

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: P1213736

Luminaire Tested: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213736
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

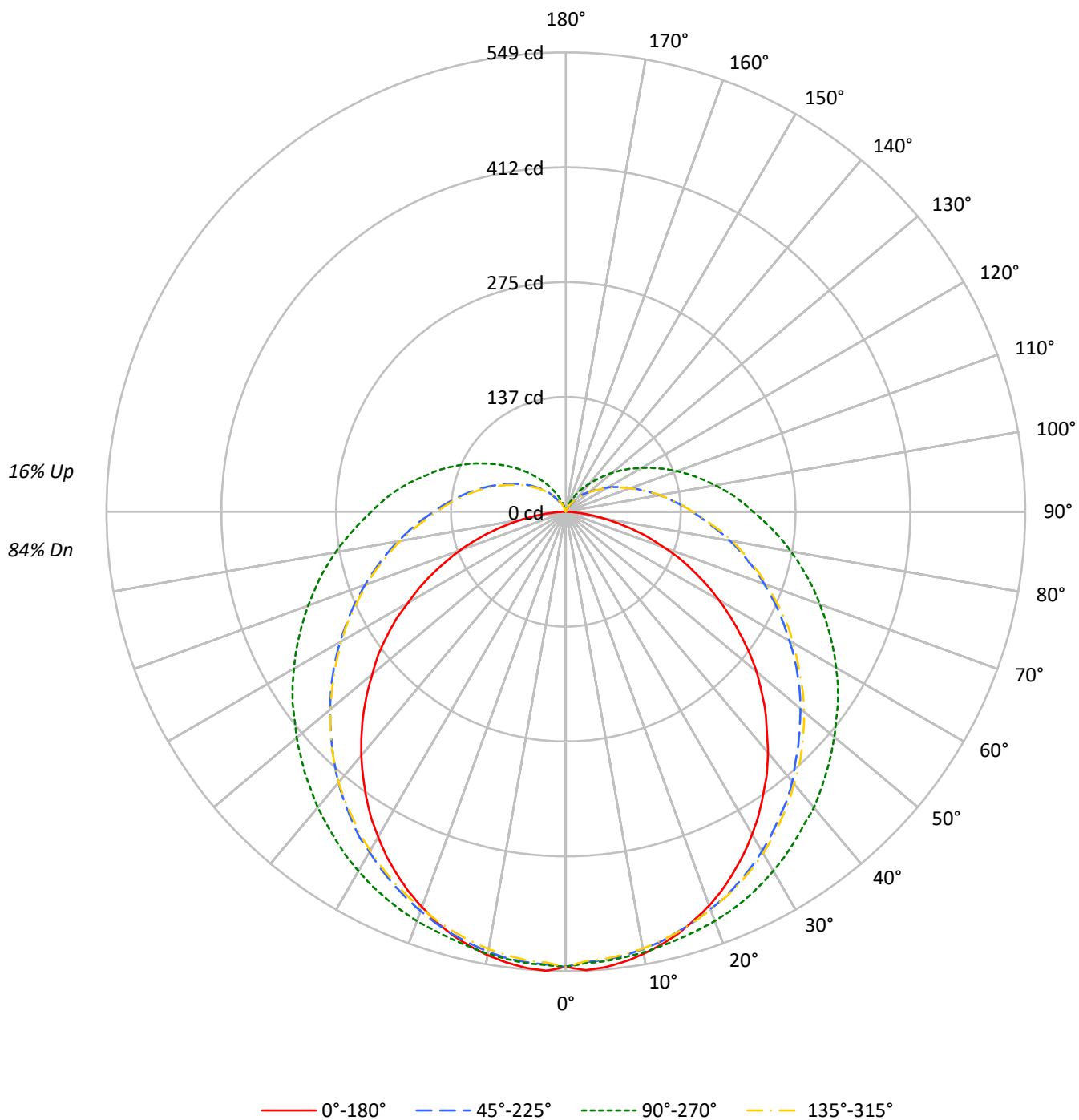
Lumens per Lamp: N/A
Luminaire Lumens: 2363.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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	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°	4395	4395	4395	4395
5°	4419	4236	4428	4254
10°	4377	4115	4392	4128
15°	4327	4012	4346	4017
20°	4259	3937	4274	3937
25°	4174	3870	4200	3866
30°	4081	3802	4113	3802
35°	3972	3738	4016	3743
40°	3863	3701	3910	3701
45°	3739	3661	3796	3666
50°	3609	3638	3658	3648
55°	3428	3641	3536	3657
60°	3237	3652	3342	3675
65°	3023	3690	3156	3726
70°	2722	3757	2933	3810
75°	2374	3879	2598	3955
80°	1838	4062	2087	4156
85°	1100	4353	1373	4474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 5003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	2.2
10°-20°	148.1	6.3
20°-30°	227.0	9.6
30°-40°	280.1	11.9
40°-50°	303.9	12.9
50°-60°	299.5	12.7
60°-70°	270.8	11.5
70°-80°	225.6	9.5
80°-90°	174.7	7.4
90°-100°	132.5	5.6
100°-110°	98.1	4.1
110°-120°	68.2	2.9
120°-130°	43.5	1.8
130°-140°	24.4	1.0
140°-150°	11.2	0.5
150°-160°	3.5	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	426.6	18.1
0°-40°	706.7	29.9
0°-60°	1310.1	55.4
0°-90°	1981.2	83.8
90°-120°	298.8	12.6
90°-150°	377.9	16.0
90°-180°	382.0	16.2
0°-180°	2363.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	544	544	544	544	544	
5°	546	539	547	542	546	52
15°	522	528	524	528	522	147
25°	475	510	478	510	475	219
35°	411	478	416	479	411	258
45°	337	441	342	441	337	260
55°	254	397	262	399	254	227
65°	169	348	176	352	169	167
75°	85	298	93	304	85	90
85°	16	248	20	255	16	19
90°	1	224	1	232	1	1
95°	1	203	1	213	1	0
105°	1	161	1	171	1	1
115°	1	123	1	134	1	1
125°	1	88	1	98	1	1
135°	1	57	1	68	1	0
145°	1	33	1	41	1	0
155°	1	14	1	19	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°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	548.5	548.5	547.9	546.8	547.3	549.1	547.9	545.0	543.3	538.7	539.9
5°	546.2	546.2	545.6	544.5	545.0	547.3	546.2	543.9	541.6	537.6	539.3
7.5°	542.2	542.2	541.6	540.5	541.6	543.9	542.7	540.5	538.7	534.7	536.4
10°	536.4	537.0	536.4	534.7	537.0	539.3	538.7	535.9	534.1	530.7	532.4
12.5°	529.6	530.1	529.6	529.0	530.1	533.6	532.4	530.1	529.0	526.1	527.8
15°	521.5	522.1	520.9	520.9	522.1	525.5	525.5	523.2	522.1	519.2	522.7
17.5°	511.2	511.8	511.2	511.2	512.3	515.8	516.4	515.2	514.1	512.9	516.4
20°	500.9	500.3	500.3	499.7	502.0	507.2	506.6	506.6	505.5	505.5	509.5
22.5°	488.8	488.8	488.2	488.2	491.1	495.7	495.7	496.8	495.7	498.0	501.4
25°	475.0	475.6	475.0	476.2	478.5	483.7	484.2	485.9	486.5	488.8	492.8
27.5°	460.7	461.3	460.7	461.9	465.9	469.9	472.8	475.0	475.6	479.1	484.2
30°	445.2	445.2	445.8	446.9	451.5	457.8	460.1	463.0	463.0	468.7	473.9
32.5°	429.1	429.1	429.1	431.4	436.6	444.1	446.9	450.4	451.5	457.3	463.0
35°	411.4	411.9	411.9	413.7	420.5	428.0	432.0	436.0	438.3	445.2	450.9
37.5°	394.7	395.9	394.2	396.4	406.2	412.5	417.1	421.1	425.1	434.3	438.9
40°	375.8	376.9	376.4	381.0	389.0	397.0	402.2	406.2	411.9	421.1	426.3
42.5°	355.7	356.9	358.0	363.2	371.8	379.8	386.1	391.3	398.2	406.2	414.8
45°	337.4	337.4	339.1	345.4	354.6	363.2	370.6	376.4	384.4	393.0	401.6
47.5°	316.7	317.3	319.6	327.0	336.8	347.1	354.0	361.4	370.1	379.2	389.0
50°	297.8	297.8	301.2	309.2	318.4	329.9	337.4	346.0	355.1	366.0	375.8
52.5°	276.0	277.1	282.3	289.7	301.8	312.1	320.7	329.9	340.8	352.3	363.2
55°	254.2	256.5	260.5	270.8	283.4	293.2	303.5	315.0	325.3	337.9	350.5
57.5°	232.9	234.7	241.0	251.3	264.5	276.5	287.4	298.3	311.0	323.6	336.8
60°	211.1	213.4	220.9	231.2	245.6	258.2	270.8	282.3	295.5	308.7	322.4
62.5°	190.5	192.2	200.8	212.9	227.2	241.0	253.6	267.4	281.7	294.3	308.1
65°	168.7	171.5	181.3	192.2	208.8	222.6	236.9	251.9	266.8	280.6	293.7
67.5°	148.6	150.3	160.6	173.3	189.9	205.4	220.3	236.4	251.9	266.2	279.4
70°	125.1	130.8	141.1	154.3	172.1	188.2	204.2	220.9	237.5	252.4	265.1
72.5°	105.6	110.2	121.6	136.0	153.2	172.1	188.8	206.5	223.2	238.7	251.9
75°	84.9	89.5	102.7	118.8	136.5	156.6	173.8	192.2	209.4	224.9	238.7
77.5°	64.8	70.6	84.9	101.5	121.1	141.7	159.5	177.9	195.6	212.3	226.0
80°	46.5	52.8	68.3	87.2	106.1	126.8	146.3	164.7	182.4	199.1	213.4
82.5°	29.8	36.7	53.4	72.3	92.4	113.0	133.1	151.5	169.2	185.9	200.8
85°	16.1	23.5	40.7	59.7	79.7	100.4	120.5	140.0	157.2	172.7	188.8
87.5°	4.6	13.8	30.4	49.3	70.0	88.9	108.4	127.9	145.2	161.8	176.1
90°	0.6	8.0	22.9	40.7	60.8	79.2	98.7	117.0	134.3	150.9	165.2
92.5°	0.6	5.2	17.8	33.8	52.2	71.1	90.6	108.4	124.5	141.1	155.5
95°	0.6	4.0	14.3	28.7	45.9	63.7	82.0	99.3	115.9	131.4	145.7
97.5°	0.6	2.9	11.5	24.7	40.2	56.8	74.6	91.8	107.9	122.8	136.0
100°	0.6	2.3	9.2	21.2	35.0	51.1	67.1	83.8	99.3	113.6	127.4
102.5°	0.6	1.7	8.0	17.8	31.0	45.3	60.8	76.3	91.2	105.0	118.8
105°	0.6	1.7	6.9	15.5	27.5	40.7	55.1	70.0	83.8	97.0	109.6
107.5°	0.6	1.1	5.7	13.2	24.1	36.7	49.9	64.3	76.9	89.5	101.5
110°	0.6	1.1	4.6	12.0	21.2	32.7	45.3	58.5	70.6	82.6	94.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.1	4.0	10.3	18.4	29.3	40.7	52.8	64.3	76.3	86.6
115°	0.6	1.1	3.4	9.2	17.2	25.2	36.7	47.6	59.1	70.0	79.7
117.5°	0.6	1.1	2.9	7.5	14.9	22.9	32.1	43.0	53.4	63.7	72.9
120°	0.6	1.1	2.3	6.9	13.2	20.7	28.7	38.4	48.2	57.9	67.7
122.5°	0.6	0.6	2.3	5.7	11.5	18.4	26.4	33.8	43.0	52.2	60.8
125°	0.6	0.6	2.3	5.2	9.8	16.6	23.5	30.4	38.4	46.5	53.9
127.5°	0.6	0.6	1.7	4.0	8.6	14.3	20.7	28.1	33.8	41.3	48.8
130°	0.6	0.6	1.7	3.4	7.5	12.0	18.4	24.7	31.6	36.7	43.0
132.5°	0.6	0.6	1.7	2.9	5.7	9.8	15.5	21.2	27.5	33.3	38.4
135°	0.6	0.6	1.1	2.3	4.6	8.0	12.6	17.8	24.1	29.8	35.0
137.5°	0.6	0.6	1.1	2.3	3.4	6.9	9.8	14.3	20.1	25.2	30.4
140°	0.6	0.6	1.1	1.7	2.9	5.2	8.0	11.5	16.1	20.7	26.4
142.5°	0.6	0.6	0.6	1.7	2.3	4.0	6.3	9.2	12.6	16.6	21.2
145°	0.6	0.6	0.6	1.7	2.3	2.9	5.2	7.5	9.8	12.6	16.6
147.5°	0.6	0.6	0.6	1.1	1.7	2.3	4.0	5.7	7.5	9.8	12.0
150°	0.6	0.6	0.6	1.1	1.7	2.3	2.9	4.0	5.7	8.0	9.8
152.5°	0.6	0.6	0.6	1.1	1.1	1.7	2.3	2.9	4.0	5.7	6.9
155°	0.6	0.6	0.6	0.6	1.1	1.7	2.3	2.3	2.9	4.0	5.2
157.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.7	1.7	2.3	2.3	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°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	539.9	540.5	542.2	542.2	541.0	541.0	540.5	539.9	540.5	541.6	541.6
5°	538.7	539.3	541.0	541.6	540.5	539.9	539.9	539.3	539.9	541.0	541.0
7.5°	536.4	537.0	538.7	539.3	538.2	538.2	537.6	537.0	538.2	538.7	538.7
10°	533.0	533.6	535.9	536.4	535.9	535.3	535.3	534.7	535.3	536.4	536.4
12.5°	528.4	529.6	532.4	532.4	532.4	531.8	531.8	531.3	531.8	533.0	532.4
15°	523.2	525.5	527.8	529.0	529.0	529.0	528.4	527.8	529.0	529.6	529.0
17.5°	517.5	520.4	523.8	525.0	525.0	525.5	525.0	524.4	525.5	525.5	525.0
20°	511.8	514.6	518.1	519.2	520.4	520.9	520.9	520.4	520.9	521.5	520.9
22.5°	504.3	507.7	511.8	513.5	514.6	515.8	515.8	515.8	516.4	516.9	515.8
25°	496.3	500.3	504.9	506.6	508.9	509.5	510.0	510.0	510.6	511.2	509.5
27.5°	487.7	492.3	496.8	499.7	501.4	502.6	502.6	503.2	503.7	504.3	502.6
30°	477.3	484.2	488.2	490.5	492.8	494.6	495.1	495.7	496.3	496.8	495.1
32.5°	468.2	473.9	479.1	481.9	484.8	487.1	487.7	487.7	488.8	488.8	487.1
35°	457.3	464.1	469.3	472.2	475.6	477.3	478.5	478.5	479.6	479.6	477.9
37.5°	446.4	453.2	459.0	462.4	466.4	468.7	469.3	469.3	470.5	470.5	468.2
40°	434.9	442.3	448.7	452.7	456.1	459.0	459.6	461.3	461.3	460.7	458.4
42.5°	423.4	430.3	437.2	441.8	446.4	449.2	450.4	450.9	450.9	450.4	448.7
45°	410.8	418.8	425.1	430.9	435.5	438.3	440.0	440.6	440.6	439.5	437.8
47.5°	398.7	406.8	413.1	419.4	424.0	427.4	429.1	429.7	429.1	428.6	426.9
50°	386.1	395.3	401.6	407.9	412.5	415.4	418.2	418.8	418.2	417.7	414.2
52.5°	372.9	382.7	389.6	395.9	401.0	404.5	406.8	407.3	407.3	406.2	403.9
55°	359.7	368.3	376.9	383.8	389.6	393.0	395.9	397.0	395.9	394.7	391.9
57.5°	347.7	355.7	364.3	371.8	377.5	382.1	384.4	385.5	384.4	382.7	379.8
60°	333.3	341.9	351.7	358.6	364.9	369.5	370.6	372.9	371.8	370.1	367.2
62.5°	319.6	329.9	338.5	347.1	352.3	357.4	359.7	360.9	359.7	358.0	355.1
65°	305.2	316.7	325.3	333.9	339.6	344.8	347.7	348.3	347.1	345.4	342.5
67.5°	292.0	302.9	312.1	321.3	326.5	331.6	334.5	335.6	334.5	332.2	329.3
70°	278.8	289.7	300.6	307.5	313.8	319.6	321.3	323.0	321.9	319.6	316.1
72.5°	265.6	277.1	288.0	294.9	301.8	306.9	309.2	311.0	309.8	307.5	303.5
75°	251.9	263.9	274.8	282.3	289.2	294.3	296.6	298.3	297.2	294.9	290.3
77.5°	239.2	251.3	261.6	269.7	276.5	281.1	285.1	285.7	284.6	282.3	277.7
80°	226.0	238.1	249.0	257.0	263.9	268.5	271.4	273.1	271.9	269.7	265.1
82.5°	214.6	225.5	236.4	244.4	251.3	257.0	259.3	261.0	260.5	257.0	253.6
85°	202.0	214.6	223.2	231.8	238.7	244.4	246.1	248.4	247.9	245.0	240.4
87.5°	189.3	202.0	212.3	220.9	227.2	231.8	234.7	235.8	235.2	232.4	227.2
90°	179.0	190.5	200.8	210.0	215.1	220.3	223.2	223.8	223.8	220.3	216.3
92.5°	169.2	180.2	190.5	199.1	205.4	210.0	212.3	213.4	212.9	210.0	205.4
95°	158.3	170.4	180.2	188.8	195.1	199.7	202.0	203.1	202.5	199.7	195.1
97.5°	149.2	160.1	169.8	177.9	184.2	188.8	191.1	192.2	192.2	189.3	184.7
100°	140.0	150.9	160.1	168.1	173.8	178.4	180.7	181.3	180.7	178.4	173.8
102.5°	130.8	141.1	150.3	157.8	164.1	168.1	170.4	171.0	171.0	168.1	163.5
105°	121.6	132.0	140.6	148.6	153.8	157.8	159.5	161.2	160.6	158.3	153.8
107.5°	113.0	123.4	131.4	138.8	144.0	148.0	149.7	151.5	150.9	148.6	144.0
110°	105.0	114.7	122.2	129.7	134.3	138.3	141.1	141.7	140.6	138.3	134.3

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	97.5	106.1	113.6	120.5	125.6	128.5	130.8	132.0	130.8	128.5	125.6
115°	89.5	98.1	105.6	111.9	116.5	119.9	121.6	122.8	121.6	119.3	116.5
117.5°	82.0	90.1	97.5	103.8	107.9	110.7	112.5	113.6	112.5	110.7	107.9
120°	75.7	82.6	89.5	95.2	99.8	102.1	103.8	105.0	104.4	102.1	99.3
122.5°	68.3	75.7	82.0	87.8	91.8	94.1	95.2	96.4	95.8	94.1	91.2
125°	62.0	68.3	74.6	79.7	83.8	86.1	87.2	88.4	87.8	86.1	82.6
127.5°	55.1	62.0	67.1	72.3	75.2	78.6	79.2	80.3	79.7	78.0	75.2
130°	49.9	55.1	60.2	64.8	68.3	70.6	71.7	72.3	71.1	70.0	67.1
132.5°	43.6	49.3	53.9	57.9	60.2	62.5	63.7	64.3	64.3	62.5	60.2
135°	39.0	43.0	47.0	51.1	53.4	55.7	56.8	57.4	56.8	55.7	53.4
137.5°	35.0	38.4	41.3	44.8	47.6	48.8	49.9	49.9	49.3	48.8	47.0
140°	30.4	34.4	37.3	39.6	41.9	42.5	43.6	43.6	43.0	42.5	41.3
142.5°	25.8	29.3	32.1	35.0	36.7	37.9	38.4	39.0	38.4	37.9	36.1
145°	20.7	24.7	27.5	29.3	31.6	32.1	32.7	33.3	32.7	32.1	30.4
147.5°	16.1	19.5	22.4	24.7	26.4	27.0	27.5	28.1	27.5	26.4	25.8
150°	11.5	14.3	17.8	20.1	21.2	22.4	22.4	22.4	22.9	21.8	20.7
152.5°	9.2	10.3	12.6	14.9	16.6	17.2	17.8	17.8	17.2	17.2	16.1
155°	6.3	7.5	9.2	10.9	12.6	13.2	13.8	13.8	13.2	13.2	12.6
157.5°	4.0	5.2	6.3	7.5	9.2	9.8	10.3	10.3	10.3	9.8	9.2
160°	2.3	2.9	3.4	4.6	5.7	6.3	6.9	6.9	6.9	6.9	6.3
162.5°	1.7	1.7	1.7	2.3	2.9	3.4	4.0	4.0	4.0	4.0	3.4
165°	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	541.0	541.0	541.6	540.5	537.0	537.6	537.6	539.9	541.0	541.6	544.5
5°	539.9	539.9	541.0	539.3	536.4	536.4	536.4	538.7	539.3	540.5	542.7
7.5°	538.2	538.2	538.7	537.0	533.6	533.6	533.0	535.3	536.4	537.0	539.3
10°	535.3	535.3	535.9	534.1	530.1	530.1	529.6	531.3	531.8	533.0	534.7
12.5°	531.3	531.3	531.3	529.6	525.5	525.0	524.4	526.1	526.1	526.7	528.4
15°	527.8	526.7	526.7	525.0	520.9	519.8	518.6	519.2	520.4	519.8	520.9
17.5°	523.8	522.7	521.5	519.8	514.6	512.9	511.8	512.3	511.8	511.2	512.3
20°	519.2	517.5	516.9	514.1	508.9	506.0	503.7	502.6	503.2	501.4	502.0
22.5°	514.1	511.8	510.6	507.2	502.0	498.6	495.7	493.4	492.8	490.5	491.1
25°	507.7	504.9	503.2	500.3	494.6	490.5	487.1	483.7	481.9	479.1	478.5
27.5°	500.3	497.4	495.1	492.3	486.5	481.4	477.3	472.8	470.5	467.0	465.3
30°	492.8	489.4	485.9	483.7	477.3	471.6	465.3	461.3	457.8	453.8	450.9
32.5°	483.7	480.2	476.8	473.3	467.6	460.7	455.5	449.2	445.2	440.6	437.2
35°	474.5	469.9	466.4	461.9	456.7	448.7	442.3	436.0	430.9	425.7	421.7
37.5°	464.1	460.7	455.5	451.5	445.2	437.2	430.3	422.3	417.7	410.8	405.6
40°	454.4	450.4	445.2	440.0	433.7	424.6	417.1	407.9	402.8	394.7	389.6
42.5°	444.6	438.9	433.7	428.0	421.1	412.5	403.3	394.2	387.3	379.8	372.3
45°	433.7	427.4	421.1	414.8	407.9	399.3	389.6	379.8	371.2	364.3	355.1
47.5°	422.3	416.0	408.5	401.6	394.2	385.5	375.2	364.9	355.7	347.7	337.9
50°	410.8	404.5	396.4	389.0	380.4	371.8	360.9	348.8	339.1	328.7	320.1
52.5°	398.7	392.4	385.0	375.2	366.0	357.4	346.0	333.3	322.4	313.8	302.9
55°	386.7	380.4	371.8	362.0	352.8	341.9	331.0	318.4	306.4	296.0	285.1
57.5°	374.1	368.3	358.6	350.5	339.1	327.6	316.1	304.1	290.9	278.8	266.2
60°	361.4	355.1	346.0	336.2	324.7	313.3	301.2	288.0	274.2	261.0	249.6
62.5°	350.0	341.9	333.3	323.0	311.0	300.1	286.3	271.9	258.2	244.4	230.6
65°	336.8	328.2	320.1	309.8	297.2	284.6	270.8	256.5	241.5	226.6	212.9
67.5°	323.6	315.0	306.4	296.0	282.8	269.7	255.3	241.0	224.3	210.0	193.9
70°	310.4	303.5	292.6	281.7	269.7	255.3	241.0	225.5	208.3	192.8	176.1
72.5°	297.2	290.3	279.4	267.9	256.5	241.5	226.0	210.6	194.5	176.7	158.9
75°	284.6	276.0	266.2	255.3	243.3	227.8	212.3	196.2	177.3	160.6	142.3
77.5°	272.5	264.5	254.7	242.7	229.5	214.6	198.5	181.9	162.9	145.2	125.1
80°	259.3	251.3	241.5	229.5	216.3	202.0	184.7	167.5	149.2	129.7	109.0
82.5°	246.7	239.2	228.3	217.4	203.1	188.8	171.5	154.3	134.8	115.9	95.8
85°	233.5	226.0	215.7	204.2	190.5	175.0	158.9	141.7	122.2	102.7	82.6
87.5°	222.0	213.4	203.1	191.6	177.9	162.9	147.4	129.1	110.2	91.2	70.6
90°	210.0	202.0	191.6	180.2	166.4	151.5	135.4	118.2	99.8	80.3	60.8
92.5°	199.7	191.1	181.3	169.8	156.1	141.7	125.6	108.4	90.6	71.7	52.8
95°	189.3	180.7	171.5	160.1	146.3	132.0	115.9	99.3	82.0	63.7	45.9
97.5°	177.9	170.4	161.2	150.3	136.5	122.8	107.3	91.2	74.6	56.8	40.2
100°	168.7	160.1	151.5	140.0	127.4	114.2	98.7	83.2	67.1	50.5	35.0
102.5°	158.3	150.3	141.7	130.8	118.2	105.0	90.6	75.7	60.8	45.3	30.4
105°	148.6	141.1	132.0	121.6	109.6	97.0	83.2	69.4	55.1	40.2	27.0
107.5°	138.8	131.4	122.8	113.0	101.5	88.9	76.3	62.5	49.3	36.1	24.1
110°	129.1	122.2	114.2	104.4	93.5	82.0	70.0	57.4	44.2	32.1	21.2

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	120.5	113.6	105.6	96.4	86.1	75.2	63.7	51.6	39.6	28.7	18.4
115°	111.9	105.6	97.5	89.5	79.2	68.8	57.9	46.5	35.6	25.8	16.1
117.5°	103.3	97.0	89.5	81.5	72.3	62.5	52.2	41.3	32.1	22.9	14.3
120°	94.7	88.9	82.0	74.6	66.6	56.8	46.5	37.3	28.7	20.1	12.6
122.5°	86.6	81.5	75.2	68.3	59.7	50.5	41.9	33.8	25.8	17.8	10.3
125°	79.2	74.0	68.3	61.4	53.4	45.3	37.9	30.4	22.4	15.5	8.6
127.5°	71.7	66.6	60.8	54.5	48.2	40.7	33.8	27.0	20.1	13.8	7.5
130°	64.3	59.7	54.5	49.3	43.0	36.1	30.4	23.5	17.2	10.9	6.3
132.5°	56.8	53.4	48.8	43.6	37.9	32.7	26.4	20.7	14.9	9.8	5.7
135°	50.5	47.0	43.0	38.4	33.8	28.7	22.9	17.8	12.6	8.0	4.6
137.5°	44.8	41.9	37.9	33.8	29.8	24.7	20.1	14.9	10.3	6.9	3.4
140°	39.6	36.7	33.3	29.3	25.8	21.2	16.6	12.0	9.2	5.7	2.9
142.5°	34.4	31.6	28.7	25.2	21.8	17.8	13.8	10.3	7.5	4.6	2.9
145°	29.3	27.0	24.1	21.2	17.8	14.3	11.5	8.6	5.7	3.4	2.3
147.5°	24.1	22.4	19.5	17.2	14.3	11.5	9.2	6.9	4.6	2.9	1.7
150°	19.5	17.8	15.5	13.2	11.5	9.2	7.5	5.2	3.4	2.9	1.7
152.5°	14.9	13.8	12.0	10.9	9.2	6.9	5.2	4.0	2.9	2.3	1.1
155°	12.0	10.9	9.8	8.0	6.9	5.2	4.0	2.9	2.3	1.7	1.1
157.5°	8.6	8.0	6.9	5.7	4.6	3.4	2.9	2.9	1.7	1.1	0.6
160°	5.7	5.2	4.6	3.4	2.9	2.9	2.3	1.7	1.1	1.1	0.6
162.5°	3.4	2.9	2.9	2.9	2.3	2.3	1.7	1.1	1.1	0.6	0.6
165°	2.3	2.3	2.3	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: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	544.5	542.7	545.0	549.1	549.6	549.1	547.9	549.6	551.9	551.4	547.3
5°	543.3	541.0	543.3	547.3	547.3	546.8	546.2	547.9	550.2	549.6	546.2
7.5°	539.9	537.6	539.9	543.3	543.9	542.7	542.7	544.5	546.8	546.2	543.3
10°	535.3	533.0	534.1	538.2	539.3	538.2	538.2	539.9	542.7	542.2	538.7
12.5°	528.4	526.7	527.8	531.3	532.4	531.8	531.3	533.6	536.4	536.4	533.0
15°	520.9	518.6	519.8	523.8	524.4	523.2	523.8	525.5	529.0	529.0	526.1
17.5°	512.3	509.5	511.2	514.1	514.6	514.6	514.6	516.9	520.9	520.4	518.1
20°	502.6	498.6	499.7	502.6	503.7	503.7	503.7	507.7	510.6	510.6	508.3
22.5°	491.1	488.2	488.2	491.1	492.8	492.3	492.3	495.7	499.7	499.1	499.1
25°	477.9	475.6	474.5	477.9	478.5	479.1	480.2	483.7	488.2	488.2	488.8
27.5°	464.1	461.9	461.3	464.1	464.7	465.3	466.4	470.5	475.0	475.6	476.8
30°	450.9	447.5	446.4	448.7	449.8	450.4	450.4	456.7	460.7	462.4	464.7
32.5°	435.5	432.0	429.1	433.2	433.7	434.9	435.5	441.8	446.4	449.2	452.7
35°	420.0	414.2	413.1	416.0	417.1	417.7	418.8	425.7	432.0	434.3	438.9
37.5°	402.8	398.7	395.3	398.2	399.3	399.9	403.3	409.6	416.0	419.4	424.0
40°	386.7	381.5	378.7	380.4	381.5	382.1	386.1	393.0	400.5	404.5	410.2
42.5°	368.9	362.0	359.7	361.4	362.0	363.7	367.2	376.4	383.8	389.6	394.2
45°	351.1	346.0	340.8	342.5	343.1	344.2	349.4	359.2	367.2	374.1	379.2
47.5°	332.8	326.5	321.3	322.4	324.7	325.3	331.0	342.5	350.0	357.4	364.3
50°	314.4	305.8	301.8	301.8	302.9	305.8	313.3	324.7	332.8	341.4	348.8
52.5°	295.5	287.4	282.8	283.4	284.6	288.0	294.9	306.4	315.5	324.7	333.9
55°	276.5	267.9	263.3	262.2	263.3	267.9	276.0	288.0	297.2	308.1	317.8
57.5°	257.6	247.3	243.3	241.5	242.7	248.4	256.5	269.1	280.6	290.9	302.4
60°	236.9	228.9	222.0	218.0	220.9	228.3	236.9	250.1	262.2	273.7	286.3
62.5°	219.2	208.8	201.4	197.4	200.2	206.5	218.6	231.2	244.4	257.6	270.2
65°	199.1	188.8	180.2	176.1	179.0	186.5	198.5	212.3	226.6	239.8	254.7
67.5°	179.6	168.7	158.3	154.3	157.8	165.8	179.0	194.5	210.0	223.8	239.8
70°	160.6	148.6	137.7	134.8	137.1	148.0	160.6	176.1	192.2	208.3	224.9
72.5°	143.4	128.5	117.0	113.6	116.5	128.5	142.9	158.9	176.1	193.3	211.1
75°	123.4	109.6	97.0	92.9	96.4	107.3	125.1	142.3	160.6	179.0	195.6
77.5°	107.3	91.2	78.0	71.7	77.5	91.2	108.4	126.8	145.7	164.7	183.6
80°	90.6	74.0	59.7	52.8	59.1	74.0	91.2	111.3	132.5	151.5	168.7
82.5°	75.7	57.9	43.0	35.6	42.5	59.1	78.0	98.1	118.8	137.7	157.8
85°	62.0	43.6	28.1	20.1	29.8	44.8	64.8	85.5	106.7	126.2	145.7
87.5°	50.5	32.7	17.2	8.6	18.4	35.0	53.9	74.6	95.8	115.3	133.7
90°	41.3	23.5	9.2	1.1	10.9	26.4	44.8	64.8	84.9	105.0	123.4
92.5°	33.8	17.8	5.2	0.6	6.9	21.2	38.4	57.4	76.9	96.4	114.2
95°	28.1	13.8	3.4	0.6	5.2	16.6	32.7	51.1	69.4	88.4	106.1
97.5°	24.1	11.5	2.9	0.6	4.0	14.3	28.1	45.3	63.1	80.9	98.1
100°	20.7	9.2	2.3	0.6	3.4	12.0	24.7	40.2	56.8	74.0	90.6
102.5°	17.8	7.5	1.7	0.6	2.9	10.3	21.8	36.1	51.1	67.7	83.8
105°	15.5	6.3	1.7	0.6	2.3	9.2	19.5	32.1	47.0	62.0	77.5
107.5°	13.2	5.2	1.1	0.6	1.7	7.5	17.2	29.3	42.5	56.8	71.1
110°	11.5	4.6	1.1	0.6	1.7	6.9	14.9	26.4	38.4	51.6	65.4

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.8	3.4	1.1	0.6	1.1	5.7	13.2	23.5	35.0	47.0	60.2
115°	8.6	2.9	0.6	0.6	1.1	5.2	12.0	21.2	31.6	43.0	55.1
117.5°	6.9	2.3	0.6	0.6	0.6	4.0	10.3	18.9	28.7	39.6	50.5
120°	5.7	2.3	0.6	0.6	0.6	3.4	9.2	16.6	25.8	35.6	45.9
122.5°	5.2	1.7	0.6	0.6	0.6	2.9	8.0	14.9	22.9	32.1	41.9
125°	4.6	1.7	0.6	0.6	0.6	2.3	6.9	13.2	20.7	28.7	37.9
127.5°	3.4	1.7	0.6	0.6	0.6	1.7	6.3	11.5	18.4	25.8	33.8
130°	2.9	1.1	0.6	0.6	0.6	1.7	5.2	10.3	16.1	22.9	30.4
132.5°	2.3	1.1	0.6	0.6	0.6	1.1	4.0	8.0	13.8	20.1	27.0
135°	2.3	1.1	0.6	0.6	0.6	1.1	2.9	6.9	11.5	17.2	22.9
137.5°	2.3	0.6	0.6	0.6	0.6	1.1	2.3	5.2	9.2	13.8	18.9
140°	1.7	0.6	0.6	0.6	0.6	0.6	1.7	4.0	7.5	11.5	16.1
142.5°	1.7	0.6	0.6	0.6	0.6	0.6	1.7	2.9	5.7	9.2	12.6
145°	1.1	0.6	0.6	0.6	0.6	0.6	1.1	2.3	4.6	6.9	10.3
147.5°	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.7	3.4	5.7	8.0
150°	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.3	4.0	6.3
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	2.9	4.0
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.3	2.9
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	2.3
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: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	545.6	541.6	542.7	542.2	543.3	545.0	545.0	544.5	544.5	543.3	542.2
5°	544.5	540.5	542.2	541.6	542.7	544.5	544.5	543.9	543.9	542.2	541.6
7.5°	541.0	538.2	539.3	539.3	540.5	542.2	542.2	541.6	541.6	539.9	539.3
10°	537.6	534.1	535.9	535.9	537.0	539.3	539.3	538.7	538.7	537.0	536.4
12.5°	531.8	528.4	531.3	531.8	533.0	535.3	534.7	534.7	534.7	533.0	532.4
15°	525.0	522.7	525.5	526.1	527.8	530.7	530.7	530.7	530.7	529.0	528.4
17.5°	517.5	515.8	518.6	519.8	522.1	525.0	525.0	525.5	526.1	525.0	524.4
20°	508.9	507.7	510.6	512.9	516.4	519.2	520.4	520.9	522.1	520.9	520.4
22.5°	499.1	499.1	503.2	505.5	509.5	512.3	514.1	515.8	516.9	515.8	515.2
25°	488.2	490.0	494.0	498.0	502.6	505.5	507.2	509.5	510.6	510.0	509.5
27.5°	477.9	480.2	485.4	489.4	493.4	498.0	499.7	502.6	503.7	503.7	503.2
30°	465.9	469.3	475.0	479.6	484.8	489.4	491.7	494.6	496.3	495.1	495.7
32.5°	454.4	460.1	464.7	469.9	475.6	480.2	483.1	486.5	488.2	487.7	488.2
35°	441.8	447.5	453.8	459.0	465.9	470.5	474.5	477.3	479.6	479.1	479.1
37.5°	428.0	435.5	441.8	448.7	455.0	460.1	464.1	467.6	469.9	469.9	469.9
40°	414.8	422.8	429.1	437.2	445.2	449.8	454.4	457.8	460.1	460.7	461.3
42.5°	400.5	409.1	416.5	425.1	433.2	438.9	444.1	448.1	450.4	451.5	450.9
45°	387.3	395.3	403.9	413.7	421.1	426.9	433.2	437.8	440.0	440.6	441.2
47.5°	372.3	381.5	391.3	401.0	408.5	416.0	421.7	426.3	428.6	430.3	430.3
50°	358.0	367.8	378.7	389.0	397.0	404.5	410.2	415.4	418.2	419.4	420.0
52.5°	344.8	354.0	365.5	375.8	383.8	391.3	398.7	404.5	407.3	408.5	408.5
55°	328.7	340.2	352.8	362.6	371.2	379.8	387.3	393.0	395.9	397.6	398.7
57.5°	313.8	325.9	339.1	349.4	359.7	367.8	374.6	382.1	384.4	386.7	387.3
60°	299.5	311.5	324.2	335.6	346.0	354.6	362.6	368.9	372.9	374.1	375.2
62.5°	284.6	297.2	310.4	321.9	332.8	343.1	350.5	356.3	360.9	362.6	363.7
65°	270.2	283.4	296.6	308.7	320.1	330.5	337.9	343.7	348.3	351.1	351.7
67.5°	254.7	269.1	282.8	295.5	306.9	317.8	325.3	331.0	335.6	339.1	339.6
70°	240.4	255.3	269.1	282.8	294.3	305.2	313.3	319.0	324.2	326.5	327.6
72.5°	226.6	242.1	256.5	270.2	281.7	292.6	301.2	306.9	312.1	315.0	315.5
75°	213.4	228.9	244.4	257.6	269.7	280.6	289.2	295.5	300.1	302.9	304.1
77.5°	200.2	216.3	231.8	245.0	257.6	268.5	276.0	283.4	288.0	291.5	291.5
80°	187.0	203.7	219.7	232.9	245.6	255.3	263.9	271.4	276.0	279.4	279.4
82.5°	175.6	191.6	207.1	220.3	232.9	243.8	252.4	259.3	264.5	266.8	267.4
85°	162.4	180.2	194.5	208.8	220.9	231.2	239.8	247.3	251.9	254.2	255.3
87.5°	151.5	168.7	184.2	196.8	208.8	219.2	228.9	235.2	239.8	242.7	243.8
90°	141.1	157.8	173.3	185.9	198.5	208.3	217.4	223.8	228.9	231.2	232.4
92.5°	132.0	148.6	163.5	176.1	188.2	199.1	207.7	214.0	218.6	220.9	222.6
95°	123.4	139.4	153.8	167.5	179.0	188.8	197.9	204.2	209.4	211.1	212.9
97.5°	114.7	130.2	144.6	157.8	169.8	179.0	187.6	193.9	197.9	200.8	202.5
100°	107.3	122.2	136.0	148.6	160.1	168.7	177.9	183.6	187.6	189.9	192.2
102.5°	99.3	114.2	127.4	139.4	151.5	159.5	168.1	173.8	177.3	181.3	181.3
105°	92.4	106.1	119.3	130.8	141.1	150.9	158.3	164.1	168.1	171.0	171.0
107.5°	84.9	98.7	111.3	123.4	133.1	142.3	149.2	154.3	158.9	160.6	162.4
110°	79.2	91.2	103.8	115.3	124.5	133.1	140.0	145.7	149.7	151.5	152.6

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CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	72.3	84.9	96.4	107.3	116.5	124.5	131.4	136.0	140.0	142.3	142.9
115°	66.6	78.6	88.9	99.3	109.0	115.9	122.2	126.8	130.8	132.5	133.7
117.5°	61.4	72.3	82.6	91.2	100.4	107.9	114.2	118.2	121.6	123.9	125.1
120°	56.2	66.6	75.7	84.3	92.9	99.8	105.6	109.6	113.6	115.3	115.3
122.5°	51.1	60.8	69.4	77.5	85.5	91.8	98.1	101.5	105.0	106.7	106.7
125°	46.5	55.7	63.7	71.1	78.6	84.3	89.5	93.5	97.0	98.1	98.1
127.5°	41.9	50.5	57.9	64.8	71.1	76.9	82.0	86.1	88.9	90.1	90.1
130°	37.9	45.3	52.2	59.1	65.4	70.0	75.2	78.6	80.3	82.0	82.6
132.5°	33.8	40.7	47.0	52.8	59.1	63.7	67.7	71.1	72.9	74.6	75.2
135°	29.8	36.1	41.9	47.6	52.8	57.4	60.8	63.7	66.0	67.1	67.7
137.5°	25.2	32.1	37.3	41.9	47.6	51.1	55.1	56.8	59.1	60.2	60.2
140°	21.2	26.4	32.1	36.7	41.3	44.8	48.2	51.1	52.8	53.4	53.4
142.5°	17.2	21.8	26.4	32.1	36.1	39.0	42.5	44.8	45.9	46.5	47.0
145°	13.8	17.2	21.2	26.4	31.0	34.4	36.1	38.4	39.6	40.2	40.7
147.5°	10.3	13.8	17.2	20.7	25.2	28.7	30.4	32.7	33.8	34.4	34.4
150°	8.0	10.3	12.6	16.1	19.5	23.5	25.8	27.5	28.1	28.7	28.7
152.5°	5.7	8.0	9.8	12.0	14.3	17.8	21.2	22.4	22.9	23.5	23.5
155°	4.0	5.7	6.9	8.6	10.3	13.2	16.1	17.8	18.4	18.9	18.9
157.5°	2.9	4.0	4.6	6.3	7.5	8.6	10.9	13.8	14.3	14.3	14.3
160°	1.7	2.3	2.9	4.0	4.6	5.7	6.9	8.6	10.3	10.3	10.3
162.5°	1.1	1.7	1.7	2.3	2.3	3.4	4.0	4.6	6.3	6.9	6.9
165°	0.6	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.9	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: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	542.7	543.9	543.3	543.3	543.3	544.5	543.3	538.2	539.3	540.5	541.6
5°	542.2	542.7	542.7	542.2	542.2	543.3	542.2	537.0	538.2	539.3	539.9
7.5°	539.9	540.5	540.5	540.5	539.9	541.0	539.3	534.7	534.7	535.9	536.4
10°	537.0	538.2	537.6	537.0	537.0	537.0	535.9	530.7	530.7	531.3	531.8
12.5°	533.6	533.6	533.6	533.0	532.4	532.4	531.3	526.1	525.5	526.7	526.1
15°	529.0	530.1	529.0	528.4	527.3	527.3	525.5	520.4	519.2	519.8	519.2
17.5°	525.0	525.5	524.4	523.2	522.1	521.5	519.8	514.1	512.3	512.9	511.8
20°	520.9	520.9	519.8	518.6	516.9	515.2	512.9	507.2	504.3	504.3	502.0
22.5°	515.8	515.8	514.6	512.9	511.2	508.9	506.6	500.9	496.3	495.1	493.4
25°	510.0	509.5	508.9	507.2	503.7	501.4	499.1	492.8	487.7	485.4	482.5
27.5°	503.2	503.2	501.4	499.7	496.3	493.4	490.5	484.8	477.9	475.0	471.0
30°	495.7	495.7	494.0	491.7	488.2	484.8	481.4	474.5	467.6	463.6	459.0
32.5°	488.2	487.7	485.9	483.7	480.2	475.0	472.2	465.3	457.3	452.7	446.4
35°	479.1	478.5	476.8	473.9	469.3	465.3	460.7	454.4	445.2	439.5	432.6
37.5°	469.9	469.3	468.2	464.1	459.6	455.0	449.2	442.9	434.3	426.9	420.0
40°	460.7	460.1	457.8	455.0	449.2	443.5	437.8	431.4	422.3	413.7	406.2
42.5°	450.9	450.4	447.5	444.1	437.8	432.0	425.1	418.2	409.1	398.7	391.3
45°	441.2	440.0	437.2	433.2	426.3	420.0	413.1	405.1	395.9	386.1	376.4
47.5°	430.9	429.1	426.3	420.5	414.8	407.9	399.9	391.3	382.1	371.2	360.9
50°	419.4	418.2	414.8	409.6	402.8	395.9	386.7	378.1	367.2	356.9	344.2
52.5°	408.5	406.2	403.3	397.6	390.7	383.2	373.5	363.2	352.3	342.5	329.3
55°	397.0	395.9	391.9	387.3	378.7	370.1	360.9	350.0	337.9	326.5	313.8
57.5°	386.1	383.8	380.4	374.1	366.6	358.0	348.3	336.8	323.6	311.5	297.8
60°	375.2	371.8	367.8	362.0	354.0	344.8	334.5	322.4	309.2	296.0	281.7
62.5°	363.2	360.3	355.7	350.0	341.9	332.2	321.3	308.7	296.0	282.3	266.8
65°	351.1	348.3	343.7	337.9	329.9	319.0	307.5	294.9	280.6	267.4	250.7
67.5°	339.1	336.2	331.0	324.7	316.7	306.4	294.3	281.1	266.8	252.4	235.2
70°	327.0	323.6	319.0	312.1	304.1	293.2	281.1	267.4	253.0	237.5	220.3
72.5°	315.0	312.1	306.4	300.1	291.5	280.6	268.5	254.7	239.8	223.8	206.5
75°	302.9	299.5	295.5	288.0	278.8	268.5	255.9	242.1	226.0	210.6	192.8
77.5°	290.9	288.0	282.8	275.4	266.8	255.9	243.3	229.5	213.4	197.4	178.4
80°	278.8	275.4	271.4	264.5	254.7	243.8	230.6	216.9	200.8	184.2	165.2
82.5°	266.8	263.3	258.8	251.9	242.7	231.8	219.2	204.2	188.2	171.0	153.2
85°	254.7	251.9	246.7	239.8	230.1	219.2	206.5	193.3	176.1	158.9	141.1
87.5°	242.7	239.8	234.7	227.8	218.6	207.7	195.1	181.3	164.7	148.6	129.1
90°	231.2	228.9	223.8	216.9	207.7	196.8	185.3	170.4	154.3	138.3	119.9
92.5°	220.9	218.6	214.0	207.1	199.1	187.0	175.6	161.2	145.2	128.5	110.7
95°	211.7	208.8	204.2	197.9	188.2	177.9	166.4	152.0	136.5	119.9	102.7
97.5°	201.4	198.5	193.9	187.0	179.0	168.1	156.6	142.9	127.4	111.9	94.7
100°	191.1	188.2	183.0	177.3	169.2	158.3	147.4	133.7	119.3	104.4	87.8
102.5°	180.7	177.9	173.3	167.5	159.5	149.7	138.8	125.6	111.3	96.4	80.9
105°	171.0	168.1	163.5	157.8	150.3	140.6	129.1	117.6	103.8	89.5	74.6
107.5°	161.2	158.3	154.3	148.6	141.1	132.0	121.1	109.0	96.4	82.6	68.3
110°	151.5	149.2	144.6	139.4	132.0	122.8	113.0	101.5	88.9	76.3	62.5

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.3	140.0	135.4	129.7	123.4	114.7	105.0	94.1	82.0	70.0	56.8
115°	133.1	130.2	126.2	121.1	114.7	106.7	97.5	87.8	75.7	64.3	52.2
117.5°	123.9	121.6	117.6	112.5	106.7	98.7	90.1	80.9	69.4	58.5	47.6
120°	114.7	113.0	109.0	104.4	98.7	91.2	83.2	74.0	63.7	53.4	43.0
122.5°	106.1	104.4	100.4	96.4	90.6	83.8	76.3	67.7	58.5	48.8	39.6
125°	98.1	95.8	92.4	88.4	83.2	76.9	69.4	61.4	52.8	44.2	35.6
127.5°	89.5	87.8	85.5	80.9	75.7	70.0	63.1	56.2	48.2	40.2	32.1
130°	82.6	80.3	77.5	74.0	69.4	63.7	57.4	50.5	43.6	36.1	28.1
132.5°	74.6	72.3	70.0	66.6	62.5	57.4	51.6	45.3	39.0	32.1	25.2
135°	67.1	65.4	63.1	59.7	55.7	51.6	45.9	40.2	34.4	28.1	22.4
137.5°	60.2	58.5	56.2	53.9	49.9	45.9	40.7	35.6	30.4	24.7	19.5
140°	53.4	52.2	49.9	47.6	44.2	40.2	35.6	31.0	26.4	21.2	16.6
142.5°	46.5	45.3	43.6	41.3	38.4	35.0	31.0	27.0	22.4	18.4	14.3
145°	40.2	39.6	37.9	35.6	33.3	29.8	26.4	22.9	18.9	15.5	11.5
147.5°	33.8	33.3	32.1	30.4	28.1	25.2	22.4	18.9	16.1	12.6	9.2
150°	28.1	27.5	27.0	24.7	23.5	20.7	18.4	15.5	13.2	9.8	7.5
152.5°	22.9	22.9	21.8	20.1	18.9	16.6	14.9	12.6	10.3	8.0	5.7
155°	18.4	17.8	17.2	16.1	14.9	13.2	11.5	9.8	8.0	5.7	4.0
157.5°	14.3	13.8	13.2	12.0	10.9	10.3	8.6	6.9	5.2	4.0	2.9
160°	10.3	9.8	9.2	8.6	8.0	6.9	5.7	4.6	3.4	2.3	1.7
162.5°	6.9	6.3	6.3	5.7	5.2	4.0	3.4	2.9	2.3	1.7	1.1
165°	3.4	3.4	2.9	2.9	2.3	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

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	543.9	543.9	543.9	543.9	543.9	543.9	543.9
2.5°	541.0	541.0	543.3	542.7	541.0	544.5	548.5
5°	539.3	539.3	541.0	541.0	539.3	542.7	546.2
7.5°	536.4	535.9	537.6	537.6	535.3	538.2	542.2
10°	531.3	530.7	532.4	532.4	530.1	533.0	536.4
12.5°	525.5	524.4	526.1	525.5	523.2	526.1	529.6
15°	518.1	517.5	518.6	517.5	515.2	518.1	521.5
17.5°	510.6	508.9	509.5	509.5	505.5	508.3	511.2
20°	500.9	498.6	499.1	498.6	495.7	497.4	500.9
22.5°	491.1	487.7	487.7	487.1	483.7	485.9	488.8
25°	479.1	475.0	475.0	474.5	470.5	472.2	475.0
27.5°	467.0	463.0	461.3	460.7	456.7	456.7	460.7
30°	454.4	448.7	447.5	445.8	441.8	441.8	445.2
32.5°	442.3	434.3	432.0	429.7	425.7	425.1	429.1
35°	426.3	420.0	416.0	413.7	409.1	407.9	411.4
37.5°	413.1	405.1	399.3	396.4	391.9	390.1	394.7
40°	398.7	390.1	382.7	381.0	374.1	371.8	375.8
42.5°	382.7	373.5	366.0	362.6	357.4	355.1	355.7
45°	366.6	356.9	348.8	344.2	339.1	335.1	337.4
47.5°	350.0	341.4	331.6	324.7	318.4	315.5	316.7
50°	333.3	323.0	313.8	306.4	298.9	295.5	297.8
52.5°	316.7	305.8	295.5	287.4	278.8	275.4	276.0
55°	300.6	289.2	277.1	268.5	260.5	255.3	254.2
57.5°	284.6	271.9	259.3	249.6	239.2	234.7	232.9
60°	267.4	254.2	241.0	229.5	218.6	213.4	211.1
62.5°	251.3	236.9	222.0	210.0	199.1	192.2	190.5
65°	235.8	219.2	204.2	190.5	178.4	171.0	168.7
67.5°	219.2	202.0	185.9	171.0	159.5	149.7	148.6
70°	203.7	185.3	167.5	152.0	139.4	129.7	125.1
72.5°	188.2	169.2	150.9	134.3	118.2	109.0	105.6
75°	173.3	153.8	134.3	117.0	99.3	88.4	84.9
77.5°	159.5	139.4	118.8	99.8	83.2	69.4	64.8
80°	146.3	125.6	103.8	84.3	66.6	51.6	46.5
82.5°	132.5	113.0	90.6	70.0	51.6	36.1	29.8
85°	120.5	101.0	78.6	57.9	39.6	22.9	16.1
87.5°	110.7	89.5	69.4	48.8	29.8	13.2	4.6
90°	101.0	80.3	60.2	40.2	22.4	7.5	0.6
92.5°	92.4	72.9	52.8	34.4	17.2	5.2	0.6
95°	84.3	65.4	46.5	28.7	13.8	3.4	0.6
97.5°	76.9	59.1	41.3	24.7	11.5	2.9	0.6
100°	70.6	53.4	36.7	21.8	9.8	2.3	0.6
102.5°	64.3	48.2	32.7	18.9	8.6	1.7	0.6
105°	59.1	43.6	29.3	17.2	7.5	1.7	0.6
107.5°	53.9	39.6	26.4	14.9	6.3	1.1	0.6
110°	48.8	36.1	23.5	13.2	5.7	1.1	0.6

TEST NUMBER: P1213736

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	44.8	32.7	21.2	12.0	4.6	1.1	0.6
115°	40.7	29.3	18.9	10.3	4.0	0.6	0.6
117.5°	36.7	26.4	16.6	9.2	3.4	0.6	0.6
120°	33.3	23.5	14.9	8.0	2.9	0.6	0.6
122.5°	29.8	21.2	13.2	6.9	2.3	0.6	0.6
125°	27.0	18.9	11.5	5.7	1.7	0.6	0.6
127.5°	24.1	16.6	10.3	5.2	1.7	0.6	0.6
130°	21.2	14.9	8.6	4.0	1.1	0.6	0.6
132.5°	18.9	12.6	7.5	3.4	1.1	0.6	0.6
135°	16.6	10.9	6.3	2.3	1.1	0.6	0.6
137.5°	14.3	9.2	5.2	1.7	0.6	0.6	0.6
140°	12.0	8.0	4.0	1.7	0.6	0.6	0.6
142.5°	10.3	6.3	2.9	1.1	0.6	0.6	0.6
145°	8.0	5.2	2.3	1.1	0.6	0.6	0.6
147.5°	6.3	4.0	1.7	1.1	0.6	0.6	0.6
150°	4.6	2.9	1.7	0.6	0.6	0.6	0.6
152.5°	3.4	2.3	1.1	0.6	0.6	0.6	0.6
155°	2.3	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)