	549.3	550.2	549.6	550.9
25°	528.0	531.3	533.2	535.2	533.5	534.2	537.1	537.8	537.8	537.5	538.8
27.5°	504.4	508.7	512.3	516.5	514.9	516.2	521.1	521.8	523.1	521.8	524.4
30°	476.3	480.2	487.1	493.3	493.9	495.9	502.8	503.4	507.0	505.7	506.7
32.5°	448.1	450.1	457.9	464.2	468.1	473.0	480.5	481.8	486.7	487.7	487.7
35°	412.8	418.3	425.5	434.4	439.3	444.5	454.7	456.6	463.8	466.1	468.7
37.5°	383.0	388.2	392.8	402.0	410.8	416.7	424.9	429.8	437.3	441.6	444.8
40°	351.2	355.5	360.4	369.6	377.1	385.9	394.1	400.0	409.5	414.4	418.7
42.5°	321.1	324.4	329.6	336.2	344.0	353.8	361.7	368.6	378.7	385.6	390.5
45°	294.3	296.2	300.8	305.7	312.6	322.7	330.3	339.1	347.3	354.5	360.4
47.5°	269.1	271.7	274.0	277.2	283.5	289.7	298.5	307.0	315.2	323.1	329.0
50°	245.8	245.8	249.4	251.7	256.0	261.5	268.4	274.3	284.4	290.0	297.5
52.5°	223.2	224.5	226.5	227.8	231.1	234.7	240.3	245.2	253.7	258.9	266.1
55°	203.3	204.6	205.6	206.2	208.2	212.4	214.4	218.3	224.2	228.5	234.7
57.5°	184.3	184.9	185.9	186.3	186.6	189.2	190.8	191.8	197.7	202.0	207.2
60°	166.9	166.9	167.9	167.6	167.3	168.6	168.2	169.2	172.8	175.4	177.7
62.5°	150.6	150.6	150.9	150.2	149.9	149.9	148.6	149.6	150.6	150.9	152.5
65°	135.5	137.2	135.8	136.2	134.2	133.6	132.9	130.9	130.6	129.3	129.9
67.5°	122.1	123.4	122.1	122.1	120.5	119.1	117.5	114.2	113.3	110.6	110.0
70°	111.3	110.3	111.0	110.0	108.0	106.4	104.1	101.5	98.2	94.9	92.6
72.5°	100.8	100.8	100.2	99.2	98.2	94.9	92.3	89.4	85.4	81.2	77.9
75°	90.7	91.0	91.0	90.0	88.4	85.4	82.5	78.2	74.0	69.1	64.8
77.5°	83.5	83.5	83.5	81.8	80.2	77.6	74.0	69.4	64.8	58.9	54.0
80°	76.6	76.3	76.3	74.3	72.7	69.7	66.1	61.5	56.6	50.4	44.8
82.5°	71.0	70.7	70.0	68.4	66.1	63.2	59.6	54.7	49.4	43.9	37.0
85°	65.1	64.8	64.2	62.5	60.2	57.6	53.7	48.8	43.5	37.3	30.8
87.5°	59.9	59.6	58.6	57.6	55.0	52.0	48.1	43.5	38.0	32.1	25.5
90°	56.3	55.6	55.0	53.7	51.4	48.1	44.2	39.3	33.7	27.8	21.3
92.5°	52.0	51.7	50.7	49.4	47.5	44.2	40.3	35.7	30.1	24.5	18.3
95°	47.8	47.5	46.8	45.5	43.5	40.6	37.0	32.4	27.2	21.6	16.0
97.5°	43.9	43.9	42.9	41.9	39.6	37.3	33.7	29.5	24.5	19.6	14.4
100°	40.6	40.6	39.6	38.3	36.7	34.4	30.8	26.8	22.3	17.7	12.4
102.5°	37.6	37.3	36.7	35.4	33.7	31.4	28.2	24.5	20.3	15.7	11.1
105°	35.0	34.7	34.0	32.7	31.4	28.8	26.2	22.6	18.3	14.1	9.8
107.5°	32.4	32.1	31.8	30.4	28.8	26.5	23.9	20.3	16.7	12.8	8.8
110°	30.1	29.8	29.1	27.8	26.2	24.2	21.6	18.7	15.1	11.5	7.9

TEST NUMBER: P1212966

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	28.2	27.8	27.2	25.9	24.5	22.3	20.0	16.7	13.7	10.5	6.9
115°	26.2	25.9	25.2	23.9	22.3	20.3	18.0	15.4	12.1	9.2	6.2
117.5°	24.2	23.9	23.2	22.3	20.6	18.7	16.4	13.7	10.8	8.5	5.6
120°	22.6	21.9	21.3	20.3	18.7	17.0	14.7	12.4	9.8	7.5	4.9
122.5°	20.9	20.3	19.6	18.7	17.0	15.4	13.1	11.1	9.2	6.9	4.6
125°	19.0	18.7	18.0	17.0	15.4	13.7	12.1	10.1	8.2	6.2	3.9
127.5°	17.3	17.0	16.4	15.1	13.7	12.4	10.8	9.2	7.2	5.2	3.6
130°	16.0	15.4	14.7	13.7	12.8	11.5	9.8	8.2	6.5	4.6	3.3
132.5°	14.4	13.7	13.1	12.4	11.5	10.1	8.8	7.2	5.9	4.3	2.9
135°	13.1	12.4	11.8	11.1	10.1	9.2	7.9	6.5	5.2	3.9	2.6
137.5°	11.5	11.1	10.8	10.1	9.2	8.2	7.2	5.6	4.6	3.6	2.3
140°	10.5	10.1	9.8	8.8	8.2	7.2	6.2	4.9	3.9	2.9	2.0
142.5°	9.5	9.2	8.5	7.9	7.2	6.5	5.2	4.6	3.6	2.6	2.0
145°	8.2	7.9	7.5	6.9	6.2	5.2	4.6	3.9	3.3	2.3	1.6
147.5°	7.5	7.2	6.5	5.9	5.2	4.6	4.3	3.6	2.6	2.0	1.3
150°	6.2	5.9	5.6	4.9	4.6	4.3	3.6	2.9	2.3	1.6	1.3
152.5°	5.2	4.9	4.6	4.6	3.9	3.6	2.9	2.6	2.0	1.6	1.0
155°	4.6	4.6	4.3	3.9	3.3	2.9	2.6	2.0	1.6	1.3	1.0
157.5°	3.9	3.6	3.3	3.3	2.9	2.6	2.0	1.6	1.3	1.3	1.0
160°	3.3	2.9	2.9	2.6	2.3	2.0	1.6	1.6	1.3	1.0	1.0
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: P1212966

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	596.1	592.5	595.7	600.0	600.0	599.3	598.7	600.0	603.3	602.0	598.0
5°	595.1	591.5	594.4	598.7	598.7	597.7	597.0	598.0	601.6	600.0	596.4
7.5°	593.1	589.8	591.8	595.7	595.7	594.8	594.1	595.4	598.4	596.7	592.8
10°	589.5	585.9	588.2	591.8	591.5	590.8	589.8	591.5	594.1	591.8	587.2
12.5°	584.9	581.3	583.3	586.6	586.2	584.9	584.3	585.3	587.6	586.2	581.3
15°	578.7	575.1	576.8	580.0	579.0	578.1	576.8	577.1	580.0	577.7	572.5
17.5°	571.2	567.3	568.6	571.5	570.5	569.6	567.9	568.2	571.5	568.2	562.7
20°	562.0	557.8	558.8	562.4	560.7	559.1	557.4	557.4	560.7	557.1	550.9
22.5°	552.2	547.9	548.6	551.2	549.9	547.0	545.3	546.3	547.9	543.4	536.8
25°	540.1	534.5	535.5	538.1	537.1	533.2	531.6	532.2	531.6	528.0	521.1
27.5°	526.0	520.1	520.8	522.4	521.1	517.5	515.5	515.9	514.6	510.0	502.1
30°	508.3	505.4	505.1	506.1	504.1	500.5	498.2	497.5	497.2	490.7	481.2
32.5°	490.3	487.7	486.1	487.4	485.1	481.5	477.6	477.6	474.3	468.1	459.9
35°	472.0	467.8	466.1	467.1	464.5	459.9	456.6	455.0	450.1	442.2	433.4
37.5°	448.4	445.5	443.5	444.5	441.6	438.3	432.1	430.4	425.2	414.4	403.3
40°	422.9	420.6	418.7	419.6	416.4	411.5	405.9	403.3	397.4	385.3	376.4
42.5°	395.4	394.4	392.1	395.7	389.2	384.3	378.7	374.5	368.6	355.5	345.3
45°	366.3	368.6	363.3	364.3	360.1	355.8	349.9	343.7	337.8	325.4	313.9
47.5°	335.5	337.1	333.5	334.2	329.6	325.7	320.5	312.6	306.1	295.3	285.1
50°	303.8	303.1	303.1	302.5	298.9	293.9	288.7	281.5	275.0	265.1	256.6
52.5°	270.0	271.4	272.0	273.6	269.1	266.1	257.9	251.7	246.8	236.7	229.5
55°	237.6	242.2	240.9	241.6	236.3	234.0	227.5	222.6	215.4	209.5	204.9
57.5°	208.2	209.2	209.8	210.8	208.5	203.9	198.7	194.8	189.2	184.3	181.0
60°	179.7	179.7	180.0	181.7	179.4	175.4	171.5	168.6	164.6	161.7	159.7
62.5°	152.9	155.2	155.5	154.2	151.2	149.3	146.6	145.0	142.4	141.4	140.8
65°	128.0	128.0	128.0	128.6	127.0	125.7	124.1	123.7	124.7	123.4	124.1
67.5°	107.0	106.1	105.4	105.7	105.1	104.4	104.1	105.1	107.0	107.0	108.7
70°	89.0	87.1	85.8	85.8	85.8	86.1	87.1	89.0	92.3	93.6	95.9
72.5°	74.3	70.0	68.1	68.1	68.4	69.7	72.7	76.3	79.2	81.8	84.8
75°	60.2	56.0	53.0	52.7	53.4	55.3	59.6	62.8	67.8	71.4	75.0
77.5°	48.8	43.5	39.9	39.6	40.6	43.5	48.8	53.0	58.6	62.5	66.4
80°	39.0	33.1	30.1	28.2	29.8	33.4	39.3	44.5	49.8	55.0	59.9
82.5°	31.1	25.5	20.9	19.0	20.9	25.9	31.4	37.6	42.9	48.4	53.4
85°	24.5	18.7	13.4	11.5	13.7	19.0	25.2	31.4	37.3	42.9	47.8
87.5°	19.3	13.4	8.2	5.6	8.5	14.1	20.0	26.2	32.4	38.0	42.9
90°	15.1	9.5	4.6	0.7	4.9	10.1	16.0	21.9	28.2	33.7	38.6
92.5°	12.8	7.2	2.6	0.0	2.9	7.5	13.1	19.0	24.5	30.1	35.0
95°	10.8	5.9	2.0	0.0	2.0	5.9	10.8	16.0	21.6	27.2	32.1
97.5°	9.2	4.6	1.3	0.0	1.3	4.6	8.8	14.1	19.0	24.2	28.8
100°	7.9	3.9	1.0	0.0	1.0	3.6	7.5	12.1	17.0	21.9	26.2
102.5°	6.9	3.3	0.7	0.0	0.7	2.9	6.2	10.5	14.7	19.3	23.6
105°	5.9	2.6	0.7	0.0	0.3	2.3	5.2	9.2	13.1	17.3	21.3
107.5°	5.2	2.3	0.7	0.0	0.3	2.0	4.6	7.9	11.8	15.4	19.0
110°	4.6	2.0	0.7	0.0	0.3	1.3	3.9	6.9	10.1	13.7	17.3

TEST NUMBER: P1212966

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	3.9	1.6	0.3	0.0	0.0	1.0	3.3	5.9	8.8	12.4	15.4
115°	3.6	1.6	0.3	0.0	0.0	0.7	2.6	5.2	7.9	11.1	13.7
117.5°	3.3	1.3	0.3	0.0	0.3	0.7	2.3	4.6	6.9	9.5	12.4
120°	2.9	1.3	0.3	0.0	0.3	0.3	1.6	3.9	5.9	8.5	10.8
122.5°	2.6	1.3	0.3	0.0	0.3	0.3	1.3	3.3	5.2	7.5	9.5
125°	2.3	1.0	0.7	0.3	0.3	0.3	1.0	2.6	4.6	6.2	8.5
127.5°	2.3	1.0	0.7	0.3	0.3	0.3	0.7	2.3	3.6	5.6	7.5
130°	2.0	1.0	0.7	0.3	0.3	0.3	0.3	1.6	3.3	4.6	6.2
132.5°	1.6	1.0	0.7	0.3	0.3	0.3	0.3	1.0	2.3	3.9	5.2
135°	1.6	1.0	0.7	0.3	0.3	0.3	0.3	0.7	1.6	2.9	4.3
137.5°	1.3	0.7	0.7	0.3	0.3	0.3	0.3	0.3	1.3	2.3	3.3
140°	1.3	0.7	0.7	0.3	0.3	0.3	0.3	0.3	1.0	1.6	2.6
142.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.3	2.0
145°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.3
147.5°	1.0	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
150°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
152.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
155°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
157.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
160°	1.0	0.7	0.7	0.3	0.7	0.3	0.7	0.7	0.7	0.7	0.7
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: P1212966

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	596.7	590.5	593.8	592.8	594.1	596.7	596.4	595.7	595.7	594.8	593.4
5°	594.8	588.9	591.8	590.2	591.8	594.1	593.8	592.8	593.4	591.8	590.2
7.5°	590.8	585.6	588.2	586.9	588.2	590.5	589.5	589.2	589.8	587.2	586.2
10°	586.2	580.4	583.3	581.7	583.3	584.9	584.3	583.0	584.3	581.7	580.7
12.5°	579.0	574.1	576.1	575.4	576.4	578.1	576.8	575.8	576.4	574.1	572.2
15°	571.2	566.3	567.9	566.9	567.6	569.6	567.3	566.9	566.3	564.0	563.3
17.5°	561.0	556.5	558.1	556.5	557.4	556.8	556.5	554.8	554.8	552.2	550.2
20°	548.6	544.7	543.7	542.4	543.7	542.4	540.4	539.1	538.8	536.2	534.5
22.5°	534.2	529.6	530.3	526.7	527.0	525.0	521.8	520.5	519.1	516.2	513.9
25°	516.9	512.3	509.0	506.7	503.8	503.4	499.2	495.9	495.6	492.0	491.6
27.5°	497.2	492.0	489.4	483.8	480.2	477.2	473.6	470.4	468.7	464.8	462.2
30°	474.6	468.7	462.2	458.3	452.7	450.4	444.2	440.3	438.9	434.7	432.7
32.5°	449.1	442.9	437.6	430.1	423.9	420.6	414.4	410.5	408.8	404.3	401.6
35°	421.3	414.4	408.2	401.0	396.1	390.5	383.0	379.0	375.4	373.8	371.8
37.5°	392.1	384.6	377.4	370.2	366.0	359.4	352.9	350.2	346.0	344.3	342.4
40°	362.0	354.5	347.6	340.7	335.8	329.9	324.1	323.1	318.5	316.9	315.5
42.5°	332.2	324.4	316.5	311.6	308.0	302.1	298.2	297.2	293.3	292.3	292.3
45°	305.4	295.6	289.0	284.8	281.8	276.9	273.6	273.0	269.7	269.1	269.1
47.5°	276.6	267.4	262.5	259.9	257.3	253.7	251.7	251.7	248.4	247.8	247.5
50°	249.8	241.2	237.6	235.0	234.7	232.1	230.4	229.8	229.8	227.5	227.8
52.5°	224.2	220.0	217.0	215.4	213.4	211.8	210.5	210.5	209.5	207.9	208.5
55°	200.7	195.7	196.1	194.8	193.8	192.8	193.1	191.2	190.8	189.5	190.5
57.5°	177.1	177.1	176.4	175.4	173.8	174.5	174.5	174.5	172.8	171.8	172.8
60°	157.1	158.1	156.5	157.4	156.8	157.1	156.5	156.5	155.5	155.2	155.5
62.5°	139.4	141.1	140.4	141.7	141.1	141.4	142.1	140.8	140.1	139.4	140.1
65°	123.7	125.7	125.4	126.3	126.7	127.0	127.3	126.7	126.0	125.4	125.0
67.5°	110.0	111.9	113.3	113.6	113.9	114.9	114.6	113.9	113.3	112.3	111.9
70°	97.5	100.2	101.8	102.5	103.8	103.1	103.1	102.8	102.1	101.1	100.8
72.5°	87.1	90.0	91.7	92.3	93.6	93.6	93.3	93.0	92.3	91.3	91.0
75°	77.9	80.5	82.8	84.1	85.1	85.1	84.8	84.5	83.8	83.1	82.8
77.5°	70.7	73.0	75.0	76.6	77.2	77.6	77.2	76.6	76.6	76.3	75.9
80°	63.5	66.1	68.1	69.7	70.7	70.7	70.4	70.7	70.0	69.7	69.4
82.5°	57.3	60.2	62.5	64.2	64.8	65.1	64.8	65.1	64.5	64.5	64.5
85°	51.7	54.7	57.3	58.6	59.6	59.9	59.9	59.9	59.6	59.6	59.6
87.5°	47.1	50.1	52.7	54.0	55.0	55.3	55.3	55.6	55.0	55.0	55.0
90°	42.9	45.8	48.4	49.8	50.7	51.4	51.4	51.7	51.4	51.1	51.1
92.5°	39.0	42.2	44.8	46.2	47.1	48.1	48.1	48.4	47.8	47.8	47.8
95°	35.7	39.0	41.2	42.9	43.9	44.5	44.8	44.8	44.5	44.5	44.5
97.5°	32.7	35.7	38.0	39.6	40.6	40.9	41.2	41.6	41.2	41.2	41.2
100°	29.8	32.7	35.0	36.3	37.6	38.0	38.3	38.6	38.6	38.3	38.3
102.5°	27.2	30.1	32.1	33.7	34.7	35.4	35.7	35.7	35.7	35.7	35.7
105°	24.5	27.5	29.5	31.1	32.1	32.7	33.1	33.4	33.4	33.1	33.1
107.5°	22.3	24.9	27.2	28.5	29.8	30.4	30.8	30.8	31.1	30.8	30.8
110°	20.0	22.9	24.9	26.2	27.5	28.2	28.5	28.8	28.8	28.8	28.8

TEST NUMBER: P1212966

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	18.3	20.6	22.6	23.9	25.2	25.9	26.2	26.5	26.8	26.5	26.5
115°	16.4	18.7	20.6	21.9	22.9	23.6	24.2	24.5	24.5	24.9	24.5
117.5°	14.7	16.7	18.7	20.0	20.9	21.9	22.3	22.6	22.9	22.6	22.6
120°	13.1	15.1	16.7	18.0	19.0	20.0	20.3	20.6	20.9	20.6	20.6
122.5°	11.8	13.4	15.1	16.4	17.3	18.0	18.7	18.7	19.0	19.0	19.0
125°	10.5	12.1	13.4	14.7	15.7	16.4	16.7	17.0	17.0	17.3	17.3
127.5°	9.2	10.5	12.1	13.1	14.1	14.7	15.1	15.4	15.4	15.7	15.7
130°	7.9	9.2	10.5	11.5	12.4	13.1	13.4	13.7	14.1	14.1	14.1
132.5°	6.9	8.2	9.2	10.1	10.8	11.5	12.1	12.4	12.4	12.4	12.4
135°	5.6	6.9	7.9	8.8	9.5	10.1	10.5	11.1	11.1	11.1	11.1
137.5°	4.6	5.9	6.9	7.5	8.2	8.8	9.2	9.5	9.8	9.8	9.8
140°	3.6	4.6	5.6	6.5	7.2	7.5	8.2	8.2	8.5	8.5	8.5
142.5°	2.6	3.6	4.3	5.2	5.9	6.5	6.9	7.2	7.2	7.2	7.2
145°	2.0	2.6	3.3	3.9	4.9	5.2	5.6	5.9	6.2	6.2	6.2
147.5°	1.3	2.0	2.3	2.9	3.6	4.3	4.6	4.9	5.2	5.2	5.2
150°	1.0	1.3	2.0	2.3	2.6	3.3	3.9	3.9	4.3	4.3	3.9
152.5°	0.7	1.0	1.3	1.6	2.0	2.3	2.9	2.9	3.3	3.3	3.3
155°	0.7	0.7	0.7	1.0	1.3	1.6	2.0	2.3	2.3	2.3	2.3
157.5°	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.6	1.6	1.6	1.6
160°	0.7	0.7	0.3	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0
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: P1212966

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	594.4	595.1	595.1	594.4	594.1	595.4	593.8	587.6	589.5	590.2	592.1
5°	591.5	592.1	592.1	592.1	591.5	592.8	591.2	584.9	587.2	588.2	589.5
7.5°	587.2	587.6	588.2	587.9	587.2	589.2	587.6	581.3	583.0	584.6	586.2
10°	581.7	581.7	582.0	582.6	582.0	583.6	582.0	576.4	578.1	579.0	581.0
12.5°	574.1	574.8	575.1	574.8	574.5	575.8	575.1	569.9	570.5	572.5	574.5
15°	564.0	564.0	565.6	565.0	565.0	566.3	566.9	561.0	562.0	565.0	566.9
17.5°	551.5	551.9	553.2	553.8	553.5	555.8	556.1	551.5	551.2	554.8	556.8
20°	535.5	536.2	537.8	539.1	539.1	541.7	542.7	539.8	540.1	544.0	544.7
22.5°	515.9	515.9	518.8	520.8	522.4	524.1	527.0	524.4	524.4	529.6	532.6
25°	491.6	493.9	494.9	498.8	501.1	505.7	508.3	508.7	509.0	513.9	515.9
27.5°	464.8	465.5	468.4	473.0	475.6	479.9	484.8	485.8	487.4	493.9	496.9
30°	434.4	436.3	437.6	444.2	447.8	453.4	459.6	461.9	463.2	472.0	475.6
32.5°	403.3	403.9	409.5	413.1	417.3	423.2	430.4	434.7	437.3	446.5	451.7
35°	372.2	373.5	378.1	382.6	386.9	392.8	400.3	406.2	410.8	419.0	425.9
37.5°	343.7	347.0	348.0	352.5	355.8	361.7	366.9	375.4	380.0	388.5	397.4
40°	318.2	319.1	319.8	324.4	326.7	332.2	339.8	345.3	351.6	357.8	368.2
42.5°	293.0	293.6	294.6	297.2	299.8	303.8	309.3	314.9	321.4	330.6	337.5
45°	269.7	270.4	271.0	272.7	275.0	278.6	282.2	286.1	292.6	300.5	307.7
47.5°	248.1	249.4	249.4	249.8	251.4	254.3	257.0	261.9	265.5	269.7	277.9
50°	227.5	228.5	228.8	228.8	229.8	231.7	232.4	235.7	238.9	242.9	248.8
52.5°	208.2	208.2	207.9	209.2	209.2	210.5	210.8	212.8	215.1	219.3	221.9
55°	189.9	189.9	190.8	190.2	190.2	190.8	190.5	190.8	192.8	195.4	197.7
57.5°	172.2	171.8	172.8	172.2	171.8	172.5	173.2	171.8	172.2	174.8	174.8
60°	154.5	154.8	155.8	155.2	155.2	155.2	154.5	153.8	153.2	154.8	155.5
62.5°	140.4	139.4	140.4	139.4	140.1	139.8	139.1	137.8	138.1	137.5	136.8
65°	125.7	125.7	126.0	125.0	125.7	125.7	124.7	124.4	122.4	121.8	120.1
67.5°	112.9	112.9	113.3	112.6	112.6	112.9	111.9	111.0	109.0	108.0	105.7
70°	101.8	101.8	101.8	101.5	101.5	101.5	100.8	99.5	97.5	95.9	93.0
72.5°	91.7	92.0	91.7	91.7	92.6	91.7	90.7	89.4	87.7	84.5	81.8
75°	83.5	83.8	83.5	83.5	83.5	83.1	82.8	80.9	78.9	76.3	72.3
77.5°	76.3	76.3	76.6	76.3	76.3	75.9	75.0	73.3	71.0	68.7	64.2
80°	69.4	69.7	70.0	70.4	69.7	69.4	68.4	67.1	64.2	61.5	57.0
82.5°	64.5	64.2	64.5	64.8	64.2	63.8	62.8	61.2	58.9	55.3	50.7
85°	59.6	59.2	59.2	59.6	59.2	58.6	57.6	56.0	53.7	50.1	45.5
87.5°	54.7	55.0	55.3	55.0	54.7	54.0	53.0	51.4	48.8	45.8	40.9
90°	51.1	51.1	51.1	51.1	50.7	50.1	49.1	47.1	44.8	41.2	37.0
92.5°	47.8	47.8	47.8	47.8	47.5	46.5	45.5	43.9	41.2	37.6	33.7
95°	44.5	44.8	44.5	44.5	43.9	43.5	41.9	40.3	38.0	34.4	30.1
97.5°	40.9	41.2	40.9	40.9	40.6	39.9	39.0	37.0	34.7	31.4	27.5
100°	38.3	38.3	38.0	38.0	37.6	37.0	35.7	34.0	31.8	28.5	24.5
102.5°	35.4	35.7	35.4	35.4	34.7	34.0	33.1	31.4	29.1	25.9	22.3
105°	33.1	33.1	32.7	32.7	32.1	31.4	30.4	28.5	26.5	23.6	20.0
107.5°	30.8	30.8	30.4	30.4	29.8	29.1	27.8	26.2	24.2	21.3	18.0
110°	28.5	28.5	28.5	28.2	27.5	26.5	25.5	23.9	21.9	19.3	16.0

TEST NUMBER: P1212966

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	26.8	26.5	26.2	25.9	25.2	24.5	23.2	21.6	19.6	17.3	14.4
115°	24.5	24.5	24.2	23.9	23.2	22.3	21.3	20.0	18.0	15.4	12.8
117.5°	22.6	22.6	22.3	21.9	21.3	20.3	19.3	18.0	16.0	13.7	11.5
120°	20.6	20.6	20.3	20.0	19.3	18.3	17.7	16.0	14.4	12.1	10.1
122.5°	19.0	18.7	18.7	18.0	17.7	16.7	15.7	14.4	12.8	10.8	8.8
125°	17.0	17.0	16.7	16.4	16.0	15.1	14.1	12.8	11.1	9.5	7.9
127.5°	15.4	15.4	15.1	14.7	14.4	13.4	12.4	11.5	9.8	8.2	6.5
130°	13.7	13.7	13.4	13.1	12.8	11.8	11.1	9.8	8.5	7.2	5.6
132.5°	12.4	12.4	12.1	11.8	11.1	10.5	9.8	8.5	7.5	6.2	4.9
135°	11.1	10.8	10.8	10.5	9.8	9.2	8.5	7.5	6.2	5.2	3.9
137.5°	9.8	9.5	9.2	8.8	8.5	7.9	7.2	6.5	5.6	4.3	3.3
140°	8.5	8.2	8.2	7.9	7.2	6.9	6.2	5.2	4.6	3.6	2.6
142.5°	7.2	7.2	6.9	6.5	6.2	5.9	5.2	4.6	3.6	2.9	2.0
145°	6.2	5.9	5.9	5.6	5.2	4.6	4.3	3.6	2.9	2.3	1.6
147.5°	4.9	4.9	4.9	4.6	4.3	3.9	3.6	2.9	2.3	1.6	1.0
150°	3.9	3.9	3.9	3.6	3.3	2.9	2.6	2.3	1.6	1.0	0.7
152.5°	3.3	3.3	2.9	2.9	2.6	2.3	2.0	1.6	1.0	0.7	0.7
155°	2.3	2.3	2.3	2.0	2.0	1.6	1.3	1.0	0.7	0.7	0.7
157.5°	1.6	1.6	1.6	1.3	1.3	1.0	1.0	0.7	0.7	0.7	0.7
160°	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P1212966

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	595.1	595.1	595.1	595.1	595.1	595.1	595.1
2.5°	591.2	590.8	593.4	593.4	590.5	595.1	600.0
5°	589.2	588.9	591.5	591.5	588.9	593.4	598.7
7.5°	585.3	585.6	588.2	588.9	585.6	589.8	595.4
10°	581.0	580.7	583.6	584.3	581.7	585.6	590.8
12.5°	574.1	574.1	577.1	578.1	575.4	580.0	584.9
15°	566.9	566.9	568.9	570.5	568.2	572.5	577.4
17.5°	557.8	557.4	559.4	561.4	559.1	563.7	568.9
20°	546.0	546.0	548.3	550.6	548.9	553.2	559.1
22.5°	533.5	532.2	536.2	537.8	536.8	541.1	547.0
25°	517.8	517.5	521.4	523.7	522.4	527.0	532.2
27.5°	500.8	500.5	504.4	507.4	506.7	511.0	516.9
30°	480.2	481.8	485.4	490.3	488.7	493.3	499.5
32.5°	458.6	460.2	464.5	469.7	470.0	473.6	479.9
35°	432.7	437.0	439.9	446.8	448.1	451.7	458.3
37.5°	405.6	410.5	416.7	421.9	424.5	427.5	435.0
40°	375.1	382.3	389.2	395.4	398.7	401.6	408.8
42.5°	347.6	353.2	359.7	366.0	371.8	374.5	382.0
45°	316.5	323.1	329.0	336.5	342.4	345.3	352.9
47.5°	286.1	292.6	300.5	305.7	311.9	314.9	322.1
50°	257.0	262.8	269.4	275.6	280.8	283.5	289.7
52.5°	228.1	234.4	240.6	244.5	250.1	252.0	257.3
55°	202.6	206.9	212.4	214.7	220.3	221.6	225.2
57.5°	178.1	181.0	183.0	186.9	190.8	193.8	198.0
60°	155.8	157.1	158.4	160.7	164.0	165.0	166.6
62.5°	135.8	135.5	138.1	138.8	139.1	142.4	140.8
65°	118.2	118.5	116.2	115.2	116.5	117.5	116.9
67.5°	103.4	101.5	99.5	97.2	95.3	96.2	95.3
70°	89.0	87.4	84.1	80.9	79.5	77.6	76.6
72.5°	77.6	73.6	70.4	66.1	63.8	61.5	59.9
75°	68.7	63.2	58.6	54.0	50.7	47.5	46.8
77.5°	59.6	54.3	49.1	44.2	39.3	35.7	34.4
80°	52.4	47.5	41.2	35.4	30.1	25.5	23.9
82.5°	45.8	40.6	34.4	28.2	22.3	17.3	15.4
85°	40.3	34.7	28.5	22.3	16.4	11.1	8.5
87.5°	36.0	29.8	23.6	17.7	11.5	6.2	3.3
90°	32.1	26.2	20.3	14.1	8.2	3.3	0.0
92.5°	28.5	22.9	17.0	11.5	6.2	2.0	0.3
95°	25.2	20.3	14.4	9.2	4.6	1.3	0.3
97.5°	22.6	17.7	12.4	7.5	3.6	1.0	0.3
100°	20.3	15.4	10.8	6.2	2.9	0.7	0.3
102.5°	18.0	13.7	9.2	5.2	2.3	0.3	0.3
105°	16.0	12.1	7.9	4.6	2.0	0.3	0.3
107.5°	14.4	10.8	6.9	3.9	1.3	0.3	0.3
110°	12.8	9.2	5.9	3.3	1.0	0.3	0.3

TEST NUMBER: P1212966

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	11.5	8.2	5.2	2.6	0.7	0.3	0.3
115°	10.1	7.2	4.6	2.3	0.7	0.3	0.3
117.5°	8.8	6.2	3.9	1.6	0.3	0.3	0.3
120°	7.9	5.6	3.3	1.3	0.3	0.3	0.3
122.5°	6.9	4.6	2.6	1.0	0.3	0.3	0.3
125°	5.9	3.9	2.3	0.7	0.3	0.3	0.3
127.5°	4.9	3.3	1.6	0.7	0.3	0.3	0.3
130°	4.3	2.6	1.3	0.3	0.3	0.3	0.3
132.5°	3.6	2.0	1.0	0.3	0.3	0.3	0.3
135°	2.9	1.6	0.7	0.3	0.3	0.3	0.3
137.5°	2.3	1.3	0.7	0.3	0.3	0.3	0.3
140°	1.6	1.0	0.3	0.3	0.3	0.3	0.3
142.5°	1.3	0.7	0.3	0.3	0.3	0.3	0.3
145°	1.0	0.7	0.3	0.3	0.3	0.3	0.3
147.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3
150°	0.7	0.7	0.3	0.3	0.7	0.3	0.3
152.5°	0.7	0.3	0.3	0.3	0.7	0.3	0.3
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.3
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)