

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: P1213743

Luminaire Tested: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213743
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-LD5-30SL-LW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

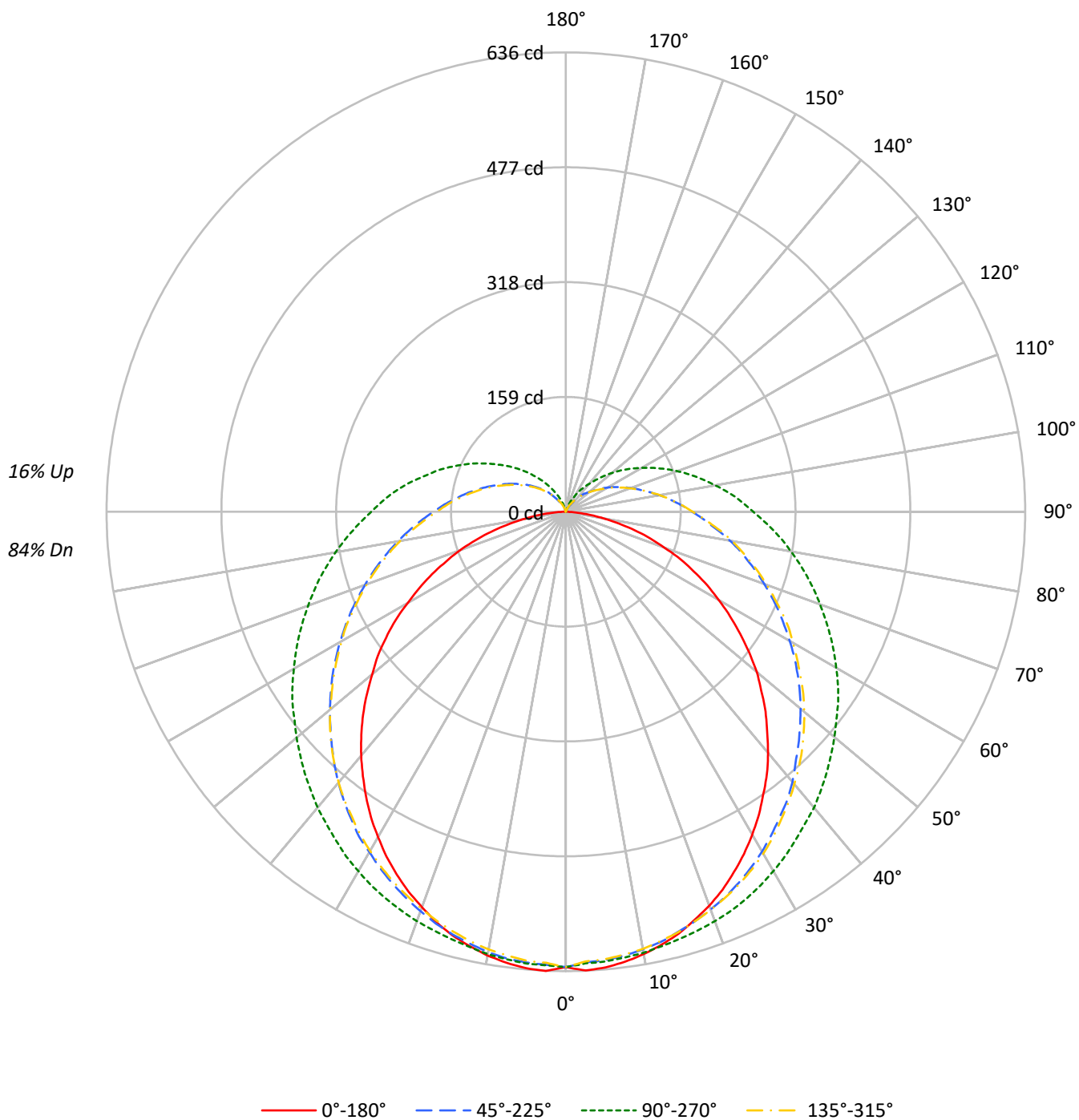
Lumens per Lamp: N/A
Luminaire Lumens: 2739.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 25
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°	5094	5094	5094	5094
5°	5122	4910	5132	4931
10°	5074	4770	5091	4786
15°	5015	4651	5038	4656
20°	4937	4564	4954	4564
25°	4839	4486	4869	4481
30°	4730	4407	4766	4407
35°	4603	4332	4654	4338
40°	4478	4289	4532	4289
45°	4333	4244	4400	4249
50°	4183	4217	4240	4228
55°	3973	4221	4099	4239
60°	3752	4234	3874	4259
65°	3503	4277	3659	4319
70°	3155	4355	3401	4416
75°	2751	4497	3011	4584
80°	2131	4707	2419	4817
85°	1271	5047	1592	5186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 5797 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	2.2
10°-20°	171.6	6.3
20°-30°	263.2	9.6
30°-40°	324.7	11.9
40°-50°	352.2	12.9
50°-60°	347.2	12.7
60°-70°	313.9	11.5
70°-80°	261.5	9.5
80°-90°	202.5	7.4
90°-100°	153.6	5.6
100°-110°	113.7	4.1
110°-120°	79.1	2.9
120°-130°	50.5	1.8
130°-140°	28.3	1.0
140°-150°	12.9	0.5
150°-160°	4.0	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	494.5	18.1
0°-40°	819.2	29.9
0°-60°	1518.6	55.4
0°-90°	2296.5	83.8
90°-120°	346.3	12.6
90°-150°	438.0	16.0
90°-180°	443.0	16.2
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	630	630	630	630	630	
5°	633	625	634	628	633	60
15°	604	612	607	612	604	170
25°	551	591	554	590	551	254
35°	477	555	482	555	477	299
45°	391	511	397	511	391	301
55°	295	460	304	462	295	264
65°	196	404	204	408	196	194
75°	98	346	108	352	98	104
85°	19	288	23	296	19	23
90°	1	259	1	269	1	1
95°	1	235	1	247	1	1
105°	1	187	1	198	1	1
115°	1	142	1	155	1	1
125°	1	102	1	114	1	1
135°	1	66	1	78	1	1
145°	1	39	1	47	1	0
155°	1	16	1	22	1	0
165°	1	3	1	4	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°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	635.8	635.8	635.1	633.8	634.4	636.4	635.1	631.8	629.8	624.5	625.8
5°	633.1	633.1	632.4	631.1	631.8	634.4	633.1	630.4	627.8	623.1	625.1
7.5°	628.4	628.4	627.8	626.4	627.8	630.4	629.1	626.4	624.5	619.8	621.8
10°	621.8	622.5	621.8	619.8	622.5	625.1	624.5	621.1	619.1	615.1	617.1
12.5°	613.8	614.5	613.8	613.1	614.5	618.5	617.1	614.5	613.1	609.8	611.8
15°	604.5	605.2	603.8	603.8	605.2	609.2	609.2	606.5	605.2	601.8	605.8
17.5°	592.5	593.2	592.5	592.5	593.9	597.9	598.5	597.2	595.9	594.5	598.5
20°	580.6	579.9	579.9	579.2	581.9	587.9	587.2	587.2	585.9	585.9	590.5
22.5°	566.6	566.6	565.9	565.9	569.3	574.6	574.6	575.9	574.6	577.2	581.2
25°	550.6	551.3	550.6	552.0	554.6	560.6	561.3	563.3	563.9	566.6	571.3
27.5°	534.0	534.7	534.0	535.3	540.0	544.7	548.0	550.6	551.3	555.3	561.3
30°	516.1	516.1	516.7	518.0	523.4	530.7	533.3	536.7	536.7	543.3	549.3
32.5°	497.4	497.4	497.4	500.1	506.1	514.7	518.0	522.0	523.4	530.0	536.7
35°	476.8	477.5	477.5	479.5	487.5	496.1	500.8	505.4	508.1	516.1	522.7
37.5°	457.5	458.9	456.9	459.5	470.8	478.1	483.5	488.1	492.8	503.4	508.7
40°	435.6	436.9	436.3	441.6	450.9	460.2	466.2	470.8	477.5	488.1	494.1
42.5°	412.3	413.6	415.0	421.0	430.9	440.2	447.6	453.5	461.5	470.8	480.8
45°	391.0	391.0	393.0	400.3	411.0	421.0	429.6	436.3	445.6	455.5	465.5
47.5°	367.1	367.8	370.4	379.1	390.4	402.3	410.3	419.0	428.9	439.6	450.9
50°	345.1	345.1	349.1	358.4	369.1	382.4	391.0	401.0	411.6	424.3	435.6
52.5°	319.9	321.2	327.2	335.8	349.8	361.8	371.7	382.4	395.0	408.3	421.0
55°	294.6	297.3	301.9	313.9	328.5	339.8	351.8	365.1	377.1	391.7	406.3
57.5°	270.0	272.0	279.3	291.3	306.6	320.5	333.2	345.8	360.4	375.1	390.4
60°	244.7	247.4	256.0	268.0	284.6	299.3	313.9	327.2	342.5	357.8	373.7
62.5°	220.8	222.8	232.8	246.7	263.3	279.3	293.9	309.9	326.5	341.2	357.1
65°	195.5	198.8	210.1	222.8	242.1	258.0	274.7	291.9	309.2	325.2	340.5
67.5°	172.2	174.2	186.2	200.8	220.1	238.1	255.4	274.0	291.9	308.6	323.9
70°	145.0	151.6	163.6	178.9	199.5	218.1	236.7	256.0	275.3	292.6	307.2
72.5°	122.4	127.7	141.0	157.6	177.6	199.5	218.8	239.4	258.7	276.6	291.9
75°	98.4	103.7	119.0	137.7	158.3	181.6	201.5	222.8	242.7	260.7	276.6
77.5°	75.1	81.8	98.4	117.7	140.3	164.3	184.9	206.2	226.8	246.1	262.0
80°	53.9	61.2	79.1	101.1	123.0	147.0	169.6	190.9	211.5	230.8	247.4
82.5°	34.6	42.6	61.8	83.8	107.1	131.0	154.3	175.6	196.2	215.5	232.8
85°	18.6	27.3	47.2	69.2	92.4	116.4	139.7	162.3	182.2	200.2	218.8
87.5°	5.3	16.0	35.2	57.2	81.1	103.1	125.7	148.3	168.2	187.5	204.2
90°	0.7	9.3	26.6	47.2	70.5	91.8	114.4	135.7	155.6	174.9	191.5
92.5°	0.7	6.0	20.6	39.2	60.5	82.5	105.1	125.7	144.3	163.6	180.2
95°	0.7	4.7	16.6	33.3	53.2	73.8	95.1	115.0	134.3	152.3	168.9
97.5°	0.7	3.3	13.3	28.6	46.6	65.8	86.5	106.4	125.0	142.3	157.6
100°	0.7	2.7	10.6	24.6	40.6	59.2	77.8	97.1	115.0	131.7	147.6
102.5°	0.7	2.0	9.3	20.6	35.9	52.5	70.5	88.4	105.7	121.7	137.7
105°	0.7	2.0	8.0	18.0	31.9	47.2	63.8	81.1	97.1	112.4	127.0
107.5°	0.7	1.3	6.7	15.3	27.9	42.6	57.9	74.5	89.1	103.7	117.7
110°	0.7	1.3	5.3	14.0	24.6	37.9	52.5	67.8	81.8	95.8	109.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	1.3	4.7	12.0	21.3	33.9	47.2	61.2	74.5	88.4	100.4
115°	0.7	1.3	4.0	10.6	20.0	29.3	42.6	55.2	68.5	81.1	92.4
117.5°	0.7	1.3	3.3	8.6	17.3	26.6	37.2	49.9	61.8	73.8	84.5
120°	0.7	1.3	2.7	8.0	15.3	23.9	33.3	44.6	55.9	67.2	78.5
122.5°	0.7	0.7	2.7	6.7	13.3	21.3	30.6	39.2	49.9	60.5	70.5
125°	0.7	0.7	2.7	6.0	11.3	19.3	27.3	35.2	44.6	53.9	62.5
127.5°	0.7	0.7	2.0	4.7	10.0	16.6	23.9	32.6	39.2	47.9	56.5
130°	0.7	0.7	2.0	4.0	8.6	14.0	21.3	28.6	36.6	42.6	49.9
132.5°	0.7	0.7	2.0	3.3	6.7	11.3	18.0	24.6	31.9	38.6	44.6
135°	0.7	0.7	1.3	2.7	5.3	9.3	14.6	20.6	27.9	34.6	40.6
137.5°	0.7	0.7	1.3	2.7	4.0	8.0	11.3	16.6	23.3	29.3	35.2
140°	0.7	0.7	1.3	2.0	3.3	6.0	9.3	13.3	18.6	23.9	30.6
142.5°	0.7	0.7	0.7	2.0	2.7	4.7	7.3	10.6	14.6	19.3	24.6
145°	0.7	0.7	0.7	2.0	2.7	3.3	6.0	8.6	11.3	14.6	19.3
147.5°	0.7	0.7	0.7	1.3	2.0	2.7	4.7	6.7	8.6	11.3	14.0
150°	0.7	0.7	0.7	1.3	2.0	2.7	3.3	4.7	6.7	9.3	11.3
152.5°	0.7	0.7	0.7	1.3	1.3	2.0	2.7	3.3	4.7	6.7	8.0
155°	0.7	0.7	0.7	0.7	1.3	2.0	2.7	2.7	3.3	4.7	6.0
157.5°	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	2.7	2.7	4.0
160°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	2.0	2.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.0
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	625.8	626.4	628.4	628.4	627.1	627.1	626.4	625.8	626.4	627.8	627.8
5°	624.5	625.1	627.1	627.8	626.4	625.8	625.8	625.1	625.8	627.1	627.1
7.5°	621.8	622.5	624.5	625.1	623.8	623.8	623.1	622.5	623.8	624.5	624.5
10°	617.8	618.5	621.1	621.8	621.1	620.5	620.5	619.8	620.5	621.8	621.8
12.5°	612.5	613.8	617.1	617.1	617.1	616.5	616.5	615.8	616.5	617.8	617.1
15°	606.5	609.2	611.8	613.1	613.1	613.1	612.5	611.8	613.1	613.8	613.1
17.5°	599.8	603.2	607.2	608.5	608.5	609.2	608.5	607.8	609.2	609.2	608.5
20°	593.2	596.5	600.5	601.8	603.2	603.8	603.8	603.2	603.8	604.5	603.8
22.5°	584.6	588.5	593.2	595.2	596.5	597.9	597.9	597.9	598.5	599.2	597.9
25°	575.2	579.9	585.2	587.2	589.9	590.5	591.2	591.2	591.9	592.5	590.5
27.5°	565.3	570.6	575.9	579.2	581.2	582.6	582.6	583.2	583.9	584.6	582.6
30°	553.3	561.3	565.9	568.6	571.3	573.2	573.9	574.6	575.2	575.9	573.9
32.5°	542.7	549.3	555.3	558.6	561.9	564.6	565.3	565.3	566.6	566.6	564.6
35°	530.0	538.0	544.0	547.3	551.3	553.3	554.6	554.6	556.0	556.0	554.0
37.5°	517.4	525.4	532.0	536.0	540.7	543.3	544.0	544.0	545.3	545.3	542.7
40°	504.1	512.7	520.0	524.7	528.7	532.0	532.7	534.7	534.7	534.0	531.3
42.5°	490.8	498.8	506.7	512.1	517.4	520.7	522.0	522.7	522.7	522.0	520.0
45°	476.2	485.5	492.8	499.4	504.7	508.1	510.1	510.7	510.7	509.4	507.4
47.5°	462.2	471.5	478.8	486.1	491.4	495.4	497.4	498.1	497.4	496.8	494.8
50°	447.6	458.2	465.5	472.8	478.1	481.5	484.8	485.5	484.8	484.1	480.1
52.5°	432.3	443.6	451.5	458.9	464.8	468.8	471.5	472.2	472.2	470.8	468.2
55°	417.0	426.9	436.9	444.9	451.5	455.5	458.9	460.2	458.9	457.5	454.2
57.5°	403.0	412.3	422.3	430.9	437.6	442.9	445.6	446.9	445.6	443.6	440.2
60°	386.4	396.4	407.7	415.6	423.0	428.3	429.6	432.3	430.9	428.9	425.6
62.5°	370.4	382.4	392.4	402.3	408.3	414.3	417.0	418.3	417.0	415.0	411.6
65°	353.8	367.1	377.1	387.0	393.7	399.7	403.0	403.7	402.3	400.3	397.0
67.5°	338.5	351.1	361.8	372.4	378.4	384.4	387.7	389.0	387.7	385.0	381.7
70°	323.2	335.8	348.5	356.4	363.8	370.4	372.4	374.4	373.1	370.4	366.4
72.5°	307.9	321.2	333.8	341.8	349.8	355.8	358.4	360.4	359.1	356.4	351.8
75°	291.9	305.9	318.5	327.2	335.2	341.2	343.8	345.8	344.5	341.8	336.5
77.5°	277.3	291.3	303.2	312.6	320.5	325.9	330.5	331.2	329.8	327.2	321.9
80°	262.0	276.0	288.6	297.9	305.9	311.2	314.6	316.5	315.2	312.6	307.2
82.5°	248.7	261.4	274.0	283.3	291.3	297.9	300.6	302.6	301.9	297.9	293.9
85°	234.1	248.7	258.7	268.7	276.6	283.3	285.3	288.0	287.3	284.0	278.6
87.5°	219.5	234.1	246.1	256.0	263.3	268.7	272.0	273.3	272.7	269.3	263.3
90°	207.5	220.8	232.8	243.4	249.4	255.4	258.7	259.4	259.4	255.4	250.7
92.5°	196.2	208.8	220.8	230.8	238.1	243.4	246.1	247.4	246.7	243.4	238.1
95°	183.5	197.5	208.8	218.8	226.1	231.4	234.1	235.4	234.8	231.4	226.1
97.5°	172.9	185.5	196.8	206.2	213.5	218.8	221.5	222.8	222.8	219.5	214.1
100°	162.3	174.9	185.5	194.9	201.5	206.8	209.5	210.1	209.5	206.8	201.5
102.5°	151.6	163.6	174.2	182.9	190.2	194.9	197.5	198.2	198.2	194.9	189.5
105°	141.0	153.0	162.9	172.2	178.2	182.9	184.9	186.9	186.2	183.5	178.2
107.5°	131.0	143.0	152.3	160.9	166.9	171.6	173.6	175.6	174.9	172.2	166.9
110°	121.7	133.0	141.6	150.3	155.6	160.3	163.6	164.3	162.9	160.3	155.6

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	113.1	123.0	131.7	139.7	145.6	149.0	151.6	153.0	151.6	149.0	145.6
115°	103.7	113.7	122.4	129.7	135.0	139.0	141.0	142.3	141.0	138.3	135.0
117.5°	95.1	104.4	113.1	120.4	125.0	128.3	130.3	131.7	130.3	128.3	125.0
120°	87.8	95.8	103.7	110.4	115.7	118.4	120.4	121.7	121.0	118.4	115.0
122.5°	79.1	87.8	95.1	101.7	106.4	109.1	110.4	111.7	111.1	109.1	105.7
125°	71.8	79.1	86.5	92.4	97.1	99.8	101.1	102.4	101.7	99.8	95.8
127.5°	63.8	71.8	77.8	83.8	87.1	91.1	91.8	93.1	92.4	90.4	87.1
130°	57.9	63.8	69.8	75.1	79.1	81.8	83.1	83.8	82.5	81.1	77.8
132.5°	50.5	57.2	62.5	67.2	69.8	72.5	73.8	74.5	74.5	72.5	69.8
135°	45.2	49.9	54.5	59.2	61.8	64.5	65.8	66.5	65.8	64.5	61.8
137.5°	40.6	44.6	47.9	51.9	55.2	56.5	57.9	57.9	57.2	56.5	54.5
140°	35.2	39.9	43.2	45.9	48.5	49.2	50.5	50.5	49.9	49.2	47.9
142.5°	29.9	33.9	37.2	40.6	42.6	43.9	44.6	45.2	44.6	43.9	41.9
145°	23.9	28.6	31.9	33.9	36.6	37.2	37.9	38.6	37.9	37.2	35.2
147.5°	18.6	22.6	25.9	28.6	30.6	31.3	31.9	32.6	31.9	30.6	29.9
150°	13.3	16.6	20.6	23.3	24.6	25.9	25.9	25.9	26.6	25.3	23.9
152.5°	10.6	12.0	14.6	17.3	19.3	20.0	20.6	20.6	20.0	20.0	18.6
155°	7.3	8.6	10.6	12.6	14.6	15.3	16.0	16.0	15.3	15.3	14.6
157.5°	4.7	6.0	7.3	8.6	10.6	11.3	12.0	12.0	12.0	11.3	10.6
160°	2.7	3.3	4.0	5.3	6.7	7.3	8.0	8.0	8.0	8.0	7.3
162.5°	2.0	2.0	2.0	2.7	3.3	4.0	4.7	4.7	4.7	4.7	4.0
165°	1.3	1.3	1.3	1.3	1.3	2.0	2.7	2.7	2.7	2.7	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	627.1	627.1	627.8	626.4	622.5	623.1	623.1	625.8	627.1	627.8	631.1
5°	625.8	625.8	627.1	625.1	621.8	621.8	621.8	624.5	625.1	626.4	629.1
7.5°	623.8	623.8	624.5	622.5	618.5	618.5	617.8	620.5	621.8	622.5	625.1
10°	620.5	620.5	621.1	619.1	614.5	614.5	613.8	615.8	616.5	617.8	619.8
12.5°	615.8	615.8	615.8	613.8	609.2	608.5	607.8	609.8	609.8	610.5	612.5
15°	611.8	610.5	610.5	608.5	603.8	602.5	601.2	601.8	603.2	602.5	603.8
17.5°	607.2	605.8	604.5	602.5	596.5	594.5	593.2	593.9	593.2	592.5	593.9
20°	601.8	599.8	599.2	595.9	589.9	586.5	583.9	582.6	583.2	581.2	581.9
22.5°	595.9	593.2	591.9	587.9	581.9	577.9	574.6	571.9	571.3	568.6	569.3
25°	588.5	585.2	583.2	579.9	573.2	568.6	564.6	560.6	558.6	555.3	554.6
27.5°	579.9	576.6	573.9	570.6	563.9	558.0	553.3	548.0	545.3	541.3	539.3
30°	571.3	567.3	563.3	560.6	553.3	546.6	539.3	534.7	530.7	526.0	522.7
32.5°	560.6	556.6	552.6	548.6	542.0	534.0	528.0	520.7	516.1	510.7	506.7
35°	550.0	544.7	540.7	535.3	529.4	520.0	512.7	505.4	499.4	493.4	488.8
37.5°	538.0	534.0	528.0	523.4	516.1	506.7	498.8	489.5	484.1	476.2	470.2
40°	526.7	522.0	516.1	510.1	502.8	492.1	483.5	472.8	466.8	457.5	451.5
42.5°	515.4	508.7	502.8	496.1	488.1	478.1	467.5	456.9	448.9	440.2	431.6
45°	502.8	495.4	488.1	480.8	472.8	462.9	451.5	440.2	430.3	422.3	411.6
47.5°	489.5	482.1	473.5	465.5	456.9	446.9	434.9	423.0	412.3	403.0	391.7
50°	476.2	468.8	459.5	450.9	440.9	430.9	418.3	404.3	393.0	381.1	371.1
52.5°	462.2	454.9	446.2	434.9	424.3	414.3	401.0	386.4	373.7	363.8	351.1
55°	448.2	440.9	430.9	419.6	409.0	396.4	383.7	369.1	355.1	343.1	330.5
57.5°	433.6	426.9	415.6	406.3	393.0	379.7	366.4	352.5	337.2	323.2	308.6
60°	419.0	411.6	401.0	389.7	376.4	363.1	349.1	333.8	317.9	302.6	289.3
62.5°	405.7	396.4	386.4	374.4	360.4	347.8	331.8	315.2	299.3	283.3	267.3
65°	390.4	380.4	371.1	359.1	344.5	329.8	313.9	297.3	280.0	262.7	246.7
67.5°	375.1	365.1	355.1	343.1	327.9	312.6	295.9	279.3	260.0	243.4	224.8
70°	359.8	351.8	339.2	326.5	312.6	295.9	279.3	261.4	241.4	223.4	204.2
72.5°	344.5	336.5	323.9	310.6	297.3	280.0	262.0	244.1	225.4	204.8	184.2
75°	329.8	319.9	308.6	295.9	282.0	264.0	246.1	227.4	205.5	186.2	164.9
77.5°	315.9	306.6	295.3	281.3	266.0	248.7	230.1	210.8	188.9	168.2	145.0
80°	300.6	291.3	280.0	266.0	250.7	234.1	214.1	194.2	172.9	150.3	126.4
82.5°	286.0	277.3	264.7	252.0	235.4	218.8	198.8	178.9	156.3	134.3	111.1
85°	270.7	262.0	250.0	236.7	220.8	202.8	184.2	164.3	141.6	119.0	95.8
87.5°	257.4	247.4	235.4	222.1	206.2	188.9	170.9	149.6	127.7	105.7	81.8
90°	243.4	234.1	222.1	208.8	192.9	175.6	156.9	137.0	115.7	93.1	70.5
92.5°	231.4	221.5	210.1	196.8	180.9	164.3	145.6	125.7	105.1	83.1	61.2
95°	219.5	209.5	198.8	185.5	169.6	153.0	134.3	115.0	95.1	73.8	53.2
97.5°	206.2	197.5	186.9	174.2	158.3	142.3	124.4	105.7	86.5	65.8	46.6
100°	195.5	185.5	175.6	162.3	147.6	132.3	114.4	96.4	77.8	58.5	40.6
102.5°	183.5	174.2	164.3	151.6	137.0	121.7	105.1	87.8	70.5	52.5	35.2
105°	172.2	163.6	153.0	141.0	127.0	112.4	96.4	80.5	63.8	46.6	31.3
107.5°	160.9	152.3	142.3	131.0	117.7	103.1	88.4	72.5	57.2	41.9	27.9
110°	149.6	141.6	132.3	121.0	108.4	95.1	81.1	66.5	51.2	37.2	24.6

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	139.7	131.7	122.4	111.7	99.8	87.1	73.8	59.9	45.9	33.3	21.3
115°	129.7	122.4	113.1	103.7	91.8	79.8	67.2	53.9	41.2	29.9	18.6
117.5°	119.7	112.4	103.7	94.4	83.8	72.5	60.5	47.9	37.2	26.6	16.6
120°	109.7	103.1	95.1	86.5	77.1	65.8	53.9	43.2	33.3	23.3	14.6
122.5°	100.4	94.4	87.1	79.1	69.2	58.5	48.5	39.2	29.9	20.6	12.0
125°	91.8	85.8	79.1	71.2	61.8	52.5	43.9	35.2	25.9	18.0	10.0
127.5°	83.1	77.1	70.5	63.2	55.9	47.2	39.2	31.3	23.3	16.0	8.6
130°	74.5	69.2	63.2	57.2	49.9	41.9	35.2	27.3	20.0	12.6	7.3
132.5°	65.8	61.8	56.5	50.5	43.9	37.9	30.6	23.9	17.3	11.3	6.7
135°	58.5	54.5	49.9	44.6	39.2	33.3	26.6	20.6	14.6	9.3	5.3
137.5°	51.9	48.5	43.9	39.2	34.6	28.6	23.3	17.3	12.0	8.0	4.0
140°	45.9	42.6	38.6	33.9	29.9	24.6	19.3	14.0	10.6	6.7	3.3
142.5°	39.9	36.6	33.3	29.3	25.3	20.6	16.0	12.0	8.6	5.3	3.3
145°	33.9	31.3	27.9	24.6	20.6	16.6	13.3	10.0	6.7	4.0	2.7
147.5°	27.9	25.9	22.6	20.0	16.6	13.3	10.6	8.0	5.3	3.3	2.0
150°	22.6	20.6	18.0	15.3	13.3	10.6	8.6	6.0	4.0	3.3	2.0
152.5°	17.3	16.0	14.0	12.6	10.6	8.0	6.0	4.7	3.3	2.7	1.3
155°	14.0	12.6	11.3	9.3	8.0	6.0	4.7	3.3	2.7	2.0	1.3
157.5°	10.0	9.3	8.0	6.7	5.3	4.0	3.3	3.3	2.0	1.3	0.7
160°	6.7	6.0	5.3	4.0	3.3	3.3	2.7	2.0	1.3	1.3	0.7
162.5°	4.0	3.3	3.3	3.3	2.7	2.7	2.0	1.3	1.3	0.7	0.7
165°	2.7	2.7	2.7	2.0	2.0	2.0	1.3	0.7	0.7	0.7	0.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	631.1	629.1	631.8	636.4	637.1	636.4	635.1	637.1	639.7	639.1	634.4
5°	629.8	627.1	629.8	634.4	634.4	633.8	633.1	635.1	637.8	637.1	633.1
7.5°	625.8	623.1	625.8	629.8	630.4	629.1	629.1	631.1	633.8	633.1	629.8
10°	620.5	617.8	619.1	623.8	625.1	623.8	623.8	625.8	629.1	628.4	624.5
12.5°	612.5	610.5	611.8	615.8	617.1	616.5	615.8	618.5	621.8	621.8	617.8
15°	603.8	601.2	602.5	607.2	607.8	606.5	607.2	609.2	613.1	613.1	609.8
17.5°	593.9	590.5	592.5	595.9	596.5	596.5	596.5	599.2	603.8	603.2	600.5
20°	582.6	577.9	579.2	582.6	583.9	583.9	583.9	588.5	591.9	591.9	589.2
22.5°	569.3	565.9	565.9	569.3	571.3	570.6	570.6	574.6	579.2	578.6	578.6
25°	554.0	551.3	550.0	554.0	554.6	555.3	556.6	560.6	565.9	565.9	566.6
27.5°	538.0	535.3	534.7	538.0	538.7	539.3	540.7	545.3	550.6	551.3	552.6
30°	522.7	518.7	517.4	520.0	521.4	522.0	522.0	529.4	534.0	536.0	538.7
32.5°	504.7	500.8	497.4	502.1	502.8	504.1	504.7	512.1	517.4	520.7	524.7
35°	486.8	480.1	478.8	482.1	483.5	484.1	485.5	493.4	500.8	503.4	508.7
37.5°	466.8	462.2	458.2	461.5	462.9	463.5	467.5	474.8	482.1	486.1	491.4
40°	448.2	442.2	438.9	440.9	442.2	442.9	447.6	455.5	464.2	468.8	475.5
42.5°	427.6	419.6	417.0	419.0	419.6	421.6	425.6	436.3	444.9	451.5	456.9
45°	407.0	401.0	395.0	397.0	397.7	399.0	405.0	416.3	425.6	433.6	439.6
47.5°	385.7	378.4	372.4	373.7	376.4	377.1	383.7	397.0	405.7	414.3	422.3
50°	364.4	354.5	349.8	349.8	351.1	354.5	363.1	376.4	385.7	395.7	404.3
52.5°	342.5	333.2	327.9	328.5	329.8	333.8	341.8	355.1	365.8	376.4	387.0
55°	320.5	310.6	305.2	303.9	305.2	310.6	319.9	333.8	344.5	357.1	368.4
57.5°	298.6	286.6	282.0	280.0	281.3	288.0	297.3	311.9	325.2	337.2	350.5
60°	274.7	265.3	257.4	252.7	256.0	264.7	274.7	289.9	303.9	317.2	331.8
62.5°	254.0	242.1	233.4	228.8	232.1	239.4	253.4	268.0	283.3	298.6	313.2
65°	230.8	218.8	208.8	204.2	207.5	216.1	230.1	246.1	262.7	278.0	295.3
67.5°	208.2	195.5	183.5	178.9	182.9	192.2	207.5	225.4	243.4	259.4	278.0
70°	186.2	172.2	159.6	156.3	158.9	171.6	186.2	204.2	222.8	241.4	260.7
72.5°	166.3	149.0	135.7	131.7	135.0	149.0	165.6	184.2	204.2	224.1	244.7
75°	143.0	127.0	112.4	107.7	111.7	124.4	145.0	164.9	186.2	207.5	226.8
77.5°	124.4	105.7	90.4	83.1	89.8	105.7	125.7	147.0	168.9	190.9	212.8
80°	105.1	85.8	69.2	61.2	68.5	85.8	105.7	129.0	153.6	175.6	195.5
82.5°	87.8	67.2	49.9	41.2	49.2	68.5	90.4	113.7	137.7	159.6	182.9
85°	71.8	50.5	32.6	23.3	34.6	51.9	75.1	99.1	123.7	146.3	168.9
87.5°	58.5	37.9	20.0	10.0	21.3	40.6	62.5	86.5	111.1	133.7	154.9
90°	47.9	27.3	10.6	1.3	12.6	30.6	51.9	75.1	98.4	121.7	143.0
92.5°	39.2	20.6	6.0	0.7	8.0	24.6	44.6	66.5	89.1	111.7	132.3
95°	32.6	16.0	4.0	0.7	6.0	19.3	37.9	59.2	80.5	102.4	123.0
97.5°	27.9	13.3	3.3	0.7	4.7	16.6	32.6	52.5	73.2	93.8	113.7
100°	23.9	10.6	2.7	0.7	4.0	14.0	28.6	46.6	65.8	85.8	105.1
102.5°	20.6	8.6	2.0	0.7	3.3	12.0	25.3	41.9	59.2	78.5	97.1
105°	18.0	7.3	2.0	0.7	2.7	10.6	22.6	37.2	54.5	71.8	89.8
107.5°	15.3	6.0	1.3	0.7	2.0	8.6	20.0	33.9	49.2	65.8	82.5
110°	13.3	5.3	1.3	0.7	2.0	8.0	17.3	30.6	44.6	59.9	75.8

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.3	4.0	1.3	0.7	1.3	6.7	15.3	27.3	40.6	54.5	69.8
115°	10.0	3.3	0.7	0.7	1.3	6.0	14.0	24.6	36.6	49.9	63.8
117.5°	8.0	2.7	0.7	0.7	0.7	4.7	12.0	21.9	33.3	45.9	58.5
120°	6.7	2.7	0.7	0.7	0.7	4.0	10.6	19.3	29.9	41.2	53.2
122.5°	6.0	2.0	0.7	0.7	0.7	3.3	9.3	17.3	26.6	37.2	48.5
125°	5.3	2.0	0.7	0.7	0.7	2.7	8.0	15.3	23.9	33.3	43.9
127.5°	4.0	2.0	0.7	0.7	0.7	2.0	7.3	13.3	21.3	29.9	39.2
130°	3.3	1.3	0.7	0.7	0.7	2.0	6.0	12.0	18.6	26.6	35.2
132.5°	2.7	1.3	0.7	0.7	0.7	1.3	4.7	9.3	16.0	23.3	31.3
135°	2.7	1.3	0.7	0.7	0.7	1.3	3.3	8.0	13.3	20.0	26.6
137.5°	2.7	0.7	0.7	0.7	0.7	1.3	2.7	6.0	10.6	16.0	21.9
140°	2.0	0.7	0.7	0.7	0.7	0.7	2.0	4.7	8.6	13.3	18.6
142.5°	2.0	0.7	0.7	0.7	0.7	0.7	2.0	3.3	6.7	10.6	14.6
145°	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.7	5.3	8.0	12.0
147.5°	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.0	4.0	6.7	9.3
150°	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.7	4.7	7.3
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	3.3	4.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.7	3.3
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	632.4	627.8	629.1	628.4	629.8	631.8	631.8	631.1	631.1	629.8	628.4
5°	631.1	626.4	628.4	627.8	629.1	631.1	631.1	630.4	630.4	628.4	627.8
7.5°	627.1	623.8	625.1	625.1	626.4	628.4	628.4	627.8	627.8	625.8	625.1
10°	623.1	619.1	621.1	621.1	622.5	625.1	625.1	624.5	624.5	622.5	621.8
12.5°	616.5	612.5	615.8	616.5	617.8	620.5	619.8	619.8	619.8	617.8	617.1
15°	608.5	605.8	609.2	609.8	611.8	615.1	615.1	615.1	615.1	613.1	612.5
17.5°	599.8	597.9	601.2	602.5	605.2	608.5	608.5	609.2	609.8	608.5	607.8
20°	589.9	588.5	591.9	594.5	598.5	601.8	603.2	603.8	605.2	603.8	603.2
22.5°	578.6	578.6	583.2	585.9	590.5	593.9	595.9	597.9	599.2	597.9	597.2
25°	565.9	567.9	572.6	577.2	582.6	585.9	587.9	590.5	591.9	591.2	590.5
27.5°	554.0	556.6	562.6	567.3	571.9	577.2	579.2	582.6	583.9	583.9	583.2
30°	540.0	544.0	550.6	556.0	561.9	567.3	569.9	573.2	575.2	573.9	574.6
32.5°	526.7	533.3	538.7	544.7	551.3	556.6	559.9	563.9	565.9	565.3	565.9
35°	512.1	518.7	526.0	532.0	540.0	545.3	550.0	553.3	556.0	555.3	555.3
37.5°	496.1	504.7	512.1	520.0	527.4	533.3	538.0	542.0	544.7	544.7	544.7
40°	480.8	490.1	497.4	506.7	516.1	521.4	526.7	530.7	533.3	534.0	534.7
42.5°	464.2	474.2	482.8	492.8	502.1	508.7	514.7	519.4	522.0	523.4	522.7
45°	448.9	458.2	468.2	479.5	488.1	494.8	502.1	507.4	510.1	510.7	511.4
47.5°	431.6	442.2	453.5	464.8	473.5	482.1	488.8	494.1	496.8	498.8	498.8
50°	415.0	426.3	438.9	450.9	460.2	468.8	475.5	481.5	484.8	486.1	486.8
52.5°	399.7	410.3	423.6	435.6	444.9	453.5	462.2	468.8	472.2	473.5	473.5
55°	381.1	394.4	409.0	420.3	430.3	440.2	448.9	455.5	458.9	460.9	462.2
57.5°	363.8	377.7	393.0	405.0	417.0	426.3	434.3	442.9	445.6	448.2	448.9
60°	347.1	361.1	375.7	389.0	401.0	411.0	420.3	427.6	432.3	433.6	434.9
62.5°	329.8	344.5	359.8	373.1	385.7	397.7	406.3	413.0	418.3	420.3	421.6
65°	313.2	328.5	343.8	357.8	371.1	383.1	391.7	398.3	403.7	407.0	407.7
67.5°	295.3	311.9	327.9	342.5	355.8	368.4	377.1	383.7	389.0	393.0	393.7
70°	278.6	295.9	311.9	327.9	341.2	353.8	363.1	369.8	375.7	378.4	379.7
72.5°	262.7	280.6	297.3	313.2	326.5	339.2	349.1	355.8	361.8	365.1	365.8
75°	247.4	265.3	283.3	298.6	312.6	325.2	335.2	342.5	347.8	351.1	352.5
77.5°	232.1	250.7	268.7	284.0	298.6	311.2	319.9	328.5	333.8	337.8	337.8
80°	216.8	236.1	254.7	270.0	284.6	295.9	305.9	314.6	319.9	323.9	323.9
82.5°	203.5	222.1	240.1	255.4	270.0	282.6	292.6	300.6	306.6	309.2	309.9
85°	188.2	208.8	225.4	242.1	256.0	268.0	278.0	286.6	291.9	294.6	295.9
87.5°	175.6	195.5	213.5	228.1	242.1	254.0	265.3	272.7	278.0	281.3	282.6
90°	163.6	182.9	200.8	215.5	230.1	241.4	252.0	259.4	265.3	268.0	269.3
92.5°	153.0	172.2	189.5	204.2	218.1	230.8	240.7	248.1	253.4	256.0	258.0
95°	143.0	161.6	178.2	194.2	207.5	218.8	229.4	236.7	242.7	244.7	246.7
97.5°	133.0	151.0	167.6	182.9	196.8	207.5	217.5	224.8	229.4	232.8	234.8
100°	124.4	141.6	157.6	172.2	185.5	195.5	206.2	212.8	217.5	220.1	222.8
102.5°	115.0	132.3	147.6	161.6	175.6	184.9	194.9	201.5	205.5	210.1	210.1
105°	107.1	123.0	138.3	151.6	163.6	174.9	183.5	190.2	194.9	198.2	198.2
107.5°	98.4	114.4	129.0	143.0	154.3	164.9	172.9	178.9	184.2	186.2	188.2
110°	91.8	105.7	120.4	133.7	144.3	154.3	162.3	168.9	173.6	175.6	176.9

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	83.8	98.4	111.7	124.4	135.0	144.3	152.3	157.6	162.3	164.9	165.6
115°	77.1	91.1	103.1	115.0	126.4	134.3	141.6	147.0	151.6	153.6	154.9
117.5°	71.2	83.8	95.8	105.7	116.4	125.0	132.3	137.0	141.0	143.6	145.0
120°	65.2	77.1	87.8	97.8	107.7	115.7	122.4	127.0	131.7	133.7	133.7
122.5°	59.2	70.5	80.5	89.8	99.1	106.4	113.7	117.7	121.7	123.7	123.7
125°	53.9	64.5	73.8	82.5	91.1	97.8	103.7	108.4	112.4	113.7	113.7
127.5°	48.5	58.5	67.2	75.1	82.5	89.1	95.1	99.8	103.1	104.4	104.4
130°	43.9	52.5	60.5	68.5	75.8	81.1	87.1	91.1	93.1	95.1	95.8
132.5°	39.2	47.2	54.5	61.2	68.5	73.8	78.5	82.5	84.5	86.5	87.1
135°	34.6	41.9	48.5	55.2	61.2	66.5	70.5	73.8	76.5	77.8	78.5
137.5°	29.3	37.2	43.2	48.5	55.2	59.2	63.8	65.8	68.5	69.8	69.8
140°	24.6	30.6	37.2	42.6	47.9	51.9	55.9	59.2	61.2	61.8	61.8
142.5°	20.0	25.3	30.6	37.2	41.9	45.2	49.2	51.9	53.2	53.9	54.5
145°	16.0	20.0	24.6	30.6	35.9	39.9	41.9	44.6	45.9	46.6	47.2
147.5°	12.0	16.0	20.0	23.9	29.3	33.3	35.2	37.9	39.2	39.9	39.9
150°	9.3	12.0	14.6	18.6	22.6	27.3	29.9	31.9	32.6	33.3	33.3
152.5°	6.7	9.3	11.3	14.0	16.6	20.6	24.6	25.9	26.6	27.3	27.3
155°	4.7	6.7	8.0	10.0	12.0	15.3	18.6	20.6	21.3	21.9	21.9
157.5°	3.3	4.7	5.3	7.3	8.6	10.0	12.6	16.0	16.6	16.6	16.6
160°	2.0	2.7	3.3	4.7	5.3	6.7	8.0	10.0	12.0	12.0	12.0
162.5°	1.3	2.0	2.0	2.7	2.7	4.0	4.7	5.3	7.3	8.0	8.0
165°	0.7	1.3	1.3	1.3	1.3	1.3	2.0	2.0	3.3	4.0	4.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	629.1	630.4	629.8	629.8	629.8	631.1	629.8	623.8	625.1	626.4	627.8
5°	628.4	629.1	629.1	628.4	628.4	629.8	628.4	622.5	623.8	625.1	625.8
7.5°	625.8	626.4	626.4	626.4	625.8	627.1	625.1	619.8	619.8	621.1	621.8
10°	622.5	623.8	623.1	622.5	622.5	622.5	621.1	615.1	615.1	615.8	616.5
12.5°	618.5	618.5	618.5	617.8	617.1	617.1	615.8	609.8	609.2	610.5	609.8
15°	613.1	614.5	613.1	612.5	611.2	611.2	609.2	603.2	601.8	602.5	601.8
17.5°	608.5	609.2	607.8	606.5	605.2	604.5	602.5	595.9	593.9	594.5	593.2
20°	603.8	603.8	602.5	601.2	599.2	597.2	594.5	587.9	584.6	584.6	581.9
22.5°	597.9	597.9	596.5	594.5	592.5	589.9	587.2	580.6	575.2	573.9	571.9
25°	591.2	590.5	589.9	587.9	583.9	581.2	578.6	571.3	565.3	562.6	559.3
27.5°	583.2	583.2	581.2	579.2	575.2	571.9	568.6	561.9	554.0	550.6	546.0
30°	574.6	574.6	572.6	569.9	565.9	561.9	558.0	550.0	542.0	537.3	532.0
32.5°	565.9	565.3	563.3	560.6	556.6	550.6	547.3	539.3	530.0	524.7	517.4
35°	555.3	554.6	552.6	549.3	544.0	539.3	534.0	526.7	516.1	509.4	501.4
37.5°	544.7	544.0	542.7	538.0	532.7	527.4	520.7	513.4	503.4	494.8	486.8
40°	534.0	533.3	530.7	527.4	520.7	514.1	507.4	500.1	489.5	479.5	470.8
42.5°	522.7	522.0	518.7	514.7	507.4	500.8	492.8	484.8	474.2	462.2	453.5
45°	511.4	510.1	506.7	502.1	494.1	486.8	478.8	469.5	458.9	447.6	436.3
47.5°	499.4	497.4	494.1	487.5	480.8	472.8	463.5	453.5	442.9	430.3	418.3
50°	486.1	484.8	480.8	474.8	466.8	458.9	448.2	438.2	425.6	413.6	399.0
52.5°	473.5	470.8	467.5	460.9	452.9	444.2	432.9	421.0	408.3	397.0	381.7
55°	460.2	458.9	454.2	448.9	438.9	428.9	418.3	405.7	391.7	378.4	363.8
57.5°	447.6	444.9	440.9	433.6	424.9	415.0	403.7	390.4	375.1	361.1	345.1
60°	434.9	430.9	426.3	419.6	410.3	399.7	387.7	373.7	358.4	343.1	326.5
62.5°	421.0	417.6	412.3	405.7	396.4	385.0	372.4	357.8	343.1	327.2	309.2
65°	407.0	403.7	398.3	391.7	382.4	369.8	356.4	341.8	325.2	309.9	290.6
67.5°	393.0	389.7	383.7	376.4	367.1	355.1	341.2	325.9	309.2	292.6	272.7
70°	379.1	375.1	369.8	361.8	352.5	339.8	325.9	309.9	293.3	275.3	255.4
72.5°	365.1	361.8	355.1	347.8	337.8	325.2	311.2	295.3	278.0	259.4	239.4
75°	351.1	347.1	342.5	333.8	323.2	311.2	296.6	280.6	262.0	244.1	223.4
77.5°	337.2	333.8	327.9	319.2	309.2	296.6	282.0	266.0	247.4	228.8	206.8
80°	323.2	319.2	314.6	306.6	295.3	282.6	267.3	251.4	232.8	213.5	191.5
82.5°	309.2	305.2	299.9	291.9	281.3	268.7	254.0	236.7	218.1	198.2	177.6
85°	295.3	291.9	286.0	278.0	266.7	254.0	239.4	224.1	204.2	184.2	163.6
87.5°	281.3	278.0	272.0	264.0	253.4	240.7	226.1	210.1	190.9	172.2	149.6
90°	268.0	265.3	259.4	251.4	240.7	228.1	214.8	197.5	178.9	160.3	139.0
92.5°	256.0	253.4	248.1	240.1	230.8	216.8	203.5	186.9	168.2	149.0	128.3
95°	245.4	242.1	236.7	229.4	218.1	206.2	192.9	176.2	158.3	139.0	119.0
97.5°	233.4	230.1	224.8	216.8	207.5	194.9	181.6	165.6	147.6	129.7	109.7
100°	221.5	218.1	212.1	205.5	196.2	183.5	170.9	154.9	138.3	121.0	101.7
102.5°	209.5	206.2	200.8	194.2	184.9	173.6	160.9	145.6	129.0	111.7	93.8
105°	198.2	194.9	189.5	182.9	174.2	162.9	149.6	136.3	120.4	103.7	86.5
107.5°	186.9	183.5	178.9	172.2	163.6	153.0	140.3	126.4	111.7	95.8	79.1
110°	175.6	172.9	167.6	161.6	153.0	142.3	131.0	117.7	103.1	88.4	72.5

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	164.9	162.3	156.9	150.3	143.0	133.0	121.7	109.1	95.1	81.1	65.8
115°	154.3	151.0	146.3	140.3	133.0	123.7	113.1	101.7	87.8	74.5	60.5
117.5°	143.6	141.0	136.3	130.3	123.7	114.4	104.4	93.8	80.5	67.8	55.2
120°	133.0	131.0	126.4	121.0	114.4	105.7	96.4	85.8	73.8	61.8	49.9
122.5°	123.0	121.0	116.4	111.7	105.1	97.1	88.4	78.5	67.8	56.5	45.9
125°	113.7	111.1	107.1	102.4	96.4	89.1	80.5	71.2	61.2	51.2	41.2
127.5°	103.7	101.7	99.1	93.8	87.8	81.1	73.2	65.2	55.9	46.6	37.2
130°	95.8	93.1	89.8	85.8	80.5	73.8	66.5	58.5	50.5	41.9	32.6
132.5°	86.5	83.8	81.1	77.1	72.5	66.5	59.9	52.5	45.2	37.2	29.3
135°	77.8	75.8	73.2	69.2	64.5	59.9	53.2	46.6	39.9	32.6	25.9
137.5°	69.8	67.8	65.2	62.5	57.9	53.2	47.2	41.2	35.2	28.6	22.6
140°	61.8	60.5	57.9	55.2	51.2	46.6	41.2	35.9	30.6	24.6	19.3
142.5°	53.9	52.5	50.5	47.9	44.6	40.6	35.9	31.3	25.9	21.3	16.6
145°	46.6	45.9	43.9	41.2	38.6	34.6	30.6	26.6	21.9	18.0	13.3
147.5°	39.2	38.6	37.2	35.2	32.6	29.3	25.9	21.9	18.6	14.6	10.6
150°	32.6	31.9	31.3	28.6	27.3	23.9	21.3	18.0	15.3	11.3	8.6
152.5°	26.6	26.6	25.3	23.3	21.9	19.3	17.3	14.6	12.0	9.3	6.7
155°	21.3	20.6	20.0	18.6	17.3	15.3	13.3	11.3	9.3	6.7	4.7
157.5°	16.6	16.0	15.3	14.0	12.6	12.0	10.0	8.0	6.0	4.7	3.3
160°	12.0	11.3	10.6	10.0	9.3	8.0	6.7	5.3	4.0	2.7	2.0
162.5°	8.0	7.3	7.3	6.7	6.0	4.7	4.0	3.3	2.7	2.0	1.3
165°	4.0	4.0	3.3	3.3	2.7	2.0	2.0	2.0	1.3	1.3	0.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	627.1	627.1	629.8	629.1	627.1	631.1	635.8
5°	625.1	625.1	627.1	627.1	625.1	629.1	633.1
7.5°	621.8	621.1	623.1	623.1	620.5	623.8	628.4
10°	615.8	615.1	617.1	617.1	614.5	617.8	621.8
12.5°	609.2	607.8	609.8	609.2	606.5	609.8	613.8
15°	600.5	599.8	601.2	599.8	597.2	600.5	604.5
17.5°	591.9	589.9	590.5	590.5	585.9	589.2	592.5
20°	580.6	577.9	578.6	577.9	574.6	576.6	580.6
22.5°	569.3	565.3	565.3	564.6	560.6	563.3	566.6
25°	555.3	550.6	550.6	550.0	545.3	547.3	550.6
27.5°	541.3	536.7	534.7	534.0	529.4	529.4	534.0
30°	526.7	520.0	518.7	516.7	512.1	512.1	516.1
32.5°	512.7	503.4	500.8	498.1	493.4	492.8	497.4
35°	494.1	486.8	482.1	479.5	474.2	472.8	476.8
37.5°	478.8	469.5	462.9	459.5	454.2	452.2	457.5
40°	462.2	452.2	443.6	441.6	433.6	430.9	435.6
42.5°	443.6	432.9	424.3	420.3	414.3	411.6	412.3
45°	424.9	413.6	404.3	399.0	393.0	388.4	391.0
47.5°	405.7	395.7	384.4	376.4	369.1	365.8	367.1
50°	386.4	374.4	363.8	355.1	346.5	342.5	345.1
52.5°	367.1	354.5	342.5	333.2	323.2	319.2	319.9
55°	348.5	335.2	321.2	311.2	301.9	295.9	294.6
57.5°	329.8	315.2	300.6	289.3	277.3	272.0	270.0
60°	309.9	294.6	279.3	266.0	253.4	247.4	244.7
62.5°	291.3	274.7	257.4	243.4	230.8	222.8	220.8
65°	273.3	254.0	236.7	220.8	206.8	198.2	195.5
67.5°	254.0	234.1	215.5	198.2	184.9	173.6	172.2
70°	236.1	214.8	194.2	176.2	161.6	150.3	145.0
72.5°	218.1	196.2	174.9	155.6	137.0	126.4	122.4
75°	200.8	178.2	155.6	135.7	115.0	102.4	98.4
77.5°	184.9	161.6	137.7	115.7	96.4	80.5	75.1
80°	169.6	145.6	120.4	97.8	77.1	59.9	53.9
82.5°	153.6	131.0	105.1	81.1	59.9	41.9	34.6
85°	139.7	117.0	91.1	67.2	45.9	26.6	18.6
87.5°	128.3	103.7	80.5	56.5	34.6	15.3	5.3
90°	117.0	93.1	69.8	46.6	25.9	8.6	0.7
92.5°	107.1	84.5	61.2	39.9	20.0	6.0	0.7
95°	97.8	75.8	53.9	33.3	16.0	4.0	0.7
97.5°	89.1	68.5	47.9	28.6	13.3	3.3	0.7
100°	81.8	61.8	42.6	25.3	11.3	2.7	0.7
102.5°	74.5	55.9	37.9	21.9	10.0	2.0	0.7
105°	68.5	50.5	33.9	20.0	8.6	2.0	0.7
107.5°	62.5	45.9	30.6	17.3	7.3	1.3	0.7
110°	56.5	41.9	27.3	15.3	6.7	1.3	0.7



TEST NUMBER: P1213743

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	51.9	37.9	24.6	14.0	5.3	1.3	0.7
115°	47.2	33.9	21.9	12.0	4.7	0.7	0.7
117.5°	42.6	30.6	19.3	10.6	4.0	0.7	0.7
120°	38.6	27.3	17.3	9.3	3.3	0.7	0.7
122.5°	34.6	24.6	15.3	8.0	2.7	0.7	0.7
125°	31.3	21.9	13.3	6.7	2.0	0.7	0.7
127.5°	27.9	19.3	12.0	6.0	2.0	0.7	0.7
130°	24.6	17.3	10.0	4.7	1.3	0.7	0.7
132.5°	21.9	14.6	8.6	4.0	1.3	0.7	0.7
135°	19.3	12.6	7.3	2.7	1.3	0.7	0.7
137.5°	16.6	10.6	6.0	2.0	0.7	0.7	0.7
140°	14.0	9.3	4.7	2.0	0.7	0.7	0.7
142.5°	12.0	7.3	3.3	1.3	0.7	0.7	0.7
145°	9.3	6.0	2.7	1.3	0.7	0.7	0.7
147.5°	7.3	4.7	2.0	1.3	0.7	0.7	0.7
150°	5.3	3.3	2.0	0.7	0.7	0.7	0.7
152.5°	4.0	2.7	1.3	0.7	0.7	0.7	0.7
155°	2.7	2.0	1.3	0.7	0.7	0.7	0.7
157.5°	2.0	1.3	0.7	0.7	0.7	0.7	0.7
160°	1.3	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)