

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-LD5-20SL-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-LD5-20SL-LW-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

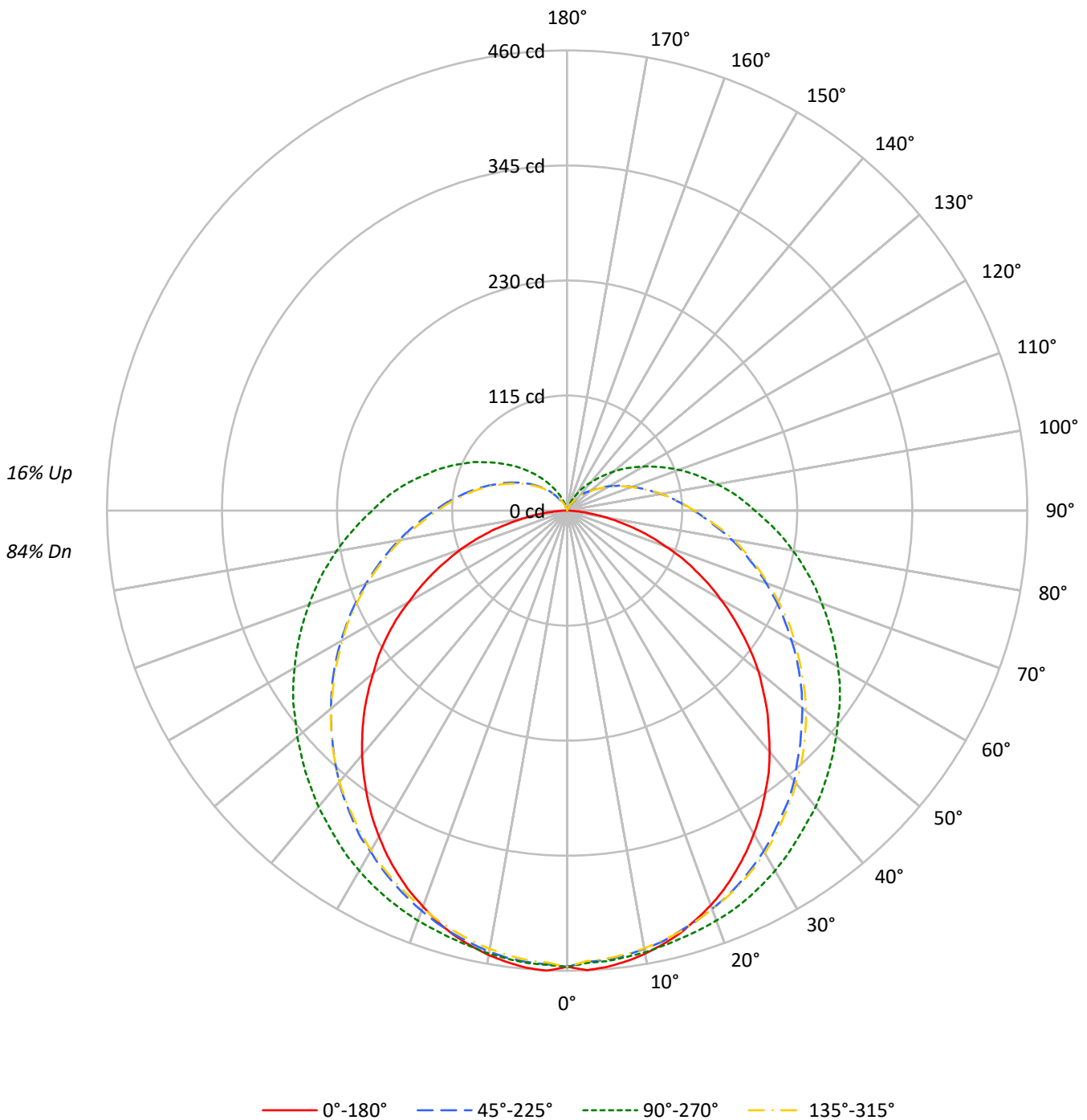
Lumens per Lamp: N/A
Luminaire Lumens: 1981.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	7370	7370	7370	7370
5°	7388	7102	7405	7131
10°	7300	6900	7324	6922
15°	7195	6727	7226	6735
20°	7061	6601	7085	6601
25°	6902	6489	6943	6482
30°	6722	6375	6774	6375
35°	6520	6267	6591	6274
40°	6315	6204	6393	6204
45°	6084	6139	6176	6147
50°	5841	6099	5920	6117
55°	5513	6105	5686	6132
60°	5163	6123	5332	6162
65°	4768	6187	4981	6246
70°	4231	6300	4557	6388
75°	3605	6505	3944	6630
80°	2680	6809	3044	6967
85°	1460	7301	1817	7501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	2.2
10°-20°	124.1	6.3
20°-30°	190.3	9.6
30°-40°	234.8	11.9
40°-50°	254.7	12.9
50°-60°	251.1	12.7
60°-70°	227.0	11.5
70°-80°	189.1	9.5
80°-90°	146.5	7.4
90°-100°	111.1	5.6
100°-110°	82.2	4.2
110°-120°	57.2	2.9
120°-130°	36.5	1.8
130°-140°	20.5	1.0
140°-150°	9.4	0.5
150°-160°	2.9	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	357.7	18.1
0°-40°	592.5	29.9
0°-60°	1098.3	55.4
0°-90°	1660.9	83.8
90°-120°	250.5	12.6
90°-150°	316.8	16.0
90°-180°	320.0	16.2
0°-180°	1981.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	456	456	456	456	456	
5°	458	452	459	454	458	43
15°	437	442	439	443	437	123
25°	398	428	401	427	398	183
35°	345	401	349	402	345	216
45°	283	369	287	370	283	218
55°	213	333	220	334	213	191
65°	141	292	148	295	141	140
75°	71	250	78	255	71	75
85°	14	208	17	214	14	16
90°	0	188	1	195	0	1
95°	0	170	0	178	0	0
105°	0	135	0	143	0	1
115°	0	103	0	112	0	0
125°	0	74	0	82	0	0
135°	0	48	0	57	0	0
145°	0	28	0	34	0	0
155°	0	12	0	16	0	0
165°	0	2	0	3	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	459.8	459.8	459.3	458.4	458.9	460.3	459.3	456.9	455.5	451.6	452.6
5°	457.9	457.9	457.4	456.4	456.9	458.9	457.9	456.0	454.0	450.7	452.1
7.5°	454.5	454.5	454.0	453.1	454.0	456.0	455.0	453.1	451.6	448.3	449.7
10°	449.7	450.2	449.7	448.3	450.2	452.1	451.6	449.2	447.8	444.9	446.3
12.5°	443.9	444.4	443.9	443.5	444.4	447.3	446.3	444.4	443.5	441.1	442.5
15°	437.2	437.7	436.7	436.7	437.7	440.6	440.6	438.7	437.7	435.3	438.2
17.5°	428.6	429.0	428.6	428.6	429.5	432.4	432.9	431.9	431.0	430.0	432.9
20°	419.9	419.4	419.4	418.9	420.9	425.2	424.7	424.7	423.7	423.7	427.1
22.5°	409.8	409.8	409.3	409.3	411.7	415.6	415.6	416.5	415.6	417.5	420.4
25°	398.3	398.7	398.3	399.2	401.1	405.5	405.9	407.4	407.9	409.8	413.2
27.5°	386.2	386.7	386.2	387.2	390.6	393.9	396.3	398.3	398.7	401.6	405.9
30°	373.2	373.2	373.7	374.7	378.5	383.8	385.7	388.2	388.2	393.0	397.3
32.5°	359.8	359.8	359.8	361.7	366.0	372.3	374.7	377.6	378.5	383.3	388.2
35°	344.9	345.3	345.3	346.8	352.6	358.8	362.2	365.5	367.5	373.2	378.0
37.5°	330.9	331.9	330.4	332.4	340.5	345.8	349.7	353.0	356.4	364.1	367.9
40°	315.0	316.0	315.5	319.4	326.1	332.8	337.2	340.5	345.3	353.0	357.4
42.5°	298.2	299.2	300.1	304.5	311.7	318.4	323.7	328.0	333.8	340.5	347.7
45°	282.8	282.8	284.3	289.5	297.2	304.5	310.7	315.5	322.3	329.5	336.7
47.5°	265.5	266.0	267.9	274.2	282.3	291.0	296.8	303.0	310.2	317.9	326.1
50°	249.6	249.6	252.5	259.2	266.9	276.6	282.8	290.0	297.7	306.9	315.0
52.5°	231.4	232.3	236.6	242.9	253.0	261.7	268.9	276.6	285.7	295.3	304.5
55°	213.1	215.0	218.4	227.0	237.6	245.8	254.4	264.1	272.7	283.3	293.9
57.5°	195.3	196.7	202.0	210.7	221.7	231.8	241.0	250.1	260.7	271.3	282.3
60°	177.0	178.9	185.2	193.8	205.9	216.4	227.0	236.6	247.7	258.8	270.3
62.5°	159.7	161.1	168.3	178.4	190.5	202.0	212.6	224.1	236.2	246.7	258.3
65°	141.4	143.8	152.0	161.1	175.1	186.6	198.6	211.1	223.7	235.2	246.3
67.5°	124.6	126.0	134.7	145.3	159.2	172.2	184.7	198.2	211.1	223.2	234.2
70°	104.9	109.7	118.3	129.4	144.3	157.8	171.2	185.2	199.1	211.6	222.2
72.5°	88.5	92.3	102.0	114.0	128.4	144.3	158.2	173.2	187.1	200.1	211.1
75°	71.2	75.0	86.1	99.6	114.5	131.3	145.7	161.1	175.6	188.5	200.1
77.5°	54.4	59.2	71.2	85.1	101.5	118.8	133.7	149.1	164.0	178.0	189.5
80°	39.0	44.3	57.2	73.1	89.0	106.3	122.6	138.0	153.0	166.9	178.9
82.5°	25.0	30.8	44.7	60.6	77.4	94.8	111.6	127.0	141.9	155.8	168.3
85°	13.5	19.7	34.1	50.0	66.9	84.2	101.0	117.4	131.8	144.8	158.2
87.5°	3.8	11.5	25.5	41.4	58.7	74.6	90.9	107.3	121.7	135.6	147.7
90°	0.5	6.7	19.2	34.1	51.0	66.4	82.7	98.1	112.5	126.5	138.5
92.5°	0.5	4.3	14.9	28.4	43.8	59.6	76.0	90.9	104.4	118.3	130.3
95°	0.5	3.4	12.0	24.0	38.5	53.4	68.8	83.2	97.2	110.1	122.2
97.5°	0.5	2.4	9.6	20.7	33.7	47.6	62.5	77.0	90.4	102.9	114.0
100°	0.5	1.9	7.7	17.8	29.3	42.8	56.3	70.2	83.2	95.2	106.8
102.5°	0.5	1.4	6.7	14.9	26.0	38.0	51.0	64.0	76.5	88.0	99.6
105°	0.5	1.4	5.8	13.0	23.1	34.1	46.2	58.7	70.2	81.3	91.9
107.5°	0.5	1.0	4.8	11.1	20.2	30.8	41.8	53.9	64.5	75.0	85.1
110°	0.5	1.0	3.8	10.1	17.8	27.4	38.0	49.1	59.2	69.3	78.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	1.0	3.4	8.7	15.4	24.5	34.1	44.3	53.9	64.0	72.6
115°	0.5	1.0	2.9	7.7	14.4	21.2	30.8	39.9	49.5	58.7	66.9
117.5°	0.5	1.0	2.4	6.3	12.5	19.2	26.9	36.1	44.7	53.4	61.1
120°	0.5	1.0	1.9	5.8	11.1	17.3	24.0	32.2	40.4	48.6	56.8
122.5°	0.5	0.5	1.9	4.8	9.6	15.4	22.1	28.4	36.1	43.8	51.0
125°	0.5	0.5	1.9	4.3	8.2	13.9	19.7	25.5	32.2	39.0	45.2
127.5°	0.5	0.5	1.4	3.4	7.2	12.0	17.3	23.6	28.4	34.6	40.9
130°	0.5	0.5	1.4	2.9	6.3	10.1	15.4	20.7	26.5	30.8	36.1
132.5°	0.5	0.5	1.4	2.4	4.8	8.2	13.0	17.8	23.1	27.9	32.2
135°	0.5	0.5	1.0	1.9	3.8	6.7	10.6	14.9	20.2	25.0	29.3
137.5°	0.5	0.5	1.0	1.9	2.9	5.8	8.2	12.0	16.8	21.2	25.5
140°	0.5	0.5	1.0	1.4	2.4	4.3	6.7	9.6	13.5	17.3	22.1
142.5°	0.5	0.5	0.5	1.4	1.9	3.4	5.3	7.7	10.6	13.9	17.8
145°	0.5	0.5	0.5	1.4	1.9	2.4	4.3	6.3	8.2	10.6	13.9
147.5°	0.5	0.5	0.5	1.0	1.4	1.9	3.4	4.8	6.3	8.2	10.1
150°	0.5	0.5	0.5	1.0	1.4	1.9	2.4	3.4	4.8	6.7	8.2
152.5°	0.5	0.5	0.5	1.0	1.0	1.4	1.9	2.4	3.4	4.8	5.8
155°	0.5	0.5	0.5	0.5	1.0	1.4	1.9	1.9	2.4	3.4	4.3
157.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.4	1.4	1.9	1.9	2.9
160°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.4	1.4	1.4	1.4
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.4	1.4
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
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°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	452.6	453.1	454.5	454.5	453.6	453.6	453.1	452.6	453.1	454.0	454.0
5°	451.6	452.1	453.6	454.0	453.1	452.6	452.6	452.1	452.6	453.6	453.6
7.5°	449.7	450.2	451.6	452.1	451.2	451.2	450.7	450.2	451.2	451.6	451.6
10°	446.8	447.3	449.2	449.7	449.2	448.8	448.8	448.3	448.8	449.7	449.7
12.5°	443.0	443.9	446.3	446.3	446.3	445.9	445.9	445.4	445.9	446.8	446.3
15°	438.7	440.6	442.5	443.5	443.5	443.5	443.0	442.5	443.5	443.9	443.5
17.5°	433.8	436.2	439.1	440.1	440.1	440.6	440.1	439.6	440.6	440.6	440.1
20°	429.0	431.4	434.3	435.3	436.2	436.7	436.7	436.2	436.7	437.2	436.7
22.5°	422.8	425.7	429.0	430.5	431.4	432.4	432.4	432.4	432.9	433.4	432.4
25°	416.0	419.4	423.3	424.7	426.6	427.1	427.6	427.6	428.1	428.6	427.1
27.5°	408.8	412.7	416.5	418.9	420.4	421.3	421.3	421.8	422.3	422.8	421.3
30°	400.2	405.9	409.3	411.2	413.2	414.6	415.1	415.6	416.0	416.5	415.1
32.5°	392.5	397.3	401.6	404.0	406.4	408.4	408.8	408.8	409.8	409.8	408.4
35°	383.3	389.1	393.4	395.8	398.7	400.2	401.1	401.1	402.1	402.1	400.7
37.5°	374.2	380.0	384.8	387.7	391.0	393.0	393.4	393.4	394.4	394.4	392.5
40°	364.6	370.8	376.1	379.5	382.4	384.8	385.3	386.7	386.7	386.2	384.3
42.5°	355.0	360.7	366.5	370.4	374.2	376.6	377.6	378.0	378.0	377.6	376.1
45°	344.4	351.1	356.4	361.2	365.1	367.5	368.9	369.4	369.4	368.4	367.0
47.5°	334.3	341.0	346.3	351.6	355.4	358.3	359.8	360.3	359.8	359.3	357.8
50°	323.7	331.4	336.7	342.0	345.8	348.2	350.6	351.1	350.6	350.2	347.3
52.5°	312.6	320.8	326.6	331.9	336.2	339.1	341.0	341.5	341.5	340.5	338.6
55°	301.6	308.8	316.0	321.8	326.6	329.5	331.9	332.8	331.9	330.9	328.5
57.5°	291.5	298.2	305.4	311.7	316.5	320.3	322.3	323.2	322.3	320.8	318.4
60°	279.4	286.7	294.8	300.6	305.9	309.8	310.7	312.6	311.7	310.2	307.8
62.5°	267.9	276.6	283.8	291.0	295.3	299.6	301.6	302.5	301.6	300.1	297.7
65°	255.9	265.5	272.7	279.9	284.7	289.1	291.5	292.0	291.0	289.5	287.1
67.5°	244.8	254.0	261.7	269.3	273.7	278.0	280.4	281.4	280.4	278.5	276.1
70°	233.8	242.9	252.0	257.8	263.1	267.9	269.3	270.8	269.8	267.9	265.0
72.5°	222.7	232.3	241.5	247.2	253.0	257.3	259.2	260.7	259.7	257.8	254.4
75°	211.1	221.3	230.4	236.6	242.4	246.7	248.7	250.1	249.1	247.2	243.4
77.5°	200.6	210.7	219.3	226.1	231.8	235.7	239.0	239.5	238.6	236.6	232.8
80°	189.5	199.6	208.7	215.5	221.3	225.1	227.5	228.9	228.0	226.1	222.2
82.5°	179.9	189.0	198.2	204.9	210.7	215.5	217.4	218.8	218.4	215.5	212.6
85°	169.3	179.9	187.1	194.3	200.1	204.9	206.3	208.3	207.8	205.4	201.5
87.5°	158.7	169.3	178.0	185.2	190.5	194.3	196.7	197.7	197.2	194.8	190.5
90°	150.1	159.7	168.3	176.0	180.4	184.7	187.1	187.6	187.6	184.7	181.3
92.5°	141.9	151.0	159.7	166.9	172.2	176.0	178.0	178.9	178.4	176.0	172.2
95°	132.8	142.9	151.0	158.2	163.5	167.4	169.3	170.3	169.8	167.4	163.5
97.5°	125.1	134.2	142.4	149.1	154.4	158.2	160.2	161.1	161.1	158.7	154.9
100°	117.4	126.5	134.2	140.9	145.7	149.6	151.5	152.0	151.5	149.6	145.7
102.5°	109.7	118.3	126.0	132.3	137.6	140.9	142.9	143.3	143.3	140.9	137.1
105°	102.0	110.6	117.8	124.6	128.9	132.3	133.7	135.2	134.7	132.8	128.9
107.5°	94.8	103.4	110.1	116.4	120.7	124.1	125.5	127.0	126.5	124.6	120.7
110°	88.0	96.2	102.4	108.7	112.5	115.9	118.3	118.8	117.8	115.9	112.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	81.8	89.0	95.2	101.0	105.3	107.7	109.7	110.6	109.7	107.7	105.3
115°	75.0	82.2	88.5	93.8	97.6	100.5	102.0	102.9	102.0	100.0	97.6
117.5°	68.8	75.5	81.8	87.1	90.4	92.8	94.3	95.2	94.3	92.8	90.4
120°	63.5	69.3	75.0	79.8	83.7	85.6	87.1	88.0	87.5	85.6	83.2
122.5°	57.2	63.5	68.8	73.6	77.0	78.9	79.8	80.8	80.3	78.9	76.5
125°	51.9	57.2	62.5	66.9	70.2	72.1	73.1	74.1	73.6	72.1	69.3
127.5°	46.2	51.9	56.3	60.6	63.0	65.9	66.4	67.3	66.9	65.4	63.0
130°	41.8	46.2	50.5	54.4	57.2	59.2	60.1	60.6	59.6	58.7	56.3
132.5°	36.6	41.4	45.2	48.6	50.5	52.4	53.4	53.9	53.9	52.4	50.5
135°	32.7	36.1	39.4	42.8	44.7	46.7	47.6	48.1	47.6	46.7	44.7
137.5°	29.3	32.2	34.6	37.5	39.9	40.9	41.8	41.8	41.4	40.9	39.4
140°	25.5	28.9	31.3	33.2	35.1	35.6	36.6	36.6	36.1	35.6	34.6
142.5°	21.6	24.5	26.9	29.3	30.8	31.7	32.2	32.7	32.2	31.7	30.3
145°	17.3	20.7	23.1	24.5	26.5	26.9	27.4	27.9	27.4	26.9	25.5
147.5°	13.5	16.4	18.8	20.7	22.1	22.6	23.1	23.6	23.1	22.1	21.6
150°	9.6	12.0	14.9	16.8	17.8	18.8	18.8	18.8	19.2	18.3	17.3
152.5°	7.7	8.7	10.6	12.5	13.9	14.4	14.9	14.9	14.4	14.4	13.5
155°	5.3	6.3	7.7	9.1	10.6	11.1	11.5	11.5	11.1	11.1	10.6
157.5°	3.4	4.3	5.3	6.3	7.7	8.2	8.7	8.7	8.7	8.2	7.7
160°	1.9	2.4	2.9	3.8	4.8	5.3	5.8	5.8	5.8	5.8	5.3
162.5°	1.4	1.4	1.4	1.9	2.4	2.9	3.4	3.4	3.4	3.4	2.9
165°	1.0	1.0	1.0	1.0	1.0	1.4	1.9	1.9	1.9	1.9	1.9
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-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	453.6	453.6	454.0	453.1	450.2	450.7	450.7	452.6	453.6	454.0	456.4
5°	452.6	452.6	453.6	452.1	449.7	449.7	449.7	451.6	452.1	453.1	455.0
7.5°	451.2	451.2	451.6	450.2	447.3	447.3	446.8	448.8	449.7	450.2	452.1
10°	448.8	448.8	449.2	447.8	444.4	444.4	443.9	445.4	445.9	446.8	448.3
12.5°	445.4	445.4	445.4	443.9	440.6	440.1	439.6	441.1	441.1	441.5	443.0
15°	442.5	441.5	441.5	440.1	436.7	435.8	434.8	435.3	436.2	435.8	436.7
17.5°	439.1	438.2	437.2	435.8	431.4	430.0	429.0	429.5	429.0	428.6	429.5
20°	435.3	433.8	433.4	431.0	426.6	424.2	422.3	421.3	421.8	420.4	420.9
22.5°	431.0	429.0	428.1	425.2	420.9	418.0	415.6	413.6	413.2	411.2	411.7
25°	425.7	423.3	421.8	419.4	414.6	411.2	408.4	405.5	404.0	401.6	401.1
27.5°	419.4	417.0	415.1	412.7	407.9	403.5	400.2	396.3	394.4	391.5	390.1
30°	413.2	410.3	407.4	405.5	400.2	395.4	390.1	386.7	383.8	380.5	378.0
32.5°	405.5	402.6	399.7	396.8	392.0	386.2	381.9	376.6	373.2	369.4	366.5
35°	397.8	393.9	391.0	387.2	382.9	376.1	370.8	365.5	361.2	356.9	353.5
37.5°	389.1	386.2	381.9	378.5	373.2	366.5	360.7	354.0	350.2	344.4	340.1
40°	380.9	377.6	373.2	368.9	363.6	355.9	349.7	342.0	337.6	330.9	326.6
42.5°	372.8	367.9	363.6	358.8	353.0	345.8	338.1	330.4	324.7	318.4	312.2
45°	363.6	358.3	353.0	347.7	342.0	334.8	326.6	318.4	311.2	305.4	297.7
47.5°	354.0	348.7	342.5	336.7	330.4	323.2	314.6	305.9	298.2	291.5	283.3
50°	344.4	339.1	332.4	326.1	318.9	311.7	302.5	292.4	284.3	275.6	268.4
52.5°	334.3	329.0	322.7	314.6	306.9	299.6	290.0	279.4	270.3	263.1	254.0
55°	324.2	318.9	311.7	303.5	295.8	286.7	277.5	266.9	256.8	248.2	239.0
57.5°	313.6	308.8	300.6	293.9	284.3	274.6	265.0	254.9	243.9	233.8	223.2
60°	303.0	297.7	290.0	281.9	272.2	262.6	252.5	241.5	229.9	218.8	209.2
62.5°	293.4	286.7	279.4	270.8	260.7	251.6	240.0	228.0	216.4	204.9	193.4
65°	282.3	275.1	268.4	259.7	249.1	238.6	227.0	215.0	202.5	190.0	178.4
67.5°	271.3	264.1	256.8	248.2	237.1	226.1	214.0	202.0	188.1	176.0	162.6
70°	260.2	254.4	245.3	236.2	226.1	214.0	202.0	189.0	174.6	161.6	147.7
72.5°	249.1	243.4	234.2	224.6	215.0	202.5	189.5	176.5	163.1	148.1	133.2
75°	238.6	231.4	223.2	214.0	203.9	190.9	178.0	164.5	148.6	134.7	119.3
77.5°	228.5	221.7	213.6	203.5	192.4	179.9	166.4	152.5	136.6	121.7	104.9
80°	217.4	210.7	202.5	192.4	181.3	169.3	154.9	140.4	125.1	108.7	91.4
82.5°	206.8	200.6	191.4	182.3	170.3	158.2	143.8	129.4	113.0	97.2	80.3
85°	195.8	189.5	180.8	171.2	159.7	146.7	133.2	118.8	102.4	86.1	69.3
87.5°	186.1	178.9	170.3	160.6	149.1	136.6	123.6	108.2	92.3	76.5	59.2
90°	176.0	169.3	160.6	151.0	139.5	127.0	113.5	99.1	83.7	67.3	51.0
92.5°	167.4	160.2	152.0	142.4	130.8	118.8	105.3	90.9	76.0	60.1	44.3
95°	158.7	151.5	143.8	134.2	122.6	110.6	97.2	83.2	68.8	53.4	38.5
97.5°	149.1	142.9	135.2	126.0	114.5	102.9	89.9	76.5	62.5	47.6	33.7
100°	141.4	134.2	127.0	117.4	106.8	95.7	82.7	69.7	56.3	42.3	29.3
102.5°	132.8	126.0	118.8	109.7	99.1	88.0	76.0	63.5	51.0	38.0	25.5
105°	124.6	118.3	110.6	102.0	91.9	81.3	69.7	58.2	46.2	33.7	22.6
107.5°	116.4	110.1	102.9	94.8	85.1	74.6	64.0	52.4	41.4	30.3	20.2
110°	108.2	102.4	95.7	87.5	78.4	68.8	58.7	48.1	37.0	26.9	17.8



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	101.0	95.2	88.5	80.8	72.1	63.0	53.4	43.3	33.2	24.0	15.4
115°	93.8	88.5	81.8	75.0	66.4	57.7	48.6	39.0	29.8	21.6	13.5
117.5°	86.6	81.3	75.0	68.3	60.6	52.4	43.8	34.6	26.9	19.2	12.0
120°	79.4	74.6	68.8	62.5	55.8	47.6	39.0	31.3	24.0	16.8	10.6
122.5°	72.6	68.3	63.0	57.2	50.0	42.3	35.1	28.4	21.6	14.9	8.7
125°	66.4	62.0	57.2	51.5	44.7	38.0	31.7	25.5	18.8	13.0	7.2
127.5°	60.1	55.8	51.0	45.7	40.4	34.1	28.4	22.6	16.8	11.5	6.3
130°	53.9	50.0	45.7	41.4	36.1	30.3	25.5	19.7	14.4	9.1	5.3
132.5°	47.6	44.7	40.9	36.6	31.7	27.4	22.1	17.3	12.5	8.2	4.8
135°	42.3	39.4	36.1	32.2	28.4	24.0	19.2	14.9	10.6	6.7	3.8
137.5°	37.5	35.1	31.7	28.4	25.0	20.7	16.8	12.5	8.7	5.8	2.9
140°	33.2	30.8	27.9	24.5	21.6	17.8	13.9	10.1	7.7	4.8	2.4
142.5°	28.9	26.5	24.0	21.2	18.3	14.9	11.5	8.7	6.3	3.8	2.4
145°	24.5	22.6	20.2	17.8	14.9	12.0	9.6	7.2	4.8	2.9	1.9
147.5°	20.2	18.8	16.4	14.4	12.0	9.6	7.7	5.8	3.8	2.4	1.4
150°	16.4	14.9	13.0	11.1	9.6	7.7	6.3	4.3	2.9	2.4	1.4
152.5°	12.5	11.5	10.1	9.1	7.7	5.8	4.3	3.4	2.4	1.9	1.0
155°	10.1	9.1	8.2	6.7	5.8	4.3	3.4	2.4	1.9	1.4	1.0
157.5°	7.2	6.7	5.8	4.8	3.8	2.9	2.4	2.4	1.4	1.0	0.5
160°	4.8	4.3	3.8	2.9	2.4	2.4	1.9	1.4	1.0	1.0	0.5
162.5°	2.9	2.4	2.4	2.4	1.9	1.9	1.4	1.0	1.0	0.5	0.5
165°	1.9	1.9	1.9	1.4	1.4	1.4	1.0	0.5	0.5	0.5	0.5
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-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	456.4	455.0	456.9	460.3	460.8	460.3	459.3	460.8	462.7	462.2	458.9
5°	455.5	453.6	455.5	458.9	458.9	458.4	457.9	459.3	461.3	460.8	457.9
7.5°	452.6	450.7	452.6	455.5	456.0	455.0	455.0	456.4	458.4	457.9	455.5
10°	448.8	446.8	447.8	451.2	452.1	451.2	451.2	452.6	455.0	454.5	451.6
12.5°	443.0	441.5	442.5	445.4	446.3	445.9	445.4	447.3	449.7	449.7	446.8
15°	436.7	434.8	435.8	439.1	439.6	438.7	439.1	440.6	443.5	443.5	441.1
17.5°	429.5	427.1	428.6	431.0	431.4	431.4	431.4	433.4	436.7	436.2	434.3
20°	421.3	418.0	418.9	421.3	422.3	422.3	422.3	425.7	428.1	428.1	426.1
22.5°	411.7	409.3	409.3	411.7	413.2	412.7	412.7	415.6	418.9	418.5	418.5
25°	400.7	398.7	397.8	400.7	401.1	401.6	402.6	405.5	409.3	409.3	409.8
27.5°	389.1	387.2	386.7	389.1	389.6	390.1	391.0	394.4	398.3	398.7	399.7
30°	378.0	375.2	374.2	376.1	377.1	377.6	377.6	382.9	386.2	387.7	389.6
32.5°	365.1	362.2	359.8	363.1	363.6	364.6	365.1	370.4	374.2	376.6	379.5
35°	352.1	347.3	346.3	348.7	349.7	350.2	351.1	356.9	362.2	364.1	367.9
37.5°	337.6	334.3	331.4	333.8	334.8	335.2	338.1	343.4	348.7	351.6	355.4
40°	324.2	319.9	317.4	318.9	319.9	320.3	323.7	329.5	335.7	339.1	343.9
42.5°	309.3	303.5	301.6	303.0	303.5	304.9	307.8	315.5	321.8	326.6	330.4
45°	294.4	290.0	285.7	287.1	287.6	288.6	292.9	301.1	307.8	313.6	317.9
47.5°	279.0	273.7	269.3	270.3	272.2	272.7	277.5	287.1	293.4	299.6	305.4
50°	263.6	256.4	253.0	253.0	254.0	256.4	262.6	272.2	279.0	286.2	292.4
52.5°	247.7	241.0	237.1	237.6	238.6	241.5	247.2	256.8	264.5	272.2	279.9
55°	231.8	224.6	220.8	219.8	220.8	224.6	231.4	241.5	249.1	258.3	266.5
57.5°	216.0	207.3	203.9	202.5	203.5	208.3	215.0	225.6	235.2	243.9	253.5
60°	198.6	191.9	186.1	182.8	185.2	191.4	198.6	209.7	219.8	229.4	240.0
62.5°	183.7	175.1	168.8	165.5	167.9	173.2	183.3	193.8	204.9	216.0	226.5
65°	166.9	158.2	151.0	147.7	150.1	156.3	166.4	178.0	190.0	201.0	213.6
67.5°	150.5	141.4	132.8	129.4	132.3	139.0	150.1	163.1	176.0	187.6	201.0
70°	134.7	124.6	115.4	113.0	115.0	124.1	134.7	147.7	161.1	174.6	188.5
72.5°	120.2	107.7	98.1	95.2	97.6	107.7	119.8	133.2	147.7	162.1	177.0
75°	103.4	91.9	81.3	77.9	80.8	89.9	104.9	119.3	134.7	150.1	164.0
77.5°	89.9	76.5	65.4	60.1	64.9	76.5	90.9	106.3	122.2	138.0	153.9
80°	76.0	62.0	50.0	44.3	49.5	62.0	76.5	93.3	111.1	127.0	141.4
82.5°	63.5	48.6	36.1	29.8	35.6	49.5	65.4	82.2	99.6	115.4	132.3
85°	51.9	36.6	23.6	16.8	25.0	37.5	54.4	71.7	89.5	105.8	122.2
87.5°	42.3	27.4	14.4	7.2	15.4	29.3	45.2	62.5	80.3	96.7	112.1
90°	34.6	19.7	7.7	1.0	9.1	22.1	37.5	54.4	71.2	88.0	103.4
92.5°	28.4	14.9	4.3	0.5	5.8	17.8	32.2	48.1	64.5	80.8	95.7
95°	23.6	11.5	2.9	0.5	4.3	13.9	27.4	42.8	58.2	74.1	89.0
97.5°	20.2	9.6	2.4	0.5	3.4	12.0	23.6	38.0	52.9	67.8	82.2
100°	17.3	7.7	1.9	0.5	2.9	10.1	20.7	33.7	47.6	62.0	76.0
102.5°	14.9	6.3	1.4	0.5	2.4	8.7	18.3	30.3	42.8	56.8	70.2
105°	13.0	5.3	1.4	0.5	1.9	7.7	16.4	26.9	39.4	51.9	64.9
107.5°	11.1	4.3	1.0	0.5	1.4	6.3	14.4	24.5	35.6	47.6	59.6
110°	9.6	3.8	1.0	0.5	1.4	5.8	12.5	22.1	32.2	43.3	54.8



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	8.2	2.9	1.0	0.5	1.0	4.8	11.1	19.7	29.3	39.4	50.5
115°	7.2	2.4	0.5	0.5	1.0	4.3	10.1	17.8	26.5	36.1	46.2
117.5°	5.8	1.9	0.5	0.5	0.5	3.4	8.7	15.9	24.0	33.2	42.3
120°	4.8	1.9	0.5	0.5	0.5	2.9	7.7	13.9	21.6	29.8	38.5
122.5°	4.3	1.4	0.5	0.5	0.5	2.4	6.7	12.5	19.2	26.9	35.1
125°	3.8	1.4	0.5	0.5	0.5	1.9	5.8	11.1	17.3	24.0	31.7
127.5°	2.9	1.4	0.5	0.5	0.5	1.4	5.3	9.6	15.4	21.6	28.4
130°	2.4	1.0	0.5	0.5	0.5	1.4	4.3	8.7	13.5	19.2	25.5
132.5°	1.9	1.0	0.5	0.5	0.5	1.0	3.4	6.7	11.5	16.8	22.6
135°	1.9	1.0	0.5	0.5	0.5	1.0	2.4	5.8	9.6	14.4	19.2
137.5°	1.9	0.5	0.5	0.5	0.5	1.0	1.9	4.3	7.7	11.5	15.9
140°	1.4	0.5	0.5	0.5	0.5	0.5	1.4	3.4	6.3	9.6	13.5
142.5°	1.4	0.5	0.5	0.5	0.5	0.5	1.4	2.4	4.8	7.7	10.6
145°	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.9	3.8	5.8	8.7
147.5°	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.4	2.9	4.8	6.7
150°	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.4	1.9	3.4	5.3
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.4	2.4	3.4
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.4	1.9	2.4
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.4	1.9
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.4
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	457.4	454.0	455.0	454.5	455.5	456.9	456.9	456.4	456.4	455.5	454.5
5°	456.4	453.1	454.5	454.0	455.0	456.4	456.4	456.0	456.0	454.5	454.0
7.5°	453.6	451.2	452.1	452.1	453.1	454.5	454.5	454.0	454.0	452.6	452.1
10°	450.7	447.8	449.2	449.2	450.2	452.1	452.1	451.6	451.6	450.2	449.7
12.5°	445.9	443.0	445.4	445.9	446.8	448.8	448.3	448.3	448.3	446.8	446.3
15°	440.1	438.2	440.6	441.1	442.5	444.9	444.9	444.9	444.9	443.5	443.0
17.5°	433.8	432.4	434.8	435.8	437.7	440.1	440.1	440.6	441.1	440.1	439.6
20°	426.6	425.7	428.1	430.0	432.9	435.3	436.2	436.7	437.7	436.7	436.2
22.5°	418.5	418.5	421.8	423.7	427.1	429.5	431.0	432.4	433.4	432.4	431.9
25°	409.3	410.8	414.1	417.5	421.3	423.7	425.2	427.1	428.1	427.6	427.1
27.5°	400.7	402.6	406.9	410.3	413.6	417.5	418.9	421.3	422.3	422.3	421.8
30°	390.6	393.4	398.3	402.1	406.4	410.3	412.2	414.6	416.0	415.1	415.6
32.5°	380.9	385.7	389.6	393.9	398.7	402.6	405.0	407.9	409.3	408.8	409.3
35°	370.4	375.2	380.5	384.8	390.6	394.4	397.8	400.2	402.1	401.6	401.6
37.5°	358.8	365.1	370.4	376.1	381.4	385.7	389.1	392.0	393.9	393.9	393.9
40°	347.7	354.5	359.8	366.5	373.2	377.1	380.9	383.8	385.7	386.2	386.7
42.5°	335.7	342.9	349.2	356.4	363.1	367.9	372.3	375.6	377.6	378.5	378.0
45°	324.7	331.4	338.6	346.8	353.0	357.8	363.1	367.0	368.9	369.4	369.9
47.5°	312.2	319.9	328.0	336.2	342.5	348.7	353.5	357.4	359.3	360.7	360.7
50°	300.1	308.3	317.4	326.1	332.8	339.1	343.9	348.2	350.6	351.6	352.1
52.5°	289.1	296.8	306.4	315.0	321.8	328.0	334.3	339.1	341.5	342.5	342.5
55°	275.6	285.2	295.8	304.0	311.2	318.4	324.7	329.5	331.9	333.3	334.3
57.5°	263.1	273.2	284.3	292.9	301.6	308.3	314.1	320.3	322.3	324.2	324.7
60°	251.1	261.2	271.8	281.4	290.0	297.2	304.0	309.3	312.6	313.6	314.6
62.5°	238.6	249.1	260.2	269.8	279.0	287.6	293.9	298.7	302.5	304.0	304.9
65°	226.5	237.6	248.7	258.8	268.4	277.0	283.3	288.1	292.0	294.4	294.8
67.5°	213.6	225.6	237.1	247.7	257.3	266.5	272.7	277.5	281.4	284.3	284.7
70°	201.5	214.0	225.6	237.1	246.7	255.9	262.6	267.4	271.8	273.7	274.6
72.5°	190.0	203.0	215.0	226.5	236.2	245.3	252.5	257.3	261.7	264.1	264.5
75°	178.9	191.9	204.9	216.0	226.1	235.2	242.4	247.7	251.6	254.0	254.9
77.5°	167.9	181.3	194.3	205.4	216.0	225.1	231.4	237.6	241.5	244.3	244.3
80°	156.8	170.7	184.2	195.3	205.9	214.0	221.3	227.5	231.4	234.2	234.2
82.5°	147.2	160.6	173.6	184.7	195.3	204.4	211.6	217.4	221.7	223.7	224.1
85°	136.1	151.0	163.1	175.1	185.2	193.8	201.0	207.3	211.1	213.1	214.0
87.5°	127.0	141.4	154.4	165.0	175.1	183.7	191.9	197.2	201.0	203.5	204.4
90°	118.3	132.3	145.3	155.8	166.4	174.6	182.3	187.6	191.9	193.8	194.8
92.5°	110.6	124.6	137.1	147.7	157.8	166.9	174.1	179.4	183.3	185.2	186.6
95°	103.4	116.9	128.9	140.4	150.1	158.2	165.9	171.2	175.6	177.0	178.4
97.5°	96.2	109.2	121.2	132.3	142.4	150.1	157.3	162.6	165.9	168.3	169.8
100°	89.9	102.4	114.0	124.6	134.2	141.4	149.1	153.9	157.3	159.2	161.1
102.5°	83.2	95.7	106.8	116.9	127.0	133.7	140.9	145.7	148.6	152.0	152.0
105°	77.4	89.0	100.0	109.7	118.3	126.5	132.8	137.6	140.9	143.3	143.3
107.5°	71.2	82.7	93.3	103.4	111.6	119.3	125.1	129.4	133.2	134.7	136.1
110°	66.4	76.5	87.1	96.7	104.4	111.6	117.4	122.2	125.5	127.0	127.9



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	60.6	71.2	80.8	89.9	97.6	104.4	110.1	114.0	117.4	119.3	119.8
115°	55.8	65.9	74.6	83.2	91.4	97.2	102.4	106.3	109.7	111.1	112.1
117.5°	51.5	60.6	69.3	76.5	84.2	90.4	95.7	99.1	102.0	103.9	104.9
120°	47.1	55.8	63.5	70.7	77.9	83.7	88.5	91.9	95.2	96.7	96.7
122.5°	42.8	51.0	58.2	64.9	71.7	77.0	82.2	85.1	88.0	89.5	89.5
125°	39.0	46.7	53.4	59.6	65.9	70.7	75.0	78.4	81.3	82.2	82.2
127.5°	35.1	42.3	48.6	54.4	59.6	64.5	68.8	72.1	74.6	75.5	75.5
130°	31.7	38.0	43.8	49.5	54.8	58.7	63.0	65.9	67.3	68.8	69.3
132.5°	28.4	34.1	39.4	44.3	49.5	53.4	56.8	59.6	61.1	62.5	63.0
135°	25.0	30.3	35.1	39.9	44.3	48.1	51.0	53.4	55.3	56.3	56.8
137.5°	21.2	26.9	31.3	35.1	39.9	42.8	46.2	47.6	49.5	50.5	50.5
140°	17.8	22.1	26.9	30.8	34.6	37.5	40.4	42.8	44.3	44.7	44.7
142.5°	14.4	18.3	22.1	26.9	30.3	32.7	35.6	37.5	38.5	39.0	39.4
145°	11.5	14.4	17.8	22.1	26.0	28.9	30.3	32.2	33.2	33.7	34.1
147.5°	8.7	11.5	14.4	17.3	21.2	24.0	25.5	27.4	28.4	28.9	28.9
150°	6.7	8.7	10.6	13.5	16.4	19.7	21.6	23.1	23.6	24.0	24.0
152.5°	4.8	6.7	8.2	10.1	12.0	14.9	17.8	18.8	19.2	19.7	19.7
155°	3.4	4.8	5.8	7.2	8.7	11.1	13.5	14.9	15.4	15.9	15.9
157.5°	2.4	3.4	3.8	5.3	6.3	7.2	9.1	11.5	12.0	12.0	12.0
160°	1.4	1.9	2.4	3.4	3.8	4.8	5.8	7.2	8.7	8.7	8.7
162.5°	1.0	1.4	1.4	1.9	1.9	2.9	3.4	3.8	5.3	5.8	5.8
165°	0.5	1.0	1.0	1.0	1.0	1.0	1.4	1.4	2.4	2.9	2.9
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-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	455.0	456.0	455.5	455.5	455.5	456.4	455.5	451.2	452.1	453.1	454.0
5°	454.5	455.0	455.0	454.5	454.5	455.5	454.5	450.2	451.2	452.1	452.6
7.5°	452.6	453.1	453.1	453.1	452.6	453.6	452.1	448.3	448.3	449.2	449.7
10°	450.2	451.2	450.7	450.2	450.2	450.2	449.2	444.9	444.9	445.4	445.9
12.5°	447.3	447.3	447.3	446.8	446.3	446.3	445.4	441.1	440.6	441.5	441.1
15°	443.5	444.4	443.5	443.0	442.0	442.0	440.6	436.2	435.3	435.8	435.3
17.5°	440.1	440.6	439.6	438.7	437.7	437.2	435.8	431.0	429.5	430.0	429.0
20°	436.7	436.7	435.8	434.8	433.4	431.9	430.0	425.2	422.8	422.8	420.9
22.5°	432.4	432.4	431.4	430.0	428.6	426.6	424.7	419.9	416.0	415.1	413.6
25°	427.6	427.1	426.6	425.2	422.3	420.4	418.5	413.2	408.8	406.9	404.5
27.5°	421.8	421.8	420.4	418.9	416.0	413.6	411.2	406.4	400.7	398.3	394.9
30°	415.6	415.6	414.1	412.2	409.3	406.4	403.5	397.8	392.0	388.6	384.8
32.5°	409.3	408.8	407.4	405.5	402.6	398.3	395.8	390.1	383.3	379.5	374.2
35°	401.6	401.1	399.7	397.3	393.4	390.1	386.2	380.9	373.2	368.4	362.7
37.5°	393.9	393.4	392.5	389.1	385.3	381.4	376.6	371.3	364.1	357.8	352.1
40°	386.2	385.7	383.8	381.4	376.6	371.8	367.0	361.7	354.0	346.8	340.5
42.5°	378.0	377.6	375.2	372.3	367.0	362.2	356.4	350.6	342.9	334.3	328.0
45°	369.9	368.9	366.5	363.1	357.4	352.1	346.3	339.6	331.9	323.7	315.5
47.5°	361.2	359.8	357.4	352.6	347.7	342.0	335.2	328.0	320.3	311.2	302.5
50°	351.6	350.6	347.7	343.4	337.6	331.9	324.2	317.0	307.8	299.2	288.6
52.5°	342.5	340.5	338.1	333.3	327.5	321.3	313.1	304.5	295.3	287.1	276.1
55°	332.8	331.9	328.5	324.7	317.4	310.2	302.5	293.4	283.3	273.7	263.1
57.5°	323.7	321.8	318.9	313.6	307.3	300.1	292.0	282.3	271.3	261.2	249.6
60°	314.6	311.7	308.3	303.5	296.8	289.1	280.4	270.3	259.2	248.2	236.2
62.5°	304.5	302.1	298.2	293.4	286.7	278.5	269.3	258.8	248.2	236.6	223.7
65°	294.4	292.0	288.1	283.3	276.6	267.4	257.8	247.2	235.2	224.1	210.2
67.5°	284.3	281.9	277.5	272.2	265.5	256.8	246.7	235.7	223.7	211.6	197.2
70°	274.2	271.3	267.4	261.7	254.9	245.8	235.7	224.1	212.1	199.1	184.7
72.5°	264.1	261.7	256.8	251.6	244.3	235.2	225.1	213.6	201.0	187.6	173.2
75°	254.0	251.1	247.7	241.5	233.8	225.1	214.5	203.0	189.5	176.5	161.6
77.5°	243.9	241.5	237.1	230.9	223.7	214.5	203.9	192.4	178.9	165.5	149.6
80°	233.8	230.9	227.5	221.7	213.6	204.4	193.4	181.8	168.3	154.4	138.5
82.5°	223.7	220.8	216.9	211.1	203.5	194.3	183.7	171.2	157.8	143.3	128.4
85°	213.6	211.1	206.8	201.0	192.9	183.7	173.2	162.1	147.7	133.2	118.3
87.5°	203.5	201.0	196.7	190.9	183.3	174.1	163.5	152.0	138.0	124.6	108.2
90°	193.8	191.9	187.6	181.8	174.1	165.0	155.4	142.9	129.4	115.9	100.5
92.5°	185.2	183.3	179.4	173.6	166.9	156.8	147.2	135.2	121.7	107.7	92.8
95°	177.5	175.1	171.2	165.9	157.8	149.1	139.5	127.5	114.5	100.5	86.1
97.5°	168.8	166.4	162.6	156.8	150.1	140.9	131.3	119.8	106.8	93.8	79.4
100°	160.2	157.8	153.4	148.6	141.9	132.8	123.6	112.1	100.0	87.5	73.6
102.5°	151.5	149.1	145.3	140.4	133.7	125.5	116.4	105.3	93.3	80.8	67.8
105°	143.3	140.9	137.1	132.3	126.0	117.8	108.2	98.6	87.1	75.0	62.5
107.5°	135.2	132.8	129.4	124.6	118.3	110.6	101.5	91.4	80.8	69.3	57.2
110°	127.0	125.1	121.2	116.9	110.6	102.9	94.8	85.1	74.6	64.0	52.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	119.3	117.4	113.5	108.7	103.4	96.2	88.0	78.9	68.8	58.7	47.6
115°	111.6	109.2	105.8	101.5	96.2	89.5	81.8	73.6	63.5	53.9	43.8
117.5°	103.9	102.0	98.6	94.3	89.5	82.7	75.5	67.8	58.2	49.1	39.9
120°	96.2	94.8	91.4	87.5	82.7	76.5	69.7	62.0	53.4	44.7	36.1
122.5°	89.0	87.5	84.2	80.8	76.0	70.2	64.0	56.8	49.1	40.9	33.2
125°	82.2	80.3	77.4	74.1	69.7	64.5	58.2	51.5	44.3	37.0	29.8
127.5°	75.0	73.6	71.7	67.8	63.5	58.7	52.9	47.1	40.4	33.7	26.9
130°	69.3	67.3	64.9	62.0	58.2	53.4	48.1	42.3	36.6	30.3	23.6
132.5°	62.5	60.6	58.7	55.8	52.4	48.1	43.3	38.0	32.7	26.9	21.2
135°	56.3	54.8	52.9	50.0	46.7	43.3	38.5	33.7	28.9	23.6	18.8
137.5°	50.5	49.1	47.1	45.2	41.8	38.5	34.1	29.8	25.5	20.7	16.4
140°	44.7	43.8	41.8	39.9	37.0	33.7	29.8	26.0	22.1	17.8	13.9
142.5°	39.0	38.0	36.6	34.6	32.2	29.3	26.0	22.6	18.8	15.4	12.0
145°	33.7	33.2	31.7	29.8	27.9	25.0	22.1	19.2	15.9	13.0	9.6
147.5°	28.4	27.9	26.9	25.5	23.6	21.2	18.8	15.9	13.5	10.6	7.7
150°	23.6	23.1	22.6	20.7	19.7	17.3	15.4	13.0	11.1	8.2	6.3
152.5°	19.2	19.2	18.3	16.8	15.9	13.9	12.5	10.6	8.7	6.7	4.8
155°	15.4	14.9	14.4	13.5	12.5	11.1	9.6	8.2	6.7	4.8	3.4
157.5°	12.0	11.5	11.1	10.1	9.1	8.7	7.2	5.8	4.3	3.4	2.4
160°	8.7	8.2	7.7	7.2	6.7	5.8	4.8	3.8	2.9	1.9	1.4
162.5°	5.8	5.3	5.3	4.8	4.3	3.4	2.9	2.4	1.9	1.4	1.0
165°	2.9	2.9	2.4	2.4	1.9	1.4	1.4	1.4	1.0	1.0	0.5
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-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	453.6	453.6	455.5	455.0	453.6	456.4	459.8
5°	452.1	452.1	453.6	453.6	452.1	455.0	457.9
7.5°	449.7	449.2	450.7	450.7	448.8	451.2	454.5
10°	445.4	444.9	446.3	446.3	444.4	446.8	449.7
12.5°	440.6	439.6	441.1	440.6	438.7	441.1	443.9
15°	434.3	433.8	434.8	433.8	431.9	434.3	437.2
17.5°	428.1	426.6	427.1	427.1	423.7	426.1	428.6
20°	419.9	418.0	418.5	418.0	415.6	417.0	419.9
22.5°	411.7	408.8	408.8	408.4	405.5	407.4	409.8
25°	401.6	398.3	398.3	397.8	394.4	395.8	398.3
27.5°	391.5	388.2	386.7	386.2	382.9	382.9	386.2
30°	380.9	376.1	375.2	373.7	370.4	370.4	373.2
32.5°	370.8	364.1	362.2	360.3	356.9	356.4	359.8
35°	357.4	352.1	348.7	346.8	342.9	342.0	344.9
37.5°	346.3	339.6	334.8	332.4	328.5	327.1	330.9
40°	334.3	327.1	320.8	319.4	313.6	311.7	315.0
42.5°	320.8	313.1	306.9	304.0	299.6	297.7	298.2
45°	307.3	299.2	292.4	288.6	284.3	280.9	282.8
47.5°	293.4	286.2	278.0	272.2	266.9	264.5	265.5
50°	279.4	270.8	263.1	256.8	250.6	247.7	249.6
52.5°	265.5	256.4	247.7	241.0	233.8	230.9	231.4
55°	252.0	242.4	232.3	225.1	218.4	214.0	213.1
57.5°	238.6	228.0	217.4	209.2	200.6	196.7	195.3
60°	224.1	213.1	202.0	192.4	183.3	178.9	177.0
62.5°	210.7	198.6	186.1	176.0	166.9	161.1	159.7
65°	197.7	183.7	171.2	159.7	149.6	143.3	141.4
67.5°	183.7	169.3	155.8	143.3	133.7	125.5	124.6
70°	170.7	155.4	140.4	127.5	116.9	108.7	104.9
72.5°	157.8	141.9	126.5	112.5	99.1	91.4	88.5
75°	145.3	128.9	112.5	98.1	83.2	74.1	71.2
77.5°	133.7	116.9	99.6	83.7	69.7	58.2	54.4
80°	122.6	105.3	87.1	70.7	55.8	43.3	39.0
82.5°	111.1	94.8	76.0	58.7	43.3	30.3	25.0
85°	101.0	84.7	65.9	48.6	33.2	19.2	13.5
87.5°	92.8	75.0	58.2	40.9	25.0	11.1	3.8
90°	84.7	67.3	50.5	33.7	18.8	6.3	0.5
92.5°	77.4	61.1	44.3	28.9	14.4	4.3	0.5
95°	70.7	54.8	39.0	24.0	11.5	2.9	0.5
97.5°	64.5	49.5	34.6	20.7	9.6	2.4	0.5
100°	59.2	44.7	30.8	18.3	8.2	1.9	0.5
102.5°	53.9	40.4	27.4	15.9	7.2	1.4	0.5
105°	49.5	36.6	24.5	14.4	6.3	1.4	0.5
107.5°	45.2	33.2	22.1	12.5	5.3	1.0	0.5
110°	40.9	30.3	19.7	11.1	4.8	1.0	0.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	37.5	27.4	17.8	10.1	3.8	1.0	0.5
115°	34.1	24.5	15.9	8.7	3.4	0.5	0.5
117.5°	30.8	22.1	13.9	7.7	2.9	0.5	0.5
120°	27.9	19.7	12.5	6.7	2.4	0.5	0.5
122.5°	25.0	17.8	11.1	5.8	1.9	0.5	0.5
125°	22.6	15.9	9.6	4.8	1.4	0.5	0.5
127.5°	20.2	13.9	8.7	4.3	1.4	0.5	0.5
130°	17.8	12.5	7.2	3.4	1.0	0.5	0.5
132.5°	15.9	10.6	6.3	2.9	1.0	0.5	0.5
135°	13.9	9.1	5.3	1.9	1.0	0.5	0.5
137.5°	12.0	7.7	4.3	1.4	0.5	0.5	0.5
140°	10.1	6.7	3.4	1.4	0.5	0.5	0.5
142.5°	8.7	5.3	2.4	1.0	0.5	0.5	0.5
145°	6.7	4.3	1.9	1.0	0.5	0.5	0.5
147.5°	5.3	3.4	1.4	1.0	0.5	0.5	0.5
150°	3.8	2.4	1.4	0.5	0.5	0.5	0.5
152.5°	2.9	1.9	1.0	0.5	0.5	0.5	0.5
155°	1.9	1.4	1.0	0.5	0.5	0.5	0.5
157.5°	1.4	1.0	0.5	0.5	0.5	0.5	0.5
160°	1.0	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)