

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: P1212990

Luminaire Tested: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212990
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

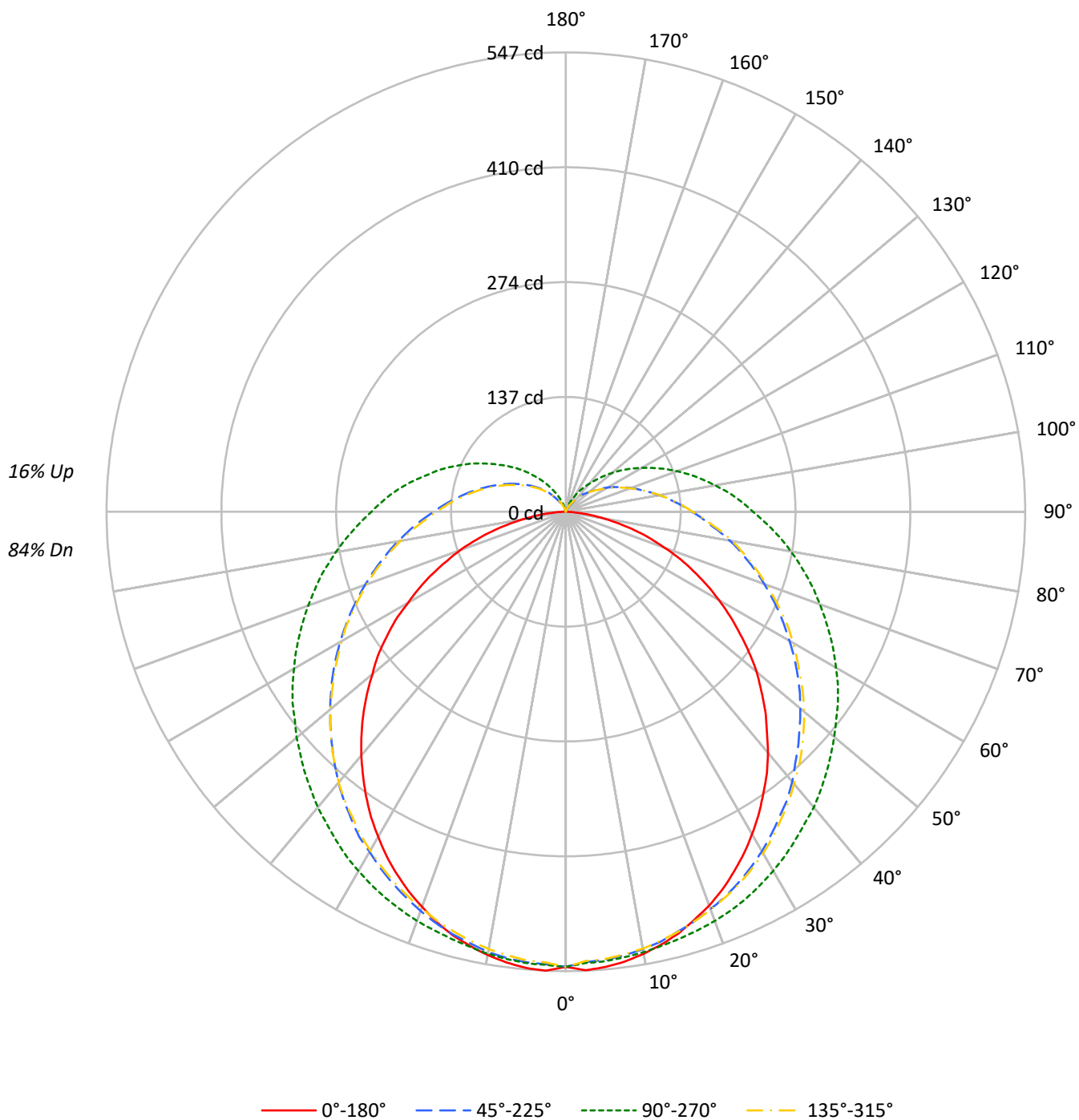
Lumens per Lamp: N/A
Luminaire Lumens: 2354.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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	84	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64	64	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51	51	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42	42	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35	35	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30	30	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26	26	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23	23	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20	20	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18	18	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8757	8757	8757	8757
5°	8779	8438	8799	8474
10°	8675	8200	8702	8226
15°	8549	7994	8587	8003
20°	8392	7844	8420	7844
25°	8200	7711	8250	7702
30°	7988	7574	8050	7574
35°	7746	7448	7833	7456
40°	7505	7372	7596	7372
45°	7230	7294	7340	7304
50°	6941	7248	7034	7269
55°	6550	7255	6757	7286
60°	6134	7277	6335	7322
65°	5665	7350	5918	7424
70°	5025	7486	5416	7593
75°	4284	7730	4689	7878
80°	3182	8094	3614	8279
85°	1731	8675	2163	8913

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 9967 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	2.2
10°-20°	147.5	6.3
20°-30°	226.2	9.6
30°-40°	279.0	11.9
40°-50°	302.7	12.9
50°-60°	298.4	12.7
60°-70°	269.8	11.5
70°-80°	224.7	9.5
80°-90°	174.1	7.4
90°-100°	132.0	5.6
100°-110°	97.7	4.2
110°-120°	68.0	2.9
120°-130°	43.4	1.8
130°-140°	24.3	1.0
140°-150°	11.1	0.5
150°-160°	3.4	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	425.0	18.1
0°-40°	704.0	29.9
0°-60°	1305.1	55.4
0°-90°	1973.7	83.8
90°-120°	297.7	12.6
90°-150°	376.5	16.0
90°-180°	380.0	16.1
0°-180°	2354.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	542	542	542	542	542	
5°	544	537	545	540	544	52
15°	520	526	522	526	520	146
25°	473	508	476	508	473	218
35°	410	477	414	477	410	257
45°	336	439	341	440	336	259
55°	253	396	261	397	253	227
65°	168	347	176	350	168	167
75°	85	297	93	303	85	90
85°	16	248	20	254	16	19
90°	1	223	1	232	1	1
95°	1	202	1	212	1	0
105°	1	161	1	170	1	1
115°	1	122	1	133	1	1
125°	1	88	1	98	1	1
135°	1	57	1	67	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°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	546.4	546.4	545.8	544.7	545.3	547.0	545.8	543.0	541.3	536.7	537.8
5°	544.1	544.1	543.5	542.4	543.0	545.3	544.1	541.8	539.5	535.5	537.2
7.5°	540.1	540.1	539.5	538.4	539.5	541.8	540.7	538.4	536.7	532.7	534.4
10°	534.4	535.0	534.4	532.7	535.0	537.2	536.7	533.8	532.1	528.7	530.4
12.5°	527.5	528.1	527.5	527.0	528.1	531.5	530.4	528.1	527.0	524.1	525.8
15°	519.5	520.1	519.0	519.0	520.1	523.5	523.5	521.2	520.1	517.2	520.7
17.5°	509.2	509.8	509.2	509.2	510.4	513.8	514.4	513.2	512.1	511.0	514.4
20°	499.0	498.4	498.4	497.8	500.1	505.2	504.7	504.7	503.5	503.5	507.5
22.5°	487.0	487.0	486.4	486.4	489.2	493.8	493.8	495.0	493.8	496.1	499.5
25°	473.2	473.8	473.2	474.4	476.7	481.8	482.4	484.1	484.7	487.0	491.0
27.5°	458.9	459.5	458.9	460.1	464.1	468.1	471.0	473.2	473.8	477.2	482.4
30°	443.5	443.5	444.1	445.2	449.8	456.1	458.4	461.2	461.2	466.9	472.1
32.5°	427.5	427.5	427.5	429.8	434.9	442.4	445.2	448.7	449.8	455.5	461.2
35°	409.8	410.4	410.4	412.1	418.9	426.4	430.4	434.4	436.7	443.5	449.2
37.5°	393.2	394.4	392.6	394.9	404.7	410.9	415.5	419.5	423.5	432.7	437.2
40°	374.4	375.5	374.9	379.5	387.5	395.5	400.7	404.7	410.4	419.5	424.7
42.5°	354.4	355.5	356.6	361.8	370.4	378.4	384.6	389.8	396.7	404.7	413.2
45°	336.1	336.1	337.8	344.1	353.2	361.8	369.2	374.9	382.9	391.5	400.1
47.5°	315.5	316.1	318.3	325.8	335.5	345.8	352.6	360.1	368.6	377.8	387.5
50°	296.6	296.6	300.1	308.1	317.2	328.6	336.1	344.6	353.8	364.6	374.4
52.5°	274.9	276.1	281.2	288.6	300.6	310.9	319.5	328.6	339.5	350.9	361.8
55°	253.2	255.5	259.5	269.8	282.3	292.1	302.3	313.8	324.1	336.6	349.2
57.5°	232.0	233.8	240.0	250.3	263.5	275.5	286.3	297.2	309.8	322.3	335.5
60°	210.3	212.6	220.0	230.3	244.6	257.2	269.8	281.2	294.3	307.5	321.2
62.5°	189.8	191.5	200.0	212.0	226.3	240.0	252.6	266.3	280.6	293.2	306.9
65°	168.0	170.9	180.6	191.5	208.0	221.8	236.0	250.9	265.8	279.5	292.6
67.5°	148.0	149.7	160.0	172.6	189.2	204.6	219.5	235.5	250.9	265.2	278.3
70°	124.6	130.3	140.6	153.7	171.5	187.5	203.5	220.0	236.6	251.5	264.1
72.5°	105.2	109.7	121.2	135.5	152.6	171.5	188.0	205.8	222.3	237.8	250.9
75°	84.6	89.2	102.3	118.3	136.0	156.0	173.2	191.5	208.6	224.0	237.8
77.5°	64.6	70.3	84.6	101.2	120.6	141.2	158.9	177.2	194.9	211.5	225.2
80°	46.3	52.6	68.0	86.9	105.7	126.3	145.7	164.0	181.8	198.3	212.6
82.5°	29.7	36.6	53.2	72.0	92.0	112.6	132.6	150.9	168.6	185.2	200.0
85°	16.0	23.4	40.6	59.4	79.4	100.0	120.0	139.5	156.6	172.0	188.0
87.5°	4.6	13.7	30.3	49.2	69.7	88.6	108.0	127.5	144.6	161.2	175.5
90°	0.6	8.0	22.9	40.6	60.6	78.9	98.3	116.6	133.7	150.3	164.6
92.5°	0.6	5.1	17.7	33.7	52.0	70.9	90.3	108.0	124.0	140.6	154.9
95°	0.6	4.0	14.3	28.6	45.7	63.4	81.7	98.9	115.5	130.9	145.2
97.5°	0.6	2.9	11.4	24.6	40.0	56.6	74.3	91.4	107.4	122.3	135.5
100°	0.6	2.3	9.1	21.1	34.9	50.9	66.9	83.4	98.9	113.2	126.9
102.5°	0.6	1.7	8.0	17.7	30.9	45.2	60.6	76.0	90.9	104.6	118.3
105°	0.6	1.7	6.9	15.4	27.4	40.6	54.9	69.7	83.4	96.6	109.2
107.5°	0.6	1.1	5.7	13.1	24.0	36.6	49.7	64.0	76.6	89.2	101.2
110°	0.6	1.1	4.6	12.0	21.1	32.6	45.2	58.3	70.3	82.3	93.7

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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	18.3	29.1	40.6	52.6	64.0	76.0	86.3
115°	0.6	1.1	3.4	9.1	17.1	25.1	36.6	47.4	58.9	69.7	79.4
117.5°	0.6	1.1	2.9	7.4	14.9	22.9	32.0	42.9	53.2	63.4	72.6
120°	0.6	1.1	2.3	6.9	13.1	20.6	28.6	38.3	48.0	57.7	67.4
122.5°	0.6	0.6	2.3	5.7	11.4	18.3	26.3	33.7	42.9	52.0	60.6
125°	0.6	0.6	2.3	5.1	9.7	16.6	23.4	30.3	38.3	46.3	53.7
127.5°	0.6	0.6	1.7	4.0	8.6	14.3	20.6	28.0	33.7	41.2	48.6
130°	0.6	0.6	1.7	3.4	7.4	12.0	18.3	24.6	31.4	36.6	42.9
132.5°	0.6	0.6	1.7	2.9	5.7	9.7	15.4	21.1	27.4	33.1	38.3
135°	0.6	0.6	1.1	2.3	4.6	8.0	12.6	17.7	24.0	29.7	34.9
137.5°	0.6	0.6	1.1	2.3	3.4	6.9	9.7	14.3	20.0	25.1	30.3
140°	0.6	0.6	1.1	1.7	2.9	5.1	8.0	11.4	16.0	20.6	26.3
142.5°	0.6	0.6	0.6	1.7	2.3	4.0	6.3	9.1	12.6	16.6	21.1
145°	0.6	0.6	0.6	1.7	2.3	2.9	5.1	7.4	9.7	12.6	16.6
147.5°	0.6	0.6	0.6	1.1	1.7	2.3	4.0	5.7	7.4	9.7	12.0
150°	0.6	0.6	0.6	1.1	1.7	2.3	2.9	4.0	5.7	8.0	9.7
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	5.1
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°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	537.8	538.4	540.1	540.1	539.0	539.0	538.4	537.8	538.4	539.5	539.5
5°	536.7	537.2	539.0	539.5	538.4	537.8	537.8	537.2	537.8	539.0	539.0
7.5°	534.4	535.0	536.7	537.2	536.1	536.1	535.5	535.0	536.1	536.7	536.7
10°	531.0	531.5	533.8	534.4	533.8	533.2	533.2	532.7	533.2	534.4	534.4
12.5°	526.4	527.5	530.4	530.4	530.4	529.8	529.8	529.2	529.8	531.0	530.4
15°	521.2	523.5	525.8	527.0	527.0	527.0	526.4	525.8	527.0	527.5	527.0
17.5°	515.5	518.4	521.8	523.0	523.0	523.5	523.0	522.4	523.5	523.5	523.0
20°	509.8	512.7	516.1	517.2	518.4	519.0	519.0	518.4	519.0	519.5	519.0
22.5°	502.4	505.8	509.8	511.5	512.7	513.8	513.8	513.8	514.4	515.0	513.8
25°	494.4	498.4	503.0	504.7	507.0	507.5	508.1	508.1	508.7	509.2	507.5
27.5°	485.8	490.4	495.0	497.8	499.5	500.7	500.7	501.2	501.8	502.4	500.7
30°	475.5	482.4	486.4	488.7	491.0	492.7	493.2	493.8	494.4	495.0	493.2
32.5°	466.4	472.1	477.2	480.1	483.0	485.2	485.8	485.8	487.0	487.0	485.2
35°	455.5	462.4	467.5	470.4	473.8	475.5	476.7	476.7	477.8	477.8	476.1
37.5°	444.7	451.5	457.2	460.7	464.7	466.9	467.5	467.5	468.7	468.7	466.4
40°	433.2	440.7	446.9	450.9	454.4	457.2	457.8	459.5	459.5	458.9	456.7
42.5°	421.8	428.7	435.5	440.1	444.7	447.5	448.7	449.2	449.2	448.7	446.9
45°	409.2	417.2	423.5	429.2	433.8	436.7	438.4	438.9	438.9	437.8	436.1
47.5°	397.2	405.2	411.5	417.8	422.4	425.8	427.5	428.1	427.5	426.9	425.2
50°	384.6	393.8	400.1	406.4	410.9	413.8	416.7	417.2	416.7	416.1	412.7
52.5°	371.5	381.2	388.1	394.4	399.5	402.9	405.2	405.8	405.8	404.7	402.4
55°	358.4	366.9	375.5	382.4	388.1	391.5	394.4	395.5	394.4	393.2	390.4
57.5°	346.4	354.4	362.9	370.4	376.1	380.6	382.9	384.1	382.9	381.2	378.4
60°	332.1	340.6	350.4	357.2	363.5	368.1	369.2	371.5	370.4	368.6	365.8
62.5°	318.3	328.6	337.2	345.8	350.9	356.1	358.4	359.5	358.4	356.6	353.8
65°	304.1	315.5	324.1	332.6	338.4	343.5	346.4	346.9	345.8	344.1	341.2
67.5°	290.9	301.8	310.9	320.1	325.2	330.4	333.2	334.4	333.2	330.9	328.1
70°	277.8	288.6	299.5	306.3	312.6	318.3	320.1	321.8	320.6	318.3	314.9
72.5°	264.6	276.1	286.9	293.8	300.6	305.8	308.1	309.8	308.6	306.3	302.3
75°	250.9	262.9	273.8	281.2	288.1	293.2	295.5	297.2	296.1	293.8	289.2
77.5°	238.3	250.3	260.6	268.6	275.5	280.1	284.1	284.6	283.5	281.2	276.6
80°	225.2	237.2	248.0	256.1	262.9	267.5	270.3	272.1	270.9	268.6	264.1
82.5°	213.8	224.6	235.5	243.5	250.3	256.1	258.3	260.1	259.5	256.1	252.6
85°	201.2	213.8	222.3	230.9	237.8	243.5	245.2	247.5	246.9	244.0	239.5
87.5°	188.6	201.2	211.5	220.0	226.3	230.9	233.8	234.9	234.3	231.5	226.3
90°	178.3	189.8	200.0	209.2	214.3	219.5	222.3	222.9	222.9	219.5	215.5
92.5°	168.6	179.5	189.8	198.3	204.6	209.2	211.5	212.6	212.0	209.2	204.6
95°	157.7	169.7	179.5	188.0	194.3	198.9	201.2	202.3	201.8	198.9	194.3
97.5°	148.6	159.5	169.2	177.2	183.5	188.0	190.3	191.5	191.5	188.6	184.0
100°	139.5	150.3	159.5	167.5	173.2	177.7	180.0	180.6	180.0	177.7	173.2
102.5°	130.3	140.6	149.7	157.2	163.5	167.5	169.7	170.3	170.3	167.5	162.9
105°	121.2	131.5	140.0	148.0	153.2	157.2	158.9	160.6	160.0	157.7	153.2
107.5°	112.6	122.9	130.9	138.3	143.5	147.5	149.2	150.9	150.3	148.0	143.5
110°	104.6	114.3	121.7	129.2	133.7	137.7	140.6	141.2	140.0	137.7	133.7

TEST NUMBER: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	97.2	105.7	113.2	120.0	125.2	128.0	130.3	131.5	130.3	128.0	125.2
115°	89.2	97.7	105.2	111.5	116.0	119.5	121.2	122.3	121.2	118.9	116.0
117.5°	81.7	89.7	97.2	103.4	107.4	110.3	112.0	113.2	112.0	110.3	107.4
120°	75.4	82.3	89.2	94.9	99.4	101.7	103.4	104.6	104.0	101.7	98.9
122.5°	68.0	75.4	81.7	87.4	91.4	93.7	94.9	96.0	95.4	93.7	90.9
125°	61.7	68.0	74.3	79.4	83.4	85.7	86.9	88.0	87.4	85.7	82.3
127.5°	54.9	61.7	66.9	72.0	74.9	78.3	78.9	80.0	79.4	77.7	74.9
130°	49.7	54.9	60.0	64.6	68.0	70.3	71.4	72.0	70.9	69.7	66.9
132.5°	43.4	49.2	53.7	57.7	60.0	62.3	63.4	64.0	64.0	62.3	60.0
135°	38.9	42.9	46.9	50.9	53.2	55.4	56.6	57.2	56.6	55.4	53.2
137.5°	34.9	38.3	41.2	44.6	47.4	48.6	49.7	49.7	49.2	48.6	46.9
140°	30.3	34.3	37.2	39.4	41.7	42.3	43.4	43.4	42.9	42.3	41.2
142.5°	25.7	29.1	32.0	34.9	36.6	37.7	38.3	38.9	38.3	37.7	36.0
145°	20.6	24.6	27.4	29.1	31.4	32.0	32.6	33.1	32.6	32.0	30.3
147.5°	16.0	19.4	22.3	24.6	26.3	26.9	27.4	28.0	27.4	26.3	25.7
150°	11.4	14.3	17.7	20.0	21.1	22.3	22.3	22.3	22.9	21.7	20.6
152.5°	9.1	10.3	12.6	14.9	16.6	17.1	17.7	17.7	17.1	17.1	16.0
155°	6.3	7.4	9.1	10.9	12.6	13.1	13.7	13.7	13.1	13.1	12.6
157.5°	4.0	5.1	6.3	7.4	9.1	9.7	10.3	10.3	10.3	9.7	9.1
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: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	539.0	539.0	539.5	538.4	535.0	535.5	535.5	537.8	539.0	539.5	542.4
5°	537.8	537.8	539.0	537.2	534.4	534.4	534.4	536.7	537.2	538.4	540.7
7.5°	536.1	536.1	536.7	535.0	531.5	531.5	531.0	533.2	534.4	535.0	537.2
10°	533.2	533.2	533.8	532.1	528.1	528.1	527.5	529.2	529.8	531.0	532.7
12.5°	529.2	529.2	529.2	527.5	523.5	523.0	522.4	524.1	524.1	524.7	526.4
15°	525.8	524.7	524.7	523.0	519.0	517.8	516.7	517.2	518.4	517.8	519.0
17.5°	521.8	520.7	519.5	517.8	512.7	511.0	509.8	510.4	509.8	509.2	510.4
20°	517.2	515.5	515.0	512.1	507.0	504.1	501.8	500.7	501.2	499.5	500.1
22.5°	512.1	509.8	508.7	505.2	500.1	496.7	493.8	491.5	491.0	488.7	489.2
25°	505.8	503.0	501.2	498.4	492.7	488.7	485.2	481.8	480.1	477.2	476.7
27.5°	498.4	495.5	493.2	490.4	484.7	479.5	475.5	471.0	468.7	465.2	463.5
30°	491.0	487.5	484.1	481.8	475.5	469.8	463.5	459.5	456.1	452.1	449.2
32.5°	481.8	478.4	475.0	471.5	465.8	458.9	453.8	447.5	443.5	438.9	435.5
35°	472.7	468.1	464.7	460.1	454.9	446.9	440.7	434.4	429.2	424.1	420.1
37.5°	462.4	458.9	453.8	449.8	443.5	435.5	428.7	420.7	416.1	409.2	404.1
40°	452.7	448.7	443.5	438.4	432.1	422.9	415.5	406.4	401.2	393.2	388.1
42.5°	442.9	437.2	432.1	426.4	419.5	410.9	401.8	392.6	385.8	378.4	370.9
45°	432.1	425.8	419.5	413.2	406.4	397.8	388.1	378.4	369.8	362.9	353.8
47.5°	420.7	414.4	406.9	400.1	392.6	384.1	373.8	363.5	354.4	346.4	336.6
50°	409.2	402.9	394.9	387.5	378.9	370.4	359.5	347.5	337.8	327.5	318.9
52.5°	397.2	390.9	383.5	373.8	364.6	356.1	344.6	332.1	321.2	312.6	301.8
55°	385.2	378.9	370.4	360.6	351.5	340.6	329.8	317.2	305.2	294.9	284.1
57.5°	372.6	366.9	357.2	349.2	337.8	326.4	314.9	302.9	289.8	277.8	265.2
60°	360.1	353.8	344.6	334.9	323.5	312.1	300.1	286.9	273.2	260.1	248.6
62.5°	348.6	340.6	332.1	321.8	309.8	298.9	285.2	270.9	257.2	243.5	229.8
65°	335.5	326.9	318.9	308.6	296.1	283.5	269.8	255.5	240.6	225.8	212.0
67.5°	322.3	313.8	305.2	294.9	281.8	268.6	254.3	240.0	223.5	209.2	193.2
70°	309.2	302.3	291.5	280.6	268.6	254.3	240.0	224.6	207.5	192.0	175.5
72.5°	296.1	289.2	278.3	266.9	255.5	240.6	225.2	209.8	193.8	176.0	158.3
75°	283.5	274.9	265.2	254.3	242.3	226.9	211.5	195.5	176.6	160.0	141.7
77.5°	271.5	263.5	253.8	241.8	228.6	213.8	197.8	181.2	162.3	144.6	124.6
80°	258.3	250.3	240.6	228.6	215.5	201.2	184.0	166.9	148.6	129.2	108.6
82.5°	245.8	238.3	227.5	216.6	202.3	188.0	170.9	153.7	134.3	115.5	95.4
85°	232.6	225.2	214.9	203.5	189.8	174.3	158.3	141.2	121.7	102.3	82.3
87.5°	221.2	212.6	202.3	190.9	177.2	162.3	146.9	128.6	109.7	90.9	70.3
90°	209.2	201.2	190.9	179.5	165.7	150.9	134.9	117.7	99.4	80.0	60.6
92.5°	198.9	190.3	180.6	169.2	155.5	141.2	125.2	108.0	90.3	71.4	52.6
95°	188.6	180.0	170.9	159.5	145.7	131.5	115.5	98.9	81.7	63.4	45.7
97.5°	177.2	169.7	160.6	149.7	136.0	122.3	106.9	90.9	74.3	56.6	40.0
100°	168.0	159.5	150.9	139.5	126.9	113.7	98.3	82.9	66.9	50.3	34.9
102.5°	157.7	149.7	141.2	130.3	117.7	104.6	90.3	75.4	60.6	45.2	30.3
105°	148.0	140.6	131.5	121.2	109.2	96.6	82.9	69.2	54.9	40.0	26.9
107.5°	138.3	130.9	122.3	112.6	101.2	88.6	76.0	62.3	49.2	36.0	24.0
110°	128.6	121.7	113.7	104.0	93.2	81.7	69.7	57.2	44.0	32.0	21.1

TEST NUMBER: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	120.0	113.2	105.2	96.0	85.7	74.9	63.4	51.4	39.4	28.6	18.3
115°	111.5	105.2	97.2	89.2	78.9	68.6	57.7	46.3	35.4	25.7	16.0
117.5°	102.9	96.6	89.2	81.2	72.0	62.3	52.0	41.2	32.0	22.9	14.3
120°	94.3	88.6	81.7	74.3	66.3	56.6	46.3	37.2	28.6	20.0	12.6
122.5°	86.3	81.2	74.9	68.0	59.4	50.3	41.7	33.7	25.7	17.7	10.3
125°	78.9	73.7	68.0	61.2	53.2	45.2	37.7	30.3	22.3	15.4	8.6
127.5°	71.4	66.3	60.6	54.3	48.0	40.6	33.7	26.9	20.0	13.7	7.4
130°	64.0	59.4	54.3	49.2	42.9	36.0	30.3	23.4	17.1	10.9	6.3
132.5°	56.6	53.2	48.6	43.4	37.7	32.6	26.3	20.6	14.9	9.7	5.7
135°	50.3	46.9	42.9	38.3	33.7	28.6	22.9	17.7	12.6	8.0	4.6
137.5°	44.6	41.7	37.7	33.7	29.7	24.6	20.0	14.9	10.3	6.9	3.4
140°	39.4	36.6	33.1	29.1	25.7	21.1	16.6	12.0	9.1	5.7	2.9
142.5°	34.3	31.4	28.6	25.1	21.7	17.7	13.7	10.3	7.4	4.6	2.9
145°	29.1	26.9	24.0	21.1	17.7	14.3	11.4	8.6	5.7	3.4	2.3
147.5°	24.0	22.3	19.4	17.1	14.3	11.4	9.1	6.9	4.6	2.9	1.7
150°	19.4	17.7	15.4	13.1	11.4	9.1	7.4	5.1	3.4	2.9	1.7
152.5°	14.9	13.7	12.0	10.9	9.1	6.9	5.1	4.0	2.9	2.3	1.1
155°	12.0	10.9	9.7	8.0	6.9	5.1	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	5.1	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: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	542.4	540.7	543.0	547.0	547.5	547.0	545.8	547.5	549.8	549.3	545.3
5°	541.3	539.0	541.3	545.3	545.3	544.7	544.1	545.8	548.1	547.5	544.1
7.5°	537.8	535.5	537.8	541.3	541.8	540.7	540.7	542.4	544.7	544.1	541.3
10°	533.2	531.0	532.1	536.1	537.2	536.1	536.1	537.8	540.7	540.1	536.7
12.5°	526.4	524.7	525.8	529.2	530.4	529.8	529.2	531.5	534.4	534.4	531.0
15°	519.0	516.7	517.8	521.8	522.4	521.2	521.8	523.5	527.0	527.0	524.1
17.5°	510.4	507.5	509.2	512.1	512.7	512.7	512.7	515.0	519.0	518.4	516.1
20°	500.7	496.7	497.8	500.7	501.8	501.8	501.8	505.8	508.7	508.7	506.4
22.5°	489.2	486.4	486.4	489.2	491.0	490.4	490.4	493.8	497.8	497.2	497.2
25°	476.1	473.8	472.7	476.1	476.7	477.2	478.4	481.8	486.4	486.4	487.0
27.5°	462.4	460.1	459.5	462.4	462.9	463.5	464.7	468.7	473.2	473.8	475.0
30°	449.2	445.8	444.7	446.9	448.1	448.7	448.7	454.9	458.9	460.7	462.9
32.5°	433.8	430.4	427.5	431.5	432.1	433.2	433.8	440.1	444.7	447.5	450.9
35°	418.4	412.7	411.5	414.4	415.5	416.1	417.2	424.1	430.4	432.7	437.2
37.5°	401.2	397.2	393.8	396.7	397.8	398.4	401.8	408.1	414.4	417.8	422.4
40°	385.2	380.1	377.2	378.9	380.1	380.6	384.6	391.5	398.9	402.9	408.7
42.5°	367.5	360.6	358.4	360.1	360.6	362.4	365.8	374.9	382.4	388.1	392.6
45°	349.8	344.6	339.5	341.2	341.8	342.9	348.1	357.8	365.8	372.6	377.8
47.5°	331.5	325.2	320.1	321.2	323.5	324.1	329.8	341.2	348.6	356.1	362.9
50°	313.2	304.6	300.6	300.6	301.8	304.6	312.1	323.5	331.5	340.1	347.5
52.5°	294.3	286.3	281.8	282.3	283.5	286.9	293.8	305.2	314.3	323.5	332.6
55°	275.5	266.9	262.3	261.2	262.3	266.9	274.9	286.9	296.1	306.9	316.6
57.5°	256.6	246.3	242.3	240.6	241.8	247.5	255.5	268.1	279.5	289.8	301.2
60°	236.0	228.0	221.2	217.2	220.0	227.5	236.0	249.2	261.2	272.6	285.2
62.5°	218.3	208.0	200.6	196.6	199.5	205.8	217.8	230.3	243.5	256.6	269.2
65°	198.3	188.0	179.5	175.5	178.3	185.8	197.8	211.5	225.8	238.9	253.8
67.5°	178.9	168.0	157.7	153.7	157.2	165.2	178.3	193.8	209.2	222.9	238.9
70°	160.0	148.0	137.2	134.3	136.6	147.5	160.0	175.5	191.5	207.5	224.0
72.5°	142.9	128.0	116.6	113.2	116.0	128.0	142.3	158.3	175.5	192.6	210.3
75°	122.9	109.2	96.6	92.6	96.0	106.9	124.6	141.7	160.0	178.3	194.9
77.5°	106.9	90.9	77.7	71.4	77.2	90.9	108.0	126.3	145.2	164.0	182.9
80°	90.3	73.7	59.4	52.6	58.9	73.7	90.9	110.9	132.0	150.9	168.0
82.5°	75.4	57.7	42.9	35.4	42.3	58.9	77.7	97.7	118.3	137.2	157.2
85°	61.7	43.4	28.0	20.0	29.7	44.6	64.6	85.2	106.3	125.7	145.2
87.5°	50.3	32.6	17.1	8.6	18.3	34.9	53.7	74.3	95.4	114.9	133.2
90°	41.2	23.4	9.1	1.1	10.9	26.3	44.6	64.6	84.6	104.6	122.9
92.5°	33.7	17.7	5.1	0.6	6.9	21.1	38.3	57.2	76.6	96.0	113.7
95°	28.0	13.7	3.4	0.6	5.1	16.6	32.6	50.9	69.2	88.0	105.7
97.5°	24.0	11.4	2.9	0.6	4.0	14.3	28.0	45.2	62.9	80.6	97.7
100°	20.6	9.1	2.3	0.6	3.4	12.0	24.6	40.0	56.6	73.7	90.3
102.5°	17.7	7.4	1.7	0.6	2.9	10.3	21.7	36.0	50.9	67.4	83.4
105°	15.4	6.3	1.7	0.6	2.3	9.1	19.4	32.0	46.9	61.7	77.2
107.5°	13.1	5.1	1.1	0.6	1.7	7.4	17.1	29.1	42.3	56.6	70.9
110°	11.4	4.6	1.1	0.6	1.7	6.9	14.9	26.3	38.3	51.4	65.2

TEST NUMBER: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.7	3.4	1.1	0.6	1.1	5.7	13.1	23.4	34.9	46.9	60.0
115°	8.6	2.9	0.6	0.6	1.1	5.1	12.0	21.1	31.4	42.9	54.9
117.5°	6.9	2.3	0.6	0.6	0.6	4.0	10.3	18.9	28.6	39.4	50.3
120°	5.7	2.3	0.6	0.6	0.6	3.4	9.1	16.6	25.7	35.4	45.7
122.5°	5.1	1.7	0.6	0.6	0.6	2.9	8.0	14.9	22.9	32.0	41.7
125°	4.6	1.7	0.6	0.6	0.6	2.3	6.9	13.1	20.6	28.6	37.7
127.5°	3.4	1.7	0.6	0.6	0.6	1.7	6.3	11.4	18.3	25.7	33.7
130°	2.9	1.1	0.6	0.6	0.6	1.7	5.1	10.3	16.0	22.9	30.3
132.5°	2.3	1.1	0.6	0.6	0.6	1.1	4.0	8.0	13.7	20.0	26.9
135°	2.3	1.1	0.6	0.6	0.6	1.1	2.9	6.9	11.4	17.1	22.9
137.5°	2.3	0.6	0.6	0.6	0.6	1.1	2.3	5.1	9.1	13.7	18.9
140°	1.7	0.6	0.6	0.6	0.6	0.6	1.7	4.0	7.4	11.4	16.0
142.5°	1.7	0.6	0.6	0.6	0.6	0.6	1.7	2.9	5.7	9.1	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: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	543.5	539.5	540.7	540.1	541.3	543.0	543.0	542.4	542.4	541.3	540.1
5°	542.4	538.4	540.1	539.5	540.7	542.4	542.4	541.8	541.8	540.1	539.5
7.5°	539.0	536.1	537.2	537.2	538.4	540.1	540.1	539.5	539.5	537.8	537.2
10°	535.5	532.1	533.8	533.8	535.0	537.2	537.2	536.7	536.7	535.0	534.4
12.5°	529.8	526.4	529.2	529.8	531.0	533.2	532.7	532.7	532.7	531.0	530.4
15°	523.0	520.7	523.5	524.1	525.8	528.7	528.7	528.7	528.7	527.0	526.4
17.5°	515.5	513.8	516.7	517.8	520.1	523.0	523.0	523.5	524.1	523.0	522.4
20°	507.0	505.8	508.7	511.0	514.4	517.2	518.4	519.0	520.1	519.0	518.4
22.5°	497.2	497.2	501.2	503.5	507.5	510.4	512.1	513.8	515.0	513.8	513.2
25°	486.4	488.1	492.1	496.1	500.7	503.5	505.2	507.5	508.7	508.1	507.5
27.5°	476.1	478.4	483.5	487.5	491.5	496.1	497.8	500.7	501.8	501.8	501.2
30°	464.1	467.5	473.2	477.8	483.0	487.5	489.8	492.7	494.4	493.2	493.8
32.5°	452.7	458.4	462.9	468.1	473.8	478.4	481.2	484.7	486.4	485.8	486.4
35°	440.1	445.8	452.1	457.2	464.1	468.7	472.7	475.5	477.8	477.2	477.2
37.5°	426.4	433.8	440.1	446.9	453.2	458.4	462.4	465.8	468.1	468.1	468.1
40°	413.2	421.2	427.5	435.5	443.5	448.1	452.7	456.1	458.4	458.9	459.5
42.5°	398.9	407.5	414.9	423.5	431.5	437.2	442.4	446.4	448.7	449.8	449.2
45°	385.8	393.8	402.4	412.1	419.5	425.2	431.5	436.1	438.4	438.9	439.5
47.5°	370.9	380.1	389.8	399.5	406.9	414.4	420.1	424.7	426.9	428.7	428.7
50°	356.6	366.4	377.2	387.5	395.5	402.9	408.7	413.8	416.7	417.8	418.4
52.5°	343.5	352.6	364.1	374.4	382.4	389.8	397.2	402.9	405.8	406.9	406.9
55°	327.5	338.9	351.5	361.2	369.8	378.4	385.8	391.5	394.4	396.1	397.2
57.5°	312.6	324.6	337.8	348.1	358.4	366.4	373.2	380.6	382.9	385.2	385.8
60°	298.3	310.3	322.9	334.4	344.6	353.2	361.2	367.5	371.5	372.6	373.8
62.5°	283.5	296.1	309.2	320.6	331.5	341.8	349.2	354.9	359.5	361.2	362.4
65°	269.2	282.3	295.5	307.5	318.9	329.2	336.6	342.4	346.9	349.8	350.4
67.5°	253.8	268.1	281.8	294.3	305.8	316.6	324.1	329.8	334.4	337.8	338.4
70°	239.5	254.3	268.1	281.8	293.2	304.1	312.1	317.8	322.9	325.2	326.4
72.5°	225.8	241.2	255.5	269.2	280.6	291.5	300.1	305.8	310.9	313.8	314.3
75°	212.6	228.0	243.5	256.6	268.6	279.5	288.1	294.3	298.9	301.8	302.9
77.5°	199.5	215.5	230.9	244.0	256.6	267.5	274.9	282.3	286.9	290.3	290.3
80°	186.3	202.9	218.9	232.0	244.6	254.3	262.9	270.3	274.9	278.3	278.3
82.5°	174.9	190.9	206.3	219.5	232.0	242.9	251.5	258.3	263.5	265.8	266.3
85°	161.7	179.5	193.8	208.0	220.0	230.3	238.9	246.3	250.9	253.2	254.3
87.5°	150.9	168.0	183.5	196.0	208.0	218.3	228.0	234.3	238.9	241.8	242.9
90°	140.6	157.2	172.6	185.2	197.8	207.5	216.6	222.9	228.0	230.3	231.5
92.5°	131.5	148.0	162.9	175.5	187.5	198.3	206.9	213.2	217.8	220.0	221.8
95°	122.9	138.9	153.2	166.9	178.3	188.0	197.2	203.5	208.6	210.3	212.0
97.5°	114.3	129.7	144.0	157.2	169.2	178.3	186.9	193.2	197.2	200.0	201.8
100°	106.9	121.7	135.5	148.0	159.5	168.0	177.2	182.9	186.9	189.2	191.5
102.5°	98.9	113.7	126.9	138.9	150.9	158.9	167.5	173.2	176.6	180.6	180.6
105°	92.0	105.7	118.9	130.3	140.6	150.3	157.7	163.5	167.5	170.3	170.3
107.5°	84.6	98.3	110.9	122.9	132.6	141.7	148.6	153.7	158.3	160.0	161.7
110°	78.9	90.9	103.4	114.9	124.0	132.6	139.5	145.2	149.2	150.9	152.0

TEST NUMBER: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	72.0	84.6	96.0	106.9	116.0	124.0	130.9	135.5	139.5	141.7	142.3
115°	66.3	78.3	88.6	98.9	108.6	115.5	121.7	126.3	130.3	132.0	133.2
117.5°	61.2	72.0	82.3	90.9	100.0	107.4	113.7	117.7	121.2	123.5	124.6
120°	56.0	66.3	75.4	84.0	92.6	99.4	105.2	109.2	113.2	114.9	114.9
122.5°	50.9	60.6	69.2	77.2	85.2	91.4	97.7	101.2	104.6	106.3	106.3
125°	46.3	55.4	63.4	70.9	78.3	84.0	89.2	93.2	96.6	97.7	97.7
127.5°	41.7	50.3	57.7	64.6	70.9	76.6	81.7	85.7	88.6	89.7	89.7
130°	37.7	45.2	52.0	58.9	65.2	69.7	74.9	78.3	80.0	81.7	82.3
132.5°	33.7	40.6	46.9	52.6	58.9	63.4	67.4	70.9	72.6	74.3	74.9
135°	29.7	36.0	41.7	47.4	52.6	57.2	60.6	63.4	65.7	66.9	67.4
137.5°	25.1	32.0	37.2	41.7	47.4	50.9	54.9	56.6	58.9	60.0	60.0
140°	21.1	26.3	32.0	36.6	41.2	44.6	48.0	50.9	52.6	53.2	53.2
142.5°	17.1	21.7	26.3	32.0	36.0	38.9	42.3	44.6	45.7	46.3	46.9
145°	13.7	17.1	21.1	26.3	30.9	34.3	36.0	38.3	39.4	40.0	40.6
147.5°	10.3	13.7	17.1	20.6	25.1	28.6	30.3	32.6	33.7	34.3	34.3
150°	8.0	10.3	12.6	16.0	19.4	23.4	25.7	27.4	28.0	28.6	28.6
152.5°	5.7	8.0	9.7	12.0	14.3	17.7	21.1	22.3	22.9	23.4	23.4
155°	4.0	5.7	6.9	8.6	10.3	13.1	16.0	17.7	18.3	18.9	18.9
157.5°	2.9	4.0	4.6	6.3	7.4	8.6	10.9	13.7	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: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	540.7	541.8	541.3	541.3	541.3	542.4	541.3	536.1	537.2	538.4	539.5
5°	540.1	540.7	540.7	540.1	540.1	541.3	540.1	535.0	536.1	537.2	537.8
7.5°	537.8	538.4	538.4	538.4	537.8	539.0	537.2	532.7	532.7	533.8	534.4
10°	535.0	536.1	535.5	535.0	535.0	535.0	533.8	528.7	528.7	529.2	529.8
12.5°	531.5	531.5	531.5	531.0	530.4	530.4	529.2	524.1	523.5	524.7	524.1
15°	527.0	528.1	527.0	526.4	525.2	525.2	523.5	518.4	517.2	517.8	517.2
17.5°	523.0	523.5	522.4	521.2	520.1	519.5	517.8	512.1	510.4	511.0	509.8
20°	519.0	519.0	517.8	516.7	515.0	513.2	511.0	505.2	502.4	502.4	500.1
22.5°	513.8	513.8	512.7	511.0	509.2	507.0	504.7	499.0	494.4	493.2	491.5
25°	508.1	507.5	507.0	505.2	501.8	499.5	497.2	491.0	485.8	483.5	480.7
27.5°	501.2	501.2	499.5	497.8	494.4	491.5	488.7	483.0	476.1	473.2	469.2
30°	493.8	493.8	492.1	489.8	486.4	483.0	479.5	472.7	465.8	461.8	457.2
32.5°	486.4	485.8	484.1	481.8	478.4	473.2	470.4	463.5	455.5	450.9	444.7
35°	477.2	476.7	475.0	472.1	467.5	463.5	458.9	452.7	443.5	437.8	430.9
37.5°	468.1	467.5	466.4	462.4	457.8	453.2	447.5	441.2	432.7	425.2	418.4
40°	458.9	458.4	456.1	453.2	447.5	441.8	436.1	429.8	420.7	412.1	404.7
42.5°	449.2	448.7	445.8	442.4	436.1	430.4	423.5	416.7	407.5	397.2	389.8
45°	439.5	438.4	435.5	431.5	424.7	418.4	411.5	403.5	394.4	384.6	374.9
47.5°	429.2	427.5	424.7	418.9	413.2	406.4	398.4	389.8	380.6	369.8	359.5
50°	417.8	416.7	413.2	408.1	401.2	394.4	385.2	376.6	365.8	355.5	342.9
52.5°	406.9	404.7	401.8	396.1	389.2	381.8	372.1	361.8	350.9	341.2	328.1
55°	395.5	394.4	390.4	385.8	377.2	368.6	359.5	348.6	336.6	325.2	312.6
57.5°	384.6	382.4	378.9	372.6	365.2	356.6	346.9	335.5	322.3	310.3	296.6
60°	373.8	370.4	366.4	360.6	352.6	343.5	333.2	321.2	308.1	294.9	280.6
62.5°	361.8	358.9	354.4	348.6	340.6	330.9	320.1	307.5	294.9	281.2	265.8
65°	349.8	346.9	342.4	336.6	328.6	317.8	306.3	293.8	279.5	266.3	249.8
67.5°	337.8	334.9	329.8	323.5	315.5	305.2	293.2	280.1	265.8	251.5	234.3
70°	325.8	322.3	317.8	310.9	302.9	292.1	280.1	266.3	252.0	236.6	219.5
72.5°	313.8	310.9	305.2	298.9	290.3	279.5	267.5	253.8	238.9	222.9	205.8
75°	301.8	298.3	294.3	286.9	277.8	267.5	254.9	241.2	225.2	209.8	192.0
77.5°	289.8	286.9	281.8	274.3	265.8	254.9	242.3	228.6	212.6	196.6	177.7
80°	277.8	274.3	270.3	263.5	253.8	242.9	229.8	216.0	200.0	183.5	164.6
82.5°	265.8	262.3	257.8	250.9	241.8	230.9	218.3	203.5	187.5	170.3	152.6
85°	253.8	250.9	245.8	238.9	229.2	218.3	205.8	192.6	175.5	158.3	140.6
87.5°	241.8	238.9	233.8	226.9	217.8	206.9	194.3	180.6	164.0	148.0	128.6
90°	230.3	228.0	222.9	216.0	206.9	196.0	184.6	169.7	153.7	137.7	119.5
92.5°	220.0	217.8	213.2	206.3	198.3	186.3	174.9	160.6	144.6	128.0	110.3
95°	210.9	208.0	203.5	197.2	187.5	177.2	165.7	151.5	136.0	119.5	102.3
97.5°	200.6	197.8	193.2	186.3	178.3	167.5	156.0	142.3	126.9	111.5	94.3
100°	190.3	187.5	182.3	176.6	168.6	157.7	146.9	133.2	118.9	104.0	87.4
102.5°	180.0	177.2	172.6	166.9	158.9	149.2	138.3	125.2	110.9	96.0	80.6
105°	170.3	167.5	162.9	157.2	149.7	140.0	128.6	117.2	103.4	89.2	74.3
107.5°	160.6	157.7	153.7	148.0	140.6	131.5	120.6	108.6	96.0	82.3	68.0
110°	150.9	148.6	144.0	138.9	131.5	122.3	112.6	101.2	88.6	76.0	62.3

TEST NUMBER: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	141.7	139.5	134.9	129.2	122.9	114.3	104.6	93.7	81.7	69.7	56.6
115°	132.6	129.7	125.7	120.6	114.3	106.3	97.2	87.4	75.4	64.0	52.0
117.5°	123.5	121.2	117.2	112.0	106.3	98.3	89.7	80.6	69.2	58.3	47.4
120°	114.3	112.6	108.6	104.0	98.3	90.9	82.9	73.7	63.4	53.2	42.9
122.5°	105.7	104.0	100.0	96.0	90.3	83.4	76.0	67.4	58.3	48.6	39.4
125°	97.7	95.4	92.0	88.0	82.9	76.6	69.2	61.2	52.6	44.0	35.4
127.5°	89.2	87.4	85.2	80.6	75.4	69.7	62.9	56.0	48.0	40.0	32.0
130°	82.3	80.0	77.2	73.7	69.2	63.4	57.2	50.3	43.4	36.0	28.0
132.5°	74.3	72.0	69.7	66.3	62.3	57.2	51.4	45.2	38.9	32.0	25.1
135°	66.9	65.2	62.9	59.4	55.4	51.4	45.7	40.0	34.3	28.0	22.3
137.5°	60.0	58.3	56.0	53.7	49.7	45.7	40.6	35.4	30.3	24.6	19.4
140°	53.2	52.0	49.7	47.4	44.0	40.0	35.4	30.9	26.3	21.1	16.6
142.5°	46.3	45.2	43.4	41.2	38.3	34.9	30.9	26.9	22.3	18.3	14.3
145°	40.0	39.4	37.7	35.4	33.1	29.7	26.3	22.9	18.9	15.4	11.4
147.5°	33.7	33.1	32.0	30.3	28.0	25.1	22.3	18.9	16.0	12.6	9.1
150°	28.0	27.4	26.9	24.6	23.4	20.6	18.3	15.4	13.1	9.7	7.4
152.5°	22.9	22.9	21.7	20.0	18.9	16.6	14.9	12.6	10.3	8.0	5.7
155°	18.3	17.7	17.1	16.0	14.9	13.1	11.4	9.7	8.0	5.7	4.0
157.5°	14.3	13.7	13.1	12.0	10.9	10.3	8.6	6.9	5.1	4.0	2.9
160°	10.3	9.7	9.1	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	5.1	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: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	539.0	539.0	541.3	540.7	539.0	542.4	546.4
5°	537.2	537.2	539.0	539.0	537.2	540.7	544.1
7.5°	534.4	533.8	535.5	535.5	533.2	536.1	540.1
10°	529.2	528.7	530.4	530.4	528.1	531.0	534.4
12.5°	523.5	522.4	524.1	523.5	521.2	524.1	527.5
15°	516.1	515.5	516.7	515.5	513.2	516.1	519.5
17.5°	508.7	507.0	507.5	507.5	503.5	506.4	509.2
20°	499.0	496.7	497.2	496.7	493.8	495.5	499.0
22.5°	489.2	485.8	485.8	485.2	481.8	484.1	487.0
25°	477.2	473.2	473.2	472.7	468.7	470.4	473.2
27.5°	465.2	461.2	459.5	458.9	454.9	454.9	458.9
30°	452.7	446.9	445.8	444.1	440.1	440.1	443.5
32.5°	440.7	432.7	430.4	428.1	424.1	423.5	427.5
35°	424.7	418.4	414.4	412.1	407.5	406.4	409.8
37.5°	411.5	403.5	397.8	394.9	390.4	388.6	393.2
40°	397.2	388.6	381.2	379.5	372.6	370.4	374.4
42.5°	381.2	372.1	364.6	361.2	356.1	353.8	354.4
45°	365.2	355.5	347.5	342.9	337.8	333.8	336.1
47.5°	348.6	340.1	330.4	323.5	317.2	314.3	315.5
50°	332.1	321.8	312.6	305.2	297.8	294.3	296.6
52.5°	315.5	304.6	294.3	286.3	277.8	274.3	274.9
55°	299.5	288.1	276.1	267.5	259.5	254.3	253.2
57.5°	283.5	270.9	258.3	248.6	238.3	233.8	232.0
60°	266.3	253.2	240.0	228.6	217.8	212.6	210.3
62.5°	250.3	236.0	221.2	209.2	198.3	191.5	189.8
65°	234.9	218.3	203.5	189.8	177.7	170.3	168.0
67.5°	218.3	201.2	185.2	170.3	158.9	149.2	148.0
70°	202.9	184.6	166.9	151.5	138.9	129.2	124.6
72.5°	187.5	168.6	150.3	133.7	117.7	108.6	105.2
75°	172.6	153.2	133.7	116.6	98.9	88.0	84.6
77.5°	158.9	138.9	118.3	99.4	82.9	69.2	64.6
80°	145.7	125.2	103.4	84.0	66.3	51.4	46.3
82.5°	132.0	112.6	90.3	69.7	51.4	36.0	29.7
85°	120.0	100.6	78.3	57.7	39.4	22.9	16.0
87.5°	110.3	89.2	69.2	48.6	29.7	13.1	4.6
90°	100.6	80.0	60.0	40.0	22.3	7.4	0.6
92.5°	92.0	72.6	52.6	34.3	17.1	5.1	0.6
95°	84.0	65.2	46.3	28.6	13.7	3.4	0.6
97.5°	76.6	58.9	41.2	24.6	11.4	2.9	0.6
100°	70.3	53.2	36.6	21.7	9.7	2.3	0.6
102.5°	64.0	48.0	32.6	18.9	8.6	1.7	0.6
105°	58.9	43.4	29.1	17.1	7.4	1.7	0.6
107.5°	53.7	39.4	26.3	14.9	6.3	1.1	0.6
110°	48.6	36.0	23.4	13.1	5.7	1.1	0.6



TEST NUMBER: P1212990

CATALOG NUMBER: 2SNLED-LD5-30HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	44.6	32.6	21.1	12.0	4.6	1.1	0.6
115°	40.6	29.1	18.9	10.3	4.0	0.6	0.6
117.5°	36.6	26.3	16.6	9.1	3.4	0.6	0.6
120°	33.1	23.4	14.9	8.0	2.9	0.6	0.6
122.5°	29.7	21.1	13.1	6.9	2.3	0.6	0.6
125°	26.9	18.9	11.4	5.7	1.7	0.6	0.6
127.5°	24.0	16.6	10.3	5.1	1.7	0.6	0.6
130°	21.1	14.9	8.6	4.0	1.1	0.6	0.6
132.5°	18.9	12.6	7.4	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	9.1	5.1	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	5.1	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)