

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: P1213344

Luminaire Tested: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

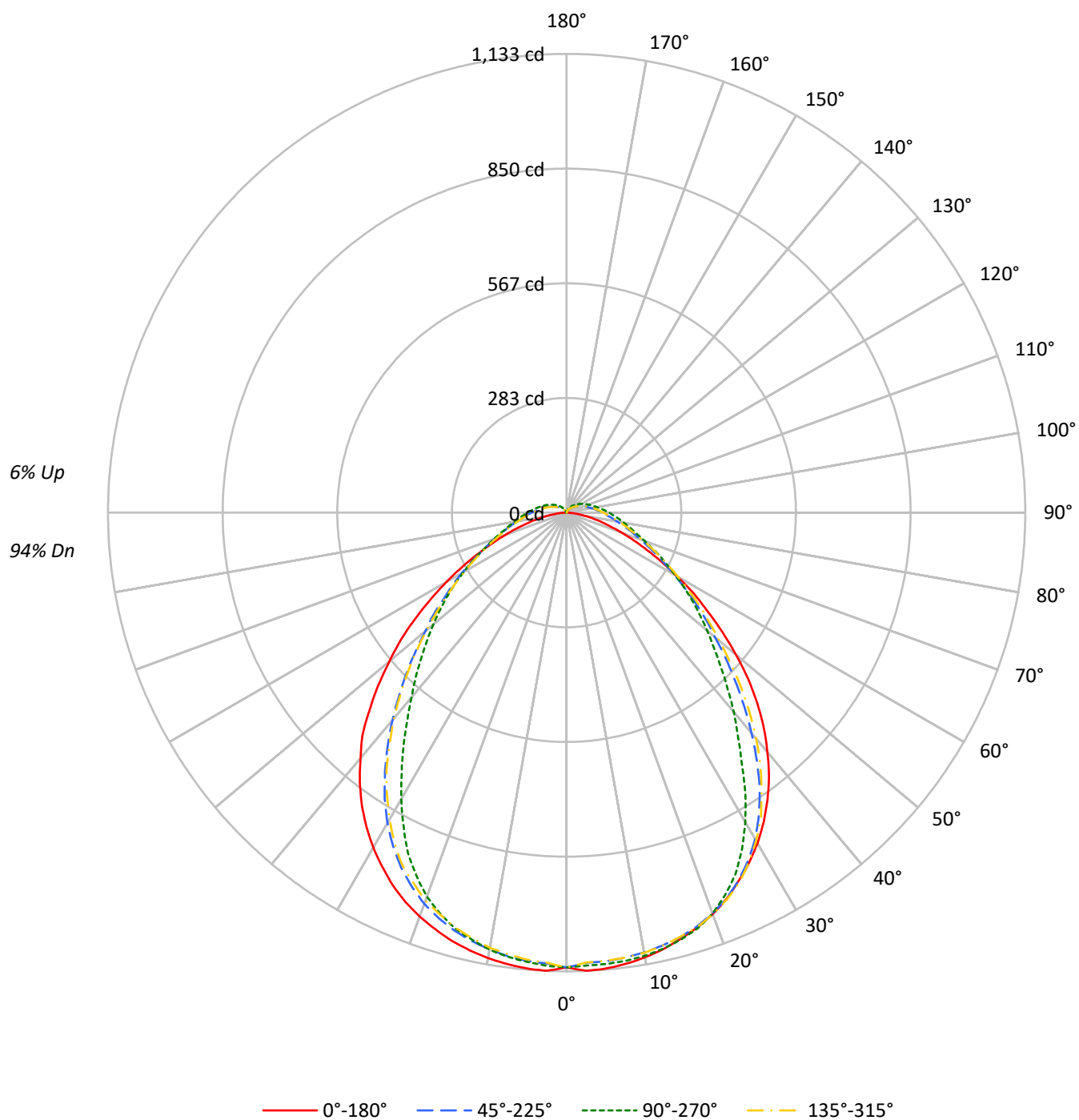
Lumens per Lamp: N/A
Luminaire Lumens: 2843.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P1213344

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18156	18156	18156	18156
5°	18236	17579	18236	17500
10°	18106	17110	18135	16873
15°	17938	16600	18020	16167
20°	17748	15943	17853	15270
25°	17409	14967	17603	14085
30°	16986	13534	17207	12530
35°	16353	11779	16669	10968
40°	15472	10301	15881	9558
45°	14329	8954	14796	8440
50°	12798	7868	13362	7472
55°	10997	6949	11796	6596
60°	9173	6100	10001	5749
65°	7439	5394	8188	5000
70°	5832	4787	6529	4427
75°	4476	4419	5038	4065
80°	3099	4266	3649	3897
85°	1741	4287	2336	3943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 14796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.7
10°-20°	305.4	10.7
20°-30°	452.6	15.9
30°-40°	502.8	17.7
40°-50°	455.8	16.0
50°-60°	353.2	12.4
60°-70°	239.8	8.4
70°-80°	152.6	5.4
80°-90°	97.6	3.4
90°-100°	65.8	2.3
100°-110°	45.1	1.6
110°-120°	30.1	1.1
120°-130°	18.7	0.7
130°-140°	10.3	0.4
140°-150°	4.9	0.2
150°-160°	1.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	864.5	30.4
0°-40°	1367.3	48.1
0°-60°	2176.3	76.6
0°-90°	2666.3	93.8
90°-120°	140.9	5.0
90°-150°	174.8	6.1
90°-180°	177.0	6.2
0°-180°	2843.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1123	1123	1123	1123	1123	
5°	1130	1119	1130	1114	1130	107
15°	1090	1092	1095	1063	1090	308
25°	1005	986	1016	928	1005	463
35°	865	754	882	702	865	540
45°	666	539	688	508	666	512
55°	425	379	456	360	425	383
65°	221	255	243	236	221	221
75°	88	170	100	156	88	95
85°	16	122	22	112	16	19
90°	0	106	1	96	0	1
95°	1	90	0	84	1	0
105°	1	66	0	62	1	1
115°	1	50	0	46	1	1
125°	1	37	1	33	1	1
135°	1	26	1	21	1	0
145°	1	17	1	12	1	0
155°	1	9	1	4	1	0
165°	0	0	0	0	0	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°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1132.7	1131.4	1130.2	1128.3	1130.2	1135.1	1132.0	1125.2	1124.0	1112.9	1117.8
5°	1130.2	1128.3	1127.1	1125.2	1127.7	1133.9	1130.8	1124.6	1122.8	1112.3	1117.8
7.5°	1124.0	1122.8	1120.9	1120.9	1123.4	1129.6	1127.1	1120.3	1119.1	1108.6	1114.7
10°	1115.4	1114.7	1113.5	1113.5	1116.0	1123.4	1120.3	1114.1	1112.9	1103.0	1109.8
12.5°	1104.2	1104.9	1103.0	1103.0	1106.7	1114.1	1111.6	1104.9	1103.6	1095.0	1101.8
15°	1090.0	1090.6	1089.4	1090.0	1093.7	1102.4	1099.3	1093.1	1091.9	1085.1	1090.6
17.5°	1074.0	1074.6	1074.6	1074.0	1078.3	1086.9	1084.5	1078.9	1077.0	1071.5	1078.3
20°	1055.4	1055.4	1055.4	1055.4	1060.4	1069.0	1065.9	1061.6	1057.9	1053.6	1059.1
22.5°	1032.6	1031.9	1032.6	1034.4	1039.4	1046.1	1044.3	1039.4	1033.8	1031.3	1035.6
25°	1004.7	1006.6	1007.2	1009.1	1015.3	1020.8	1019.0	1014.0	1005.4	1003.5	1004.7
27.5°	975.7	976.9	978.8	978.2	986.8	992.4	988.7	984.4	972.0	970.1	968.9
30°	943.0	944.8	946.0	945.4	952.2	958.4	954.7	949.1	932.4	931.2	921.3
32.5°	905.9	907.7	909.0	909.0	918.9	921.3	914.5	906.5	888.6	884.3	875.6
35°	865.1	866.9	867.6	867.6	877.5	876.8	868.2	857.1	837.3	831.7	816.9
37.5°	821.2	822.5	823.1	826.8	831.1	827.4	816.3	802.1	787.2	771.8	755.7
40°	771.8	773.6	774.9	777.4	781.7	777.4	761.3	744.0	727.9	710.6	694.5
42.5°	721.1	726.7	725.4	724.8	727.3	715.6	703.2	683.4	667.4	649.4	633.4
45°	666.1	665.5	668.6	669.8	669.2	659.3	642.0	624.1	608.0	589.5	575.9
47.5°	608.0	607.4	609.9	611.1	607.4	596.9	583.3	562.9	549.3	533.3	522.8
50°	546.9	546.9	550.6	546.9	545.0	534.5	523.4	503.0	492.5	478.3	472.1
52.5°	485.7	491.3	487.5	486.3	484.5	473.9	465.3	448.6	440.0	433.8	426.4
55°	425.1	431.3	428.8	427.0	426.4	417.7	409.7	397.3	391.8	387.4	383.1
57.5°	373.8	373.2	372.0	370.1	370.8	364.0	355.9	349.1	346.7	344.8	346.0
60°	314.5	319.5	317.6	318.2	318.8	317.6	310.8	306.5	307.1	307.7	309.6
62.5°	265.7	270.0	273.1	270.7	271.9	273.7	270.0	268.8	271.3	273.7	276.2
65°	220.6	224.9	228.0	227.4	231.1	234.8	234.2	235.4	241.0	244.1	247.2
67.5°	179.8	184.1	188.5	189.1	194.6	200.2	202.7	207.0	213.2	217.5	221.2
70°	144.6	148.3	153.2	156.3	163.8	171.2	175.5	184.1	187.8	194.0	196.5
72.5°	113.1	116.2	123.0	130.4	136.6	145.8	154.5	161.9	167.5	174.3	177.3
75°	88.4	89.6	97.0	105.7	114.3	124.8	134.1	142.1	149.5	156.3	161.3
77.5°	64.9	66.7	73.5	85.3	95.2	106.3	116.8	125.4	133.5	140.3	147.1
80°	45.1	48.8	56.2	68.0	79.1	91.5	101.3	111.2	119.9	126.7	133.5
82.5°	29.0	32.1	42.6	54.4	66.1	78.5	89.0	98.9	108.1	115.6	121.7
85°	16.1	20.4	30.9	43.3	55.0	67.4	78.5	88.4	97.6	104.4	110.6
87.5°	6.2	12.4	22.2	34.0	45.7	57.5	69.2	78.5	87.7	95.2	100.7
90°	0.0	7.4	16.7	28.4	40.2	51.9	63.0	72.9	81.6	88.4	94.5
92.5°	0.6	4.9	13.0	22.9	34.0	45.1	55.6	65.5	74.2	80.9	86.5
95°	0.6	3.7	10.5	19.8	29.7	40.2	50.1	59.3	67.4	74.2	79.7
97.5°	0.6	2.5	8.7	17.3	26.0	36.5	45.7	54.4	61.8	68.6	72.9
100°	0.6	2.5	7.4	14.8	23.5	32.8	41.4	50.1	56.8	62.4	67.4
102.5°	0.6	1.9	6.2	13.0	21.0	29.0	37.7	45.7	51.9	57.5	62.4
105°	0.6	1.9	5.6	11.1	18.5	26.6	34.0	41.4	48.2	53.1	57.5
107.5°	0.6	1.2	4.9	9.3	16.1	24.1	31.5	37.7	43.9	48.8	53.1
110°	0.6	1.2	4.3	8.7	14.2	21.6	28.4	34.6	40.2	45.1	48.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.2	3.7	8.0	13.0	19.2	26.0	31.5	37.1	41.4	45.1
115°	0.6	1.2	3.7	7.4	11.7	16.7	22.9	29.0	33.4	38.3	41.4
117.5°	0.6	1.2	3.1	6.2	11.1	15.4	21.0	26.0	30.9	35.2	38.3
120°	0.6	1.2	3.1	5.6	9.9	14.2	18.5	23.5	28.4	31.5	34.6
122.5°	0.6	1.2	2.5	5.6	8.7	13.0	16.7	21.0	25.3	29.0	32.1
125°	0.6	1.2	2.5	4.9	8.0	11.7	15.4	18.5	22.9	26.0	29.0
127.5°	0.6	1.2	2.5	4.3	7.4	10.5	14.2	17.3	20.4	23.5	26.0
130°	0.6	1.2	1.9	3.7	6.8	9.3	12.4	16.1	18.5	21.0	23.5
132.5°	0.6	1.2	1.9	3.7	5.6	8.0	11.1	14.2	16.7	19.2	21.0
135°	0.6	1.2	1.9	3.1	4.9	7.4	9.3	12.4	14.8	17.3	19.2
137.5°	0.6	1.2	1.9	3.1	4.3	6.2	8.0	10.5	13.0	14.8	17.3
140°	0.6	1.2	1.9	2.5	3.7	5.6	7.4	8.7	11.1	13.0	14.8
142.5°	0.6	1.2	1.9	2.5	3.7	4.9	6.2	7.4	9.3	11.1	13.0
145°	0.6	1.2	1.9	2.5	3.1	4.3	5.6	6.8	7.4	9.3	10.5
147.5°	0.6	1.2	1.9	2.5	2.5	3.7	4.9	5.6	6.8	7.4	8.7
150°	0.6	1.2	1.9	1.9	2.5	3.1	4.3	4.9	5.6	6.8	7.4
152.5°	0.6	1.2	1.9	1.9	2.5	3.1	3.7	4.3	4.9	5.6	6.2
155°	0.6	1.2	1.9	1.9	1.9	2.5	3.1	3.7	4.3	4.9	5.6
157.5°	1.2	1.2	1.2	1.9	1.9	2.5	2.5	3.1	3.7	3.7	4.3
160°	1.2	1.2	1.2	1.9	1.9	1.9	2.5	2.5	3.1	3.1	3.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1116.6	1118.4	1124.0	1124.0	1122.8	1121.5	1121.5	1119.7	1120.9	1123.4	1122.2
5°	1116.6	1118.4	1124.0	1124.0	1122.8	1121.5	1120.9	1119.1	1120.9	1123.4	1122.2
7.5°	1112.9	1115.4	1120.9	1120.9	1119.7	1119.1	1117.8	1116.6	1118.4	1120.9	1119.7
10°	1107.9	1110.4	1116.0	1116.0	1114.7	1114.7	1112.9	1111.6	1114.1	1116.0	1115.4
12.5°	1100.5	1103.6	1108.6	1107.9	1106.7	1107.3	1105.5	1103.0	1105.5	1107.3	1107.9
15°	1090.0	1093.7	1098.7	1097.4	1095.6	1096.8	1093.7	1091.9	1093.7	1097.4	1096.8
17.5°	1076.4	1078.9	1082.6	1082.6	1080.8	1079.5	1078.3	1076.4	1077.7	1080.1	1080.8
20°	1057.3	1060.4	1062.2	1060.4	1059.7	1057.9	1055.4	1053.6	1056.0	1059.7	1060.4
22.5°	1031.9	1032.6	1036.9	1032.6	1029.5	1028.8	1026.4	1022.7	1026.4	1029.5	1030.1
25°	1000.4	1003.5	1001.7	994.2	994.2	989.3	988.1	986.2	986.8	992.4	994.9
27.5°	960.3	961.5	956.5	950.4	944.8	941.7	937.4	938.0	938.0	945.4	947.9
30°	916.4	909.6	905.3	895.4	891.0	883.6	882.4	882.4	881.2	884.9	896.0
32.5°	863.9	854.6	847.8	838.5	831.1	823.7	820.0	821.8	821.2	830.5	834.2
35°	806.4	800.8	786.6	774.9	770.6	759.4	759.4	753.9	757.6	768.1	772.4
37.5°	745.8	737.2	725.4	712.5	709.4	700.7	697.6	694.5	702.6	704.4	708.8
40°	684.0	676.0	664.9	652.5	652.5	642.0	642.0	642.0	642.6	646.3	654.4
42.5°	625.3	616.7	606.8	598.2	596.9	588.9	588.9	588.3	589.5	592.6	600.0
45°	568.5	561.7	551.2	546.9	547.5	538.8	540.7	538.8	541.3	544.4	546.9
47.5°	516.0	511.6	507.3	501.1	499.3	498.7	495.6	493.1	497.4	497.4	501.1
50°	467.2	464.7	462.2	458.5	459.1	456.6	452.9	452.9	456.0	456.6	459.1
52.5°	424.5	421.4	418.3	419.0	419.6	418.3	416.5	414.6	416.5	417.7	420.8
55°	381.9	379.4	382.5	381.3	382.5	381.3	380.0	378.8	381.9	380.0	383.1
57.5°	343.6	346.0	347.3	344.8	346.7	345.4	346.0	344.2	346.7	347.9	347.3
60°	308.3	312.1	310.2	310.8	313.3	312.1	309.6	311.4	313.9	314.5	313.9
62.5°	276.2	280.5	282.4	281.2	281.8	280.5	282.4	279.9	283.0	284.2	282.4
65°	247.2	252.1	253.3	253.3	253.3	252.1	254.0	254.6	255.8	255.8	254.6
67.5°	222.5	226.8	228.0	229.3	228.0	226.8	226.8	227.4	229.9	231.1	229.9
70°	200.2	204.5	205.2	205.2	205.8	207.0	204.5	205.8	207.6	208.2	207.6
72.5°	181.1	185.4	186.6	186.0	186.6	187.2	187.2	186.0	187.8	189.1	189.1
75°	165.6	168.1	169.3	169.3	169.9	170.5	170.5	169.9	171.2	171.8	172.4
77.5°	151.4	153.2	155.1	155.1	155.7	155.1	156.3	156.3	157.0	157.6	158.2
80°	137.2	139.7	140.9	141.5	142.7	143.4	143.4	143.4	144.0	144.6	144.6
82.5°	126.1	127.9	129.8	131.6	131.6	132.2	132.2	132.2	132.9	132.9	133.5
85°	114.9	117.4	119.3	120.5	121.1	121.7	121.7	122.3	122.3	122.3	123.0
87.5°	105.0	108.1	109.4	110.6	111.2	112.5	112.5	112.5	113.1	113.1	113.1
90°	98.3	101.3	102.6	103.8	104.4	105.0	105.0	105.7	105.7	106.3	106.3
92.5°	90.2	93.3	95.8	95.8	96.4	97.6	97.0	97.0	97.6	98.3	98.3
95°	84.0	86.5	88.4	89.0	89.6	89.6	89.6	90.2	89.6	90.2	90.2
97.5°	76.6	79.1	80.9	82.2	82.8	82.8	82.8	83.4	82.8	83.4	83.4
100°	70.4	72.9	74.8	75.4	76.6	76.6	76.6	76.6	76.6	76.6	77.2
102.5°	65.5	68.0	69.2	69.8	70.4	71.1	71.1	71.1	71.1	71.7	71.7
105°	60.6	63.0	64.3	64.9	65.5	66.1	66.1	66.1	66.7	66.7	66.1
107.5°	56.2	58.1	59.3	60.6	61.2	61.2	61.8	61.8	61.8	61.8	61.8
110°	51.9	53.8	55.6	56.8	56.8	57.5	57.5	58.1	58.1	57.5	58.1

TEST NUMBER: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	47.6	50.1	51.3	52.5	53.1	53.8	53.8	53.8	53.8	53.8	53.8
115°	43.9	46.3	47.6	48.8	49.4	50.1	50.1	50.1	50.1	50.1	50.1
117.5°	40.8	43.3	44.5	45.1	45.7	46.3	47.0	47.0	47.0	47.0	46.3
120°	37.7	39.5	40.8	42.0	42.6	43.3	43.3	43.3	43.3	43.3	43.3
122.5°	34.6	36.5	37.7	38.9	39.5	40.2	40.2	40.2	40.2	40.2	40.2
125°	31.5	33.4	34.6	35.8	36.5	37.1	37.1	37.1	37.1	37.1	37.1
127.5°	28.4	30.3	32.1	32.8	33.4	34.0	34.0	34.0	34.6	34.0	34.0
130°	25.3	27.2	29.0	29.7	30.3	30.9	31.5	31.5	31.5	31.5	30.9
132.5°	22.9	24.7	26.0	26.6	27.8	27.8	28.4	28.4	28.4	28.4	27.8
135°	21.0	22.2	23.5	24.1	25.3	25.3	25.3	26.0	26.0	25.3	24.7
137.5°	18.5	19.8	21.0	21.6	22.2	22.9	22.9	23.5	22.9	22.9	22.9
140°	17.3	17.9	19.2	19.8	20.4	20.4	20.4	21.0	21.0	20.4	20.4
142.5°	14.8	16.1	17.3	17.9	18.5	18.5	18.5	18.5	18.5	18.5	18.5
145°	12.4	14.2	14.8	16.1	16.1	16.7	16.7	16.7	16.7	16.7	16.1
147.5°	10.5	11.7	13.6	14.2	14.2	14.8	14.8	14.8	14.8	14.8	14.2
150°	8.0	9.3	11.1	12.4	12.4	13.0	13.0	13.0	13.0	12.4	12.4
152.5°	6.8	8.0	8.7	9.9	10.5	10.5	10.5	11.1	10.5	10.5	10.5
155°	6.2	6.8	7.4	8.0	8.7	9.3	9.3	9.3	9.3	8.7	8.7
157.5°	4.9	5.6	6.2	6.8	7.4	8.0	8.0	8.0	8.0	8.0	7.4
160°	3.7	4.3	4.9	4.9	5.6	6.2	6.8	6.2	6.2	6.2	6.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1120.9	1120.3	1122.2	1119.1	1109.8	1112.3	1111.0	1116.6	1117.8	1119.1	1124.6
5°	1120.9	1120.3	1121.5	1119.1	1109.2	1111.0	1109.8	1115.4	1116.6	1117.2	1122.8
7.5°	1118.4	1117.8	1119.7	1116.6	1106.1	1108.6	1106.7	1112.3	1112.9	1113.5	1118.4
10°	1113.5	1112.9	1114.1	1111.6	1101.1	1103.6	1101.1	1106.7	1106.7	1107.9	1111.6
12.5°	1106.1	1104.9	1107.3	1104.2	1092.5	1095.6	1094.3	1098.1	1098.7	1099.3	1103.0
15°	1095.6	1094.3	1096.2	1094.3	1083.8	1084.5	1082.6	1088.2	1088.8	1087.5	1091.3
17.5°	1080.1	1078.9	1082.6	1081.4	1070.9	1073.3	1072.7	1074.0	1075.8	1072.7	1077.7
20°	1061.0	1062.2	1063.4	1064.1	1056.0	1056.0	1055.4	1057.9	1059.7	1057.3	1061.0
22.5°	1032.6	1035.6	1039.4	1040.6	1035.0	1034.4	1038.1	1036.9	1038.7	1037.5	1040.0
25°	996.7	1002.9	1006.6	1010.3	1007.2	1008.5	1014.0	1015.3	1015.3	1014.6	1017.1
27.5°	952.2	960.3	967.1	975.1	972.0	974.5	983.7	985.0	987.4	985.0	989.9
30°	899.1	906.5	919.5	931.2	932.4	936.2	949.1	950.4	957.2	954.7	956.5
32.5°	845.9	849.6	864.5	876.2	883.6	892.9	907.1	909.6	918.9	920.7	920.7
35°	779.2	789.7	803.3	820.0	829.3	839.1	858.3	862.0	875.6	879.9	884.9
37.5°	723.0	732.9	741.5	758.8	775.5	786.6	802.1	811.3	825.5	833.6	839.8
40°	663.0	671.1	680.3	697.6	711.8	728.5	744.0	755.1	773.0	782.3	790.3
42.5°	606.2	612.4	622.3	634.6	649.4	668.0	682.8	695.8	714.9	727.9	737.2
45°	555.5	559.2	567.9	577.1	590.1	609.3	623.5	640.2	655.6	669.2	680.3
47.5°	507.9	512.9	517.2	523.4	535.1	546.9	563.5	579.6	595.1	609.9	621.0
50°	464.1	464.1	470.9	475.2	483.2	493.7	506.7	517.8	537.0	547.5	561.7
52.5°	421.4	423.9	427.6	430.1	436.3	443.1	453.6	462.8	478.9	488.8	502.4
55°	383.7	386.2	388.1	389.3	393.0	401.0	404.7	412.2	423.3	431.3	443.1
57.5°	347.9	349.1	351.0	351.6	352.2	357.2	360.3	362.1	373.2	381.3	391.1
60°	315.1	315.1	317.0	316.4	315.8	318.2	317.6	319.5	326.3	331.2	335.5
62.5°	284.2	284.2	284.9	283.6	283.0	283.0	280.5	282.4	284.2	284.9	288.0
65°	255.8	258.9	256.4	257.1	253.3	252.1	250.9	247.2	246.6	244.1	245.3
67.5°	230.5	233.0	230.5	230.5	227.4	224.9	221.8	215.7	213.8	208.9	207.6
70°	210.1	208.2	209.5	207.6	203.9	200.8	196.5	191.6	185.4	179.2	174.9
72.5°	190.3	190.3	189.1	187.2	185.4	179.2	174.3	168.7	161.3	153.2	147.1
75°	171.2	171.8	171.8	169.9	166.8	161.3	155.7	147.7	139.7	130.4	122.3
77.5°	157.6	157.6	157.6	154.5	151.4	146.4	139.7	131.0	122.3	111.2	102.0
80°	144.6	144.0	144.0	140.3	137.2	131.6	124.8	116.2	106.9	95.2	84.7
82.5°	134.1	133.5	132.2	129.1	124.8	119.3	112.5	103.2	93.3	82.8	69.8
85°	123.0	122.3	121.1	118.0	113.7	108.8	101.3	92.1	82.2	70.4	58.1
87.5°	113.1	112.5	110.6	108.8	103.8	98.3	90.8	82.2	71.7	60.6	48.2
90°	106.3	105.0	103.8	101.3	97.0	90.8	83.4	74.2	63.6	52.5	40.2
92.5°	98.3	97.6	95.8	93.3	89.6	83.4	76.0	67.4	56.8	46.3	34.6
95°	90.2	89.6	88.4	85.9	82.2	76.6	69.8	61.2	51.3	40.8	30.3
97.5°	82.8	82.8	80.9	79.1	74.8	70.4	63.6	55.6	46.3	37.1	27.2
100°	76.6	76.6	74.8	72.3	69.2	64.9	58.1	50.7	42.0	33.4	23.5
102.5°	71.1	70.4	69.2	66.7	63.6	59.3	53.1	46.3	38.3	29.7	21.0
105°	66.1	65.5	64.3	61.8	59.3	54.4	49.4	42.6	34.6	26.6	18.5
107.5°	61.2	60.6	59.9	57.5	54.4	50.1	45.1	38.3	31.5	24.1	16.7
110°	56.8	56.2	55.0	52.5	49.4	45.7	40.8	35.2	28.4	21.6	14.8

TEST NUMBER: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	53.1	52.5	51.3	48.8	46.3	42.0	37.7	31.5	26.0	19.8	13.0
115°	49.4	48.8	47.6	45.1	42.0	38.3	34.0	29.0	22.9	17.3	11.7
117.5°	45.7	45.1	43.9	42.0	38.9	35.2	30.9	26.0	20.4	16.1	10.5
120°	42.6	41.4	40.2	38.3	35.2	32.1	27.8	23.5	18.5	14.2	9.3
122.5°	39.5	38.3	37.1	35.2	32.1	29.0	24.7	21.0	17.3	13.0	8.7
125°	35.8	35.2	34.0	32.1	29.0	26.0	22.9	19.2	15.4	11.7	7.4
127.5°	32.8	32.1	30.9	28.4	26.0	23.5	20.4	17.3	13.6	9.9	6.8
130°	30.3	29.0	27.8	26.0	24.1	21.6	18.5	15.4	12.4	8.7	6.2
132.5°	27.2	26.0	24.7	23.5	21.6	19.2	16.7	13.6	11.1	8.0	5.6
135°	24.7	23.5	22.2	21.0	19.2	17.3	14.8	12.4	9.9	7.4	4.9
137.5°	21.6	21.0	20.4	19.2	17.3	15.4	13.6	10.5	8.7	6.8	4.3
140°	19.8	19.2	18.5	16.7	15.4	13.6	11.7	9.3	7.4	5.6	3.7
142.5°	17.9	17.3	16.1	14.8	13.6	12.4	9.9	8.7	6.8	4.9	3.7
145°	15.4	14.8	14.2	13.0	11.7	9.9	8.7	7.4	6.2	4.3	3.1
147.5°	14.2	13.6	12.4	11.1	9.9	8.7	8.0	6.8	4.9	3.7	2.5
150°	11.7	11.1	10.5	9.3	8.7	8.0	6.8	5.6	4.3	3.1	2.5
152.5°	9.9	9.3	8.7	8.7	7.4	6.8	5.6	4.9	3.7	3.1	1.9
155°	8.7	8.7	8.0	7.4	6.2	5.6	4.9	3.7	3.1	2.5	1.9
157.5°	7.4	6.8	6.2	6.2	5.6	4.9	3.7	3.1	2.5	2.5	1.9
160°	6.2	5.6	5.6	4.9	4.3	3.7	3.1	3.1	2.5	1.9	1.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1125.2	1118.4	1124.6	1132.7	1132.7	1131.4	1130.2	1132.7	1138.8	1136.4	1128.9
5°	1123.4	1116.6	1122.2	1130.2	1130.2	1128.3	1127.1	1128.9	1135.7	1132.7	1125.9
7.5°	1119.7	1113.5	1117.2	1124.6	1124.6	1122.8	1121.5	1124.0	1129.6	1126.5	1119.1
10°	1112.9	1106.1	1110.4	1117.2	1116.6	1115.4	1113.5	1116.6	1121.5	1117.2	1108.6
12.5°	1104.2	1097.4	1101.1	1107.3	1106.7	1104.2	1103.0	1104.9	1109.2	1106.7	1097.4
15°	1092.5	1085.7	1088.8	1095.0	1093.1	1091.3	1088.8	1089.4	1095.0	1090.6	1080.8
17.5°	1078.3	1070.9	1073.3	1078.9	1077.0	1075.2	1072.1	1072.7	1078.9	1072.7	1062.2
20°	1061.0	1052.9	1054.8	1061.6	1058.5	1055.4	1052.3	1052.3	1058.5	1051.7	1040.0
22.5°	1042.4	1034.4	1035.6	1040.6	1038.1	1032.6	1029.5	1031.3	1034.4	1025.8	1013.4
25°	1019.6	1009.1	1010.9	1015.9	1014.0	1006.6	1003.5	1004.7	1003.5	996.7	983.7
27.5°	993.0	981.9	983.1	986.2	983.7	976.9	973.2	973.9	971.4	962.7	947.9
30°	959.6	954.1	953.5	955.3	951.6	944.8	940.5	939.2	938.6	926.3	908.4
32.5°	925.7	920.7	917.6	920.1	915.8	909.0	901.6	901.6	895.4	883.6	868.2
35°	891.0	883.0	879.9	881.8	876.8	868.2	862.0	858.9	849.6	834.8	818.1
37.5°	846.6	841.0	837.3	839.1	833.6	827.4	815.7	812.6	802.7	782.3	761.3
40°	798.4	794.0	790.3	792.2	786.0	776.7	766.2	761.3	750.2	727.3	710.6
42.5°	746.5	744.6	740.3	747.1	734.7	725.4	714.9	706.9	695.8	671.1	651.9
45°	691.5	695.8	685.9	687.8	679.7	671.7	660.6	648.8	637.7	614.2	592.6
47.5°	633.4	636.5	629.7	630.9	622.3	614.8	604.9	590.1	577.8	557.4	538.2
50°	573.4	572.2	572.2	571.0	564.2	554.9	545.0	531.4	519.1	500.5	484.5
52.5°	509.8	512.3	513.5	516.6	507.9	502.4	486.9	475.2	465.9	446.8	433.2
55°	448.6	457.3	454.8	456.0	446.1	441.8	429.5	420.2	406.6	395.5	386.8
57.5°	393.0	394.9	396.1	397.9	393.6	385.0	375.1	367.7	357.2	347.9	341.7
60°	339.2	339.2	339.9	342.9	338.6	331.2	323.8	318.2	310.8	305.3	301.5
62.5°	288.6	292.9	293.5	291.0	285.5	281.8	276.8	273.7	268.8	266.9	265.7
65°	241.6	241.6	241.6	242.8	239.8	237.3	234.2	233.6	235.4	233.0	234.2
67.5°	202.1	200.2	199.0	199.6	198.4	197.1	196.5	198.4	202.1	202.1	205.2
70°	168.1	164.4	161.9	161.9	161.9	162.5	164.4	168.1	174.3	176.7	181.1
72.5°	140.3	132.2	128.5	128.5	129.1	131.6	137.2	144.0	149.5	154.5	160.0
75°	113.7	105.7	100.1	99.5	100.7	104.4	112.5	118.6	127.9	134.7	141.5
77.5°	92.1	82.2	75.4	74.8	76.6	82.2	92.1	100.1	110.6	118.0	125.4
80°	73.5	62.4	56.8	53.1	56.2	63.0	74.2	84.0	93.9	103.8	113.1
82.5°	58.7	48.2	39.5	35.8	39.5	48.8	59.3	71.1	80.9	91.5	100.7
85°	46.3	35.2	25.3	21.6	26.0	35.8	47.6	59.3	70.4	80.9	90.2
87.5°	36.5	25.3	15.4	10.5	16.1	26.6	37.7	49.4	61.2	71.7	80.9
90°	28.4	17.9	8.7	1.2	9.3	19.2	30.3	41.4	53.1	63.6	72.9
92.5°	24.1	13.6	4.9	0.0	5.6	14.2	24.7	35.8	46.3	56.8	66.1
95°	20.4	11.1	3.7	0.0	3.7	11.1	20.4	30.3	40.8	51.3	60.6
97.5°	17.3	8.7	2.5	0.0	2.5	8.7	16.7	26.6	35.8	45.7	54.4
100°	14.8	7.4	1.9	0.0	1.9	6.8	14.2	22.9	32.1	41.4	49.4
102.5°	13.0	6.2	1.2	0.0	1.2	5.6	11.7	19.8	27.8	36.5	44.5
105°	11.1	4.9	1.2	0.0	0.6	4.3	9.9	17.3	24.7	32.8	40.2
107.5°	9.9	4.3	1.2	0.0	0.6	3.7	8.7	14.8	22.2	29.0	35.8
110°	8.7	3.7	1.2	0.0	0.6	2.5	7.4	13.0	19.2	26.0	32.8

TEST NUMBER: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.4	3.1	0.6	0.0	0.0	1.9	6.2	11.1	16.7	23.5	29.0
115°	6.8	3.1	0.6	0.0	0.0	1.2	4.9	9.9	14.8	21.0	26.0
117.5°	6.2	2.5	0.6	0.0	0.6	1.2	4.3	8.7	13.0	17.9	23.5
120°	5.6	2.5	0.6	0.0	0.6	0.6	3.1	7.4	11.1	16.1	20.4
122.5°	4.9	2.5	0.6	0.0	0.6	0.6	2.5	6.2	9.9	14.2	17.9
125°	4.3	1.9	1.2	0.6	0.6	0.6	1.9	4.9	8.7	11.7	16.1
127.5°	4.3	1.9	1.2	0.6	0.6	0.6	1.2	4.3	6.8	10.5	14.2
130°	3.7	1.9	1.2	0.6	0.6	0.6	0.6	3.1	6.2	8.7	11.7
132.5°	3.1	1.9	1.2	0.6	0.6	0.6	0.6	1.9	4.3	7.4	9.9
135°	3.1	1.9	1.2	0.6	0.6	0.6	0.6	1.2	3.1	5.6	8.0
137.5°	2.5	1.2	1.2	0.6	0.6	0.6	0.6	0.6	2.5	4.3	6.2
140°	2.5	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.9	3.1	4.9
142.5°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2	2.5	3.7
145°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	2.5
147.5°	1.9	1.9	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.9
150°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
152.5°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
155°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
157.5°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
160°	1.9	1.2	1.2	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1126.5	1114.7	1120.9	1119.1	1121.5	1126.5	1125.9	1124.6	1124.6	1122.8	1120.3
5°	1122.8	1111.6	1117.2	1114.1	1117.2	1121.5	1120.9	1119.1	1120.3	1117.2	1114.1
7.5°	1115.4	1105.5	1110.4	1107.9	1110.4	1114.7	1112.9	1112.3	1113.5	1108.6	1106.7
10°	1106.7	1095.6	1101.1	1098.1	1101.1	1104.2	1103.0	1100.5	1103.0	1098.1	1096.2
12.5°	1093.1	1083.8	1087.5	1086.3	1088.2	1091.3	1088.8	1086.9	1088.2	1083.8	1080.1
15°	1078.3	1069.0	1072.1	1070.2	1071.5	1075.2	1070.9	1070.2	1069.0	1064.7	1063.4
17.5°	1059.1	1050.5	1053.6	1050.5	1052.3	1051.1	1050.5	1047.4	1047.4	1042.4	1038.7
20°	1035.6	1028.2	1026.4	1023.9	1026.4	1023.9	1020.2	1017.7	1017.1	1012.2	1009.1
22.5°	1008.5	999.8	1001.0	994.2	994.9	991.2	985.0	982.5	980.0	974.5	970.1
25°	975.7	967.1	960.9	956.5	951.0	950.4	942.3	936.2	935.5	928.7	928.1
27.5°	938.6	928.7	923.8	913.3	906.5	900.9	894.1	888.0	884.9	877.5	872.5
30°	896.0	884.9	872.5	865.1	854.6	850.3	838.5	831.1	828.6	820.6	816.9
32.5°	847.8	836.1	826.2	812.0	800.2	794.0	782.3	774.9	771.8	763.1	758.2
35°	795.3	782.3	770.6	757.0	747.7	737.2	723.0	715.6	708.8	705.7	702.0
37.5°	740.3	726.1	712.5	698.9	690.8	678.5	666.1	661.2	653.1	650.1	646.3
40°	683.4	669.2	656.2	643.3	634.0	622.9	611.7	609.9	601.2	598.2	595.7
42.5°	627.2	612.4	597.5	588.3	581.5	570.3	562.9	561.1	553.7	551.8	551.8
45°	576.5	558.0	545.6	537.6	532.0	522.8	516.6	515.3	509.2	507.9	507.9
47.5°	522.1	504.8	495.6	490.6	485.7	478.9	475.2	475.2	469.0	467.8	467.2
50°	471.5	455.4	448.6	443.7	443.1	438.1	435.0	433.8	433.8	429.5	430.1
52.5°	423.3	415.2	409.7	406.6	402.9	399.8	397.3	397.3	395.5	392.4	393.6
55°	378.8	369.5	370.1	367.7	365.8	364.0	364.6	360.9	360.3	357.8	359.6
57.5°	334.3	334.3	333.1	331.2	328.1	329.4	329.4	329.4	326.3	324.4	326.3
60°	296.6	298.5	295.4	297.2	296.0	296.6	295.4	295.4	293.5	292.9	293.5
62.5°	263.2	266.3	265.1	267.6	266.3	266.9	268.2	265.7	264.5	263.2	264.5
65°	233.6	237.3	236.7	238.5	239.1	239.8	240.4	239.1	237.9	236.7	236.0
67.5°	207.6	211.3	213.8	214.4	215.0	216.9	216.3	215.0	213.8	211.9	211.3
70°	184.1	189.1	192.2	193.4	195.9	194.6	194.6	194.0	192.8	190.9	190.3
72.5°	164.4	169.9	173.0	174.3	176.7	176.7	176.1	175.5	174.3	172.4	171.8
75°	147.1	152.0	156.3	158.8	160.7	160.7	160.0	159.4	158.2	157.0	156.3
77.5°	133.5	137.8	141.5	144.6	145.8	146.4	145.8	144.6	144.6	144.0	143.4
80°	119.9	124.8	128.5	131.6	133.5	133.5	132.9	133.5	132.2	131.6	131.0
82.5°	108.1	113.7	118.0	121.1	122.3	123.0	122.3	123.0	121.7	121.7	121.7
85°	97.6	103.2	108.1	110.6	112.5	113.1	113.1	113.1	112.5	112.5	112.5
87.5°	89.0	94.5	99.5	102.0	103.8	104.4	104.4	105.0	103.8	103.8	103.8
90°	80.9	86.5	91.5	93.9	95.8	97.0	97.0	97.6	97.0	96.4	96.4
92.5°	73.5	79.7	84.7	87.1	89.0	90.8	90.8	91.5	90.2	90.2	90.2
95°	67.4	73.5	77.9	80.9	82.8	84.0	84.7	84.7	84.0	84.0	84.0
97.5°	61.8	67.4	71.7	74.8	76.6	77.2	77.9	78.5	77.9	77.9	77.9
100°	56.2	61.8	66.1	68.6	71.1	71.7	72.3	72.9	72.9	72.3	72.3
102.5°	51.3	56.8	60.6	63.6	65.5	66.7	67.4	67.4	67.4	67.4	67.4
105°	46.3	51.9	55.6	58.7	60.6	61.8	62.4	63.0	63.0	62.4	62.4
107.5°	42.0	47.0	51.3	53.8	56.2	57.5	58.1	58.1	58.7	58.1	58.1
110°	37.7	43.3	47.0	49.4	51.9	53.1	53.8	54.4	54.4	54.4	54.4

TEST NUMBER: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	34.6	38.9	42.6	45.1	47.6	48.8	49.4	50.1	50.7	50.1	50.1
115°	30.9	35.2	38.9	41.4	43.3	44.5	45.7	46.3	46.3	47.0	46.3
117.5°	27.8	31.5	35.2	37.7	39.5	41.4	42.0	42.6	43.3	42.6	42.6
120°	24.7	28.4	31.5	34.0	35.8	37.7	38.3	38.9	39.5	38.9	38.9
122.5°	22.2	25.3	28.4	30.9	32.8	34.0	35.2	35.2	35.8	35.8	35.8
125°	19.8	22.9	25.3	27.8	29.7	30.9	31.5	32.1	32.1	32.8	32.8
127.5°	17.3	19.8	22.9	24.7	26.6	27.8	28.4	29.0	29.0	29.7	29.7
130°	14.8	17.3	19.8	21.6	23.5	24.7	25.3	26.0	26.6	26.6	26.6
132.5°	13.0	15.4	17.3	19.2	20.4	21.6	22.9	23.5	23.5	23.5	23.5
135°	10.5	13.0	14.8	16.7	17.9	19.2	19.8	21.0	21.0	21.0	21.0
137.5°	8.7	11.1	13.0	14.2	15.4	16.7	17.3	17.9	18.5	18.5	18.5
140°	6.8	8.7	10.5	12.4	13.6	14.2	15.4	15.4	16.1	16.1	16.1
142.5°	4.9	6.8	8.0	9.9	11.1	12.4	13.0	13.6	13.6	13.6	13.6
145°	3.7	4.9	6.2	7.4	9.3	9.9	10.5	11.1	11.7	11.7	11.7
147.5°	2.5	3.7	4.3	5.6	6.8	8.0	8.7	9.3	9.9	9.9	9.9
150°	1.9	2.5	3.7	4.3	4.9	6.2	7.4	7.4	8.0	8.0	7.4
152.5°	1.2	1.9	2.5	3.1	3.7	4.3	5.6	5.6	6.2	6.2	6.2
155°	1.2	1.2	1.2	1.9	2.5	3.1	3.7	4.3	4.3	4.3	4.3
157.5°	1.2	1.2	1.2	1.2	1.2	1.9	2.5	3.1	3.1	3.1	3.1
160°	1.2	1.2	0.6	0.6	1.2	1.2	1.2	1.2	1.9	1.9	1.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1122.2	1123.4	1123.4	1122.2	1121.5	1124.0	1120.9	1109.2	1112.9	1114.1	1117.8
5°	1116.6	1117.8	1117.8	1117.8	1116.6	1119.1	1116.0	1104.2	1108.6	1110.4	1112.9
7.5°	1108.6	1109.2	1110.4	1109.8	1108.6	1112.3	1109.2	1097.4	1100.5	1103.6	1106.7
10°	1098.1	1098.1	1098.7	1099.9	1098.7	1101.8	1098.7	1088.2	1091.3	1093.1	1096.8
12.5°	1083.8	1085.1	1085.7	1085.1	1084.5	1086.9	1085.7	1075.8	1077.0	1080.8	1084.5
15°	1064.7	1064.7	1067.8	1066.5	1066.5	1069.0	1070.2	1059.1	1061.0	1066.5	1070.2
17.5°	1041.2	1041.8	1044.3	1045.5	1044.9	1049.2	1049.9	1041.2	1040.6	1047.4	1051.1
20°	1010.9	1012.2	1015.3	1017.7	1017.7	1022.7	1024.5	1019.0	1019.6	1027.0	1028.2
22.5°	973.9	973.9	979.4	983.1	986.2	989.3	994.9	989.9	989.9	999.8	1005.4
25°	928.1	932.4	934.3	941.7	946.0	954.7	959.6	960.3	960.9	970.1	973.9
27.5°	877.5	878.7	884.3	892.9	897.8	905.9	915.1	917.0	920.1	932.4	938.0
30°	820.0	823.7	826.2	838.5	845.3	855.8	867.6	871.9	874.4	891.0	897.8
32.5°	761.3	762.5	773.0	779.8	787.9	799.0	812.6	820.6	825.5	842.9	852.7
35°	702.6	705.1	713.7	722.4	730.4	741.5	755.7	766.8	775.5	790.9	803.9
37.5°	648.8	655.0	656.9	665.5	671.7	682.8	692.7	708.8	717.4	733.5	750.2
40°	600.6	602.5	603.7	612.4	616.7	627.2	641.4	651.9	663.7	675.4	695.2
42.5°	553.0	554.3	556.1	561.1	566.0	573.4	583.9	594.4	606.8	624.1	637.1
45°	509.2	510.4	511.6	514.7	519.1	525.9	532.7	540.1	552.4	567.3	580.8
47.5°	468.4	470.9	470.9	471.5	474.6	480.1	485.1	494.3	501.1	509.2	524.6
50°	429.5	431.3	431.9	431.9	433.8	437.5	438.7	444.9	451.1	458.5	469.6
52.5°	393.0	393.0	392.4	394.9	394.9	397.3	397.9	401.7	406.0	414.0	419.0
55°	358.4	358.4	360.3	359.0	359.0	360.3	359.6	360.3	364.0	368.9	373.2
57.5°	325.0	324.4	326.3	325.0	324.4	325.6	326.9	324.4	325.0	330.0	330.0
60°	291.7	292.3	294.1	292.9	292.9	292.9	291.7	290.4	289.2	292.3	293.5
62.5°	265.1	263.2	265.1	263.2	264.5	263.9	262.6	260.1	260.8	259.5	258.3
65°	237.3	237.3	237.9	236.0	237.3	237.3	235.4	234.8	231.1	229.9	226.8
67.5°	213.2	213.2	213.8	212.6	212.6	213.2	211.3	209.5	205.8	203.9	199.6
70°	192.2	192.2	192.2	191.6	191.6	191.6	190.3	187.8	184.1	181.1	175.5
72.5°	173.0	173.6	173.0	173.0	174.9	173.0	171.2	168.7	165.6	159.4	154.5
75°	157.6	158.2	157.6	157.6	157.6	157.0	156.3	152.6	148.9	144.0	136.6
77.5°	144.0	144.0	144.6	144.0	144.0	143.4	141.5	138.4	134.1	129.8	121.1
80°	131.0	131.6	132.2	132.9	131.6	131.0	129.1	126.7	121.1	116.2	107.5
82.5°	121.7	121.1	121.7	122.3	121.1	120.5	118.6	115.6	111.2	104.4	95.8
85°	112.5	111.8	111.8	112.5	111.8	110.6	108.8	105.7	101.3	94.5	85.9
87.5°	103.2	103.8	104.4	103.8	103.2	102.0	100.1	97.0	92.1	86.5	77.2
90°	96.4	96.4	96.4	96.4	95.8	94.5	92.7	89.0	84.7	77.9	69.8
92.5°	90.2	90.2	90.2	90.2	89.6	87.7	85.9	82.8	77.9	71.1	63.6
95°	84.0	84.7	84.0	84.0	82.8	82.2	79.1	76.0	71.7	64.9	56.8
97.5°	77.2	77.9	77.2	77.2	76.6	75.4	73.5	69.8	65.5	59.3	51.9
100°	72.3	72.3	71.7	71.7	71.1	69.8	67.4	64.3	59.9	53.8	46.3
102.5°	66.7	67.4	66.7	66.7	65.5	64.3	62.4	59.3	55.0	48.8	42.0
105°	62.4	62.4	61.8	61.8	60.6	59.3	57.5	53.8	50.1	44.5	37.7
107.5°	58.1	58.1	57.5	57.5	56.2	55.0	52.5	49.4	45.7	40.2	34.0
110°	53.8	53.8	53.8	53.1	51.9	50.1	48.2	45.1	41.4	36.5	30.3

TEST NUMBER: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	50.7	50.1	49.4	48.8	47.6	46.3	43.9	40.8	37.1	32.8	27.2
115°	46.3	46.3	45.7	45.1	43.9	42.0	40.2	37.7	34.0	29.0	24.1
117.5°	42.6	42.6	42.0	41.4	40.2	38.3	36.5	34.0	30.3	26.0	21.6
120°	38.9	38.9	38.3	37.7	36.5	34.6	33.4	30.3	27.2	22.9	19.2
122.5°	35.8	35.2	35.2	34.0	33.4	31.5	29.7	27.2	24.1	20.4	16.7
125°	32.1	32.1	31.5	30.9	30.3	28.4	26.6	24.1	21.0	17.9	14.8
127.5°	29.0	29.0	28.4	27.8	27.2	25.3	23.5	21.6	18.5	15.4	12.4
130°	26.0	26.0	25.3	24.7	24.1	22.2	21.0	18.5	16.1	13.6	10.5
132.5°	23.5	23.5	22.9	22.2	21.0	19.8	18.5	16.1	14.2	11.7	9.3
135°	21.0	20.4	20.4	19.8	18.5	17.3	16.1	14.2	11.7	9.9	7.4
137.5°	18.5	17.9	17.3	16.7	16.1	14.8	13.6	12.4	10.5	8.0	6.2
140°	16.1	15.4	15.4	14.8	13.6	13.0	11.7	9.9	8.7	6.8	4.9
142.5°	13.6	13.6	13.0	12.4	11.7	11.1	9.9	8.7	6.8	5.6	3.7
145°	11.7	11.1	11.1	10.5	9.9	8.7	8.0	6.8	5.6	4.3	3.1
147.5°	9.3	9.3	9.3	8.7	8.0	7.4	6.8	5.6	4.3	3.1	1.9
150°	7.4	7.4	7.4	6.8	6.2	5.6	4.9	4.3	3.1	1.9	1.2
152.5°	6.2	6.2	5.6	5.6	4.9	4.3	3.7	3.1	1.9	1.2	1.2
155°	4.3	4.3	4.3	3.7	3.7	3.1	2.5	1.9	1.2	1.2	1.2
157.5°	3.1	3.1	3.1	2.5	2.5	1.9	1.9	1.2	1.2	1.2	1.2
160°	1.9	1.9	1.9	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1116.0	1115.4	1120.3	1120.3	1114.7	1123.4	1132.7
5°	1112.3	1111.6	1116.6	1116.6	1111.6	1120.3	1130.2
7.5°	1104.9	1105.5	1110.4	1111.6	1105.5	1113.5	1124.0
10°	1096.8	1096.2	1101.8	1103.0	1098.1	1105.5	1115.4
12.5°	1083.8	1083.8	1089.4	1091.3	1086.3	1095.0	1104.2
15°	1070.2	1070.2	1074.0	1077.0	1072.7	1080.8	1090.0
17.5°	1052.9	1052.3	1056.0	1059.7	1055.4	1064.1	1074.0
20°	1030.7	1030.7	1035.0	1039.4	1036.3	1044.3	1055.4
22.5°	1007.2	1004.7	1012.2	1015.3	1013.4	1021.4	1032.6
25°	977.6	976.9	984.4	988.7	986.2	994.9	1004.7
27.5°	945.4	944.8	952.2	957.8	956.5	964.6	975.7
30°	906.5	909.6	916.4	925.7	922.6	931.2	943.0
32.5°	865.7	868.8	876.8	886.7	887.3	894.1	905.9
35°	816.9	824.9	830.5	843.5	845.9	852.7	865.1
37.5°	765.6	774.9	786.6	796.5	801.4	807.0	821.2
40°	708.1	721.7	734.7	746.5	752.6	758.2	771.8
42.5°	656.2	666.7	679.1	690.8	702.0	706.9	721.1
45°	597.5	609.9	621.0	635.2	646.3	651.9	666.1
47.5°	540.1	552.4	567.3	577.1	588.9	594.4	608.0
50°	485.1	496.2	508.6	520.3	530.2	535.1	546.9
52.5°	430.7	442.4	454.2	461.6	472.1	475.8	485.7
55°	382.5	390.5	401.0	405.4	415.9	418.3	425.1
57.5°	336.2	341.7	345.4	352.8	360.3	365.8	373.8
60°	294.1	296.6	299.1	303.4	309.6	311.4	314.5
62.5°	256.4	255.8	260.8	262.0	262.6	268.8	265.7
65°	223.1	223.7	219.4	217.5	220.0	221.8	220.6
67.5°	195.3	191.6	187.8	183.5	179.8	181.7	179.8
70°	168.1	165.0	158.8	152.6	150.2	146.4	144.6
72.5°	146.4	139.0	132.9	124.8	120.5	116.2	113.1
75°	129.8	119.3	110.6	102.0	95.8	89.6	88.4
77.5°	112.5	102.6	92.7	83.4	74.2	67.4	64.9
80°	98.9	89.6	77.9	66.7	56.8	48.2	45.1
82.5°	86.5	76.6	64.9	53.1	42.0	32.8	29.0
85°	76.0	65.5	53.8	42.0	30.9	21.0	16.1
87.5°	68.0	56.2	44.5	33.4	21.6	11.7	6.2
90°	60.6	49.4	38.3	26.6	15.4	6.2	0.0
92.5°	53.8	43.3	32.1	21.6	11.7	3.7	0.6
95°	47.6	38.3	27.2	17.3	8.7	2.5	0.6
97.5°	42.6	33.4	23.5	14.2	6.8	1.9	0.6
100°	38.3	29.0	20.4	11.7	5.6	1.2	0.6
102.5°	34.0	26.0	17.3	9.9	4.3	0.6	0.6
105°	30.3	22.9	14.8	8.7	3.7	0.6	0.6
107.5°	27.2	20.4	13.0	7.4	2.5	0.6	0.6
110°	24.1	17.3	11.1	6.2	1.9	0.6	0.6

TEST NUMBER: P1213344

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	21.6	15.4	9.9	4.9	1.2	0.6	0.6
115°	19.2	13.6	8.7	4.3	1.2	0.6	0.6
117.5°	16.7	11.7	7.4	3.1	0.6	0.6	0.6
120°	14.8	10.5	6.2	2.5	0.6	0.6	0.6
122.5°	13.0	8.7	4.9	1.9	0.6	0.6	0.6
125°	11.1	7.4	4.3	1.2	0.6	0.6	0.6
127.5°	9.3	6.2	3.1	1.2	0.6	0.6	0.6
130°	8.0	4.9	2.5	0.6	0.6	0.6	0.6
132.5°	6.8	3.7	1.9	0.6	0.6	0.6	0.6
135°	5.6	3.1	1.2	0.6	0.6	0.6	0.6
137.5°	4.3	2.5	1.2	0.6	0.6	0.6	0.6
140°	3.1	1.9	0.6	0.6	0.6	0.6	0.6
142.5°	2.5	1.2	0.6	0.6	0.6	0.6	0.6
145°	1.9	1.2	0.6	0.6	0.6	0.6	0.6
147.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6
150°	1.2	1.2	0.6	0.6	1.2	0.6	0.6
152.5°	1.2	0.6	0.6	0.6	1.2	0.6	0.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	0.6
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)