

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: P1212993

Luminaire Tested: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212993
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

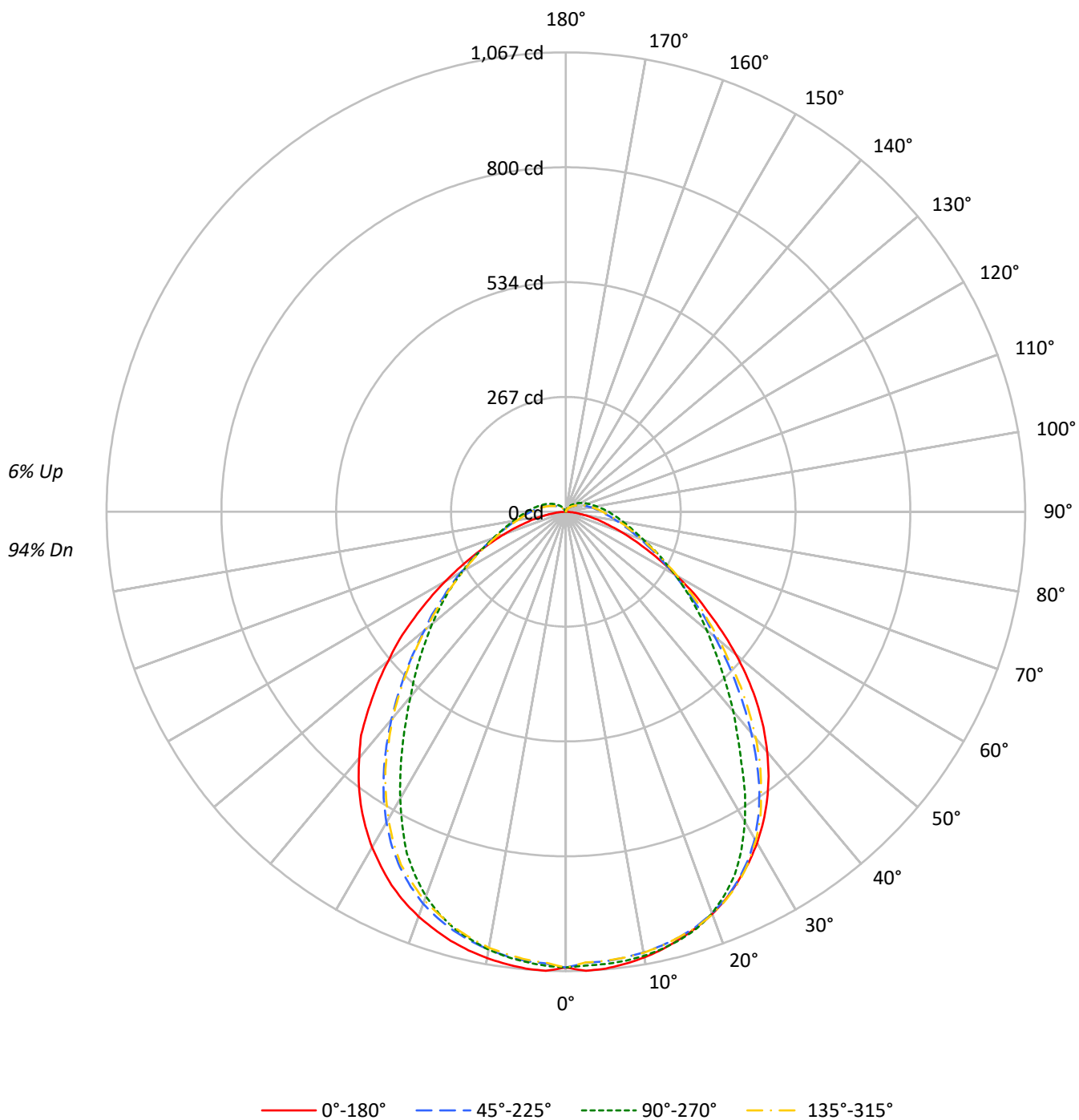
Lumens per Lamp: N/A
Luminaire Lumens: 2679.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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



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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°	17109	17109	17109	17109
5°	17184	16564	17184	16492
10°	17060	16124	17090	15900
15°	16903	15642	16980	15235
20°	16724	15023	16823	14389
25°	16406	14103	16588	13273
30°	16006	12754	16215	11807
35°	15410	11099	15706	10335
40°	14580	9707	14965	9006
45°	13503	8437	13942	7954
50°	12058	7414	12590	7041
55°	10363	6547	11116	6217
60°	8645	5749	9427	5418
65°	7011	5083	7716	4712
70°	5497	4511	6154	4171
75°	4218	4164	4744	3831
80°	2920	4019	3443	3671
85°	1633	4041	2207	3715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 13942 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.7
10°-20°	287.8	10.7
20°-30°	426.5	15.9
30°-40°	473.8	17.7
40°-50°	429.5	16.0
50°-60°	332.8	12.4
60°-70°	226.0	8.4
70°-80°	143.8	5.4
80°-90°	91.9	3.4
90°-100°	62.0	2.3
100°-110°	42.5	1.6
110°-120°	28.3	1.1
120°-130°	17.6	0.7
130°-140°	9.7	0.4
140°-150°	4.6	0.2
150°-160°	1.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	814.6	30.4
0°-40°	1288.5	48.1
0°-60°	2050.8	76.6
0°-90°	2512.5	93.8
90°-120°	132.8	5.0
90°-150°	164.7	6.1
90°-180°	166.0	6.2
0°-180°	2679.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1059	1059	1059	1059	1059	
5°	1065	1054	1065	1050	1065	101
15°	1027	1029	1032	1002	1027	290
25°	947	929	957	875	947	436
35°	815	710	831	662	815	509
45°	628	508	648	479	628	482
55°	401	357	430	339	401	361
65°	208	240	229	222	208	208
75°	83	160	94	147	83	90
85°	15	115	20	106	15	18
90°	0	100	1	91	0	1
95°	1	85	0	79	1	0
105°	1	62	0	59	1	1
115°	1	47	0	44	1	1
125°	1	35	1	31	1	1
135°	1	24	1	20	1	0
145°	1	16	1	11	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	

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CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1067.3	1066.2	1065.0	1063.2	1065.0	1069.6	1066.7	1060.3	1059.2	1048.7	1053.3
5°	1065.0	1063.2	1062.1	1060.3	1062.7	1068.5	1065.6	1059.7	1058.0	1048.1	1053.3
7.5°	1059.2	1058.0	1056.3	1056.3	1058.6	1064.4	1062.1	1055.7	1054.5	1044.6	1050.4
10°	1051.0	1050.4	1049.3	1049.3	1051.6	1058.6	1055.7	1049.9	1048.7	1039.4	1045.8
12.5°	1040.5	1041.1	1039.4	1039.4	1042.9	1049.9	1047.5	1041.1	1040.0	1031.8	1038.2
15°	1027.1	1027.7	1026.6	1027.1	1030.6	1038.8	1035.9	1030.1	1028.9	1022.5	1027.7
17.5°	1012.0	1012.6	1012.6	1012.0	1016.1	1024.2	1021.9	1016.7	1014.9	1009.7	1016.1
20°	994.5	994.5	994.5	994.5	999.2	1007.3	1004.4	1000.4	996.9	992.8	998.0
22.5°	973.0	972.4	973.0	974.7	979.4	985.8	984.1	979.4	974.2	971.8	975.9
25°	946.8	948.5	949.1	950.9	956.7	961.9	960.2	955.5	947.4	945.6	946.8
27.5°	919.4	920.6	922.3	921.7	929.9	935.1	931.6	927.6	915.9	914.2	913.0
30°	888.6	890.3	891.5	890.9	897.3	903.1	899.6	894.4	878.7	877.5	868.2
32.5°	853.6	855.4	856.5	856.5	865.9	868.2	861.8	854.2	837.3	833.2	825.1
35°	815.2	816.9	817.5	817.5	826.8	826.3	818.1	807.6	789.0	783.7	769.8
37.5°	773.9	775.0	775.6	779.1	783.2	779.7	769.2	755.8	741.8	727.3	712.1
40°	727.3	729.0	730.2	732.5	736.6	732.5	717.4	701.1	685.9	669.6	654.5
42.5°	679.5	684.8	683.6	683.0	685.3	674.3	662.6	644.0	628.9	612.0	596.8
45°	627.7	627.1	630.0	631.2	630.6	621.3	605.0	588.1	573.0	555.5	542.7
47.5°	573.0	572.4	574.7	575.9	572.4	562.5	549.7	530.5	517.6	502.5	492.6
50°	515.3	515.3	518.8	515.3	513.6	503.7	493.2	474.0	464.1	450.7	444.9
52.5°	457.7	462.9	459.4	458.3	456.5	446.6	438.5	422.7	414.6	408.8	401.8
55°	400.6	406.4	404.1	402.4	401.8	393.6	386.1	374.4	369.2	365.1	361.0
57.5°	352.3	351.7	350.5	348.8	349.4	343.0	335.4	329.0	326.7	324.9	326.1
60°	296.4	301.0	299.3	299.9	300.5	299.3	292.9	288.8	289.4	290.0	291.7
62.5°	250.4	254.5	257.4	255.0	256.2	258.0	254.5	253.3	255.6	258.0	260.3
65°	207.9	211.9	214.9	214.3	217.8	221.3	220.7	221.8	227.1	230.0	232.9
67.5°	169.4	173.5	177.6	178.2	183.4	188.7	191.0	195.1	200.9	205.0	208.5
70°	136.3	139.7	144.4	147.3	154.3	161.3	165.4	173.5	177.0	182.8	185.2
72.5°	106.6	109.5	115.9	122.9	128.7	137.4	145.6	152.6	157.8	164.2	167.1
75°	83.3	84.4	91.4	99.6	107.7	117.6	126.4	133.9	140.9	147.3	152.0
77.5°	61.1	62.9	69.3	80.4	89.7	100.2	110.1	118.2	125.8	132.2	138.6
80°	42.5	46.0	53.0	64.1	74.5	86.2	95.5	104.8	113.0	119.4	125.8
82.5°	27.4	30.3	40.2	51.2	62.3	73.9	83.8	93.2	101.9	108.9	114.7
85°	15.1	19.2	29.1	40.8	51.8	63.5	73.9	83.3	92.0	98.4	104.2
87.5°	5.8	11.6	21.0	32.0	43.1	54.2	65.2	73.9	82.7	89.7	94.9
90°	0.0	7.0	15.7	26.8	37.8	48.9	59.4	68.7	76.9	83.3	89.1
92.5°	0.6	4.7	12.2	21.5	32.0	42.5	52.4	61.7	69.9	76.3	81.5
95°	0.6	3.5	9.9	18.6	27.9	37.8	47.2	55.9	63.5	69.9	75.1
97.5°	0.6	2.3	8.2	16.3	24.5	34.4	43.1	51.2	58.2	64.6	68.7
100°	0.6	2.3	7.0	14.0	22.1	30.9	39.0	47.2	53.6	58.8	63.5
102.5°	0.6	1.7	5.8	12.2	19.8	27.4	35.5	43.1	48.9	54.2	58.8
105°	0.6	1.7	5.2	10.5	17.5	25.0	32.0	39.0	45.4	50.1	54.2
107.5°	0.6	1.2	4.7	8.7	15.1	22.7	29.7	35.5	41.3	46.0	50.1
110°	0.6	1.2	4.1	8.2	13.4	20.4	26.8	32.6	37.8	42.5	46.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.2	3.5	7.6	12.2	18.1	24.5	29.7	34.9	39.0	42.5
115°	0.6	1.2	3.5	7.0	11.1	15.7	21.5	27.4	31.4	36.1	39.0
117.5°	0.6	1.2	2.9	5.8	10.5	14.6	19.8	24.5	29.1	33.2	36.1
120°	0.6	1.2	2.9	5.2	9.3	13.4	17.5	22.1	26.8	29.7	32.6
122.5°	0.6	1.2	2.3	5.2	8.2	12.2	15.7	19.8	23.9	27.4	30.3
125°	0.6	1.2	2.3	4.7	7.6	11.1	14.6	17.5	21.5	24.5	27.4
127.5°	0.6	1.2	2.3	4.1	7.0	9.9	13.4	16.3	19.2	22.1	24.5
130°	0.6	1.2	1.7	3.5	6.4	8.7	11.6	15.1	17.5	19.8	22.1
132.5°	0.6	1.2	1.7	3.5	5.2	7.6	10.5	13.4	15.7	18.1	19.8
135°	0.6	1.2	1.7	2.9	4.7	7.0	8.7	11.6	14.0	16.3	18.1
137.5°	0.6	1.2	1.7	2.9	4.1	5.8	7.6	9.9	12.2	14.0	16.3
140°	0.6	1.2	1.7	2.3	3.5	5.2	7.0	8.2	10.5	12.2	14.0
142.5°	0.6	1.2	1.7	2.3	3.5	4.7	5.8	7.0	8.7	10.5	12.2
145°	0.6	1.2	1.7	2.3	2.9	4.1	5.2	6.4	7.0	8.7	9.9
147.5°	0.6	1.2	1.7	2.3	2.3	3.5	4.7	5.2	6.4	7.0	8.2
150°	0.6	1.2	1.7	1.7	2.3	2.9	4.1	4.7	5.2	6.4	7.0
152.5°	0.6	1.2	1.7	1.7	2.3	2.9	3.5	4.1	4.7	5.2	5.8
155°	0.6	1.2	1.7	1.7	1.7	2.3	2.9	3.5	4.1	4.7	5.2
157.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	3.5	3.5	4.1
160°	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.9	2.9	3.5
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°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1052.2	1053.9	1059.2	1059.2	1058.0	1056.8	1056.8	1055.1	1056.3	1058.6	1057.4
5°	1052.2	1053.9	1059.2	1059.2	1058.0	1056.8	1056.3	1054.5	1056.3	1058.6	1057.4
7.5°	1048.7	1051.0	1056.3	1056.3	1055.1	1054.5	1053.3	1052.2	1053.9	1056.3	1055.1
10°	1044.0	1046.4	1051.6	1051.6	1050.4	1050.4	1048.7	1047.5	1049.9	1051.6	1051.0
12.5°	1037.0	1040.0	1044.6	1044.0	1042.9	1043.4	1041.7	1039.4	1041.7	1043.4	1044.0
15°	1027.1	1030.6	1035.3	1034.1	1032.4	1033.5	1030.6	1028.9	1030.6	1034.1	1033.5
17.5°	1014.3	1016.7	1020.2	1020.2	1018.4	1017.2	1016.1	1014.3	1015.5	1017.8	1018.4
20°	996.3	999.2	1000.9	999.2	998.6	996.9	994.5	992.8	995.1	998.6	999.2
22.5°	972.4	973.0	977.1	973.0	970.1	969.5	967.2	963.7	967.2	970.1	970.7
25°	942.7	945.6	943.9	936.9	936.9	932.2	931.1	929.3	929.9	935.1	937.5
27.5°	904.9	906.0	901.4	895.5	890.3	887.4	883.3	883.9	883.9	890.9	893.2
30°	863.5	857.1	853.0	843.7	839.6	832.7	831.5	831.5	830.3	833.8	844.3
32.5°	814.0	805.3	798.9	790.2	783.2	776.2	772.7	774.4	773.9	782.6	786.1
35°	759.9	754.6	741.2	730.2	726.1	715.6	715.6	710.4	713.9	723.8	727.8
37.5°	702.8	694.7	683.6	671.4	668.5	660.3	657.4	654.5	662.1	663.8	667.9
40°	644.6	637.0	626.5	614.9	614.9	605.0	605.0	605.0	605.6	609.1	616.6
42.5°	589.3	581.1	571.8	563.6	562.5	554.9	554.9	554.3	555.5	558.4	565.4
45°	535.7	529.3	519.4	515.3	515.9	507.7	509.5	507.7	510.1	513.0	515.3
47.5°	486.2	482.1	478.1	472.2	470.5	469.9	467.0	464.7	468.7	468.7	472.2
50°	440.2	437.9	435.5	432.1	432.6	430.3	426.8	426.8	429.7	430.3	432.6
52.5°	400.0	397.1	394.2	394.8	395.4	394.2	392.5	390.7	392.5	393.6	396.5
55°	359.8	357.5	360.4	359.3	360.4	359.3	358.1	356.9	359.8	358.1	361.0
57.5°	323.7	326.1	327.2	324.9	326.7	325.5	326.1	324.3	326.7	327.8	327.2
60°	290.6	294.1	292.3	292.9	295.2	294.1	291.7	293.5	295.8	296.4	295.8
62.5°	260.3	264.4	266.1	264.9	265.5	264.4	266.1	263.8	266.7	267.8	266.1
65°	232.9	237.6	238.7	238.7	238.7	237.6	239.3	239.9	241.1	241.1	239.9
67.5°	209.6	213.7	214.9	216.0	214.9	213.7	213.7	214.3	216.6	217.8	216.6
70°	188.7	192.7	193.3	193.3	193.9	195.1	192.7	193.9	195.6	196.2	195.6
72.5°	170.6	174.7	175.8	175.3	175.8	176.4	176.4	175.3	177.0	178.2	178.2
75°	156.1	158.4	159.5	159.5	160.1	160.7	160.7	160.1	161.3	161.9	162.5
77.5°	142.7	144.4	146.2	146.2	146.7	146.2	147.3	147.3	147.9	148.5	149.1
80°	129.3	131.6	132.8	133.3	134.5	135.1	135.1	135.1	135.7	136.3	136.3
82.5°	118.8	120.5	122.3	124.0	124.0	124.6	124.6	124.6	125.2	125.2	125.8
85°	108.3	110.6	112.4	113.5	114.1	114.7	114.7	115.3	115.3	115.3	115.9
87.5°	99.0	101.9	103.1	104.2	104.8	106.0	106.0	106.0	106.6	106.6	106.6
90°	92.6	95.5	96.7	97.8	98.4	99.0	99.0	99.6	99.6	100.2	100.2
92.5°	85.0	87.9	90.3	90.3	90.8	92.0	91.4	91.4	92.0	92.6	92.6
95°	79.2	81.5	83.3	83.8	84.4	84.4	84.4	85.0	84.4	85.0	85.0
97.5°	72.2	74.5	76.3	77.4	78.0	78.0	78.0	78.6	78.0	78.6	78.6
100°	66.4	68.7	70.5	71.0	72.2	72.2	72.2	72.2	72.2	72.2	72.8
102.5°	61.7	64.1	65.2	65.8	66.4	67.0	67.0	67.0	67.0	67.5	67.5
105°	57.1	59.4	60.6	61.1	61.7	62.3	62.3	62.3	62.9	62.9	62.3
107.5°	53.0	54.7	55.9	57.1	57.6	57.6	58.2	58.2	58.2	58.2	58.2
110°	48.9	50.7	52.4	53.6	53.6	54.2	54.2	54.7	54.7	54.2	54.7

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	44.8	47.2	48.3	49.5	50.1	50.7	50.7	50.7	50.7	50.7	50.7
115°	41.3	43.7	44.8	46.0	46.6	47.2	47.2	47.2	47.2	47.2	47.2
117.5°	38.4	40.8	41.9	42.5	43.1	43.7	44.3	44.3	44.3	44.3	43.7
120°	35.5	37.3	38.4	39.6	40.2	40.8	40.8	40.8	40.8	40.8	40.8
122.5°	32.6	34.4	35.5	36.7	37.3	37.8	37.8	37.8	37.8	37.8	37.8
125°	29.7	31.4	32.6	33.8	34.4	34.9	34.9	34.9	34.9	34.9	34.9
127.5°	26.8	28.5	30.3	30.9	31.4	32.0	32.0	32.0	32.6	32.0	32.0
130°	23.9	25.6	27.4	27.9	28.5	29.1	29.7	29.7	29.7	29.7	29.1
132.5°	21.5	23.3	24.5	25.0	26.2	26.2	26.8	26.8	26.8	26.8	26.2
135°	19.8	21.0	22.1	22.7	23.9	23.9	23.9	24.5	24.5	23.9	23.3
137.5°	17.5	18.6	19.8	20.4	21.0	21.5	21.5	22.1	21.5	21.5	21.5
140°	16.3	16.9	18.1	18.6	19.2	19.2	19.2	19.8	19.8	19.2	19.2
142.5°	14.0	15.1	16.3	16.9	17.5	17.5	17.5	17.5	17.5	17.5	17.5
145°	11.6	13.4	14.0	15.1	15.1	15.7	15.7	15.7	15.7	15.7	15.1
147.5°	9.9	11.1	12.8	13.4	13.4	14.0	14.0	14.0	14.0	14.0	13.4
150°	7.6	8.7	10.5	11.6	11.6	12.2	12.2	12.2	12.2	11.6	11.6
152.5°	6.4	7.6	8.2	9.3	9.9	9.9	9.9	10.5	9.9	9.9	9.9
155°	5.8	6.4	7.0	7.6	8.2	8.7	8.7	8.7	8.7	8.2	8.2
157.5°	4.7	5.2	5.8	6.4	7.0	7.6	7.6	7.6	7.6	7.6	7.0
160°	3.5	4.1	4.7	4.7	5.2	5.8	6.4	5.8	5.8	5.8	5.8
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: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1056.3	1055.7	1057.4	1054.5	1045.8	1048.1	1046.9	1052.2	1053.3	1054.5	1059.7
5°	1056.3	1055.7	1056.8	1054.5	1045.2	1046.9	1045.8	1051.0	1052.2	1052.8	1058.0
7.5°	1053.9	1053.3	1055.1	1052.2	1042.3	1044.6	1042.9	1048.1	1048.7	1049.3	1053.9
10°	1049.3	1048.7	1049.9	1047.5	1037.6	1040.0	1037.6	1042.9	1042.9	1044.0	1047.5
12.5°	1042.3	1041.1	1043.4	1040.5	1029.5	1032.4	1031.2	1034.7	1035.3	1035.9	1039.4
15°	1032.4	1031.2	1033.0	1031.2	1021.3	1021.9	1020.2	1025.4	1026.0	1024.8	1028.3
17.5°	1017.8	1016.7	1020.2	1019.0	1009.1	1011.4	1010.8	1012.0	1013.7	1010.8	1015.5
20°	999.8	1000.9	1002.1	1002.7	995.1	995.1	994.5	996.9	998.6	996.3	999.8
22.5°	973.0	975.9	979.4	980.6	975.3	974.7	978.2	977.1	978.8	977.6	980.0
25°	939.2	945.0	948.5	952.0	949.1	950.3	955.5	956.7	956.7	956.1	958.4
27.5°	897.3	904.9	911.3	918.8	915.9	918.3	927.0	928.2	930.5	928.2	932.8
30°	847.2	854.2	866.4	877.5	878.7	882.2	894.4	895.5	902.0	899.6	901.4
32.5°	797.1	800.6	814.6	825.7	832.7	841.4	854.8	857.1	865.9	867.6	867.6
35°	734.3	744.2	757.0	772.7	781.4	790.7	808.8	812.3	825.1	829.2	833.8
37.5°	681.3	690.6	698.7	715.0	730.8	741.2	755.8	764.5	777.9	785.5	791.3
40°	624.8	632.4	641.1	657.4	670.8	686.5	701.1	711.5	728.4	737.2	744.7
42.5°	571.2	577.0	586.4	598.0	612.0	629.4	643.4	655.6	673.7	685.9	694.7
45°	523.5	527.0	535.1	543.8	556.1	574.1	587.5	603.2	617.8	630.6	641.1
47.5°	478.6	483.3	487.4	493.2	504.3	515.3	531.0	546.2	560.7	574.7	585.2
50°	437.3	437.3	443.7	447.8	455.3	465.2	477.5	488.0	506.0	515.9	529.3
52.5°	397.1	399.4	402.9	405.3	411.1	417.5	427.4	436.1	451.3	460.6	473.4
55°	361.6	363.9	365.7	366.8	370.3	377.9	381.4	388.4	398.9	406.4	417.5
57.5°	327.8	329.0	330.7	331.3	331.9	336.6	339.5	341.2	351.7	359.3	368.6
60°	297.0	297.0	298.7	298.1	297.5	299.9	299.3	301.0	307.4	312.1	316.2
62.5°	267.8	267.8	268.4	267.3	266.7	266.7	264.4	266.1	267.8	268.4	271.3
65°	241.1	244.0	241.6	242.2	238.7	237.6	236.4	232.9	232.3	230.0	231.2
67.5°	217.2	219.5	217.2	217.2	214.3	211.9	209.0	203.2	201.5	196.8	195.6
70°	198.0	196.2	197.4	195.6	192.2	189.2	185.2	180.5	174.7	168.9	164.8
72.5°	179.3	179.3	178.2	176.4	174.7	168.9	164.2	159.0	152.0	144.4	138.6
75°	161.3	161.9	161.9	160.1	157.2	152.0	146.7	139.2	131.6	122.9	115.3
77.5°	148.5	148.5	148.5	145.6	142.7	138.0	131.6	123.4	115.3	104.8	96.1
80°	136.3	135.7	135.7	132.2	129.3	124.0	117.6	109.5	100.7	89.7	79.8
82.5°	126.4	125.8	124.6	121.7	117.6	112.4	106.0	97.2	87.9	78.0	65.8
85°	115.9	115.3	114.1	111.2	107.1	102.5	95.5	86.8	77.4	66.4	54.7
87.5°	106.6	106.0	104.2	102.5	97.8	92.6	85.6	77.4	67.5	57.1	45.4
90°	100.2	99.0	97.8	95.5	91.4	85.6	78.6	69.9	60.0	49.5	37.8
92.5°	92.6	92.0	90.3	87.9	84.4	78.6	71.6	63.5	53.6	43.7	32.6
95°	85.0	84.4	83.3	80.9	77.4	72.2	65.8	57.6	48.3	38.4	28.5
97.5°	78.0	78.0	76.3	74.5	70.5	66.4	60.0	52.4	43.7	34.9	25.6
100°	72.2	72.2	70.5	68.1	65.2	61.1	54.7	47.7	39.6	31.4	22.1
102.5°	67.0	66.4	65.2	62.9	60.0	55.9	50.1	43.7	36.1	27.9	19.8
105°	62.3	61.7	60.6	58.2	55.9	51.2	46.6	40.2	32.6	25.0	17.5
107.5°	57.6	57.1	56.5	54.2	51.2	47.2	42.5	36.1	29.7	22.7	15.7
110°	53.6	53.0	51.8	49.5	46.6	43.1	38.4	33.2	26.8	20.4	14.0

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	50.1	49.5	48.3	46.0	43.7	39.6	35.5	29.7	24.5	18.6	12.2
115°	46.6	46.0	44.8	42.5	39.6	36.1	32.0	27.4	21.5	16.3	11.1
117.5°	43.1	42.5	41.3	39.6	36.7	33.2	29.1	24.5	19.2	15.1	9.9
120°	40.2	39.0	37.8	36.1	33.2	30.3	26.2	22.1	17.5	13.4	8.7
122.5°	37.3	36.1	34.9	33.2	30.3	27.4	23.3	19.8	16.3	12.2	8.2
125°	33.8	33.2	32.0	30.3	27.4	24.5	21.5	18.1	14.6	11.1	7.0
127.5°	30.9	30.3	29.1	26.8	24.5	22.1	19.2	16.3	12.8	9.3	6.4
130°	28.5	27.4	26.2	24.5	22.7	20.4	17.5	14.6	11.6	8.2	5.8
132.5°	25.6	24.5	23.3	22.1	20.4	18.1	15.7	12.8	10.5	7.6	5.2
135°	23.3	22.1	21.0	19.8	18.1	16.3	14.0	11.6	9.3	7.0	4.7
137.5°	20.4	19.8	19.2	18.1	16.3	14.6	12.8	9.9	8.2	6.4	4.1
140°	18.6	18.1	17.5	15.7	14.6	12.8	11.1	8.7	7.0	5.2	3.5
142.5°	16.9	16.3	15.1	14.0	12.8	11.6	9.3	8.2	6.4	4.7	3.5
145°	14.6	14.0	13.4	12.2	11.1	9.3	8.2	7.0	5.8	4.1	2.9
147.5°	13.4	12.8	11.6	10.5	9.3	8.2	7.6	6.4	4.7	3.5	2.3
150°	11.1	10.5	9.9	8.7	8.2	7.6	6.4	5.2	4.1	2.9	2.3
152.5°	9.3	8.7	8.2	8.2	7.0	6.4	5.2	4.7	3.5	2.9	1.7
155°	8.2	8.2	7.6	7.0	5.8	5.2	4.7	3.5	2.9	2.3	1.7
157.5°	7.0	6.4	5.8	5.8	5.2	4.7	3.5	2.9	2.3	2.3	1.7
160°	5.8	5.2	5.2	4.7	4.1	3.5	2.9	2.9	2.3	1.7	1.7
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

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1060.3	1053.9	1059.7	1067.3	1067.3	1066.2	1065.0	1067.3	1073.1	1070.8	1063.8
5°	1058.6	1052.2	1057.4	1065.0	1065.0	1063.2	1062.1	1063.8	1070.2	1067.3	1060.9
7.5°	1055.1	1049.3	1052.8	1059.7	1059.7	1058.0	1056.8	1059.2	1064.4	1061.5	1054.5
10°	1048.7	1042.3	1046.4	1052.8	1052.2	1051.0	1049.3	1052.2	1056.8	1052.8	1044.6
12.5°	1040.5	1034.1	1037.6	1043.4	1042.9	1040.5	1039.4	1041.1	1045.2	1042.9	1034.1
15°	1029.5	1023.1	1026.0	1031.8	1030.1	1028.3	1026.0	1026.6	1031.8	1027.7	1018.4
17.5°	1016.1	1009.1	1011.4	1016.7	1014.9	1013.2	1010.3	1010.8	1016.7	1010.8	1000.9
20°	999.8	992.2	994.0	1000.4	997.4	994.5	991.6	991.6	997.4	991.0	980.0
22.5°	982.3	974.7	975.9	980.6	978.2	973.0	970.1	971.8	974.7	966.6	954.9
25°	960.8	950.9	952.6	957.3	955.5	948.5	945.6	946.8	945.6	939.2	927.0
27.5°	935.7	925.2	926.4	929.3	927.0	920.6	917.1	917.7	915.3	907.2	893.2
30°	904.3	899.0	898.5	900.2	896.7	890.3	886.2	885.1	884.5	872.8	856.0
32.5°	872.3	867.6	864.7	867.0	862.9	856.5	849.5	849.5	843.7	832.7	818.1
35°	839.6	832.1	829.2	830.9	826.3	818.1	812.3	809.4	800.6	786.7	770.9
37.5°	797.7	792.5	789.0	790.7	785.5	779.7	768.6	765.7	756.4	737.2	717.4
40°	752.3	748.2	744.7	746.5	740.7	731.9	722.0	717.4	706.9	685.3	669.6
42.5°	703.4	701.6	697.6	704.0	692.3	683.6	673.7	666.1	655.6	632.4	614.3
45°	651.6	655.6	646.3	648.1	640.5	632.9	622.5	611.4	600.9	578.8	558.4
47.5°	596.8	599.7	593.3	594.5	586.4	579.4	570.1	556.1	544.4	525.2	507.2
50°	540.4	539.2	539.2	538.0	531.6	522.9	513.6	500.8	489.1	471.6	456.5
52.5°	480.4	482.7	483.9	486.8	478.6	473.4	458.8	447.8	439.0	421.0	408.2
55°	422.7	430.9	428.6	429.7	420.4	416.3	404.7	396.0	383.1	372.7	364.5
57.5°	370.3	372.1	373.2	375.0	370.9	362.8	353.4	346.5	336.6	327.8	322.0
60°	319.7	319.7	320.3	323.2	319.1	312.1	305.1	299.9	292.9	287.6	284.2
62.5°	271.9	276.0	276.6	274.3	269.0	265.5	260.9	258.0	253.3	251.5	250.4
65°	227.7	227.7	227.7	228.8	225.9	223.6	220.7	220.1	221.8	219.5	220.7
67.5°	190.4	188.7	187.5	188.1	186.9	185.7	185.2	186.9	190.4	190.4	193.3
70°	158.4	154.9	152.6	152.6	152.6	153.1	154.9	158.4	164.2	166.5	170.6
72.5°	132.2	124.6	121.1	121.1	121.7	124.0	129.3	135.7	140.9	145.6	150.8
75°	107.1	99.6	94.3	93.7	94.9	98.4	106.0	111.8	120.5	126.9	133.3
77.5°	86.8	77.4	71.0	70.5	72.2	77.4	86.8	94.3	104.2	111.2	118.2
80°	69.3	58.8	53.6	50.1	53.0	59.4	69.9	79.2	88.5	97.8	106.6
82.5°	55.3	45.4	37.3	33.8	37.3	46.0	55.9	67.0	76.3	86.2	94.9
85°	43.7	33.2	23.9	20.4	24.5	33.8	44.8	55.9	66.4	76.3	85.0
87.5°	34.4	23.9	14.6	9.9	15.1	25.0	35.5	46.6	57.6	67.5	76.3
90°	26.8	16.9	8.2	1.2	8.7	18.1	28.5	39.0	50.1	60.0	68.7
92.5°	22.7	12.8	4.7	0.0	5.2	13.4	23.3	33.8	43.7	53.6	62.3
95°	19.2	10.5	3.5	0.0	3.5	10.5	19.2	28.5	38.4	48.3	57.1
97.5°	16.3	8.2	2.3	0.0	2.3	8.2	15.7	25.0	33.8	43.1	51.2
100°	14.0	7.0	1.7	0.0	1.7	6.4	13.4	21.5	30.3	39.0	46.6
102.5°	12.2	5.8	1.2	0.0	1.2	5.2	11.1	18.6	26.2	34.4	41.9
105°	10.5	4.7	1.2	0.0	0.6	4.1	9.3	16.3	23.3	30.9	37.8
107.5°	9.3	4.1	1.2	0.0	0.6	3.5	8.2	14.0	21.0	27.4	33.8
110°	8.2	3.5	1.2	0.0	0.6	2.3	7.0	12.2	18.1	24.5	30.9

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.0	2.9	0.6	0.0	0.0	1.7	5.8	10.5	15.7	22.1	27.4
115°	6.4	2.9	0.6	0.0	0.0	1.2	4.7	9.3	14.0	19.8	24.5
117.5°	5.8	2.3	0.6	0.0	0.6	1.2	4.1	8.2	12.2	16.9	22.1
120°	5.2	2.3	0.6	0.0	0.6	0.6	2.9	7.0	10.5	15.1	19.2
122.5°	4.7	2.3	0.6	0.0	0.6	0.6	2.3	5.8	9.3	13.4	16.9
125°	4.1	1.7	1.2	0.6	0.6	0.6	1.7	4.7	8.2	11.1	15.1
127.5°	4.1	1.7	1.2	0.6	0.6	0.6	1.2	4.1	6.4	9.9	13.4
130°	3.5	1.7	1.2	0.6	0.6	0.6	0.6	2.9	5.8	8.2	11.1
132.5°	2.9	1.7	1.2	0.6	0.6	0.6	0.6	1.7	4.1	7.0	9.3
135°	2.9	1.7	1.2	0.6	0.6	0.6	0.6	1.2	2.9	5.2	7.6
137.5°	2.3	1.2	1.2	0.6	0.6	0.6	0.6	0.6	2.3	4.1	5.8
140°	2.3	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.7	2.9	4.7
142.5°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2	2.3	3.5
145°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	2.3
147.5°	1.7	1.7	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7
150°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
152.5°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
155°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
157.5°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
160°	1.7	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: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1061.5	1050.4	1056.3	1054.5	1056.8	1061.5	1060.9	1059.7	1059.7	1058.0	1055.7
5°	1058.0	1047.5	1052.8	1049.9	1052.8	1056.8	1056.3	1054.5	1055.7	1052.8	1049.9
7.5°	1051.0	1041.7	1046.4	1044.0	1046.4	1050.4	1048.7	1048.1	1049.3	1044.6	1042.9
10°	1042.9	1032.4	1037.6	1034.7	1037.6	1040.5	1039.4	1037.0	1039.4	1034.7	1033.0
12.5°	1030.1	1021.3	1024.8	1023.6	1025.4	1028.3	1026.0	1024.2	1025.4	1021.3	1017.8
15°	1016.1	1007.3	1010.3	1008.5	1009.7	1013.2	1009.1	1008.5	1007.3	1003.3	1002.1
17.5°	998.0	989.9	992.8	989.9	991.6	990.5	989.9	987.0	987.0	982.3	978.8
20°	975.9	968.9	967.2	964.8	967.2	964.8	961.3	959.0	958.4	953.8	950.9
22.5°	950.3	942.1	943.3	936.9	937.5	934.0	928.2	925.8	923.5	918.3	914.2
25°	919.4	911.3	905.4	901.4	896.1	895.5	888.0	882.2	881.6	875.2	874.6
27.5°	884.5	875.2	870.5	860.6	854.2	849.0	842.6	836.7	833.8	826.8	822.2
30°	844.3	833.8	822.2	815.2	805.3	801.2	790.2	783.2	780.8	773.3	769.8
32.5°	798.9	787.8	778.5	765.1	754.1	748.2	737.2	730.2	727.3	719.1	714.5
35°	749.4	737.2	726.1	713.3	704.6	694.7	681.3	674.3	667.9	665.0	661.5
37.5°	697.6	684.2	671.4	658.6	651.0	639.3	627.7	623.0	615.5	612.6	609.1
40°	644.0	630.6	618.4	606.2	597.4	586.9	576.5	574.7	566.6	563.6	561.3
42.5°	591.0	577.0	563.1	554.3	547.9	537.4	530.5	528.7	521.7	520.0	520.0
45°	543.3	525.8	514.2	506.6	501.3	492.6	486.8	485.6	479.8	478.6	478.6
47.5°	492.0	475.7	467.0	462.3	457.7	451.3	447.8	447.8	442.0	440.8	440.2
50°	444.3	429.1	422.7	418.1	417.5	412.8	409.9	408.8	408.8	404.7	405.3
52.5°	398.9	391.3	386.1	383.1	379.6	376.7	374.4	374.4	372.7	369.7	370.9
55°	356.9	348.2	348.8	346.5	344.7	343.0	343.5	340.1	339.5	337.1	338.9
57.5°	315.0	315.0	313.8	312.1	309.2	310.4	310.4	310.4	307.4	305.7	307.4
60°	279.5	281.2	278.3	280.1	278.9	279.5	278.3	278.3	276.6	276.0	276.6
62.5°	248.1	251.0	249.8	252.1	251.0	251.5	252.7	250.4	249.2	248.1	249.2
65°	220.1	223.6	223.0	224.8	225.3	225.9	226.5	225.3	224.2	223.0	222.4
67.5°	195.6	199.1	201.5	202.1	202.6	204.4	203.8	202.6	201.5	199.7	199.1
70°	173.5	178.2	181.1	182.3	184.6	183.4	183.4	182.8	181.7	179.9	179.3
72.5°	154.9	160.1	163.0	164.2	166.5	166.5	165.9	165.4	164.2	162.5	161.9
75°	138.6	143.2	147.3	149.6	151.4	151.4	150.8	150.2	149.1	147.9	147.3
77.5°	125.8	129.8	133.3	136.3	137.4	138.0	137.4	136.3	136.3	135.7	135.1
80°	113.0	117.6	121.1	124.0	125.8	125.8	125.2	125.8	124.6	124.0	123.4
82.5°	101.9	107.1	111.2	114.1	115.3	115.9	115.3	115.9	114.7	114.7	114.7
85°	92.0	97.2	101.9	104.2	106.0	106.6	106.6	106.6	106.0	106.0	106.0
87.5°	83.8	89.1	93.7	96.1	97.8	98.4	98.4	99.0	97.8	97.8	97.8
90°	76.3	81.5	86.2	88.5	90.3	91.4	91.4	92.0	91.4	90.8	90.8
92.5°	69.3	75.1	79.8	82.1	83.8	85.6	85.6	86.2	85.0	85.0	85.0
95°	63.5	69.3	73.4	76.3	78.0	79.2	79.8	79.8	79.2	79.2	79.2
97.5°	58.2	63.5	67.5	70.5	72.2	72.8	73.4	73.9	73.4	73.4	73.4
100°	53.0	58.2	62.3	64.6	67.0	67.5	68.1	68.7	68.7	68.1	68.1
102.5°	48.3	53.6	57.1	60.0	61.7	62.9	63.5	63.5	63.5	63.5	63.5
105°	43.7	48.9	52.4	55.3	57.1	58.2	58.8	59.4	59.4	58.8	58.8
107.5°	39.6	44.3	48.3	50.7	53.0	54.2	54.7	54.7	55.3	54.7	54.7
110°	35.5	40.8	44.3	46.6	48.9	50.1	50.7	51.2	51.2	51.2	51.2

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	32.6	36.7	40.2	42.5	44.8	46.0	46.6	47.2	47.7	47.2	47.2
115°	29.1	33.2	36.7	39.0	40.8	41.9	43.1	43.7	43.7	44.3	43.7
117.5°	26.2	29.7	33.2	35.5	37.3	39.0	39.6	40.2	40.8	40.2	40.2
120°	23.3	26.8	29.7	32.0	33.8	35.5	36.1	36.7	37.3	36.7	36.7
122.5°	21.0	23.9	26.8	29.1	30.9	32.0	33.2	33.2	33.8	33.8	33.8
125°	18.6	21.5	23.9	26.2	27.9	29.1	29.7	30.3	30.3	30.9	30.9
127.5°	16.3	18.6	21.5	23.3	25.0	26.2	26.8	27.4	27.4	27.9	27.9
130°	14.0	16.3	18.6	20.4	22.1	23.3	23.9	24.5	25.0	25.0	25.0
132.5°	12.2	14.6	16.3	18.1	19.2	20.4	21.5	22.1	22.1	22.1	22.1
135°	9.9	12.2	14.0	15.7	16.9	18.1	18.6	19.8	19.8	19.8	19.8
137.5°	8.2	10.5	12.2	13.4	14.6	15.7	16.3	16.9	17.5	17.5	17.5
140°	6.4	8.2	9.9	11.6	12.8	13.4	14.6	14.6	15.1	15.1	15.1
142.5°	4.7	6.4	7.6	9.3	10.5	11.6	12.2	12.8	12.8	12.8	12.8
145°	3.5	4.7	5.8	7.0	8.7	9.3	9.9	10.5	11.1	11.1	11.1
147.5°	2.3	3.5	4.1	5.2	6.4	7.6	8.2	8.7	9.3	9.3	9.3
150°	1.7	2.3	3.5	4.1	4.7	5.8	7.0	7.0	7.6	7.6	7.0
152.5°	1.2	1.7	2.3	2.9	3.5	4.1	5.2	5.2	5.8	5.8	5.8
155°	1.2	1.2	1.2	1.7	2.3	2.9	3.5	4.1	4.1	4.1	4.1
157.5°	1.2	1.2	1.2	1.2	1.2	1.7	2.3	2.9	2.9	2.9	2.9
160°	1.2	1.2	0.6	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7
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

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1057.4	1058.6	1058.6	1057.4	1056.8	1059.2	1056.3	1045.2	1048.7	1049.9	1053.3
5°	1052.2	1053.3	1053.3	1053.3	1052.2	1054.5	1051.6	1040.5	1044.6	1046.4	1048.7
7.5°	1044.6	1045.2	1046.4	1045.8	1044.6	1048.1	1045.2	1034.1	1037.0	1040.0	1042.9
10°	1034.7	1034.7	1035.3	1036.5	1035.3	1038.2	1035.3	1025.4	1028.3	1030.1	1033.5
12.5°	1021.3	1022.5	1023.1	1022.5	1021.9	1024.2	1023.1	1013.7	1014.9	1018.4	1021.9
15°	1003.3	1003.3	1006.2	1005.0	1005.0	1007.3	1008.5	998.0	999.8	1005.0	1008.5
17.5°	981.1	981.7	984.1	985.2	984.6	988.7	989.3	981.1	980.6	987.0	990.5
20°	952.6	953.8	956.7	959.0	959.0	963.7	965.4	960.2	960.8	967.7	968.9
22.5°	917.7	917.7	922.9	926.4	929.3	932.2	937.5	932.8	932.8	942.1	947.4
25°	874.6	878.7	880.4	887.4	891.5	899.6	904.3	904.9	905.4	914.2	917.7
27.5°	826.8	828.0	833.2	841.4	846.1	853.6	862.4	864.1	867.0	878.7	883.9
30°	772.7	776.2	778.5	790.2	796.6	806.5	817.5	821.6	823.9	839.6	846.1
32.5°	717.4	718.5	728.4	734.8	742.4	752.9	765.7	773.3	777.9	794.2	803.5
35°	662.1	664.4	672.5	680.7	688.3	698.7	712.1	722.6	730.8	745.3	757.5
37.5°	611.4	617.2	619.0	627.1	632.9	643.4	652.7	667.9	676.0	691.2	706.9
40°	566.0	567.7	568.9	577.0	581.1	591.0	604.4	614.3	625.4	636.4	655.1
42.5°	521.1	522.3	524.1	528.7	533.4	540.4	550.3	560.2	571.8	588.1	600.3
45°	479.8	481.0	482.1	485.0	489.1	495.5	501.9	508.9	520.6	534.5	547.3
47.5°	441.4	443.7	443.7	444.3	447.2	452.4	457.1	465.8	472.2	479.8	494.4
50°	404.7	406.4	407.0	407.0	408.8	412.3	413.4	419.2	425.1	432.1	442.5
52.5°	370.3	370.3	369.7	372.1	372.1	374.4	375.0	378.5	382.6	390.1	394.8
55°	337.7	337.7	339.5	338.3	338.3	339.5	338.9	339.5	343.0	347.6	351.7
57.5°	306.3	305.7	307.4	306.3	305.7	306.9	308.0	305.7	306.3	310.9	310.9
60°	274.8	275.4	277.2	276.0	276.0	276.0	274.8	273.7	272.5	275.4	276.6
62.5°	249.8	248.1	249.8	248.1	249.2	248.6	247.5	245.1	245.7	244.6	243.4
65°	223.6	223.6	224.2	222.4	223.6	223.6	221.8	221.3	217.8	216.6	213.7
67.5°	200.9	200.9	201.5	200.3	200.3	200.9	199.1	197.4	193.9	192.2	188.1
70°	181.1	181.1	181.1	180.5	180.5	180.5	179.3	177.0	173.5	170.6	165.4
72.5°	163.0	163.6	163.0	163.0	164.8	163.0	161.3	159.0	156.1	150.2	145.6
75°	148.5	149.1	148.5	148.5	148.5	147.9	147.3	143.8	140.3	135.7	128.7
77.5°	135.7	135.7	136.3	135.7	135.7	135.1	133.3	130.4	126.4	122.3	114.1
80°	123.4	124.0	124.6	125.2	124.0	123.4	121.7	119.4	114.1	109.5	101.3
82.5°	114.7	114.1	114.7	115.3	114.1	113.5	111.8	108.9	104.8	98.4	90.3
85°	106.0	105.4	105.4	106.0	105.4	104.2	102.5	99.6	95.5	89.1	80.9
87.5°	97.2	97.8	98.4	97.8	97.2	96.1	94.3	91.4	86.8	81.5	72.8
90°	90.8	90.8	90.8	90.8	90.3	89.1	87.3	83.8	79.8	73.4	65.8
92.5°	85.0	85.0	85.0	85.0	84.4	82.7	80.9	78.0	73.4	67.0	60.0
95°	79.2	79.8	79.2	79.2	78.0	77.4	74.5	71.6	67.5	61.1	53.6
97.5°	72.8	73.4	72.8	72.8	72.2	71.0	69.3	65.8	61.7	55.9	48.9
100°	68.1	68.1	67.5	67.5	67.0	65.8	63.5	60.6	56.5	50.7	43.7
102.5°	62.9	63.5	62.9	62.9	61.7	60.6	58.8	55.9	51.8	46.0	39.6
105°	58.8	58.8	58.2	58.2	57.1	55.9	54.2	50.7	47.2	41.9	35.5
107.5°	54.7	54.7	54.2	54.2	53.0	51.8	49.5	46.6	43.1	37.8	32.0
110°	50.7	50.7	50.7	50.1	48.9	47.2	45.4	42.5	39.0	34.4	28.5

TEST NUMBER: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	47.7	47.2	46.6	46.0	44.8	43.7	41.3	38.4	34.9	30.9	25.6
115°	43.7	43.7	43.1	42.5	41.3	39.6	37.8	35.5	32.0	27.4	22.7
117.5°	40.2	40.2	39.6	39.0	37.8	36.1	34.4	32.0	28.5	24.5	20.4
120°	36.7	36.7	36.1	35.5	34.4	32.6	31.4	28.5	25.6	21.5	18.1
122.5°	33.8	33.2	33.2	32.0	31.4	29.7	27.9	25.6	22.7	19.2	15.7
125°	30.3	30.3	29.7	29.1	28.5	26.8	25.0	22.7	19.8	16.9	14.0
127.5°	27.4	27.4	26.8	26.2	25.6	23.9	22.1	20.4	17.5	14.6	11.6
130°	24.5	24.5	23.9	23.3	22.7	21.0	19.8	17.5	15.1	12.8	9.9
132.5°	22.1	22.1	21.5	21.0	19.8	18.6	17.5	15.1	13.4	11.1	8.7
135°	19.8	19.2	19.2	18.6	17.5	16.3	15.1	13.4	11.1	9.3	7.0
137.5°	17.5	16.9	16.3	15.7	15.1	14.0	12.8	11.6	9.9	7.6	5.8
140°	15.1	14.6	14.6	14.0	12.8	12.2	11.1	9.3	8.2	6.4	4.7
142.5°	12.8	12.8	12.2	11.6	11.1	10.5	9.3	8.2	6.4	5.2	3.5
145°	11.1	10.5	10.5	9.9	9.3	8.2	7.6	6.4	5.2	4.1	2.9
147.5°	8.7	8.7	8.7	8.2	7.6	7.0	6.4	5.2	4.1	2.9	1.7
150°	7.0	7.0	7.0	6.4	5.8	5.2	4.7	4.1	2.9	1.7	1.2
152.5°	5.8	5.8	5.2	5.2	4.7	4.1	3.5	2.9	1.7	1.2	1.2
155°	4.1	4.1	4.1	3.5	3.5	2.9	2.3	1.7	1.2	1.2	1.2
157.5°	2.9	2.9	2.9	2.3	2.3	1.7	1.7	1.2	1.2	1.2	1.2
160°	1.7	1.7	1.7	1.7	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: P1212993

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1051.6	1051.0	1055.7	1055.7	1050.4	1058.6	1067.3
5°	1048.1	1047.5	1052.2	1052.2	1047.5	1055.7	1065.0
7.5°	1041.1	1041.7	1046.4	1047.5	1041.7	1049.3	1059.2
10°	1033.5	1033.0	1038.2	1039.4	1034.7	1041.7	1051.0
12.5°	1021.3	1021.3	1026.6	1028.3	1023.6	1031.8	1040.5
15°	1008.5	1008.5	1012.0	1014.9	1010.8	1018.4	1027.1
17.5°	992.2	991.6	995.1	998.6	994.5	1002.7	1012.0
20°	971.2	971.2	975.3	979.4	976.5	984.1	994.5
22.5°	949.1	946.8	953.8	956.7	954.9	962.5	973.0
25°	921.2	920.6	927.6	931.6	929.3	937.5	946.8
27.5°	890.9	890.3	897.3	902.5	901.4	908.9	919.4
30°	854.2	857.1	863.5	872.3	869.3	877.5	888.6
32.5°	815.8	818.7	826.3	835.6	836.2	842.6	853.6
35°	769.8	777.3	782.6	794.8	797.1	803.5	815.2
37.5°	721.4	730.2	741.2	750.6	755.2	760.5	773.9
40°	667.3	680.1	692.3	703.4	709.2	714.5	727.3
42.5°	618.4	628.3	639.9	651.0	661.5	666.1	679.5
45°	563.1	574.7	585.2	598.6	609.1	614.3	627.7
47.5°	508.9	520.6	534.5	543.8	554.9	560.2	573.0
50°	457.1	467.6	479.2	490.3	499.6	504.3	515.3
52.5°	405.8	416.9	428.0	435.0	444.9	448.4	457.7
55°	360.4	368.0	377.9	382.0	391.9	394.2	400.6
57.5°	316.8	322.0	325.5	332.5	339.5	344.7	352.3
60°	277.2	279.5	281.8	285.9	291.7	293.5	296.4
62.5°	241.6	241.1	245.7	246.9	247.5	253.3	250.4
65°	210.2	210.8	206.7	205.0	207.3	209.0	207.9
67.5°	184.0	180.5	177.0	172.9	169.4	171.2	169.4
70°	158.4	155.5	149.6	143.8	141.5	138.0	136.3
72.5°	138.0	131.0	125.2	117.6	113.5	109.5	106.6
75°	122.3	112.4	104.2	96.1	90.3	84.4	83.3
77.5°	106.0	96.7	87.3	78.6	69.9	63.5	61.1
80°	93.2	84.4	73.4	62.9	53.6	45.4	42.5
82.5°	81.5	72.2	61.1	50.1	39.6	30.9	27.4
85°	71.6	61.7	50.7	39.6	29.1	19.8	15.1
87.5°	64.1	53.0	41.9	31.4	20.4	11.1	5.8
90°	57.1	46.6	36.1	25.0	14.6	5.8	0.0
92.5°	50.7	40.8	30.3	20.4	11.1	3.5	0.6
95°	44.8	36.1	25.6	16.3	8.2	2.3	0.6
97.5°	40.2	31.4	22.1	13.4	6.4	1.7	0.6
100°	36.1	27.4	19.2	11.1	5.2	1.2	0.6
102.5°	32.0	24.5	16.3	9.3	4.1	0.6	0.6
105°	28.5	21.5	14.0	8.2	3.5	0.6	0.6
107.5°	25.6	19.2	12.2	7.0	2.3	0.6	0.6
110°	22.7	16.3	10.5	5.8	1.7	0.6	0.6



TEST NUMBER: P1212993

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	20.4	14.6	9.3	4.7	1.2	0.6	0.6
115°	18.1	12.8	8.2	4.1	1.2	0.6	0.6
117.5°	15.7	11.1	7.0	2.9	0.6	0.6	0.6
120°	14.0	9.9	5.8	2.3	0.6	0.6	0.6
122.5°	12.2	8.2	4.7	1.7	0.6	0.6	0.6
125°	10.5	7.0	4.1	1.2	0.6	0.6	0.6
127.5°	8.7	5.8	2.9	1.2	0.6	0.6	0.6
130°	7.6	4.7	2.3	0.6	0.6	0.6	0.6
132.5°	6.4	3.5	1.7	0.6	0.6	0.6	0.6
135°	5.2	2.9	1.2	0.6	0.6	0.6	0.6
137.5°	4.1	2.3	1.2	0.6	0.6	0.6	0.6
140°	2.9	1.7	0.6	0.6	0.6	0.6	0.6
142.5°	2.3	1.2	0.6	0.6	0.6	0.6	0.6
145°	1.7	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)