

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-LD5-16SL-LW-UNV-L950-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 (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

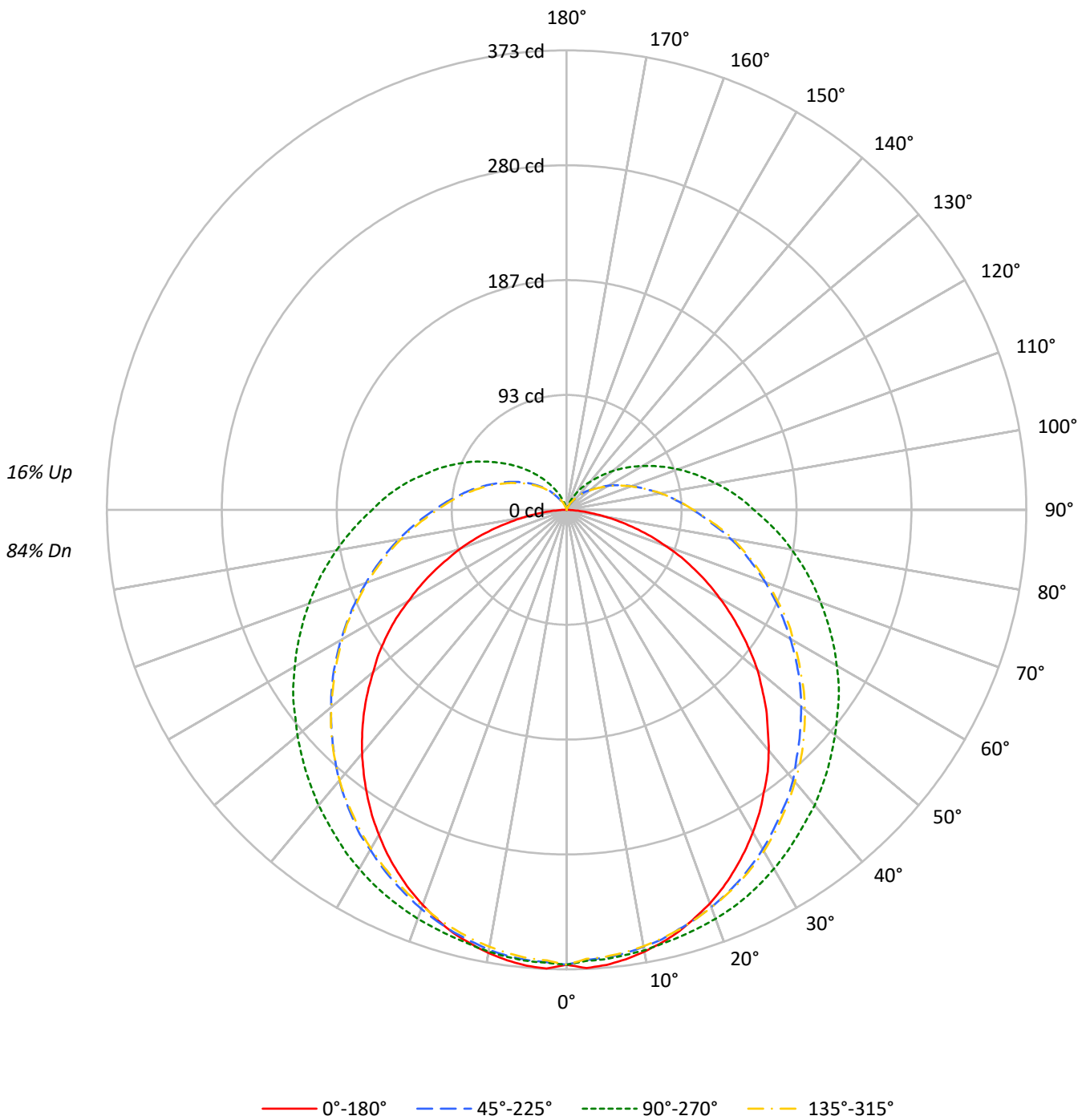
Lumens per Lamp: N/A
Luminaire Lumens: 1604.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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: 25 FT



TEST NUMBER: P#
CATALOG NUMBER: 2SNLED-LD5-16SL-LW-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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR	0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84	84	84	84	84	84	84	84	84	84	84	84																
	1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64	64	64	64	64	64	64	64	64	64	64	64																
	2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51	51	51	51	51	51	51	51	51	51	51	51																
	3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42	42	42	42	42	42	42	42	42	42	42	42																
	4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35	35	35	35	35	35	35	35	35	35	35	35																
	5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30	30	30	30	30	30	30	30	30	30	30	30																
	6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26	26	26	26	26	26	26	26	26	26	26	26																
	7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23	23	23	23	23	23	23	23	23	23	23	23																
	8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20	20	20	20	20	20	20	20	20	20	20	20																
	9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18	18	18	18	18	18	18	18	18	18	18	18																
	10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16	16	16	16	16	16	16	16	16	16	16	16																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5967	5967	5967	5967
5°	5983	5751	5994	5774
10°	5910	5587	5930	5604
15°	5826	5447	5852	5453
20°	5718	5345	5738	5345
25°	5588	5254	5621	5248
30°	5443	5161	5485	5161
35°	5278	5075	5336	5081
40°	5114	5024	5176	5024
45°	4926	4971	5002	4977
50°	4729	4939	4792	4953
55°	4462	4944	4605	4966
60°	4180	4958	4317	4989
65°	3861	5009	4033	5057
70°	3424	5102	3690	5174
75°	2917	5267	3195	5368
80°	2165	5515	2460	5643
85°	1179	5910	1471	6074



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	2.2
10°-20°	100.5	6.3
20°-30°	154.1	9.6
30°-40°	190.1	11.9
40°-50°	206.3	12.9
50°-60°	203.3	12.7
60°-70°	183.8	11.5
70°-80°	153.1	9.5
80°-90°	118.6	7.4
90°-100°	90.0	5.6
100°-110°	66.6	4.2
110°-120°	46.3	2.9
120°-130°	29.5	1.8
130°-140°	16.6	1.0
140°-150°	7.6	0.5
150°-160°	2.3	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	289.6	18.1
0°-40°	479.7	29.9
0°-60°	889.3	55.4
0°-90°	1344.9	83.8
90°-120°	202.8	12.6
90°-150°	256.5	16.0
90°-180°	259.0	16.1
0°-180°	1604.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	369	369	369	369	369	
5°	371	366	372	368	371	35
15°	354	358	356	359	354	100
25°	322	346	324	346	322	149
35°	279	325	282	325	279	175
45°	229	299	232	300	229	176
55°	172	270	178	271	172	154
65°	114	236	120	239	114	113
75°	58	202	63	206	58	61
85°	11	169	14	173	11	13
90°	0	152	1	158	0	1
95°	0	138	0	144	0	0
105°	0	109	0	116	0	0
115°	0	83	0	91	0	0
125°	0	60	0	67	0	0
135°	0	39	0	46	0	0
145°	0	23	0	28	0	0
155°	0	9	0	13	0	0
165°	0	2	0	2	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	372.3	372.3	371.9	371.1	371.5	372.7	371.9	370.0	368.8	365.7	366.5
5°	370.8	370.8	370.4	369.6	370.0	371.5	370.8	369.2	367.6	364.9	366.1
7.5°	368.0	368.0	367.6	366.9	367.6	369.2	368.4	366.9	365.7	363.0	364.1
10°	364.1	364.5	364.1	363.0	364.5	366.1	365.7	363.7	362.6	360.2	361.4
12.5°	359.5	359.8	359.5	359.1	359.8	362.2	361.4	359.8	359.1	357.1	358.3
15°	354.0	354.4	353.6	353.6	354.4	356.7	356.7	355.2	354.4	352.4	354.8
17.5°	347.0	347.4	347.0	347.0	347.8	350.1	350.5	349.7	348.9	348.2	350.5
20°	340.0	339.6	339.6	339.2	340.8	344.3	343.9	343.9	343.1	343.1	345.8
22.5°	331.8	331.8	331.4	331.4	333.4	336.5	336.5	337.3	336.5	338.0	340.4
25°	322.5	322.8	322.5	323.2	324.8	328.3	328.7	329.9	330.2	331.8	334.5
27.5°	312.7	313.1	312.7	313.5	316.2	319.0	320.9	322.5	322.8	325.2	328.7
30°	302.2	302.2	302.6	303.4	306.5	310.8	312.3	314.3	314.3	318.2	321.7
32.5°	291.3	291.3	291.3	292.9	296.4	301.4	303.4	305.7	306.5	310.4	314.3
35°	279.2	279.6	279.6	280.8	285.5	290.5	293.3	296.0	297.5	302.2	306.1
37.5°	267.9	268.7	267.5	269.1	275.7	280.0	283.1	285.9	288.6	294.8	297.9
40°	255.1	255.9	255.5	258.6	264.0	269.5	273.0	275.7	279.6	285.9	289.4
42.5°	241.5	242.2	243.0	246.5	252.4	257.8	262.1	265.6	270.3	275.7	281.6
45°	229.0	229.0	230.2	234.4	240.7	246.5	251.6	255.5	260.9	266.8	272.6
47.5°	215.0	215.4	216.9	222.0	228.6	235.6	240.3	245.4	251.2	257.4	264.0
50°	202.1	202.1	204.5	209.9	216.1	223.9	229.0	234.8	241.1	248.5	255.1
52.5°	187.3	188.1	191.6	196.7	204.8	211.9	217.7	223.9	231.3	239.1	246.5
55°	172.5	174.1	176.8	183.8	192.4	199.0	206.0	213.8	220.8	229.4	238.0
57.5°	158.1	159.3	163.6	170.6	179.5	187.7	195.1	202.5	211.1	219.6	228.6
60°	143.3	144.9	149.9	156.9	166.7	175.3	183.8	191.6	200.6	209.5	218.9
62.5°	129.3	130.5	136.3	144.5	154.2	163.6	172.1	181.5	191.2	199.8	209.1
65°	114.5	116.4	123.1	130.5	141.8	151.1	160.8	171.0	181.1	190.4	199.4
67.5°	100.9	102.0	109.0	117.6	128.9	139.4	149.5	160.5	171.0	180.7	189.7
70°	84.9	88.8	95.8	104.8	116.8	127.7	138.6	149.9	161.2	171.4	179.9
72.5°	71.7	74.8	82.6	92.3	104.0	116.8	128.1	140.2	151.5	162.0	171.0
75°	57.6	60.8	69.7	80.6	92.7	106.3	118.0	130.5	142.1	152.7	162.0
77.5°	44.0	47.9	57.6	68.9	82.2	96.2	108.3	120.7	132.8	144.1	153.4
80°	31.5	35.8	46.3	59.2	72.0	86.1	99.3	111.8	123.8	135.1	144.9
82.5°	20.3	24.9	36.2	49.1	62.7	76.7	90.4	102.8	114.9	126.2	136.3
85°	10.9	16.0	27.7	40.5	54.1	68.2	81.8	95.0	106.7	117.2	128.1
87.5°	3.1	9.3	20.6	33.5	47.5	60.4	73.6	86.8	98.5	109.8	119.6
90°	0.4	5.5	15.6	27.7	41.3	53.7	67.0	79.4	91.1	102.4	112.2
92.5°	0.4	3.5	12.1	23.0	35.4	48.3	61.5	73.6	84.5	95.8	105.5
95°	0.4	2.7	9.7	19.5	31.2	43.2	55.7	67.4	78.7	89.2	98.9
97.5°	0.4	1.9	7.8	16.7	27.3	38.6	50.6	62.3	73.2	83.3	92.3
100°	0.4	1.6	6.2	14.4	23.8	34.7	45.6	56.9	67.4	77.1	86.5
102.5°	0.4	1.2	5.5	12.1	21.0	30.8	41.3	51.8	61.9	71.3	80.6
105°	0.4	1.2	4.7	10.5	18.7	27.7	37.4	47.5	56.9	65.8	74.4
107.5°	0.4	0.8	3.9	9.0	16.4	24.9	33.9	43.6	52.2	60.8	68.9
110°	0.4	0.8	3.1	8.2	14.4	22.2	30.8	39.7	47.9	56.1	63.9



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.8	2.7	7.0	12.5	19.9	27.7	35.8	43.6	51.8	58.8
115°	0.4	0.8	2.3	6.2	11.7	17.1	24.9	32.3	40.1	47.5	54.1
117.5°	0.4	0.8	1.9	5.1	10.1	15.6	21.8	29.2	36.2	43.2	49.5
120°	0.4	0.8	1.6	4.7	9.0	14.0	19.5	26.1	32.7	39.3	46.0
122.5°	0.4	0.4	1.6	3.9	7.8	12.5	17.9	23.0	29.2	35.4	41.3
125°	0.4	0.4	1.6	3.5	6.6	11.3	16.0	20.6	26.1	31.5	36.6
127.5°	0.4	0.4	1.2	2.7	5.8	9.7	14.0	19.1	23.0	28.0	33.1
130°	0.4	0.4	1.2	2.3	5.1	8.2	12.5	16.7	21.4	24.9	29.2
132.5°	0.4	0.4	1.2	1.9	3.9	6.6	10.5	14.4	18.7	22.6	26.1
135°	0.4	0.4	0.8	1.6	3.1	5.5	8.6	12.1	16.4	20.3	23.8
137.5°	0.4	0.4	0.8	1.6	2.3	4.7	6.6	9.7	13.6	17.1	20.6
140°	0.4	0.4	0.8	1.2	1.9	3.5	5.5	7.8	10.9	14.0	17.9
142.5°	0.4	0.4	0.4	1.2	1.6	2.7	4.3	6.2	8.6	11.3	14.4
145°	0.4	0.4	0.4	1.2	1.6	1.9	3.5	5.1	6.6	8.6	11.3
147.5°	0.4	0.4	0.4	0.8	1.2	1.6	2.7	3.9	5.1	6.6	8.2
150°	0.4	0.4	0.4	0.8	1.2	1.6	1.9	2.7	3.9	5.5	6.6
152.5°	0.4	0.4	0.4	0.8	0.8	1.2	1.6	1.9	2.7	3.9	4.7
155°	0.4	0.4	0.4	0.4	0.8	1.2	1.6	1.6	1.9	2.7	3.5
157.5°	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	1.6	1.6	2.3
160°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	1.2	1.2
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.2
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
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°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	366.5	366.9	368.0	368.0	367.2	367.2	366.9	366.5	366.9	367.6	367.6
5°	365.7	366.1	367.2	367.6	366.9	366.5	366.5	366.1	366.5	367.2	367.2
7.5°	364.1	364.5	365.7	366.1	365.3	365.3	364.9	364.5	365.3	365.7	365.7
10°	361.8	362.2	363.7	364.1	363.7	363.4	363.4	363.0	363.4	364.1	364.1
12.5°	358.7	359.5	361.4	361.4	361.4	361.0	361.0	360.6	361.0	361.8	361.4
15°	355.2	356.7	358.3	359.1	359.1	359.1	358.7	358.3	359.1	359.5	359.1
17.5°	351.3	353.2	355.6	356.3	356.3	356.7	356.3	356.0	356.7	356.7	356.3
20°	347.4	349.3	351.7	352.4	353.2	353.6	353.6	353.2	353.6	354.0	353.6
22.5°	342.3	344.7	347.4	348.6	349.3	350.1	350.1	350.1	350.5	350.9	350.1
25°	336.9	339.6	342.7	343.9	345.4	345.8	346.2	346.2	346.6	347.0	345.8
27.5°	331.0	334.1	337.3	339.2	340.4	341.2	341.2	341.5	341.9	342.3	341.2
30°	324.0	328.7	331.4	333.0	334.5	335.7	336.1	336.5	336.9	337.3	336.1
32.5°	317.8	321.7	325.2	327.1	329.1	330.6	331.0	331.0	331.8	331.8	330.6
35°	310.4	315.1	318.6	320.5	322.8	324.0	324.8	324.8	325.6	325.6	324.4
37.5°	303.0	307.7	311.6	313.9	316.6	318.2	318.6	318.6	319.3	319.3	317.8
40°	295.2	300.3	304.5	307.3	309.6	311.6	311.9	313.1	313.1	312.7	311.2
42.5°	287.4	292.1	296.8	299.9	303.0	304.9	305.7	306.1	306.1	305.7	304.5
45°	278.8	284.3	288.6	292.5	295.6	297.5	298.7	299.1	299.1	298.3	297.1
47.5°	270.7	276.1	280.4	284.7	287.8	290.1	291.3	291.7	291.3	290.9	289.7
50°	262.1	268.3	272.6	276.9	280.0	282.0	283.9	284.3	283.9	283.5	281.2
52.5°	253.1	259.8	264.4	268.7	272.2	274.6	276.1	276.5	276.5	275.7	274.2
55°	244.2	250.0	255.9	260.5	264.4	266.8	268.7	269.5	268.7	267.9	266.0
57.5°	236.0	241.5	247.3	252.4	256.3	259.4	260.9	261.7	260.9	259.8	257.8
60°	226.3	232.1	238.7	243.4	247.7	250.8	251.6	253.1	252.4	251.2	249.2
62.5°	216.9	223.9	229.8	235.6	239.1	242.6	244.2	245.0	244.2	243.0	241.1
65°	207.2	215.0	220.8	226.7	230.6	234.1	236.0	236.4	235.6	234.4	232.5
67.5°	198.2	205.6	211.9	218.1	221.6	225.1	227.0	227.8	227.0	225.5	223.5
70°	189.3	196.7	204.1	208.7	213.0	216.9	218.1	219.3	218.5	216.9	214.6
72.5°	180.3	188.1	195.5	200.2	204.8	208.4	209.9	211.1	210.3	208.7	206.0
75°	171.0	179.1	186.5	191.6	196.3	199.8	201.3	202.5	201.7	200.2	197.1
77.5°	162.4	170.6	177.6	183.0	187.7	190.8	193.6	193.9	193.2	191.6	188.5
80°	153.4	161.6	169.0	174.5	179.1	182.3	184.2	185.4	184.6	183.0	179.9
82.5°	145.7	153.1	160.5	165.9	170.6	174.5	176.0	177.2	176.8	174.5	172.1
85°	137.1	145.7	151.5	157.3	162.0	165.9	167.1	168.6	168.2	166.3	163.2
87.5°	128.5	137.1	144.1	149.9	154.2	157.3	159.3	160.1	159.7	157.7	154.2
90°	121.5	129.3	136.3	142.5	146.0	149.5	151.5	151.9	151.9	149.5	146.8
92.5°	114.9	122.3	129.3	135.1	139.4	142.5	144.1	144.9	144.5	142.5	139.4
95°	107.5	115.7	122.3	128.1	132.4	135.5	137.1	137.9	137.5	135.5	132.4
97.5°	101.3	108.7	115.3	120.7	125.0	128.1	129.7	130.5	130.5	128.5	125.4
100°	95.0	102.4	108.7	114.1	118.0	121.1	122.7	123.1	122.7	121.1	118.0
102.5°	88.8	95.8	102.0	107.1	111.4	114.1	115.7	116.1	116.1	114.1	111.0
105°	82.6	89.6	95.4	100.9	104.4	107.1	108.3	109.4	109.0	107.5	104.4
107.5°	76.7	83.7	89.2	94.2	97.8	100.5	101.6	102.8	102.4	100.9	97.8
110°	71.3	77.9	83.0	88.0	91.1	93.9	95.8	96.2	95.4	93.9	91.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	66.2	72.0	77.1	81.8	85.3	87.2	88.8	89.6	88.8	87.2	85.3
115°	60.8	66.6	71.7	75.9	79.1	81.4	82.6	83.3	82.6	81.0	79.1
117.5°	55.7	61.1	66.2	70.5	73.2	75.2	76.3	77.1	76.3	75.2	73.2
120°	51.4	56.1	60.8	64.6	67.8	69.3	70.5	71.3	70.9	69.3	67.4
122.5°	46.3	51.4	55.7	59.6	62.3	63.9	64.6	65.4	65.0	63.9	61.9
125°	42.1	46.3	50.6	54.1	56.9	58.4	59.2	60.0	59.6	58.4	56.1
127.5°	37.4	42.1	45.6	49.1	51.0	53.4	53.7	54.5	54.1	53.0	51.0
130°	33.9	37.4	40.9	44.0	46.3	47.9	48.7	49.1	48.3	47.5	45.6
132.5°	29.6	33.5	36.6	39.3	40.9	42.4	43.2	43.6	43.6	42.4	40.9
135°	26.5	29.2	31.9	34.7	36.2	37.8	38.6	38.9	38.6	37.8	36.2
137.5°	23.8	26.1	28.0	30.4	32.3	33.1	33.9	33.9	33.5	33.1	31.9
140°	20.6	23.4	25.3	26.9	28.4	28.8	29.6	29.6	29.2	28.8	28.0
142.5°	17.5	19.9	21.8	23.8	24.9	25.7	26.1	26.5	26.1	25.7	24.5
145°	14.0	16.7	18.7	19.9	21.4	21.8	22.2	22.6	22.2	21.8	20.6
147.5°	10.9	13.2	15.2	16.7	17.9	18.3	18.7	19.1	18.7	17.9	17.5
150°	7.8	9.7	12.1	13.6	14.4	15.2	15.2	15.2	15.6	14.8	14.0
152.5°	6.2	7.0	8.6	10.1	11.3	11.7	12.1	12.1	11.7	11.7	10.9
155°	4.3	5.1	6.2	7.4	8.6	9.0	9.3	9.3	9.0	9.0	8.6
157.5°	2.7	3.5	4.3	5.1	6.2	6.6	7.0	7.0	7.0	6.6	6.2
160°	1.6	1.9	2.3	3.1	3.9	4.3	4.7	4.7	4.7	4.7	4.3
162.5°	1.2	1.2	1.2	1.6	1.9	2.3	2.7	2.7	2.7	2.7	2.3
165°	0.8	0.8	0.8	0.8	0.8	1.2	1.6	1.6	1.6	1.6	1.6
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-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	367.2	367.2	367.6	366.9	364.5	364.9	364.9	366.5	367.2	367.6	369.6
5°	366.5	366.5	367.2	366.1	364.1	364.1	364.1	365.7	366.1	366.9	368.4
7.5°	365.3	365.3	365.7	364.5	362.2	362.2	361.8	363.4	364.1	364.5	366.1
10°	363.4	363.4	363.7	362.6	359.8	359.8	359.5	360.6	361.0	361.8	363.0
12.5°	360.6	360.6	360.6	359.5	356.7	356.3	356.0	357.1	357.1	357.5	358.7
15°	358.3	357.5	357.5	356.3	353.6	352.8	352.1	352.4	353.2	352.8	353.6
17.5°	355.6	354.8	354.0	352.8	349.3	348.2	347.4	347.8	347.4	347.0	347.8
20°	352.4	351.3	350.9	348.9	345.4	343.5	341.9	341.2	341.5	340.4	340.8
22.5°	348.9	347.4	346.6	344.3	340.8	338.4	336.5	334.9	334.5	333.0	333.4
25°	344.7	342.7	341.5	339.6	335.7	333.0	330.6	328.3	327.1	325.2	324.8
27.5°	339.6	337.6	336.1	334.1	330.2	326.7	324.0	320.9	319.3	317.0	315.8
30°	334.5	332.2	329.9	328.3	324.0	320.1	315.8	313.1	310.8	308.1	306.1
32.5°	328.3	326.0	323.6	321.3	317.4	312.7	309.2	304.9	302.2	299.1	296.8
35°	322.1	319.0	316.6	313.5	310.0	304.5	300.3	296.0	292.5	289.0	286.2
37.5°	315.1	312.7	309.2	306.5	302.2	296.8	292.1	286.6	283.5	278.8	275.3
40°	308.4	305.7	302.2	298.7	294.4	288.2	283.1	276.9	273.4	267.9	264.4
42.5°	301.8	297.9	294.4	290.5	285.9	280.0	273.8	267.5	262.9	257.8	252.7
45°	294.4	290.1	285.9	281.6	276.9	271.1	264.4	257.8	252.0	247.3	241.1
47.5°	286.6	282.3	277.3	272.6	267.5	261.7	254.7	247.7	241.5	236.0	229.4
50°	278.8	274.6	269.1	264.0	258.2	252.4	245.0	236.8	230.2	223.2	217.3
52.5°	270.7	266.4	261.3	254.7	248.5	242.6	234.8	226.3	218.9	213.0	205.6
55°	262.5	258.2	252.4	245.7	239.5	232.1	224.7	216.1	208.0	201.0	193.6
57.5°	253.9	250.0	243.4	238.0	230.2	222.4	214.6	206.4	197.4	189.3	180.7
60°	245.4	241.1	234.8	228.2	220.4	212.6	204.5	195.5	186.2	177.2	169.4
62.5°	237.6	232.1	226.3	219.3	211.1	203.7	194.3	184.6	175.3	165.9	156.6
65°	228.6	222.8	217.3	210.3	201.7	193.2	183.8	174.1	164.0	153.8	144.5
67.5°	219.6	213.8	208.0	201.0	192.0	183.0	173.3	163.6	152.3	142.5	131.6
70°	210.7	206.0	198.6	191.2	183.0	173.3	163.6	153.1	141.4	130.9	119.6
72.5°	201.7	197.1	189.7	181.9	174.1	164.0	153.4	142.9	132.0	119.9	107.9
75°	193.2	187.3	180.7	173.3	165.1	154.6	144.1	133.2	120.3	109.0	96.6
77.5°	185.0	179.5	172.9	164.7	155.8	145.7	134.7	123.5	110.6	98.5	84.9
80°	176.0	170.6	164.0	155.8	146.8	137.1	125.4	113.7	101.3	88.0	74.0
82.5°	167.5	162.4	155.0	147.6	137.9	128.1	116.4	104.8	91.5	78.7	65.0
85°	158.5	153.4	146.4	138.6	129.3	118.8	107.9	96.2	83.0	69.7	56.1
87.5°	150.7	144.9	137.9	130.1	120.7	110.6	100.1	87.6	74.8	61.9	47.9
90°	142.5	137.1	130.1	122.3	112.9	102.8	91.9	80.2	67.8	54.5	41.3
92.5°	135.5	129.7	123.1	115.3	105.9	96.2	85.3	73.6	61.5	48.7	35.8
95°	128.5	122.7	116.4	108.7	99.3	89.6	78.7	67.4	55.7	43.2	31.2
97.5°	120.7	115.7	109.4	102.0	92.7	83.3	72.8	61.9	50.6	38.6	27.3
100°	114.5	108.7	102.8	95.0	86.5	77.5	67.0	56.5	45.6	34.3	23.8
102.5°	107.5	102.0	96.2	88.8	80.2	71.3	61.5	51.4	41.3	30.8	20.6
105°	100.9	95.8	89.6	82.6	74.4	65.8	56.5	47.1	37.4	27.3	18.3
107.5°	94.2	89.2	83.3	76.7	68.9	60.4	51.8	42.4	33.5	24.5	16.4
110°	87.6	83.0	77.5	70.9	63.5	55.7	47.5	38.9	30.0	21.8	14.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	81.8	77.1	71.7	65.4	58.4	51.0	43.2	35.1	26.9	19.5	12.5
115°	75.9	71.7	66.2	60.8	53.7	46.7	39.3	31.5	24.1	17.5	10.9
117.5°	70.1	65.8	60.8	55.3	49.1	42.4	35.4	28.0	21.8	15.6	9.7
120°	64.3	60.4	55.7	50.6	45.2	38.6	31.5	25.3	19.5	13.6	8.6
122.5°	58.8	55.3	51.0	46.3	40.5	34.3	28.4	23.0	17.5	12.1	7.0
125°	53.7	50.2	46.3	41.7	36.2	30.8	25.7	20.6	15.2	10.5	5.8
127.5°	48.7	45.2	41.3	37.0	32.7	27.7	23.0	18.3	13.6	9.3	5.1
130°	43.6	40.5	37.0	33.5	29.2	24.5	20.6	16.0	11.7	7.4	4.3
132.5°	38.6	36.2	33.1	29.6	25.7	22.2	17.9	14.0	10.1	6.6	3.9
135°	34.3	31.9	29.2	26.1	23.0	19.5	15.6	12.1	8.6	5.5	3.1
137.5°	30.4	28.4	25.7	23.0	20.3	16.7	13.6	10.1	7.0	4.7	2.3
140°	26.9	24.9	22.6	19.9	17.5	14.4	11.3	8.2	6.2	3.9	1.9
142.5°	23.4	21.4	19.5	17.1	14.8	12.1	9.3	7.0	5.1	3.1	1.9
145°	19.9	18.3	16.4	14.4	12.1	9.7	7.8	5.8	3.9	2.3	1.6
147.5°	16.4	15.2	13.2	11.7	9.7	7.8	6.2	4.7	3.1	1.9	1.2
150°	13.2	12.1	10.5	9.0	7.8	6.2	5.1	3.5	2.3	1.9	1.2
152.5°	10.1	9.3	8.2	7.4	6.2	4.7	3.5	2.7	1.9	1.6	0.8
155°	8.2	7.4	6.6	5.5	4.7	3.5	2.7	1.9	1.6	1.2	0.8
157.5°	5.8	5.5	4.7	3.9	3.1	2.3	1.9	1.9	1.2	0.8	0.4
160°	3.9	3.5	3.1	2.3	1.9	1.9	1.6	1.2	0.8	0.8	0.4
162.5°	2.3	1.9	1.9	1.9	1.6	1.6	1.2	0.8	0.8	0.4	0.4
165°	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.4	0.4	0.4	0.4
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-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	369.6	368.4	370.0	372.7	373.1	372.7	371.9	373.1	374.6	374.3	371.5
5°	368.8	367.2	368.8	371.5	371.5	371.1	370.8	371.9	373.5	373.1	370.8
7.5°	366.5	364.9	366.5	368.8	369.2	368.4	368.4	369.6	371.1	370.8	368.8
10°	363.4	361.8	362.6	365.3	366.1	365.3	365.3	366.5	368.4	368.0	365.7
12.5°	358.7	357.5	358.3	360.6	361.4	361.0	360.6	362.2	364.1	364.1	361.8
15°	353.6	352.1	352.8	355.6	356.0	355.2	355.6	356.7	359.1	359.1	357.1
17.5°	347.8	345.8	347.0	348.9	349.3	349.3	349.3	350.9	353.6	353.2	351.7
20°	341.2	338.4	339.2	341.2	341.9	341.9	341.9	344.7	346.6	346.6	345.0
22.5°	333.4	331.4	331.4	333.4	334.5	334.1	334.1	336.5	339.2	338.8	338.8
25°	324.4	322.8	322.1	324.4	324.8	325.2	326.0	328.3	331.4	331.4	331.8
27.5°	315.1	313.5	313.1	315.1	315.5	315.8	316.6	319.3	322.5	322.8	323.6
30°	306.1	303.8	303.0	304.5	305.3	305.7	305.7	310.0	312.7	313.9	315.5
32.5°	295.6	293.3	291.3	294.0	294.4	295.2	295.6	299.9	303.0	304.9	307.3
35°	285.1	281.2	280.4	282.3	283.1	283.5	284.3	289.0	293.3	294.8	297.9
37.5°	273.4	270.7	268.3	270.3	271.1	271.4	273.8	278.1	282.3	284.7	287.8
40°	262.5	259.0	257.0	258.2	259.0	259.4	262.1	266.8	271.8	274.6	278.5
42.5°	250.4	245.7	244.2	245.4	245.7	246.9	249.2	255.5	260.5	264.4	267.5
45°	238.3	234.8	231.3	232.5	232.9	233.7	237.2	243.8	249.2	253.9	257.4
47.5°	225.9	221.6	218.1	218.9	220.4	220.8	224.7	232.5	237.6	242.6	247.3
50°	213.4	207.6	204.8	204.8	205.6	207.6	212.6	220.4	225.9	231.7	236.8
52.5°	200.6	195.1	192.0	192.4	193.2	195.5	200.2	208.0	214.2	220.4	226.7
55°	187.7	181.9	178.8	178.0	178.8	181.9	187.3	195.5	201.7	209.1	215.8
57.5°	174.9	167.9	165.1	164.0	164.7	168.6	174.1	182.6	190.4	197.4	205.2
60°	160.8	155.4	150.7	148.0	149.9	155.0	160.8	169.8	178.0	185.8	194.3
62.5°	148.8	141.8	136.7	134.0	135.9	140.2	148.4	156.9	165.9	174.9	183.4
65°	135.1	128.1	122.3	119.6	121.5	126.6	134.7	144.1	153.8	162.8	172.9
67.5°	121.9	114.5	107.5	104.8	107.1	112.5	121.5	132.0	142.5	151.9	162.8
70°	109.0	100.9	93.5	91.5	93.1	100.5	109.0	119.6	130.5	141.4	152.7
72.5°	97.4	87.2	79.4	77.1	79.1	87.2	97.0	107.9	119.6	131.2	143.3
75°	83.7	74.4	65.8	63.1	65.4	72.8	84.9	96.6	109.0	121.5	132.8
77.5°	72.8	61.9	53.0	48.7	52.6	61.9	73.6	86.1	98.9	111.8	124.6
80°	61.5	50.2	40.5	35.8	40.1	50.2	61.9	75.6	90.0	102.8	114.5
82.5°	51.4	39.3	29.2	24.1	28.8	40.1	53.0	66.6	80.6	93.5	107.1
85°	42.1	29.6	19.1	13.6	20.3	30.4	44.0	58.0	72.4	85.7	98.9
87.5°	34.3	22.2	11.7	5.8	12.5	23.8	36.6	50.6	65.0	78.3	90.7
90°	28.0	16.0	6.2	0.8	7.4	17.9	30.4	44.0	57.6	71.3	83.7
92.5°	23.0	12.1	3.5	0.4	4.7	14.4	26.1	38.9	52.2	65.4	77.5
95°	19.1	9.3	2.3	0.4	3.5	11.3	22.2	34.7	47.1	60.0	72.0
97.5°	16.4	7.8	1.9	0.4	2.7	9.7	19.1	30.8	42.8	54.9	66.6
100°	14.0	6.2	1.6	0.4	2.3	8.2	16.7	27.3	38.6	50.2	61.5
102.5°	12.1	5.1	1.2	0.4	1.9	7.0	14.8	24.5	34.7	46.0	56.9
105°	10.5	4.3	1.2	0.4	1.6	6.2	13.2	21.8	31.9	42.1	52.6
107.5°	9.0	3.5	0.8	0.4	1.2	5.1	11.7	19.9	28.8	38.6	48.3
110°	7.8	3.1	0.8	0.4	1.2	4.7	10.1	17.9	26.1	35.1	44.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.6	2.3	0.8	0.4	0.8	3.9	9.0	16.0	23.8	31.9	40.9
115°	5.8	1.9	0.4	0.4	0.8	3.5	8.2	14.4	21.4	29.2	37.4
117.5°	4.7	1.6	0.4	0.4	0.4	2.7	7.0	12.9	19.5	26.9	34.3
120°	3.9	1.6	0.4	0.4	0.4	2.3	6.2	11.3	17.5	24.1	31.2
122.5°	3.5	1.2	0.4	0.4	0.4	1.9	5.5	10.1	15.6	21.8	28.4
125°	3.1	1.2	0.4	0.4	0.4	1.6	4.7	9.0	14.0	19.5	25.7
127.5°	2.3	1.2	0.4	0.4	0.4	1.2	4.3	7.8	12.5	17.5	23.0
130°	1.9	0.8	0.4	0.4	0.4	1.2	3.5	7.0	10.9	15.6	20.6
132.5°	1.6	0.8	0.4	0.4	0.4	0.8	2.7	5.5	9.3	13.6	18.3
135°	1.6	0.8	0.4	0.4	0.4	0.8	1.9	4.7	7.8	11.7	15.6
137.5°	1.6	0.4	0.4	0.4	0.4	0.8	1.6	3.5	6.2	9.3	12.9
140°	1.2	0.4	0.4	0.4	0.4	0.4	1.2	2.7	5.1	7.8	10.9
142.5°	1.2	0.4	0.4	0.4	0.4	0.4	1.2	1.9	3.9	6.2	8.6
145°	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.6	3.1	4.7	7.0
147.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2	2.3	3.9	5.5
150°	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.7	4.3
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.9	2.7
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	1.9
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.6
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	370.4	367.6	368.4	368.0	368.8	370.0	370.0	369.6	369.6	368.8	368.0
5°	369.6	366.9	368.0	367.6	368.4	369.6	369.6	369.2	369.2	368.0	367.6
7.5°	367.2	365.3	366.1	366.1	366.9	368.0	368.0	367.6	367.6	366.5	366.1
10°	364.9	362.6	363.7	363.7	364.5	366.1	366.1	365.7	365.7	364.5	364.1
12.5°	361.0	358.7	360.6	361.0	361.8	363.4	363.0	363.0	363.0	361.8	361.4
15°	356.3	354.8	356.7	357.1	358.3	360.2	360.2	360.2	360.2	359.1	358.7
17.5°	351.3	350.1	352.1	352.8	354.4	356.3	356.3	356.7	357.1	356.3	356.0
20°	345.4	344.7	346.6	348.2	350.5	352.4	353.2	353.6	354.4	353.6	353.2
22.5°	338.8	338.8	341.5	343.1	345.8	347.8	348.9	350.1	350.9	350.1	349.7
25°	331.4	332.6	335.3	338.0	341.2	343.1	344.3	345.8	346.6	346.2	345.8
27.5°	324.4	326.0	329.5	332.2	334.9	338.0	339.2	341.2	341.9	341.9	341.5
30°	316.2	318.6	322.5	325.6	329.1	332.2	333.8	335.7	336.9	336.1	336.5
32.5°	308.4	312.3	315.5	319.0	322.8	326.0	327.9	330.2	331.4	331.0	331.4
35°	299.9	303.8	308.1	311.6	316.2	319.3	322.1	324.0	325.6	325.2	325.2
37.5°	290.5	295.6	299.9	304.5	308.8	312.3	315.1	317.4	319.0	319.0	319.0
40°	281.6	287.0	291.3	296.8	302.2	305.3	308.4	310.8	312.3	312.7	313.1
42.5°	271.8	277.7	282.7	288.6	294.0	297.9	301.4	304.2	305.7	306.5	306.1
45°	262.9	268.3	274.2	280.8	285.9	289.7	294.0	297.1	298.7	299.1	299.5
47.5°	252.7	259.0	265.6	272.2	277.3	282.3	286.2	289.4	290.9	292.1	292.1
50°	243.0	249.6	257.0	264.0	269.5	274.6	278.5	282.0	283.9	284.7	285.1
52.5°	234.1	240.3	248.1	255.1	260.5	265.6	270.7	274.6	276.5	277.3	277.3
55°	223.2	230.9	239.5	246.1	252.0	257.8	262.9	266.8	268.7	269.9	270.7
57.5°	213.0	221.2	230.2	237.2	244.2	249.6	254.3	259.4	260.9	262.5	262.9
60°	203.3	211.5	220.0	227.8	234.8	240.7	246.1	250.4	253.1	253.9	254.7
62.5°	193.2	201.7	210.7	218.5	225.9	232.9	238.0	241.8	245.0	246.1	246.9
65°	183.4	192.4	201.3	209.5	217.3	224.3	229.4	233.3	236.4	238.3	238.7
67.5°	172.9	182.6	192.0	200.6	208.4	215.8	220.8	224.7	227.8	230.2	230.6
70°	163.2	173.3	182.6	192.0	199.8	207.2	212.6	216.5	220.0	221.6	222.4
72.5°	153.8	164.3	174.1	183.4	191.2	198.6	204.5	208.4	211.9	213.8	214.2
75°	144.9	155.4	165.9	174.9	183.0	190.4	196.3	200.6	203.7	205.6	206.4
77.5°	135.9	146.8	157.3	166.3	174.9	182.3	187.3	192.4	195.5	197.8	197.8
80°	127.0	138.3	149.2	158.1	166.7	173.3	179.1	184.2	187.3	189.7	189.7
82.5°	119.2	130.1	140.6	149.5	158.1	165.5	171.4	176.0	179.5	181.1	181.5
85°	110.2	122.3	132.0	141.8	149.9	156.9	162.8	167.9	171.0	172.5	173.3
87.5°	102.8	114.5	125.0	133.6	141.8	148.8	155.4	159.7	162.8	164.7	165.5
90°	95.8	107.1	117.6	126.2	134.7	141.4	147.6	151.9	155.4	156.9	157.7
92.5°	89.6	100.9	111.0	119.6	127.7	135.1	141.0	145.3	148.4	149.9	151.1
95°	83.7	94.6	104.4	113.7	121.5	128.1	134.4	138.6	142.1	143.3	144.5
97.5°	77.9	88.4	98.1	107.1	115.3	121.5	127.3	131.6	134.4	136.3	137.5
100°	72.8	83.0	92.3	100.9	108.7	114.5	120.7	124.6	127.3	128.9	130.5
102.5°	67.4	77.5	86.5	94.6	102.8	108.3	114.1	118.0	120.3	123.1	123.1
105°	62.7	72.0	81.0	88.8	95.8	102.4	107.5	111.4	114.1	116.1	116.1
107.5°	57.6	67.0	75.6	83.7	90.4	96.6	101.3	104.8	107.9	109.0	110.2
110°	53.7	61.9	70.5	78.3	84.5	90.4	95.0	98.9	101.6	102.8	103.6



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	49.1	57.6	65.4	72.8	79.1	84.5	89.2	92.3	95.0	96.6	97.0
115°	45.2	53.4	60.4	67.4	74.0	78.7	83.0	86.1	88.8	90.0	90.7
117.5°	41.7	49.1	56.1	61.9	68.2	73.2	77.5	80.2	82.6	84.1	84.9
120°	38.2	45.2	51.4	57.2	63.1	67.8	71.7	74.4	77.1	78.3	78.3
122.5°	34.7	41.3	47.1	52.6	58.0	62.3	66.6	68.9	71.3	72.4	72.4
125°	31.5	37.8	43.2	48.3	53.4	57.2	60.8	63.5	65.8	66.6	66.6
127.5°	28.4	34.3	39.3	44.0	48.3	52.2	55.7	58.4	60.4	61.1	61.1
130°	25.7	30.8	35.4	40.1	44.4	47.5	51.0	53.4	54.5	55.7	56.1
132.5°	23.0	27.7	31.9	35.8	40.1	43.2	46.0	48.3	49.5	50.6	51.0
135°	20.3	24.5	28.4	32.3	35.8	38.9	41.3	43.2	44.8	45.6	46.0
137.5°	17.1	21.8	25.3	28.4	32.3	34.7	37.4	38.6	40.1	40.9	40.9
140°	14.4	17.9	21.8	24.9	28.0	30.4	32.7	34.7	35.8	36.2	36.2
142.5°	11.7	14.8	17.9	21.8	24.5	26.5	28.8	30.4	31.2	31.5	31.9
145°	9.3	11.7	14.4	17.9	21.0	23.4	24.5	26.1	26.9	27.3	27.7
147.5°	7.0	9.3	11.7	14.0	17.1	19.5	20.6	22.2	23.0	23.4	23.4
150°	5.5	7.0	8.6	10.9	13.2	16.0	17.5	18.7	19.1	19.5	19.5
152.5°	3.9	5.5	6.6	8.2	9.7	12.1	14.4	15.2	15.6	16.0	16.0
155°	2.7	3.9	4.7	5.8	7.0	9.0	10.9	12.1	12.5	12.9	12.9
157.5°	1.9	2.7	3.1	4.3	5.1	5.8	7.4	9.3	9.7	9.7	9.7
160°	1.2	1.6	1.9	2.7	3.1	3.9	4.7	5.8	7.0	7.0	7.0
162.5°	0.8	1.2	1.2	1.6	1.6	2.3	2.7	3.1	4.3	4.7	4.7
165°	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.9	2.3	2.3
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-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	368.4	369.2	368.8	368.8	368.8	369.6	368.8	365.3	366.1	366.9	367.6
5°	368.0	368.4	368.4	368.0	368.0	368.8	368.0	364.5	365.3	366.1	366.5
7.5°	366.5	366.9	366.9	366.9	366.5	367.2	366.1	363.0	363.0	363.7	364.1
10°	364.5	365.3	364.9	364.5	364.5	364.5	363.7	360.2	360.2	360.6	361.0
12.5°	362.2	362.2	362.2	361.8	361.4	361.4	360.6	357.1	356.7	357.5	357.1
15°	359.1	359.8	359.1	358.7	357.9	357.9	356.7	353.2	352.4	352.8	352.4
17.5°	356.3	356.7	356.0	355.2	354.4	354.0	352.8	348.9	347.8	348.2	347.4
20°	353.6	353.6	352.8	352.1	350.9	349.7	348.2	344.3	342.3	342.3	340.8
22.5°	350.1	350.1	349.3	348.2	347.0	345.4	343.9	340.0	336.9	336.1	334.9
25°	346.2	345.8	345.4	344.3	341.9	340.4	338.8	334.5	331.0	329.5	327.5
27.5°	341.5	341.5	340.4	339.2	336.9	334.9	333.0	329.1	324.4	322.5	319.7
30°	336.5	336.5	335.3	333.8	331.4	329.1	326.7	322.1	317.4	314.7	311.6
32.5°	331.4	331.0	329.9	328.3	326.0	322.5	320.5	315.8	310.4	307.3	303.0
35°	325.2	324.8	323.6	321.7	318.6	315.8	312.7	308.4	302.2	298.3	293.6
37.5°	319.0	318.6	317.8	315.1	311.9	308.8	304.9	300.7	294.8	289.7	285.1
40°	312.7	312.3	310.8	308.8	304.9	301.0	297.1	292.9	286.6	280.8	275.7
42.5°	306.1	305.7	303.8	301.4	297.1	293.3	288.6	283.9	277.7	270.7	265.6
45°	299.5	298.7	296.8	294.0	289.4	285.1	280.4	274.9	268.7	262.1	255.5
47.5°	292.5	291.3	289.4	285.5	281.6	276.9	271.4	265.6	259.4	252.0	245.0
50°	284.7	283.9	281.6	278.1	273.4	268.7	262.5	256.6	249.2	242.2	233.7
52.5°	277.3	275.7	273.8	269.9	265.2	260.1	253.5	246.5	239.1	232.5	223.5
55°	269.5	268.7	266.0	262.9	257.0	251.2	245.0	237.6	229.4	221.6	213.0
57.5°	262.1	260.5	258.2	253.9	248.9	243.0	236.4	228.6	219.6	211.5	202.1
60°	254.7	252.4	249.6	245.7	240.3	234.1	227.0	218.9	209.9	201.0	191.2
62.5°	246.5	244.6	241.5	237.6	232.1	225.5	218.1	209.5	201.0	191.6	181.1
65°	238.3	236.4	233.3	229.4	223.9	216.5	208.7	200.2	190.4	181.5	170.2
67.5°	230.2	228.2	224.7	220.4	215.0	208.0	199.8	190.8	181.1	171.4	159.7
70°	222.0	219.6	216.5	211.9	206.4	199.0	190.8	181.5	171.7	161.2	149.5
72.5°	213.8	211.9	208.0	203.7	197.8	190.4	182.3	172.9	162.8	151.9	140.2
75°	205.6	203.3	200.6	195.5	189.3	182.3	173.7	164.3	153.4	142.9	130.9
77.5°	197.4	195.5	192.0	186.9	181.1	173.7	165.1	155.8	144.9	134.0	121.1
80°	189.3	186.9	184.2	179.5	172.9	165.5	156.6	147.2	136.3	125.0	112.2
82.5°	181.1	178.8	175.6	171.0	164.7	157.3	148.8	138.6	127.7	116.1	104.0
85°	172.9	171.0	167.5	162.8	156.2	148.8	140.2	131.2	119.6	107.9	95.8
87.5°	164.7	162.8	159.3	154.6	148.4	141.0	132.4	123.1	111.8	100.9	87.6
90°	156.9	155.4	151.9	147.2	141.0	133.6	125.8	115.7	104.8	93.9	81.4
92.5°	149.9	148.4	145.3	140.6	135.1	127.0	119.2	109.4	98.5	87.2	75.2
95°	143.7	141.8	138.6	134.4	127.7	120.7	112.9	103.2	92.7	81.4	69.7
97.5°	136.7	134.7	131.6	127.0	121.5	114.1	106.3	97.0	86.5	75.9	64.3
100°	129.7	127.7	124.2	120.3	114.9	107.5	100.1	90.7	81.0	70.9	59.6
102.5°	122.7	120.7	117.6	113.7	108.3	101.6	94.2	85.3	75.6	65.4	54.9
105°	116.1	114.1	111.0	107.1	102.0	95.4	87.6	79.8	70.5	60.8	50.6
107.5°	109.4	107.5	104.8	100.9	95.8	89.6	82.2	74.0	65.4	56.1	46.3
110°	102.8	101.3	98.1	94.6	89.6	83.3	76.7	68.9	60.4	51.8	42.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	96.6	95.0	91.9	88.0	83.7	77.9	71.3	63.9	55.7	47.5	38.6
115°	90.4	88.4	85.7	82.2	77.9	72.4	66.2	59.6	51.4	43.6	35.4
117.5°	84.1	82.6	79.8	76.3	72.4	67.0	61.1	54.9	47.1	39.7	32.3
120°	77.9	76.7	74.0	70.9	67.0	61.9	56.5	50.2	43.2	36.2	29.2
122.5°	72.0	70.9	68.2	65.4	61.5	56.9	51.8	46.0	39.7	33.1	26.9
125°	66.6	65.0	62.7	60.0	56.5	52.2	47.1	41.7	35.8	30.0	24.1
127.5°	60.8	59.6	58.0	54.9	51.4	47.5	42.8	38.2	32.7	27.3	21.8
130°	56.1	54.5	52.6	50.2	47.1	43.2	38.9	34.3	29.6	24.5	19.1
132.5°	50.6	49.1	47.5	45.2	42.4	38.9	35.1	30.8	26.5	21.8	17.1
135°	45.6	44.4	42.8	40.5	37.8	35.1	31.2	27.3	23.4	19.1	15.2
137.5°	40.9	39.7	38.2	36.6	33.9	31.2	27.7	24.1	20.6	16.7	13.2
140°	36.2	35.4	33.9	32.3	30.0	27.3	24.1	21.0	17.9	14.4	11.3
142.5°	31.5	30.8	29.6	28.0	26.1	23.8	21.0	18.3	15.2	12.5	9.7
145°	27.3	26.9	25.7	24.1	22.6	20.3	17.9	15.6	12.9	10.5	7.8
147.5°	23.0	22.6	21.8	20.6	19.1	17.1	15.2	12.9	10.9	8.6	6.2
150°	19.1	18.7	18.3	16.7	16.0	14.0	12.5	10.5	9.0	6.6	5.1
152.5°	15.6	15.6	14.8	13.6	12.9	11.3	10.1	8.6	7.0	5.5	3.9
155°	12.5	12.1	11.7	10.9	10.1	9.0	7.8	6.6	5.5	3.9	2.7
157.5°	9.7	9.3	9.0	8.2	7.4	7.0	5.8	4.7	3.5	2.7	1.9
160°	7.0	6.6	6.2	5.8	5.5	4.7	3.9	3.1	2.3	1.6	1.2
162.5°	4.7	4.3	4.3	3.9	3.5	2.7	2.3	1.9	1.6	1.2	0.8
165°	2.3	2.3	1.9	1.9	1.6	1.2	1.2	1.2	0.8	0.8	0.4
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-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	367.2	367.2	368.8	368.4	367.2	369.6	372.3
5°	366.1	366.1	367.2	367.2	366.1	368.4	370.8
7.5°	364.1	363.7	364.9	364.9	363.4	365.3	368.0
10°	360.6	360.2	361.4	361.4	359.8	361.8	364.1
12.5°	356.7	356.0	357.1	356.7	355.2	357.1	359.5
15°	351.7	351.3	352.1	351.3	349.7	351.7	354.0
17.5°	346.6	345.4	345.8	345.8	343.1	345.0	347.0
20°	340.0	338.4	338.8	338.4	336.5	337.6	340.0
22.5°	333.4	331.0	331.0	330.6	328.3	329.9	331.8
25°	325.2	322.5	322.5	322.1	319.3	320.5	322.5
27.5°	317.0	314.3	313.1	312.7	310.0	310.0	312.7
30°	308.4	304.5	303.8	302.6	299.9	299.9	302.2
32.5°	300.3	294.8	293.3	291.7	289.0	288.6	291.3
35°	289.4	285.1	282.3	280.8	277.7	276.9	279.2
37.5°	280.4	274.9	271.1	269.1	266.0	264.8	267.9
40°	270.7	264.8	259.8	258.6	253.9	252.4	255.1
42.5°	259.8	253.5	248.5	246.1	242.6	241.1	241.5
45°	248.9	242.2	236.8	233.7	230.2	227.4	229.0
47.5°	237.6	231.7	225.1	220.4	216.1	214.2	215.0
50°	226.3	219.3	213.0	208.0	202.9	200.6	202.1
52.5°	215.0	207.6	200.6	195.1	189.3	186.9	187.3
55°	204.1	196.3	188.1	182.3	176.8	173.3	172.5
57.5°	193.2	184.6	176.0	169.4	162.4	159.3	158.1
60°	181.5	172.5	163.6	155.8	148.4	144.9	143.3
62.5°	170.6	160.8	150.7	142.5	135.1	130.5	129.3
65°	160.1	148.8	138.6	129.3	121.1	116.1	114.5
67.5°	148.8	137.1	126.2	116.1	108.3	101.6	100.9
70°	138.3	125.8	113.7	103.2	94.6	88.0	84.9
72.5°	127.7	114.9	102.4	91.1	80.2	74.0	71.7
75°	117.6	104.4	91.1	79.4	67.4	60.0	57.6
77.5°	108.3	94.6	80.6	67.8	56.5	47.1	44.0
80°	99.3	85.3	70.5	57.2	45.2	35.1	31.5
82.5°	90.0	76.7	61.5	47.5	35.1	24.5	20.3
85°	81.8	68.5	53.4	39.3	26.9	15.6	10.9
87.5°	75.2	60.8	47.1	33.1	20.3	9.0	3.1
90°	68.5	54.5	40.9	27.3	15.2	5.1	0.4
92.5°	62.7	49.5	35.8	23.4	11.7	3.5	0.4
95°	57.2	44.4	31.5	19.5	9.3	2.3	0.4
97.5°	52.2	40.1	28.0	16.7	7.8	1.9	0.4
100°	47.9	36.2	24.9	14.8	6.6	1.6	0.4
102.5°	43.6	32.7	22.2	12.9	5.8	1.2	0.4
105°	40.1	29.6	19.9	11.7	5.1	1.2	0.4
107.5°	36.6	26.9	17.9	10.1	4.3	0.8	0.4
110°	33.1	24.5	16.0	9.0	3.9	0.8	0.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	30.4	22.2	14.4	8.2	3.1	0.8	0.4
115°	27.7	19.9	12.9	7.0	2.7	0.4	0.4
117.5°	24.9	17.9	11.3	6.2	2.3	0.4	0.4
120°	22.6	16.0	10.1	5.5	1.9	0.4	0.4
122.5°	20.3	14.4	9.0	4.7	1.6	0.4	0.4
125°	18.3	12.9	7.8	3.9	1.2	0.4	0.4
127.5°	16.4	11.3	7.0	3.5	1.2	0.4	0.4
130°	14.4	10.1	5.8	2.7	0.8	0.4	0.4
132.5°	12.9	8.6	5.1	2.3	0.8	0.4	0.4
135°	11.3	7.4	4.3	1.6	0.8	0.4	0.4
137.5°	9.7	6.2	3.5	1.2	0.4	0.4	0.4
140°	8.2	5.5	2.7	1.2	0.4	0.4	0.4
142.5°	7.0	4.3	1.9	0.8	0.4	0.4	0.4
145°	5.5	3.5	1.6	0.8	0.4	0.4	0.4
147.5°	4.3	2.7	1.2	0.8	0.4	0.4	0.4
150°	3.1	1.9	1.2	0.4	0.4	0.4	0.4
152.5°	2.3	1.6	0.8	0.4	0.4	0.4	0.4
155°	1.6	1.2	0.8	0.4	0.4	0.4	0.4
157.5°	1.2	0.8	0.4	0.4	0.4	0.4	0.4
160°	0.8	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)