

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-LD5-30HL-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-LD5-30HL-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: 2727.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

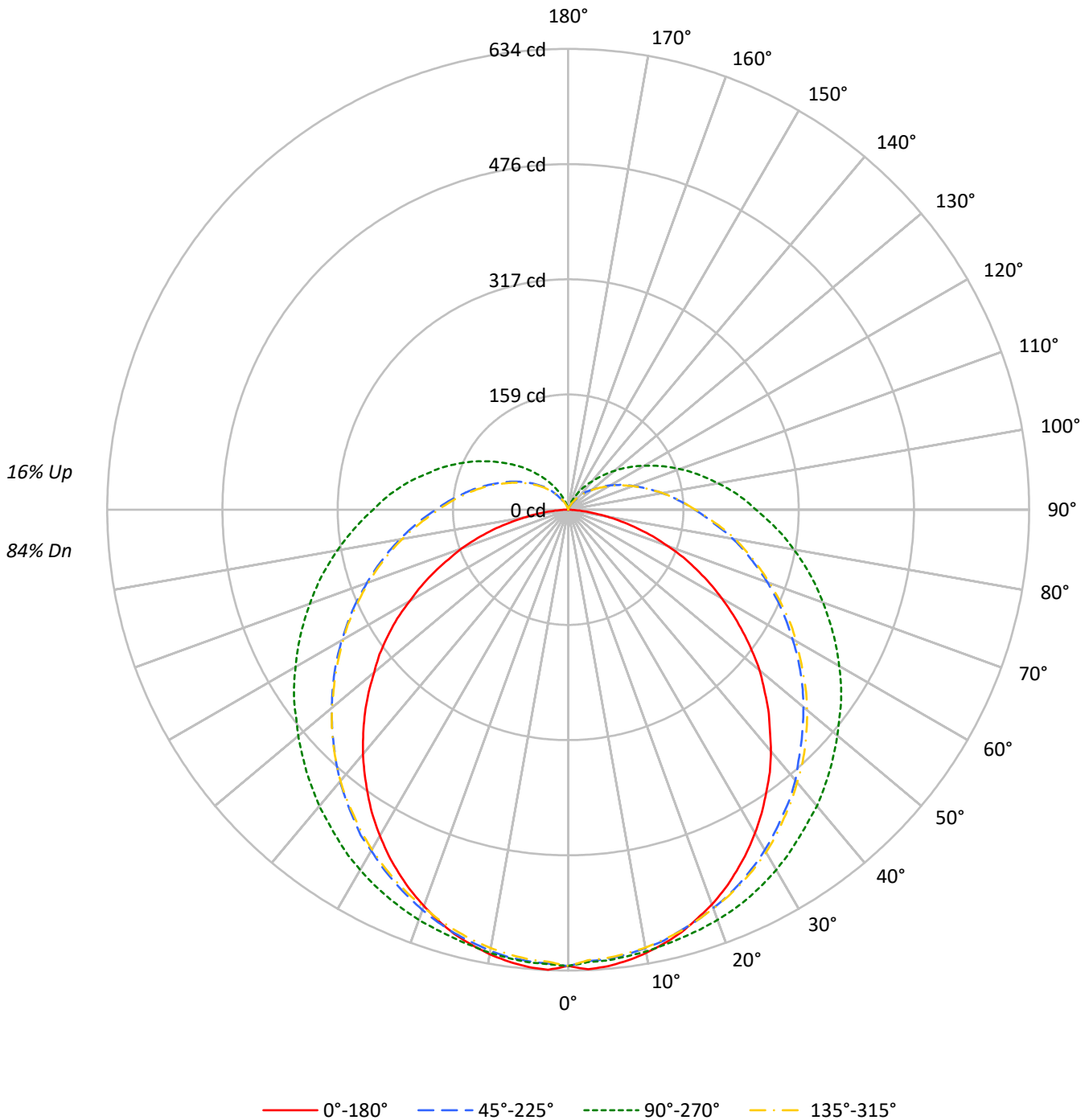
Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10145	10145	10145	10145
5°	10170	9777	10191	9817
10°	10050	9499	10082	9530
15°	9905	9260	9948	9271
20°	9720	9087	9754	9087
25°	9499	8933	9556	8922
30°	9255	8775	9327	8775
35°	8973	8627	9073	8638
40°	8694	8540	8801	8540
45°	8375	8450	8504	8462
50°	8040	8396	8150	8420
55°	7587	8405	7828	8442
60°	7108	8431	7338	8482
65°	6566	8515	6856	8600
70°	5820	8672	6275	8796
75°	4962	8955	5433	9127
80°	3683	9376	4185	9590
85°	2001	10049	2509	10326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	2.2
10°-20°	170.9	6.3
20°-30°	262.0	9.6
30°-40°	323.2	11.9
40°-50°	350.7	12.9
50°-60°	345.6	12.7
60°-70°	312.5	11.5
70°-80°	260.3	9.5
80°-90°	201.6	7.4
90°-100°	152.9	5.6
100°-110°	113.2	4.2
110°-120°	78.7	2.9
120°-130°	50.2	1.8
130°-140°	28.2	1.0
140°-150°	12.9	0.5
150°-160°	4.0	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	492.4	18.1
0°-40°	815.6	29.9
0°-60°	1511.9	55.4
0°-90°	2286.4	83.8
90°-120°	344.8	12.6
90°-150°	436.1	16.0
90°-180°	441.0	16.2
0°-180°	2727.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	628	628	628	628	628	
5°	630	622	632	625	630	60
15°	602	609	604	610	602	170
25°	548	589	552	588	548	253
35°	475	552	480	553	475	297
45°	389	508	395	509	389	300
55°	293	458	303	460	293	263
65°	195	402	203	406	195	193
75°	98	344	107	351	98	104
85°	18	287	23	295	18	22
90°	1	258	1	268	1	1
95°	1	234	1	246	1	1
105°	1	186	1	197	1	1
115°	1	142	1	154	1	1
125°	1	102	1	113	1	1
135°	1	66	1	78	1	1
145°	1	38	1	47	1	0
155°	1	16	1	22	1	0
165°	1	3	1	4	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	633.0	633.0	632.3	631.0	631.6	633.6	632.3	629.0	627.0	621.7	623.0
5°	630.3	630.3	629.7	628.3	629.0	631.6	630.3	627.7	625.0	620.4	622.4
7.5°	625.7	625.7	625.0	623.7	625.0	627.7	626.4	623.7	621.7	617.1	619.1
10°	619.1	619.7	619.1	617.1	619.7	622.4	621.7	618.4	616.4	612.4	614.4
12.5°	611.1	611.8	611.1	610.5	611.8	615.8	614.4	611.8	610.5	607.2	609.1
15°	601.9	602.5	601.2	601.2	602.5	606.5	606.5	603.8	602.5	599.2	603.2
17.5°	589.9	590.6	589.9	589.9	591.3	595.2	595.9	594.6	593.2	591.9	595.9
20°	578.0	577.4	577.4	576.7	579.3	585.3	584.6	584.6	583.3	583.3	587.9
22.5°	564.1	564.1	563.5	563.5	566.8	572.1	572.1	573.4	572.1	574.7	578.7
25°	548.2	548.9	548.2	549.5	552.2	558.2	558.8	560.8	561.5	564.1	568.7
27.5°	531.7	532.3	531.7	533.0	537.6	542.3	545.6	548.2	548.9	552.9	558.8
30°	513.8	513.8	514.5	515.8	521.1	528.4	531.0	534.3	534.3	540.9	546.9
32.5°	495.3	495.3	495.3	497.9	503.9	512.5	515.8	519.8	521.1	527.7	534.3
35°	474.7	475.4	475.4	477.4	485.3	493.9	498.6	503.2	505.8	513.8	520.4
37.5°	455.5	456.9	454.9	457.5	468.8	476.1	481.4	486.0	490.6	501.2	506.5
40°	433.7	435.0	434.3	439.6	448.9	458.2	464.1	468.8	475.4	486.0	491.9
42.5°	410.5	411.8	413.2	419.1	429.0	438.3	445.6	451.6	459.5	468.8	478.7
45°	389.3	389.3	391.3	398.6	409.2	419.1	427.7	434.3	443.6	453.5	463.5
47.5°	365.5	366.1	368.8	377.4	388.7	400.6	408.5	417.1	427.1	437.7	448.9
50°	343.6	343.6	347.6	356.9	367.5	380.7	389.3	399.2	409.8	422.4	433.7
52.5°	318.5	319.8	325.8	334.4	348.3	360.2	370.1	380.7	393.3	406.5	419.1
55°	293.3	296.0	300.6	312.5	327.1	338.3	350.3	363.5	375.4	390.0	404.5
57.5°	268.8	270.8	278.1	290.0	305.2	319.1	331.7	344.3	358.9	373.4	388.7
60°	243.7	246.3	254.9	266.8	283.4	297.9	312.5	325.8	341.0	356.2	372.1
62.5°	219.8	221.8	231.7	245.6	262.2	278.1	292.7	308.5	325.1	339.7	355.6
65°	194.7	198.0	209.2	221.8	241.0	256.9	273.4	290.7	307.9	323.8	339.0
67.5°	171.5	173.5	185.4	200.0	219.2	237.0	254.2	272.8	290.7	307.2	322.4
70°	144.3	151.0	162.9	178.1	198.6	217.2	235.7	254.9	274.1	291.3	305.9
72.5°	121.8	127.1	140.4	156.9	176.8	198.6	217.8	238.4	257.6	275.4	290.7
75°	98.0	103.3	118.5	137.1	157.6	180.8	200.6	221.8	241.7	259.5	275.4
77.5°	74.8	81.4	98.0	117.2	139.7	163.5	184.1	205.3	225.8	245.0	260.9
80°	53.6	60.9	78.8	100.6	122.5	146.3	168.8	190.0	210.5	229.8	246.3
82.5°	34.4	42.4	61.6	83.4	106.6	130.4	153.6	174.8	195.3	214.5	231.7
85°	18.5	27.1	47.0	68.9	92.0	115.9	139.0	161.6	181.4	199.3	217.8
87.5°	5.3	15.9	35.1	56.9	80.8	102.6	125.1	147.6	167.5	186.7	203.3
90°	0.7	9.3	26.5	47.0	70.2	91.4	113.9	135.1	154.9	174.1	190.7
92.5°	0.7	6.0	20.5	39.1	60.3	82.1	104.6	125.1	143.7	162.9	179.4
95°	0.7	4.6	16.6	33.1	53.0	73.5	94.7	114.5	133.7	151.6	168.2
97.5°	0.7	3.3	13.2	28.5	46.3	65.5	86.1	105.9	124.5	141.7	156.9
100°	0.7	2.6	10.6	24.5	40.4	58.9	77.5	96.7	114.5	131.1	147.0
102.5°	0.7	2.0	9.3	20.5	35.8	52.3	70.2	88.1	105.3	121.2	137.1
105°	0.7	2.0	7.9	17.9	31.8	47.0	63.6	80.8	96.7	111.9	126.5
107.5°	0.7	1.3	6.6	15.2	27.8	42.4	57.6	74.2	88.7	103.3	117.2
110°	0.7	1.3	5.3	13.9	24.5	37.7	52.3	67.5	81.4	95.3	108.6



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	1.3	4.6	11.9	21.2	33.8	47.0	60.9	74.2	88.1	100.0
115°	0.7	1.3	4.0	10.6	19.9	29.1	42.4	55.0	68.2	80.8	92.0
117.5°	0.7	1.3	3.3	8.6	17.2	26.5	37.1	49.7	61.6	73.5	84.1
120°	0.7	1.3	2.6	7.9	15.2	23.8	33.1	44.4	55.6	66.9	78.1
122.5°	0.7	0.7	2.6	6.6	13.2	21.2	30.5	39.1	49.7	60.3	70.2
125°	0.7	0.7	2.6	6.0	11.3	19.2	27.1	35.1	44.4	53.6	62.2
127.5°	0.7	0.7	2.0	4.6	9.9	16.6	23.8	32.4	39.1	47.7	56.3
130°	0.7	0.7	2.0	4.0	8.6	13.9	21.2	28.5	36.4	42.4	49.7
132.5°	0.7	0.7	2.0	3.3	6.6	11.3	17.9	24.5	31.8	38.4	44.4
135°	0.7	0.7	1.3	2.6	5.3	9.3	14.6	20.5	27.8	34.4	40.4
137.5°	0.7	0.7	1.3	2.6	4.0	7.9	11.3	16.6	23.2	29.1	35.1
140°	0.7	0.7	1.3	2.0	3.3	6.0	9.3	13.2	18.5	23.8	30.5
142.5°	0.7	0.7	0.7	2.0	2.6	4.6	7.3	10.6	14.6	19.2	24.5
145°	0.7	0.7	0.7	2.0	2.6	3.3	6.0	8.6	11.3	14.6	19.2
147.5°	0.7	0.7	0.7	1.3	2.0	2.6	4.6	6.6	8.6	11.3	13.9
150°	0.7	0.7	0.7	1.3	2.0	2.6	3.3	4.6	6.6	9.3	11.3
152.5°	0.7	0.7	0.7	1.3	1.3	2.0	2.6	3.3	4.6	6.6	7.9
155°	0.7	0.7	0.7	0.7	1.3	2.0	2.6	2.6	3.3	4.6	6.0
157.5°	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	2.6	2.6	4.0
160°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	2.0	2.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.0
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
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-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	623.0	623.7	625.7	625.7	624.4	624.4	623.7	623.0	623.7	625.0	625.0
5°	621.7	622.4	624.4	625.0	623.7	623.0	623.0	622.4	623.0	624.4	624.4
7.5°	619.1	619.7	621.7	622.4	621.1	621.1	620.4	619.7	621.1	621.7	621.7
10°	615.1	615.8	618.4	619.1	618.4	617.7	617.7	617.1	617.7	619.1	619.1
12.5°	609.8	611.1	614.4	614.4	614.4	613.8	613.8	613.1	613.8	615.1	614.4
15°	603.8	606.5	609.1	610.5	610.5	610.5	609.8	609.1	610.5	611.1	610.5
17.5°	597.2	600.5	604.5	605.8	605.8	606.5	605.8	605.2	606.5	606.5	605.8
20°	590.6	593.9	597.9	599.2	600.5	601.2	601.2	600.5	601.2	601.9	601.2
22.5°	582.0	586.0	590.6	592.6	593.9	595.2	595.2	595.2	595.9	596.6	595.2
25°	572.7	577.4	582.7	584.6	587.3	587.9	588.6	588.6	589.3	589.9	587.9
27.5°	562.8	568.1	573.4	576.7	578.7	580.0	580.0	580.7	581.3	582.0	580.0
30°	550.9	558.8	563.5	566.1	568.7	570.7	571.4	572.1	572.7	573.4	571.4
32.5°	540.3	546.9	552.9	556.2	559.5	562.1	562.8	562.8	564.1	564.1	562.1
35°	527.7	535.6	541.6	544.9	548.9	550.9	552.2	552.2	553.5	553.5	551.5
37.5°	515.1	523.1	529.7	533.7	538.3	540.9	541.6	541.6	542.9	542.9	540.3
40°	501.9	510.5	517.8	522.4	526.4	529.7	530.3	532.3	532.3	531.7	529.0
42.5°	488.6	496.6	504.5	509.8	515.1	518.4	519.8	520.4	520.4	519.8	517.8
45°	474.1	483.3	490.6	497.2	502.5	505.8	507.8	508.5	508.5	507.2	505.2
47.5°	460.2	469.4	476.7	484.0	489.3	493.3	495.3	495.9	495.3	494.6	492.6
50°	445.6	456.2	463.5	470.8	476.1	479.4	482.7	483.3	482.7	482.0	478.0
52.5°	430.4	441.6	449.6	456.9	462.8	466.8	469.4	470.1	470.1	468.8	466.1
55°	415.1	425.1	435.0	442.9	449.6	453.5	456.9	458.2	456.9	455.5	452.2
57.5°	401.2	410.5	420.4	429.0	435.7	441.0	443.6	444.9	443.6	441.6	438.3
60°	384.7	394.6	405.9	413.8	421.1	426.4	427.7	430.4	429.0	427.1	423.7
62.5°	368.8	380.7	390.6	400.6	406.5	412.5	415.1	416.5	415.1	413.2	409.8
65°	352.2	365.5	375.4	385.3	392.0	397.9	401.2	401.9	400.6	398.6	395.3
67.5°	337.0	349.6	360.2	370.8	376.7	382.7	386.0	387.3	386.0	383.4	380.0
70°	321.8	334.4	346.9	354.9	362.2	368.8	370.8	372.8	371.4	368.8	364.8
72.5°	306.6	319.8	332.4	340.3	348.3	354.2	356.9	358.9	357.5	354.9	350.3
75°	290.7	304.6	317.1	325.8	333.7	339.7	342.3	344.3	343.0	340.3	335.0
77.5°	276.1	290.0	301.9	311.2	319.1	324.4	329.1	329.7	328.4	325.8	320.5
80°	260.9	274.8	287.4	296.6	304.6	309.9	313.2	315.2	313.8	311.2	305.9
82.5°	247.6	260.2	272.8	282.1	290.0	296.6	299.3	301.3	300.6	296.6	292.7
85°	233.1	247.6	257.6	267.5	275.4	282.1	284.0	286.7	286.0	282.7	277.4
87.5°	218.5	233.1	245.0	254.9	262.2	267.5	270.8	272.1	271.5	268.2	262.2
90°	206.6	219.8	231.7	242.3	248.3	254.2	257.6	258.2	258.2	254.2	249.6
92.5°	195.3	207.9	219.8	229.8	237.0	242.3	245.0	246.3	245.6	242.3	237.0
95°	182.7	196.6	207.9	217.8	225.1	230.4	233.1	234.4	233.7	230.4	225.1
97.5°	172.1	184.7	196.0	205.3	212.5	217.8	220.5	221.8	221.8	218.5	213.2
100°	161.6	174.1	184.7	194.0	200.6	205.9	208.6	209.2	208.6	205.9	200.6
102.5°	151.0	162.9	173.5	182.1	189.4	194.0	196.6	197.3	197.3	194.0	188.7
105°	140.4	152.3	162.2	171.5	177.4	182.1	184.1	186.1	185.4	182.7	177.4
107.5°	130.4	142.4	151.6	160.2	166.2	170.8	172.8	174.8	174.1	171.5	166.2
110°	121.2	132.4	141.0	149.6	154.9	159.6	162.9	163.5	162.2	159.6	154.9



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	112.6	122.5	131.1	139.0	145.0	148.3	151.0	152.3	151.0	148.3	145.0
115°	103.3	113.2	121.8	129.1	134.4	138.4	140.4	141.7	140.4	137.7	134.4
117.5°	94.7	104.0	112.6	119.8	124.5	127.8	129.8	131.1	129.8	127.8	124.5
120°	87.4	95.3	103.3	109.9	115.2	117.9	119.8	121.2	120.5	117.9	114.5
122.5°	78.8	87.4	94.7	101.3	105.9	108.6	109.9	111.2	110.6	108.6	105.3
125°	71.5	78.8	86.1	92.0	96.7	99.3	100.6	102.0	101.3	99.3	95.3
127.5°	63.6	71.5	77.5	83.4	86.7	90.7	91.4	92.7	92.0	90.0	86.7
130°	57.6	63.6	69.5	74.8	78.8	81.4	82.8	83.4	82.1	80.8	77.5
132.5°	50.3	56.9	62.2	66.9	69.5	72.2	73.5	74.2	74.2	72.2	69.5
135°	45.0	49.7	54.3	58.9	61.6	64.2	65.5	66.2	65.5	64.2	61.6
137.5°	40.4	44.4	47.7	51.6	55.0	56.3	57.6	57.6	56.9	56.3	54.3
140°	35.1	39.7	43.0	45.7	48.3	49.0	50.3	50.3	49.7	49.0	47.7
142.5°	29.8	33.8	37.1	40.4	42.4	43.7	44.4	45.0	44.4	43.7	41.7
145°	23.8	28.5	31.8	33.8	36.4	37.1	37.7	38.4	37.7	37.1	35.1
147.5°	18.5	22.5	25.8	28.5	30.5	31.1	31.8	32.4	31.8	30.5	29.8
150°	13.2	16.6	20.5	23.2	24.5	25.8	25.8	25.8	26.5	25.2	23.8
152.5°	10.6	11.9	14.6	17.2	19.2	19.9	20.5	20.5	19.9	19.9	18.5
155°	7.3	8.6	10.6	12.6	14.6	15.2	15.9	15.9	15.2	15.2	14.6
157.5°	4.6	6.0	7.3	8.6	10.6	11.3	11.9	11.9	11.9	11.3	10.6
160°	2.6	3.3	4.0	5.3	6.6	7.3	7.9	7.9	7.9	7.9	7.3
162.5°	2.0	2.0	2.0	2.6	3.3	4.0	4.6	4.6	4.6	4.6	4.0
165°	1.3	1.3	1.3	1.3	1.3	2.0	2.6	2.6	2.6	2.6	2.6
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-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	624.4	624.4	625.0	623.7	619.7	620.4	620.4	623.0	624.4	625.0	628.3
5°	623.0	623.0	624.4	622.4	619.1	619.1	619.1	621.7	622.4	623.7	626.4
7.5°	621.1	621.1	621.7	619.7	615.8	615.8	615.1	617.7	619.1	619.7	622.4
10°	617.7	617.7	618.4	616.4	611.8	611.8	611.1	613.1	613.8	615.1	617.1
12.5°	613.1	613.1	613.1	611.1	606.5	605.8	605.2	607.2	607.2	607.8	609.8
15°	609.1	607.8	607.8	605.8	601.2	599.9	598.5	599.2	600.5	599.9	601.2
17.5°	604.5	603.2	601.9	599.9	593.9	591.9	590.6	591.3	590.6	589.9	591.3
20°	599.2	597.2	596.6	593.2	587.3	584.0	581.3	580.0	580.7	578.7	579.3
22.5°	593.2	590.6	589.3	585.3	579.3	575.4	572.1	569.4	568.7	566.1	566.8
25°	586.0	582.7	580.7	577.4	570.7	566.1	562.1	558.2	556.2	552.9	552.2
27.5°	577.4	574.0	571.4	568.1	561.5	555.5	550.9	545.6	542.9	539.0	537.0
30°	568.7	564.8	560.8	558.2	550.9	544.3	537.0	532.3	528.4	523.7	520.4
32.5°	558.2	554.2	550.2	546.2	539.6	531.7	525.7	518.4	513.8	508.5	504.5
35°	547.6	542.3	538.3	533.0	527.0	517.8	510.5	503.2	497.2	491.3	486.6
37.5°	535.6	531.7	525.7	521.1	513.8	504.5	496.6	487.3	482.0	474.1	468.1
40°	524.4	519.8	513.8	507.8	500.6	490.0	481.4	470.8	464.8	455.5	449.6
42.5°	513.1	506.5	500.6	493.9	486.0	476.1	465.5	454.9	446.9	438.3	429.7
45°	500.6	493.3	486.0	478.7	470.8	460.8	449.6	438.3	428.4	420.4	409.8
47.5°	487.3	480.0	471.4	463.5	454.9	444.9	433.0	421.1	410.5	401.2	390.0
50°	474.1	466.8	457.5	448.9	439.0	429.0	416.5	402.6	391.3	379.4	369.5
52.5°	460.2	452.9	444.3	433.0	422.4	412.5	399.2	384.7	372.1	362.2	349.6
55°	446.3	439.0	429.0	417.8	407.2	394.6	382.0	367.5	353.6	341.6	329.1
57.5°	431.7	425.1	413.8	404.5	391.3	378.1	364.8	350.9	335.7	321.8	307.2
60°	417.1	409.8	399.2	388.0	374.8	361.5	347.6	332.4	316.5	301.3	288.0
62.5°	403.9	394.6	384.7	372.8	358.9	346.3	330.4	313.8	297.9	282.1	266.2
65°	388.7	378.7	369.5	357.5	343.0	328.4	312.5	296.0	278.7	261.5	245.6
67.5°	373.4	363.5	353.6	341.6	326.4	311.2	294.6	278.1	258.9	242.3	223.8
70°	358.2	350.3	337.7	325.1	311.2	294.6	278.1	260.2	240.3	222.5	203.3
72.5°	343.0	335.0	322.4	309.2	296.0	278.7	260.9	243.0	224.5	203.9	183.4
75°	328.4	318.5	307.2	294.6	280.7	262.9	245.0	226.4	204.6	185.4	164.2
77.5°	314.5	305.2	294.0	280.1	264.8	247.6	229.1	209.9	188.0	167.5	144.3
80°	299.3	290.0	278.7	264.8	249.6	233.1	213.2	193.3	172.1	149.6	125.8
82.5°	284.7	276.1	263.5	250.9	234.4	217.8	198.0	178.1	155.6	133.7	110.6
85°	269.5	260.9	249.0	235.7	219.8	201.9	183.4	163.5	141.0	118.5	95.3
87.5°	256.2	246.3	234.4	221.1	205.3	188.0	170.2	149.0	127.1	105.3	81.4
90°	242.3	233.1	221.1	207.9	192.0	174.8	156.3	136.4	115.2	92.7	70.2
92.5°	230.4	220.5	209.2	196.0	180.1	163.5	145.0	125.1	104.6	82.8	60.9
95°	218.5	208.6	198.0	184.7	168.8	152.3	133.7	114.5	94.7	73.5	53.0
97.5°	205.3	196.6	186.1	173.5	157.6	141.7	123.8	105.3	86.1	65.5	46.3
100°	194.7	184.7	174.8	161.6	147.0	131.8	113.9	96.0	77.5	58.3	40.4
102.5°	182.7	173.5	163.5	151.0	136.4	121.2	104.6	87.4	70.2	52.3	35.1
105°	171.5	162.9	152.3	140.4	126.5	111.9	96.0	80.1	63.6	46.3	31.1
107.5°	160.2	151.6	141.7	130.4	117.2	102.6	88.1	72.2	56.9	41.7	27.8
110°	149.0	141.0	131.8	120.5	107.9	94.7	80.8	66.2	51.0	37.1	24.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	139.0	131.1	121.8	111.2	99.3	86.7	73.5	59.6	45.7	33.1	21.2
115°	129.1	121.8	112.6	103.3	91.4	79.5	66.9	53.6	41.1	29.8	18.5
117.5°	119.2	111.9	103.3	94.0	83.4	72.2	60.3	47.7	37.1	26.5	16.6
120°	109.2	102.6	94.7	86.1	76.8	65.5	53.6	43.0	33.1	23.2	14.6
122.5°	100.0	94.0	86.7	78.8	68.9	58.3	48.3	39.1	29.8	20.5	11.9
125°	91.4	85.4	78.8	70.8	61.6	52.3	43.7	35.1	25.8	17.9	9.9
127.5°	82.8	76.8	70.2	62.9	55.6	47.0	39.1	31.1	23.2	15.9	8.6
130°	74.2	68.9	62.9	56.9	49.7	41.7	35.1	27.1	19.9	12.6	7.3
132.5°	65.5	61.6	56.3	50.3	43.7	37.7	30.5	23.8	17.2	11.3	6.6
135°	58.3	54.3	49.7	44.4	39.1	33.1	26.5	20.5	14.6	9.3	5.3
137.5°	51.6	48.3	43.7	39.1	34.4	28.5	23.2	17.2	11.9	7.9	4.0
140°	45.7	42.4	38.4	33.8	29.8	24.5	19.2	13.9	10.6	6.6	3.3
142.5°	39.7	36.4	33.1	29.1	25.2	20.5	15.9	11.9	8.6	5.3	3.3
145°	33.8	31.1	27.8	24.5	20.5	16.6	13.2	9.9	6.6	4.0	2.6
147.5°	27.8	25.8	22.5	19.9	16.6	13.2	10.6	7.9	5.3	3.3	2.0
150°	22.5	20.5	17.9	15.2	13.2	10.6	8.6	6.0	4.0	3.3	2.0
152.5°	17.2	15.9	13.9	12.6	10.6	7.9	6.0	4.6	3.3	2.6	1.3
155°	13.9	12.6	11.3	9.3	7.9	6.0	4.6	3.3	2.6	2.0	1.3
157.5°	9.9	9.3	7.9	6.6	5.3	4.0	3.3	3.3	2.0	1.3	0.7
160°	6.6	6.0	5.3	4.0	3.3	3.3	2.6	2.0	1.3	1.3	0.7
162.5°	4.0	3.3	3.3	3.3	2.6	2.6	2.0	1.3	1.3	0.7	0.7
165°	2.6	2.6	2.6	2.0	2.0	2.0	1.3	0.7	0.7	0.7	0.7
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-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	628.3	626.4	629.0	633.6	634.3	633.6	632.3	634.3	636.9	636.3	631.6
5°	627.0	624.4	627.0	631.6	631.6	631.0	630.3	632.3	635.0	634.3	630.3
7.5°	623.0	620.4	623.0	627.0	627.7	626.4	626.4	628.3	631.0	630.3	627.0
10°	617.7	615.1	616.4	621.1	622.4	621.1	621.1	623.0	626.4	625.7	621.7
12.5°	609.8	607.8	609.1	613.1	614.4	613.8	613.1	615.8	619.1	619.1	615.1
15°	601.2	598.5	599.9	604.5	605.2	603.8	604.5	606.5	610.5	610.5	607.2
17.5°	591.3	587.9	589.9	593.2	593.9	593.9	593.9	596.6	601.2	600.5	597.9
20°	580.0	575.4	576.7	580.0	581.3	581.3	581.3	586.0	589.3	589.3	586.6
22.5°	566.8	563.5	563.5	566.8	568.7	568.1	568.1	572.1	576.7	576.0	576.0
25°	551.5	548.9	547.6	551.5	552.2	552.9	554.2	558.2	563.5	563.5	564.1
27.5°	535.6	533.0	532.3	535.6	536.3	537.0	538.3	542.9	548.2	548.9	550.2
30°	520.4	516.4	515.1	517.8	519.1	519.8	519.8	527.0	531.7	533.7	536.3
32.5°	502.5	498.6	495.3	499.9	500.6	501.9	502.5	509.8	515.1	518.4	522.4
35°	484.7	478.0	476.7	480.0	481.4	482.0	483.3	491.3	498.6	501.2	506.5
37.5°	464.8	460.2	456.2	459.5	460.8	461.5	465.5	472.7	480.0	484.0	489.3
40°	446.3	440.3	437.0	439.0	440.3	441.0	445.6	453.5	462.1	466.8	473.4
42.5°	425.7	417.8	415.1	417.1	417.8	419.8	423.7	434.3	442.9	449.6	454.9
45°	405.2	399.2	393.3	395.3	395.9	397.3	403.2	414.5	423.7	431.7	437.7
47.5°	384.0	376.7	370.8	372.1	374.8	375.4	382.0	395.3	403.9	412.5	420.4
50°	362.8	352.9	348.3	348.3	349.6	352.9	361.5	374.8	384.0	394.0	402.6
52.5°	341.0	331.7	326.4	327.1	328.4	332.4	340.3	353.6	364.2	374.8	385.3
55°	319.1	309.2	303.9	302.6	303.9	309.2	318.5	332.4	343.0	355.6	366.8
57.5°	297.3	285.4	280.7	278.7	280.1	286.7	296.0	310.5	323.8	335.7	348.9
60°	273.4	264.2	256.2	251.6	254.9	263.5	273.4	288.7	302.6	315.8	330.4
62.5°	252.9	241.0	232.4	227.8	231.1	238.4	252.3	266.8	282.1	297.3	311.9
65°	229.8	217.8	207.9	203.3	206.6	215.2	229.1	245.0	261.5	276.8	294.0
67.5°	207.2	194.7	182.7	178.1	182.1	191.3	206.6	224.5	242.3	258.2	276.8
70°	185.4	171.5	158.9	155.6	158.2	170.8	185.4	203.3	221.8	240.3	259.5
72.5°	165.5	148.3	135.1	131.1	134.4	148.3	164.9	183.4	203.3	223.1	243.7
75°	142.4	126.5	111.9	107.3	111.2	123.8	144.3	164.2	185.4	206.6	225.8
77.5°	123.8	105.3	90.0	82.8	89.4	105.3	125.1	146.3	168.2	190.0	211.9
80°	104.6	85.4	68.9	60.9	68.2	85.4	105.3	128.4	152.9	174.8	194.7
82.5°	87.4	66.9	49.7	41.1	49.0	68.2	90.0	113.2	137.1	158.9	182.1
85°	71.5	50.3	32.4	23.2	34.4	51.6	74.8	98.7	123.2	145.7	168.2
87.5°	58.3	37.7	19.9	9.9	21.2	40.4	62.2	86.1	110.6	133.1	154.3
90°	47.7	27.1	10.6	1.3	12.6	30.5	51.6	74.8	98.0	121.2	142.4
92.5°	39.1	20.5	6.0	0.7	7.9	24.5	44.4	66.2	88.7	111.2	131.8
95°	32.4	15.9	4.0	0.7	6.0	19.2	37.7	58.9	80.1	102.0	122.5
97.5°	27.8	13.2	3.3	0.7	4.6	16.6	32.4	52.3	72.8	93.4	113.2
100°	23.8	10.6	2.6	0.7	4.0	13.9	28.5	46.3	65.5	85.4	104.6
102.5°	20.5	8.6	2.0	0.7	3.3	11.9	25.2	41.7	58.9	78.1	96.7
105°	17.9	7.3	2.0	0.7	2.6	10.6	22.5	37.1	54.3	71.5	89.4
107.5°	15.2	6.0	1.3	0.7	2.0	8.6	19.9	33.8	49.0	65.5	82.1
110°	13.2	5.3	1.3	0.7	2.0	7.9	17.2	30.5	44.4	59.6	75.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.3	4.0	1.3	0.7	1.3	6.6	15.2	27.1	40.4	54.3	69.5
115°	9.9	3.3	0.7	0.7	1.3	6.0	13.9	24.5	36.4	49.7	63.6
117.5°	7.9	2.6	0.7	0.7	0.7	4.6	11.9	21.8	33.1	45.7	58.3
120°	6.6	2.6	0.7	0.7	0.7	4.0	10.6	19.2	29.8	41.1	53.0
122.5°	6.0	2.0	0.7	0.7	0.7	3.3	9.3	17.2	26.5	37.1	48.3
125°	5.3	2.0	0.7	0.7	0.7	2.6	7.9	15.2	23.8	33.1	43.7
127.5°	4.0	2.0	0.7	0.7	0.7	2.0	7.3	13.2	21.2	29.8	39.1
130°	3.3	1.3	0.7	0.7	0.7	2.0	6.0	11.9	18.5	26.5	35.1
132.5°	2.6	1.3	0.7	0.7	0.7	1.3	4.6	9.3	15.9	23.2	31.1
135°	2.6	1.3	0.7	0.7	0.7	1.3	3.3	7.9	13.2	19.9	26.5
137.5°	2.6	0.7	0.7	0.7	0.7	1.3	2.6	6.0	10.6	15.9	21.8
140°	2.0	0.7	0.7	0.7	0.7	0.7	2.0	4.6	8.6	13.2	18.5
142.5°	2.0	0.7	0.7	0.7	0.7	0.7	2.0	3.3	6.6	10.6	14.6
145°	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.6	5.3	7.9	11.9
147.5°	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.0	4.0	6.6	9.3
150°	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.6	4.6	7.3
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	3.3	4.6
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.6	3.3
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.6
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	629.7	625.0	626.4	625.7	627.0	629.0	629.0	628.3	628.3	627.0	625.7
5°	628.3	623.7	625.7	625.0	626.4	628.3	628.3	627.7	627.7	625.7	625.0
7.5°	624.4	621.1	622.4	622.4	623.7	625.7	625.7	625.0	625.0	623.0	622.4
10°	620.4	616.4	618.4	618.4	619.7	622.4	622.4	621.7	621.7	619.7	619.1
12.5°	613.8	609.8	613.1	613.8	615.1	617.7	617.1	617.1	617.1	615.1	614.4
15°	605.8	603.2	606.5	607.2	609.1	612.4	612.4	612.4	612.4	610.5	609.8
17.5°	597.2	595.2	598.5	599.9	602.5	605.8	605.8	606.5	607.2	605.8	605.2
20°	587.3	586.0	589.3	591.9	595.9	599.2	600.5	601.2	602.5	601.2	600.5
22.5°	576.0	576.0	580.7	583.3	587.9	591.3	593.2	595.2	596.6	595.2	594.6
25°	563.5	565.4	570.1	574.7	580.0	583.3	585.3	587.9	589.3	588.6	587.9
27.5°	551.5	554.2	560.1	564.8	569.4	574.7	576.7	580.0	581.3	581.3	580.7
30°	537.6	541.6	548.2	553.5	559.5	564.8	567.4	570.7	572.7	571.4	572.1
32.5°	524.4	531.0	536.3	542.3	548.9	554.2	557.5	561.5	563.5	562.8	563.5
35°	509.8	516.4	523.7	529.7	537.6	542.9	547.6	550.9	553.5	552.9	552.9
37.5°	493.9	502.5	509.8	517.8	525.0	531.0	535.6	539.6	542.3	542.3	542.3
40°	478.7	488.0	495.3	504.5	513.8	519.1	524.4	528.4	531.0	531.7	532.3
42.5°	462.1	472.1	480.7	490.6	499.9	506.5	512.5	517.1	519.8	521.1	520.4
45°	446.9	456.2	466.1	477.4	486.0	492.6	499.9	505.2	507.8	508.5	509.2
47.5°	429.7	440.3	451.6	462.8	471.4	480.0	486.6	491.9	494.6	496.6	496.6
50°	413.2	424.4	437.0	448.9	458.2	466.8	473.4	479.4	482.7	484.0	484.7
52.5°	397.9	408.5	421.8	433.7	442.9	451.6	460.2	466.8	470.1	471.4	471.4
55°	379.4	392.6	407.2	418.5	428.4	438.3	446.9	453.5	456.9	458.8	460.2
57.5°	362.2	376.1	391.3	403.2	415.1	424.4	432.4	441.0	443.6	446.3	446.9
60°	345.6	359.5	374.1	387.3	399.2	409.2	418.5	425.7	430.4	431.7	433.0
62.5°	328.4	343.0	358.2	371.4	384.0	395.9	404.5	411.2	416.5	418.5	419.8
65°	311.9	327.1	342.3	356.2	369.5	381.4	390.0	396.6	401.9	405.2	405.9
67.5°	294.0	310.5	326.4	341.0	354.2	366.8	375.4	382.0	387.3	391.3	392.0
70°	277.4	294.6	310.5	326.4	339.7	352.2	361.5	368.1	374.1	376.7	378.1
72.5°	261.5	279.4	296.0	311.9	325.1	337.7	347.6	354.2	360.2	363.5	364.2
75°	246.3	264.2	282.1	297.3	311.2	323.8	333.7	341.0	346.3	349.6	350.9
77.5°	231.1	249.6	267.5	282.7	297.3	309.9	318.5	327.1	332.4	336.3	336.3
80°	215.8	235.0	253.6	268.8	283.4	294.6	304.6	313.2	318.5	322.4	322.4
82.5°	202.6	221.1	239.0	254.2	268.8	281.4	291.3	299.3	305.2	307.9	308.5
85°	187.4	207.9	224.5	241.0	254.9	266.8	276.8	285.4	290.7	293.3	294.6
87.5°	174.8	194.7	212.5	227.1	241.0	252.9	264.2	271.5	276.8	280.1	281.4
90°	162.9	182.1	200.0	214.5	229.1	240.3	250.9	258.2	264.2	266.8	268.2
92.5°	152.3	171.5	188.7	203.3	217.2	229.8	239.7	247.0	252.3	254.9	256.9
95°	142.4	160.9	177.4	193.3	206.6	217.8	228.4	235.7	241.7	243.7	245.6
97.5°	132.4	150.3	166.9	182.1	196.0	206.6	216.5	223.8	228.4	231.7	233.7
100°	123.8	141.0	156.9	171.5	184.7	194.7	205.3	211.9	216.5	219.2	221.8
102.5°	114.5	131.8	147.0	160.9	174.8	184.1	194.0	200.6	204.6	209.2	209.2
105°	106.6	122.5	137.7	151.0	162.9	174.1	182.7	189.4	194.0	197.3	197.3
107.5°	98.0	113.9	128.4	142.4	153.6	164.2	172.1	178.1	183.4	185.4	187.4
110°	91.4	105.3	119.8	133.1	143.7	153.6	161.6	168.2	172.8	174.8	176.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	83.4	98.0	111.2	123.8	134.4	143.7	151.6	156.9	161.6	164.2	164.9
115°	76.8	90.7	102.6	114.5	125.8	133.7	141.0	146.3	151.0	152.9	154.3
117.5°	70.8	83.4	95.3	105.3	115.9	124.5	131.8	136.4	140.4	143.0	144.3
120°	64.9	76.8	87.4	97.3	107.3	115.2	121.8	126.5	131.1	133.1	133.1
122.5°	58.9	70.2	80.1	89.4	98.7	105.9	113.2	117.2	121.2	123.2	123.2
125°	53.6	64.2	73.5	82.1	90.7	97.3	103.3	107.9	111.9	113.2	113.2
127.5°	48.3	58.3	66.9	74.8	82.1	88.7	94.7	99.3	102.6	104.0	104.0
130°	43.7	52.3	60.3	68.2	75.5	80.8	86.7	90.7	92.7	94.7	95.3
132.5°	39.1	47.0	54.3	60.9	68.2	73.5	78.1	82.1	84.1	86.1	86.7
135°	34.4	41.7	48.3	55.0	60.9	66.2	70.2	73.5	76.1	77.5	78.1
137.5°	29.1	37.1	43.0	48.3	55.0	58.9	63.6	65.5	68.2	69.5	69.5
140°	24.5	30.5	37.1	42.4	47.7	51.6	55.6	58.9	60.9	61.6	61.6
142.5°	19.9	25.2	30.5	37.1	41.7	45.0	49.0	51.6	53.0	53.6	54.3
145°	15.9	19.9	24.5	30.5	35.8	39.7	41.7	44.4	45.7	46.3	47.0
147.5°	11.9	15.9	19.9	23.8	29.1	33.1	35.1	37.7	39.1	39.7	39.7
150°	9.3	11.9	14.6	18.5	22.5	27.1	29.8	31.8	32.4	33.1	33.1
152.5°	6.6	9.3	11.3	13.9	16.6	20.5	24.5	25.8	26.5	27.1	27.1
155°	4.6	6.6	7.9	9.9	11.9	15.2	18.5	20.5	21.2	21.8	21.8
157.5°	3.3	4.6	5.3	7.3	8.6	9.9	12.6	15.9	16.6	16.6	16.6
160°	2.0	2.6	3.3	4.6	5.3	6.6	7.9	9.9	11.9	11.9	11.9
162.5°	1.3	2.0	2.0	2.6	2.6	4.0	4.6	5.3	7.3	7.9	7.9
165°	0.7	1.3	1.3	1.3	1.3	1.3	2.0	2.0	3.3	4.0	4.0
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-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	626.4	627.7	627.0	627.0	627.0	628.3	627.0	621.1	622.4	623.7	625.0
5°	625.7	626.4	626.4	625.7	625.7	627.0	625.7	619.7	621.1	622.4	623.0
7.5°	623.0	623.7	623.7	623.7	623.0	624.4	622.4	617.1	617.1	618.4	619.1
10°	619.7	621.1	620.4	619.7	619.7	619.7	618.4	612.4	612.4	613.1	613.8
12.5°	615.8	615.8	615.8	615.1	614.4	614.4	613.1	607.2	606.5	607.8	607.2
15°	610.5	611.8	610.5	609.8	608.5	608.5	606.5	600.5	599.2	599.9	599.2
17.5°	605.8	606.5	605.2	603.8	602.5	601.9	599.9	593.2	591.3	591.9	590.6
20°	601.2	601.2	599.9	598.5	596.6	594.6	591.9	585.3	582.0	582.0	579.3
22.5°	595.2	595.2	593.9	591.9	589.9	587.3	584.6	578.0	572.7	571.4	569.4
25°	588.6	587.9	587.3	585.3	581.3	578.7	576.0	568.7	562.8	560.1	556.8
27.5°	580.7	580.7	578.7	576.7	572.7	569.4	566.1	559.5	551.5	548.2	543.6
30°	572.1	572.1	570.1	567.4	563.5	559.5	555.5	547.6	539.6	535.0	529.7
32.5°	563.5	562.8	560.8	558.2	554.2	548.2	544.9	537.0	527.7	522.4	515.1
35°	552.9	552.2	550.2	546.9	541.6	537.0	531.7	524.4	513.8	507.2	499.2
37.5°	542.3	541.6	540.3	535.6	530.3	525.0	518.4	511.1	501.2	492.6	484.7
40°	531.7	531.0	528.4	525.0	518.4	511.8	505.2	497.9	487.3	477.4	468.8
42.5°	520.4	519.8	516.4	512.5	505.2	498.6	490.6	482.7	472.1	460.2	451.6
45°	509.2	507.8	504.5	499.9	491.9	484.7	476.7	467.4	456.9	445.6	434.3
47.5°	497.2	495.3	491.9	485.3	478.7	470.8	461.5	451.6	441.0	428.4	416.5
50°	484.0	482.7	478.7	472.7	464.8	456.9	446.3	436.3	423.7	411.8	397.3
52.5°	471.4	468.8	465.5	458.8	450.9	442.3	431.0	419.1	406.5	395.3	380.0
55°	458.2	456.9	452.2	446.9	437.0	427.1	416.5	403.9	390.0	376.7	362.2
57.5°	445.6	442.9	439.0	431.7	423.1	413.2	401.9	388.7	373.4	359.5	343.6
60°	433.0	429.0	424.4	417.8	408.5	397.9	386.0	372.1	356.9	341.6	325.1
62.5°	419.1	415.8	410.5	403.9	394.6	383.4	370.8	356.2	341.6	325.8	307.9
65°	405.2	401.9	396.6	390.0	380.7	368.1	354.9	340.3	323.8	308.5	289.3
67.5°	391.3	388.0	382.0	374.8	365.5	353.6	339.7	324.4	307.9	291.3	271.5
70°	377.4	373.4	368.1	360.2	350.9	338.3	324.4	308.5	292.0	274.1	254.2
72.5°	363.5	360.2	353.6	346.3	336.3	323.8	309.9	294.0	276.8	258.2	238.4
75°	349.6	345.6	341.0	332.4	321.8	309.9	295.3	279.4	260.9	243.0	222.5
77.5°	335.7	332.4	326.4	317.8	307.9	295.3	280.7	264.8	246.3	227.8	205.9
80°	321.8	317.8	313.2	305.2	294.0	281.4	266.2	250.3	231.7	212.5	190.7
82.5°	307.9	303.9	298.6	290.7	280.1	267.5	252.9	235.7	217.2	197.3	176.8
85°	294.0	290.7	284.7	276.8	265.5	252.9	238.4	223.1	203.3	183.4	162.9
87.5°	280.1	276.8	270.8	262.9	252.3	239.7	225.1	209.2	190.0	171.5	149.0
90°	266.8	264.2	258.2	250.3	239.7	227.1	213.9	196.6	178.1	159.6	138.4
92.5°	254.9	252.3	247.0	239.0	229.8	215.8	202.6	186.1	167.5	148.3	127.8
95°	244.3	241.0	235.7	228.4	217.2	205.3	192.0	175.5	157.6	138.4	118.5
97.5°	232.4	229.1	223.8	215.8	206.6	194.0	180.8	164.9	147.0	129.1	109.2
100°	220.5	217.2	211.2	204.6	195.3	182.7	170.2	154.3	137.7	120.5	101.3
102.5°	208.6	205.3	200.0	193.3	184.1	172.8	160.2	145.0	128.4	111.2	93.4
105°	197.3	194.0	188.7	182.1	173.5	162.2	149.0	135.7	119.8	103.3	86.1
107.5°	186.1	182.7	178.1	171.5	162.9	152.3	139.7	125.8	111.2	95.3	78.8
110°	174.8	172.1	166.9	160.9	152.3	141.7	130.4	117.2	102.6	88.1	72.2



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	164.2	161.6	156.3	149.6	142.4	132.4	121.2	108.6	94.7	80.8	65.5
115°	153.6	150.3	145.7	139.7	132.4	123.2	112.6	101.3	87.4	74.2	60.3
117.5°	143.0	140.4	135.7	129.8	123.2	113.9	104.0	93.4	80.1	67.5	55.0
120°	132.4	130.4	125.8	120.5	113.9	105.3	96.0	85.4	73.5	61.6	49.7
122.5°	122.5	120.5	115.9	111.2	104.6	96.7	88.1	78.1	67.5	56.3	45.7
125°	113.2	110.6	106.6	102.0	96.0	88.7	80.1	70.8	60.9	51.0	41.1
127.5°	103.3	101.3	98.7	93.4	87.4	80.8	72.8	64.9	55.6	46.3	37.1
130°	95.3	92.7	89.4	85.4	80.1	73.5	66.2	58.3	50.3	41.7	32.4
132.5°	86.1	83.4	80.8	76.8	72.2	66.2	59.6	52.3	45.0	37.1	29.1
135°	77.5	75.5	72.8	68.9	64.2	59.6	53.0	46.3	39.7	32.4	25.8
137.5°	69.5	67.5	64.9	62.2	57.6	53.0	47.0	41.1	35.1	28.5	22.5
140°	61.6	60.3	57.6	55.0	51.0	46.3	41.1	35.8	30.5	24.5	19.2
142.5°	53.6	52.3	50.3	47.7	44.4	40.4	35.8	31.1	25.8	21.2	16.6
145°	46.3	45.7	43.7	41.1	38.4	34.4	30.5	26.5	21.8	17.9	13.2
147.5°	39.1	38.4	37.1	35.1	32.4	29.1	25.8	21.8	18.5	14.6	10.6
150°	32.4	31.8	31.1	28.5	27.1	23.8	21.2	17.9	15.2	11.3	8.6
152.5°	26.5	26.5	25.2	23.2	21.8	19.2	17.2	14.6	11.9	9.3	6.6
155°	21.2	20.5	19.9	18.5	17.2	15.2	13.2	11.3	9.3	6.6	4.6
157.5°	16.6	15.9	15.2	13.9	12.6	11.9	9.9	7.9	6.0	4.6	3.3
160°	11.9	11.3	10.6	9.9	9.3	7.9	6.6	5.3	4.0	2.6	2.0
162.5°	7.9	7.3	7.3	6.6	6.0	4.6	4.0	3.3	2.6	2.0	1.3
165°	4.0	4.0	3.3	3.3	2.6	2.0	2.0	2.0	1.3	1.3	0.7
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-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	627.7	627.7	627.7	627.7	627.7	627.7	627.7
2.5°	624.4	624.4	627.0	626.4	624.4	628.3	633.0
5°	622.4	622.4	624.4	624.4	622.4	626.4	630.3
7.5°	619.1	618.4	620.4	620.4	617.7	621.1	625.7
10°	613.1	612.4	614.4	614.4	611.8	615.1	619.1
12.5°	606.5	605.2	607.2	606.5	603.8	607.2	611.1
15°	597.9	597.2	598.5	597.2	594.6	597.9	601.9
17.5°	589.3	587.3	587.9	587.9	583.3	586.6	589.9
20°	578.0	575.4	576.0	575.4	572.1	574.0	578.0
22.5°	566.8	562.8	562.8	562.1	558.2	560.8	564.1
25°	552.9	548.2	548.2	547.6	542.9	544.9	548.2
27.5°	539.0	534.3	532.3	531.7	527.0	527.0	531.7
30°	524.4	517.8	516.4	514.5	509.8	509.8	513.8
32.5°	510.5	501.2	498.6	495.9	491.3	490.6	495.3
35°	491.9	484.7	480.0	477.4	472.1	470.8	474.7
37.5°	476.7	467.4	460.8	457.5	452.2	450.2	455.5
40°	460.2	450.2	441.6	439.6	431.7	429.0	433.7
42.5°	441.6	431.0	422.4	418.5	412.5	409.8	410.5
45°	423.1	411.8	402.6	397.3	391.3	386.7	389.3
47.5°	403.9	394.0	382.7	374.8	367.5	364.2	365.5
50°	384.7	372.8	362.2	353.6	345.0	341.0	343.6
52.5°	365.5	352.9	341.0	331.7	321.8	317.8	318.5
55°	346.9	333.7	319.8	309.9	300.6	294.6	293.3
57.5°	328.4	313.8	299.3	288.0	276.1	270.8	268.8
60°	308.5	293.3	278.1	264.8	252.3	246.3	243.7
62.5°	290.0	273.4	256.2	242.3	229.8	221.8	219.8
65°	272.1	252.9	235.7	219.8	205.9	197.3	194.7
67.5°	252.9	233.1	214.5	197.3	184.1	172.8	171.5
70°	235.0	213.9	193.3	175.5	160.9	149.6	144.3
72.5°	217.2	195.3	174.1	154.9	136.4	125.8	121.8
75°	200.0	177.4	154.9	135.1	114.5	102.0	98.0
77.5°	184.1	160.9	137.1	115.2	96.0	80.1	74.8
80°	168.8	145.0	119.8	97.3	76.8	59.6	53.6
82.5°	152.9	130.4	104.6	80.8	59.6	41.7	34.4
85°	139.0	116.5	90.7	66.9	45.7	26.5	18.5
87.5°	127.8	103.3	80.1	56.3	34.4	15.2	5.3
90°	116.5	92.7	69.5	46.3	25.8	8.6	0.7
92.5°	106.6	84.1	60.9	39.7	19.9	6.0	0.7
95°	97.3	75.5	53.6	33.1	15.9	4.0	0.7
97.5°	88.7	68.2	47.7	28.5	13.2	3.3	0.7
100°	81.4	61.6	42.4	25.2	11.3	2.6	0.7
102.5°	74.2	55.6	37.7	21.8	9.9	2.0	0.7
105°	68.2	50.3	33.8	19.9	8.6	2.0	0.7
107.5°	62.2	45.7	30.5	17.2	7.3	1.3	0.7
110°	56.3	41.7	27.1	15.2	6.6	1.3	0.7



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	51.6	37.7	24.5	13.9	5.3	1.3	0.7
115°	47.0	33.8	21.8	11.9	4.6	0.7	0.7
117.5°	42.4	30.5	19.2	10.6	4.0	0.7	0.7
120°	38.4	27.1	17.2	9.3	3.3	0.7	0.7
122.5°	34.4	24.5	15.2	7.9	2.6	0.7	0.7
125°	31.1	21.8	13.2	6.6	2.0	0.7	0.7
127.5°	27.8	19.2	11.9	6.0	2.0	0.7	0.7
130°	24.5	17.2	9.9	4.6	1.3	0.7	0.7
132.5°	21.8	14.6	8.6	4.0	1.3	0.7	0.7
135°	19.2	12.6	7.3	2.6	1.3	0.7	0.7
137.5°	16.6	10.6	6.0	2.0	0.7	0.7	0.7
140°	13.9	9.3	4.6	2.0	0.7	0.7	0.7
142.5°	11.9	7.3	3.3	1.3	0.7	0.7	0.7
145°	9.3	6.0	2.6	1.3	0.7	0.7	0.7
147.5°	7.3	4.6	2.0	1.3	0.7	0.7	0.7
150°	5.3	3.3	2.0	0.7	0.7	0.7	0.7
152.5°	4.0	2.6	1.3	0.7	0.7	0.7	0.7
155°	2.6	2.0	1.3	0.7	0.7	0.7	0.7
157.5°	2.0	1.3	0.7	0.7	0.7	0.7	0.7
160°	1.3	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)