

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: P1213322

Luminaire Tested: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213322
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-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

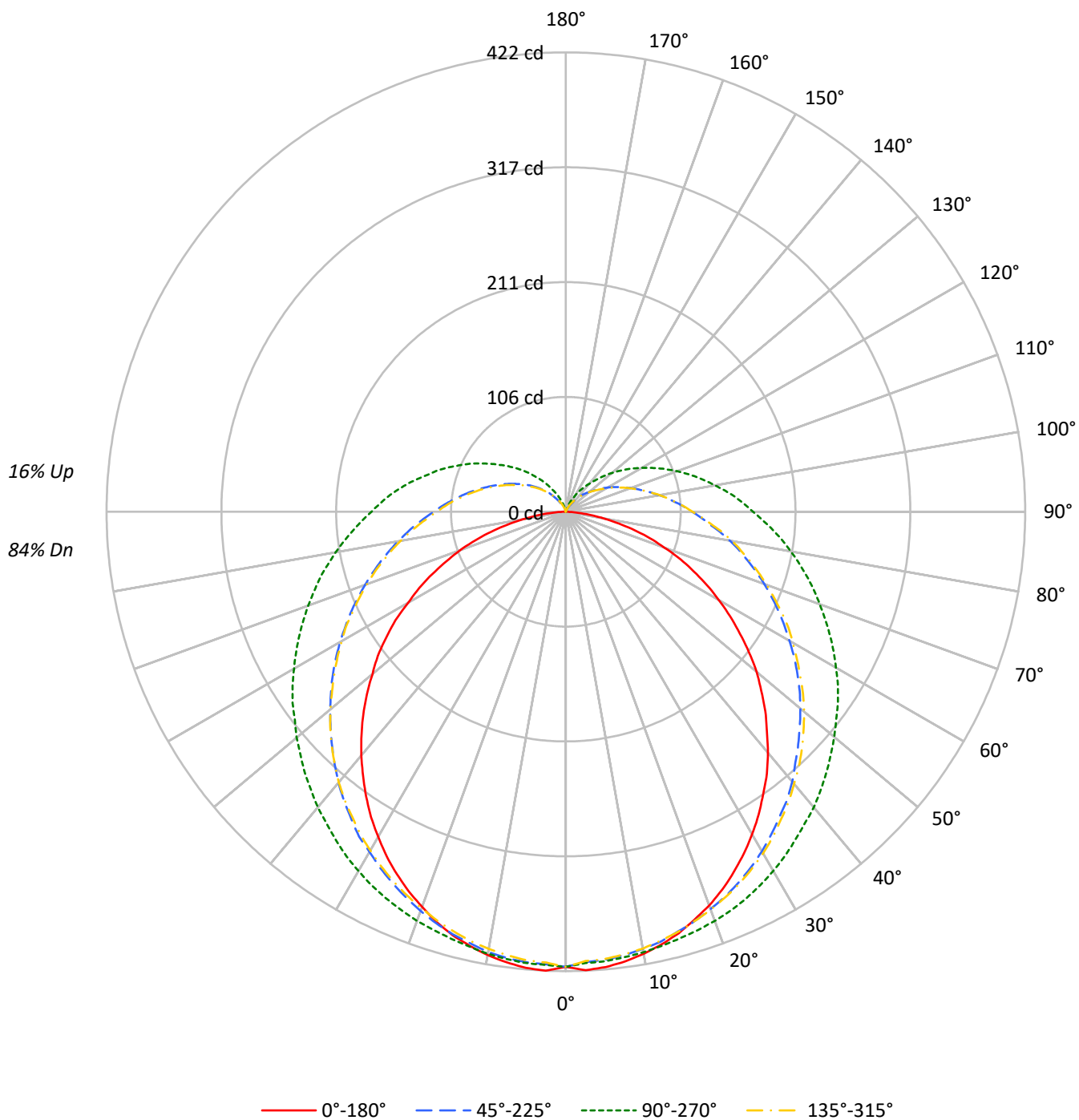
Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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°	6756	6756	6756	6756
5°	6774	6511	6787	6538
10°	6693	6325	6714	6346
15°	6596	6166	6625	6174
20°	6473	6051	6495	6051
25°	6326	5949	6365	5942
30°	6164	5844	6211	5844
35°	5975	5745	6043	5753
40°	5789	5688	5860	5688
45°	5578	5627	5662	5635
50°	5354	5592	5427	5608
55°	5052	5597	5213	5621
60°	4734	5614	4885	5649
65°	4370	5670	4566	5727
70°	3876	5774	4178	5858
75°	3306	5964	3615	6078
80°	2453	6244	2790	6387
85°	1330	6691	1666	6877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 7690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	2.2
10°-20°	113.8	6.3
20°-30°	174.5	9.6
30°-40°	215.3	11.9
40°-50°	233.5	12.9
50°-60°	230.2	12.7
60°-70°	208.1	11.5
70°-80°	173.4	9.5
80°-90°	134.3	7.4
90°-100°	101.8	5.6
100°-110°	75.4	4.2
110°-120°	52.4	2.9
120°-130°	33.4	1.8
130°-140°	18.8	1.0
140°-150°	8.6	0.5
150°-160°	2.7	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	327.9	18.1
0°-40°	543.1	29.9
0°-60°	1006.8	55.4
0°-90°	1522.6	83.8
90°-120°	229.6	12.6
90°-150°	290.4	16.0
90°-180°	293.0	16.1
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	418	418	418	418	418	
5°	420	414	421	416	420	40
15°	401	406	403	406	401	113
25°	365	392	367	392	365	168
35°	316	368	320	368	316	198
45°	259	339	263	339	259	200
55°	195	305	202	306	195	175
65°	130	268	135	270	130	128
75°	65	229	71	234	65	69
85°	12	191	15	196	12	15
90°	0	172	1	179	0	1
95°	0	156	0	164	0	0
105°	0	124	0	131	0	0
115°	0	94	0	103	0	0
125°	0	68	0	75	0	0
135°	0	44	0	52	0	0
145°	0	26	0	31	0	0
155°	0	11	0	15	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: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	421.5	421.5	421.1	420.2	420.6	422.0	421.1	418.9	417.5	414.0	414.9
5°	419.8	419.8	419.3	418.4	418.9	420.6	419.8	418.0	416.2	413.1	414.5
7.5°	416.7	416.7	416.2	415.3	416.2	418.0	417.1	415.3	414.0	410.9	412.3
10°	412.3	412.7	412.3	410.9	412.7	414.5	414.0	411.8	410.5	407.8	409.2
12.5°	407.0	407.4	407.0	406.5	407.4	410.1	409.2	407.4	406.5	404.3	405.6
15°	400.8	401.2	400.4	400.4	401.2	403.9	403.9	402.1	401.2	399.0	401.7
17.5°	392.9	393.3	392.9	392.9	393.7	396.4	396.8	395.9	395.1	394.2	396.8
20°	384.9	384.5	384.5	384.0	385.8	389.8	389.3	389.3	388.4	388.4	391.5
22.5°	375.7	375.7	375.2	375.2	377.4	381.0	381.0	381.8	381.0	382.7	385.4
25°	365.1	365.5	365.1	366.0	367.7	371.7	372.1	373.5	373.9	375.7	378.7
27.5°	354.1	354.5	354.1	354.9	358.0	361.1	363.3	365.1	365.5	368.2	372.1
30°	342.2	342.2	342.6	343.5	347.0	351.9	353.6	355.8	355.8	360.2	364.2
32.5°	329.8	329.8	329.8	331.6	335.5	341.3	343.5	346.1	347.0	351.4	355.8
35°	316.1	316.6	316.6	317.9	323.2	328.9	332.0	335.1	336.9	342.2	346.6
37.5°	303.4	304.2	302.9	304.7	312.2	317.0	320.5	323.6	326.7	333.8	337.3
40°	288.8	289.7	289.2	292.8	298.9	305.1	309.1	312.2	316.6	323.6	327.6
42.5°	273.4	274.3	275.1	279.1	285.7	291.9	296.7	300.7	306.0	312.2	318.8
45°	259.3	259.3	260.6	265.4	272.5	279.1	284.8	289.2	295.4	302.0	308.6
47.5°	243.4	243.8	245.6	251.3	258.8	266.8	272.0	277.8	284.4	291.4	298.9
50°	228.8	228.8	231.5	237.7	244.7	253.5	259.3	265.9	272.9	281.3	288.8
52.5°	212.1	213.0	216.9	222.7	231.9	239.9	246.5	253.5	261.9	270.7	279.1
55°	195.3	197.1	200.2	208.1	217.8	225.3	233.2	242.1	250.0	259.7	269.4
57.5°	179.0	180.3	185.2	193.1	203.3	212.5	220.9	229.3	239.0	248.7	258.8
60°	162.3	164.0	169.8	177.7	188.7	198.4	208.1	216.9	227.1	237.2	247.8
62.5°	146.4	147.7	154.3	163.6	174.6	185.2	194.9	205.5	216.5	226.2	236.8
65°	129.6	131.8	139.3	147.7	160.5	171.1	182.1	193.6	205.0	215.6	225.7
67.5°	114.2	115.5	123.5	133.2	145.9	157.8	169.3	181.7	193.6	204.6	214.7
70°	96.1	100.5	108.5	118.6	132.3	144.6	157.0	169.8	182.5	194.0	203.7
72.5°	81.1	84.7	93.5	104.5	117.7	132.3	145.1	158.7	171.5	183.4	193.6
75°	65.3	68.8	78.9	91.3	104.9	120.4	133.6	147.7	160.9	172.8	183.4
77.5°	49.8	54.2	65.3	78.0	93.0	108.9	122.6	136.7	150.4	163.1	173.7
80°	35.7	40.6	52.5	67.0	81.6	97.4	112.4	126.5	140.2	153.0	164.0
82.5°	22.9	28.2	41.0	55.6	71.0	86.9	102.3	116.4	130.1	142.9	154.3
85°	12.3	18.1	31.3	45.9	61.3	77.2	92.6	107.6	120.8	132.7	145.1
87.5°	3.5	10.6	23.4	37.9	53.8	68.3	83.3	98.3	111.6	124.3	135.4
90°	0.4	6.2	17.6	31.3	46.7	60.8	75.8	89.9	103.2	116.0	127.0
92.5°	0.4	4.0	13.7	26.0	40.1	54.7	69.7	83.3	95.7	108.5	119.5
95°	0.4	3.1	11.0	22.0	35.3	48.9	63.1	76.3	89.1	101.0	112.0
97.5°	0.4	2.2	8.8	19.0	30.9	43.7	57.3	70.5	82.9	94.4	104.5
100°	0.4	1.8	7.1	16.3	26.9	39.2	51.6	64.4	76.3	87.3	97.9
102.5°	0.4	1.3	6.2	13.7	23.8	34.8	46.7	58.6	70.1	80.7	91.3
105°	0.4	1.3	5.3	11.9	21.2	31.3	42.3	53.8	64.4	74.5	84.2
107.5°	0.4	0.9	4.4	10.1	18.5	28.2	38.4	49.4	59.1	68.8	78.0
110°	0.4	0.9	3.5	9.3	16.3	25.1	34.8	45.0	54.2	63.5	72.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.9	3.1	7.9	14.1	22.5	31.3	40.6	49.4	58.6	66.6
115°	0.4	0.9	2.6	7.1	13.2	19.4	28.2	36.6	45.4	53.8	61.3
117.5°	0.4	0.9	2.2	5.7	11.5	17.6	24.7	33.1	41.0	48.9	56.0
120°	0.4	0.9	1.8	5.3	10.1	15.9	22.0	29.5	37.0	44.5	52.0
122.5°	0.4	0.4	1.8	4.4	8.8	14.1	20.3	26.0	33.1	40.1	46.7
125°	0.4	0.4	1.8	4.0	7.5	12.8	18.1	23.4	29.5	35.7	41.4
127.5°	0.4	0.4	1.3	3.1	6.6	11.0	15.9	21.6	26.0	31.7	37.5
130°	0.4	0.4	1.3	2.6	5.7	9.3	14.1	19.0	24.3	28.2	33.1
132.5°	0.4	0.4	1.3	2.2	4.4	7.5	11.9	16.3	21.2	25.6	29.5
135°	0.4	0.4	0.9	1.8	3.5	6.2	9.7	13.7	18.5	22.9	26.9
137.5°	0.4	0.4	0.9	1.8	2.6	5.3	7.5	11.0	15.4	19.4	23.4
140°	0.4	0.4	0.9	1.3	2.2	4.0	6.2	8.8	12.3	15.9	20.3
142.5°	0.4	0.4	0.4	1.3	1.8	3.1	4.9	7.1	9.7	12.8	16.3
145°	0.4	0.4	0.4	1.3	1.8	2.2	4.0	5.7	7.5	9.7	12.8
147.5°	0.4	0.4	0.4	0.9	1.3	1.8	3.1	4.4	5.7	7.5	9.3
150°	0.4	0.4	0.4	0.9	1.3	1.8	2.2	3.1	4.4	6.2	7.5
152.5°	0.4	0.4	0.4	0.9	0.9	1.3	1.8	2.2	3.1	4.4	5.3
155°	0.4	0.4	0.4	0.4	0.9	1.3	1.8	1.8	2.2	3.1	4.0
157.5°	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.8	1.8	2.6
160°	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.3	1.3
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.3
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	414.9	415.3	416.7	416.7	415.8	415.8	415.3	414.9	415.3	416.2	416.2
5°	414.0	414.5	415.8	416.2	415.3	414.9	414.9	414.5	414.9	415.8	415.8
7.5°	412.3	412.7	414.0	414.5	413.6	413.6	413.1	412.7	413.6	414.0	414.0
10°	409.6	410.1	411.8	412.3	411.8	411.4	411.4	410.9	411.4	412.3	412.3
12.5°	406.1	407.0	409.2	409.2	409.2	408.7	408.7	408.3	408.7	409.6	409.2
15°	402.1	403.9	405.6	406.5	406.5	406.5	406.1	405.6	406.5	407.0	406.5
17.5°	397.7	399.9	402.6	403.4	403.4	403.9	403.4	403.0	403.9	403.9	403.4
20°	393.3	395.5	398.1	399.0	399.9	400.4	400.4	399.9	400.4	400.8	400.4
22.5°	387.6	390.2	393.3	394.6	395.5	396.4	396.4	396.4	396.8	397.3	396.4
25°	381.4	384.5	388.0	389.3	391.1	391.5	392.0	392.0	392.4	392.9	391.5
27.5°	374.8	378.3	381.8	384.0	385.4	386.2	386.2	386.7	387.1	387.6	386.2
30°	366.8	372.1	375.2	377.0	378.7	380.1	380.5	381.0	381.4	381.8	380.5
32.5°	359.8	364.2	368.2	370.4	372.6	374.3	374.8	374.8	375.7	375.7	374.3
35°	351.4	356.7	360.7	362.9	365.5	366.8	367.7	367.7	368.6	368.6	367.3
37.5°	343.0	348.3	352.7	355.4	358.5	360.2	360.7	360.7	361.6	361.6	359.8
40°	334.2	339.9	344.8	347.9	350.5	352.7	353.2	354.5	354.5	354.1	352.3
42.5°	325.4	330.7	336.0	339.5	343.0	345.2	346.1	346.6	346.6	346.1	344.8
45°	315.7	321.9	326.7	331.1	334.7	336.9	338.2	338.6	338.6	337.7	336.4
47.5°	306.4	312.6	317.5	322.3	325.8	328.5	329.8	330.2	329.8	329.4	328.0
50°	296.7	303.8	308.6	313.5	317.0	319.2	321.4	321.9	321.4	321.0	318.3
52.5°	286.6	294.1	299.4	304.2	308.2	310.8	312.6	313.1	313.1	312.2	310.4
55°	276.5	283.1	289.7	295.0	299.4	302.0	304.2	305.1	304.2	303.4	301.1
57.5°	267.2	273.4	280.0	285.7	290.1	293.7	295.4	296.3	295.4	294.1	291.9
60°	256.2	262.8	270.3	275.6	280.4	284.0	284.8	286.6	285.7	284.4	282.2
62.5°	245.6	253.5	260.1	266.8	270.7	274.7	276.5	277.3	276.5	275.1	272.9
65°	234.6	243.4	250.0	256.6	261.0	265.0	267.2	267.6	266.8	265.4	263.2
67.5°	224.4	232.8	239.9	246.9	250.9	254.9	257.1	257.9	257.1	255.3	253.1
70°	214.3	222.7	231.0	236.3	241.2	245.6	246.9	248.2	247.4	245.6	242.9
72.5°	204.1	213.0	221.3	226.6	231.9	235.9	237.7	239.0	238.1	236.3	233.2
75°	193.6	202.8	211.2	216.9	222.2	226.2	228.0	229.3	228.4	226.6	223.1
77.5°	183.9	193.1	201.1	207.2	212.5	216.0	219.1	219.6	218.7	216.9	213.4
80°	173.7	183.0	191.4	197.5	202.8	206.3	208.6	209.9	209.0	207.2	203.7
82.5°	164.9	173.3	181.7	187.8	193.1	197.5	199.3	200.6	200.2	197.5	194.9
85°	155.2	164.9	171.5	178.1	183.4	187.8	189.2	190.9	190.5	188.3	184.7
87.5°	145.5	155.2	163.1	169.8	174.6	178.1	180.3	181.2	180.8	178.6	174.6
90°	137.6	146.4	154.3	161.4	165.3	169.3	171.5	172.0	172.0	169.3	166.2
92.5°	130.1	138.4	146.4	153.0	157.8	161.4	163.1	164.0	163.6	161.4	157.8
95°	121.7	131.0	138.4	145.1	149.9	153.4	155.2	156.1	155.6	153.4	149.9
97.5°	114.6	123.0	130.5	136.7	141.5	145.1	146.8	147.7	147.7	145.5	142.0
100°	107.6	116.0	123.0	129.2	133.6	137.1	138.9	139.3	138.9	137.1	133.6
102.5°	100.5	108.5	115.5	121.3	126.1	129.2	131.0	131.4	131.4	129.2	125.7
105°	93.5	101.4	108.0	114.2	118.2	121.3	122.6	123.9	123.5	121.7	118.2
107.5°	86.9	94.8	101.0	106.7	110.7	113.8	115.1	116.4	116.0	114.2	110.7
110°	80.7	88.2	93.9	99.6	103.2	106.3	108.5	108.9	108.0	106.3	103.2

TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	75.0	81.6	87.3	92.6	96.6	98.8	100.5	101.4	100.5	98.8	96.6
115°	68.8	75.4	81.1	86.0	89.5	92.2	93.5	94.4	93.5	91.7	89.5
117.5°	63.1	69.2	75.0	79.8	82.9	85.1	86.4	87.3	86.4	85.1	82.9
120°	58.2	63.5	68.8	73.2	76.7	78.5	79.8	80.7	80.2	78.5	76.3
122.5°	52.5	58.2	63.1	67.5	70.5	72.3	73.2	74.1	73.6	72.3	70.1
125°	47.6	52.5	57.3	61.3	64.4	66.1	67.0	67.9	67.5	66.1	63.5
127.5°	42.3	47.6	51.6	55.6	57.8	60.4	60.8	61.7	61.3	60.0	57.8
130°	38.4	42.3	46.3	49.8	52.5	54.2	55.1	55.6	54.7	53.8	51.6
132.5°	33.5	37.9	41.4	44.5	46.3	48.1	48.9	49.4	49.4	48.1	46.3
135°	30.0	33.1	36.2	39.2	41.0	42.8	43.7	44.1	43.7	42.8	41.0
137.5°	26.9	29.5	31.7	34.4	36.6	37.5	38.4	38.4	37.9	37.5	36.2
140°	23.4	26.5	28.7	30.4	32.2	32.6	33.5	33.5	33.1	32.6	31.7
142.5°	19.8	22.5	24.7	26.9	28.2	29.1	29.5	30.0	29.5	29.1	27.8
145°	15.9	19.0	21.2	22.5	24.3	24.7	25.1	25.6	25.1	24.7	23.4
147.5°	12.3	15.0	17.2	19.0	20.3	20.7	21.2	21.6	21.2	20.3	19.8
150°	8.8	11.0	13.7	15.4	16.3	17.2	17.2	17.2	17.6	16.8	15.9
152.5°	7.1	7.9	9.7	11.5	12.8	13.2	13.7	13.7	13.2	13.2	12.3
155°	4.9	5.7	7.1	8.4	9.7	10.1	10.6	10.6	10.1	10.1	9.7
157.5°	3.1	4.0	4.9	5.7	7.1	7.5	7.9	7.9	7.9	7.5	7.1
160°	1.8	2.2	2.6	3.5	4.4	4.9	5.3	5.3	5.3	5.3	4.9
162.5°	1.3	1.3	1.3	1.8	2.2	2.6	3.1	3.1	3.1	3.1	2.6
165°	0.9	0.9	0.9	0.9	0.9	1.3	1.8	1.8	1.8	1.8	1.8
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

TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	415.8	415.8	416.2	415.3	412.7	413.1	413.1	414.9	415.8	416.2	418.4
5°	414.9	414.9	415.8	414.5	412.3	412.3	412.3	414.0	414.5	415.3	417.1
7.5°	413.6	413.6	414.0	412.7	410.1	410.1	409.6	411.4	412.3	412.7	414.5
10°	411.4	411.4	411.8	410.5	407.4	407.4	407.0	408.3	408.7	409.6	410.9
12.5°	408.3	408.3	408.3	407.0	403.9	403.4	403.0	404.3	404.3	404.8	406.1
15°	405.6	404.8	404.8	403.4	400.4	399.5	398.6	399.0	399.9	399.5	400.4
17.5°	402.6	401.7	400.8	399.5	395.5	394.2	393.3	393.7	393.3	392.9	393.7
20°	399.0	397.7	397.3	395.1	391.1	388.9	387.1	386.2	386.7	385.4	385.8
22.5°	395.1	393.3	392.4	389.8	385.8	383.2	381.0	379.2	378.7	377.0	377.4
25°	390.2	388.0	386.7	384.5	380.1	377.0	374.3	371.7	370.4	368.2	367.7
27.5°	384.5	382.3	380.5	378.3	373.9	369.9	366.8	363.3	361.6	358.9	357.6
30°	378.7	376.1	373.5	371.7	366.8	362.4	357.6	354.5	351.9	348.8	346.6
32.5°	371.7	369.0	366.4	363.8	359.3	354.1	350.1	345.2	342.2	338.6	336.0
35°	364.6	361.1	358.5	354.9	351.0	344.8	339.9	335.1	331.1	327.2	324.1
37.5°	356.7	354.1	350.1	347.0	342.2	336.0	330.7	324.5	321.0	315.7	311.7
40°	349.2	346.1	342.2	338.2	333.3	326.3	320.5	313.5	309.5	303.4	299.4
42.5°	341.7	337.3	333.3	328.9	323.6	317.0	310.0	302.9	297.6	291.9	286.2
45°	333.3	328.5	323.6	318.8	313.5	306.9	299.4	291.9	285.3	280.0	272.9
47.5°	324.5	319.7	313.9	308.6	302.9	296.3	288.4	280.4	273.4	267.2	259.7
50°	315.7	310.8	304.7	298.9	292.3	285.7	277.3	268.1	260.6	252.6	246.0
52.5°	306.4	301.6	295.9	288.4	281.3	274.7	265.9	256.2	247.8	241.2	232.8
55°	297.2	292.3	285.7	278.2	271.2	262.8	254.4	244.7	235.5	227.5	219.1
57.5°	287.5	283.1	275.6	269.4	260.6	251.8	242.9	233.7	223.5	214.3	204.6
60°	277.8	272.9	265.9	258.4	249.6	240.7	231.5	221.3	210.8	200.6	191.8
62.5°	269.0	262.8	256.2	248.2	239.0	230.6	220.0	209.0	198.4	187.8	177.2
65°	258.8	252.2	246.0	238.1	228.4	218.7	208.1	197.1	185.6	174.2	163.6
67.5°	248.7	242.1	235.5	227.5	217.4	207.2	196.2	185.2	172.4	161.4	149.0
70°	238.5	233.2	224.9	216.5	207.2	196.2	185.2	173.3	160.1	148.1	135.4
72.5°	228.4	223.1	214.7	205.9	197.1	185.6	173.7	161.8	149.5	135.8	122.1
75°	218.7	212.1	204.6	196.2	186.9	175.0	163.1	150.8	136.2	123.5	109.3
77.5°	209.4	203.3	195.8	186.5	176.4	164.9	152.6	139.8	125.2	111.6	96.1
80°	199.3	193.1	185.6	176.4	166.2	155.2	142.0	128.7	114.6	99.6	83.8
82.5°	189.6	183.9	175.5	167.1	156.1	145.1	131.8	118.6	103.6	89.1	73.6
85°	179.5	173.7	165.8	157.0	146.4	134.5	122.1	108.9	93.9	78.9	63.5
87.5°	170.6	164.0	156.1	147.3	136.7	125.2	113.3	99.2	84.7	70.1	54.2
90°	161.4	155.2	147.3	138.4	127.9	116.4	104.1	90.8	76.7	61.7	46.7
92.5°	153.4	146.8	139.3	130.5	119.9	108.9	96.6	83.3	69.7	55.1	40.6
95°	145.5	138.9	131.8	123.0	112.4	101.4	89.1	76.3	63.1	48.9	35.3
97.5°	136.7	131.0	123.9	115.5	104.9	94.4	82.5	70.1	57.3	43.7	30.9
100°	129.6	123.0	116.4	107.6	97.9	87.7	75.8	63.9	51.6	38.8	26.9
102.5°	121.7	115.5	108.9	100.5	90.8	80.7	69.7	58.2	46.7	34.8	23.4
105°	114.2	108.5	101.4	93.5	84.2	74.5	63.9	53.4	42.3	30.9	20.7
107.5°	106.7	101.0	94.4	86.9	78.0	68.3	58.6	48.1	37.9	27.8	18.5
110°	99.2	93.9	87.7	80.2	71.9	63.1	53.8	44.1	34.0	24.7	16.3

TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	92.6	87.3	81.1	74.1	66.1	57.8	48.9	39.7	30.4	22.0	14.1
115°	86.0	81.1	75.0	68.8	60.8	52.9	44.5	35.7	27.3	19.8	12.3
117.5°	79.4	74.5	68.8	62.6	55.6	48.1	40.1	31.7	24.7	17.6	11.0
120°	72.8	68.3	63.1	57.3	51.1	43.7	35.7	28.7	22.0	15.4	9.7
122.5°	66.6	62.6	57.8	52.5	45.9	38.8	32.2	26.0	19.8	13.7	7.9
125°	60.8	56.9	52.5	47.2	41.0	34.8	29.1	23.4	17.2	11.9	6.6
127.5°	55.1	51.1	46.7	41.9	37.0	31.3	26.0	20.7	15.4	10.6	5.7
130°	49.4	45.9	41.9	37.9	33.1	27.8	23.4	18.1	13.2	8.4	4.9
132.5°	43.7	41.0	37.5	33.5	29.1	25.1	20.3	15.9	11.5	7.5	4.4
135°	38.8	36.2	33.1	29.5	26.0	22.0	17.6	13.7	9.7	6.2	3.5
137.5°	34.4	32.2	29.1	26.0	22.9	19.0	15.4	11.5	7.9	5.3	2.6
140°	30.4	28.2	25.6	22.5	19.8	16.3	12.8	9.3	7.1	4.4	2.2
142.5°	26.5	24.3	22.0	19.4	16.8	13.7	10.6	7.9	5.7	3.5	2.2
145°	22.5	20.7	18.5	16.3	13.7	11.0	8.8	6.6	4.4	2.6	1.8
147.5°	18.5	17.2	15.0	13.2	11.0	8.8	7.1	5.3	3.5	2.2	1.3
150°	15.0	13.7	11.9	10.1	8.8	7.1	5.7	4.0	2.6	2.2	1.3
152.5°	11.5	10.6	9.3	8.4	7.1	5.3	4.0	3.1	2.2	1.8	0.9
155°	9.3	8.4	7.5	6.2	5.3	4.0	3.1	2.2	1.8	1.3	0.9
157.5°	6.6	6.2	5.3	4.4	3.5	2.6	2.2	2.2	1.3	0.9	0.4
160°	4.4	4.0	3.5	2.6	2.2	2.2	1.8	1.3	0.9	0.9	0.4
162.5°	2.6	2.2	2.2	2.2	1.8	1.8	1.3	0.9	0.9	0.4	0.4
165°	1.8	1.8	1.8	1.3	1.3	1.3	0.9	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: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	418.4	417.1	418.9	422.0	422.4	422.0	421.1	422.4	424.2	423.7	420.6
5°	417.5	415.8	417.5	420.6	420.6	420.2	419.8	421.1	422.8	422.4	419.8
7.5°	414.9	413.1	414.9	417.5	418.0	417.1	417.1	418.4	420.2	419.8	417.5
10°	411.4	409.6	410.5	413.6	414.5	413.6	413.6	414.9	417.1	416.7	414.0
12.5°	406.1	404.8	405.6	408.3	409.2	408.7	408.3	410.1	412.3	412.3	409.6
15°	400.4	398.6	399.5	402.6	403.0	402.1	402.6	403.9	406.5	406.5	404.3
17.5°	393.7	391.5	392.9	395.1	395.5	395.5	395.5	397.3	400.4	399.9	398.1
20°	386.2	383.2	384.0	386.2	387.1	387.1	387.1	390.2	392.4	392.4	390.7
22.5°	377.4	375.2	375.2	377.4	378.7	378.3	378.3	381.0	384.0	383.6	383.6
25°	367.3	365.5	364.6	367.3	367.7	368.2	369.0	371.7	375.2	375.2	375.7
27.5°	356.7	354.9	354.5	356.7	357.1	357.6	358.5	361.6	365.1	365.5	366.4
30°	346.6	343.9	343.0	344.8	345.7	346.1	346.1	351.0	354.1	355.4	357.1
32.5°	334.7	332.0	329.8	332.9	333.3	334.2	334.7	339.5	343.0	345.2	347.9
35°	322.8	318.3	317.5	319.7	320.5	321.0	321.9	327.2	332.0	333.8	337.3
37.5°	309.5	306.4	303.8	306.0	306.9	307.3	310.0	314.8	319.7	322.3	325.8
40°	297.2	293.2	291.0	292.3	293.2	293.7	296.7	302.0	307.8	310.8	315.3
42.5°	283.5	278.2	276.5	277.8	278.2	279.5	282.2	289.2	295.0	299.4	302.9
45°	269.8	265.9	261.9	263.2	263.7	264.6	268.5	276.0	282.2	287.5	291.4
47.5°	255.7	250.9	246.9	247.8	249.6	250.0	254.4	263.2	269.0	274.7	280.0
50°	241.6	235.0	231.9	231.9	232.8	235.0	240.7	249.6	255.7	262.3	268.1
52.5°	227.1	220.9	217.4	217.8	218.7	221.3	226.6	235.5	242.5	249.6	256.6
55°	212.5	205.9	202.4	201.5	202.4	205.9	212.1	221.3	228.4	236.8	244.3
57.5°	198.0	190.0	186.9	185.6	186.5	190.9	197.1	206.8	215.6	223.5	232.4
60°	182.1	175.9	170.6	167.5	169.8	175.5	182.1	192.2	201.5	210.3	220.0
62.5°	168.4	160.5	154.8	151.7	153.9	158.7	168.0	177.7	187.8	198.0	207.7
65°	153.0	145.1	138.4	135.4	137.6	143.3	152.6	163.1	174.2	184.3	195.8
67.5°	138.0	129.6	121.7	118.6	121.3	127.4	137.6	149.5	161.4	172.0	184.3
70°	123.5	114.2	105.8	103.6	105.4	113.8	123.5	135.4	147.7	160.1	172.8
72.5°	110.2	98.8	89.9	87.3	89.5	98.8	109.8	122.1	135.4	148.6	162.3
75°	94.8	84.2	74.5	71.4	74.1	82.5	96.1	109.3	123.5	137.6	150.4
77.5°	82.5	70.1	60.0	55.1	59.5	70.1	83.3	97.4	112.0	126.5	141.1
80°	69.7	56.9	45.9	40.6	45.4	56.9	70.1	85.5	101.9	116.4	129.6
82.5°	58.2	44.5	33.1	27.3	32.6	45.4	60.0	75.4	91.3	105.8	121.3
85°	47.6	33.5	21.6	15.4	22.9	34.4	49.8	65.7	82.0	97.0	112.0
87.5°	38.8	25.1	13.2	6.6	14.1	26.9	41.4	57.3	73.6	88.6	102.7
90°	31.7	18.1	7.1	0.9	8.4	20.3	34.4	49.8	65.3	80.7	94.8
92.5°	26.0	13.7	4.0	0.4	5.3	16.3	29.5	44.1	59.1	74.1	87.7
95°	21.6	10.6	2.6	0.4	4.0	12.8	25.1	39.2	53.4	67.9	81.6
97.5°	18.5	8.8	2.2	0.4	3.1	11.0	21.6	34.8	48.5	62.2	75.4
100°	15.9	7.1	1.8	0.4	2.6	9.3	19.0	30.9	43.7	56.9	69.7
102.5°	13.7	5.7	1.3	0.4	2.2	7.9	16.8	27.8	39.2	52.0	64.4
105°	11.9	4.9	1.3	0.4	1.8	7.1	15.0	24.7	36.2	47.6	59.5
107.5°	10.1	4.0	0.9	0.4	1.3	5.7	13.2	22.5	32.6	43.7	54.7
110°	8.8	3.5	0.9	0.4	1.3	5.3	11.5	20.3	29.5	39.7	50.3

TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.5	2.6	0.9	0.4	0.9	4.4	10.1	18.1	26.9	36.2	46.3
115°	6.6	2.2	0.4	0.4	0.9	4.0	9.3	16.3	24.3	33.1	42.3
117.5°	5.3	1.8	0.4	0.4	0.4	3.1	7.9	14.6	22.0	30.4	38.8
120°	4.4	1.8	0.4	0.4	0.4	2.6	7.1	12.8	19.8	27.3	35.3
122.5°	4.0	1.3	0.4	0.4	0.4	2.2	6.2	11.5	17.6	24.7	32.2
125°	3.5	1.3	0.4	0.4	0.4	1.8	5.3	10.1	15.9	22.0	29.1
127.5°	2.6	1.3	0.4	0.4	0.4	1.3	4.9	8.8	14.1	19.8	26.0
130°	2.2	0.9	0.4	0.4	0.4	1.3	4.0	7.9	12.3	17.6	23.4
132.5°	1.8	0.9	0.4	0.4	0.4	0.9	3.1	6.2	10.6	15.4	20.7
135°	1.8	0.9	0.4	0.4	0.4	0.9	2.2	5.3	8.8	13.2	17.6
137.5°	1.8	0.4	0.4	0.4	0.4	0.9	1.8	4.0	7.1	10.6	14.6
140°	1.3	0.4	0.4	0.4	0.4	0.4	1.3	3.1	5.7	8.8	12.3
142.5°	1.3	0.4	0.4	0.4	0.4	0.4	1.3	2.2	4.4	7.1	9.7
145°	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.8	3.5	5.3	7.9
147.5°	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.6	4.4	6.2
150°	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.8	3.1	4.9
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	2.2	3.1
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.8	2.2
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.8
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
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: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	419.3	416.2	417.1	416.7	417.5	418.9	418.9	418.4	418.4	417.5	416.7
5°	418.4	415.3	416.7	416.2	417.1	418.4	418.4	418.0	418.0	416.7	416.2
7.5°	415.8	413.6	414.5	414.5	415.3	416.7	416.7	416.2	416.2	414.9	414.5
10°	413.1	410.5	411.8	411.8	412.7	414.5	414.5	414.0	414.0	412.7	412.3
12.5°	408.7	406.1	408.3	408.7	409.6	411.4	410.9	410.9	410.9	409.6	409.2
15°	403.4	401.7	403.9	404.3	405.6	407.8	407.8	407.8	407.8	406.5	406.1
17.5°	397.7	396.4	398.6	399.5	401.2	403.4	403.4	403.9	404.3	403.4	403.0
20°	391.1	390.2	392.4	394.2	396.8	399.0	399.9	400.4	401.2	400.4	399.9
22.5°	383.6	383.6	386.7	388.4	391.5	393.7	395.1	396.4	397.3	396.4	395.9
25°	375.2	376.5	379.6	382.7	386.2	388.4	389.8	391.5	392.4	392.0	391.5
27.5°	367.3	369.0	373.0	376.1	379.2	382.7	384.0	386.2	387.1	387.1	386.7
30°	358.0	360.7	365.1	368.6	372.6	376.1	377.9	380.1	381.4	380.5	381.0
32.5°	349.2	353.6	357.1	361.1	365.5	369.0	371.3	373.9	375.2	374.8	375.2
35°	339.5	343.9	348.8	352.7	358.0	361.6	364.6	366.8	368.6	368.2	368.2
37.5°	328.9	334.7	339.5	344.8	349.6	353.6	356.7	359.3	361.1	361.1	361.1
40°	318.8	325.0	329.8	336.0	342.2	345.7	349.2	351.9	353.6	354.1	354.5
42.5°	307.8	314.4	320.1	326.7	332.9	337.3	341.3	344.4	346.1	347.0	346.6
45°	297.6	303.8	310.4	317.9	323.6	328.0	332.9	336.4	338.2	338.6	339.1
47.5°	286.2	293.2	300.7	308.2	313.9	319.7	324.1	327.6	329.4	330.7	330.7
50°	275.1	282.6	291.0	298.9	305.1	310.8	315.3	319.2	321.4	322.3	322.8
52.5°	265.0	272.0	280.9	288.8	295.0	300.7	306.4	310.8	313.1	313.9	313.9
55°	252.6	261.5	271.2	278.7	285.3	291.9	297.6	302.0	304.2	305.6	306.4
57.5°	241.2	250.4	260.6	268.5	276.5	282.6	287.9	293.7	295.4	297.2	297.6
60°	230.2	239.4	249.1	257.9	265.9	272.5	278.7	283.5	286.6	287.5	288.4
62.5°	218.7	228.4	238.5	247.4	255.7	263.7	269.4	273.8	277.3	278.7	279.5
65°	207.7	217.8	228.0	237.2	246.0	254.0	259.7	264.1	267.6	269.8	270.3
67.5°	195.8	206.8	217.4	227.1	235.9	244.3	250.0	254.4	257.9	260.6	261.0
70°	184.7	196.2	206.8	217.4	226.2	234.6	240.7	245.2	249.1	250.9	251.8
72.5°	174.2	186.1	197.1	207.7	216.5	224.9	231.5	235.9	239.9	242.1	242.5
75°	164.0	175.9	187.8	198.0	207.2	215.6	222.2	227.1	230.6	232.8	233.7
77.5°	153.9	166.2	178.1	188.3	198.0	206.3	212.1	217.8	221.3	224.0	224.0
80°	143.7	156.5	168.9	179.0	188.7	196.2	202.8	208.6	212.1	214.7	214.7
82.5°	134.9	147.3	159.2	169.3	179.0	187.4	194.0	199.3	203.3	205.0	205.5
85°	124.8	138.4	149.5	160.5	169.8	177.7	184.3	190.0	193.6	195.3	196.2
87.5°	116.4	129.6	141.5	151.2	160.5	168.4	175.9	180.8	184.3	186.5	187.4
90°	108.5	121.3	133.2	142.9	152.6	160.1	167.1	172.0	175.9	177.7	178.6
92.5°	101.4	114.2	125.7	135.4	144.6	153.0	159.6	164.5	168.0	169.8	171.1
95°	94.8	107.1	118.2	128.7	137.6	145.1	152.1	157.0	160.9	162.3	163.6
97.5°	88.2	100.1	111.1	121.3	130.5	137.6	144.2	149.0	152.1	154.3	155.6
100°	82.5	93.9	104.5	114.2	123.0	129.6	136.7	141.1	144.2	145.9	147.7
102.5°	76.3	87.7	97.9	107.1	116.4	122.6	129.2	133.6	136.2	139.3	139.3
105°	71.0	81.6	91.7	100.5	108.5	116.0	121.7	126.1	129.2	131.4	131.4
107.5°	65.3	75.8	85.5	94.8	102.3	109.3	114.6	118.6	122.1	123.5	124.8
110°	60.8	70.1	79.8	88.6	95.7	102.3	107.6	112.0	115.1	116.4	117.3

TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	55.6	65.3	74.1	82.5	89.5	95.7	101.0	104.5	107.6	109.3	109.8
115°	51.1	60.4	68.3	76.3	83.8	89.1	93.9	97.4	100.5	101.9	102.7
117.5°	47.2	55.6	63.5	70.1	77.2	82.9	87.7	90.8	93.5	95.2	96.1
120°	43.2	51.1	58.2	64.8	71.4	76.7	81.1	84.2	87.3	88.6	88.6
122.5°	39.2	46.7	53.4	59.5	65.7	70.5	75.4	78.0	80.7	82.0	82.0
125°	35.7	42.8	48.9	54.7	60.4	64.8	68.8	71.9	74.5	75.4	75.4
127.5°	32.2	38.8	44.5	49.8	54.7	59.1	63.1	66.1	68.3	69.2	69.2
130°	29.1	34.8	40.1	45.4	50.3	53.8	57.8	60.4	61.7	63.1	63.5
132.5°	26.0	31.3	36.2	40.6	45.4	48.9	52.0	54.7	56.0	57.3	57.8
135°	22.9	27.8	32.2	36.6	40.6	44.1	46.7	48.9	50.7	51.6	52.0
137.5°	19.4	24.7	28.7	32.2	36.6	39.2	42.3	43.7	45.4	46.3	46.3
140°	16.3	20.3	24.7	28.2	31.7	34.4	37.0	39.2	40.6	41.0	41.0
142.5°	13.2	16.8	20.3	24.7	27.8	30.0	32.6	34.4	35.3	35.7	36.2
145°	10.6	13.2	16.3	20.3	23.8	26.5	27.8	29.5	30.4	30.9	31.3
147.5°	7.9	10.6	13.2	15.9	19.4	22.0	23.4	25.1	26.0	26.5	26.5
150°	6.2	7.9	9.7	12.3	15.0	18.1	19.8	21.2	21.6	22.0	22.0
152.5°	4.4	6.2	7.5	9.3	11.0	13.7	16.3	17.2	17.6	18.1	18.1
155°	3.1	4.4	5.3	6.6	7.9	10.1	12.3	13.7	14.1	14.6	14.6
157.5°	2.2	3.1	3.5	4.9	5.7	6.6	8.4	10.6	11.0	11.0	11.0
160°	1.3	1.8	2.2	3.1	3.5	4.4	5.3	6.6	7.9	7.9	7.9
162.5°	0.9	1.3	1.3	1.8	1.8	2.6	3.1	3.5	4.9	5.3	5.3
165°	0.4	0.9	0.9	0.9	0.9	0.9	1.3	1.3	2.2	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: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	417.1	418.0	417.5	417.5	417.5	418.4	417.5	413.6	414.5	415.3	416.2
5°	416.7	417.1	417.1	416.7	416.7	417.5	416.7	412.7	413.6	414.5	414.9
7.5°	414.9	415.3	415.3	415.3	414.9	415.8	414.5	410.9	410.9	411.8	412.3
10°	412.7	413.6	413.1	412.7	412.7	412.7	411.8	407.8	407.8	408.3	408.7
12.5°	410.1	410.1	410.1	409.6	409.2	409.2	408.3	404.3	403.9	404.8	404.3
15°	406.5	407.4	406.5	406.1	405.2	405.2	403.9	399.9	399.0	399.5	399.0
17.5°	403.4	403.9	403.0	402.1	401.2	400.8	399.5	395.1	393.7	394.2	393.3
20°	400.4	400.4	399.5	398.6	397.3	395.9	394.2	389.8	387.6	387.6	385.8
22.5°	396.4	396.4	395.5	394.2	392.9	391.1	389.3	384.9	381.4	380.5	379.2
25°	392.0	391.5	391.1	389.8	387.1	385.4	383.6	378.7	374.8	373.0	370.8
27.5°	386.7	386.7	385.4	384.0	381.4	379.2	377.0	372.6	367.3	365.1	362.0
30°	381.0	381.0	379.6	377.9	375.2	372.6	369.9	364.6	359.3	356.3	352.7
32.5°	375.2	374.8	373.5	371.7	369.0	365.1	362.9	357.6	351.4	347.9	343.0
35°	368.2	367.7	366.4	364.2	360.7	357.6	354.1	349.2	342.2	337.7	332.5
37.5°	361.1	360.7	359.8	356.7	353.2	349.6	345.2	340.4	333.8	328.0	322.8
40°	354.1	353.6	351.9	349.6	345.2	340.8	336.4	331.6	324.5	317.9	312.2
42.5°	346.6	346.1	343.9	341.3	336.4	332.0	326.7	321.4	314.4	306.4	300.7
45°	339.1	338.2	336.0	332.9	327.6	322.8	317.5	311.3	304.2	296.7	289.2
47.5°	331.1	329.8	327.6	323.2	318.8	313.5	307.3	300.7	293.7	285.3	277.3
50°	322.3	321.4	318.8	314.8	309.5	304.2	297.2	290.6	282.2	274.3	264.6
52.5°	313.9	312.2	310.0	305.6	300.3	294.5	287.0	279.1	270.7	263.2	253.1
55°	305.1	304.2	301.1	297.6	291.0	284.4	277.3	269.0	259.7	250.9	241.2
57.5°	296.7	295.0	292.3	287.5	281.7	275.1	267.6	258.8	248.7	239.4	228.8
60°	288.4	285.7	282.6	278.2	272.0	265.0	257.1	247.8	237.7	227.5	216.5
62.5°	279.1	276.9	273.4	269.0	262.8	255.3	246.9	237.2	227.5	216.9	205.0
65°	269.8	267.6	264.1	259.7	253.5	245.2	236.3	226.6	215.6	205.5	192.7
67.5°	260.6	258.4	254.4	249.6	243.4	235.5	226.2	216.0	205.0	194.0	180.8
70°	251.3	248.7	245.2	239.9	233.7	225.3	216.0	205.5	194.4	182.5	169.3
72.5°	242.1	239.9	235.5	230.6	224.0	215.6	206.3	195.8	184.3	172.0	158.7
75°	232.8	230.2	227.1	221.3	214.3	206.3	196.6	186.1	173.7	161.8	148.1
77.5°	223.5	221.3	217.4	211.6	205.0	196.6	186.9	176.4	164.0	151.7	137.1
80°	214.3	211.6	208.6	203.3	195.8	187.4	177.2	166.7	154.3	141.5	127.0
82.5°	205.0	202.4	198.9	193.6	186.5	178.1	168.4	157.0	144.6	131.4	117.7
85°	195.8	193.6	189.6	184.3	176.8	168.4	158.7	148.6	135.4	122.1	108.5
87.5°	186.5	184.3	180.3	175.0	168.0	159.6	149.9	139.3	126.5	114.2	99.2
90°	177.7	175.9	172.0	166.7	159.6	151.2	142.4	131.0	118.6	106.3	92.2
92.5°	169.8	168.0	164.5	159.2	153.0	143.7	134.9	123.9	111.6	98.8	85.1
95°	162.7	160.5	157.0	152.1	144.6	136.7	127.9	116.8	104.9	92.2	78.9
97.5°	154.8	152.6	149.0	143.7	137.6	129.2	120.4	109.8	97.9	86.0	72.8
100°	146.8	144.6	140.7	136.2	130.1	121.7	113.3	102.7	91.7	80.2	67.5
102.5°	138.9	136.7	133.2	128.7	122.6	115.1	106.7	96.6	85.5	74.1	62.2
105°	131.4	129.2	125.7	121.3	115.5	108.0	99.2	90.4	79.8	68.8	57.3
107.5°	123.9	121.7	118.6	114.2	108.5	101.4	93.0	83.8	74.1	63.5	52.5
110°	116.4	114.6	111.1	107.1	101.4	94.4	86.9	78.0	68.3	58.6	48.1

TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	109.3	107.6	104.1	99.6	94.8	88.2	80.7	72.3	63.1	53.8	43.7
115°	102.3	100.1	97.0	93.0	88.2	82.0	75.0	67.5	58.2	49.4	40.1
117.5°	95.2	93.5	90.4	86.4	82.0	75.8	69.2	62.2	53.4	45.0	36.6
120°	88.2	86.9	83.8	80.2	75.8	70.1	63.9	56.9	48.9	41.0	33.1
122.5°	81.6	80.2	77.2	74.1	69.7	64.4	58.6	52.0	45.0	37.5	30.4
125°	75.4	73.6	71.0	67.9	63.9	59.1	53.4	47.2	40.6	34.0	27.3
127.5°	68.8	67.5	65.7	62.2	58.2	53.8	48.5	43.2	37.0	30.9	24.7
130°	63.5	61.7	59.5	56.9	53.4	48.9	44.1	38.8	33.5	27.8	21.6
132.5°	57.3	55.6	53.8	51.1	48.1	44.1	39.7	34.8	30.0	24.7	19.4
135°	51.6	50.3	48.5	45.9	42.8	39.7	35.3	30.9	26.5	21.6	17.2
137.5°	46.3	45.0	43.2	41.4	38.4	35.3	31.3	27.3	23.4	19.0	15.0
140°	41.0	40.1	38.4	36.6	34.0	30.9	27.3	23.8	20.3	16.3	12.8
142.5°	35.7	34.8	33.5	31.7	29.5	26.9	23.8	20.7	17.2	14.1	11.0
145°	30.9	30.4	29.1	27.3	25.6	22.9	20.3	17.6	14.6	11.9	8.8
147.5°	26.0	25.6	24.7	23.4	21.6	19.4	17.2	14.6	12.3	9.7	7.1
150°	21.6	21.2	20.7	19.0	18.1	15.9	14.1	11.9	10.1	7.5	5.7
152.5°	17.6	17.6	16.8	15.4	14.6	12.8	11.5	9.7	7.9	6.2	4.4
155°	14.1	13.7	13.2	12.3	11.5	10.1	8.8	7.5	6.2	4.4	3.1
157.5°	11.0	10.6	10.1	9.3	8.4	7.9	6.6	5.3	4.0	3.1	2.2
160°	7.9	7.5	7.1	6.6	6.2	5.3	4.4	3.5	2.6	1.8	1.3
162.5°	5.3	4.9	4.9	4.4	4.0	3.1	2.6	2.2	1.8	1.3	0.9
165°	2.6	2.6	2.2	2.2	1.8	1.3	1.3	1.3	0.9	0.9	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: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	415.8	415.8	417.5	417.1	415.8	418.4	421.5
5°	414.5	414.5	415.8	415.8	414.5	417.1	419.8
7.5°	412.3	411.8	413.1	413.1	411.4	413.6	416.7
10°	408.3	407.8	409.2	409.2	407.4	409.6	412.3
12.5°	403.9	403.0	404.3	403.9	402.1	404.3	407.0
15°	398.1	397.7	398.6	397.7	395.9	398.1	400.8
17.5°	392.4	391.1	391.5	391.5	388.4	390.7	392.9
20°	384.9	383.2	383.6	383.2	381.0	382.3	384.9
22.5°	377.4	374.8	374.8	374.3	371.7	373.5	375.7
25°	368.2	365.1	365.1	364.6	361.6	362.9	365.1
27.5°	358.9	355.8	354.5	354.1	351.0	351.0	354.1
30°	349.2	344.8	343.9	342.6	339.5	339.5	342.2
32.5°	339.9	333.8	332.0	330.2	327.2	326.7	329.8
35°	327.6	322.8	319.7	317.9	314.4	313.5	316.1
37.5°	317.5	311.3	306.9	304.7	301.1	299.8	303.4
40°	306.4	299.8	294.1	292.8	287.5	285.7	288.8
42.5°	294.1	287.0	281.3	278.7	274.7	272.9	273.4
45°	281.7	274.3	268.1	264.6	260.6	257.5	259.3
47.5°	269.0	262.3	254.9	249.6	244.7	242.5	243.4
50°	256.2	248.2	241.2	235.5	229.7	227.1	228.8
52.5°	243.4	235.0	227.1	220.9	214.3	211.6	212.1
55°	231.0	222.2	213.0	206.3	200.2	196.2	195.3
57.5°	218.7	209.0	199.3	191.8	183.9	180.3	179.0
60°	205.5	195.3	185.2	176.4	168.0	164.0	162.3
62.5°	193.1	182.1	170.6	161.4	153.0	147.7	146.4
65°	181.2	168.4	157.0	146.4	137.1	131.4	129.6
67.5°	168.4	155.2	142.9	131.4	122.6	115.1	114.2
70°	156.5	142.4	128.7	116.8	107.1	99.6	96.1
72.5°	144.6	130.1	116.0	103.2	90.8	83.8	81.1
75°	133.2	118.2	103.2	89.9	76.3	67.9	65.3
77.5°	122.6	107.1	91.3	76.7	63.9	53.4	49.8
80°	112.4	96.6	79.8	64.8	51.1	39.7	35.7
82.5°	101.9	86.9	69.7	53.8	39.7	27.8	22.9
85°	92.6	77.6	60.4	44.5	30.4	17.6	12.3
87.5°	85.1	68.8	53.4	37.5	22.9	10.1	3.5
90°	77.6	61.7	46.3	30.9	17.2	5.7	0.4
92.5°	71.0	56.0	40.6	26.5	13.2	4.0	0.4
95°	64.8	50.3	35.7	22.0	10.6	2.6	0.4
97.5°	59.1	45.4	31.7	19.0	8.8	2.2	0.4
100°	54.2	41.0	28.2	16.8	7.5	1.8	0.4
102.5°	49.4	37.0	25.1	14.6	6.6	1.3	0.4
105°	45.4	33.5	22.5	13.2	5.7	1.3	0.4
107.5°	41.4	30.4	20.3	11.5	4.9	0.9	0.4
110°	37.5	27.8	18.1	10.1	4.4	0.9	0.4



TEST NUMBER: P1213322

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	34.4	25.1	16.3	9.3	3.5	0.9	0.4
115°	31.3	22.5	14.6	7.9	3.1	0.4	0.4
117.5°	28.2	20.3	12.8	7.1	2.6	0.4	0.4
120°	25.6	18.1	11.5	6.2	2.2	0.4	0.4
122.5°	22.9	16.3	10.1	5.3	1.8	0.4	0.4
125°	20.7	14.6	8.8	4.4	1.3	0.4	0.4
127.5°	18.5	12.8	7.9	4.0	1.3	0.4	0.4
130°	16.3	11.5	6.6	3.1	0.9	0.4	0.4
132.5°	14.6	9.7	5.7	2.6	0.9	0.4	0.4
135°	12.8	8.4	4.9	1.8	0.9	0.4	0.4
137.5°	11.0	7.1	4.0	1.3	0.4	0.4	0.4
140°	9.3	6.2	3.1	1.3	0.4	0.4	0.4
142.5°	7.9	4.9	2.2	0.9	0.4	0.4	0.4
145°	6.2	4.0	1.8	0.9	0.4	0.4	0.4
147.5°	4.9	3.1	1.3	0.9	0.4	0.4	0.4
150°	3.5	2.2	1.3	0.4	0.4	0.4	0.4
152.5°	2.6	1.8	0.9	0.4	0.4	0.4	0.4
155°	1.8	1.3	0.9	0.4	0.4	0.4	0.4
157.5°	1.3	0.9	0.4	0.4	0.4	0.4	0.4
160°	0.9	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)