

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: P1213692

Luminaire Tested: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

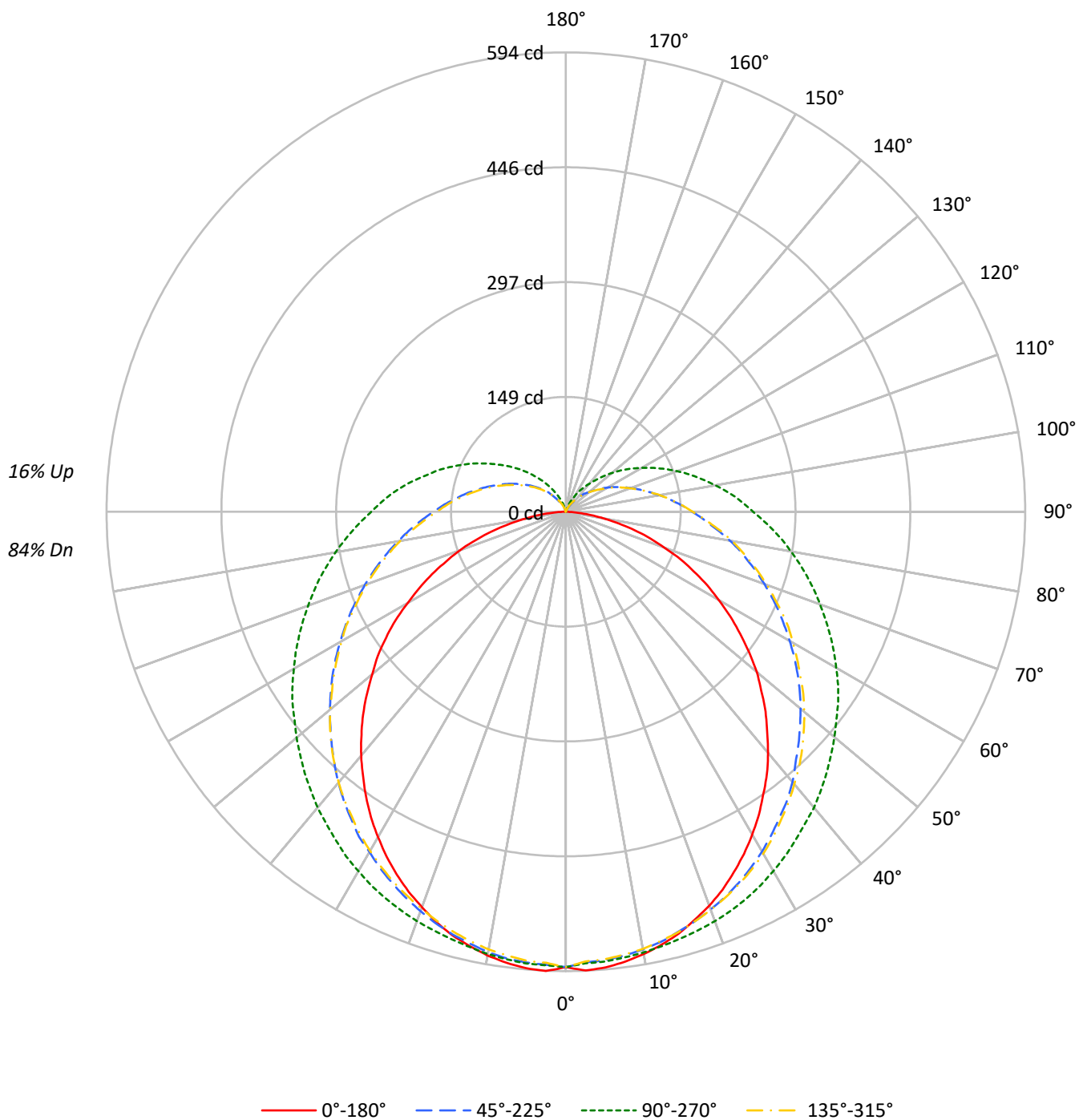
Lumens per Lamp: N/A
Luminaire Lumens: 2558.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 27
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°	9516	9516	9516	9516
5°	9541	9170	9560	9210
10°	9426	8909	9457	8938
15°	9291	8687	9331	8696
20°	9118	8524	9150	8524
25°	8910	8379	8965	8370
30°	8682	8230	8749	8230
35°	8417	8093	8512	8102
40°	8155	8011	8255	8011
45°	7856	7927	7977	7937
50°	7542	7877	7645	7897
55°	7116	7884	7342	7917
60°	6668	7908	6883	7957
65°	6158	7988	6431	8066
70°	5461	8135	5888	8249
75°	4653	8401	5094	8562
80°	3456	8793	3924	8998
85°	1882	9425	2347	9688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 10828 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	2.2
10°-20°	160.3	6.3
20°-30°	245.8	9.6
30°-40°	303.2	11.9
40°-50°	328.9	12.9
50°-60°	324.2	12.7
60°-70°	293.1	11.5
70°-80°	244.2	9.5
80°-90°	189.1	7.4
90°-100°	143.4	5.6
100°-110°	106.2	4.2
110°-120°	73.8	2.9
120°-130°	47.1	1.8
130°-140°	26.4	1.0
140°-150°	12.1	0.5
150°-160°	3.7	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	461.8	18.1
0°-40°	765.0	29.9
0°-60°	1418.2	55.4
0°-90°	2144.7	83.8
90°-120°	323.4	12.6
90°-150°	409.1	16.0
90°-180°	413.0	16.1
0°-180°	2558.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	589	589	589	589	589	
5°	591	584	592	586	591	56
15°	565	571	567	572	565	159
25°	514	552	517	552	514	237
35°	445	518	450	519	445	279
45°	365	477	371	478	365	281
55°	275	430	284	432	275	246
65°	183	377	191	381	183	181
75°	92	323	101	329	92	97
85°	17	269	22	276	17	21
90°	1	242	1	252	1	1
95°	1	220	1	230	1	0
105°	1	174	1	185	1	1
115°	1	133	1	145	1	1
125°	1	96	1	106	1	1
135°	1	62	1	73	1	0
145°	1	36	1	44	1	0
155°	1	15	1	20	1	0
165°	1	2	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°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	593.7	593.7	593.1	591.9	592.5	594.4	593.1	590.0	588.2	583.2	584.4
5°	591.3	591.3	590.6	589.4	590.0	592.5	591.3	588.8	586.3	581.9	583.8
7.5°	586.9	586.9	586.3	585.1	586.3	588.8	587.5	585.1	583.2	578.8	580.7
10°	580.7	581.3	580.7	578.8	581.3	583.8	583.2	580.1	578.2	574.5	576.4
12.5°	573.2	573.9	573.2	572.6	573.9	577.6	576.4	573.9	572.6	569.5	571.4
15°	564.6	565.2	563.9	563.9	565.2	568.9	568.9	566.4	565.2	562.1	565.8
17.5°	553.4	554.0	553.4	553.4	554.6	558.3	559.0	557.7	556.5	555.2	559.0
20°	542.2	541.6	541.6	541.0	543.4	549.0	548.4	548.4	547.2	547.2	551.5
22.5°	529.2	529.2	528.5	528.5	531.6	536.6	536.6	537.8	536.6	539.1	542.8
25°	514.2	514.9	514.2	515.5	518.0	523.6	524.2	526.0	526.7	529.2	533.5
27.5°	498.7	499.3	498.7	500.0	504.3	508.7	511.8	514.2	514.9	518.6	524.2
30°	482.0	482.0	482.6	483.8	488.8	495.6	498.1	501.2	501.2	507.4	513.0
32.5°	464.6	464.6	464.6	467.0	472.6	480.7	483.8	487.5	488.8	495.0	501.2
35°	445.3	445.9	445.9	447.8	455.2	463.3	467.7	472.0	474.5	482.0	488.2
37.5°	427.3	428.5	426.7	429.2	439.7	446.6	451.5	455.9	460.2	470.2	475.1
40°	406.8	408.0	407.4	412.4	421.1	429.8	435.4	439.7	445.9	455.9	461.5
42.5°	385.1	386.3	387.5	393.1	402.5	411.1	418.0	423.6	431.0	439.7	449.0
45°	365.2	365.2	367.1	373.9	383.8	393.1	401.2	407.4	416.1	425.4	434.8
47.5°	342.8	343.5	345.9	354.0	364.6	375.7	383.2	391.3	400.6	410.5	421.1
50°	322.3	322.3	326.1	334.8	344.7	357.1	365.2	374.5	384.4	396.2	406.8
52.5°	298.7	300.0	305.6	313.6	326.7	337.9	347.2	357.1	368.9	381.3	393.1
55°	275.1	277.6	282.0	293.1	306.8	317.4	328.5	341.0	352.1	365.8	379.5
57.5°	252.2	254.0	260.9	272.0	286.3	299.4	311.2	323.0	336.6	350.3	364.6
60°	228.6	231.0	239.1	250.3	265.8	279.5	293.1	305.6	319.9	334.1	349.0
62.5°	206.2	208.1	217.4	230.4	245.9	260.9	274.5	289.4	304.9	318.6	333.5
65°	182.6	185.7	196.3	208.1	226.1	241.0	256.5	272.7	288.8	303.7	318.0
67.5°	160.9	162.7	173.9	187.6	205.6	222.3	238.5	255.9	272.7	288.2	302.5
70°	135.4	141.6	152.8	167.1	186.3	203.7	221.1	239.1	257.1	273.3	286.9
72.5°	114.3	119.2	131.7	147.2	165.8	186.3	204.3	223.6	241.6	258.4	272.7
75°	91.9	96.9	111.2	128.6	147.8	169.6	188.2	208.1	226.7	243.5	258.4
77.5°	70.2	76.4	91.9	109.9	131.0	153.4	172.7	192.5	211.8	229.8	244.7
80°	50.3	57.1	73.9	94.4	114.9	137.3	158.4	178.2	197.5	215.5	231.0
82.5°	32.3	39.7	57.8	78.3	100.0	122.4	144.1	164.0	183.2	201.2	217.4
85°	17.4	25.5	44.1	64.6	86.3	108.7	130.4	151.5	170.2	186.9	204.3
87.5°	5.0	14.9	32.9	53.4	75.8	96.3	117.4	138.5	157.1	175.1	190.7
90°	0.6	8.7	24.8	44.1	65.8	85.7	106.8	126.7	145.3	163.3	178.9
92.5°	0.6	5.6	19.3	36.6	56.5	77.0	98.1	117.4	134.8	152.8	168.3
95°	0.6	4.3	15.5	31.1	49.7	68.9	88.8	107.4	125.5	142.2	157.8
97.5°	0.6	3.1	12.4	26.7	43.5	61.5	80.7	99.4	116.8	132.9	147.2
100°	0.6	2.5	9.9	23.0	37.9	55.3	72.7	90.7	107.4	123.0	137.9
102.5°	0.6	1.9	8.7	19.3	33.5	49.1	65.8	82.6	98.8	113.7	128.6
105°	0.6	1.9	7.5	16.8	29.8	44.1	59.6	75.8	90.7	105.0	118.6
107.5°	0.6	1.2	6.2	14.3	26.1	39.7	54.0	69.6	83.2	96.9	109.9
110°	0.6	1.2	5.0	13.0	23.0	35.4	49.1	63.3	76.4	89.4	101.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.2	4.3	11.2	19.9	31.7	44.1	57.1	69.6	82.6	93.8
115°	0.6	1.2	3.7	9.9	18.6	27.3	39.7	51.5	64.0	75.8	86.3
117.5°	0.6	1.2	3.1	8.1	16.1	24.8	34.8	46.6	57.8	68.9	78.9
120°	0.6	1.2	2.5	7.5	14.3	22.4	31.1	41.6	52.2	62.7	73.3
122.5°	0.6	0.6	2.5	6.2	12.4	19.9	28.6	36.6	46.6	56.5	65.8
125°	0.6	0.6	2.5	5.6	10.6	18.0	25.5	32.9	41.6	50.3	58.4
127.5°	0.6	0.6	1.9	4.3	9.3	15.5	22.4	30.4	36.6	44.7	52.8
130°	0.6	0.6	1.9	3.7	8.1	13.0	19.9	26.7	34.2	39.7	46.6
132.5°	0.6	0.6	1.9	3.1	6.2	10.6	16.8	23.0	29.8	36.0	41.6
135°	0.6	0.6	1.2	2.5	5.0	8.7	13.7	19.3	26.1	32.3	37.9
137.5°	0.6	0.6	1.2	2.5	3.7	7.5	10.6	15.5	21.7	27.3	32.9
140°	0.6	0.6	1.2	1.9	3.1	5.6	8.7	12.4	17.4	22.4	28.6
142.5°	0.6	0.6	0.6	1.9	2.5	4.3	6.8	9.9	13.7	18.0	23.0
145°	0.6	0.6	0.6	1.9	2.5	3.1	5.6	8.1	10.6	13.7	18.0
147.5°	0.6	0.6	0.6	1.2	1.9	2.5	4.3	6.2	8.1	10.6	13.0
150°	0.6	0.6	0.6	1.2	1.9	2.5	3.1	4.3	6.2	8.7	10.6
152.5°	0.6	0.6	0.6	1.2	1.2	1.9	2.5	3.1	4.3	6.2	7.5
155°	0.6	0.6	0.6	0.6	1.2	1.9	2.5	2.5	3.1	4.3	5.6
157.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.9	1.9	2.5	2.5	3.7
160°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9	1.9	1.9	1.9
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.9	1.9
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	584.4	585.1	586.9	586.9	585.7	585.7	585.1	584.4	585.1	586.3	586.3
5°	583.2	583.8	585.7	586.3	585.1	584.4	584.4	583.8	584.4	585.7	585.7
7.5°	580.7	581.3	583.2	583.8	582.6	582.6	581.9	581.3	582.6	583.2	583.2
10°	577.0	577.6	580.1	580.7	580.1	579.5	579.5	578.8	579.5	580.7	580.7
12.5°	572.0	573.2	576.4	576.4	576.4	575.7	575.7	575.1	575.7	577.0	576.4
15°	566.4	568.9	571.4	572.6	572.6	572.6	572.0	571.4	572.6	573.2	572.6
17.5°	560.2	563.3	567.0	568.3	568.3	568.9	568.3	567.7	568.9	568.9	568.3
20°	554.0	557.1	560.8	562.1	563.3	563.9	563.9	563.3	563.9	564.6	563.9
22.5°	545.9	549.6	554.0	555.9	557.1	558.3	558.3	558.3	559.0	559.6	558.3
25°	537.2	541.6	546.5	548.4	550.9	551.5	552.1	552.1	552.8	553.4	551.5
27.5°	527.9	532.9	537.8	541.0	542.8	544.1	544.1	544.7	545.3	545.9	544.1
30°	516.7	524.2	528.5	531.0	533.5	535.4	536.0	536.6	537.2	537.8	536.0
32.5°	506.8	513.0	518.6	521.7	524.8	527.3	527.9	527.9	529.2	529.2	527.3
35°	495.0	502.4	508.0	511.1	514.9	516.7	518.0	518.0	519.2	519.2	517.4
37.5°	483.2	490.6	496.9	500.6	504.9	507.4	508.0	508.0	509.3	509.3	506.8
40°	470.8	478.8	485.7	490.0	493.8	496.9	497.5	499.3	499.3	498.7	496.2
42.5°	458.4	465.8	473.3	478.2	483.2	486.3	487.5	488.2	488.2	487.5	485.7
45°	444.7	453.4	460.2	466.4	471.4	474.5	476.4	477.0	477.0	475.7	473.9
47.5°	431.6	440.3	447.2	454.0	459.0	462.7	464.6	465.2	464.6	463.9	462.1
50°	418.0	427.9	434.8	441.6	446.6	449.7	452.8	453.4	452.8	452.1	448.4
52.5°	403.7	414.3	421.7	428.5	434.1	437.9	440.3	441.0	441.0	439.7	437.2
55°	389.4	398.7	408.0	415.5	421.7	425.4	428.5	429.8	428.5	427.3	424.2
57.5°	376.4	385.1	394.4	402.5	408.7	413.6	416.1	417.4	416.1	414.3	411.1
60°	360.8	370.2	380.7	388.2	395.0	400.0	401.2	403.7	402.5	400.6	397.5
62.5°	345.9	357.1	366.4	375.7	381.3	386.9	389.4	390.7	389.4	387.5	384.4
65°	330.4	342.8	352.1	361.5	367.7	373.3	376.4	377.0	375.7	373.9	370.8
67.5°	316.1	327.9	337.9	347.8	353.4	359.0	362.1	363.3	362.1	359.6	356.5
70°	301.8	313.6	325.4	332.9	339.7	345.9	347.8	349.7	348.4	345.9	342.2
72.5°	287.6	300.0	311.8	319.2	326.7	332.3	334.8	336.6	335.4	332.9	328.5
75°	272.7	285.7	297.5	305.6	313.0	318.6	321.1	323.0	321.7	319.2	314.3
77.5°	259.0	272.0	283.2	291.9	299.4	304.3	308.7	309.3	308.1	305.6	300.6
80°	244.7	257.7	269.5	278.2	285.7	290.7	293.8	295.6	294.4	291.9	286.9
82.5°	232.3	244.1	255.9	264.6	272.0	278.2	280.7	282.6	282.0	278.2	274.5
85°	218.6	232.3	241.6	250.9	258.4	264.6	266.4	268.9	268.3	265.2	260.2
87.5°	205.0	218.6	229.8	239.1	245.9	250.9	254.0	255.3	254.6	251.5	245.9
90°	193.8	206.2	217.4	227.3	232.9	238.5	241.6	242.2	242.2	238.5	234.1
92.5°	183.2	195.0	206.2	215.5	222.3	227.3	229.8	231.0	230.4	227.3	222.3
95°	171.4	184.5	195.0	204.3	211.2	216.1	218.6	219.9	219.2	216.1	211.2
97.5°	161.5	173.3	183.8	192.5	199.4	204.3	206.8	208.1	208.1	205.0	200.0
100°	151.5	163.3	173.3	182.0	188.2	193.2	195.6	196.3	195.6	193.2	188.2
102.5°	141.6	152.8	162.7	170.8	177.6	182.0	184.5	185.1	185.1	182.0	177.0
105°	131.7	142.8	152.2	160.9	166.4	170.8	172.7	174.5	173.9	171.4	166.4
107.5°	122.4	133.5	142.2	150.3	155.9	160.2	162.1	164.0	163.3	160.9	155.9
110°	113.7	124.2	132.3	140.4	145.3	149.7	152.8	153.4	152.2	149.7	145.3

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	105.6	114.9	123.0	130.4	136.0	139.1	141.6	142.8	141.6	139.1	136.0
115°	96.9	106.2	114.3	121.1	126.1	129.8	131.7	132.9	131.7	129.2	126.1
117.5°	88.8	97.5	105.6	112.4	116.8	119.9	121.7	123.0	121.7	119.9	116.8
120°	82.0	89.4	96.9	103.1	108.1	110.6	112.4	113.7	113.0	110.6	107.4
122.5°	73.9	82.0	88.8	95.0	99.4	101.9	103.1	104.3	103.7	101.9	98.8
125°	67.1	73.9	80.7	86.3	90.7	93.2	94.4	95.6	95.0	93.2	89.4
127.5°	59.6	67.1	72.7	78.3	81.4	85.1	85.7	87.0	86.3	84.5	81.4
130°	54.0	59.6	65.2	70.2	73.9	76.4	77.6	78.3	77.0	75.8	72.7
132.5°	47.2	53.4	58.4	62.7	65.2	67.7	68.9	69.6	69.6	67.7	65.2
135°	42.2	46.6	50.9	55.3	57.8	60.2	61.5	62.1	61.5	60.2	57.8
137.5°	37.9	41.6	44.7	48.4	51.5	52.8	54.0	54.0	53.4	52.8	50.9
140°	32.9	37.3	40.4	42.9	45.3	46.0	47.2	47.2	46.6	46.0	44.7
142.5°	27.9	31.7	34.8	37.9	39.7	41.0	41.6	42.2	41.6	41.0	39.1
145°	22.4	26.7	29.8	31.7	34.2	34.8	35.4	36.0	35.4	34.8	32.9
147.5°	17.4	21.1	24.2	26.7	28.6	29.2	29.8	30.4	29.8	28.6	27.9
150°	12.4	15.5	19.3	21.7	23.0	24.2	24.2	24.2	24.8	23.6	22.4
152.5°	9.9	11.2	13.7	16.1	18.0	18.6	19.3	19.3	18.6	18.6	17.4
155°	6.8	8.1	9.9	11.8	13.7	14.3	14.9	14.9	14.3	14.3	13.7
157.5°	4.3	5.6	6.8	8.1	9.9	10.6	11.2	11.2	11.2	10.6	9.9
160°	2.5	3.1	3.7	5.0	6.2	6.8	7.5	7.5	7.5	7.5	6.8
162.5°	1.9	1.9	1.9	2.5	3.1	3.7	4.3	4.3	4.3	4.3	3.7
165°	1.2	1.2	1.2	1.2	1.2	1.9	2.5	2.5	2.5	2.5	2.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	585.7	585.7	586.3	585.1	581.3	581.9	581.9	584.4	585.7	586.3	589.4
5°	584.4	584.4	585.7	583.8	580.7	580.7	580.7	583.2	583.8	585.1	587.5
7.5°	582.6	582.6	583.2	581.3	577.6	577.6	577.0	579.5	580.7	581.3	583.8
10°	579.5	579.5	580.1	578.2	573.9	573.9	573.2	575.1	575.7	577.0	578.8
12.5°	575.1	575.1	575.1	573.2	568.9	568.3	567.7	569.5	569.5	570.1	572.0
15°	571.4	570.1	570.1	568.3	563.9	562.7	561.4	562.1	563.3	562.7	563.9
17.5°	567.0	565.8	564.6	562.7	557.1	555.2	554.0	554.6	554.0	553.4	554.6
20°	562.1	560.2	559.6	556.5	550.9	547.8	545.3	544.1	544.7	542.8	543.4
22.5°	556.5	554.0	552.8	549.0	543.4	539.7	536.6	534.1	533.5	531.0	531.6
25°	549.6	546.5	544.7	541.6	535.4	531.0	527.3	523.6	521.7	518.6	518.0
27.5°	541.6	538.5	536.0	532.9	526.7	521.1	516.7	511.8	509.3	505.6	503.7
30°	533.5	529.8	526.0	523.6	516.7	510.5	503.7	499.3	495.6	491.3	488.2
32.5°	523.6	519.8	516.1	512.4	506.2	498.7	493.1	486.3	482.0	477.0	473.3
35°	513.6	508.7	504.9	500.0	494.4	485.7	478.8	472.0	466.4	460.8	456.5
37.5°	502.4	498.7	493.1	488.8	482.0	473.3	465.8	457.1	452.1	444.7	439.1
40°	491.9	487.5	482.0	476.4	469.5	459.6	451.5	441.6	436.0	427.3	421.7
42.5°	481.3	475.1	469.5	463.3	455.9	446.6	436.6	426.7	419.2	411.1	403.1
45°	469.5	462.7	455.9	449.0	441.6	432.3	421.7	411.1	401.8	394.4	384.4
47.5°	457.1	450.3	442.2	434.8	426.7	417.4	406.2	395.0	385.1	376.4	365.8
50°	444.7	437.9	429.2	421.1	411.8	402.5	390.7	377.6	367.1	355.9	346.6
52.5°	431.6	424.8	416.7	406.2	396.2	386.9	374.5	360.8	349.0	339.7	327.9
55°	418.6	411.8	402.5	391.9	382.0	370.2	358.4	344.7	331.7	320.5	308.7
57.5°	404.9	398.7	388.2	379.5	367.1	354.6	342.2	329.2	314.9	301.8	288.2
60°	391.3	384.4	374.5	363.9	351.5	339.1	326.1	311.8	296.9	282.6	270.2
62.5°	378.9	370.2	360.8	349.7	336.6	324.8	309.9	294.4	279.5	264.6	249.7
65°	364.6	355.3	346.6	335.4	321.7	308.1	293.1	277.6	261.5	245.3	230.4
67.5°	350.3	341.0	331.7	320.5	306.2	291.9	276.4	260.9	242.8	227.3	209.9
70°	336.0	328.5	316.7	304.9	291.9	276.4	260.9	244.1	225.4	208.7	190.7
72.5°	321.7	314.3	302.5	290.0	277.6	261.5	244.7	227.9	210.5	191.3	172.0
75°	308.1	298.7	288.2	276.4	263.3	246.6	229.8	212.4	191.9	173.9	154.0
77.5°	295.0	286.3	275.8	262.7	248.4	232.3	214.9	196.9	176.4	157.1	135.4
80°	280.7	272.0	261.5	248.4	234.1	218.6	200.0	181.4	161.5	140.4	118.0
82.5°	267.1	259.0	247.2	235.4	219.9	204.3	185.7	167.1	146.0	125.5	103.7
85°	252.8	244.7	233.5	221.1	206.2	189.4	172.0	153.4	132.3	111.2	89.4
87.5°	240.4	231.0	219.9	207.4	192.5	176.4	159.6	139.7	119.2	98.8	76.4
90°	227.3	218.6	207.4	195.0	180.1	164.0	146.6	127.9	108.1	87.0	65.8
92.5°	216.1	206.8	196.3	183.8	168.9	153.4	136.0	117.4	98.1	77.6	57.1
95°	205.0	195.6	185.7	173.3	158.4	142.8	125.5	107.4	88.8	68.9	49.7
97.5°	192.5	184.5	174.5	162.7	147.8	132.9	116.1	98.8	80.7	61.5	43.5
100°	182.6	173.3	164.0	151.5	137.9	123.6	106.8	90.1	72.7	54.7	37.9
102.5°	171.4	162.7	153.4	141.6	127.9	113.7	98.1	82.0	65.8	49.1	32.9
105°	160.9	152.8	142.8	131.7	118.6	105.0	90.1	75.1	59.6	43.5	29.2
107.5°	150.3	142.2	132.9	122.4	109.9	96.3	82.6	67.7	53.4	39.1	26.1
110°	139.7	132.3	123.6	113.0	101.2	88.8	75.8	62.1	47.8	34.8	23.0

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	130.4	123.0	114.3	104.3	93.2	81.4	68.9	55.9	42.9	31.1	19.9
115°	121.1	114.3	105.6	96.9	85.7	74.5	62.7	50.3	38.5	27.9	17.4
117.5°	111.8	105.0	96.9	88.2	78.3	67.7	56.5	44.7	34.8	24.8	15.5
120°	102.5	96.3	88.8	80.7	72.0	61.5	50.3	40.4	31.1	21.7	13.7
122.5°	93.8	88.2	81.4	73.9	64.6	54.7	45.3	36.6	27.9	19.3	11.2
125°	85.7	80.1	73.9	66.5	57.8	49.1	41.0	32.9	24.2	16.8	9.3
127.5°	77.6	72.0	65.8	59.0	52.2	44.1	36.6	29.2	21.7	14.9	8.1
130°	69.6	64.6	59.0	53.4	46.6	39.1	32.9	25.5	18.6	11.8	6.8
132.5°	61.5	57.8	52.8	47.2	41.0	35.4	28.6	22.4	16.1	10.6	6.2
135°	54.7	50.9	46.6	41.6	36.6	31.1	24.8	19.3	13.7	8.7	5.0
137.5°	48.4	45.3	41.0	36.6	32.3	26.7	21.7	16.1	11.2	7.5	3.7
140°	42.9	39.7	36.0	31.7	27.9	23.0	18.0	13.0	9.9	6.2	3.1
142.5°	37.3	34.2	31.1	27.3	23.6	19.3	14.9	11.2	8.1	5.0	3.1
145°	31.7	29.2	26.1	23.0	19.3	15.5	12.4	9.3	6.2	3.7	2.5
147.5°	26.1	24.2	21.1	18.6	15.5	12.4	9.9	7.5	5.0	3.1	1.9
150°	21.1	19.3	16.8	14.3	12.4	9.9	8.1	5.6	3.7	3.1	1.9
152.5°	16.1	14.9	13.0	11.8	9.9	7.5	5.6	4.3	3.1	2.5	1.2
155°	13.0	11.8	10.6	8.7	7.5	5.6	4.3	3.1	2.5	1.9	1.2
157.5°	9.3	8.7	7.5	6.2	5.0	3.7	3.1	3.1	1.9	1.2	0.6
160°	6.2	5.6	5.0	3.7	3.1	3.1	2.5	1.9	1.2	1.2	0.6
162.5°	3.7	3.1	3.1	3.1	2.5	2.5	1.9	1.2	1.2	0.6	0.6
165°	2.5	2.5	2.5	1.9	1.9	1.9	1.2	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: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	589.4	587.5	590.0	594.4	595.0	594.4	593.1	595.0	597.5	596.9	592.5
5°	588.2	585.7	588.2	592.5	592.5	591.9	591.3	593.1	595.6	595.0	591.3
7.5°	584.4	581.9	584.4	588.2	588.8	587.5	587.5	589.4	591.9	591.3	588.2
10°	579.5	577.0	578.2	582.6	583.8	582.6	582.6	584.4	587.5	586.9	583.2
12.5°	572.0	570.1	571.4	575.1	576.4	575.7	575.1	577.6	580.7	580.7	577.0
15°	563.9	561.4	562.7	567.0	567.7	566.4	567.0	568.9	572.6	572.6	569.5
17.5°	554.6	551.5	553.4	556.5	557.1	557.1	557.1	559.6	563.9	563.3	560.8
20°	544.1	539.7	541.0	544.1	545.3	545.3	545.3	549.6	552.8	552.8	550.3
22.5°	531.6	528.5	528.5	531.6	533.5	532.9	532.9	536.6	541.0	540.3	540.3
25°	517.4	514.9	513.6	517.4	518.0	518.6	519.8	523.6	528.5	528.5	529.2
27.5°	502.4	500.0	499.3	502.4	503.1	503.7	504.9	509.3	514.2	514.9	516.1
30°	488.2	484.4	483.2	485.7	486.9	487.5	487.5	494.4	498.7	500.6	503.1
32.5°	471.4	467.7	464.6	468.9	469.5	470.8	471.4	478.2	483.2	486.3	490.0
35°	454.6	448.4	447.2	450.3	451.5	452.1	453.4	460.8	467.7	470.2	475.1
37.5°	436.0	431.6	427.9	431.0	432.3	432.9	436.6	443.4	450.3	454.0	459.0
40°	418.6	413.0	409.9	411.8	413.0	413.6	418.0	425.4	433.5	437.9	444.1
42.5°	399.3	391.9	389.4	391.3	391.9	393.8	397.5	407.4	415.5	421.7	426.7
45°	380.1	374.5	368.9	370.8	371.4	372.6	378.2	388.8	397.5	404.9	410.5
47.5°	360.2	353.4	347.8	349.0	351.5	352.1	358.4	370.8	378.9	386.9	394.4
50°	340.3	331.0	326.7	326.7	327.9	331.0	339.1	351.5	360.2	369.5	377.6
52.5°	319.9	311.2	306.2	306.8	308.1	311.8	319.2	331.7	341.6	351.5	361.5
55°	299.4	290.0	285.1	283.8	285.1	290.0	298.7	311.8	321.7	333.5	344.1
57.5°	278.9	267.7	263.3	261.5	262.7	268.9	277.6	291.3	303.7	314.9	327.3
60°	256.5	247.8	240.4	236.0	239.1	247.2	256.5	270.8	283.8	296.3	309.9
62.5°	237.2	226.1	218.0	213.6	216.8	223.6	236.6	250.3	264.6	278.9	292.5
65°	215.5	204.3	195.0	190.7	193.8	201.8	214.9	229.8	245.3	259.6	275.8
67.5°	194.4	182.6	171.4	167.1	170.8	179.5	193.8	210.5	227.3	242.2	259.6
70°	173.9	160.9	149.1	146.0	148.4	160.2	173.9	190.7	208.1	225.4	243.5
72.5°	155.3	139.1	126.7	123.0	126.1	139.1	154.6	172.0	190.7	209.3	228.6
75°	133.5	118.6	105.0	100.6	104.3	116.1	135.4	154.0	173.9	193.8	211.8
77.5°	116.1	98.8	84.5	77.6	83.8	98.8	117.4	137.3	157.8	178.2	198.7
80°	98.1	80.1	64.6	57.1	64.0	80.1	98.8	120.5	143.5	164.0	182.6
82.5°	82.0	62.7	46.6	38.5	46.0	64.0	84.5	106.2	128.6	149.1	170.8
85°	67.1	47.2	30.4	21.7	32.3	48.4	70.2	92.5	115.5	136.6	157.8
87.5°	54.7	35.4	18.6	9.3	19.9	37.9	58.4	80.7	103.7	124.8	144.7
90°	44.7	25.5	9.9	1.2	11.8	28.6	48.4	70.2	91.9	113.7	133.5
92.5°	36.6	19.3	5.6	0.6	7.5	23.0	41.6	62.1	83.2	104.3	123.6
95°	30.4	14.9	3.7	0.6	5.6	18.0	35.4	55.3	75.1	95.6	114.9
97.5°	26.1	12.4	3.1	0.6	4.3	15.5	30.4	49.1	68.3	87.6	106.2
100°	22.4	9.9	2.5	0.6	3.7	13.0	26.7	43.5	61.5	80.1	98.1
102.5°	19.3	8.1	1.9	0.6	3.1	11.2	23.6	39.1	55.3	73.3	90.7
105°	16.8	6.8	1.9	0.6	2.5	9.9	21.1	34.8	50.9	67.1	83.8
107.5°	14.3	5.6	1.2	0.6	1.9	8.1	18.6	31.7	46.0	61.5	77.0
110°	12.4	5.0	1.2	0.6	1.9	7.5	16.1	28.6	41.6	55.9	70.8

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	10.6	3.7	1.2	0.6	1.2	6.2	14.3	25.5	37.9	50.9	65.2
115°	9.3	3.1	0.6	0.6	1.2	5.6	13.0	23.0	34.2	46.6	59.6
117.5°	7.5	2.5	0.6	0.6	0.6	4.3	11.2	20.5	31.1	42.9	54.7
120°	6.2	2.5	0.6	0.6	0.6	3.7	9.9	18.0	27.9	38.5	49.7
122.5°	5.6	1.9	0.6	0.6	0.6	3.1	8.7	16.1	24.8	34.8	45.3
125°	5.0	1.9	0.6	0.6	0.6	2.5	7.5	14.3	22.4	31.1	41.0
127.5°	3.7	1.9	0.6	0.6	0.6	1.9	6.8	12.4	19.9	27.9	36.6
130°	3.1	1.2	0.6	0.6	0.6	1.9	5.6	11.2	17.4	24.8	32.9
132.5°	2.5	1.2	0.6	0.6	0.6	1.2	4.3	8.7	14.9	21.7	29.2
135°	2.5	1.2	0.6	0.6	0.6	1.2	3.1	7.5	12.4	18.6	24.8
137.5°	2.5	0.6	0.6	0.6	0.6	1.2	2.5	5.6	9.9	14.9	20.5
140°	1.9	0.6	0.6	0.6	0.6	0.6	1.9	4.3	8.1	12.4	17.4
142.5°	1.9	0.6	0.6	0.6	0.6	0.6	1.9	3.1	6.2	9.9	13.7
145°	1.2	0.6	0.6	0.6	0.6	0.6	1.2	2.5	5.0	7.5	11.2
147.5°	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.9	3.7	6.2	8.7
150°	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.9	2.5	4.3	6.8
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9	3.1	4.3
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.9	2.5	3.1
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9	2.5
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	590.6	586.3	587.5	586.9	588.2	590.0	590.0	589.4	589.4	588.2	586.9
5°	589.4	585.1	586.9	586.3	587.5	589.4	589.4	588.8	588.8	586.9	586.3
7.5°	585.7	582.6	583.8	583.8	585.1	586.9	586.9	586.3	586.3	584.4	583.8
10°	581.9	578.2	580.1	580.1	581.3	583.8	583.8	583.2	583.2	581.3	580.7
12.5°	575.7	572.0	575.1	575.7	577.0	579.5	578.8	578.8	578.8	577.0	576.4
15°	568.3	565.8	568.9	569.5	571.4	574.5	574.5	574.5	574.5	572.6	572.0
17.5°	560.2	558.3	561.4	562.7	565.2	568.3	568.3	568.9	569.5	568.3	567.7
20°	550.9	549.6	552.8	555.2	559.0	562.1	563.3	563.9	565.2	563.9	563.3
22.5°	540.3	540.3	544.7	547.2	551.5	554.6	556.5	558.3	559.6	558.3	557.7
25°	528.5	530.4	534.7	539.1	544.1	547.2	549.0	551.5	552.8	552.1	551.5
27.5°	517.4	519.8	525.4	529.8	534.1	539.1	541.0	544.1	545.3	545.3	544.7
30°	504.3	508.0	514.2	519.2	524.8	529.8	532.3	535.4	537.2	536.0	536.6
32.5°	491.9	498.1	503.1	508.7	514.9	519.8	522.9	526.7	528.5	527.9	528.5
35°	478.2	484.4	491.3	496.9	504.3	509.3	513.6	516.7	519.2	518.6	518.6
37.5°	463.3	471.4	478.2	485.7	492.5	498.1	502.4	506.2	508.7	508.7	508.7
40°	449.0	457.7	464.6	473.3	482.0	486.9	491.9	495.6	498.1	498.7	499.3
42.5°	433.5	442.8	450.9	460.2	468.9	475.1	480.7	485.1	487.5	488.8	488.2
45°	419.2	427.9	437.2	447.8	455.9	462.1	468.9	473.9	476.4	477.0	477.6
47.5°	403.1	413.0	423.6	434.1	442.2	450.3	456.5	461.5	463.9	465.8	465.8
50°	387.5	398.1	409.9	421.1	429.8	437.9	444.1	449.7	452.8	454.0	454.6
52.5°	373.3	383.2	395.6	406.8	415.5	423.6	431.6	437.9	441.0	442.2	442.2
55°	355.9	368.3	382.0	392.5	401.8	411.1	419.2	425.4	428.5	430.4	431.6
57.5°	339.7	352.8	367.1	378.2	389.4	398.1	405.6	413.6	416.1	418.6	419.2
60°	324.2	337.2	350.9	363.3	374.5	383.8	392.5	399.3	403.7	404.9	406.2
62.5°	308.1	321.7	336.0	348.4	360.2	371.4	379.5	385.7	390.7	392.5	393.8
65°	292.5	306.8	321.1	334.1	346.6	357.7	365.8	372.0	377.0	380.1	380.7
67.5°	275.8	291.3	306.2	319.9	332.3	344.1	352.1	358.4	363.3	367.1	367.7
70°	260.2	276.4	291.3	306.2	318.6	330.4	339.1	345.3	350.9	353.4	354.6
72.5°	245.3	262.1	277.6	292.5	304.9	316.7	326.1	332.3	337.9	341.0	341.6
75°	231.0	247.8	264.6	278.9	291.9	303.7	313.0	319.9	324.8	327.9	329.2
77.5°	216.8	234.1	250.9	265.2	278.9	290.7	298.7	306.8	311.8	315.5	315.5
80°	202.5	220.5	237.9	252.2	265.8	276.4	285.7	293.8	298.7	302.5	302.5
82.5°	190.0	207.4	224.2	238.5	252.2	264.0	273.3	280.7	286.3	288.8	289.4
85°	175.8	195.0	210.5	226.1	239.1	250.3	259.6	267.7	272.7	275.1	276.4
87.5°	164.0	182.6	199.4	213.0	226.1	237.2	247.8	254.6	259.6	262.7	264.0
90°	152.8	170.8	187.6	201.2	214.9	225.4	235.4	242.2	247.8	250.3	251.5
92.5°	142.8	160.9	177.0	190.7	203.7	215.5	224.8	231.7	236.6	239.1	241.0
95°	133.5	150.9	166.4	181.4	193.8	204.3	214.3	221.1	226.7	228.6	230.4
97.5°	124.2	141.0	156.5	170.8	183.8	193.8	203.1	209.9	214.3	217.4	219.2
100°	116.1	132.3	147.2	160.9	173.3	182.6	192.5	198.7	203.1	205.6	208.1
102.5°	107.4	123.6	137.9	150.9	164.0	172.7	182.0	188.2	191.9	196.3	196.3
105°	100.0	114.9	129.2	141.6	152.8	163.3	171.4	177.6	182.0	185.1	185.1
107.5°	91.9	106.8	120.5	133.5	144.1	154.0	161.5	167.1	172.0	173.9	175.8
110°	85.7	98.8	112.4	124.8	134.8	144.1	151.5	157.8	162.1	164.0	165.2

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	78.3	91.9	104.3	116.1	126.1	134.8	142.2	147.2	151.5	154.0	154.6
115°	72.0	85.1	96.3	107.4	118.0	125.5	132.3	137.3	141.6	143.5	144.7
117.5°	66.5	78.3	89.4	98.8	108.7	116.8	123.6	127.9	131.7	134.2	135.4
120°	60.9	72.0	82.0	91.3	100.6	108.1	114.3	118.6	123.0	124.8	124.8
122.5°	55.3	65.8	75.1	83.8	92.5	99.4	106.2	109.9	113.7	115.5	115.5
125°	50.3	60.2	68.9	77.0	85.1	91.3	96.9	101.2	105.0	106.2	106.2
127.5°	45.3	54.7	62.7	70.2	77.0	83.2	88.8	93.2	96.3	97.5	97.5
130°	41.0	49.1	56.5	64.0	70.8	75.8	81.4	85.1	87.0	88.8	89.4
132.5°	36.6	44.1	50.9	57.1	64.0	68.9	73.3	77.0	78.9	80.7	81.4
135°	32.3	39.1	45.3	51.5	57.1	62.1	65.8	68.9	71.4	72.7	73.3
137.5°	27.3	34.8	40.4	45.3	51.5	55.3	59.6	61.5	64.0	65.2	65.2
140°	23.0	28.6	34.8	39.7	44.7	48.4	52.2	55.3	57.1	57.8	57.8
142.5°	18.6	23.6	28.6	34.8	39.1	42.2	46.0	48.4	49.7	50.3	50.9
145°	14.9	18.6	23.0	28.6	33.5	37.3	39.1	41.6	42.9	43.5	44.1
147.5°	11.2	14.9	18.6	22.4	27.3	31.1	32.9	35.4	36.6	37.3	37.3
150°	8.7	11.2	13.7	17.4	21.1	25.5	27.9	29.8	30.4	31.1	31.1
152.5°	6.2	8.7	10.6	13.0	15.5	19.3	23.0	24.2	24.8	25.5	25.5
155°	4.3	6.2	7.5	9.3	11.2	14.3	17.4	19.3	19.9	20.5	20.5
157.5°	3.1	4.3	5.0	6.8	8.1	9.3	11.8	14.9	15.5	15.5	15.5
160°	1.9	2.5	3.1	4.3	5.0	6.2	7.5	9.3	11.2	11.2	11.2
162.5°	1.2	1.9	1.9	2.5	2.5	3.7	4.3	5.0	6.8	7.5	7.5
165°	0.6	1.2	1.2	1.2	1.2	1.2	1.9	1.9	3.1	3.7	3.7
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: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	587.5	588.8	588.2	588.2	588.2	589.4	588.2	582.6	583.8	585.1	586.3
5°	586.9	587.5	587.5	586.9	586.9	588.2	586.9	581.3	582.6	583.8	584.4
7.5°	584.4	585.1	585.1	585.1	584.4	585.7	583.8	578.8	578.8	580.1	580.7
10°	581.3	582.6	581.9	581.3	581.3	581.3	580.1	574.5	574.5	575.1	575.7
12.5°	577.6	577.6	577.6	577.0	576.4	576.4	575.1	569.5	568.9	570.1	569.5
15°	572.6	573.9	572.6	572.0	570.8	570.8	568.9	563.3	562.1	562.7	562.1
17.5°	568.3	568.9	567.7	566.4	565.2	564.6	562.7	556.5	554.6	555.2	554.0
20°	563.9	563.9	562.7	561.4	559.6	557.7	555.2	549.0	545.9	545.9	543.4
22.5°	558.3	558.3	557.1	555.2	553.4	550.9	548.4	542.2	537.2	536.0	534.1
25°	552.1	551.5	550.9	549.0	545.3	542.8	540.3	533.5	527.9	525.4	522.3
27.5°	544.7	544.7	542.8	541.0	537.2	534.1	531.0	524.8	517.4	514.2	509.9
30°	536.6	536.6	534.7	532.3	528.5	524.8	521.1	513.6	506.2	501.8	496.9
32.5°	528.5	527.9	526.0	523.6	519.8	514.2	511.1	503.7	495.0	490.0	483.2
35°	518.6	518.0	516.1	513.0	508.0	503.7	498.7	491.9	482.0	475.7	468.3
37.5°	508.7	508.0	506.8	502.4	497.5	492.5	486.3	479.5	470.2	462.1	454.6
40°	498.7	498.1	495.6	492.5	486.3	480.1	473.9	467.0	457.1	447.8	439.7
42.5°	488.2	487.5	484.4	480.7	473.9	467.7	460.2	452.8	442.8	431.6	423.6
45°	477.6	476.4	473.3	468.9	461.5	454.6	447.2	438.5	428.5	418.0	407.4
47.5°	466.4	464.6	461.5	455.2	449.0	441.6	432.9	423.6	413.6	401.8	390.7
50°	454.0	452.8	449.0	443.4	436.0	428.5	418.6	409.3	397.5	386.3	372.6
52.5°	442.2	439.7	436.6	430.4	423.0	414.9	404.3	393.1	381.3	370.8	356.5
55°	429.8	428.5	424.2	419.2	409.9	400.6	390.7	378.9	365.8	353.4	339.7
57.5°	418.0	415.5	411.8	404.9	396.9	387.5	377.0	364.6	350.3	337.2	322.3
60°	406.2	402.5	398.1	391.9	383.2	373.3	362.1	349.0	334.8	320.5	304.9
62.5°	393.1	390.0	385.1	378.9	370.2	359.6	347.8	334.1	320.5	305.6	288.8
65°	380.1	377.0	372.0	365.8	357.1	345.3	332.9	319.2	303.7	289.4	271.4
67.5°	367.1	363.9	358.4	351.5	342.8	331.7	318.6	304.3	288.8	273.3	254.6
70°	354.0	350.3	345.3	337.9	329.2	317.4	304.3	289.4	273.9	257.1	238.5
72.5°	341.0	337.9	331.7	324.8	315.5	303.7	290.7	275.8	259.6	242.2	223.6
75°	327.9	324.2	319.9	311.8	301.8	290.7	277.0	262.1	244.7	227.9	208.7
77.5°	314.9	311.8	306.2	298.1	288.8	277.0	263.3	248.4	231.0	213.6	193.2
80°	301.8	298.1	293.8	286.3	275.8	264.0	249.7	234.8	217.4	199.4	178.9
82.5°	288.8	285.1	280.1	272.7	262.7	250.9	237.2	221.1	203.7	185.1	165.8
85°	275.8	272.7	267.1	259.6	249.0	237.2	223.6	209.3	190.7	172.0	152.8
87.5°	262.7	259.6	254.0	246.6	236.6	224.8	211.2	196.3	178.2	160.9	139.7
90°	250.3	247.8	242.2	234.8	224.8	213.0	200.6	184.5	167.1	149.7	129.8
92.5°	239.1	236.6	231.7	224.2	215.5	202.5	190.0	174.5	157.1	139.1	119.9
95°	229.2	226.1	221.1	214.3	203.7	192.5	180.1	164.6	147.8	129.8	111.2
97.5°	218.0	214.9	209.9	202.5	193.8	182.0	169.6	154.6	137.9	121.1	102.5
100°	206.8	203.7	198.1	191.9	183.2	171.4	159.6	144.7	129.2	113.0	95.0
102.5°	195.6	192.5	187.6	181.4	172.7	162.1	150.3	136.0	120.5	104.3	87.6
105°	185.1	182.0	177.0	170.8	162.7	152.2	139.7	127.3	112.4	96.9	80.7
107.5°	174.5	171.4	167.1	160.9	152.8	142.8	131.0	118.0	104.3	89.4	73.9
110°	164.0	161.5	156.5	150.9	142.8	132.9	122.4	109.9	96.3	82.6	67.7

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	154.0	151.5	146.6	140.4	133.5	124.2	113.7	101.9	88.8	75.8	61.5
115°	144.1	141.0	136.6	131.0	124.2	115.5	105.6	95.0	82.0	69.6	56.5
117.5°	134.2	131.7	127.3	121.7	115.5	106.8	97.5	87.6	75.1	63.3	51.5
120°	124.2	122.4	118.0	113.0	106.8	98.8	90.1	80.1	68.9	57.8	46.6
122.5°	114.9	113.0	108.7	104.3	98.1	90.7	82.6	73.3	63.3	52.8	42.9
125°	106.2	103.7	100.0	95.6	90.1	83.2	75.1	66.5	57.1	47.8	38.5
127.5°	96.9	95.0	92.5	87.6	82.0	75.8	68.3	60.9	52.2	43.5	34.8
130°	89.4	87.0	83.8	80.1	75.1	68.9	62.1	54.7	47.2	39.1	30.4
132.5°	80.7	78.3	75.8	72.0	67.7	62.1	55.9	49.1	42.2	34.8	27.3
135°	72.7	70.8	68.3	64.6	60.2	55.9	49.7	43.5	37.3	30.4	24.2
137.5°	65.2	63.3	60.9	58.4	54.0	49.7	44.1	38.5	32.9	26.7	21.1
140°	57.8	56.5	54.0	51.5	47.8	43.5	38.5	33.5	28.6	23.0	18.0
142.5°	50.3	49.1	47.2	44.7	41.6	37.9	33.5	29.2	24.2	19.9	15.5
145°	43.5	42.9	41.0	38.5	36.0	32.3	28.6	24.8	20.5	16.8	12.4
147.5°	36.6	36.0	34.8	32.9	30.4	27.3	24.2	20.5	17.4	13.7	9.9
150°	30.4	29.8	29.2	26.7	25.5	22.4	19.9	16.8	14.3	10.6	8.1
152.5°	24.8	24.8	23.6	21.7	20.5	18.0	16.1	13.7	11.2	8.7	6.2
155°	19.9	19.3	18.6	17.4	16.1	14.3	12.4	10.6	8.7	6.2	4.3
157.5°	15.5	14.9	14.3	13.0	11.8	11.2	9.3	7.5	5.6	4.3	3.1
160°	11.2	10.6	9.9	9.3	8.7	7.5	6.2	5.0	3.7	2.5	1.9
162.5°	7.5	6.8	6.8	6.2	5.6	4.3	3.7	3.1	2.5	1.9	1.2
165°	3.7	3.7	3.1	3.1	2.5	1.9	1.9	1.9	1.2	1.2	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: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	585.7	585.7	588.2	587.5	585.7	589.4	593.7
5°	583.8	583.8	585.7	585.7	583.8	587.5	591.3
7.5°	580.7	580.1	581.9	581.9	579.5	582.6	586.9
10°	575.1	574.5	576.4	576.4	573.9	577.0	580.7
12.5°	568.9	567.7	569.5	568.9	566.4	569.5	573.2
15°	560.8	560.2	561.4	560.2	557.7	560.8	564.6
17.5°	552.8	550.9	551.5	551.5	547.2	550.3	553.4
20°	542.2	539.7	540.3	539.7	536.6	538.5	542.2
22.5°	531.6	527.9	527.9	527.3	523.6	526.0	529.2
25°	518.6	514.2	514.2	513.6	509.3	511.1	514.2
27.5°	505.6	501.2	499.3	498.7	494.4	494.4	498.7
30°	491.9	485.7	484.4	482.6	478.2	478.2	482.0
32.5°	478.8	470.2	467.7	465.2	460.8	460.2	464.6
35°	461.5	454.6	450.3	447.8	442.8	441.6	445.3
37.5°	447.2	438.5	432.3	429.2	424.2	422.3	427.3
40°	431.6	422.3	414.3	412.4	404.9	402.5	406.8
42.5°	414.3	404.3	396.2	392.5	386.9	384.4	385.1
45°	396.9	386.3	377.6	372.6	367.1	362.7	365.2
47.5°	378.9	369.5	359.0	351.5	344.7	341.6	342.8
50°	360.8	349.7	339.7	331.7	323.6	319.9	322.3
52.5°	342.8	331.0	319.9	311.2	301.8	298.1	298.7
55°	325.4	313.0	300.0	290.7	282.0	276.4	275.1
57.5°	308.1	294.4	280.7	270.2	259.0	254.0	252.2
60°	289.4	275.1	260.9	248.4	236.6	231.0	228.6
62.5°	272.0	256.5	240.4	227.3	215.5	208.1	206.2
65°	255.3	237.2	221.1	206.2	193.2	185.1	182.6
67.5°	237.2	218.6	201.2	185.1	172.7	162.1	160.9
70°	220.5	200.6	181.4	164.6	150.9	140.4	135.4
72.5°	203.7	183.2	163.3	145.3	127.9	118.0	114.3
75°	187.6	166.4	145.3	126.7	107.4	95.6	91.9
77.5°	172.7	150.9	128.6	108.1	90.1	75.1	70.2
80°	158.4	136.0	112.4	91.3	72.0	55.9	50.3
82.5°	143.5	122.4	98.1	75.8	55.9	39.1	32.3
85°	130.4	109.3	85.1	62.7	42.9	24.8	17.4
87.5°	119.9	96.9	75.1	52.8	32.3	14.3	5.0
90°	109.3	87.0	65.2	43.5	24.2	8.1	0.6
92.5°	100.0	78.9	57.1	37.3	18.6	5.6	0.6
95°	91.3	70.8	50.3	31.1	14.9	3.7	0.6
97.5°	83.2	64.0	44.7	26.7	12.4	3.1	0.6
100°	76.4	57.8	39.7	23.6	10.6	2.5	0.6
102.5°	69.6	52.2	35.4	20.5	9.3	1.9	0.6
105°	64.0	47.2	31.7	18.6	8.1	1.9	0.6
107.5°	58.4	42.9	28.6	16.1	6.8	1.2	0.6
110°	52.8	39.1	25.5	14.3	6.2	1.2	0.6

TEST NUMBER: P1213692

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	48.4	35.4	23.0	13.0	5.0	1.2	0.6
115°	44.1	31.7	20.5	11.2	4.3	0.6	0.6
117.5°	39.7	28.6	18.0	9.9	3.7	0.6	0.6
120°	36.0	25.5	16.1	8.7	3.1	0.6	0.6
122.5°	32.3	23.0	14.3	7.5	2.5	0.6	0.6
125°	29.2	20.5	12.4	6.2	1.9	0.6	0.6
127.5°	26.1	18.0	11.2	5.6	1.9	0.6	0.6
130°	23.0	16.1	9.3	4.3	1.2	0.6	0.6
132.5°	20.5	13.7	8.1	3.7	1.2	0.6	0.6
135°	18.0	11.8	6.8	2.5	1.2	0.6	0.6
137.5°	15.5	9.9	5.6	1.9	0.6	0.6	0.6
140°	13.0	8.7	4.3	1.9	0.6	0.6	0.6
142.5°	11.2	6.8	3.1	1.2	0.6	0.6	0.6
145°	8.7	5.6	2.5	1.2	0.6	0.6	0.6
147.5°	6.8	4.3	1.9	1.2	0.6	0.6	0.6
150°	5.0	3.1	1.9	0.6	0.6	0.6	0.6
152.5°	3.7	2.5	1.2	0.6	0.6	0.6	0.6
155°	2.5	1.9	1.2	0.6	0.6	0.6	0.6
157.5°	1.9	1.2	0.6	0.6	0.6	0.6	0.6
160°	1.2	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)