

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: P1213402

Luminaire Tested: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213402
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: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

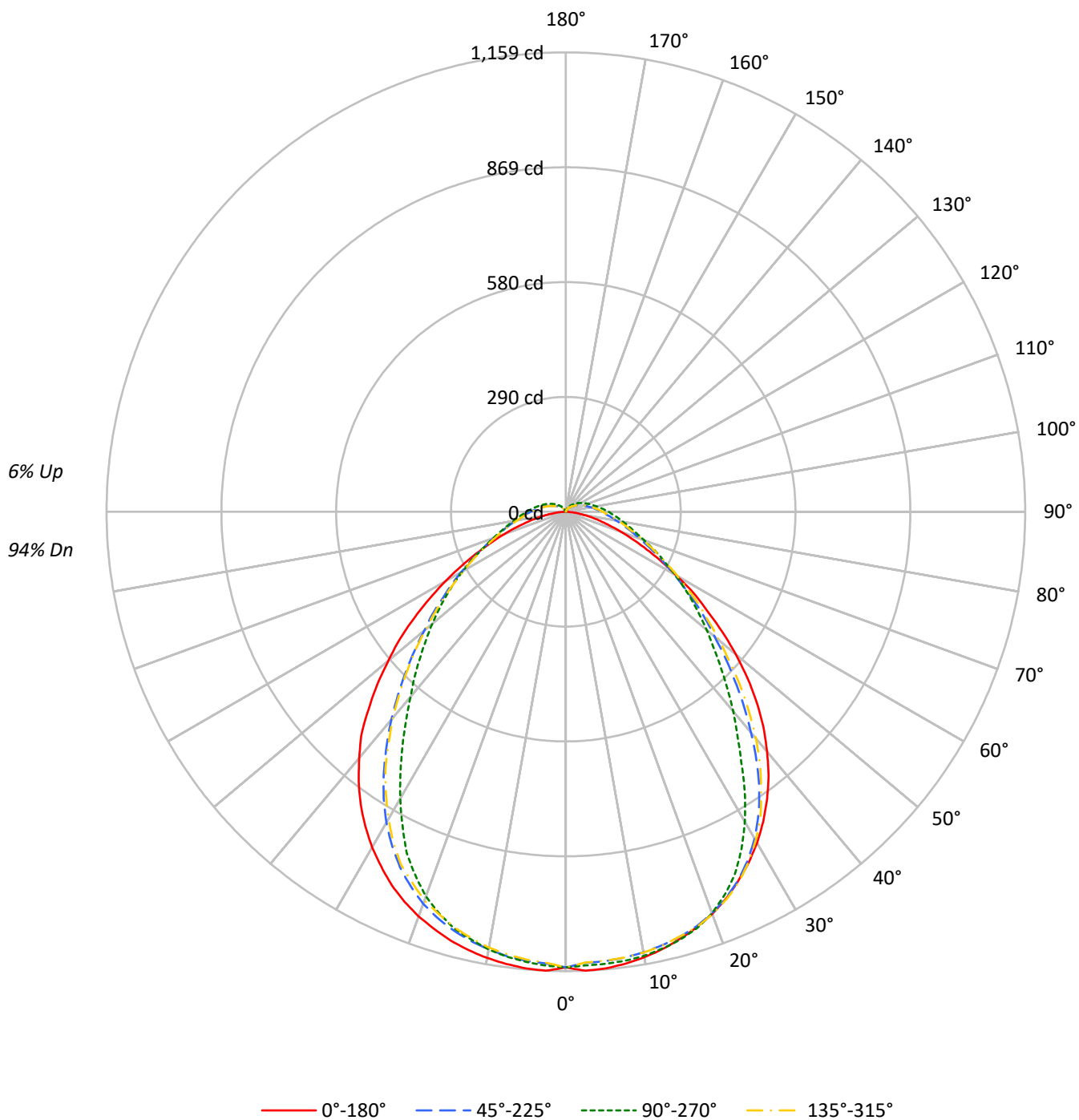
Lumens per Lamp: N/A
Luminaire Lumens: 2909.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
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°	9289	9289	9289	9289
5°	9355	8993	9355	8954
10°	9313	8755	9329	8632
15°	9253	8492	9296	8271
20°	9182	8156	9236	7812
25°	9035	7657	9135	7206
30°	8843	6924	8960	6411
35°	8546	6026	8710	5611
40°	8118	5270	8333	4890
45°	7553	4581	7798	4318
50°	6783	4026	7081	3823
55°	5867	3555	6293	3375
60°	4934	3121	5380	2941
65°	4045	2760	4453	2558
70°	3220	2448	3605	2265
75°	2528	2261	2846	2081
80°	1826	2182	2150	1993
85°	1120	2194	1510	2017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 7798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.7
10°-20°	312.5	10.7
20°-30°	463.1	15.9
30°-40°	514.5	17.7
40°-50°	466.4	16.0
50°-60°	361.4	12.4
60°-70°	245.4	8.4
70°-80°	156.1	5.4
80°-90°	99.8	3.4
90°-100°	67.3	2.3
100°-110°	46.1	1.6
110°-120°	30.8	1.1
120°-130°	19.1	0.7
130°-140°	10.6	0.4
140°-150°	5.0	0.2
150°-160°	1.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	884.6	30.4
0°-40°	1399.1	48.1
0°-60°	2226.9	76.6
0°-90°	2728.2	93.8
90°-120°	144.2	5.0
90°-150°	178.8	6.1
90°-180°	181.0	6.2
0°-180°	2909.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1150	1150	1150	1150	1150	
5°	1156	1145	1156	1140	1156	110
15°	1115	1117	1120	1088	1115	315
25°	1028	1009	1040	950	1028	473
35°	885	771	902	718	885	552
45°	682	551	704	520	682	523
55°	435	388	467	368	435	392
65°	226	260	248	242	226	226
75°	90	174	102	160	90	97
85°	16	125	22	115	16	20
90°	0	108	1	99	0	1
95°	1	92	0	86	1	0
105°	1	68	0	64	1	1
115°	1	51	0	47	1	1
125°	1	38	1	34	1	1
135°	1	27	1	22	1	0
145°	1	17	1	12	1	0
155°	1	10	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°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1159.0	1157.7	1156.4	1154.5	1156.4	1161.5	1158.3	1151.4	1150.1	1138.7	1143.8
5°	1156.4	1154.5	1153.3	1151.4	1153.9	1160.2	1157.1	1150.7	1148.8	1138.1	1143.8
7.5°	1150.1	1148.8	1146.9	1146.9	1149.5	1155.8	1153.3	1146.3	1145.0	1134.3	1140.6
10°	1141.2	1140.6	1139.4	1139.4	1141.9	1149.5	1146.3	1140.0	1138.7	1128.6	1135.6
12.5°	1129.9	1130.5	1128.6	1128.6	1132.4	1140.0	1137.5	1130.5	1129.2	1120.4	1127.3
15°	1115.3	1116.0	1114.7	1115.3	1119.1	1128.0	1124.8	1118.5	1117.2	1110.3	1116.0
17.5°	1098.9	1099.5	1099.5	1098.9	1103.3	1112.2	1109.6	1103.9	1102.0	1096.4	1103.3
20°	1079.9	1079.9	1079.9	1079.9	1085.0	1093.8	1090.7	1086.2	1082.4	1078.0	1083.7
22.5°	1056.5	1055.9	1056.5	1058.4	1063.5	1070.4	1068.5	1063.5	1057.8	1055.3	1059.7
25°	1028.1	1030.0	1030.6	1032.5	1038.8	1044.5	1042.6	1037.6	1028.7	1026.8	1028.1
27.5°	998.4	999.6	1001.5	1000.9	1009.7	1015.4	1011.6	1007.2	994.6	992.7	991.4
30°	964.8	966.7	968.0	967.4	974.3	980.7	976.9	971.2	954.1	952.8	942.7
32.5°	926.9	928.8	930.1	930.1	940.2	942.7	935.8	927.5	909.2	904.8	895.9
35°	885.2	887.1	887.7	887.7	897.8	897.2	888.3	877.0	856.7	851.0	835.9
37.5°	840.3	841.6	842.2	846.0	850.4	846.6	835.2	820.7	805.5	789.7	773.3
40°	789.7	791.6	792.9	795.4	799.8	795.4	779.0	761.3	744.8	727.1	710.7
42.5°	737.9	743.5	742.3	741.7	744.2	732.2	719.5	699.3	682.9	664.5	648.1
45°	681.6	681.0	684.1	685.4	684.7	674.6	656.9	638.6	622.2	603.2	589.3
47.5°	622.2	621.5	624.1	625.3	621.5	610.8	596.9	576.0	562.1	545.6	534.9
50°	559.6	559.6	563.4	559.6	557.7	546.9	535.5	514.7	503.9	489.4	483.1
52.5°	497.0	502.7	498.9	497.6	495.7	485.0	476.1	459.0	450.2	443.9	436.3
55°	435.0	441.3	438.8	436.9	436.3	427.4	419.2	406.5	400.9	396.4	392.0
57.5°	382.5	381.9	380.6	378.7	379.4	372.4	364.2	357.2	354.7	352.8	354.1
60°	321.8	326.9	325.0	325.6	326.3	325.0	318.0	313.6	314.2	314.9	316.8
62.5°	271.9	276.3	279.5	276.9	278.2	280.1	276.3	275.0	277.6	280.1	282.6
65°	225.7	230.1	233.3	232.7	236.5	240.3	239.6	240.9	246.6	249.7	252.9
67.5°	184.0	188.4	192.8	193.5	199.2	204.9	207.4	211.8	218.1	222.6	226.4
70°	148.0	151.7	156.8	160.0	167.6	175.1	179.6	188.4	192.2	198.5	201.1
72.5°	115.7	118.9	125.8	133.4	139.7	149.2	158.1	165.7	171.3	178.3	181.5
75°	90.4	91.7	99.3	108.1	117.0	127.7	137.2	145.4	153.0	160.0	165.0
77.5°	66.4	68.3	75.2	87.3	97.4	108.8	119.5	128.4	136.6	143.5	150.5
80°	46.2	49.9	57.5	69.5	80.9	93.6	103.7	113.8	122.7	129.6	136.6
82.5°	29.7	32.9	43.6	55.6	67.7	80.3	91.0	101.2	110.6	118.2	124.6
85°	16.4	20.9	31.6	44.3	56.3	68.9	80.3	90.4	99.9	106.9	113.2
87.5°	6.3	12.6	22.8	34.8	46.8	58.8	70.8	80.3	89.8	97.4	103.1
90°	0.0	7.6	17.1	29.1	41.1	53.1	64.5	74.6	83.5	90.4	96.7
92.5°	0.6	5.1	13.3	23.4	34.8	46.2	56.9	67.0	75.9	82.8	88.5
95°	0.6	3.8	10.7	20.2	30.3	41.1	51.2	60.7	68.9	75.9	81.6
97.5°	0.6	2.5	8.9	17.7	26.6	37.3	46.8	55.6	63.2	70.2	74.6
100°	0.6	2.5	7.6	15.2	24.0	33.5	42.4	51.2	58.2	63.9	68.9
102.5°	0.6	1.9	6.3	13.3	21.5	29.7	38.6	46.8	53.1	58.8	63.9
105°	0.6	1.9	5.7	11.4	19.0	27.2	34.8	42.4	49.3	54.4	58.8
107.5°	0.6	1.3	5.1	9.5	16.4	24.7	32.2	38.6	44.9	49.9	54.4
110°	0.6	1.3	4.4	8.9	14.5	22.1	29.1	35.4	41.1	46.2	49.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.3	3.8	8.2	13.3	19.6	26.6	32.2	37.9	42.4	46.2
115°	0.6	1.3	3.8	7.6	12.0	17.1	23.4	29.7	34.1	39.2	42.4
117.5°	0.6	1.3	3.2	6.3	11.4	15.8	21.5	26.6	31.6	36.0	39.2
120°	0.6	1.3	3.2	5.7	10.1	14.5	19.0	24.0	29.1	32.2	35.4
122.5°	0.6	1.3	2.5	5.7	8.9	13.3	17.1	21.5	25.9	29.7	32.9
125°	0.6	1.3	2.5	5.1	8.2	12.0	15.8	19.0	23.4	26.6	29.7
127.5°	0.6	1.3	2.5	4.4	7.6	10.7	14.5	17.7	20.9	24.0	26.6
130°	0.6	1.3	1.9	3.8	7.0	9.5	12.6	16.4	19.0	21.5	24.0
132.5°	0.6	1.3	1.9	3.8	5.7	8.2	11.4	14.5	17.1	19.6	21.5
135°	0.6	1.3	1.9	3.2	5.1	7.6	9.5	12.6	15.2	17.7	19.6
137.5°	0.6	1.3	1.9	3.2	4.4	6.3	8.2	10.7	13.3	15.2	17.7
140°	0.6	1.3	1.9	2.5	3.8	5.7	7.6	8.9	11.4	13.3	15.2
142.5°	0.6	1.3	1.9	2.5	3.8	5.1	6.3	7.6	9.5	11.4	13.3
145°	0.6	1.3	1.9	2.5	3.2	4.4	5.7	7.0	7.6	9.5	10.7
147.5°	0.6	1.3	1.9	2.5	2.5	3.8	5.1	5.7	7.0	7.6	8.9
150°	0.6	1.3	1.9	1.9	2.5	3.2	4.4	5.1	5.7	7.0	7.6
152.5°	0.6	1.3	1.9	1.9	2.5	3.2	3.8	4.4	5.1	5.7	6.3
155°	0.6	1.3	1.9	1.9	1.9	2.5	3.2	3.8	4.4	5.1	5.7
157.5°	1.3	1.3	1.3	1.9	1.9	2.5	2.5	3.2	3.8	3.8	4.4
160°	1.3	1.3	1.3	1.9	1.9	1.9	2.5	2.5	3.2	3.2	3.8
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1142.5	1144.4	1150.1	1150.1	1148.8	1147.6	1147.6	1145.7	1146.9	1149.5	1148.2
5°	1142.5	1144.4	1150.1	1150.1	1148.8	1147.6	1146.9	1145.0	1146.9	1149.5	1148.2
7.5°	1138.7	1141.2	1146.9	1146.9	1145.7	1145.0	1143.8	1142.5	1144.4	1146.9	1145.7
10°	1133.7	1136.2	1141.9	1141.9	1140.6	1140.6	1138.7	1137.5	1140.0	1141.9	1141.2
12.5°	1126.1	1129.2	1134.3	1133.7	1132.4	1133.0	1131.1	1128.6	1131.1	1133.0	1133.7
15°	1115.3	1119.1	1124.2	1122.9	1121.0	1122.3	1119.1	1117.2	1119.1	1122.9	1122.3
17.5°	1101.4	1103.9	1107.7	1107.7	1105.8	1104.6	1103.3	1101.4	1102.7	1105.2	1105.8
20°	1081.8	1085.0	1086.9	1085.0	1084.3	1082.4	1079.9	1078.0	1080.6	1084.3	1085.0
22.5°	1055.9	1056.5	1060.9	1056.5	1053.4	1052.7	1050.2	1046.4	1050.2	1053.4	1054.0
25°	1023.6	1026.8	1024.9	1017.3	1017.3	1012.3	1011.0	1009.1	1009.7	1015.4	1018.0
27.5°	982.5	983.8	978.8	972.4	966.7	963.6	959.2	959.8	959.8	967.4	969.9
30°	937.7	930.7	926.3	916.2	911.7	904.1	902.9	902.9	901.6	905.4	916.8
32.5°	883.9	874.4	867.5	858.0	850.4	842.8	839.0	840.9	840.3	849.8	853.6
35°	825.1	819.4	804.9	792.9	788.4	777.1	777.1	771.4	775.2	785.9	790.3
37.5°	763.2	754.3	742.3	729.0	725.8	717.0	713.8	710.7	718.9	720.8	725.2
40°	699.9	691.7	680.3	667.7	667.7	656.9	656.9	656.9	657.6	661.4	669.6
42.5°	639.9	631.0	620.9	612.0	610.8	602.6	602.6	601.9	603.2	606.3	613.9
45°	581.7	574.7	564.0	559.6	560.2	551.3	553.2	551.3	553.9	557.0	559.6
47.5°	527.9	523.5	519.1	512.8	510.9	510.2	507.1	504.6	509.0	509.0	512.8
50°	478.0	475.5	472.9	469.1	469.8	467.2	463.5	463.5	466.6	467.2	469.8
52.5°	434.4	431.2	428.0	428.7	429.3	428.0	426.2	424.3	426.2	427.4	430.6
55°	390.7	388.2	391.4	390.1	391.4	390.1	388.8	387.6	390.7	388.8	392.0
57.5°	351.5	354.1	355.3	352.8	354.7	353.4	354.1	352.2	354.7	356.0	355.3
60°	315.5	319.3	317.4	318.0	320.6	319.3	316.8	318.7	321.2	321.8	321.2
62.5°	282.6	287.1	288.9	287.7	288.3	287.1	288.9	286.4	289.6	290.8	288.9
65°	252.9	258.0	259.2	259.2	259.2	258.0	259.9	260.5	261.8	261.8	260.5
67.5°	227.6	232.0	233.3	234.6	233.3	232.0	232.0	232.7	235.2	236.5	235.2
70°	204.9	209.3	209.9	209.9	210.5	211.8	209.3	210.5	212.4	213.1	212.4
72.5°	185.3	189.7	190.9	190.3	190.9	191.6	191.6	190.3	192.2	193.5	193.5
75°	169.4	172.0	173.2	173.2	173.9	174.5	174.5	173.9	175.1	175.8	176.4
77.5°	154.9	156.8	158.7	158.7	159.3	158.7	160.0	160.0	160.6	161.2	161.9
80°	140.4	142.9	144.2	144.8	146.1	146.7	146.7	146.7	147.3	148.0	148.0
82.5°	129.0	130.9	132.8	134.7	134.7	135.3	135.3	135.3	135.9	135.9	136.6
85°	117.6	120.1	122.0	123.3	123.9	124.6	124.6	125.2	125.2	125.2	125.8
87.5°	107.5	110.6	111.9	113.2	113.8	115.1	115.1	115.1	115.7	115.7	115.7
90°	100.5	103.7	105.0	106.2	106.9	107.5	107.5	108.1	108.1	108.8	108.8
92.5°	92.3	95.5	98.0	98.0	98.6	99.9	99.3	99.3	99.9	100.5	100.5
95°	86.0	88.5	90.4	91.0	91.7	91.7	91.7	92.3	91.7	92.3	92.3
97.5°	78.4	80.9	82.8	84.1	84.7	84.7	84.7	85.4	84.7	85.4	85.4
100°	72.1	74.6	76.5	77.1	78.4	78.4	78.4	78.4	78.4	78.4	79.0
102.5°	67.0	69.5	70.8	71.4	72.1	72.7	72.7	72.7	72.7	73.3	73.3
105°	62.0	64.5	65.8	66.4	67.0	67.7	67.7	67.7	68.3	68.3	67.7
107.5°	57.5	59.4	60.7	62.0	62.6	62.6	63.2	63.2	63.2	63.2	63.2
110°	53.1	55.0	56.9	58.2	58.2	58.8	58.8	59.4	59.4	58.8	59.4



TEST NUMBER: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	48.7	51.2	52.5	53.7	54.4	55.0	55.0	55.0	55.0	55.0	55.0
115°	44.9	47.4	48.7	49.9	50.6	51.2	51.2	51.2	51.2	51.2	51.2
117.5°	41.7	44.3	45.5	46.2	46.8	47.4	48.1	48.1	48.1	48.1	47.4
120°	38.6	40.5	41.7	43.0	43.6	44.3	44.3	44.3	44.3	44.3	44.3
122.5°	35.4	37.3	38.6	39.8	40.5	41.1	41.1	41.1	41.1	41.1	41.1
125°	32.2	34.1	35.4	36.7	37.3	37.9	37.9	37.9	37.9	37.9	37.9
127.5°	29.1	31.0	32.9	33.5	34.1	34.8	34.8	34.8	35.4	34.8	34.8
130°	25.9	27.8	29.7	30.3	31.0	31.6	32.2	32.2	32.2	32.2	31.6
132.5°	23.4	25.3	26.6	27.2	28.5	28.5	29.1	29.1	29.1	29.1	28.5
135°	21.5	22.8	24.0	24.7	25.9	25.9	25.9	26.6	26.6	25.9	25.3
137.5°	19.0	20.2	21.5	22.1	22.8	23.4	23.4	24.0	23.4	23.4	23.4
140°	17.7	18.3	19.6	20.2	20.9	20.9	20.9	21.5	21.5	20.9	20.9
142.5°	15.2	16.4	17.7	18.3	19.0	19.0	19.0	19.0	19.0	19.0	19.0
145°	12.6	14.5	15.2	16.4	16.4	17.1	17.1	17.1	17.1	17.1	16.4
147.5°	10.7	12.0	13.9	14.5	14.5	15.2	15.2	15.2	15.2	15.2	14.5
150°	8.2	9.5	11.4	12.6	12.6	13.3	13.3	13.3	13.3	12.6	12.6
152.5°	7.0	8.2	8.9	10.1	10.7	10.7	10.7	11.4	10.7	10.7	10.7
155°	6.3	7.0	7.6	8.2	8.9	9.5	9.5	9.5	9.5	8.9	8.9
157.5°	5.1	5.7	6.3	7.0	7.6	8.2	8.2	8.2	8.2	8.2	7.6
160°	3.8	4.4	5.1	5.1	5.7	6.3	7.0	6.3	6.3	6.3	6.3
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: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1146.9	1146.3	1148.2	1145.0	1135.6	1138.1	1136.8	1142.5	1143.8	1145.0	1150.7
5°	1146.9	1146.3	1147.6	1145.0	1134.9	1136.8	1135.6	1141.2	1142.5	1143.1	1148.8
7.5°	1144.4	1143.8	1145.7	1142.5	1131.8	1134.3	1132.4	1138.1	1138.7	1139.4	1144.4
10°	1139.4	1138.7	1140.0	1137.5	1126.7	1129.2	1126.7	1132.4	1132.4	1133.7	1137.5
12.5°	1131.8	1130.5	1133.0	1129.9	1117.9	1121.0	1119.8	1123.5	1124.2	1124.8	1128.6
15°	1121.0	1119.8	1121.6	1119.8	1109.0	1109.6	1107.7	1113.4	1114.1	1112.8	1116.6
17.5°	1105.2	1103.9	1107.7	1106.5	1095.7	1098.3	1097.6	1098.9	1100.8	1097.6	1102.7
20°	1085.6	1086.9	1088.1	1088.8	1080.6	1080.6	1079.9	1082.4	1084.3	1081.8	1085.6
22.5°	1056.5	1059.7	1063.5	1064.7	1059.1	1058.4	1062.2	1060.9	1062.8	1061.6	1064.1
25°	1019.9	1026.2	1030.0	1033.8	1030.6	1031.9	1037.6	1038.8	1038.8	1038.2	1040.7
27.5°	974.3	982.5	989.5	997.7	994.6	997.1	1006.6	1007.8	1010.4	1007.8	1012.9
30°	920.0	927.5	940.8	952.8	954.1	957.9	971.2	972.4	979.4	976.9	978.8
32.5°	865.6	869.4	884.5	896.6	904.1	913.6	928.2	930.7	940.2	942.1	942.1
35°	797.3	808.0	822.0	839.0	848.5	858.6	878.2	882.0	895.9	900.4	905.4
37.5°	739.8	749.9	758.7	776.4	793.5	804.9	820.7	830.2	844.7	852.9	859.3
40°	678.4	686.6	696.1	713.8	728.4	745.4	761.3	772.6	791.0	800.5	808.7
42.5°	620.3	626.6	636.7	649.3	664.5	683.5	698.7	711.9	731.5	744.8	754.3
45°	568.4	572.2	581.1	590.5	603.8	623.4	638.0	655.0	670.8	684.7	696.1
47.5°	519.7	524.8	529.2	535.5	547.5	559.6	576.6	593.1	608.9	624.1	635.4
50°	474.8	474.8	481.8	486.2	494.4	505.2	518.5	529.8	549.4	560.2	574.7
52.5°	431.2	433.7	437.5	440.1	446.4	453.3	464.1	473.6	490.0	500.1	514.0
55°	392.6	395.2	397.1	398.3	402.1	410.3	414.1	421.7	433.1	441.3	453.3
57.5°	356.0	357.2	359.1	359.8	360.4	365.5	368.6	370.5	381.9	390.1	400.2
60°	322.5	322.5	324.4	323.7	323.1	325.6	325.0	326.9	333.8	338.9	343.3
62.5°	290.8	290.8	291.5	290.2	289.6	289.6	287.1	288.9	290.8	291.5	294.6
65°	261.8	264.9	262.4	263.0	259.2	258.0	256.7	252.9	252.3	249.7	251.0
67.5°	235.8	238.4	235.8	235.8	232.7	230.1	227.0	220.7	218.8	213.7	212.4
70°	215.0	213.1	214.3	212.4	208.6	205.5	201.1	196.0	189.7	183.4	178.9
72.5°	194.7	194.7	193.5	191.6	189.7	183.4	178.3	172.6	165.0	156.8	150.5
75°	175.1	175.8	175.8	173.9	170.7	165.0	159.3	151.1	142.9	133.4	125.2
77.5°	161.2	161.2	161.2	158.1	154.9	149.8	142.9	134.0	125.2	113.8	104.3
80°	148.0	147.3	147.3	143.5	140.4	134.7	127.7	118.9	109.4	97.4	86.6
82.5°	137.2	136.6	135.3	132.1	127.7	122.0	115.1	105.6	95.5	84.7	71.4
85°	125.8	125.2	123.9	120.8	116.3	111.3	103.7	94.2	84.1	72.1	59.4
87.5°	115.7	115.1	113.2	111.3	106.2	100.5	92.9	84.1	73.3	62.0	49.3
90°	108.8	107.5	106.2	103.7	99.3	92.9	85.4	75.9	65.1	53.7	41.1
92.5°	100.5	99.9	98.0	95.5	91.7	85.4	77.8	68.9	58.2	47.4	35.4
95°	92.3	91.7	90.4	87.9	84.1	78.4	71.4	62.6	52.5	41.7	31.0
97.5°	84.7	84.7	82.8	80.9	76.5	72.1	65.1	56.9	47.4	37.9	27.8
100°	78.4	78.4	76.5	74.0	70.8	66.4	59.4	51.8	43.0	34.1	24.0
102.5°	72.7	72.1	70.8	68.3	65.1	60.7	54.4	47.4	39.2	30.3	21.5
105°	67.7	67.0	65.8	63.2	60.7	55.6	50.6	43.6	35.4	27.2	19.0
107.5°	62.6	62.0	61.3	58.8	55.6	51.2	46.2	39.2	32.2	24.7	17.1
110°	58.2	57.5	56.3	53.7	50.6	46.8	41.7	36.0	29.1	22.1	15.2



TEST NUMBER: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	54.4	53.7	52.5	49.9	47.4	43.0	38.6	32.2	26.6	20.2	13.3
115°	50.6	49.9	48.7	46.2	43.0	39.2	34.8	29.7	23.4	17.7	12.0
117.5°	46.8	46.2	44.9	43.0	39.8	36.0	31.6	26.6	20.9	16.4	10.7
120°	43.6	42.4	41.1	39.2	36.0	32.9	28.5	24.0	19.0	14.5	9.5
122.5°	40.5	39.2	37.9	36.0	32.9	29.7	25.3	21.5	17.7	13.3	8.9
125°	36.7	36.0	34.8	32.9	29.7	26.6	23.4	19.6	15.8	12.0	7.6
127.5°	33.5	32.9	31.6	29.1	26.6	24.0	20.9	17.7	13.9	10.1	7.0
130°	31.0	29.7	28.5	26.6	24.7	22.1	19.0	15.8	12.6	8.9	6.3
132.5°	27.8	26.6	25.3	24.0	22.1	19.6	17.1	13.9	11.4	8.2	5.7
135°	25.3	24.0	22.8	21.5	19.6	17.7	15.2	12.6	10.1	7.6	5.1
137.5°	22.1	21.5	20.9	19.6	17.7	15.8	13.9	10.7	8.9	7.0	4.4
140°	20.2	19.6	19.0	17.1	15.8	13.9	12.0	9.5	7.6	5.7	3.8
142.5°	18.3	17.7	16.4	15.2	13.9	12.6	10.1	8.9	7.0	5.1	3.8
145°	15.8	15.2	14.5	13.3	12.0	10.1	8.9	7.6	6.3	4.4	3.2
147.5°	14.5	13.9	12.6	11.4	10.1	8.9	8.2	7.0	5.1	3.8	2.5
150°	12.0	11.4	10.7	9.5	8.9	8.2	7.0	5.7	4.4	3.2	2.5
152.5°	10.1	9.5	8.9	8.9	7.6	7.0	5.7	5.1	3.8	3.2	1.9
155°	8.9	8.9	8.2	7.6	6.3	5.7	5.1	3.8	3.2	2.5	1.9
157.5°	7.6	7.0	6.3	6.3	5.7	5.1	3.8	3.2	2.5	2.5	1.9
160°	6.3	5.7	5.7	5.1	4.4	3.8	3.2	3.2	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: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1151.4	1144.4	1150.7	1159.0	1159.0	1157.7	1156.4	1159.0	1165.3	1162.7	1155.2
5°	1149.5	1142.5	1148.2	1156.4	1156.4	1154.5	1153.3	1155.2	1162.1	1159.0	1152.0
7.5°	1145.7	1139.4	1143.1	1150.7	1150.7	1148.8	1147.6	1150.1	1155.8	1152.6	1145.0
10°	1138.7	1131.8	1136.2	1143.1	1142.5	1141.2	1139.4	1142.5	1147.6	1143.1	1134.3
12.5°	1129.9	1122.9	1126.7	1133.0	1132.4	1129.9	1128.6	1130.5	1134.9	1132.4	1122.9
15°	1117.9	1110.9	1114.1	1120.4	1118.5	1116.6	1114.1	1114.7	1120.4	1116.0	1105.8
17.5°	1103.3	1095.7	1098.3	1103.9	1102.0	1100.2	1097.0	1097.6	1103.9	1097.6	1086.9
20°	1085.6	1077.4	1079.3	1086.2	1083.1	1079.9	1076.8	1076.8	1083.1	1076.1	1064.1
22.5°	1066.6	1058.4	1059.7	1064.7	1062.2	1056.5	1053.4	1055.3	1058.4	1049.6	1036.9
25°	1043.2	1032.5	1034.4	1039.5	1037.6	1030.0	1026.8	1028.1	1026.8	1019.9	1006.6
27.5°	1016.1	1004.7	1005.9	1009.1	1006.6	999.6	995.8	996.5	993.9	985.1	969.9
30°	981.9	976.2	975.6	977.5	973.7	966.7	962.3	961.1	960.4	947.8	929.4
32.5°	947.1	942.1	938.9	941.5	937.0	930.1	922.5	922.5	916.2	904.1	888.3
35°	911.7	903.5	900.4	902.2	897.2	888.3	882.0	878.9	869.4	854.2	837.1
37.5°	866.2	860.5	856.7	858.6	852.9	846.6	834.6	831.4	821.3	800.5	779.0
40°	816.9	812.5	808.7	810.6	804.2	794.8	784.0	779.0	767.6	744.2	727.1
42.5°	763.8	761.9	757.5	764.4	751.8	742.3	731.5	723.3	711.9	686.6	667.0
45°	707.5	711.9	701.8	703.7	695.5	687.3	675.9	663.9	652.5	628.5	606.3
47.5°	648.1	651.2	644.3	645.5	636.7	629.1	619.0	603.8	591.2	570.3	550.7
50°	586.7	585.5	585.5	584.2	577.3	567.8	557.7	543.8	531.1	512.1	495.7
52.5°	521.6	524.2	525.4	528.6	519.7	514.0	498.2	486.2	476.7	457.1	443.2
55°	459.0	467.9	465.4	466.6	456.5	452.1	439.4	429.9	416.0	404.7	395.8
57.5°	402.1	404.0	405.3	407.2	402.8	393.9	383.8	376.2	365.5	356.0	349.6
60°	347.1	347.1	347.7	350.9	346.5	338.9	331.3	325.6	318.0	312.3	308.5
62.5°	295.3	299.7	300.3	297.8	292.1	288.3	283.3	280.1	275.0	273.1	271.9
65°	247.2	247.2	247.2	248.5	245.3	242.8	239.6	239.0	240.9	238.4	239.6
67.5°	206.8	204.9	203.6	204.2	203.0	201.7	201.1	203.0	206.8	206.8	209.9
70°	172.0	168.2	165.7	165.7	165.7	166.3	168.2	172.0	178.3	180.8	185.3
72.5°	143.5	135.3	131.5	131.5	132.1	134.7	140.4	147.3	153.0	158.1	163.8
75°	116.3	108.1	102.4	101.8	103.1	106.9	115.1	121.4	130.9	137.8	144.8
77.5°	94.2	84.1	77.1	76.5	78.4	84.1	94.2	102.4	113.2	120.8	128.4
80°	75.2	63.9	58.2	54.4	57.5	64.5	75.9	86.0	96.1	106.2	115.7
82.5°	60.1	49.3	40.5	36.7	40.5	49.9	60.7	72.7	82.8	93.6	103.1
85°	47.4	36.0	25.9	22.1	26.6	36.7	48.7	60.7	72.1	82.8	92.3
87.5°	37.3	25.9	15.8	10.7	16.4	27.2	38.6	50.6	62.6	73.3	82.8
90°	29.1	18.3	8.9	1.3	9.5	19.6	31.0	42.4	54.4	65.1	74.6
92.5°	24.7	13.9	5.1	0.0	5.7	14.5	25.3	36.7	47.4	58.2	67.7
95°	20.9	11.4	3.8	0.0	3.8	11.4	20.9	31.0	41.7	52.5	62.0
97.5°	17.7	8.9	2.5	0.0	2.5	8.9	17.1	27.2	36.7	46.8	55.6
100°	15.2	7.6	1.9	0.0	1.9	7.0	14.5	23.4	32.9	42.4	50.6
102.5°	13.3	6.3	1.3	0.0	1.3	5.7	12.0	20.2	28.5	37.3	45.5
105°	11.4	5.1	1.3	0.0	0.6	4.4	10.1	17.7	25.3	33.5	41.1
107.5°	10.1	4.4	1.3	0.0	0.6	3.8	8.9	15.2	22.8	29.7	36.7
110°	8.9	3.8	1.3	0.0	0.6	2.5	7.6	13.3	19.6	26.6	33.5

TEST NUMBER: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.6	3.2	0.6	0.0	0.0	1.9	6.3	11.4	17.1	24.0	29.7
115°	7.0	3.2	0.6	0.0	0.0	1.3	5.1	10.1	15.2	21.5	26.6
117.5°	6.3	2.5	0.6	0.0	0.6	1.3	4.4	8.9	13.3	18.3	24.0
120°	5.7	2.5	0.6	0.0	0.6	0.6	3.2	7.6	11.4	16.4	20.9
122.5°	5.1	2.5	0.6	0.0	0.6	0.6	2.5	6.3	10.1	14.5	18.3
125°	4.4	1.9	1.3	0.6	0.6	0.6	1.9	5.1	8.9	12.0	16.4
127.5°	4.4	1.9	1.3	0.6	0.6	0.6	1.3	4.4	7.0	10.7	14.5
130°	3.8	1.9	1.3	0.6	0.6	0.6	0.6	3.2	6.3	8.9	12.0
132.5°	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.9	4.4	7.6	10.1
135°	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.3	3.2	5.7	8.2
137.5°	2.5	1.3	1.3	0.6	0.6	0.6	0.6	0.6	2.5	4.4	6.3
140°	2.5	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.9	3.2	5.1
142.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.3	2.5	3.8
145°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	2.5
147.5°	1.9	1.9	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9
150°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
152.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
155°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
157.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
160°	1.9	1.3	1.3	0.6	1.3	0.6	1.3	1.3	1.3	1.3	1.3
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: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1152.6	1140.6	1146.9	1145.0	1147.6	1152.6	1152.0	1150.7	1150.7	1148.8	1146.3
5°	1148.8	1137.5	1143.1	1140.0	1143.1	1147.6	1146.9	1145.0	1146.3	1143.1	1140.0
7.5°	1141.2	1131.1	1136.2	1133.7	1136.2	1140.6	1138.7	1138.1	1139.4	1134.3	1132.4
10°	1132.4	1121.0	1126.7	1123.5	1126.7	1129.9	1128.6	1126.1	1128.6	1123.5	1121.6
12.5°	1118.5	1109.0	1112.8	1111.5	1113.4	1116.6	1114.1	1112.2	1113.4	1109.0	1105.2
15°	1103.3	1093.8	1097.0	1095.1	1096.4	1100.2	1095.7	1095.1	1093.8	1089.4	1088.1
17.5°	1083.7	1074.9	1078.0	1074.9	1076.8	1075.5	1074.9	1071.7	1071.7	1066.6	1062.8
20°	1059.7	1052.1	1050.2	1047.7	1050.2	1047.7	1043.9	1041.3	1040.7	1035.7	1032.5
22.5°	1031.9	1023.0	1024.3	1017.3	1018.0	1014.2	1007.8	1005.3	1002.8	997.1	992.7
25°	998.4	989.5	983.2	978.8	973.1	972.4	964.2	957.9	957.3	950.3	949.7
27.5°	960.4	950.3	945.2	934.5	927.5	921.9	914.9	908.6	905.4	897.8	892.8
30°	916.8	905.4	892.8	885.2	874.4	870.0	858.0	850.4	847.9	839.7	835.9
32.5°	867.5	855.5	845.3	830.8	818.8	812.5	800.5	792.9	789.7	780.9	775.8
35°	813.7	800.5	788.4	774.5	765.0	754.3	739.8	732.2	725.2	722.1	718.3
37.5°	757.5	742.9	729.0	715.1	706.9	694.2	681.6	676.5	668.3	665.1	661.4
40°	699.3	684.7	671.5	658.2	648.7	637.3	625.9	624.1	615.2	612.0	609.5
42.5°	641.8	626.6	611.4	601.9	595.0	583.6	576.0	574.1	566.5	564.6	564.6
45°	589.9	570.9	558.3	550.1	544.4	534.9	528.6	527.3	521.0	519.7	519.7
47.5°	534.3	516.6	507.1	502.0	497.0	490.0	486.2	486.2	479.9	478.6	478.0
50°	482.4	466.0	459.0	454.0	453.3	448.3	445.1	443.9	443.9	439.4	440.1
52.5°	433.1	424.9	419.2	416.0	412.2	409.1	406.5	406.5	404.7	401.5	402.8
55°	387.6	378.1	378.7	376.2	374.3	372.4	373.0	369.2	368.6	366.1	368.0
57.5°	342.1	342.1	340.8	338.9	335.7	337.0	337.0	337.0	333.8	331.9	333.8
60°	303.5	305.4	302.2	304.1	302.9	303.5	302.2	302.2	300.3	299.7	300.3
62.5°	269.3	272.5	271.2	273.8	272.5	273.1	274.4	271.9	270.6	269.3	270.6
65°	239.0	242.8	242.2	244.1	244.7	245.3	246.0	244.7	243.4	242.2	241.5
67.5°	212.4	216.2	218.8	219.4	220.0	221.9	221.3	220.0	218.8	216.9	216.2
70°	188.4	193.5	196.6	197.9	200.4	199.2	199.2	198.5	197.3	195.4	194.7
72.5°	168.2	173.9	177.0	178.3	180.8	180.8	180.2	179.6	178.3	176.4	175.8
75°	150.5	155.5	160.0	162.5	164.4	164.4	163.8	163.1	161.9	160.6	160.0
77.5°	136.6	141.0	144.8	148.0	149.2	149.8	149.2	148.0	148.0	147.3	146.7
80°	122.7	127.7	131.5	134.7	136.6	136.6	135.9	136.6	135.3	134.7	134.0
82.5°	110.6	116.3	120.8	123.9	125.2	125.8	125.2	125.8	124.6	124.6	124.6
85°	99.9	105.6	110.6	113.2	115.1	115.7	115.7	115.7	115.1	115.1	115.1
87.5°	91.0	96.7	101.8	104.3	106.2	106.9	106.9	107.5	106.2	106.2	106.2
90°	82.8	88.5	93.6	96.1	98.0	99.3	99.3	99.9	99.3	98.6	98.6
92.5°	75.2	81.6	86.6	89.2	91.0	92.9	92.9	93.6	92.3	92.3	92.3
95°	68.9	75.2	79.7	82.8	84.7	86.0	86.6	86.6	86.0	86.0	86.0
97.5°	63.2	68.9	73.3	76.5	78.4	79.0	79.7	80.3	79.7	79.7	79.7
100°	57.5	63.2	67.7	70.2	72.7	73.3	74.0	74.6	74.6	74.0	74.0
102.5°	52.5	58.2	62.0	65.1	67.0	68.3	68.9	68.9	68.9	68.9	68.9
105°	47.4	53.1	56.9	60.1	62.0	63.2	63.9	64.5	64.5	63.9	63.9
107.5°	43.0	48.1	52.5	55.0	57.5	58.8	59.4	59.4	60.1	59.4	59.4
110°	38.6	44.3	48.1	50.6	53.1	54.4	55.0	55.6	55.6	55.6	55.6

TEST NUMBER: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	35.4	39.8	43.6	46.2	48.7	49.9	50.6	51.2	51.8	51.2	51.2
115°	31.6	36.0	39.8	42.4	44.3	45.5	46.8	47.4	47.4	48.1	47.4
117.5°	28.5	32.2	36.0	38.6	40.5	42.4	43.0	43.6	44.3	43.6	43.6
120°	25.3	29.1	32.2	34.8	36.7	38.6	39.2	39.8	40.5	39.8	39.8
122.5°	22.8	25.9	29.1	31.6	33.5	34.8	36.0	36.0	36.7	36.7	36.7
125°	20.2	23.4	25.9	28.5	30.3	31.6	32.2	32.9	32.9	33.5	33.5
127.5°	17.7	20.2	23.4	25.3	27.2	28.5	29.1	29.7	29.7	30.3	30.3
130°	15.2	17.7	20.2	22.1	24.0	25.3	25.9	26.6	27.2	27.2	27.2
132.5°	13.3	15.8	17.7	19.6	20.9	22.1	23.4	24.0	24.0	24.0	24.0
135°	10.7	13.3	15.2	17.1	18.3	19.6	20.2	21.5	21.5	21.5	21.5
137.5°	8.9	11.4	13.3	14.5	15.8	17.1	17.7	18.3	19.0	19.0	19.0
140°	7.0	8.9	10.7	12.6	13.9	14.5	15.8	15.8	16.4	16.4	16.4
142.5°	5.1	7.0	8.2	10.1	11.4	12.6	13.3	13.9	13.9	13.9	13.9
145°	3.8	5.1	6.3	7.6	9.5	10.1	10.7	11.4	12.0	12.0	12.0
147.5°	2.5	3.8	4.4	5.7	7.0	8.2	8.9	9.5	10.1	10.1	10.1
150°	1.9	2.5	3.8	4.4	5.1	6.3	7.6	7.6	8.2	8.2	7.6
152.5°	1.3	1.9	2.5	3.2	3.8	4.4	5.7	5.7	6.3	6.3	6.3
155°	1.3	1.3	1.3	1.9	2.5	3.2	3.8	4.4	4.4	4.4	4.4
157.5°	1.3	1.3	1.3	1.3	1.3	1.9	2.5	3.2	3.2	3.2	3.2
160°	1.3	1.3	0.6	0.6	1.3	1.3	1.3	1.3	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: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1148.2	1149.5	1149.5	1148.2	1147.6	1150.1	1146.9	1134.9	1138.7	1140.0	1143.8
5°	1142.5	1143.8	1143.8	1143.8	1142.5	1145.0	1141.9	1129.9	1134.3	1136.2	1138.7
7.5°	1134.3	1134.9	1136.2	1135.6	1134.3	1138.1	1134.9	1122.9	1126.1	1129.2	1132.4
10°	1123.5	1123.5	1124.2	1125.4	1124.2	1127.3	1124.2	1113.4	1116.6	1118.5	1122.3
12.5°	1109.0	1110.3	1110.9	1110.3	1109.6	1112.2	1110.9	1100.8	1102.0	1105.8	1109.6
15°	1089.4	1089.4	1092.6	1091.3	1091.3	1093.8	1095.1	1083.7	1085.6	1091.3	1095.1
17.5°	1065.4	1066.0	1068.5	1069.8	1069.2	1073.6	1074.2	1065.4	1064.7	1071.7	1075.5
20°	1034.4	1035.7	1038.8	1041.3	1041.3	1046.4	1048.3	1042.6	1043.2	1050.8	1052.1
22.5°	996.5	996.5	1002.1	1005.9	1009.1	1012.3	1018.0	1012.9	1012.9	1023.0	1028.7
25°	949.7	954.1	956.0	963.6	968.0	976.9	981.9	982.5	983.2	992.7	996.5
27.5°	897.8	899.1	904.8	913.6	918.7	926.9	936.4	938.3	941.5	954.1	959.8
30°	839.0	842.8	845.3	858.0	864.9	875.7	887.7	892.1	894.7	911.7	918.7
32.5°	779.0	780.2	791.0	797.9	806.1	817.5	831.4	839.7	844.7	862.4	872.5
35°	718.9	721.4	730.3	739.1	747.3	758.7	773.3	784.6	793.5	809.3	822.6
37.5°	663.9	670.2	672.1	681.0	687.3	698.7	708.8	725.2	734.1	750.5	767.6
40°	614.6	616.5	617.7	626.6	631.0	641.8	656.3	667.0	679.1	691.1	711.3
42.5°	565.9	567.1	569.0	574.1	579.2	586.7	597.5	608.2	620.9	638.6	651.9
45°	521.0	522.3	523.5	526.7	531.1	538.1	545.0	552.6	565.2	580.4	594.3
47.5°	479.3	481.8	481.8	482.4	485.6	491.3	496.3	505.8	512.8	521.0	536.8
50°	439.4	441.3	442.0	442.0	443.9	447.6	448.9	455.2	461.6	469.1	480.5
52.5°	402.1	402.1	401.5	404.0	404.0	406.5	407.2	411.0	415.4	423.6	428.7
55°	366.7	366.7	368.6	367.3	367.3	368.6	368.0	368.6	372.4	377.5	381.9
57.5°	332.6	331.9	333.8	332.6	331.9	333.2	334.5	331.9	332.6	337.6	337.6
60°	298.4	299.1	301.0	299.7	299.7	299.7	298.4	297.2	295.9	299.1	300.3
62.5°	271.2	269.3	271.2	269.3	270.6	270.0	268.7	266.2	266.8	265.6	264.3
65°	242.8	242.8	243.4	241.5	242.8	242.8	240.9	240.3	236.5	235.2	232.0
67.5°	218.1	218.1	218.8	217.5	217.5	218.1	216.2	214.3	210.5	208.6	204.2
70°	196.6	196.6	196.6	196.0	196.0	196.0	194.7	192.2	188.4	185.3	179.6
72.5°	177.0	177.7	177.0	177.0	178.9	177.0	175.1	172.6	169.4	163.1	158.1
75°	161.2	161.9	161.2	161.2	161.2	160.6	160.0	156.2	152.4	147.3	139.7
77.5°	147.3	147.3	148.0	147.3	147.3	146.7	144.8	141.6	137.2	132.8	123.9
80°	134.0	134.7	135.3	135.9	134.7	134.0	132.1	129.6	123.9	118.9	110.0
82.5°	124.6	123.9	124.6	125.2	123.9	123.3	121.4	118.2	113.8	106.9	98.0
85°	115.1	114.4	114.4	115.1	114.4	113.2	111.3	108.1	103.7	96.7	87.9
87.5°	105.6	106.2	106.9	106.2	105.6	104.3	102.4	99.3	94.2	88.5	79.0
90°	98.6	98.6	98.6	98.6	98.0	96.7	94.8	91.0	86.6	79.7	71.4
92.5°	92.3	92.3	92.3	92.3	91.7	89.8	87.9	84.7	79.7	72.7	65.1
95°	86.0	86.6	86.0	86.0	84.7	84.1	80.9	77.8	73.3	66.4	58.2
97.5°	79.0	79.7	79.0	79.0	78.4	77.1	75.2	71.4	67.0	60.7	53.1
100°	74.0	74.0	73.3	73.3	72.7	71.4	68.9	65.8	61.3	55.0	47.4
102.5°	68.3	68.9	68.3	68.3	67.0	65.8	63.9	60.7	56.3	49.9	43.0
105°	63.9	63.9	63.2	63.2	62.0	60.7	58.8	55.0	51.2	45.5	38.6
107.5°	59.4	59.4	58.8	58.8	57.5	56.3	53.7	50.6	46.8	41.1	34.8
110°	55.0	55.0	55.0	54.4	53.1	51.2	49.3	46.2	42.4	37.3	31.0

TEST NUMBER: P1213402

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.8	51.2	50.6	49.9	48.7	47.4	44.9	41.7	37.9	33.5	27.8
115°	47.4	47.4	46.8	46.2	44.9	43.0	41.1	38.6	34.8	29.7	24.7
117.5°	43.6	43.6	43.0	42.4	41.1	39.2	37.3	34.8	31.0	26.6	22.1
120°	39.8	39.8	39.2	38.6	37.3	35.4	34.1	31.0	27.8	23.4	19.6
122.5°	36.7	36.0	36.0	34.8	34.1	32.2	30.3	27.8	24.7	20.9	17.1
125°	32.9	32.9	32.2	31.6	31.0	29.1	27.2	24.7	21.5	18.3	15.2
127.5°	29.7	29.7	29.1	28.5	27.8	25.9	24.0	22.1	19.0	15.8	12.6
130°	26.6	26.6	25.9	25.3	24.7	22.8	21.5	19.0	16.4	13.9	10.7
132.5°	24.0	24.0	23.4	22.8	21.5	20.2	19.0	16.4	14.5	12.0	9.5
135°	21.5	20.9	20.9	20.2	19.0	17.7	16.4	14.5	12.0	10.1	7.6
137.5°	19.0	18.3	17.7	17.1	16.4	15.2	13.9	12.6	10.7	8.2	6.3
140°	16.4	15.8	15.8	15.2	13.9	13.3	12.0	10.1	8.9	7.0	5.1
142.5°	13.9	13.9	13.3	12.6	12.0	11.4	10.1	8.9	7.0	5.7	3.8
145°	12.0	11.4	11.4	10.7	10.1	8.9	8.2	7.0	5.7	4.4	3.2
147.5°	9.5	9.5	9.5	8.9	8.2	7.6	7.0	5.7	4.4	3.2	1.9
150°	7.6	7.6	7.6	7.0	6.3	5.7	5.1	4.4	3.2	1.9	1.3
152.5°	6.3	6.3	5.7	5.7	5.1	4.4	3.8	3.2	1.9	1.3	1.3
155°	4.4	4.4	4.4	3.8	3.8	3.2	2.5	1.9	1.3	1.3	1.3
157.5°	3.2	3.2	3.2	2.5	2.5	1.9	1.9	1.3	1.3	1.3	1.3
160°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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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CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1141.9	1141.2	1146.3	1146.3	1140.6	1149.5	1159.0
5°	1138.1	1137.5	1142.5	1142.5	1137.5	1146.3	1156.4
7.5°	1130.5	1131.1	1136.2	1137.5	1131.1	1139.4	1150.1
10°	1122.3	1121.6	1127.3	1128.6	1123.5	1131.1	1141.2
12.5°	1109.0	1109.0	1114.7	1116.6	1111.5	1120.4	1129.9
15°	1095.1	1095.1	1098.9	1102.0	1097.6	1105.8	1115.3
17.5°	1077.4	1076.8	1080.6	1084.3	1079.9	1088.8	1098.9
20°	1054.6	1054.6	1059.1	1063.5	1060.3	1068.5	1079.9
22.5°	1030.6	1028.1	1035.7	1038.8	1036.9	1045.1	1056.5
25°	1000.3	999.6	1007.2	1011.6	1009.1	1018.0	1028.1
27.5°	967.4	966.7	974.3	980.0	978.8	987.0	998.4
30°	927.5	930.7	937.7	947.1	944.0	952.8	964.8
32.5°	885.8	889.0	897.2	907.3	907.9	914.9	926.9
35°	835.9	844.1	849.8	863.0	865.6	872.5	885.2
37.5°	783.4	792.9	804.9	815.0	820.1	825.7	840.3
40°	724.6	738.5	751.8	763.8	770.1	775.8	789.7
42.5°	671.5	682.2	694.9	706.9	718.3	723.3	737.9
45°	611.4	624.1	635.4	650.0	661.4	667.0	681.6
47.5°	552.6	565.2	580.4	590.5	602.6	608.2	622.2
50°	496.3	507.7	520.4	532.4	542.5	547.5	559.6
52.5°	440.7	452.7	464.7	472.3	483.1	486.8	497.0
55°	391.4	399.6	410.3	414.8	425.5	428.0	435.0
57.5°	344.0	349.6	353.4	361.0	368.6	374.3	382.5
60°	301.0	303.5	306.0	310.4	316.8	318.7	321.8
62.5°	262.4	261.8	266.8	268.1	268.7	275.0	271.9
65°	228.2	228.9	224.5	222.6	225.1	227.0	225.7
67.5°	199.8	196.0	192.2	187.8	184.0	185.9	184.0
70°	172.0	168.8	162.5	156.2	153.6	149.8	148.0
72.5°	149.8	142.3	135.9	127.7	123.3	118.9	115.7
75°	132.8	122.0	113.2	104.3	98.0	91.7	90.4
77.5°	115.1	105.0	94.8	85.4	75.9	68.9	66.4
80°	101.2	91.7	79.7	68.3	58.2	49.3	46.2
82.5°	88.5	78.4	66.4	54.4	43.0	33.5	29.7
85°	77.8	67.0	55.0	43.0	31.6	21.5	16.4
87.5°	69.5	57.5	45.5	34.1	22.1	12.0	6.3
90°	62.0	50.6	39.2	27.2	15.8	6.3	0.0
92.5°	55.0	44.3	32.9	22.1	12.0	3.8	0.6
95°	48.7	39.2	27.8	17.7	8.9	2.5	0.6
97.5°	43.6	34.1	24.0	14.5	7.0	1.9	0.6
100°	39.2	29.7	20.9	12.0	5.7	1.3	0.6
102.5°	34.8	26.6	17.7	10.1	4.4	0.6	0.6
105°	31.0	23.4	15.2	8.9	3.8	0.6	0.6
107.5°	27.8	20.9	13.3	7.6	2.5	0.6	0.6
110°	24.7	17.7	11.4	6.3	1.9	0.6	0.6

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	22.1	15.8	10.1	5.1	1.3	0.6	0.6
115°	19.6	13.9	8.9	4.4	1.3	0.6	0.6
117.5°	17.1	12.0	7.6	3.2	0.6	0.6	0.6
120°	15.2	10.7	6.3	2.5	0.6	0.6	0.6
122.5°	13.3	8.9	5.1	1.9	0.6	0.6	0.6
125°	11.4	7.6	4.4	1.3	0.6	0.6	0.6
127.5°	9.5	6.3	3.2	1.3	0.6	0.6	0.6
130°	8.2	5.1	2.5	0.6	0.6	0.6	0.6
132.5°	7.0	3.8	1.9	0.6	0.6	0.6	0.6
135°	5.7	3.2	1.3	0.6	0.6	0.6	0.6
137.5°	4.4	2.5	1.3	0.6	0.6	0.6	0.6
140°	3.2	1.9	0.6	0.6	0.6	0.6	0.6
142.5°	2.5	1.3	0.6	0.6	0.6	0.6	0.6
145°	1.9	1.3	0.6	0.6	0.6	0.6	0.6
147.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6
150°	1.3	1.3	0.6	0.6	1.3	0.6	0.6
152.5°	1.3	0.6	0.6	0.6	1.3	0.6	0.6
155°	1.3	1.3	1.3	1.3	1.3	1.3	0.6
157.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)