

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **2SNLED-LD5-22SL-LC-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

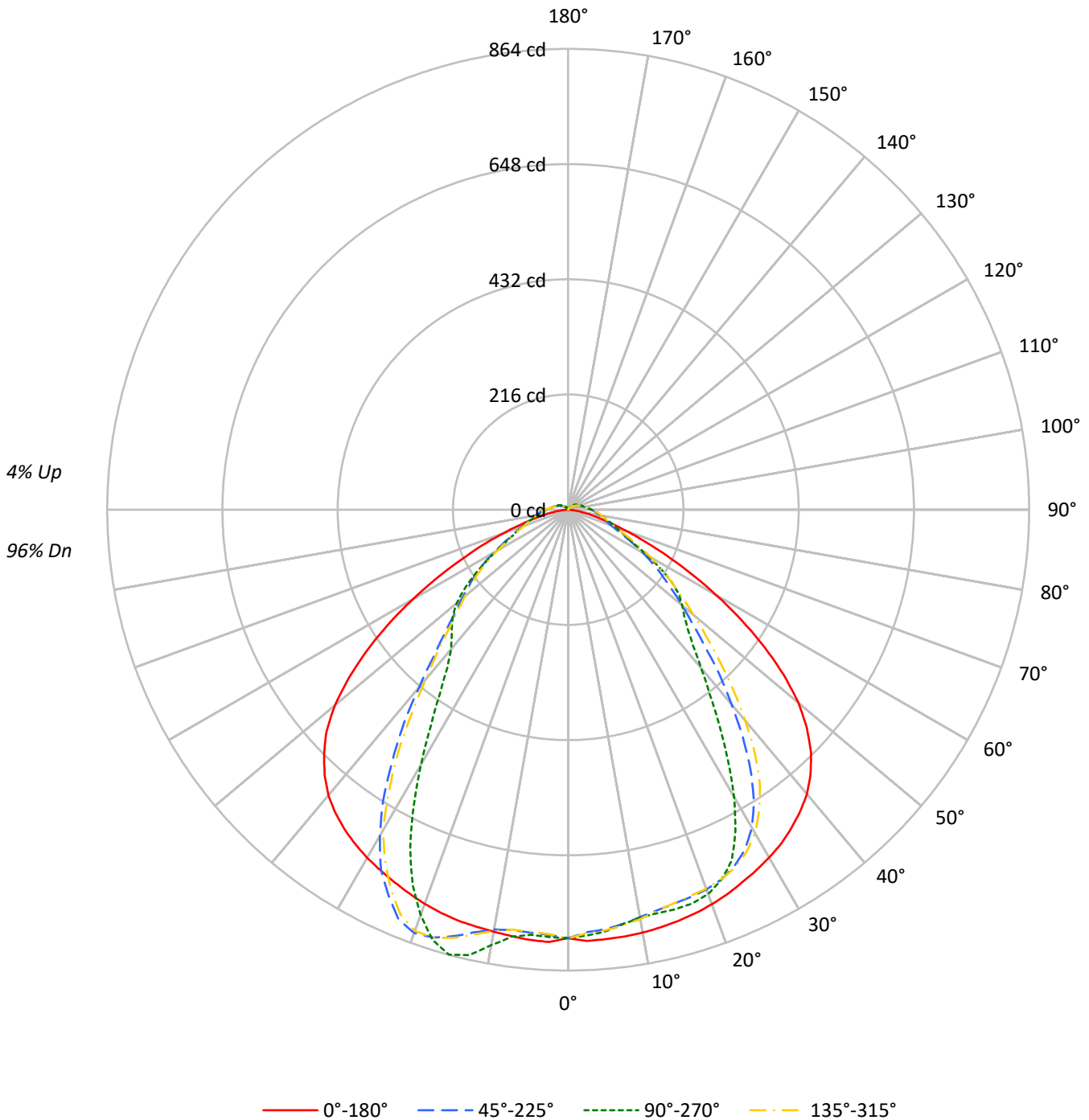
Lumens per Lamp: N/A
Luminaire Lumens: 1915.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12983	12983	12983	12983
5°	13042	12469	13068	12566
10°	13067	11949	13040	12760
15°	13131	11790	13124	13128
20°	13236	11603	13223	12231
25°	13358	11007	13351	10636
30°	13565	9540	13572	8451
35°	13780	7715	13820	6528
40°	13957	6211	14015	5473
45°	13843	5261	13916	5123
50°	13177	4843	13359	4736
55°	11612	4353	11905	3959
60°	9342	3332	9838	3056
65°	6869	2549	7402	2417
70°	4602	2201	5186	2105
75°	2942	1984	3423	1878
80°	1828	1850	2137	1704
85°	855	1847	1125	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	4.0
10°-20°	227.0	11.9
20°-30°	345.1	18.0
30°-40°	370.3	19.3
40°-50°	321.3	16.8
50°-60°	238.1	12.4
60°-70°	136.4	7.1
70°-80°	75.6	3.9
80°-90°	46.0	2.4
90°-100°	29.9	1.6
100°-110°	20.0	1.0
110°-120°	13.5	0.7
120°-130°	8.3	0.4
130°-140°	4.4	0.2
140°-150°	2.0	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	648.5	33.9
0°-40°	1018.7	53.2
0°-60°	1578.2	82.4
0°-90°	1836.3	95.9
90°-120°	63.5	3.3
90°-150°	78.1	4.1
90°-180°	79.0	4.1
0°-180°	1915.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	803	803	803	803	803	
5°	808	794	810	800	808	77
15°	798	776	798	864	798	226
25°	771	725	770	701	771	356
35°	729	494	731	418	729	456
45°	644	317	647	308	644	493
55°	449	237	460	216	449	398
65°	204	120	220	114	204	205
75°	58	76	68	72	58	66
85°	8	53	10	48	8	10
90°	0	44	1	41	0	0
95°	0	36	0	34	0	0
105°	0	27	0	26	0	0
115°	0	22	0	20	0	0
125°	0	17	0	14	0	0
135°	0	10	0	9	0	0
145°	0	6	1	5	0	0
155°	1	3	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



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	809.1	807.0	806.2	804.5	805.8	810.8	807.4	802.0	802.5	792.9	797.9
5°	808.3	805.8	804.5	802.9	803.7	808.3	805.0	799.6	799.1	789.6	794.2
7.5°	807.0	804.5	802.5	801.2	801.6	805.4	801.2	795.0	793.8	783.4	787.5
10°	805.0	803.3	800.4	798.3	797.9	802.0	795.4	789.2	786.3	775.5	779.6
12.5°	802.0	799.6	796.7	792.9	792.5	795.0	789.6	780.9	778.0	769.3	773.8
15°	797.9	795.0	791.7	787.5	785.5	787.1	780.5	772.6	772.2	764.7	770.9
17.5°	793.3	789.2	785.5	779.6	776.7	778.0	772.6	765.5	766.4	761.8	768.9
20°	787.1	782.5	776.7	770.9	766.8	768.9	765.1	759.7	761.0	757.7	763.9
22.5°	780.1	773.8	766.8	760.1	756.8	759.7	756.8	752.3	752.7	750.6	754.3
25°	770.9	763.9	755.6	747.3	745.6	747.7	746.0	742.3	740.6	737.3	739.0
27.5°	762.6	754.7	744.4	735.7	732.8	736.9	733.2	726.9	722.4	717.8	714.5
30°	753.1	743.5	731.9	722.0	719.5	721.1	715.7	706.2	694.2	688.4	679.2
32.5°	742.7	730.3	715.7	704.5	702.9	701.6	691.7	678.0	659.3	647.7	633.6
35°	729.0	715.3	697.9	684.2	681.7	674.7	658.5	640.2	616.2	596.2	572.2
37.5°	713.7	697.5	679.2	661.0	653.9	639.8	617.0	597.9	561.4	537.3	508.3
40°	696.2	676.7	654.3	632.3	620.7	597.9	571.8	543.6	508.3	475.9	451.4
42.5°	672.2	651.4	624.9	600.4	580.5	550.2	519.5	479.7	447.3	419.9	395.0
45°	643.5	618.7	587.9	558.5	533.2	497.1	461.0	421.1	394.2	362.2	345.2
47.5°	606.6	579.6	546.9	514.1	480.9	441.1	403.3	365.1	338.2	315.3	302.9
50°	563.1	538.2	502.1	463.1	426.5	385.0	347.3	318.7	292.5	278.4	268.9
52.5°	509.1	485.9	448.9	406.6	371.4	330.7	296.3	273.0	254.3	244.0	240.7
55°	448.9	428.6	392.1	352.7	316.6	279.2	253.1	232.8	220.7	214.5	214.9
57.5°	384.6	368.9	334.4	299.2	265.1	236.9	213.3	197.1	188.0	187.5	188.8
60°	320.3	308.7	278.8	248.5	218.7	195.8	178.4	167.2	161.4	161.8	161.4
62.5°	258.9	248.1	226.5	201.7	178.0	162.7	146.9	142.3	137.3	136.9	136.9
65°	203.7	195.4	178.0	160.2	142.3	132.4	124.5	119.1	115.3	114.5	114.9
67.5°	153.1	149.8	137.8	125.7	114.5	108.3	101.7	100.4	97.5	97.5	98.3
70°	114.1	111.6	105.0	97.9	93.4	89.2	85.9	85.9	85.5	85.1	87.1
72.5°	82.6	83.0	80.9	75.5	75.1	74.3	73.4	74.7	75.1	76.3	78.8
75°	58.1	59.3	59.3	58.5	60.2	62.2	63.5	65.6	68.0	69.7	72.6
77.5°	41.1	41.1	43.2	45.6	49.0	52.7	56.0	58.9	62.2	64.3	66.8
80°	26.6	27.8	31.1	35.7	40.2	45.2	49.8	53.5	56.8	60.2	61.8
82.5°	15.8	17.8	22.0	27.8	33.6	39.8	44.4	49.0	52.7	56.0	57.3
85°	7.9	10.8	15.8	22.0	28.2	34.9	40.7	44.8	49.0	51.9	53.5
87.5°	2.5	5.8	11.2	17.0	23.7	30.3	36.5	41.1	44.8	47.3	49.0
90°	0.0	2.9	7.9	14.1	20.3	27.0	32.8	37.8	41.5	43.6	44.8
92.5°	0.0	1.7	6.2	11.6	17.4	24.1	29.9	34.4	37.8	39.8	40.7
95°	0.4	1.2	4.6	9.5	15.4	21.6	27.0	31.1	34.4	36.5	36.9
97.5°	0.4	0.8	3.7	7.9	13.3	19.1	24.5	28.6	31.1	33.2	33.6
100°	0.4	0.8	2.9	7.1	11.6	17.0	22.0	25.7	28.6	30.3	30.7
102.5°	0.4	0.4	2.5	5.8	10.4	14.9	19.5	23.2	25.7	27.4	28.2
105°	0.4	0.4	2.1	5.0	9.1	13.3	17.4	21.2	23.2	24.9	25.7
107.5°	0.4	0.4	1.7	4.1	7.9	11.6	15.8	18.7	21.2	22.8	23.7
110°	0.4	0.4	1.2	3.7	6.6	10.4	13.7	16.6	19.1	20.7	21.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.4	1.2	3.3	5.8	9.1	12.0	14.9	17.0	18.7	19.9
115°	0.4	0.4	1.2	2.9	5.4	7.9	10.8	13.3	15.4	17.0	18.3
117.5°	0.4	0.4	1.2	2.5	4.6	7.1	9.5	12.0	13.7	15.4	16.6
120°	0.4	0.4	0.8	2.1	4.1	6.2	8.3	10.4	12.4	14.1	15.4
122.5°	0.4	0.4	0.8	2.1	3.3	5.4	7.5	9.1	11.2	12.4	13.7
125°	0.4	0.4	0.8	1.7	2.9	5.0	6.6	8.3	9.5	11.2	12.4
127.5°	0.4	0.4	0.8	1.7	2.5	4.1	5.8	7.5	8.7	10.0	10.8
130°	0.4	0.4	0.8	1.2	2.1	3.3	5.0	6.2	7.9	8.7	9.5
132.5°	0.4	0.4	0.4	1.2	1.7	2.5	3.7	5.4	6.6	7.9	8.3
135°	0.4	0.4	0.4	0.8	1.7	2.1	2.9	4.1	5.4	6.6	7.5
137.5°	0.4	0.4	0.4	0.8	1.2	2.1	2.5	3.3	4.6	5.4	6.6
140°	0.4	0.4	0.4	0.8	1.2	1.7	2.1	2.9	3.7	4.6	5.4
142.5°	0.4	0.4	0.4	0.8	0.8	1.2	1.7	2.5	2.9	3.7	4.6
145°	0.4	0.4	0.4	0.8	0.8	1.2	1.7	2.1	2.5	2.9	3.7
147.5°	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.7	2.1	2.5	2.9
150°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.7	2.1	2.5
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.7	2.1
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.7	1.7
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	796.2	797.1	802.0	801.6	800.8	800.0	800.0	799.1	800.0	802.0	801.2
5°	792.1	793.3	797.1	796.7	795.8	795.4	795.0	793.8	794.6	797.5	796.7
7.5°	784.6	785.9	789.2	787.5	786.3	787.1	785.0	783.8	785.5	788.4	787.9
10°	776.7	777.6	781.7	780.9	778.8	779.2	777.2	776.3	778.4	780.1	780.5
12.5°	771.3	774.2	778.0	777.6	777.2	777.6	775.5	774.7	775.9	777.6	777.2
15°	770.1	773.8	778.0	778.0	778.4	778.8	776.7	775.5	776.7	778.0	777.6
17.5°	768.9	773.4	777.2	776.7	777.2	778.0	774.7	773.8	775.5	777.2	776.3
20°	764.7	768.9	771.3	770.5	770.5	770.9	766.8	766.8	769.3	770.5	770.9
22.5°	753.1	758.1	758.1	756.0	756.0	754.3	753.1	750.6	753.5	755.6	757.2
25°	735.7	737.7	735.2	730.7	728.2	726.1	720.3	725.3	725.3	731.5	733.6
27.5°	711.2	706.6	699.6	690.0	687.9	681.3	677.6	678.8	680.9	689.6	696.2
30°	670.9	657.2	645.2	641.1	631.9	625.3	618.7	622.0	625.7	630.7	644.4
32.5°	617.8	604.5	585.0	578.0	568.4	560.1	552.3	557.2	563.9	567.2	582.1
35°	556.8	541.1	523.2	511.2	501.2	496.7	486.7	493.8	500.8	503.3	516.2
37.5°	492.1	475.9	460.2	449.8	440.2	437.3	430.7	435.7	441.1	444.8	455.6
40°	430.7	415.8	403.7	396.7	390.0	387.5	385.0	387.1	391.3	394.2	402.5
42.5°	378.0	366.0	357.7	353.5	349.0	345.6	346.0	346.9	349.0	355.2	358.9
45°	331.9	324.9	319.5	318.7	315.8	315.3	314.9	316.6	317.8	321.6	324.5
47.5°	295.0	292.1	290.9	292.5	293.8	292.1	292.9	295.0	297.5	297.5	297.1
50°	266.0	266.8	268.5	272.2	274.7	275.5	276.3	278.8	279.2	280.1	278.8
52.5°	242.3	243.1	247.7	253.5	256.4	257.7	259.3	261.8	261.8	262.6	261.0
55°	218.3	219.5	224.1	229.9	232.4	234.0	235.7	237.3	238.6	240.2	239.0
57.5°	191.7	195.4	198.3	200.0	201.7	202.9	204.1	204.6	207.0	207.5	209.5
60°	163.5	164.3	167.2	166.8	165.6	168.9	167.2	170.1	173.0	176.8	177.2
62.5°	136.5	136.9	139.0	138.2	139.8	139.4	140.7	140.7	142.7	144.4	146.5
65°	115.3	115.8	117.4	117.4	117.0	118.3	119.5	120.3	120.3	121.6	123.2
67.5°	99.6	100.8	102.5	103.3	104.1	104.1	105.4	105.8	106.6	107.1	107.9
70°	88.8	90.5	92.1	92.9	93.4	94.2	94.6	94.6	95.4	95.8	96.7
72.5°	80.9	82.6	83.8	83.8	84.6	85.1	85.1	85.5	85.9	86.7	87.5
75°	74.3	75.5	76.3	75.9	75.9	75.9	76.3	76.3	77.2	78.0	78.8
77.5°	68.0	69.3	69.3	68.5	68.5	68.5	68.5	68.9	69.3	70.1	71.0
80°	63.5	63.5	63.1	63.1	62.2	61.8	61.8	62.2	62.2	63.1	64.3
82.5°	58.5	58.5	58.1	57.7	57.3	56.8	56.8	57.3	57.7	58.1	58.9
85°	53.9	53.9	53.1	53.1	52.7	52.7	52.7	52.7	53.1	53.5	54.4
87.5°	49.4	49.0	48.5	48.1	48.1	48.1	48.1	48.1	48.5	49.4	49.8
90°	44.8	44.4	44.0	44.0	43.6	43.6	44.0	44.0	44.4	44.8	45.2
92.5°	40.7	40.2	39.8	39.8	39.4	39.4	39.8	39.4	40.2	40.2	40.7
95°	36.9	36.5	36.1	36.1	36.1	36.1	36.1	36.1	36.5	36.5	36.9
97.5°	33.6	33.2	32.8	32.8	33.2	32.8	33.2	33.2	33.2	33.6	34.0
100°	30.7	30.3	30.3	30.7	30.3	30.3	30.7	30.7	30.7	30.7	31.1
102.5°	28.2	28.2	28.2	28.2	28.2	28.2	28.6	28.6	28.6	28.6	29.0
105°	25.7	26.1	26.1	26.1	26.6	26.6	26.6	27.0	27.0	27.0	27.0
107.5°	24.1	24.5	24.5	24.9	24.9	25.3	25.3	25.3	25.3	25.7	25.7
110°	22.4	22.8	23.2	23.7	23.7	24.1	24.1	24.1	24.1	24.1	24.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	20.7	21.2	21.6	22.4	22.8	22.8	22.8	22.8	23.2	23.2	22.8
115°	19.1	19.9	20.3	21.2	21.6	21.6	22.0	22.0	22.0	22.0	21.6
117.5°	17.4	18.7	19.1	19.9	20.3	20.3	20.7	20.7	20.7	20.7	20.3
120°	16.2	17.0	17.8	18.3	18.7	19.1	19.1	19.5	19.5	19.5	19.1
122.5°	14.9	15.8	16.6	17.0	17.4	17.8	17.8	17.8	17.8	17.8	17.8
125°	13.3	14.1	14.9	15.4	15.8	16.2	16.2	16.6	16.6	16.6	16.2
127.5°	12.0	12.9	13.3	14.1	14.5	14.5	14.9	14.9	14.9	14.9	14.5
130°	10.4	11.2	12.0	12.4	12.9	12.9	13.3	13.3	13.3	13.3	13.3
132.5°	9.1	10.0	10.4	11.2	11.2	11.6	11.6	12.0	12.0	12.0	11.6
135°	8.3	8.7	9.1	10.0	10.0	10.4	10.4	10.4	10.4	10.4	10.4
137.5°	7.5	7.9	8.3	8.7	8.7	9.1	9.1	9.1	9.1	9.5	9.1
140°	6.2	7.1	7.5	7.5	7.9	7.9	7.9	8.3	8.3	8.3	7.9
142.5°	5.4	5.8	6.2	6.6	7.1	7.1	7.1	7.1	7.5	7.1	7.1
145°	4.1	5.0	5.4	5.8	6.2	6.2	6.2	6.2	6.2	6.2	6.2
147.5°	3.3	3.7	4.6	5.0	5.0	5.4	5.4	5.4	5.4	5.4	5.4
150°	2.9	2.9	3.7	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
152.5°	2.1	2.5	2.9	3.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7
155°	2.1	2.1	2.5	2.5	2.9	2.9	2.9	2.9	3.3	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	800.0	799.6	801.2	799.6	791.3	794.6	793.3	797.9	798.3	799.6	803.7
5°	795.8	795.8	797.9	796.2	788.4	791.7	791.3	795.8	796.7	797.5	802.0
7.5°	787.5	787.9	790.8	789.6	781.3	786.3	785.9	791.3	792.9	794.6	798.7
10°	779.6	779.2	782.5	781.3	773.4	779.2	778.8	784.2	786.7	789.6	794.6
12.5°	775.5	774.2	775.5	774.2	765.5	770.1	770.5	776.7	779.6	783.4	789.2
15°	775.5	773.4	773.4	770.9	761.0	763.9	764.3	768.4	772.2	775.9	783.0
17.5°	774.7	772.6	772.2	770.1	759.3	759.3	758.9	761.8	763.9	767.6	775.1
20°	770.1	769.3	768.9	767.6	757.7	756.0	755.2	755.2	756.4	757.7	765.1
22.5°	758.1	758.9	759.7	760.6	752.7	749.8	750.2	749.4	748.1	748.1	754.3
25°	735.7	739.8	743.1	746.9	742.3	740.2	742.7	741.5	739.4	737.7	743.1
27.5°	700.0	708.7	715.7	724.9	725.3	723.6	730.3	729.4	729.0	726.5	730.7
30°	650.6	664.3	673.8	687.1	698.3	700.0	711.2	712.8	714.5	713.3	717.4
32.5°	590.9	609.5	625.7	646.5	657.2	666.8	682.6	689.2	695.8	697.9	702.5
35°	525.7	546.9	566.0	588.8	605.8	626.5	645.6	655.6	670.5	676.3	683.0
37.5°	463.9	483.8	502.5	525.3	552.7	574.3	597.9	620.3	640.6	648.9	658.9
40°	409.1	425.3	443.1	463.1	488.0	516.2	541.9	573.0	597.1	613.7	628.2
42.5°	367.6	375.5	390.9	408.7	428.6	457.2	483.4	518.2	547.3	570.9	595.0
45°	330.7	334.4	345.6	355.2	375.5	400.8	428.6	462.6	492.9	523.2	552.3
47.5°	299.2	303.7	309.1	314.9	329.5	350.6	374.7	405.4	435.7	470.9	504.1
50°	278.0	279.2	280.1	282.6	291.3	305.8	325.3	351.4	380.5	418.2	453.5
52.5°	259.3	259.3	256.8	255.6	258.9	268.0	279.2	297.9	327.8	362.6	400.0
55°	239.4	235.7	234.8	230.7	231.5	235.7	241.1	255.6	280.1	309.9	346.0
57.5°	211.6	210.0	210.0	208.3	205.0	207.0	208.3	218.7	236.1	261.8	293.4
60°	179.7	178.8	180.9	181.3	178.4	179.7	179.2	185.5	197.9	218.7	244.8
62.5°	147.7	151.4	151.9	153.5	151.9	151.4	153.5	158.9	165.1	180.9	201.2
65°	124.1	126.1	126.6	128.6	127.8	127.8	129.5	133.6	137.3	148.1	163.9
67.5°	108.7	107.9	108.3	109.5	108.3	107.9	109.1	111.6	114.5	121.2	132.4
70°	96.7	95.8	95.8	95.8	94.2	92.9	93.4	94.2	95.4	99.2	106.2
72.5°	87.5	87.5	86.3	85.1	83.8	83.0	82.2	81.3	80.9	82.2	85.9
75°	79.3	79.7	79.3	78.0	76.3	74.7	73.0	71.4	69.3	68.5	68.9
77.5°	71.8	72.2	72.6	72.2	70.5	68.5	66.0	63.5	60.6	57.7	56.0
80°	65.1	66.0	66.4	66.0	64.7	63.1	60.2	57.3	53.1	49.4	45.2
82.5°	59.3	60.6	61.0	61.0	60.2	58.5	55.2	51.9	47.3	42.3	36.9
85°	54.8	55.6	56.4	56.4	56.0	54.4	51.0	47.3	42.7	36.9	31.1
87.5°	50.2	50.6	51.5	52.3	51.5	49.8	46.9	42.7	38.2	32.4	25.7
90°	45.6	46.1	46.9	47.7	47.3	45.6	43.2	39.4	34.4	28.2	21.6
92.5°	41.1	41.9	42.3	42.7	43.2	41.9	39.8	36.1	31.1	24.9	18.7
95°	37.8	37.8	38.6	39.0	39.4	38.2	36.5	32.8	28.2	22.4	16.2
97.5°	34.4	34.4	35.3	35.3	35.7	34.9	33.2	29.9	25.3	19.9	13.7
100°	31.1	31.5	31.9	32.4	32.4	31.9	30.3	27.0	22.8	17.8	12.0
102.5°	29.0	29.0	29.5	29.5	29.9	29.0	27.4	24.5	20.3	15.8	10.4
105°	27.0	27.0	27.4	27.4	27.0	26.1	24.5	22.0	18.3	13.7	9.1
107.5°	25.3	25.3	25.3	25.3	24.9	24.1	22.4	19.5	16.2	12.4	8.3
110°	24.1	23.7	23.7	23.2	22.8	21.6	19.9	17.4	14.5	10.8	7.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	22.8	22.4	22.0	21.6	20.7	19.5	17.8	15.8	12.9	9.5	6.2
115°	21.6	21.2	20.7	19.9	19.1	17.8	16.2	14.1	11.2	8.3	5.4
117.5°	20.3	19.9	19.1	18.3	17.4	16.2	14.5	12.4	10.0	7.5	5.0
120°	18.7	18.3	17.8	17.0	16.2	14.5	12.9	11.2	8.7	6.6	4.1
122.5°	17.4	17.0	16.2	15.8	14.5	13.3	11.6	10.0	7.9	5.8	3.7
125°	15.8	15.4	14.9	14.1	13.3	11.6	10.4	8.7	7.1	5.0	2.9
127.5°	14.5	14.1	13.3	12.4	11.6	10.4	9.1	7.9	6.2	4.1	2.9
130°	12.9	12.4	12.0	11.2	10.4	9.1	8.3	6.6	5.4	3.7	2.5
132.5°	11.2	11.2	10.8	10.0	9.1	8.3	7.1	5.8	4.6	3.3	2.1
135°	10.4	10.0	9.5	8.7	8.3	7.1	6.2	5.0	3.7	2.9	1.7
137.5°	9.1	8.7	8.3	7.9	7.1	6.2	5.4	4.1	3.3	2.5	1.7
140°	7.9	7.5	7.5	6.6	6.2	5.4	4.6	3.7	2.9	2.1	1.2
142.5°	7.1	6.6	6.2	5.8	5.4	4.6	3.7	2.9	2.5	1.7	1.2
145°	6.2	5.8	5.4	5.0	4.6	3.7	3.3	2.5	2.1	1.7	1.2
147.5°	5.0	5.0	4.6	4.1	3.7	3.3	2.9	2.5	1.7	1.2	0.8
150°	4.1	4.1	3.7	3.3	3.3	2.9	2.5	2.1	1.7	1.2	0.8
152.5°	3.7	3.3	3.3	2.9	2.9	2.5	2.1	1.7	1.2	1.2	0.8
155°	2.9	2.9	2.9	2.5	2.5	2.1	1.7	1.7	1.2	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	804.5	799.6	803.7	811.2	810.3	809.5	808.7	810.3	815.7	812.8	808.3
5°	803.3	798.3	802.9	809.9	809.5	808.3	807.4	809.1	814.5	811.6	806.6
7.5°	800.8	796.2	799.6	806.6	806.6	805.8	805.0	806.6	811.6	809.1	804.1
10°	796.7	793.3	796.7	803.3	803.7	802.0	801.2	803.3	808.3	807.0	802.9
12.5°	793.3	790.0	793.8	800.4	800.8	799.1	797.9	800.4	807.0	807.9	806.6
15°	788.8	785.9	790.4	797.5	797.5	796.2	796.2	799.6	808.7	812.4	814.5
17.5°	782.1	780.1	785.5	792.5	792.9	792.1	792.5	799.1	811.2	820.3	826.1
20°	773.8	773.0	778.8	786.3	787.5	787.9	790.0	800.0	816.6	829.0	834.8
22.5°	763.9	764.3	770.9	778.8	780.5	781.7	785.9	800.0	820.7	834.0	836.5
25°	752.7	753.9	761.0	770.5	772.6	775.1	782.1	800.4	822.0	830.7	826.5
27.5°	740.6	743.1	752.3	762.2	764.7	768.9	778.0	797.9	816.2	816.6	801.2
30°	728.2	731.1	741.9	753.5	757.7	761.8	773.0	792.1	802.0	788.8	761.8
32.5°	714.1	718.2	729.0	743.1	748.1	753.5	764.7	780.9	777.2	748.5	709.9
35°	696.2	702.1	714.5	731.1	735.7	742.7	750.6	754.3	737.7	697.1	653.5
37.5°	674.3	683.0	697.5	716.6	721.6	726.1	728.2	717.8	684.6	640.6	595.4
40°	648.9	662.2	678.0	699.1	704.1	704.1	696.7	674.7	632.8	575.1	524.9
42.5°	618.2	634.4	654.3	675.5	680.5	674.7	656.8	618.2	570.5	506.2	453.1
45°	580.9	602.5	624.9	646.9	649.4	636.5	604.5	555.6	496.7	436.9	386.3
47.5°	536.5	564.7	589.2	614.1	610.8	589.2	546.5	490.9	428.6	372.2	331.5
50°	486.7	519.9	547.3	570.9	563.9	534.0	483.8	425.7	363.9	315.8	282.1
52.5°	433.6	471.8	499.2	518.2	508.7	473.0	417.8	362.2	311.6	267.6	245.2
55°	378.4	417.0	445.2	460.2	447.7	409.1	354.8	304.1	256.4	227.8	214.5
57.5°	324.9	361.0	387.5	399.6	383.8	345.2	295.0	252.3	217.8	193.8	187.1
60°	273.4	302.9	328.2	337.3	320.3	284.6	241.5	207.5	182.2	165.6	162.2
62.5°	225.7	249.8	269.7	276.8	260.2	232.4	195.0	169.7	151.9	143.6	139.4
65°	186.3	200.4	220.7	219.5	209.5	183.8	156.4	138.6	127.0	121.6	119.1
67.5°	146.5	159.3	172.2	173.9	161.4	143.6	125.7	112.9	106.6	103.7	102.5
70°	113.3	122.8	130.7	128.6	122.0	110.8	99.6	92.5	90.0	88.8	88.8
72.5°	88.0	92.9	96.7	94.2	90.0	84.2	78.8	75.9	76.3	77.2	78.0
75°	68.0	69.3	70.1	67.6	66.8	63.1	62.7	63.1	65.6	68.0	69.3
77.5°	52.3	50.6	49.4	46.9	47.3	46.9	49.0	52.3	56.0	59.7	63.1
80°	40.2	36.5	33.6	31.1	32.4	34.4	38.6	43.6	48.5	52.7	56.8
82.5°	31.1	25.7	21.6	19.1	21.6	24.9	30.3	36.5	42.3	46.9	51.5
85°	24.1	17.8	12.9	10.4	12.9	17.8	23.7	30.7	36.9	41.9	46.5
87.5°	18.7	12.9	7.1	4.1	7.1	12.4	19.1	25.7	31.9	37.8	42.3
90°	14.9	8.7	3.3	0.8	3.7	8.7	14.9	21.6	27.8	34.0	38.6
92.5°	12.0	6.2	1.7	0.0	2.1	6.6	12.4	18.7	24.9	30.7	35.3
95°	10.0	5.0	1.2	0.0	1.7	5.0	10.0	16.2	22.0	27.8	31.5
97.5°	8.3	3.7	0.8	0.0	0.8	4.1	8.3	13.7	19.5	24.9	28.6
100°	7.1	3.3	0.8	0.0	0.8	3.3	7.1	12.0	17.0	22.0	25.7
102.5°	5.8	2.5	0.4	0.4	0.4	2.5	6.2	10.4	14.9	19.5	23.2
105°	5.4	2.1	0.4	0.4	0.4	2.1	5.4	9.1	13.3	17.4	20.7
107.5°	4.6	1.7	0.4	0.4	0.4	1.7	4.6	7.9	12.0	15.8	18.7
110°	3.7	1.7	0.4	0.4	0.4	1.7	3.7	7.1	10.4	13.7	16.6



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	3.3	1.2	0.4	0.4	0.4	1.2	3.3	6.2	9.1	12.4	14.9
115°	2.9	1.2	0.4	0.4	0.4	1.2	2.9	5.4	7.9	10.8	13.3
117.5°	2.5	1.2	0.4	0.4	0.4	0.8	2.5	4.6	7.1	9.5	12.0
120°	2.1	0.8	0.4	0.4	0.4	0.8	2.1	4.1	6.2	8.3	10.4
122.5°	2.1	0.8	0.4	0.4	0.4	0.8	1.7	3.3	5.4	7.1	9.1
125°	1.7	0.8	0.4	0.4	0.4	0.4	1.7	2.9	4.6	6.2	7.9
127.5°	1.7	0.8	0.4	0.4	0.4	0.4	1.2	2.5	3.7	5.4	7.1
130°	1.2	0.8	0.4	0.4	0.4	0.4	0.8	2.1	3.3	4.6	5.8
132.5°	1.2	0.8	0.4	0.4	0.4	0.4	0.8	1.7	2.5	3.7	5.0
135°	1.2	0.4	0.4	0.4	0.4	0.4	0.4	1.2	2.1	2.9	3.7
137.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.7	2.1	3.3
140°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.7	2.5
142.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	2.1
145°	0.8	0.4	0.4	0.8	0.8	0.4	0.4	0.8	0.8	1.2	1.7
147.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	807.4	797.9	802.9	801.2	802.9	807.0	806.6	805.4	806.2	804.1	802.0
5°	805.8	796.2	801.2	799.1	801.2	805.4	804.5	803.3	804.5	802.0	800.0
7.5°	803.7	795.0	800.8	800.4	804.1	809.5	809.9	809.9	812.8	809.1	807.4
10°	803.7	799.1	807.0	809.9	819.5	826.5	827.4	829.0	834.0	833.2	829.0
12.5°	812.4	811.6	823.2	830.3	839.0	848.9	854.3	856.0	859.3	856.8	855.2
15°	823.6	827.8	840.6	848.5	858.1	865.5	866.8	867.6	870.1	866.4	863.5
17.5°	838.6	841.1	851.4	854.7	861.0	862.2	860.6	856.4	856.4	848.1	845.6
20°	845.6	844.4	848.5	843.1	840.6	833.2	826.1	818.2	817.8	809.1	808.3
22.5°	839.4	831.1	822.4	809.1	803.3	792.5	783.0	778.4	775.5	764.3	761.4
25°	817.4	797.1	784.2	768.4	754.3	741.9	732.8	723.2	714.1	705.0	700.8
27.5°	779.2	760.1	739.4	717.4	697.9	678.8	663.5	653.9	645.2	633.2	627.0
30°	732.3	705.8	683.0	661.8	629.9	606.6	593.8	574.7	568.0	562.6	551.0
32.5°	677.2	645.2	614.1	585.5	552.7	531.1	514.1	500.0	495.8	481.7	478.4
35°	616.2	574.3	539.0	510.8	487.1	461.0	446.9	437.3	429.0	419.5	417.8
37.5°	544.4	506.6	466.8	441.9	423.2	400.8	390.0	383.4	379.7	372.6	371.4
40°	472.2	434.4	407.0	382.1	370.5	358.5	350.6	347.7	346.0	343.6	341.1
42.5°	406.6	373.4	353.9	337.3	332.4	326.5	324.5	326.1	324.5	323.6	323.2
45°	351.0	325.7	312.0	307.0	305.8	304.1	305.8	308.7	309.1	308.3	308.3
47.5°	300.4	288.4	282.6	283.4	285.5	286.7	289.6	293.4	294.2	292.1	292.9
50°	267.2	260.2	258.9	262.2	266.8	268.5	271.8	274.7	274.3	273.4	272.6
52.5°	236.1	234.0	237.3	240.7	245.6	246.5	247.7	249.0	248.5	246.9	246.1
55°	210.0	211.6	214.5	215.8	219.5	219.1	219.5	219.5	217.8	217.0	215.8
57.5°	186.3	186.7	188.4	188.8	190.9	190.0	189.6	188.8	186.3	185.9	184.6
60°	162.2	161.4	165.1	162.2	163.9	162.2	161.8	159.7	157.3	156.8	156.0
62.5°	139.4	137.8	140.2	139.0	139.8	138.2	137.3	134.9	132.8	132.4	131.9
65°	119.1	118.3	120.7	120.3	121.2	119.1	118.3	116.6	114.9	114.5	114.1
67.5°	102.1	104.1	105.4	105.4	106.2	105.8	103.7	103.3	102.9	101.2	101.2
70°	89.6	90.9	93.4	93.8	93.4	94.2	92.5	92.1	91.7	90.9	90.5
72.5°	79.7	81.3	83.8	84.2	83.8	83.8	83.0	82.6	82.6	81.3	81.3
75°	71.8	73.9	75.9	75.9	75.9	75.1	74.3	74.3	73.4	73.0	72.2
77.5°	65.1	67.6	69.3	68.9	68.5	67.6	67.6	66.4	65.1	65.1	64.3
80°	60.2	61.8	63.1	62.7	62.2	61.0	60.6	59.3	58.5	57.3	57.3
82.5°	54.8	56.8	57.7	57.3	56.4	55.2	54.8	53.9	53.1	52.7	51.9
85°	50.2	52.3	52.7	51.9	51.0	50.2	49.8	49.4	49.0	48.1	48.1
87.5°	45.6	47.7	47.7	47.3	46.5	46.1	45.6	45.2	44.8	44.4	44.0
90°	41.9	43.6	43.6	43.2	42.7	42.3	41.9	41.5	41.1	40.7	40.7
92.5°	38.2	39.8	39.8	39.4	39.0	38.6	38.6	38.2	37.8	37.3	36.9
95°	34.9	36.5	36.5	36.5	36.1	35.7	35.7	35.3	34.9	34.9	34.4
97.5°	31.5	33.2	33.2	33.2	32.8	32.4	32.4	31.9	31.9	31.9	31.5
100°	28.6	29.9	30.3	30.3	29.9	29.9	29.9	29.5	29.5	29.5	29.0
102.5°	25.7	27.0	27.8	27.8	27.8	27.4	27.4	27.4	27.4	27.4	27.0
105°	23.2	24.5	25.3	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
107.5°	21.2	22.4	23.2	23.7	24.1	24.1	24.5	24.5	24.5	24.5	24.5
110°	19.1	20.3	21.6	22.0	22.4	22.8	22.8	23.2	22.8	22.8	22.8



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	17.0	18.7	19.5	20.3	20.7	21.2	21.6	21.6	21.6	21.6	21.6
115°	15.4	17.0	17.8	18.7	19.5	19.9	19.9	20.3	20.3	20.3	19.9
117.5°	13.7	15.4	16.2	17.0	17.4	18.3	18.7	18.7	18.7	18.7	18.3
120°	12.4	13.7	14.5	15.4	16.2	16.6	17.0	17.0	17.0	17.0	17.0
122.5°	10.8	12.0	13.3	14.1	14.5	14.9	15.4	15.4	15.4	15.4	15.4
125°	9.5	10.8	11.6	12.4	12.9	13.7	13.7	13.7	13.7	13.7	13.7
127.5°	8.3	9.5	10.4	11.2	11.6	12.0	12.4	12.4	12.4	12.4	12.4
130°	7.1	8.3	9.1	10.0	10.4	10.8	10.8	11.2	11.2	11.2	11.2
132.5°	6.2	7.1	7.9	8.7	9.1	9.5	9.5	10.0	10.0	10.0	10.0
135°	5.0	6.2	6.6	7.5	7.9	8.3	8.3	8.7	8.7	8.7	8.7
137.5°	4.1	5.0	5.8	6.6	7.1	7.1	7.5	7.5	7.9	7.9	7.9
140°	3.3	3.7	5.0	5.4	5.8	6.2	6.6	6.6	6.6	6.6	6.6
142.5°	2.5	3.3	3.7	4.6	5.0	5.4	5.8	5.8	5.8	5.8	5.8
145°	2.1	2.5	2.9	3.7	4.1	4.6	5.0	5.0	5.0	5.0	5.0
147.5°	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.1	4.1	4.1	4.1
150°	1.2	1.7	2.1	2.1	2.5	2.9	3.3	3.7	3.7	3.7	3.7
152.5°	1.2	1.2	1.7	1.7	2.1	2.5	2.9	2.9	2.9	2.9	2.9
155°	0.8	1.2	1.2	1.2	1.7	1.7	2.1	2.5	2.5	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: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	803.3	805.0	804.1	802.9	802.5	804.5	802.5	792.9	796.7	797.1	800.0
5°	802.0	803.3	802.5	801.6	800.4	802.9	800.4	790.4	794.2	794.6	797.5
7.5°	810.3	810.8	810.8	808.7	805.4	806.6	803.3	792.1	794.2	794.2	796.2
10°	831.1	831.9	833.2	827.8	823.6	820.3	815.7	802.0	801.6	798.3	798.3
12.5°	858.1	856.0	853.9	851.4	848.1	844.0	837.3	821.1	815.7	810.3	805.0
15°	865.9	865.1	864.7	863.5	861.4	860.1	855.2	839.0	831.1	824.5	814.9
17.5°	845.2	846.9	852.3	852.7	855.2	860.1	859.3	848.1	841.1	838.1	826.5
20°	807.9	808.3	814.9	817.8	828.6	836.9	843.1	841.9	840.2	843.5	834.8
22.5°	763.0	766.0	773.0	777.6	787.9	797.5	807.4	812.8	821.6	835.2	833.6
25°	702.1	705.8	715.7	723.2	737.7	752.3	765.5	775.1	785.5	811.6	820.3
27.5°	629.0	634.8	647.7	655.2	675.5	690.4	709.5	728.2	742.7	772.6	790.4
30°	552.3	557.2	570.9	581.3	598.7	619.1	643.1	669.7	693.8	724.0	746.4
32.5°	480.5	485.9	497.1	506.2	525.7	542.7	569.3	602.1	624.5	666.4	696.2
35°	417.8	422.8	430.7	438.6	454.8	472.2	495.0	527.0	555.6	599.2	636.9
37.5°	373.8	374.7	379.2	383.8	395.8	409.1	427.0	455.2	481.7	528.6	570.1
40°	342.3	342.3	344.8	346.0	351.4	359.3	370.5	392.5	414.5	450.2	500.8
42.5°	322.8	322.0	322.0	322.4	322.0	325.7	332.4	342.7	362.2	391.7	431.1
45°	308.3	306.6	305.4	302.5	300.8	300.8	301.2	305.0	316.2	335.3	367.2
47.5°	292.1	291.7	289.6	286.3	283.4	281.3	278.0	276.8	280.1	290.9	312.4
50°	273.4	271.4	269.3	266.8	263.5	261.4	255.2	255.6	252.7	257.7	268.9
52.5°	246.1	244.4	243.6	241.5	240.2	239.4	234.4	229.5	228.2	229.0	233.2
55°	215.8	216.6	213.3	214.9	214.5	210.8	208.7	205.0	203.7	203.3	205.4
57.5°	184.2	185.1	183.0	184.6	184.6	182.6	181.3	181.3	178.4	175.9	178.8
60°	155.6	153.9	155.2	157.3	157.3	156.0	155.2	155.2	153.1	152.3	154.4
62.5°	132.4	130.7	131.9	134.0	134.4	133.6	132.8	132.8	130.3	130.3	131.9
65°	114.5	114.9	114.5	116.2	116.2	116.6	115.8	114.9	112.0	113.3	112.9
67.5°	101.7	101.2	101.2	102.9	102.5	103.3	102.5	101.2	99.2	97.5	97.1
70°	90.9	90.5	90.5	91.3	91.7	91.7	91.3	90.5	87.5	85.9	84.6
72.5°	81.3	80.9	81.3	81.7	82.2	82.6	82.2	81.3	78.8	76.8	74.7
75°	72.6	72.2	73.4	73.4	73.9	73.9	74.3	73.9	71.8	69.3	66.8
77.5°	63.9	64.3	65.6	66.0	66.8	67.2	67.6	67.6	65.6	63.5	60.2
80°	56.8	57.7	58.5	58.9	59.7	61.0	61.4	61.8	60.2	58.1	54.4
82.5°	51.9	52.3	53.1	53.5	54.8	55.2	55.6	56.4	55.6	53.5	49.4
85°	47.7	48.1	49.0	49.0	49.8	50.6	51.0	51.5	51.0	49.0	44.8
87.5°	44.0	44.4	44.8	45.2	45.6	46.1	46.5	46.9	46.5	44.4	40.7
90°	40.7	40.7	41.1	41.1	41.5	41.9	42.7	42.7	42.3	40.7	36.9
92.5°	36.9	37.3	37.3	37.8	38.2	38.6	39.0	39.0	38.6	36.9	33.6
95°	34.4	34.4	34.9	34.9	35.3	35.3	35.7	35.7	35.3	33.6	30.3
97.5°	31.5	31.5	31.5	31.5	31.9	31.9	32.4	32.4	31.9	30.3	27.4
100°	29.0	29.0	29.0	29.0	29.0	29.5	29.5	29.5	29.0	27.4	24.5
102.5°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	26.1	24.9	22.0
105°	25.7	25.7	25.7	25.3	25.3	25.3	24.9	24.9	23.7	22.4	19.9
107.5°	24.1	24.1	24.1	23.7	23.7	23.2	22.8	22.8	21.6	20.3	17.8
110°	22.8	22.8	22.8	22.4	22.0	21.6	21.2	20.7	19.5	17.8	15.8



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	21.6	21.6	21.2	21.2	20.7	20.3	19.5	19.1	17.8	16.2	14.1
115°	19.9	19.9	19.9	19.5	19.1	18.7	18.3	17.4	16.2	14.5	12.4
117.5°	18.3	18.3	18.3	17.8	17.4	17.0	16.6	15.8	14.5	12.9	11.2
120°	16.6	16.6	16.6	16.2	15.8	15.4	14.9	14.1	12.9	11.6	9.5
122.5°	15.4	15.4	14.9	14.5	14.1	13.7	13.3	12.4	11.6	10.0	8.3
125°	13.7	13.7	13.3	13.3	12.9	12.4	12.0	11.2	10.0	8.7	7.5
127.5°	12.4	12.0	12.0	12.0	11.6	11.2	10.4	10.0	8.7	7.5	6.2
130°	10.8	10.8	10.8	10.4	10.4	10.0	9.1	8.3	7.5	6.6	5.4
132.5°	9.5	9.5	9.5	9.5	9.1	8.7	7.9	7.5	6.6	5.4	4.6
135°	8.7	8.7	8.3	8.3	7.9	7.5	7.1	6.2	5.4	4.6	3.7
137.5°	7.5	7.5	7.5	7.1	7.1	6.6	5.8	5.4	5.0	4.1	3.3
140°	6.6	6.6	6.2	6.2	5.8	5.8	5.4	4.6	4.1	3.3	2.9
142.5°	5.8	5.8	5.4	5.4	5.0	5.0	4.6	4.1	3.3	2.9	2.1
145°	5.0	5.0	4.6	4.6	4.6	4.1	3.7	3.3	2.9	2.5	2.1
147.5°	4.1	4.1	4.1	3.7	3.7	3.3	3.3	2.9	2.5	2.1	1.7
150°	3.7	3.7	3.3	3.3	3.3	2.9	2.5	2.5	2.1	1.7	1.2
152.5°	2.9	2.9	2.9	2.9	2.5	2.5	2.1	2.1	1.7	1.2	1.2
155°	2.5	2.5	2.5	2.1	2.1	2.1	1.7	1.7	1.2	1.2	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	798.7	798.3	802.0	801.6	796.7	804.1	809.1
5°	796.7	796.2	799.6	800.4	795.0	802.9	808.3
7.5°	795.0	794.6	798.3	799.6	794.2	801.2	807.0
10°	795.4	793.3	796.7	797.5	792.5	800.0	805.0
12.5°	798.3	793.3	794.6	794.6	790.0	796.7	802.0
15°	805.4	795.0	793.3	792.1	786.3	792.5	797.9
17.5°	813.3	799.1	793.3	789.2	782.1	787.5	793.3
20°	821.1	803.7	794.2	787.5	778.0	783.0	787.1
22.5°	824.9	807.9	795.0	785.0	773.0	775.5	780.1
25°	819.9	806.2	793.3	781.3	766.8	767.2	770.9
27.5°	801.6	797.9	789.6	777.6	761.8	759.7	762.6
30°	770.5	780.9	781.3	772.6	756.0	751.8	753.1
32.5°	726.9	750.2	763.9	762.2	747.7	741.9	742.7
35°	676.7	705.8	735.7	745.6	735.2	730.7	729.0
37.5°	616.6	655.6	695.4	719.9	718.2	715.3	713.7
40°	550.2	597.1	644.4	683.4	695.4	695.4	696.2
42.5°	479.2	534.0	585.9	635.2	663.5	669.7	672.2
45°	410.8	466.0	522.4	579.2	617.0	636.5	643.5
47.5°	348.5	404.1	457.7	519.9	570.1	595.4	606.6
50°	295.4	336.9	393.3	455.2	509.9	541.1	563.1
52.5°	251.4	283.8	333.2	390.9	446.0	488.8	509.1
55°	214.5	236.5	278.4	328.2	380.9	425.3	448.9
57.5°	183.4	200.8	229.5	270.9	315.3	359.3	384.6
60°	156.0	168.0	187.5	220.3	258.1	295.8	320.3
62.5°	132.4	140.2	153.1	177.2	206.6	236.1	258.9
65°	114.1	117.4	124.5	139.4	161.8	184.2	203.7
67.5°	96.3	98.3	103.7	112.9	124.1	140.2	153.1
70°	83.0	83.0	83.4	88.8	94.6	105.0	114.1
72.5°	72.2	71.0	68.5	69.7	71.0	76.8	82.6
75°	63.5	60.6	56.4	54.8	53.9	54.8	58.1
77.5°	56.0	51.9	46.9	42.7	39.4	38.2	41.1
80°	49.8	44.8	39.0	33.6	28.2	25.3	26.6
82.5°	44.8	38.6	32.4	26.1	19.9	15.8	15.8
85°	39.4	33.6	27.0	20.3	14.1	8.7	7.9
87.5°	35.7	29.5	22.4	16.2	10.0	4.6	2.5
90°	31.9	25.7	19.1	12.9	7.1	2.1	0.0
92.5°	28.6	22.8	16.6	10.4	5.0	1.2	0.0
95°	25.7	20.3	14.1	8.7	4.1	0.8	0.4
97.5°	22.8	17.8	12.4	7.1	2.9	0.8	0.4
100°	20.7	15.8	10.8	5.8	2.5	0.4	0.4
102.5°	18.3	14.1	9.1	5.0	2.1	0.4	0.4
105°	16.2	12.4	7.9	4.1	1.7	0.4	0.4
107.5°	14.5	10.8	7.1	3.7	1.7	0.4	0.4
110°	12.9	9.5	6.2	3.3	1.2	0.4	0.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-22SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	11.6	8.3	5.4	2.9	0.8	0.4	0.4
115°	10.0	7.5	4.6	2.5	0.8	0.4	0.4
117.5°	8.7	6.2	4.1	2.1	0.8	0.4	0.4
120°	7.5	5.4	3.3	1.7	0.4	0.4	0.4
122.5°	6.6	4.6	2.9	1.7	0.4	0.4	0.4
125°	5.8	4.1	2.5	1.2	0.4	0.4	0.4
127.5°	5.0	3.3	2.1	0.8	0.4	0.4	0.4
130°	4.1	2.9	1.7	0.8	0.4	0.4	0.4
132.5°	3.3	2.5	1.7	0.8	0.4	0.4	0.4
135°	2.9	2.1	1.2	0.8	0.4	0.4	0.4
137.5°	2.5	1.7	0.8	0.8	0.8	0.4	0.4
140°	2.1	1.2	0.8	0.8	0.8	0.8	0.4
142.5°	1.7	1.2	0.8	0.8	0.8	0.8	0.4
145°	1.2	0.8	0.8	0.8	0.8	0.8	0.4
147.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.4
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)