

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1212971

Luminaire Tested: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

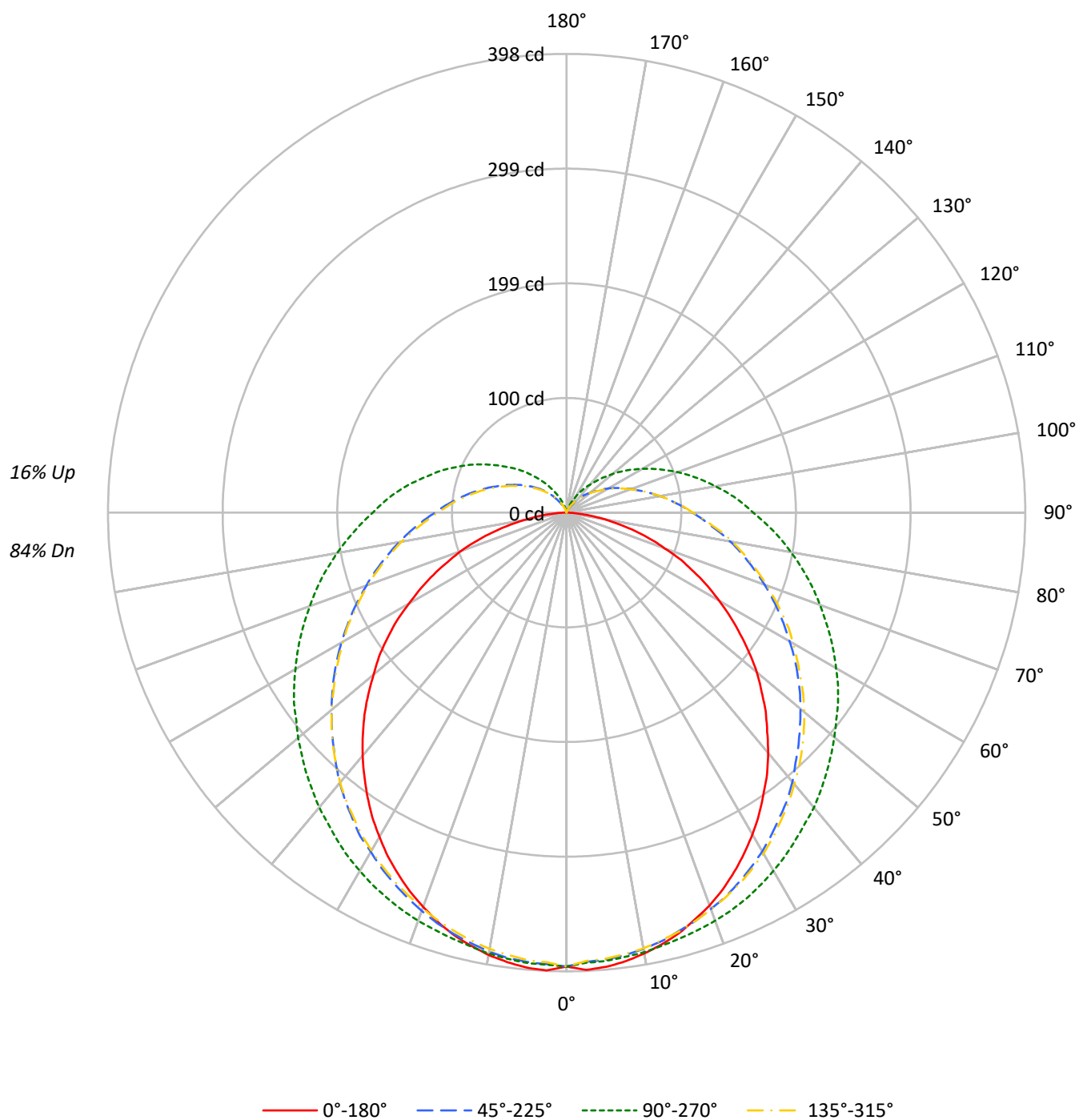
Lumens per Lamp: N/A
Luminaire Lumens: 1711.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	6365	6365	6365	6365
5°	6382	6134	6395	6161
10°	6305	5960	6326	5978
15°	6214	5811	6242	5817
20°	6099	5702	6120	5702
25°	5961	5605	5995	5599
30°	5807	5505	5852	5505
35°	5631	5414	5694	5420
40°	5455	5359	5521	5359
45°	5255	5301	5335	5310
50°	5045	5269	5113	5283
55°	4760	5274	4910	5296
60°	4460	5289	4605	5322
65°	4118	5343	4300	5396
70°	3654	5441	3936	5518
75°	3114	5618	3408	5727
80°	2309	5881	2625	6018
85°	1255	6306	1568	6481

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 7242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	2.2
10°-20°	107.2	6.3
20°-30°	164.4	9.6
30°-40°	202.8	11.9
40°-50°	220.0	12.9
50°-60°	216.9	12.7
60°-70°	196.1	11.5
70°-80°	163.3	9.5
80°-90°	126.5	7.4
90°-100°	96.0	5.6
100°-110°	71.0	4.2
110°-120°	49.4	2.9
120°-130°	31.5	1.8
130°-140°	17.7	1.0
140°-150°	8.1	0.5
150°-160°	2.5	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	308.9	18.1
0°-40°	511.7	29.9
0°-60°	948.6	55.4
0°-90°	1434.6	83.8
90°-120°	216.3	12.6
90°-150°	273.6	16.0
90°-180°	276.0	16.1
0°-180°	1711.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	394	394	394	394	394	
5°	396	390	396	392	396	38
15°	378	382	379	383	378	106
25°	344	369	346	369	344	158
35°	298	346	301	347	298	187
45°	244	319	248	320	244	188
55°	184	288	190	289	184	165
65°	122	252	128	255	122	121
75°	62	216	67	220	62	65
85°	12	180	14	185	12	14
90°	0	162	1	168	0	1
95°	0	147	0	154	0	0
105°	0	117	0	124	0	0
115°	0	89	0	97	0	0
125°	0	64	0	71	0	0
135°	0	42	0	49	0	0
145°	0	24	0	30	0	0
155°	0	10	0	14	0	0
165°	0	2	0	2	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	397.1	397.1	396.7	395.9	396.3	397.6	396.7	394.7	393.4	390.1	390.9
5°	395.5	395.5	395.1	394.2	394.7	396.3	395.5	393.8	392.2	389.3	390.5
7.5°	392.6	392.6	392.2	391.3	392.2	393.8	393.0	391.3	390.1	387.2	388.4
10°	388.4	388.8	388.4	387.2	388.8	390.5	390.1	388.0	386.8	384.3	385.5
12.5°	383.4	383.9	383.4	383.0	383.9	386.3	385.5	383.9	383.0	380.9	382.2
15°	377.6	378.0	377.2	377.2	378.0	380.5	380.5	378.9	378.0	376.0	378.5
17.5°	370.1	370.6	370.1	370.1	371.0	373.5	373.9	373.1	372.2	371.4	373.9
20°	362.7	362.2	362.2	361.8	363.5	367.2	366.8	366.8	366.0	366.0	368.9
22.5°	353.9	353.9	353.5	353.5	355.6	358.9	358.9	359.8	358.9	360.6	363.1
25°	344.0	344.4	344.0	344.8	346.5	350.2	350.6	351.9	352.3	353.9	356.8
27.5°	333.6	334.0	333.6	334.4	337.3	340.2	342.3	344.0	344.4	346.9	350.6
30°	322.4	322.4	322.8	323.6	326.9	331.5	333.2	335.2	335.2	339.4	343.1
32.5°	310.7	310.7	310.7	312.4	316.1	321.5	323.6	326.1	326.9	331.1	335.2
35°	297.9	298.3	298.3	299.5	304.5	309.9	312.8	315.7	317.4	322.4	326.5
37.5°	285.8	286.6	285.4	287.1	294.1	298.7	302.0	304.9	307.8	314.5	317.8
40°	272.1	272.9	272.5	275.8	281.7	287.5	291.2	294.1	298.3	304.9	308.7
42.5°	257.6	258.4	259.2	263.0	269.2	275.0	279.6	283.3	288.3	294.1	300.4
45°	244.3	244.3	245.5	250.1	256.7	263.0	268.4	272.5	278.3	284.6	290.8
47.5°	229.3	229.7	231.4	236.8	243.9	251.3	256.3	261.7	267.9	274.6	281.7
50°	215.6	215.6	218.1	223.9	230.6	238.9	244.3	250.5	257.1	265.0	272.1
52.5°	199.8	200.6	204.4	209.8	218.5	226.0	232.2	238.9	246.8	255.1	263.0
55°	184.0	185.7	188.6	196.1	205.2	212.3	219.8	228.1	235.5	244.7	253.8
57.5°	168.7	169.9	174.5	182.0	191.5	200.2	208.1	216.0	225.2	234.3	243.9
60°	152.9	154.5	159.9	167.4	177.8	186.9	196.1	204.4	213.9	223.5	233.5
62.5°	137.9	139.2	145.4	154.1	164.5	174.5	183.6	193.6	204.0	213.1	223.1
65°	122.1	124.2	131.3	139.2	151.2	161.2	171.6	182.4	193.2	203.1	212.7
67.5°	107.6	108.8	116.3	125.5	137.5	148.7	159.5	171.2	182.4	192.8	202.3
70°	90.6	94.7	102.2	111.7	124.6	136.3	147.9	159.9	172.0	182.8	191.9
72.5°	76.4	79.8	88.1	98.5	110.9	124.6	136.7	149.6	161.6	172.8	182.4
75°	61.5	64.8	74.4	86.0	98.9	113.4	125.9	139.2	151.6	162.8	172.8
77.5°	46.9	51.1	61.5	73.5	87.7	102.6	115.5	128.8	141.7	153.7	163.7
80°	33.6	38.2	49.4	63.1	76.9	91.8	105.9	119.2	132.1	144.2	154.5
82.5°	21.6	26.6	38.6	52.3	66.9	81.8	96.4	109.7	122.6	134.6	145.4
85°	11.6	17.0	29.5	43.2	57.7	72.7	87.2	101.4	113.8	125.0	136.7
87.5°	3.3	10.0	22.0	35.7	50.7	64.4	78.5	92.6	105.1	117.1	127.5
90°	0.4	5.8	16.6	29.5	44.0	57.3	71.5	84.7	97.2	109.3	119.6
92.5°	0.4	3.7	12.9	24.5	37.8	51.5	65.6	78.5	90.1	102.2	112.6
95°	0.4	2.9	10.4	20.8	33.2	46.1	59.4	71.9	83.9	95.1	105.5
97.5°	0.4	2.1	8.3	17.9	29.1	41.1	54.0	66.5	78.1	88.9	98.5
100°	0.4	1.7	6.6	15.4	25.3	37.0	48.6	60.7	71.9	82.3	92.2
102.5°	0.4	1.2	5.8	12.9	22.4	32.8	44.0	55.3	66.1	76.0	86.0
105°	0.4	1.2	5.0	11.2	19.9	29.5	39.9	50.7	60.7	70.2	79.3
107.5°	0.4	0.8	4.2	9.6	17.4	26.6	36.1	46.5	55.7	64.8	73.5
110°	0.4	0.8	3.3	8.7	15.4	23.7	32.8	42.4	51.1	59.8	68.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.8	2.9	7.5	13.3	21.2	29.5	38.2	46.5	55.3	62.7
115°	0.4	0.8	2.5	6.6	12.5	18.3	26.6	34.5	42.8	50.7	57.7
117.5°	0.4	0.8	2.1	5.4	10.8	16.6	23.3	31.2	38.6	46.1	52.8
120°	0.4	0.8	1.7	5.0	9.6	15.0	20.8	27.8	34.9	42.0	49.0
122.5°	0.4	0.4	1.7	4.2	8.3	13.3	19.1	24.5	31.2	37.8	44.0
125°	0.4	0.4	1.7	3.7	7.1	12.0	17.0	22.0	27.8	33.6	39.0
127.5°	0.4	0.4	1.2	2.9	6.2	10.4	15.0	20.4	24.5	29.9	35.3
130°	0.4	0.4	1.2	2.5	5.4	8.7	13.3	17.9	22.8	26.6	31.2
132.5°	0.4	0.4	1.2	2.1	4.2	7.1	11.2	15.4	19.9	24.1	27.8
135°	0.4	0.4	0.8	1.7	3.3	5.8	9.1	12.9	17.4	21.6	25.3
137.5°	0.4	0.4	0.8	1.7	2.5	5.0	7.1	10.4	14.5	18.3	22.0
140°	0.4	0.4	0.8	1.2	2.1	3.7	5.8	8.3	11.6	15.0	19.1
142.5°	0.4	0.4	0.4	1.2	1.7	2.9	4.6	6.6	9.1	12.0	15.4
145°	0.4	0.4	0.4	1.2	1.7	2.1	3.7	5.4	7.1	9.1	12.0
147.5°	0.4	0.4	0.4	0.8	1.2	1.7	2.9	4.2	5.4	7.1	8.7
150°	0.4	0.4	0.4	0.8	1.2	1.7	2.1	2.9	4.2	5.8	7.1
152.5°	0.4	0.4	0.4	0.8	0.8	1.2	1.7	2.1	2.9	4.2	5.0
155°	0.4	0.4	0.4	0.4	0.8	1.2	1.7	1.7	2.1	2.9	3.7
157.5°	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	1.7	1.7	2.5
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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	390.9	391.3	392.6	392.6	391.7	391.7	391.3	390.9	391.3	392.2	392.2
5°	390.1	390.5	391.7	392.2	391.3	390.9	390.9	390.5	390.9	391.7	391.7
7.5°	388.4	388.8	390.1	390.5	389.7	389.7	389.3	388.8	389.7	390.1	390.1
10°	385.9	386.3	388.0	388.4	388.0	387.6	387.6	387.2	387.6	388.4	388.4
12.5°	382.6	383.4	385.5	385.5	385.5	385.1	385.1	384.7	385.1	385.9	385.5
15°	378.9	380.5	382.2	383.0	383.0	383.0	382.6	382.2	383.0	383.4	383.0
17.5°	374.7	376.8	379.3	380.1	380.1	380.5	380.1	379.7	380.5	380.5	380.1
20°	370.6	372.6	375.1	376.0	376.8	377.2	377.2	376.8	377.2	377.6	377.2
22.5°	365.2	367.7	370.6	371.8	372.6	373.5	373.5	373.5	373.9	374.3	373.5
25°	359.3	362.2	365.6	366.8	368.5	368.9	369.3	369.3	369.7	370.1	368.9
27.5°	353.1	356.4	359.8	361.8	363.1	363.9	363.9	364.3	364.7	365.2	363.9
30°	345.6	350.6	353.5	355.2	356.8	358.1	358.5	358.9	359.3	359.8	358.5
32.5°	339.0	343.1	346.9	349.0	351.0	352.7	353.1	353.1	353.9	353.9	352.7
35°	331.1	336.1	339.8	341.9	344.4	345.6	346.5	346.5	347.3	347.3	346.0
37.5°	323.2	328.2	332.3	334.8	337.7	339.4	339.8	339.8	340.6	340.6	339.0
40°	314.9	320.3	324.9	327.8	330.3	332.3	332.8	334.0	334.0	333.6	331.9
42.5°	306.6	311.6	316.6	319.9	323.2	325.3	326.1	326.5	326.5	326.1	324.9
45°	297.4	303.3	307.8	312.0	315.3	317.4	318.6	319.0	319.0	318.2	317.0
47.5°	288.7	294.5	299.1	303.7	307.0	309.5	310.7	311.2	310.7	310.3	309.1
50°	279.6	286.2	290.8	295.4	298.7	300.8	302.8	303.3	302.8	302.4	299.9
52.5°	270.0	277.1	282.1	286.6	290.4	292.9	294.5	295.0	295.0	294.1	292.5
55°	260.5	266.7	272.9	277.9	282.1	284.6	286.6	287.5	286.6	285.8	283.7
57.5°	251.7	257.6	263.8	269.2	273.3	276.7	278.3	279.2	278.3	277.1	275.0
60°	241.4	247.6	254.7	259.6	264.2	267.5	268.4	270.0	269.2	267.9	265.9
62.5°	231.4	238.9	245.1	251.3	255.1	258.8	260.5	261.3	260.5	259.2	257.1
65°	221.0	229.3	235.5	241.8	245.9	249.7	251.7	252.2	251.3	250.1	248.0
67.5°	211.5	219.3	226.0	232.6	236.4	240.1	242.2	243.0	242.2	240.5	238.5
70°	201.9	209.8	217.7	222.7	227.2	231.4	232.6	233.9	233.1	231.4	228.9
72.5°	192.3	200.6	208.5	213.5	218.5	222.3	223.9	225.2	224.3	222.7	219.8
75°	182.4	191.1	199.0	204.4	209.4	213.1	214.8	216.0	215.2	213.5	210.2
77.5°	173.2	182.0	189.4	195.2	200.2	203.6	206.5	206.9	206.1	204.4	201.1
80°	163.7	172.4	180.3	186.1	191.1	194.4	196.5	197.7	196.9	195.2	191.9
82.5°	155.4	163.3	171.2	177.0	182.0	186.1	187.8	189.0	188.6	186.1	183.6
85°	146.2	155.4	161.6	167.8	172.8	177.0	178.2	179.9	179.5	177.4	174.1
87.5°	137.1	146.2	153.7	159.9	164.5	167.8	169.9	170.7	170.3	168.2	164.5
90°	129.6	137.9	145.4	152.0	155.8	159.5	161.6	162.0	162.0	159.5	156.6
92.5°	122.6	130.4	137.9	144.2	148.7	152.0	153.7	154.5	154.1	152.0	148.7
95°	114.7	123.4	130.4	136.7	141.2	144.6	146.2	147.1	146.6	144.6	141.2
97.5°	108.0	115.9	123.0	128.8	133.4	136.7	138.3	139.2	139.2	137.1	133.8
100°	101.4	109.3	115.9	121.7	125.9	129.2	130.9	131.3	130.9	129.2	125.9
102.5°	94.7	102.2	108.8	114.2	118.8	121.7	123.4	123.8	123.8	121.7	118.4
105°	88.1	95.5	101.8	107.6	111.3	114.2	115.5	116.7	116.3	114.7	111.3
107.5°	81.8	89.3	95.1	100.5	104.3	107.2	108.4	109.7	109.3	107.6	104.3
110°	76.0	83.1	88.5	93.9	97.2	100.1	102.2	102.6	101.8	100.1	97.2

TEST NUMBER: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	70.6	76.9	82.3	87.2	91.0	93.1	94.7	95.5	94.7	93.1	91.0
115°	64.8	71.0	76.4	81.0	84.3	86.8	88.1	88.9	88.1	86.4	84.3
117.5°	59.4	65.2	70.6	75.2	78.1	80.2	81.4	82.3	81.4	80.2	78.1
120°	54.8	59.8	64.8	69.0	72.3	73.9	75.2	76.0	75.6	73.9	71.9
122.5°	49.4	54.8	59.4	63.6	66.5	68.1	69.0	69.8	69.4	68.1	66.1
125°	44.9	49.4	54.0	57.7	60.7	62.3	63.1	64.0	63.6	62.3	59.8
127.5°	39.9	44.9	48.6	52.3	54.4	56.9	57.3	58.2	57.7	56.5	54.4
130°	36.1	39.9	43.6	46.9	49.4	51.1	51.9	52.3	51.5	50.7	48.6
132.5°	31.6	35.7	39.0	42.0	43.6	45.3	46.1	46.5	46.5	45.3	43.6
135°	28.2	31.2	34.1	37.0	38.6	40.3	41.1	41.5	41.1	40.3	38.6
137.5°	25.3	27.8	29.9	32.4	34.5	35.3	36.1	36.1	35.7	35.3	34.1
140°	22.0	24.9	27.0	28.7	30.3	30.7	31.6	31.6	31.2	30.7	29.9
142.5°	18.7	21.2	23.3	25.3	26.6	27.4	27.8	28.2	27.8	27.4	26.2
145°	15.0	17.9	19.9	21.2	22.8	23.3	23.7	24.1	23.7	23.3	22.0
147.5°	11.6	14.1	16.2	17.9	19.1	19.5	19.9	20.4	19.9	19.1	18.7
150°	8.3	10.4	12.9	14.5	15.4	16.2	16.2	16.2	16.6	15.8	15.0
152.5°	6.6	7.5	9.1	10.8	12.0	12.5	12.9	12.9	12.5	12.5	11.6
155°	4.6	5.4	6.6	7.9	9.1	9.6	10.0	10.0	9.6	9.6	9.1
157.5°	2.9	3.7	4.6	5.4	6.6	7.1	7.5	7.5	7.5	7.1	6.6
160°	1.7	2.1	2.5	3.3	4.2	4.6	5.0	5.0	5.0	5.0	4.6
162.5°	1.2	1.2	1.2	1.7	2.1	2.5	2.9	2.9	2.9	2.9	2.5
165°	0.8	0.8	0.8	0.8	0.8	1.2	1.7	1.7	1.7	1.7	1.7
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: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	391.7	391.7	392.2	391.3	388.8	389.3	389.3	390.9	391.7	392.2	394.2
5°	390.9	390.9	391.7	390.5	388.4	388.4	388.4	390.1	390.5	391.3	393.0
7.5°	389.7	389.7	390.1	388.8	386.3	386.3	385.9	387.6	388.4	388.8	390.5
10°	387.6	387.6	388.0	386.8	383.9	383.9	383.4	384.7	385.1	385.9	387.2
12.5°	384.7	384.7	384.7	383.4	380.5	380.1	379.7	380.9	380.9	381.4	382.6
15°	382.2	381.4	381.4	380.1	377.2	376.4	375.5	376.0	376.8	376.4	377.2
17.5°	379.3	378.5	377.6	376.4	372.6	371.4	370.6	371.0	370.6	370.1	371.0
20°	376.0	374.7	374.3	372.2	368.5	366.4	364.7	363.9	364.3	363.1	363.5
22.5°	372.2	370.6	369.7	367.2	363.5	361.0	358.9	357.3	356.8	355.2	355.6
25°	367.7	365.6	364.3	362.2	358.1	355.2	352.7	350.2	349.0	346.9	346.5
27.5°	362.2	360.2	358.5	356.4	352.3	348.5	345.6	342.3	340.6	338.2	336.9
30°	356.8	354.4	351.9	350.2	345.6	341.5	336.9	334.0	331.5	328.6	326.5
32.5°	350.2	347.7	345.2	342.7	338.6	333.6	329.8	325.3	322.4	319.0	316.6
35°	343.6	340.2	337.7	334.4	330.7	324.9	320.3	315.7	312.0	308.2	305.3
37.5°	336.1	333.6	329.8	326.9	322.4	316.6	311.6	305.8	302.4	297.4	293.7
40°	329.0	326.1	322.4	318.6	314.1	307.4	302.0	295.4	291.6	285.8	282.1
42.5°	322.0	317.8	314.1	309.9	304.9	298.7	292.0	285.4	280.4	275.0	269.6
45°	314.1	309.5	304.9	300.4	295.4	289.1	282.1	275.0	268.8	263.8	257.1
47.5°	305.8	301.2	295.8	290.8	285.4	279.2	271.7	264.2	257.6	251.7	244.7
50°	297.4	292.9	287.1	281.7	275.4	269.2	261.3	252.6	245.5	238.0	231.8
52.5°	288.7	284.2	278.7	271.7	265.0	258.8	250.5	241.4	233.5	227.2	219.3
55°	280.0	275.4	269.2	262.1	255.5	247.6	239.7	230.6	221.8	214.4	206.5
57.5°	270.9	266.7	259.6	253.8	245.5	237.2	228.9	220.2	210.6	201.9	192.8
60°	261.7	257.1	250.5	243.4	235.1	226.8	218.1	208.5	198.6	189.0	180.7
62.5°	253.4	247.6	241.4	233.9	225.2	217.3	207.3	196.9	186.9	177.0	167.0
65°	243.9	237.6	231.8	224.3	215.2	206.1	196.1	185.7	174.9	164.1	154.1
67.5°	234.3	228.1	221.8	214.4	204.8	195.2	184.9	174.5	162.4	152.0	140.4
70°	224.7	219.8	211.9	204.0	195.2	184.9	174.5	163.3	150.8	139.6	127.5
72.5°	215.2	210.2	202.3	194.0	185.7	174.9	163.7	152.5	140.8	128.0	115.1
75°	206.1	199.8	192.8	184.9	176.1	164.9	153.7	142.1	128.4	116.3	103.0
77.5°	197.3	191.5	184.4	175.7	166.2	155.4	143.7	131.7	118.0	105.1	90.6
80°	187.8	182.0	174.9	166.2	156.6	146.2	133.8	121.3	108.0	93.9	78.9
82.5°	178.6	173.2	165.3	157.4	147.1	136.7	124.2	111.7	97.6	83.9	69.4
85°	169.1	163.7	156.2	147.9	137.9	126.7	115.1	102.6	88.5	74.4	59.8
87.5°	160.8	154.5	147.1	138.8	128.8	118.0	106.8	93.5	79.8	66.1	51.1
90°	152.0	146.2	138.8	130.4	120.5	109.7	98.0	85.6	72.3	58.2	44.0
92.5°	144.6	138.3	131.3	123.0	113.0	102.6	91.0	78.5	65.6	51.9	38.2
95°	137.1	130.9	124.2	115.9	105.9	95.5	83.9	71.9	59.4	46.1	33.2
97.5°	128.8	123.4	116.7	108.8	98.9	88.9	77.7	66.1	54.0	41.1	29.1
100°	122.1	115.9	109.7	101.4	92.2	82.7	71.5	60.2	48.6	36.6	25.3
102.5°	114.7	108.8	102.6	94.7	85.6	76.0	65.6	54.8	44.0	32.8	22.0
105°	107.6	102.2	95.5	88.1	79.3	70.2	60.2	50.3	39.9	29.1	19.5
107.5°	100.5	95.1	88.9	81.8	73.5	64.4	55.3	45.3	35.7	26.2	17.4
110°	93.5	88.5	82.7	75.6	67.7	59.4	50.7	41.5	32.0	23.3	15.4

TEST NUMBER: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	87.2	82.3	76.4	69.8	62.3	54.4	46.1	37.4	28.7	20.8	13.3
115°	81.0	76.4	70.6	64.8	57.3	49.9	42.0	33.6	25.8	18.7	11.6
117.5°	74.8	70.2	64.8	59.0	52.3	45.3	37.8	29.9	23.3	16.6	10.4
120°	68.5	64.4	59.4	54.0	48.2	41.1	33.6	27.0	20.8	14.5	9.1
122.5°	62.7	59.0	54.4	49.4	43.2	36.6	30.3	24.5	18.7	12.9	7.5
125°	57.3	53.6	49.4	44.5	38.6	32.8	27.4	22.0	16.2	11.2	6.2
127.5°	51.9	48.2	44.0	39.5	34.9	29.5	24.5	19.5	14.5	10.0	5.4
130°	46.5	43.2	39.5	35.7	31.2	26.2	22.0	17.0	12.5	7.9	4.6
132.5°	41.1	38.6	35.3	31.6	27.4	23.7	19.1	15.0	10.8	7.1	4.2
135°	36.6	34.1	31.2	27.8	24.5	20.8	16.6	12.9	9.1	5.8	3.3
137.5°	32.4	30.3	27.4	24.5	21.6	17.9	14.5	10.8	7.5	5.0	2.5
140°	28.7	26.6	24.1	21.2	18.7	15.4	12.0	8.7	6.6	4.2	2.1
142.5°	24.9	22.8	20.8	18.3	15.8	12.9	10.0	7.5	5.4	3.3	2.1
145°	21.2	19.5	17.4	15.4	12.9	10.4	8.3	6.2	4.2	2.5	1.7
147.5°	17.4	16.2	14.1	12.5	10.4	8.3	6.6	5.0	3.3	2.1	1.2
150°	14.1	12.9	11.2	9.6	8.3	6.6	5.4	3.7	2.5	2.1	1.2
152.5°	10.8	10.0	8.7	7.9	6.6	5.0	3.7	2.9	2.1	1.7	0.8
155°	8.7	7.9	7.1	5.8	5.0	3.7	2.9	2.1	1.7	1.2	0.8
157.5°	6.2	5.8	5.0	4.2	3.3	2.5	2.1	2.1	1.2	0.8	0.4
160°	4.2	3.7	3.3	2.5	2.1	2.1	1.7	1.2	0.8	0.8	0.4
162.5°	2.5	2.1	2.1	2.1	1.7	1.7	1.2	0.8	0.8	0.4	0.4
165°	1.7	1.7	1.7	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: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	394.2	393.0	394.7	397.6	398.0	397.6	396.7	398.0	399.6	399.2	396.3
5°	393.4	391.7	393.4	396.3	396.3	395.9	395.5	396.7	398.4	398.0	395.5
7.5°	390.9	389.3	390.9	393.4	393.8	393.0	393.0	394.2	395.9	395.5	393.4
10°	387.6	385.9	386.8	389.7	390.5	389.7	389.7	390.9	393.0	392.6	390.1
12.5°	382.6	381.4	382.2	384.7	385.5	385.1	384.7	386.3	388.4	388.4	385.9
15°	377.2	375.5	376.4	379.3	379.7	378.9	379.3	380.5	383.0	383.0	380.9
17.5°	371.0	368.9	370.1	372.2	372.6	372.6	372.6	374.3	377.2	376.8	375.1
20°	363.9	361.0	361.8	363.9	364.7	364.7	364.7	367.7	369.7	369.7	368.1
22.5°	355.6	353.5	353.5	355.6	356.8	356.4	356.4	358.9	361.8	361.4	361.4
25°	346.0	344.4	343.6	346.0	346.5	346.9	347.7	350.2	353.5	353.5	353.9
27.5°	336.1	334.4	334.0	336.1	336.5	336.9	337.7	340.6	344.0	344.4	345.2
30°	326.5	324.0	323.2	324.9	325.7	326.1	326.1	330.7	333.6	334.8	336.5
32.5°	315.3	312.8	310.7	313.6	314.1	314.9	315.3	319.9	323.2	325.3	327.8
35°	304.1	299.9	299.1	301.2	302.0	302.4	303.3	308.2	312.8	314.5	317.8
37.5°	291.6	288.7	286.2	288.3	289.1	289.6	292.0	296.6	301.2	303.7	307.0
40°	280.0	276.3	274.2	275.4	276.3	276.7	279.6	284.6	290.0	292.9	297.0
42.5°	267.1	262.1	260.5	261.7	262.1	263.4	265.9	272.5	277.9	282.1	285.4
45°	254.2	250.5	246.8	248.0	248.4	249.3	253.0	260.1	265.9	270.9	274.6
47.5°	240.9	236.4	232.6	233.5	235.1	235.5	239.7	248.0	253.4	258.8	263.8
50°	227.7	221.4	218.5	218.5	219.3	221.4	226.8	235.1	240.9	247.2	252.6
52.5°	213.9	208.1	204.8	205.2	206.1	208.5	213.5	221.8	228.5	235.1	241.8
55°	200.2	194.0	190.7	189.8	190.7	194.0	199.8	208.5	215.2	223.1	230.1
57.5°	186.5	179.0	176.1	174.9	175.7	179.9	185.7	194.8	203.1	210.6	218.9
60°	171.6	165.8	160.8	157.9	159.9	165.3	171.6	181.1	189.8	198.2	207.3
62.5°	158.7	151.2	145.8	142.9	145.0	149.6	158.3	167.4	177.0	186.5	195.7
65°	144.2	136.7	130.4	127.5	129.6	135.0	143.7	153.7	164.1	173.6	184.4
67.5°	130.0	122.1	114.7	111.7	114.2	120.1	129.6	140.8	152.0	162.0	173.6
70°	116.3	107.6	99.7	97.6	99.3	107.2	116.3	127.5	139.2	150.8	162.8
72.5°	103.9	93.1	84.7	82.3	84.3	93.1	103.4	115.1	127.5	140.0	152.9
75°	89.3	79.3	70.2	67.3	69.8	77.7	90.6	103.0	116.3	129.6	141.7
77.5°	77.7	66.1	56.5	51.9	56.1	66.1	78.5	91.8	105.5	119.2	132.9
80°	65.6	53.6	43.2	38.2	42.8	53.6	66.1	80.6	96.0	109.7	122.1
82.5°	54.8	42.0	31.2	25.8	30.7	42.8	56.5	71.0	86.0	99.7	114.2
85°	44.9	31.6	20.4	14.5	21.6	32.4	46.9	61.9	77.3	91.4	105.5
87.5°	36.6	23.7	12.5	6.2	13.3	25.3	39.0	54.0	69.4	83.5	96.8
90°	29.9	17.0	6.6	0.8	7.9	19.1	32.4	46.9	61.5	76.0	89.3
92.5°	24.5	12.9	3.7	0.4	5.0	15.4	27.8	41.5	55.7	69.8	82.7
95°	20.4	10.0	2.5	0.4	3.7	12.0	23.7	37.0	50.3	64.0	76.9
97.5°	17.4	8.3	2.1	0.4	2.9	10.4	20.4	32.8	45.7	58.6	71.0
100°	15.0	6.6	1.7	0.4	2.5	8.7	17.9	29.1	41.1	53.6	65.6
102.5°	12.9	5.4	1.2	0.4	2.1	7.5	15.8	26.2	37.0	49.0	60.7
105°	11.2	4.6	1.2	0.4	1.7	6.6	14.1	23.3	34.1	44.9	56.1
107.5°	9.6	3.7	0.8	0.4	1.2	5.4	12.5	21.2	30.7	41.1	51.5
110°	8.3	3.3	0.8	0.4	1.2	5.0	10.8	19.1	27.8	37.4	47.4

TEST NUMBER: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.1	2.5	0.8	0.4	0.8	4.2	9.6	17.0	25.3	34.1	43.6
115°	6.2	2.1	0.4	0.4	0.8	3.7	8.7	15.4	22.8	31.2	39.9
117.5°	5.0	1.7	0.4	0.4	0.4	2.9	7.5	13.7	20.8	28.7	36.6
120°	4.2	1.7	0.4	0.4	0.4	2.5	6.6	12.0	18.7	25.8	33.2
122.5°	3.7	1.2	0.4	0.4	0.4	2.1	5.8	10.8	16.6	23.3	30.3
125°	3.3	1.2	0.4	0.4	0.4	1.7	5.0	9.6	15.0	20.8	27.4
127.5°	2.5	1.2	0.4	0.4	0.4	1.2	4.6	8.3	13.3	18.7	24.5
130°	2.1	0.8	0.4	0.4	0.4	1.2	3.7	7.5	11.6	16.6	22.0
132.5°	1.7	0.8	0.4	0.4	0.4	0.8	2.9	5.8	10.0	14.5	19.5
135°	1.7	0.8	0.4	0.4	0.4	0.8	2.1	5.0	8.3	12.5	16.6
137.5°	1.7	0.4	0.4	0.4	0.4	0.8	1.7	3.7	6.6	10.0	13.7
140°	1.2	0.4	0.4	0.4	0.4	0.4	1.2	2.9	5.4	8.3	11.6
142.5°	1.2	0.4	0.4	0.4	0.4	0.4	1.2	2.1	4.2	6.6	9.1
145°	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.7	3.3	5.0	7.5
147.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2	2.5	4.2	5.8
150°	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.7	2.9	4.6
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	2.1	2.9
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.7	2.1
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.7
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: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	395.1	392.2	393.0	392.6	393.4	394.7	394.7	394.2	394.2	393.4	392.6
5°	394.2	391.3	392.6	392.2	393.0	394.2	394.2	393.8	393.8	392.6	392.2
7.5°	391.7	389.7	390.5	390.5	391.3	392.6	392.6	392.2	392.2	390.9	390.5
10°	389.3	386.8	388.0	388.0	388.8	390.5	390.5	390.1	390.1	388.8	388.4
12.5°	385.1	382.6	384.7	385.1	385.9	387.6	387.2	387.2	387.2	385.9	385.5
15°	380.1	378.5	380.5	380.9	382.2	384.3	384.3	384.3	384.3	383.0	382.6
17.5°	374.7	373.5	375.5	376.4	378.0	380.1	380.1	380.5	380.9	380.1	379.7
20°	368.5	367.7	369.7	371.4	373.9	376.0	376.8	377.2	378.0	377.2	376.8
22.5°	361.4	361.4	364.3	366.0	368.9	371.0	372.2	373.5	374.3	373.5	373.1
25°	353.5	354.8	357.7	360.6	363.9	366.0	367.2	368.9	369.7	369.3	368.9
27.5°	346.0	347.7	351.4	354.4	357.3	360.6	361.8	363.9	364.7	364.7	364.3
30°	337.3	339.8	344.0	347.3	351.0	354.4	356.0	358.1	359.3	358.5	358.9
32.5°	329.0	333.2	336.5	340.2	344.4	347.7	349.8	352.3	353.5	353.1	353.5
35°	319.9	324.0	328.6	332.3	337.3	340.6	343.6	345.6	347.3	346.9	346.9
37.5°	309.9	315.3	319.9	324.9	329.4	333.2	336.1	338.6	340.2	340.2	340.2
40°	300.4	306.2	310.7	316.6	322.4	325.7	329.0	331.5	333.2	333.6	334.0
42.5°	290.0	296.2	301.6	307.8	313.6	317.8	321.5	324.4	326.1	326.9	326.5
45°	280.4	286.2	292.5	299.5	304.9	309.1	313.6	317.0	318.6	319.0	319.5
47.5°	269.6	276.3	283.3	290.4	295.8	301.2	305.3	308.7	310.3	311.6	311.6
50°	259.2	266.3	274.2	281.7	287.5	292.9	297.0	300.8	302.8	303.7	304.1
52.5°	249.7	256.3	264.6	272.1	277.9	283.3	288.7	292.9	295.0	295.8	295.8
55°	238.0	246.3	255.5	262.5	268.8	275.0	280.4	284.6	286.6	287.9	288.7
57.5°	227.2	236.0	245.5	253.0	260.5	266.3	271.3	276.7	278.3	280.0	280.4
60°	216.9	225.6	234.7	243.0	250.5	256.7	262.5	267.1	270.0	270.9	271.7
62.5°	206.1	215.2	224.7	233.1	240.9	248.4	253.8	258.0	261.3	262.5	263.4
65°	195.7	205.2	214.8	223.5	231.8	239.3	244.7	248.8	252.2	254.2	254.7
67.5°	184.4	194.8	204.8	213.9	222.3	230.1	235.5	239.7	243.0	245.5	245.9
70°	174.1	184.9	194.8	204.8	213.1	221.0	226.8	231.0	234.7	236.4	237.2
72.5°	164.1	175.3	185.7	195.7	204.0	211.9	218.1	222.3	226.0	228.1	228.5
75°	154.5	165.8	177.0	186.5	195.2	203.1	209.4	213.9	217.3	219.3	220.2
77.5°	145.0	156.6	167.8	177.4	186.5	194.4	199.8	205.2	208.5	211.0	211.0
80°	135.4	147.5	159.1	168.7	177.8	184.9	191.1	196.5	199.8	202.3	202.3
82.5°	127.1	138.8	150.0	159.5	168.7	176.6	182.8	187.8	191.5	193.2	193.6
85°	117.6	130.4	140.8	151.2	159.9	167.4	173.6	179.0	182.4	184.0	184.9
87.5°	109.7	122.1	133.4	142.5	151.2	158.7	165.8	170.3	173.6	175.7	176.6
90°	102.2	114.2	125.5	134.6	143.7	150.8	157.4	162.0	165.8	167.4	168.2
92.5°	95.5	107.6	118.4	127.5	136.3	144.2	150.4	155.0	158.3	159.9	161.2
95°	89.3	100.9	111.3	121.3	129.6	136.7	143.3	147.9	151.6	152.9	154.1
97.5°	83.1	94.3	104.7	114.2	123.0	129.6	135.8	140.4	143.3	145.4	146.6
100°	77.7	88.5	98.5	107.6	115.9	122.1	128.8	132.9	135.8	137.5	139.2
102.5°	71.9	82.7	92.2	100.9	109.7	115.5	121.7	125.9	128.4	131.3	131.3
105°	66.9	76.9	86.4	94.7	102.2	109.3	114.7	118.8	121.7	123.8	123.8
107.5°	61.5	71.5	80.6	89.3	96.4	103.0	108.0	111.7	115.1	116.3	117.6
110°	57.3	66.1	75.2	83.5	90.1	96.4	101.4	105.5	108.4	109.7	110.5

TEST NUMBER: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	52.3	61.5	69.8	77.7	84.3	90.1	95.1	98.5	101.4	103.0	103.4
115°	48.2	56.9	64.4	71.9	78.9	83.9	88.5	91.8	94.7	96.0	96.8
117.5°	44.5	52.3	59.8	66.1	72.7	78.1	82.7	85.6	88.1	89.7	90.6
120°	40.7	48.2	54.8	61.1	67.3	72.3	76.4	79.3	82.3	83.5	83.5
122.5°	37.0	44.0	50.3	56.1	61.9	66.5	71.0	73.5	76.0	77.3	77.3
125°	33.6	40.3	46.1	51.5	56.9	61.1	64.8	67.7	70.2	71.0	71.0
127.5°	30.3	36.6	42.0	46.9	51.5	55.7	59.4	62.3	64.4	65.2	65.2
130°	27.4	32.8	37.8	42.8	47.4	50.7	54.4	56.9	58.2	59.4	59.8
132.5°	24.5	29.5	34.1	38.2	42.8	46.1	49.0	51.5	52.8	54.0	54.4
135°	21.6	26.2	30.3	34.5	38.2	41.5	44.0	46.1	47.8	48.6	49.0
137.5°	18.3	23.3	27.0	30.3	34.5	37.0	39.9	41.1	42.8	43.6	43.6
140°	15.4	19.1	23.3	26.6	29.9	32.4	34.9	37.0	38.2	38.6	38.6
142.5°	12.5	15.8	19.1	23.3	26.2	28.2	30.7	32.4	33.2	33.6	34.1
145°	10.0	12.5	15.4	19.1	22.4	24.9	26.2	27.8	28.7	29.1	29.5
147.5°	7.5	10.0	12.5	15.0	18.3	20.8	22.0	23.7	24.5	24.9	24.9
150°	5.8	7.5	9.1	11.6	14.1	17.0	18.7	19.9	20.4	20.8	20.8
152.5°	4.2	5.8	7.1	8.7	10.4	12.9	15.4	16.2	16.6	17.0	17.0
155°	2.9	4.2	5.0	6.2	7.5	9.6	11.6	12.9	13.3	13.7	13.7
157.5°	2.1	2.9	3.3	4.6	5.4	6.2	7.9	10.0	10.4	10.4	10.4
160°	1.2	1.7	2.1	2.9	3.3	4.2	5.0	6.2	7.5	7.5	7.5
162.5°	0.8	1.2	1.2	1.7	1.7	2.5	2.9	3.3	4.6	5.0	5.0
165°	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2	2.1	2.5	2.5
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: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	393.0	393.8	393.4	393.4	393.4	394.2	393.4	389.7	390.5	391.3	392.2
5°	392.6	393.0	393.0	392.6	392.6	393.4	392.6	388.8	389.7	390.5	390.9
7.5°	390.9	391.3	391.3	391.3	390.9	391.7	390.5	387.2	387.2	388.0	388.4
10°	388.8	389.7	389.3	388.8	388.8	388.8	388.0	384.3	384.3	384.7	385.1
12.5°	386.3	386.3	386.3	385.9	385.5	385.5	384.7	380.9	380.5	381.4	380.9
15°	383.0	383.9	383.0	382.6	381.8	381.8	380.5	376.8	376.0	376.4	376.0
17.5°	380.1	380.5	379.7	378.9	378.0	377.6	376.4	372.2	371.0	371.4	370.6
20°	377.2	377.2	376.4	375.5	374.3	373.1	371.4	367.2	365.2	365.2	363.5
22.5°	373.5	373.5	372.6	371.4	370.1	368.5	366.8	362.7	359.3	358.5	357.3
25°	369.3	368.9	368.5	367.2	364.7	363.1	361.4	356.8	353.1	351.4	349.4
27.5°	364.3	364.3	363.1	361.8	359.3	357.3	355.2	351.0	346.0	344.0	341.1
30°	358.9	358.9	357.7	356.0	353.5	351.0	348.5	343.6	338.6	335.7	332.3
32.5°	353.5	353.1	351.9	350.2	347.7	344.0	341.9	336.9	331.1	327.8	323.2
35°	346.9	346.5	345.2	343.1	339.8	336.9	333.6	329.0	322.4	318.2	313.2
37.5°	340.2	339.8	339.0	336.1	332.8	329.4	325.3	320.7	314.5	309.1	304.1
40°	333.6	333.2	331.5	329.4	325.3	321.1	317.0	312.4	305.8	299.5	294.1
42.5°	326.5	326.1	324.0	321.5	317.0	312.8	307.8	302.8	296.2	288.7	283.3
45°	319.5	318.6	316.6	313.6	308.7	304.1	299.1	293.3	286.6	279.6	272.5
47.5°	312.0	310.7	308.7	304.5	300.4	295.4	289.6	283.3	276.7	268.8	261.3
50°	303.7	302.8	300.4	296.6	291.6	286.6	280.0	273.8	265.9	258.4	249.3
52.5°	295.8	294.1	292.0	287.9	282.9	277.5	270.4	263.0	255.1	248.0	238.5
55°	287.5	286.6	283.7	280.4	274.2	267.9	261.3	253.4	244.7	236.4	227.2
57.5°	279.6	277.9	275.4	270.9	265.5	259.2	252.2	243.9	234.3	225.6	215.6
60°	271.7	269.2	266.3	262.1	256.3	249.7	242.2	233.5	223.9	214.4	204.0
62.5°	263.0	260.9	257.6	253.4	247.6	240.5	232.6	223.5	214.4	204.4	193.2
65°	254.2	252.2	248.8	244.7	238.9	231.0	222.7	213.5	203.1	193.6	181.5
67.5°	245.5	243.4	239.7	235.1	229.3	221.8	213.1	203.6	193.2	182.8	170.3
70°	236.8	234.3	231.0	226.0	220.2	212.3	203.6	193.6	183.2	172.0	159.5
72.5°	228.1	226.0	221.8	217.3	211.0	203.1	194.4	184.4	173.6	162.0	149.6
75°	219.3	216.9	213.9	208.5	201.9	194.4	185.3	175.3	163.7	152.5	139.6
77.5°	210.6	208.5	204.8	199.4	193.2	185.3	176.1	166.2	154.5	142.9	129.2
80°	201.9	199.4	196.5	191.5	184.4	176.6	167.0	157.0	145.4	133.4	119.6
82.5°	193.2	190.7	187.4	182.4	175.7	167.8	158.7	147.9	136.3	123.8	110.9
85°	184.4	182.4	178.6	173.6	166.6	158.7	149.6	140.0	127.5	115.1	102.2
87.5°	175.7	173.6	169.9	164.9	158.3	150.4	141.2	131.3	119.2	107.6	93.5
90°	167.4	165.8	162.0	157.0	150.4	142.5	134.2	123.4	111.7	100.1	86.8
92.5°	159.9	158.3	155.0	150.0	144.2	135.4	127.1	116.7	105.1	93.1	80.2
95°	153.3	151.2	147.9	143.3	136.3	128.8	120.5	110.1	98.9	86.8	74.4
97.5°	145.8	143.7	140.4	135.4	129.6	121.7	113.4	103.4	92.2	81.0	68.5
100°	138.3	136.3	132.5	128.4	122.6	114.7	106.8	96.8	86.4	75.6	63.6
102.5°	130.9	128.8	125.5	121.3	115.5	108.4	100.5	91.0	80.6	69.8	58.6
105°	123.8	121.7	118.4	114.2	108.8	101.8	93.5	85.2	75.2	64.8	54.0
107.5°	116.7	114.7	111.7	107.6	102.2	95.5	87.7	78.9	69.8	59.8	49.4
110°	109.7	108.0	104.7	100.9	95.5	88.9	81.8	73.5	64.4	55.3	45.3

TEST NUMBER: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	103.0	101.4	98.0	93.9	89.3	83.1	76.0	68.1	59.4	50.7	41.1
115°	96.4	94.3	91.4	87.7	83.1	77.3	70.6	63.6	54.8	46.5	37.8
117.5°	89.7	88.1	85.2	81.4	77.3	71.5	65.2	58.6	50.3	42.4	34.5
120°	83.1	81.8	78.9	75.6	71.5	66.1	60.2	53.6	46.1	38.6	31.2
122.5°	76.9	75.6	72.7	69.8	65.6	60.7	55.3	49.0	42.4	35.3	28.7
125°	71.0	69.4	66.9	64.0	60.2	55.7	50.3	44.5	38.2	32.0	25.8
127.5°	64.8	63.6	61.9	58.6	54.8	50.7	45.7	40.7	34.9	29.1	23.3
130°	59.8	58.2	56.1	53.6	50.3	46.1	41.5	36.6	31.6	26.2	20.4
132.5°	54.0	52.3	50.7	48.2	45.3	41.5	37.4	32.8	28.2	23.3	18.3
135°	48.6	47.4	45.7	43.2	40.3	37.4	33.2	29.1	24.9	20.4	16.2
137.5°	43.6	42.4	40.7	39.0	36.1	33.2	29.5	25.8	22.0	17.9	14.1
140°	38.6	37.8	36.1	34.5	32.0	29.1	25.8	22.4	19.1	15.4	12.0
142.5°	33.6	32.8	31.6	29.9	27.8	25.3	22.4	19.5	16.2	13.3	10.4
145°	29.1	28.7	27.4	25.8	24.1	21.6	19.1	16.6	13.7	11.2	8.3
147.5°	24.5	24.1	23.3	22.0	20.4	18.3	16.2	13.7	11.6	9.1	6.6
150°	20.4	19.9	19.5	17.9	17.0	15.0	13.3	11.2	9.6	7.1	5.4
152.5°	16.6	16.6	15.8	14.5	13.7	12.0	10.8	9.1	7.5	5.8	4.2
155°	13.3	12.9	12.5	11.6	10.8	9.6	8.3	7.1	5.8	4.2	2.9
157.5°	10.4	10.0	9.6	8.7	7.9	7.5	6.2	5.0	3.7	2.9	2.1
160°	7.5	7.1	6.6	6.2	5.8	5.0	4.2	3.3	2.5	1.7	1.2
162.5°	5.0	4.6	4.6	4.2	3.7	2.9	2.5	2.1	1.7	1.2	0.8
165°	2.5	2.5	2.1	2.1	1.7	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: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	391.7	391.7	393.4	393.0	391.7	394.2	397.1
5°	390.5	390.5	391.7	391.7	390.5	393.0	395.5
7.5°	388.4	388.0	389.3	389.3	387.6	389.7	392.6
10°	384.7	384.3	385.5	385.5	383.9	385.9	388.4
12.5°	380.5	379.7	380.9	380.5	378.9	380.9	383.4
15°	375.1	374.7	375.5	374.7	373.1	375.1	377.6
17.5°	369.7	368.5	368.9	368.9	366.0	368.1	370.1
20°	362.7	361.0	361.4	361.0	358.9	360.2	362.7
22.5°	355.6	353.1	353.1	352.7	350.2	351.9	353.9
25°	346.9	344.0	344.0	343.6	340.6	341.9	344.0
27.5°	338.2	335.2	334.0	333.6	330.7	330.7	333.6
30°	329.0	324.9	324.0	322.8	319.9	319.9	322.4
32.5°	320.3	314.5	312.8	311.2	308.2	307.8	310.7
35°	308.7	304.1	301.2	299.5	296.2	295.4	297.9
37.5°	299.1	293.3	289.1	287.1	283.7	282.5	285.8
40°	288.7	282.5	277.1	275.8	270.9	269.2	272.1
42.5°	277.1	270.4	265.0	262.5	258.8	257.1	257.6
45°	265.5	258.4	252.6	249.3	245.5	242.6	244.3
47.5°	253.4	247.2	240.1	235.1	230.6	228.5	229.3
50°	241.4	233.9	227.2	221.8	216.4	213.9	215.6
52.5°	229.3	221.4	213.9	208.1	201.9	199.4	199.8
55°	217.7	209.4	200.6	194.4	188.6	184.9	184.0
57.5°	206.1	196.9	187.8	180.7	173.2	169.9	168.7
60°	193.6	184.0	174.5	166.2	158.3	154.5	152.9
62.5°	182.0	171.6	160.8	152.0	144.2	139.2	137.9
65°	170.7	158.7	147.9	137.9	129.2	123.8	122.1
67.5°	158.7	146.2	134.6	123.8	115.5	108.4	107.6
70°	147.5	134.2	121.3	110.1	100.9	93.9	90.6
72.5°	136.3	122.6	109.3	97.2	85.6	78.9	76.4
75°	125.5	111.3	97.2	84.7	71.9	64.0	61.5
77.5°	115.5	100.9	86.0	72.3	60.2	50.3	46.9
80°	105.9	91.0	75.2	61.1	48.2	37.4	33.6
82.5°	96.0	81.8	65.6	50.7	37.4	26.2	21.6
85°	87.2	73.1	56.9	42.0	28.7	16.6	11.6
87.5°	80.2	64.8	50.3	35.3	21.6	9.6	3.3
90°	73.1	58.2	43.6	29.1	16.2	5.4	0.4
92.5°	66.9	52.8	38.2	24.9	12.5	3.7	0.4
95°	61.1	47.4	33.6	20.8	10.0	2.5	0.4
97.5°	55.7	42.8	29.9	17.9	8.3	2.1	0.4
100°	51.1	38.6	26.6	15.8	7.1	1.7	0.4
102.5°	46.5	34.9	23.7	13.7	6.2	1.2	0.4
105°	42.8	31.6	21.2	12.5	5.4	1.2	0.4
107.5°	39.0	28.7	19.1	10.8	4.6	0.8	0.4
110°	35.3	26.2	17.0	9.6	4.2	0.8	0.4

TEST NUMBER: P1212971

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	32.4	23.7	15.4	8.7	3.3	0.8	0.4
115°	29.5	21.2	13.7	7.5	2.9	0.4	0.4
117.5°	26.6	19.1	12.0	6.6	2.5	0.4	0.4
120°	24.1	17.0	10.8	5.8	2.1	0.4	0.4
122.5°	21.6	15.4	9.6	5.0	1.7	0.4	0.4
125°	19.5	13.7	8.3	4.2	1.2	0.4	0.4
127.5°	17.4	12.0	7.5	3.7	1.2	0.4	0.4
130°	15.4	10.8	6.2	2.9	0.8	0.4	0.4
132.5°	13.7	9.1	5.4	2.5	0.8	0.4	0.4
135°	12.0	7.9	4.6	1.7	0.8	0.4	0.4
137.5°	10.4	6.6	3.7	1.2	0.4	0.4	0.4
140°	8.7	5.8	2.9	1.2	0.4	0.4	0.4
142.5°	7.5	4.6	2.1	0.8	0.4	0.4	0.4
145°	5.8	3.7	1.7	0.8	0.4	0.4	0.4
147.5°	4.6	2.9	1.2	0.8	0.4	0.4	0.4
150°	3.3	2.1	1.2	0.4	0.4	0.4	0.4
152.5°	2.5	1.7	0.8	0.4	0.4	0.4	0.4
155°	1.7	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)