

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: P1213385

Luminaire Tested: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213385
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: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

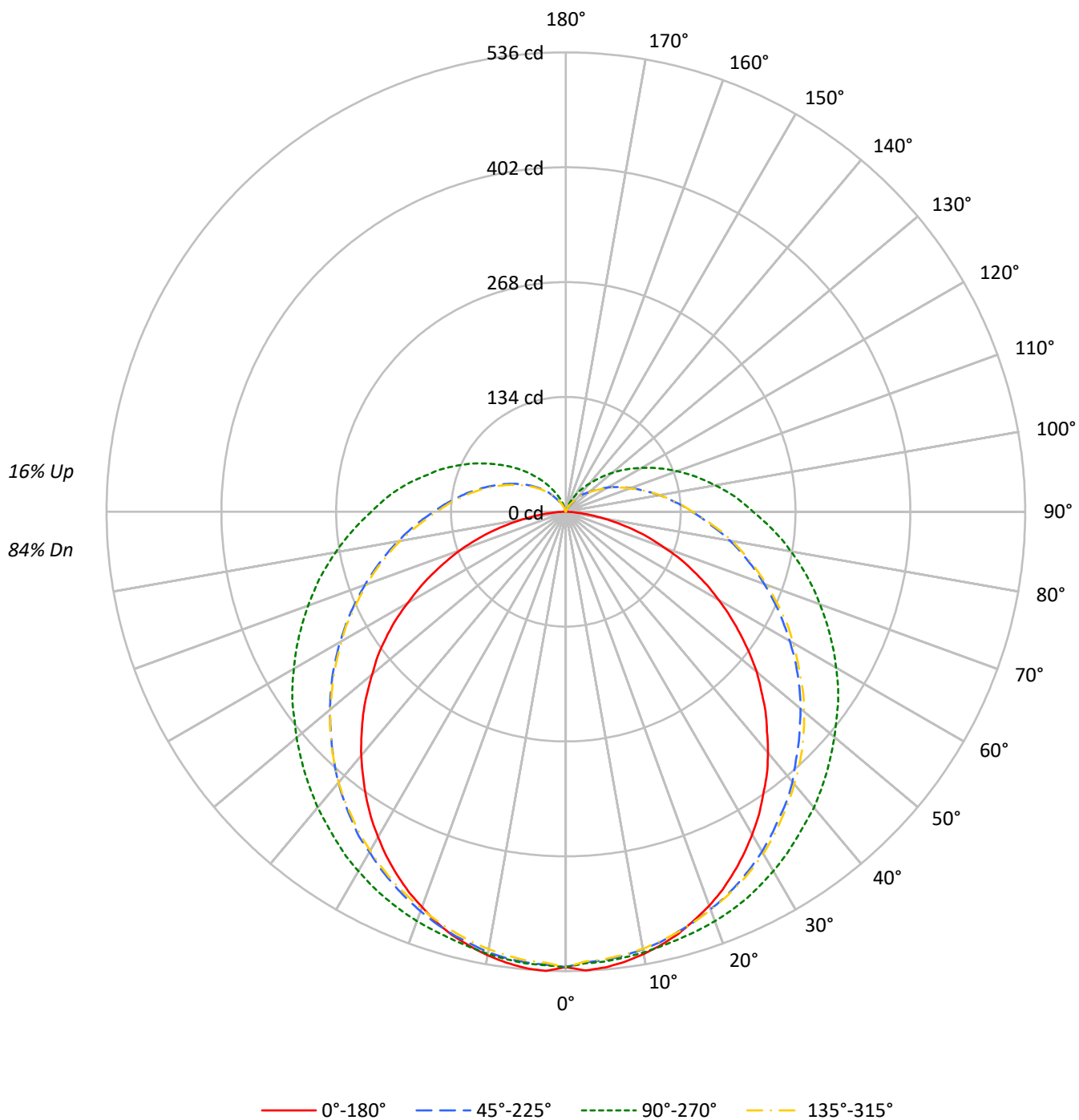
Lumens per Lamp: N/A
Luminaire Lumens: 2308.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 21
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	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°	4293	4293	4293	4293
5°	4316	4137	4325	4155
10°	4275	4020	4289	4032
15°	4226	3919	4245	3923
20°	4160	3846	4174	3846
25°	4078	3780	4102	3776
30°	3985	3713	4016	3713
35°	3879	3651	3922	3655
40°	3773	3614	3819	3614
45°	3652	3576	3707	3580
50°	3525	3553	3573	3563
55°	3347	3557	3454	3572
60°	3161	3567	3264	3590
65°	2951	3603	3082	3639
70°	2659	3670	2866	3722
75°	2318	3789	2539	3862
80°	1795	3967	2040	4059
85°	1073	4252	1339	4371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 4887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	2.2
10°-20°	144.6	6.3
20°-30°	221.8	9.6
30°-40°	273.6	11.9
40°-50°	296.8	12.9
50°-60°	292.5	12.7
60°-70°	264.5	11.5
70°-80°	220.3	9.5
80°-90°	170.7	7.4
90°-100°	129.4	5.6
100°-110°	95.8	4.2
110°-120°	66.6	2.9
120°-130°	42.5	1.8
130°-140°	23.9	1.0
140°-150°	10.9	0.5
150°-160°	3.4	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	416.7	18.1
0°-40°	690.3	29.9
0°-60°	1279.6	55.4
0°-90°	1935.1	83.8
90°-120°	291.8	12.6
90°-150°	369.1	16.0
90°-180°	373.0	16.2
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	531	531	531	531	531	
5°	534	527	535	529	534	51
15°	509	516	512	516	509	144
25°	464	498	467	498	464	214
35°	402	467	406	468	402	252
45°	330	430	334	431	330	254
55°	248	388	256	390	248	222
65°	165	340	172	344	165	163
75°	83	291	91	297	83	88
85°	16	243	20	249	16	19
90°	1	218	1	227	1	1
95°	1	198	1	208	1	0
105°	1	158	1	167	1	1
115°	1	120	1	131	1	1
125°	1	86	1	96	1	1
135°	1	56	1	66	1	0
145°	1	32	1	40	1	0
155°	1	13	1	18	1	0
165°	1	2	1	3	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	535.7	535.7	535.2	534.0	534.6	536.3	535.2	532.4	530.7	526.2	527.3
5°	533.5	533.5	532.9	531.8	532.4	534.6	533.5	531.2	529.0	525.1	526.8
7.5°	529.6	529.6	529.0	527.9	529.0	531.2	530.1	527.9	526.2	522.3	523.9
10°	523.9	524.5	523.9	522.3	524.5	526.8	526.2	523.4	521.7	518.3	520.0
12.5°	517.2	517.8	517.2	516.7	517.8	521.1	520.0	517.8	516.7	513.9	515.5
15°	509.4	509.9	508.8	508.8	509.9	513.3	513.3	511.1	509.9	507.1	510.5
17.5°	499.3	499.9	499.3	499.3	500.4	503.8	504.3	503.2	502.1	501.0	504.3
20°	489.2	488.6	488.6	488.1	490.3	495.4	494.8	494.8	493.7	493.7	497.6
22.5°	477.4	477.4	476.9	476.9	479.7	484.2	484.2	485.3	484.2	486.4	489.8
25°	464.0	464.5	464.0	465.1	467.4	472.4	473.0	474.6	475.2	477.4	481.4
27.5°	450.0	450.5	450.0	451.1	455.0	458.9	461.7	464.0	464.5	467.9	473.0
30°	434.8	434.8	435.4	436.5	441.0	447.2	449.4	452.2	452.2	457.8	462.9
32.5°	419.2	419.2	419.2	421.4	426.4	433.7	436.5	439.9	441.0	446.6	452.2
35°	401.8	402.3	402.3	404.0	410.8	418.0	422.0	425.9	428.1	434.8	440.5
37.5°	385.5	386.7	385.0	387.2	396.7	402.9	407.4	411.3	415.2	424.2	428.7
40°	367.0	368.2	367.6	372.1	379.9	387.8	392.8	396.7	402.3	411.3	416.4
42.5°	347.4	348.6	349.7	354.7	363.1	371.0	377.1	382.2	388.9	396.7	405.1
45°	329.5	329.5	331.2	337.3	346.3	354.7	362.0	367.6	375.5	383.9	392.3
47.5°	309.3	309.9	312.1	319.4	328.9	339.0	345.8	353.0	361.4	370.4	379.9
50°	290.8	290.8	294.2	302.0	311.0	322.2	329.5	337.9	346.9	357.5	367.0
52.5°	269.5	270.7	275.7	283.0	294.8	304.8	313.2	322.2	332.9	344.1	354.7
55°	248.2	250.5	254.4	264.5	276.8	286.4	296.4	307.6	317.7	330.1	342.4
57.5°	227.5	229.2	235.4	245.4	258.3	270.1	280.7	291.4	303.7	316.1	328.9
60°	206.2	208.5	215.7	225.8	239.8	252.2	264.5	275.7	288.6	301.5	314.9
62.5°	186.0	187.7	196.1	207.9	221.9	235.4	247.7	261.1	275.1	287.5	300.9
65°	164.7	167.6	177.1	187.7	204.0	217.4	231.4	246.0	260.6	274.0	286.9
67.5°	145.1	146.8	156.9	169.2	185.5	200.6	215.2	230.9	246.0	260.0	272.9
70°	122.2	127.8	137.9	150.7	168.1	183.8	199.5	215.7	232.0	246.6	258.9
72.5°	103.1	107.6	118.8	132.8	149.6	168.1	184.4	201.7	218.0	233.1	246.0
75°	82.9	87.4	100.3	116.0	133.4	153.0	169.8	187.7	204.5	219.7	233.1
77.5°	63.3	68.9	82.9	99.2	118.2	138.4	155.8	173.7	191.1	207.3	220.8
80°	45.4	51.6	66.7	85.2	103.7	123.8	142.9	160.8	178.2	194.4	208.5
82.5°	29.1	35.9	52.1	70.6	90.2	110.4	130.0	147.9	165.3	181.6	196.1
85°	15.7	23.0	39.8	58.3	77.9	98.1	117.7	136.7	153.5	168.7	184.4
87.5°	4.5	13.4	29.7	48.2	68.4	86.9	105.9	125.0	141.8	158.0	172.0
90°	0.6	7.8	22.4	39.8	59.4	77.3	96.4	114.3	131.1	147.4	161.4
92.5°	0.6	5.0	17.4	33.1	51.0	69.5	88.5	105.9	121.6	137.9	151.9
95°	0.6	3.9	14.0	28.0	44.8	62.2	80.1	96.9	113.2	128.3	142.3
97.5°	0.6	2.8	11.2	24.1	39.2	55.5	72.8	89.7	105.4	119.9	132.8
100°	0.6	2.2	9.0	20.7	34.2	49.9	65.6	81.8	96.9	111.0	124.4
102.5°	0.6	1.7	7.8	17.4	30.3	44.3	59.4	74.5	89.1	102.5	116.0
105°	0.6	1.7	6.7	15.1	26.9	39.8	53.8	68.4	81.8	94.7	107.0
107.5°	0.6	1.1	5.6	12.9	23.5	35.9	48.8	62.8	75.1	87.4	99.2
110°	0.6	1.1	4.5	11.8	20.7	31.9	44.3	57.2	68.9	80.7	91.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.1	3.9	10.1	17.9	28.6	39.8	51.6	62.8	74.5	84.6
115°	0.6	1.1	3.4	9.0	16.8	24.7	35.9	46.5	57.7	68.4	77.9
117.5°	0.6	1.1	2.8	7.3	14.6	22.4	31.4	42.0	52.1	62.2	71.2
120°	0.6	1.1	2.2	6.7	12.9	20.2	28.0	37.5	47.1	56.6	66.1
122.5°	0.6	0.6	2.2	5.6	11.2	17.9	25.8	33.1	42.0	51.0	59.4
125°	0.6	0.6	2.2	5.0	9.5	16.3	23.0	29.7	37.5	45.4	52.7
127.5°	0.6	0.6	1.7	3.9	8.4	14.0	20.2	27.5	33.1	40.3	47.6
130°	0.6	0.6	1.7	3.4	7.3	11.8	17.9	24.1	30.8	35.9	42.0
132.5°	0.6	0.6	1.7	2.8	5.6	9.5	15.1	20.7	26.9	32.5	37.5
135°	0.6	0.6	1.1	2.2	4.5	7.8	12.3	17.4	23.5	29.1	34.2
137.5°	0.6	0.6	1.1	2.2	3.4	6.7	9.5	14.0	19.6	24.7	29.7
140°	0.6	0.6	1.1	1.7	2.8	5.0	7.8	11.2	15.7	20.2	25.8
142.5°	0.6	0.6	0.6	1.7	2.2	3.9	6.2	9.0	12.3	16.3	20.7
145°	0.6	0.6	0.6	1.7	2.2	2.8	5.0	7.3	9.5	12.3	16.3
147.5°	0.6	0.6	0.6	1.1	1.7	2.2	3.9	5.6	7.3	9.5	11.8
150°	0.6	0.6	0.6	1.1	1.7	2.2	2.8	3.9	5.6	7.8	9.5
152.5°	0.6	0.6	0.6	1.1	1.1	1.7	2.2	2.8	3.9	5.6	6.7
155°	0.6	0.6	0.6	0.6	1.1	1.7	2.2	2.2	2.8	3.9	5.0
157.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.7	1.7	2.2	2.2	3.4
160°	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	1.7	1.7	1.7
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.7	1.7
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1
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°	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	527.3	527.9	529.6	529.6	528.4	528.4	527.9	527.3	527.9	529.0	529.0
5°	526.2	526.8	528.4	529.0	527.9	527.3	527.3	526.8	527.3	528.4	528.4
7.5°	523.9	524.5	526.2	526.8	525.6	525.6	525.1	524.5	525.6	526.2	526.2
10°	520.6	521.1	523.4	523.9	523.4	522.8	522.8	522.3	522.8	523.9	523.9
12.5°	516.1	517.2	520.0	520.0	520.0	519.5	519.5	518.9	519.5	520.6	520.0
15°	511.1	513.3	515.5	516.7	516.7	516.7	516.1	515.5	516.7	517.2	516.7
17.5°	505.5	508.3	511.6	512.7	512.7	513.3	512.7	512.2	513.3	513.3	512.7
20°	499.9	502.7	506.0	507.1	508.3	508.8	508.8	508.3	508.8	509.4	508.8
22.5°	492.6	495.9	499.9	501.5	502.7	503.8	503.8	503.8	504.3	504.9	503.8
25°	484.7	488.6	493.1	494.8	497.1	497.6	498.2	498.2	498.7	499.3	497.6
27.5°	476.3	480.8	485.3	488.1	489.8	490.9	490.9	491.4	492.0	492.6	490.9
30°	466.2	473.0	476.9	479.1	481.4	483.0	483.6	484.2	484.7	485.3	483.6
32.5°	457.3	462.9	467.9	470.7	473.5	475.8	476.3	476.3	477.4	477.4	475.8
35°	446.6	453.3	458.4	461.2	464.5	466.2	467.4	467.4	468.5	468.5	466.8
37.5°	436.0	442.7	448.3	451.7	455.6	457.8	458.4	458.4	459.5	459.5	457.3
40°	424.8	432.0	438.2	442.1	445.5	448.3	448.9	450.5	450.5	450.0	447.7
42.5°	413.6	420.3	427.0	431.5	436.0	438.8	439.9	440.5	440.5	439.9	438.2
45°	401.2	409.1	415.2	420.8	425.3	428.1	429.8	430.4	430.4	429.2	427.6
47.5°	389.5	397.3	403.5	409.6	414.1	417.5	419.2	419.7	419.2	418.6	416.9
50°	377.1	386.1	392.3	398.4	402.9	405.7	408.5	409.1	408.5	408.0	404.6
52.5°	364.2	373.8	380.5	386.7	391.7	395.1	397.3	397.9	397.9	396.7	394.5
55°	351.4	359.8	368.2	374.9	380.5	383.9	386.7	387.8	386.7	385.5	382.7
57.5°	339.6	347.4	355.8	363.1	368.7	373.2	375.5	376.6	375.5	373.8	371.0
60°	325.6	334.0	343.5	350.2	356.4	360.9	362.0	364.2	363.1	361.4	358.6
62.5°	312.1	322.2	330.6	339.0	344.1	349.1	351.4	352.5	351.4	349.7	346.9
65°	298.1	309.3	317.7	326.1	331.7	336.8	339.6	340.1	339.0	337.3	334.5
67.5°	285.2	295.9	304.8	313.8	318.9	323.9	326.7	327.8	326.7	324.5	321.7
70°	272.3	283.0	293.6	300.4	306.5	312.1	313.8	315.5	314.4	312.1	308.8
72.5°	259.5	270.7	281.3	288.0	294.8	299.8	302.0	303.7	302.6	300.4	296.4
75°	246.0	257.8	268.4	275.7	282.4	287.5	289.7	291.4	290.3	288.0	283.5
77.5°	233.7	245.4	255.5	263.4	270.1	274.6	278.5	279.1	277.9	275.7	271.2
80°	220.8	232.6	243.2	251.0	257.8	262.3	265.1	266.7	265.6	263.4	258.9
82.5°	209.6	220.2	230.9	238.7	245.4	251.0	253.3	255.0	254.4	251.0	247.7
85°	197.3	209.6	218.0	226.4	233.1	238.7	240.4	242.6	242.1	239.3	234.8
87.5°	184.9	197.3	207.3	215.7	221.9	226.4	229.2	230.3	229.8	227.0	221.9
90°	174.8	186.0	196.1	205.1	210.1	215.2	218.0	218.5	218.5	215.2	211.3
92.5°	165.3	176.0	186.0	194.4	200.6	205.1	207.3	208.5	207.9	205.1	200.6
95°	154.7	166.4	176.0	184.4	190.5	195.0	197.3	198.4	197.8	195.0	190.5
97.5°	145.7	156.3	165.9	173.7	179.9	184.4	186.6	187.7	187.7	184.9	180.4
100°	136.7	147.4	156.3	164.2	169.8	174.3	176.5	177.1	176.5	174.3	169.8
102.5°	127.8	137.9	146.8	154.1	160.3	164.2	166.4	167.0	167.0	164.2	159.7
105°	118.8	128.9	137.3	145.1	150.2	154.1	155.8	157.5	156.9	154.7	150.2
107.5°	110.4	120.5	128.3	135.6	140.7	144.6	146.3	147.9	147.4	145.1	140.7
110°	102.5	112.1	119.4	126.6	131.1	135.0	137.9	138.4	137.3	135.0	131.1

TEST NUMBER: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	95.3	103.7	111.0	117.7	122.7	125.5	127.8	128.9	127.8	125.5	122.7
115°	87.4	95.8	103.1	109.3	113.8	117.1	118.8	119.9	118.8	116.6	113.8
117.5°	80.1	88.0	95.3	101.4	105.4	108.2	109.8	111.0	109.8	108.2	105.4
120°	74.0	80.7	87.4	93.0	97.5	99.7	101.4	102.5	102.0	99.7	96.9
122.5°	66.7	74.0	80.1	85.7	89.7	91.9	93.0	94.1	93.6	91.9	89.1
125°	60.5	66.7	72.8	77.9	81.8	84.1	85.2	86.3	85.7	84.1	80.7
127.5°	53.8	60.5	65.6	70.6	73.4	76.8	77.3	78.5	77.9	76.2	73.4
130°	48.8	53.8	58.8	63.3	66.7	68.9	70.0	70.6	69.5	68.4	65.6
132.5°	42.6	48.2	52.7	56.6	58.8	61.1	62.2	62.8	62.8	61.1	58.8
135°	38.1	42.0	46.0	49.9	52.1	54.4	55.5	56.0	55.5	54.4	52.1
137.5°	34.2	37.5	40.3	43.7	46.5	47.6	48.8	48.8	48.2	47.6	46.0
140°	29.7	33.6	36.4	38.7	40.9	41.5	42.6	42.6	42.0	41.5	40.3
142.5°	25.2	28.6	31.4	34.2	35.9	37.0	37.5	38.1	37.5	37.0	35.3
145°	20.2	24.1	26.9	28.6	30.8	31.4	31.9	32.5	31.9	31.4	29.7
147.5°	15.7	19.1	21.9	24.1	25.8	26.3	26.9	27.5	26.9	25.8	25.2
150°	11.2	14.0	17.4	19.6	20.7	21.9	21.9	21.9	22.4	21.3	20.2
152.5°	9.0	10.1	12.3	14.6	16.3	16.8	17.4	17.4	16.8	16.8	15.7
155°	6.2	7.3	9.0	10.6	12.3	12.9	13.4	13.4	12.9	12.9	12.3
157.5°	3.9	5.0	6.2	7.3	9.0	9.5	10.1	10.1	10.1	9.5	9.0
160°	2.2	2.8	3.4	4.5	5.6	6.2	6.7	6.7	6.7	6.7	6.2
162.5°	1.7	1.7	1.7	2.2	2.8	3.4	3.9	3.9	3.9	3.9	3.4
165°	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.2	2.2	2.2	2.2
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: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	528.4	528.4	529.0	527.9	524.5	525.1	525.1	527.3	528.4	529.0	531.8
5°	527.3	527.3	528.4	526.8	523.9	523.9	523.9	526.2	526.8	527.9	530.1
7.5°	525.6	525.6	526.2	524.5	521.1	521.1	520.6	522.8	523.9	524.5	526.8
10°	522.8	522.8	523.4	521.7	517.8	517.8	517.2	518.9	519.5	520.6	522.3
12.5°	518.9	518.9	518.9	517.2	513.3	512.7	512.2	513.9	513.9	514.4	516.1
15°	515.5	514.4	514.4	512.7	508.8	507.7	506.6	507.1	508.3	507.7	508.8
17.5°	511.6	510.5	509.4	507.7	502.7	501.0	499.9	500.4	499.9	499.3	500.4
20°	507.1	505.5	504.9	502.1	497.1	494.2	492.0	490.9	491.4	489.8	490.3
22.5°	502.1	499.9	498.7	495.4	490.3	487.0	484.2	481.9	481.4	479.1	479.7
25°	495.9	493.1	491.4	488.6	483.0	479.1	475.8	472.4	470.7	467.9	467.4
27.5°	488.6	485.8	483.6	480.8	475.2	470.2	466.2	461.7	459.5	456.1	454.5
30°	481.4	478.0	474.6	472.4	466.2	460.6	454.5	450.5	447.2	443.3	440.5
32.5°	472.4	469.0	465.7	462.3	456.7	450.0	444.9	438.8	434.8	430.4	427.0
35°	463.4	458.9	455.6	451.1	446.1	438.2	432.0	425.9	420.8	415.8	411.9
37.5°	453.3	450.0	444.9	441.0	434.8	427.0	420.3	412.4	408.0	401.2	396.2
40°	443.8	439.9	434.8	429.8	423.6	414.7	407.4	398.4	393.4	385.5	380.5
42.5°	434.3	428.7	423.6	418.0	411.3	402.9	393.9	385.0	378.3	371.0	363.7
45°	423.6	417.5	411.3	405.1	398.4	390.0	380.5	371.0	362.6	355.8	346.9
47.5°	412.4	406.3	399.0	392.3	385.0	376.6	366.5	356.4	347.4	339.6	330.1
50°	401.2	395.1	387.2	379.9	371.5	363.1	352.5	340.7	331.2	321.1	312.7
52.5°	389.5	383.3	376.0	366.5	357.5	349.1	337.9	325.6	314.9	306.5	295.9
55°	377.7	371.5	363.1	353.6	344.6	334.0	323.3	311.0	299.2	289.2	278.5
57.5°	365.4	359.8	350.2	342.4	331.2	320.0	308.8	297.0	284.1	272.3	260.0
60°	353.0	346.9	337.9	328.4	317.2	306.0	294.2	281.3	267.9	255.0	243.8
62.5°	341.8	334.0	325.6	315.5	303.7	293.1	279.6	265.6	252.2	238.7	225.3
65°	328.9	320.5	312.7	302.6	290.3	277.9	264.5	250.5	235.9	221.3	207.9
67.5°	316.1	307.6	299.2	289.2	276.3	263.4	249.4	235.4	219.1	205.1	189.4
70°	303.2	296.4	285.8	275.1	263.4	249.4	235.4	220.2	203.4	188.3	172.0
72.5°	290.3	283.5	272.9	261.7	250.5	235.9	220.8	205.7	190.0	172.6	155.2
75°	277.9	269.5	260.0	249.4	237.6	222.5	207.3	191.6	173.2	156.9	139.0
77.5°	266.2	258.3	248.8	237.0	224.1	209.6	193.9	177.6	159.1	141.8	122.2
80°	253.3	245.4	235.9	224.1	211.3	197.3	180.4	163.6	145.7	126.6	106.5
82.5°	241.0	233.7	223.0	212.4	198.4	184.4	167.6	150.7	131.7	113.2	93.6
85°	228.1	220.8	210.7	199.5	186.0	170.9	155.2	138.4	119.4	100.3	80.7
87.5°	216.9	208.5	198.4	187.2	173.7	159.1	144.0	126.1	107.6	89.1	68.9
90°	205.1	197.3	187.2	176.0	162.5	147.9	132.2	115.4	97.5	78.5	59.4
92.5°	195.0	186.6	177.1	165.9	152.4	138.4	122.7	105.9	88.5	70.0	51.6
95°	184.9	176.5	167.6	156.3	142.9	128.9	113.2	96.9	80.1	62.2	44.8
97.5°	173.7	166.4	157.5	146.8	133.4	119.9	104.8	89.1	72.8	55.5	39.2
100°	164.7	156.3	147.9	136.7	124.4	111.5	96.4	81.3	65.6	49.3	34.2
102.5°	154.7	146.8	138.4	127.8	115.4	102.5	88.5	74.0	59.4	44.3	29.7
105°	145.1	137.9	128.9	118.8	107.0	94.7	81.3	67.8	53.8	39.2	26.3
107.5°	135.6	128.3	119.9	110.4	99.2	86.9	74.5	61.1	48.2	35.3	23.5
110°	126.1	119.4	111.5	102.0	91.3	80.1	68.4	56.0	43.1	31.4	20.7

TEST NUMBER: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.7	111.0	103.1	94.1	84.1	73.4	62.2	50.4	38.7	28.0	17.9
115°	109.3	103.1	95.3	87.4	77.3	67.2	56.6	45.4	34.7	25.2	15.7
117.5°	100.9	94.7	87.4	79.6	70.6	61.1	51.0	40.3	31.4	22.4	14.0
120°	92.5	86.9	80.1	72.8	65.0	55.5	45.4	36.4	28.0	19.6	12.3
122.5°	84.6	79.6	73.4	66.7	58.3	49.3	40.9	33.1	25.2	17.4	10.1
125°	77.3	72.3	66.7	60.0	52.1	44.3	37.0	29.7	21.9	15.1	8.4
127.5°	70.0	65.0	59.4	53.2	47.1	39.8	33.1	26.3	19.6	13.4	7.3
130°	62.8	58.3	53.2	48.2	42.0	35.3	29.7	23.0	16.8	10.6	6.2
132.5°	55.5	52.1	47.6	42.6	37.0	31.9	25.8	20.2	14.6	9.5	5.6
135°	49.3	46.0	42.0	37.5	33.1	28.0	22.4	17.4	12.3	7.8	4.5
137.5°	43.7	40.9	37.0	33.1	29.1	24.1	19.6	14.6	10.1	6.7	3.4
140°	38.7	35.9	32.5	28.6	25.2	20.7	16.3	11.8	9.0	5.6	2.8
142.5°	33.6	30.8	28.0	24.7	21.3	17.4	13.4	10.1	7.3	4.5	2.8
145°	28.6	26.3	23.5	20.7	17.4	14.0	11.2	8.4	5.6	3.4	2.2
147.5°	23.5	21.9	19.1	16.8	14.0	11.2	9.0	6.7	4.5	2.8	1.7
150°	19.1	17.4	15.1	12.9	11.2	9.0	7.3	5.0	3.4	2.8	1.7
152.5°	14.6	13.4	11.8	10.6	9.0	6.7	5.0	3.9	2.8	2.2	1.1
155°	11.8	10.6	9.5	7.8	6.7	5.0	3.9	2.8	2.2	1.7	1.1
157.5°	8.4	7.8	6.7	5.6	4.5	3.4	2.8	2.8	1.7	1.1	0.6
160°	5.6	5.0	4.5	3.4	2.8	2.8	2.2	1.7	1.1	1.1	0.6
162.5°	3.4	2.8	2.8	2.8	2.2	2.2	1.7	1.1	1.1	0.6	0.6
165°	2.2	2.2	2.2	1.7	1.7	1.7	1.1	0.6	0.6	0.6	0.6
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: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	531.8	530.1	532.4	536.3	536.8	536.3	535.2	536.8	539.1	538.5	534.6
5°	530.7	528.4	530.7	534.6	534.6	534.0	533.5	535.2	537.4	536.8	533.5
7.5°	527.3	525.1	527.3	530.7	531.2	530.1	530.1	531.8	534.0	533.5	530.7
10°	522.8	520.6	521.7	525.6	526.8	525.6	525.6	527.3	530.1	529.6	526.2
12.5°	516.1	514.4	515.5	518.9	520.0	519.5	518.9	521.1	523.9	523.9	520.6
15°	508.8	506.6	507.7	511.6	512.2	511.1	511.6	513.3	516.7	516.7	513.9
17.5°	500.4	497.6	499.3	502.1	502.7	502.7	502.7	504.9	508.8	508.3	506.0
20°	490.9	487.0	488.1	490.9	492.0	492.0	492.0	495.9	498.7	498.7	496.5
22.5°	479.7	476.9	476.9	479.7	481.4	480.8	480.8	484.2	488.1	487.5	487.5
25°	466.8	464.5	463.4	466.8	467.4	467.9	469.0	472.4	476.9	476.9	477.4
27.5°	453.3	451.1	450.5	453.3	453.9	454.5	455.6	459.5	464.0	464.5	465.7
30°	440.5	437.1	436.0	438.2	439.3	439.9	439.9	446.1	450.0	451.7	453.9
32.5°	425.3	422.0	419.2	423.1	423.6	424.8	425.3	431.5	436.0	438.8	442.1
35°	410.2	404.6	403.5	406.3	407.4	408.0	409.1	415.8	422.0	424.2	428.7
37.5°	393.4	389.5	386.1	388.9	390.0	390.6	393.9	400.1	406.3	409.6	414.1
40°	377.7	372.6	369.8	371.5	372.6	373.2	377.1	383.9	391.1	395.1	400.7
42.5°	360.3	353.6	351.4	353.0	353.6	355.3	358.6	367.6	374.9	380.5	385.0
45°	342.9	337.9	332.9	334.5	335.1	336.2	341.3	350.8	358.6	365.4	370.4
47.5°	325.0	318.9	313.8	314.9	317.2	317.7	323.3	334.5	341.8	349.1	355.8
50°	307.1	298.7	294.8	294.8	295.9	298.7	306.0	317.2	325.0	333.4	340.7
52.5°	288.6	280.7	276.3	276.8	277.9	281.3	288.0	299.2	308.2	317.2	326.1
55°	270.1	261.7	257.2	256.1	257.2	261.7	269.5	281.3	290.3	300.9	310.4
57.5°	251.6	241.5	237.6	235.9	237.0	242.6	250.5	262.8	274.0	284.1	295.3
60°	231.4	223.6	216.9	212.9	215.7	223.0	231.4	244.3	256.1	267.3	279.6
62.5°	214.1	204.0	196.7	192.8	195.6	201.7	213.5	225.8	238.7	251.6	263.9
65°	194.4	184.4	176.0	172.0	174.8	182.1	193.9	207.3	221.3	234.2	248.8
67.5°	175.4	164.7	154.7	150.7	154.1	161.9	174.8	190.0	205.1	218.5	234.2
70°	156.9	145.1	134.5	131.7	133.9	144.6	156.9	172.0	187.7	203.4	219.7
72.5°	140.1	125.5	114.3	111.0	113.8	125.5	139.5	155.2	172.0	188.8	206.2
75°	120.5	107.0	94.7	90.8	94.1	104.8	122.2	139.0	156.9	174.8	191.1
77.5°	104.8	89.1	76.2	70.0	75.7	89.1	105.9	123.8	142.3	160.8	179.3
80°	88.5	72.3	58.3	51.6	57.7	72.3	89.1	108.7	129.4	147.9	164.7
82.5°	74.0	56.6	42.0	34.7	41.5	57.7	76.2	95.8	116.0	134.5	154.1
85°	60.5	42.6	27.5	19.6	29.1	43.7	63.3	83.5	104.2	123.3	142.3
87.5°	49.3	31.9	16.8	8.4	17.9	34.2	52.7	72.8	93.6	112.6	130.6
90°	40.3	23.0	9.0	1.1	10.6	25.8	43.7	63.3	82.9	102.5	120.5
92.5°	33.1	17.4	5.0	0.6	6.7	20.7	37.5	56.0	75.1	94.1	111.5
95°	27.5	13.4	3.4	0.6	5.0	16.3	31.9	49.9	67.8	86.3	103.7
97.5°	23.5	11.2	2.8	0.6	3.9	14.0	27.5	44.3	61.6	79.0	95.8
100°	20.2	9.0	2.2	0.6	3.4	11.8	24.1	39.2	55.5	72.3	88.5
102.5°	17.4	7.3	1.7	0.6	2.8	10.1	21.3	35.3	49.9	66.1	81.8
105°	15.1	6.2	1.7	0.6	2.2	9.0	19.1	31.4	46.0	60.5	75.7
107.5°	12.9	5.0	1.1	0.6	1.7	7.3	16.8	28.6	41.5	55.5	69.5
110°	11.2	4.5	1.1	0.6	1.7	6.7	14.6	25.8	37.5	50.4	63.9

TEST NUMBER: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.5	3.4	1.1	0.6	1.1	5.6	12.9	23.0	34.2	46.0	58.8
115°	8.4	2.8	0.6	0.6	1.1	5.0	11.8	20.7	30.8	42.0	53.8
117.5°	6.7	2.2	0.6	0.6	0.6	3.9	10.1	18.5	28.0	38.7	49.3
120°	5.6	2.2	0.6	0.6	0.6	3.4	9.0	16.3	25.2	34.7	44.8
122.5°	5.0	1.7	0.6	0.6	0.6	2.8	7.8	14.6	22.4	31.4	40.9
125°	4.5	1.7	0.6	0.6	0.6	2.2	6.7	12.9	20.2	28.0	37.0
127.5°	3.4	1.7	0.6	0.6	0.6	1.7	6.2	11.2	17.9	25.2	33.1
130°	2.8	1.1	0.6	0.6	0.6	1.7	5.0	10.1	15.7	22.4	29.7
132.5°	2.2	1.1	0.6	0.6	0.6	1.1	3.9	7.8	13.4	19.6	26.3
135°	2.2	1.1	0.6	0.6	0.6	1.1	2.8	6.7	11.2	16.8	22.4
137.5°	2.2	0.6	0.6	0.6	0.6	1.1	2.2	5.0	9.0	13.4	18.5
140°	1.7	0.6	0.6	0.6	0.6	0.6	1.7	3.9	7.3	11.2	15.7
142.5°	1.7	0.6	0.6	0.6	0.6	0.6	1.7	2.8	5.6	9.0	12.3
145°	1.1	0.6	0.6	0.6	0.6	0.6	1.1	2.2	4.5	6.7	10.1
147.5°	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.7	3.4	5.6	7.8
150°	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.2	3.9	6.2
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	2.8	3.9
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.2	2.8
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	2.2
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	532.9	529.0	530.1	529.6	530.7	532.4	532.4	531.8	531.8	530.7	529.6
5°	531.8	527.9	529.6	529.0	530.1	531.8	531.8	531.2	531.2	529.6	529.0
7.5°	528.4	525.6	526.8	526.8	527.9	529.6	529.6	529.0	529.0	527.3	526.8
10°	525.1	521.7	523.4	523.4	524.5	526.8	526.8	526.2	526.2	524.5	523.9
12.5°	519.5	516.1	518.9	519.5	520.6	522.8	522.3	522.3	522.3	520.6	520.0
15°	512.7	510.5	513.3	513.9	515.5	518.3	518.3	518.3	518.3	516.7	516.1
17.5°	505.5	503.8	506.6	507.7	509.9	512.7	512.7	513.3	513.9	512.7	512.2
20°	497.1	495.9	498.7	501.0	504.3	507.1	508.3	508.8	509.9	508.8	508.3
22.5°	487.5	487.5	491.4	493.7	497.6	500.4	502.1	503.8	504.9	503.8	503.2
25°	476.9	478.6	482.5	486.4	490.9	493.7	495.4	497.6	498.7	498.2	497.6
27.5°	466.8	469.0	474.1	478.0	481.9	486.4	488.1	490.9	492.0	492.0	491.4
30°	455.0	458.4	464.0	468.5	473.5	478.0	480.2	483.0	484.7	483.6	484.2
32.5°	443.8	449.4	453.9	458.9	464.5	469.0	471.8	475.2	476.9	476.3	476.9
35°	431.5	437.1	443.3	448.3	455.0	459.5	463.4	466.2	468.5	467.9	467.9
37.5°	418.0	425.3	431.5	438.2	444.4	449.4	453.3	456.7	458.9	458.9	458.9
40°	405.1	413.0	419.2	427.0	434.8	439.3	443.8	447.2	449.4	450.0	450.5
42.5°	391.1	399.5	406.8	415.2	423.1	428.7	433.7	437.7	439.9	441.0	440.5
45°	378.3	386.1	394.5	404.0	411.3	416.9	423.1	427.6	429.8	430.4	430.9
47.5°	363.7	372.6	382.2	391.7	399.0	406.3	411.9	416.4	418.6	420.3	420.3
50°	349.7	359.2	369.8	379.9	387.8	395.1	400.7	405.7	408.5	409.6	410.2
52.5°	336.8	345.8	357.0	367.0	374.9	382.2	389.5	395.1	397.9	399.0	399.0
55°	321.1	332.3	344.6	354.2	362.6	371.0	378.3	383.9	386.7	388.3	389.5
57.5°	306.5	318.3	331.2	341.3	351.4	359.2	365.9	373.2	375.5	377.7	378.3
60°	292.5	304.3	316.6	327.8	337.9	346.3	354.2	360.3	364.2	365.4	366.5
62.5°	277.9	290.3	303.2	314.4	325.0	335.1	342.4	348.0	352.5	354.2	355.3
65°	263.9	276.8	289.7	301.5	312.7	322.8	330.1	335.7	340.1	342.9	343.5
67.5°	248.8	262.8	276.3	288.6	299.8	310.4	317.7	323.3	327.8	331.2	331.7
70°	234.8	249.4	262.8	276.3	287.5	298.1	306.0	311.6	316.6	318.9	320.0
72.5°	221.3	236.5	250.5	263.9	275.1	285.8	294.2	299.8	304.8	307.6	308.2
75°	208.5	223.6	238.7	251.6	263.4	274.0	282.4	288.6	293.1	295.9	297.0
77.5°	195.6	211.3	226.4	239.3	251.6	262.3	269.5	276.8	281.3	284.7	284.7
80°	182.7	198.9	214.6	227.5	239.8	249.4	257.8	265.1	269.5	272.9	272.9
82.5°	171.5	187.2	202.3	215.2	227.5	238.2	246.6	253.3	258.3	260.6	261.1
85°	158.6	176.0	190.0	204.0	215.7	225.8	234.2	241.5	246.0	248.2	249.4
87.5°	147.9	164.7	179.9	192.2	204.0	214.1	223.6	229.8	234.2	237.0	238.2
90°	137.9	154.1	169.2	181.6	193.9	203.4	212.4	218.5	223.6	225.8	227.0
92.5°	128.9	145.1	159.7	172.0	183.8	194.4	202.9	209.0	213.5	215.7	217.4
95°	120.5	136.2	150.2	163.6	174.8	184.4	193.3	199.5	204.5	206.2	207.9
97.5°	112.1	127.2	141.2	154.1	165.9	174.8	183.2	189.4	193.3	196.1	197.8
100°	104.8	119.4	132.8	145.1	156.3	164.7	173.7	179.3	183.2	185.5	187.7
102.5°	96.9	111.5	124.4	136.2	147.9	155.8	164.2	169.8	173.2	177.1	177.1
105°	90.2	103.7	116.6	127.8	137.9	147.4	154.7	160.3	164.2	167.0	167.0
107.5°	82.9	96.4	108.7	120.5	130.0	139.0	145.7	150.7	155.2	156.9	158.6
110°	77.3	89.1	101.4	112.6	121.6	130.0	136.7	142.3	146.3	147.9	149.1

TEST NUMBER: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	70.6	82.9	94.1	104.8	113.8	121.6	128.3	132.8	136.7	139.0	139.5
115°	65.0	76.8	86.9	96.9	106.5	113.2	119.4	123.8	127.8	129.4	130.6
117.5°	60.0	70.6	80.7	89.1	98.1	105.4	111.5	115.4	118.8	121.0	122.2
120°	54.9	65.0	74.0	82.4	90.8	97.5	103.1	107.0	111.0	112.6	112.6
122.5°	49.9	59.4	67.8	75.7	83.5	89.7	95.8	99.2	102.5	104.2	104.2
125°	45.4	54.4	62.2	69.5	76.8	82.4	87.4	91.3	94.7	95.8	95.8
127.5°	40.9	49.3	56.6	63.3	69.5	75.1	80.1	84.1	86.9	88.0	88.0
130°	37.0	44.3	51.0	57.7	63.9	68.4	73.4	76.8	78.5	80.1	80.7
132.5°	33.1	39.8	46.0	51.6	57.7	62.2	66.1	69.5	71.2	72.8	73.4
135°	29.1	35.3	40.9	46.5	51.6	56.0	59.4	62.2	64.4	65.6	66.1
137.5°	24.7	31.4	36.4	40.9	46.5	49.9	53.8	55.5	57.7	58.8	58.8
140°	20.7	25.8	31.4	35.9	40.3	43.7	47.1	49.9	51.6	52.1	52.1
142.5°	16.8	21.3	25.8	31.4	35.3	38.1	41.5	43.7	44.8	45.4	46.0
145°	13.4	16.8	20.7	25.8	30.3	33.6	35.3	37.5	38.7	39.2	39.8
147.5°	10.1	13.4	16.8	20.2	24.7	28.0	29.7	31.9	33.1	33.6	33.6
150°	7.8	10.1	12.3	15.7	19.1	23.0	25.2	26.9	27.5	28.0	28.0
152.5°	5.6	7.8	9.5	11.8	14.0	17.4	20.7	21.9	22.4	23.0	23.0
155°	3.9	5.6	6.7	8.4	10.1	12.9	15.7	17.4	17.9	18.5	18.5
157.5°	2.8	3.9	4.5	6.2	7.3	8.4	10.6	13.4	14.0	14.0	14.0
160°	1.7	2.2	2.8	3.9	4.5	5.6	6.7	8.4	10.1	10.1	10.1
162.5°	1.1	1.7	1.7	2.2	2.2	3.4	3.9	4.5	6.2	6.7	6.7
165°	0.6	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.8	3.4	3.4
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: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	530.1	531.2	530.7	530.7	530.7	531.8	530.7	525.6	526.8	527.9	529.0
5°	529.6	530.1	530.1	529.6	529.6	530.7	529.6	524.5	525.6	526.8	527.3
7.5°	527.3	527.9	527.9	527.9	527.3	528.4	526.8	522.3	522.3	523.4	523.9
10°	524.5	525.6	525.1	524.5	524.5	524.5	523.4	518.3	518.3	518.9	519.5
12.5°	521.1	521.1	521.1	520.6	520.0	520.0	518.9	513.9	513.3	514.4	513.9
15°	516.7	517.8	516.7	516.1	515.0	515.0	513.3	508.3	507.1	507.7	507.1
17.5°	512.7	513.3	512.2	511.1	509.9	509.4	507.7	502.1	500.4	501.0	499.9
20°	508.8	508.8	507.7	506.6	504.9	503.2	501.0	495.4	492.6	492.6	490.3
22.5°	503.8	503.8	502.7	501.0	499.3	497.1	494.8	489.2	484.7	483.6	481.9
25°	498.2	497.6	497.1	495.4	492.0	489.8	487.5	481.4	476.3	474.1	471.3
27.5°	491.4	491.4	489.8	488.1	484.7	481.9	479.1	473.5	466.8	464.0	460.1
30°	484.2	484.2	482.5	480.2	476.9	473.5	470.2	463.4	456.7	452.8	448.3
32.5°	476.9	476.3	474.6	472.4	469.0	464.0	461.2	454.5	446.6	442.1	436.0
35°	467.9	467.4	465.7	462.9	458.4	454.5	450.0	443.8	434.8	429.2	422.5
37.5°	458.9	458.4	457.3	453.3	448.9	444.4	438.8	432.6	424.2	416.9	410.2
40°	450.0	449.4	447.2	444.4	438.8	433.2	427.6	421.4	412.4	404.0	396.7
42.5°	440.5	439.9	437.1	433.7	427.6	422.0	415.2	408.5	399.5	389.5	382.2
45°	430.9	429.8	427.0	423.1	416.4	410.2	403.5	395.6	386.7	377.1	367.6
47.5°	420.8	419.2	416.4	410.8	405.1	398.4	390.6	382.2	373.2	362.6	352.5
50°	409.6	408.5	405.1	400.1	393.4	386.7	377.7	369.3	358.6	348.6	336.2
52.5°	399.0	396.7	393.9	388.3	381.6	374.3	364.8	354.7	344.1	334.5	321.7
55°	387.8	386.7	382.7	378.3	369.8	361.4	352.5	341.8	330.1	318.9	306.5
57.5°	377.1	374.9	371.5	365.4	358.1	349.7	340.1	328.9	316.1	304.3	290.8
60°	366.5	363.1	359.2	353.6	345.8	336.8	326.7	314.9	302.0	289.2	275.1
62.5°	354.7	351.9	347.4	341.8	334.0	324.5	313.8	301.5	289.2	275.7	260.6
65°	342.9	340.1	335.7	330.1	322.2	311.6	300.4	288.0	274.0	261.1	244.9
67.5°	331.2	328.4	323.3	317.2	309.3	299.2	287.5	274.6	260.6	246.6	229.8
70°	319.4	316.1	311.6	304.8	297.0	286.4	274.6	261.1	247.1	232.0	215.2
72.5°	307.6	304.8	299.2	293.1	284.7	274.0	262.3	248.8	234.2	218.5	201.7
75°	295.9	292.5	288.6	281.3	272.3	262.3	249.9	236.5	220.8	205.7	188.3
77.5°	284.1	281.3	276.3	269.0	260.6	249.9	237.6	224.1	208.5	192.8	174.3
80°	272.3	269.0	265.1	258.3	248.8	238.2	225.3	211.8	196.1	179.9	161.4
82.5°	260.6	257.2	252.7	246.0	237.0	226.4	214.1	199.5	183.8	167.0	149.6
85°	248.8	246.0	241.0	234.2	224.7	214.1	201.7	188.8	172.0	155.2	137.9
87.5°	237.0	234.2	229.2	222.5	213.5	202.9	190.5	177.1	160.8	145.1	126.1
90°	225.8	223.6	218.5	211.8	202.9	192.2	181.0	166.4	150.7	135.0	117.1
92.5°	215.7	213.5	209.0	202.3	194.4	182.7	171.5	157.5	141.8	125.5	108.2
95°	206.8	204.0	199.5	193.3	183.8	173.7	162.5	148.5	133.4	117.1	100.3
97.5°	196.7	193.9	189.4	182.7	174.8	164.2	153.0	139.5	124.4	109.3	92.5
100°	186.6	183.8	178.8	173.2	165.3	154.7	144.0	130.6	116.6	102.0	85.7
102.5°	176.5	173.7	169.2	163.6	155.8	146.3	135.6	122.7	108.7	94.1	79.0
105°	167.0	164.2	159.7	154.1	146.8	137.3	126.1	114.9	101.4	87.4	72.8
107.5°	157.5	154.7	150.7	145.1	137.9	128.9	118.2	106.5	94.1	80.7	66.7
110°	147.9	145.7	141.2	136.2	128.9	119.9	110.4	99.2	86.9	74.5	61.1

TEST NUMBER: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	139.0	136.7	132.2	126.6	120.5	112.1	102.5	91.9	80.1	68.4	55.5
115°	130.0	127.2	123.3	118.2	112.1	104.2	95.3	85.7	74.0	62.8	51.0
117.5°	121.0	118.8	114.9	109.8	104.2	96.4	88.0	79.0	67.8	57.2	46.5
120°	112.1	110.4	106.5	102.0	96.4	89.1	81.3	72.3	62.2	52.1	42.0
122.5°	103.7	102.0	98.1	94.1	88.5	81.8	74.5	66.1	57.2	47.6	38.7
125°	95.8	93.6	90.2	86.3	81.3	75.1	67.8	60.0	51.6	43.1	34.7
127.5°	87.4	85.7	83.5	79.0	74.0	68.4	61.6	54.9	47.1	39.2	31.4
130°	80.7	78.5	75.7	72.3	67.8	62.2	56.0	49.3	42.6	35.3	27.5
132.5°	72.8	70.6	68.4	65.0	61.1	56.0	50.4	44.3	38.1	31.4	24.7
135°	65.6	63.9	61.6	58.3	54.4	50.4	44.8	39.2	33.6	27.5	21.9
137.5°	58.8	57.2	54.9	52.7	48.8	44.8	39.8	34.7	29.7	24.1	19.1
140°	52.1	51.0	48.8	46.5	43.1	39.2	34.7	30.3	25.8	20.7	16.3
142.5°	45.4	44.3	42.6	40.3	37.5	34.2	30.3	26.3	21.9	17.9	14.0
145°	39.2	38.7	37.0	34.7	32.5	29.1	25.8	22.4	18.5	15.1	11.2
147.5°	33.1	32.5	31.4	29.7	27.5	24.7	21.9	18.5	15.7	12.3	9.0
150°	27.5	26.9	26.3	24.1	23.0	20.2	17.9	15.1	12.9	9.5	7.3
152.5°	22.4	22.4	21.3	19.6	18.5	16.3	14.6	12.3	10.1	7.8	5.6
155°	17.9	17.4	16.8	15.7	14.6	12.9	11.2	9.5	7.8	5.6	3.9
157.5°	14.0	13.4	12.9	11.8	10.6	10.1	8.4	6.7	5.0	3.9	2.8
160°	10.1	9.5	9.0	8.4	7.8	6.7	5.6	4.5	3.4	2.2	1.7
162.5°	6.7	6.2	6.2	5.6	5.0	3.9	3.4	2.8	2.2	1.7	1.1
165°	3.4	3.4	2.8	2.8	2.2	1.7	1.7	1.7	1.1	1.1	0.6
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

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CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	531.2	531.2	531.2	531.2	531.2	531.2	531.2
2.5°	528.4	528.4	530.7	530.1	528.4	531.8	535.7
5°	526.8	526.8	528.4	528.4	526.8	530.1	533.5
7.5°	523.9	523.4	525.1	525.1	522.8	525.6	529.6
10°	518.9	518.3	520.0	520.0	517.8	520.6	523.9
12.5°	513.3	512.2	513.9	513.3	511.1	513.9	517.2
15°	506.0	505.5	506.6	505.5	503.2	506.0	509.4
17.5°	498.7	497.1	497.6	497.6	493.7	496.5	499.3
20°	489.2	487.0	487.5	487.0	484.2	485.8	489.2
22.5°	479.7	476.3	476.3	475.8	472.4	474.6	477.4
25°	467.9	464.0	464.0	463.4	459.5	461.2	464.0
27.5°	456.1	452.2	450.5	450.0	446.1	446.1	450.0
30°	443.8	438.2	437.1	435.4	431.5	431.5	434.8
32.5°	432.0	424.2	422.0	419.7	415.8	415.2	419.2
35°	416.4	410.2	406.3	404.0	399.5	398.4	401.8
37.5°	403.5	395.6	390.0	387.2	382.7	381.1	385.5
40°	389.5	381.1	373.8	372.1	365.4	363.1	367.0
42.5°	373.8	364.8	357.5	354.2	349.1	346.9	347.4
45°	358.1	348.6	340.7	336.2	331.2	327.3	329.5
47.5°	341.8	333.4	323.9	317.2	311.0	308.2	309.3
50°	325.6	315.5	306.5	299.2	292.0	288.6	290.8
52.5°	309.3	298.7	288.6	280.7	272.3	269.0	269.5
55°	293.6	282.4	270.7	262.3	254.4	249.4	248.2
57.5°	277.9	265.6	253.3	243.8	233.7	229.2	227.5
60°	261.1	248.2	235.4	224.1	213.5	208.5	206.2
62.5°	245.4	231.4	216.9	205.1	194.4	187.7	186.0
65°	230.3	214.1	199.5	186.0	174.3	167.0	164.7
67.5°	214.1	197.3	181.6	167.0	155.8	146.3	145.1
70°	198.9	181.0	163.6	148.5	136.2	126.6	122.2
72.5°	183.8	165.3	147.4	131.1	115.4	106.5	103.1
75°	169.2	150.2	131.1	114.3	96.9	86.3	82.9
77.5°	155.8	136.2	116.0	97.5	81.3	67.8	63.3
80°	142.9	122.7	101.4	82.4	65.0	50.4	45.4
82.5°	129.4	110.4	88.5	68.4	50.4	35.3	29.1
85°	117.7	98.6	76.8	56.6	38.7	22.4	15.7
87.5°	108.2	87.4	67.8	47.6	29.1	12.9	4.5
90°	98.6	78.5	58.8	39.2	21.9	7.3	0.6
92.5°	90.2	71.2	51.6	33.6	16.8	5.0	0.6
95°	82.4	63.9	45.4	28.0	13.4	3.4	0.6
97.5°	75.1	57.7	40.3	24.1	11.2	2.8	0.6
100°	68.9	52.1	35.9	21.3	9.5	2.2	0.6
102.5°	62.8	47.1	31.9	18.5	8.4	1.7	0.6
105°	57.7	42.6	28.6	16.8	7.3	1.7	0.6
107.5°	52.7	38.7	25.8	14.6	6.2	1.1	0.6
110°	47.6	35.3	23.0	12.9	5.6	1.1	0.6

TEST NUMBER: P1213385

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	43.7	31.9	20.7	11.8	4.5	1.1	0.6
115°	39.8	28.6	18.5	10.1	3.9	0.6	0.6
117.5°	35.9	25.8	16.3	9.0	3.4	0.6	0.6
120°	32.5	23.0	14.6	7.8	2.8	0.6	0.6
122.5°	29.1	20.7	12.9	6.7	2.2	0.6	0.6
125°	26.3	18.5	11.2	5.6	1.7	0.6	0.6
127.5°	23.5	16.3	10.1	5.0	1.7	0.6	0.6
130°	20.7	14.6	8.4	3.9	1.1	0.6	0.6
132.5°	18.5	12.3	7.3	3.4	1.1	0.6	0.6
135°	16.3	10.6	6.2	2.2	1.1	0.6	0.6
137.5°	14.0	9.0	5.0	1.7	0.6	0.6	0.6
140°	11.8	7.8	3.9	1.7	0.6	0.6	0.6
142.5°	10.1	6.2	2.8	1.1	0.6	0.6	0.6
145°	7.8	5.0	2.2	1.1	0.6	0.6	0.6
147.5°	6.2	3.9	1.7	1.1	0.6	0.6	0.6
150°	4.5	2.8	1.7	0.6	0.6	0.6	0.6
152.5°	3.4	2.2	1.1	0.6	0.6	0.6	0.6
155°	2.2	1.7	1.1	0.6	0.6	0.6	0.6
157.5°	1.7	1.1	0.6	0.6	0.6	0.6	0.6
160°	1.1	0.6	0.6	0.6	0.6	0.6	0.6
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)