

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: P1213753

Luminaire Tested: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213753
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

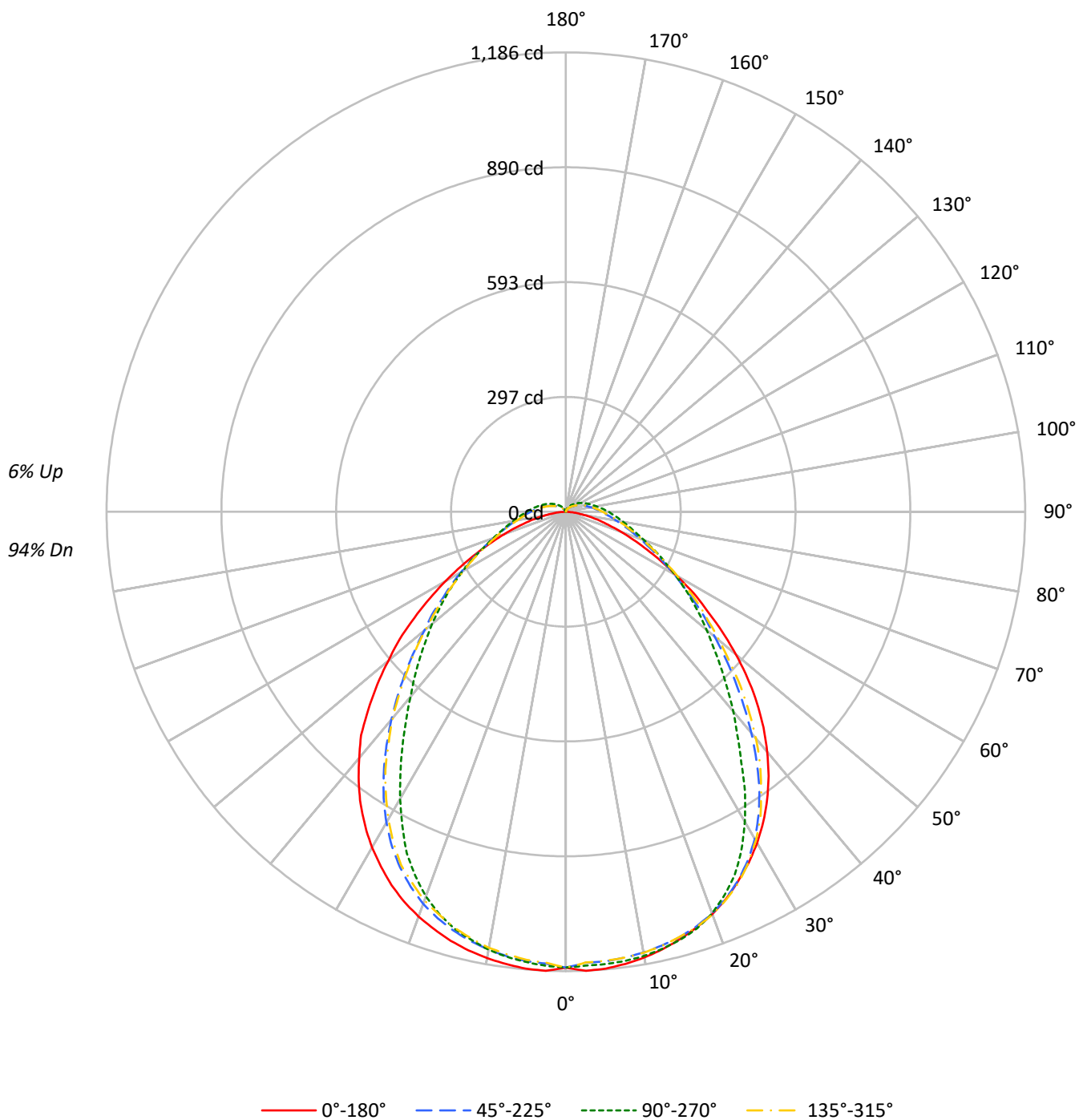
Lumens per Lamp: N/A
Luminaire Lumens: 2978.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	9509	9509	9509	9509
5°	9577	9206	9577	9166
10°	9534	8962	9550	8838
15°	9473	8694	9516	8467
20°	9400	8350	9455	7997
25°	9250	7839	9352	7377
30°	9053	7089	9172	6562
35°	8748	6169	8917	5744
40°	8310	5395	8530	5006
45°	7733	4690	7983	4421
50°	6943	4121	7249	3913
55°	6006	3639	6443	3455
60°	5052	3195	5507	3012
65°	4141	2825	4559	2620
70°	3297	2507	3690	2319
75°	2589	2315	2914	2130
80°	1870	2234	2202	2041
85°	1148	2247	1551	2064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 7983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.7
10°-20°	319.9	10.7
20°-30°	474.1	15.9
30°-40°	526.7	17.7
40°-50°	477.5	16.0
50°-60°	370.0	12.4
60°-70°	251.2	8.4
70°-80°	159.8	5.4
80°-90°	102.2	3.4
90°-100°	68.9	2.3
100°-110°	47.2	1.6
110°-120°	31.5	1.1
120°-130°	19.6	0.7
130°-140°	10.8	0.4
140°-150°	5.1	0.2
150°-160°	1.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	905.6	30.4
0°-40°	1432.3	48.1
0°-60°	2279.7	76.6
0°-90°	2793.0	93.8
90°-120°	147.6	5.0
90°-150°	183.0	6.1
90°-180°	185.0	6.2
0°-180°	2978.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1177	1177	1177	1177	1177	
5°	1184	1172	1184	1167	1184	112
15°	1142	1144	1147	1114	1142	322
25°	1052	1033	1064	972	1052	485
35°	906	790	924	735	906	565
45°	698	564	720	532	698	536
55°	445	397	478	377	445	401
65°	231	267	254	247	231	232
75°	93	178	104	164	93	100
85°	17	128	23	118	17	20
90°	0	111	1	101	0	1
95°	1	94	0	88	1	0
105°	1	69	0	65	1	1
115°	1	52	0	48	1	1
125°	1	39	1	34	1	1
135°	1	27	1	22	1	0
145°	1	18	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°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1186.4	1185.1	1183.9	1181.9	1183.9	1189.0	1185.8	1178.7	1177.4	1165.7	1170.9
5°	1183.9	1181.9	1180.6	1178.7	1181.3	1187.7	1184.5	1178.0	1176.1	1165.1	1170.9
7.5°	1177.4	1176.1	1174.1	1174.1	1176.7	1183.2	1180.6	1173.5	1172.2	1161.2	1167.7
10°	1168.3	1167.7	1166.4	1166.4	1169.0	1176.7	1173.5	1167.0	1165.7	1155.4	1162.5
12.5°	1156.7	1157.3	1155.4	1155.4	1159.3	1167.0	1164.4	1157.3	1156.0	1147.0	1154.1
15°	1141.8	1142.4	1141.1	1141.8	1145.7	1154.7	1151.5	1145.0	1143.7	1136.6	1142.4
17.5°	1125.0	1125.6	1125.6	1125.0	1129.5	1138.5	1136.0	1130.1	1128.2	1122.4	1129.5
20°	1105.5	1105.5	1105.5	1105.5	1110.7	1119.8	1116.5	1112.0	1108.1	1103.6	1109.4
22.5°	1081.6	1080.9	1081.6	1083.5	1088.7	1095.8	1093.9	1088.7	1082.9	1080.3	1084.8
25°	1052.5	1054.4	1055.0	1057.0	1063.5	1069.3	1067.3	1062.2	1053.1	1051.2	1052.5
27.5°	1022.0	1023.3	1025.3	1024.6	1033.7	1039.5	1035.6	1031.1	1018.2	1016.2	1014.9
30°	987.7	989.7	991.0	990.3	997.4	1003.9	1000.0	994.2	976.7	975.4	965.1
32.5°	948.9	950.8	952.1	952.1	962.5	965.1	958.0	949.5	930.8	926.2	917.2
35°	906.2	908.1	908.8	908.8	919.1	918.5	909.4	897.8	877.0	871.2	855.7
37.5°	860.2	861.5	862.2	866.0	870.6	866.7	855.0	840.2	824.6	808.4	791.6
40°	808.4	810.4	811.7	814.3	818.8	814.3	797.4	779.3	762.5	744.4	727.5
42.5°	755.4	761.2	759.9	759.2	761.8	749.5	736.6	715.9	699.0	680.3	663.4
45°	697.8	697.1	700.3	701.6	701.0	690.6	672.5	653.7	636.9	617.5	603.3
47.5°	636.9	636.3	638.9	640.1	636.3	625.3	611.0	589.7	575.4	558.6	547.6
50°	572.8	572.8	576.7	572.8	570.9	559.9	548.2	526.9	515.9	501.0	494.5
52.5°	508.8	514.6	510.7	509.4	507.5	496.5	487.4	469.9	460.9	454.4	446.6
55°	445.3	451.8	449.2	447.3	446.6	437.6	429.1	416.2	410.4	405.8	401.3
57.5°	391.6	390.9	389.7	387.7	388.4	381.2	372.8	365.7	363.1	361.2	362.5
60°	329.5	334.6	332.7	333.3	334.0	332.7	325.6	321.0	321.7	322.3	324.3
62.5°	278.3	282.9	286.1	283.5	284.8	286.7	282.9	281.6	284.2	286.7	289.3
65°	231.1	235.6	238.8	238.2	242.1	246.0	245.3	246.6	252.4	255.7	258.9
67.5°	188.4	192.9	197.4	198.1	203.9	209.7	212.3	216.8	223.3	227.8	231.7
70°	151.5	155.3	160.5	163.8	171.5	179.3	183.8	192.9	196.8	203.2	205.8
72.5°	118.4	121.7	128.8	136.6	143.0	152.8	161.8	169.6	175.4	182.5	185.8
75°	92.6	93.9	101.6	110.7	119.7	130.7	140.5	148.9	156.6	163.8	168.9
77.5°	68.0	69.9	77.0	89.3	99.7	111.3	122.3	131.4	139.8	146.9	154.0
80°	47.3	51.1	58.9	71.2	82.9	95.8	106.2	116.5	125.6	132.7	139.8
82.5°	30.4	33.7	44.7	57.0	69.3	82.2	93.2	103.6	113.3	121.0	127.5
85°	16.8	21.4	32.4	45.3	57.6	70.6	82.2	92.6	102.3	109.4	115.9
87.5°	6.5	12.9	23.3	35.6	47.9	60.2	72.5	82.2	91.9	99.7	105.5
90°	0.0	7.8	17.5	29.8	42.1	54.4	66.0	76.4	85.4	92.6	99.0
92.5°	0.6	5.2	13.6	23.9	35.6	47.3	58.3	68.6	77.7	84.8	90.6
95°	0.6	3.9	11.0	20.7	31.1	42.1	52.4	62.1	70.6	77.7	83.5
97.5°	0.6	2.6	9.1	18.1	27.2	38.2	47.9	57.0	64.7	71.8	76.4
100°	0.6	2.6	7.8	15.5	24.6	34.3	43.4	52.4	59.5	65.4	70.6
102.5°	0.6	1.9	6.5	13.6	22.0	30.4	39.5	47.9	54.4	60.2	65.4
105°	0.6	1.9	5.8	11.7	19.4	27.8	35.6	43.4	50.5	55.7	60.2
107.5°	0.6	1.3	5.2	9.7	16.8	25.2	33.0	39.5	46.0	51.1	55.7
110°	0.6	1.3	4.5	9.1	14.9	22.7	29.8	36.2	42.1	47.3	51.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.3	3.9	8.4	13.6	20.1	27.2	33.0	38.8	43.4	47.3
115°	0.6	1.3	3.9	7.8	12.3	17.5	23.9	30.4	35.0	40.1	43.4
117.5°	0.6	1.3	3.2	6.5	11.7	16.2	22.0	27.2	32.4	36.9	40.1
120°	0.6	1.3	3.2	5.8	10.4	14.9	19.4	24.6	29.8	33.0	36.2
122.5°	0.6	1.3	2.6	5.8	9.1	13.6	17.5	22.0	26.5	30.4	33.7
125°	0.6	1.3	2.6	5.2	8.4	12.3	16.2	19.4	23.9	27.2	30.4
127.5°	0.6	1.3	2.6	4.5	7.8	11.0	14.9	18.1	21.4	24.6	27.2
130°	0.6	1.3	1.9	3.9	7.1	9.7	12.9	16.8	19.4	22.0	24.6
132.5°	0.6	1.3	1.9	3.9	5.8	8.4	11.7	14.9	17.5	20.1	22.0
135°	0.6	1.3	1.9	3.2	5.2	7.8	9.7	12.9	15.5	18.1	20.1
137.5°	0.6	1.3	1.9	3.2	4.5	6.5	8.4	11.0	13.6	15.5	18.1
140°	0.6	1.3	1.9	2.6	3.9	5.8	7.8	9.1	11.7	13.6	15.5
142.5°	0.6	1.3	1.9	2.6	3.9	5.2	6.5	7.8	9.7	11.7	13.6
145°	0.6	1.3	1.9	2.6	3.2	4.5	5.8	7.1	7.8	9.7	11.0
147.5°	0.6	1.3	1.9	2.6	2.6	3.9	5.2	5.8	7.1	7.8	9.1
150°	0.6	1.3	1.9	1.9	2.6	3.2	4.5	5.2	5.8	7.1	7.8
152.5°	0.6	1.3	1.9	1.9	2.6	3.2	3.9	4.5	5.2	5.8	6.5
155°	0.6	1.3	1.9	1.9	1.9	2.6	3.2	3.9	4.5	5.2	5.8
157.5°	1.3	1.3	1.3	1.9	1.9	2.6	2.6	3.2	3.9	3.9	4.5
160°	1.3	1.3	1.3	1.9	1.9	1.9	2.6	2.6	3.2	3.2	3.9
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1169.6	1171.6	1177.4	1177.4	1176.1	1174.8	1174.8	1172.8	1174.1	1176.7	1175.4
5°	1169.6	1171.6	1177.4	1177.4	1176.1	1174.8	1174.1	1172.2	1174.1	1176.7	1175.4
7.5°	1165.7	1168.3	1174.1	1174.1	1172.8	1172.2	1170.9	1169.6	1171.6	1174.1	1172.8
10°	1160.6	1163.1	1169.0	1169.0	1167.7	1167.7	1165.7	1164.4	1167.0	1169.0	1168.3
12.5°	1152.8	1156.0	1161.2	1160.6	1159.3	1159.9	1158.0	1155.4	1158.0	1159.9	1160.6
15°	1141.8	1145.7	1150.8	1149.5	1147.6	1148.9	1145.7	1143.7	1145.7	1149.5	1148.9
17.5°	1127.5	1130.1	1134.0	1134.0	1132.1	1130.8	1129.5	1127.5	1128.8	1131.4	1132.1
20°	1107.5	1110.7	1112.7	1110.7	1110.1	1108.1	1105.5	1103.6	1106.2	1110.1	1110.7
22.5°	1080.9	1081.6	1086.1	1081.6	1078.3	1077.7	1075.1	1071.2	1075.1	1078.3	1079.0
25°	1047.9	1051.2	1049.2	1041.5	1041.5	1036.3	1035.0	1033.0	1033.7	1039.5	1042.1
27.5°	1005.9	1007.1	1002.0	995.5	989.7	986.4	981.9	982.6	982.6	990.3	992.9
30°	959.9	952.8	948.2	937.9	933.4	925.6	924.3	924.3	923.0	926.9	938.5
32.5°	904.9	895.2	888.1	878.3	870.6	862.8	858.9	860.9	860.2	869.9	873.8
35°	844.7	838.9	824.0	811.7	807.1	795.5	795.5	789.7	793.5	804.6	809.1
37.5°	781.3	772.2	759.9	746.3	743.1	734.0	730.8	727.5	735.9	737.9	742.4
40°	716.5	708.1	696.5	683.5	683.5	672.5	672.5	672.5	673.2	677.0	685.5
42.5°	655.0	646.0	635.6	626.6	625.3	616.8	616.8	616.2	617.5	620.7	628.5
45°	595.5	588.4	577.4	572.8	573.5	564.4	566.4	564.4	567.0	570.2	572.8
47.5°	540.5	535.9	531.4	524.9	523.0	522.3	519.1	516.5	521.1	521.1	524.9
50°	489.3	486.7	484.2	480.3	480.9	478.3	474.4	474.4	477.7	478.3	480.9
52.5°	444.7	441.4	438.2	438.8	439.5	438.2	436.3	434.3	436.3	437.6	440.8
55°	400.0	397.4	400.7	399.4	400.7	399.4	398.1	396.8	400.0	398.1	401.3
57.5°	359.9	362.5	363.8	361.2	363.1	361.8	362.5	360.5	363.1	364.4	363.8
60°	323.0	326.9	324.9	325.6	328.2	326.9	324.3	326.2	328.8	329.5	328.8
62.5°	289.3	293.9	295.8	294.5	295.2	293.9	295.8	293.2	296.4	297.7	295.8
65°	258.9	264.1	265.4	265.4	265.4	264.1	266.0	266.7	268.0	268.0	266.7
67.5°	233.0	237.5	238.8	240.1	238.8	237.5	237.5	238.2	240.8	242.1	240.8
70°	209.7	214.2	214.9	214.9	215.5	216.8	214.2	215.5	217.5	218.1	217.5
72.5°	189.6	194.2	195.5	194.8	195.5	196.1	196.1	194.8	196.8	198.1	198.1
75°	173.5	176.1	177.4	177.4	178.0	178.6	178.6	178.0	179.3	179.9	180.6
77.5°	158.6	160.5	162.5	162.5	163.1	162.5	163.8	163.8	164.4	165.1	165.7
80°	143.7	146.3	147.6	148.2	149.5	150.2	150.2	150.2	150.8	151.5	151.5
82.5°	132.0	134.0	135.9	137.9	137.9	138.5	138.5	138.5	139.2	139.2	139.8
85°	120.4	123.0	124.9	126.2	126.9	127.5	127.5	128.2	128.2	128.2	128.8
87.5°	110.0	113.3	114.6	115.9	116.5	117.8	117.8	117.8	118.4	118.4	118.4
90°	102.9	106.2	107.4	108.7	109.4	110.0	110.0	110.7	110.7	111.3	111.3
92.5°	94.5	97.7	100.3	100.3	101.0	102.3	101.6	101.6	102.3	102.9	102.9
95°	88.0	90.6	92.6	93.2	93.9	93.9	93.9	94.5	93.9	94.5	94.5
97.5°	80.3	82.9	84.8	86.1	86.7	86.7	86.7	87.4	86.7	87.4	87.4
100°	73.8	76.4	78.3	79.0	80.3	80.3	80.3	80.3	80.3	80.3	80.9
102.5°	68.6	71.2	72.5	73.1	73.8	74.4	74.4	74.4	74.4	75.1	75.1
105°	63.4	66.0	67.3	68.0	68.6	69.3	69.3	69.3	69.9	69.9	69.3
107.5°	58.9	60.8	62.1	63.4	64.1	64.1	64.7	64.7	64.7	64.7	64.7
110°	54.4	56.3	58.3	59.5	59.5	60.2	60.2	60.8	60.8	60.2	60.8

TEST NUMBER: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	49.8	52.4	53.7	55.0	55.7	56.3	56.3	56.3	56.3	56.3	56.3
115°	46.0	48.5	49.8	51.1	51.8	52.4	52.4	52.4	52.4	52.4	52.4
117.5°	42.7	45.3	46.6	47.3	47.9	48.5	49.2	49.2	49.2	49.2	48.5
120°	39.5	41.4	42.7	44.0	44.7	45.3	45.3	45.3	45.3	45.3	45.3
122.5°	36.2	38.2	39.5	40.8	41.4	42.1	42.1	42.1	42.1	42.1	42.1
125°	33.0	35.0	36.2	37.5	38.2	38.8	38.8	38.8	38.8	38.8	38.8
127.5°	29.8	31.7	33.7	34.3	35.0	35.6	35.6	35.6	36.2	35.6	35.6
130°	26.5	28.5	30.4	31.1	31.7	32.4	33.0	33.0	33.0	33.0	32.4
132.5°	23.9	25.9	27.2	27.8	29.1	29.1	29.8	29.8	29.8	29.8	29.1
135°	22.0	23.3	24.6	25.2	26.5	26.5	26.5	27.2	27.2	26.5	25.9
137.5°	19.4	20.7	22.0	22.7	23.3	23.9	23.9	24.6	23.9	23.9	23.9
140°	18.1	18.8	20.1	20.7	21.4	21.4	21.4	22.0	22.0	21.4	21.4
142.5°	15.5	16.8	18.1	18.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4
145°	12.9	14.9	15.5	16.8	16.8	17.5	17.5	17.5	17.5	17.5	16.8
147.5°	11.0	12.3	14.2	14.9	14.9	15.5	15.5	15.5	15.5	15.5	14.9
150°	8.4	9.7	11.7	12.9	12.9	13.6	13.6	13.6	13.6	12.9	12.9
152.5°	7.1	8.4	9.1	10.4	11.0	11.0	11.0	11.7	11.0	11.0	11.0
155°	6.5	7.1	7.8	8.4	9.1	9.7	9.7	9.7	9.7	9.1	9.1
157.5°	5.2	5.8	6.5	7.1	7.8	8.4	8.4	8.4	8.4	8.4	7.8
160°	3.9	4.5	5.2	5.2	5.8	6.5	7.1	6.5	6.5	6.5	6.5
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

TEST NUMBER: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1174.1	1173.5	1175.4	1172.2	1162.5	1165.1	1163.8	1169.6	1170.9	1172.2	1178.0
5°	1174.1	1173.5	1174.8	1172.2	1161.8	1163.8	1162.5	1168.3	1169.6	1170.3	1176.1
7.5°	1171.6	1170.9	1172.8	1169.6	1158.6	1161.2	1159.3	1165.1	1165.7	1166.4	1171.6
10°	1166.4	1165.7	1167.0	1164.4	1153.4	1156.0	1153.4	1159.3	1159.3	1160.6	1164.4
12.5°	1158.6	1157.3	1159.9	1156.7	1144.4	1147.6	1146.3	1150.2	1150.8	1151.5	1155.4
15°	1147.6	1146.3	1148.3	1146.3	1135.3	1136.0	1134.0	1139.8	1140.5	1139.2	1143.1
17.5°	1131.4	1130.1	1134.0	1132.7	1121.7	1124.3	1123.7	1125.0	1126.9	1123.7	1128.8
20°	1111.4	1112.7	1113.9	1114.6	1106.2	1106.2	1105.5	1108.1	1110.1	1107.5	1111.4
22.5°	1081.6	1084.8	1088.7	1090.0	1084.2	1083.5	1087.4	1086.1	1088.1	1086.8	1089.4
25°	1044.0	1050.5	1054.4	1058.3	1055.0	1056.3	1062.2	1063.5	1063.5	1062.8	1065.4
27.5°	997.4	1005.9	1013.0	1021.4	1018.2	1020.7	1030.4	1031.7	1034.3	1031.7	1036.9
30°	941.8	949.5	963.1	975.4	976.7	980.6	994.2	995.5	1002.6	1000.0	1002.0
32.5°	886.1	890.0	905.5	917.8	925.6	935.3	950.2	952.8	962.5	964.4	964.4
35°	816.2	827.2	841.4	858.9	868.6	879.0	899.1	902.9	917.2	921.7	926.9
37.5°	757.3	767.7	776.7	794.8	812.3	824.0	840.2	849.9	864.7	873.2	879.6
40°	694.5	702.9	712.6	730.8	745.7	763.1	779.3	791.0	809.7	819.4	827.9
42.5°	635.0	641.4	651.8	664.7	680.3	699.7	715.2	728.8	748.9	762.5	772.2
45°	581.9	585.8	594.8	604.5	618.1	638.2	653.1	670.6	686.8	701.0	712.6
47.5°	532.1	537.2	541.8	548.2	560.5	572.8	590.3	607.1	623.3	638.9	650.5
50°	486.1	486.1	493.2	497.7	506.2	517.2	530.8	542.4	562.5	573.5	588.4
52.5°	441.4	444.0	447.9	450.5	457.0	464.1	475.1	484.8	501.6	512.0	526.2
55°	402.0	404.5	406.5	407.8	411.7	420.1	424.0	431.7	443.4	451.8	464.1
57.5°	364.4	365.7	367.6	368.3	368.9	374.1	377.4	379.3	390.9	399.4	409.7
60°	330.1	330.1	332.0	331.4	330.8	333.3	332.7	334.6	341.8	346.9	351.5
62.5°	297.7	297.7	298.4	297.1	296.4	296.4	293.9	295.8	297.7	298.4	301.6
65°	268.0	271.2	268.6	269.3	265.4	264.1	262.8	258.9	258.3	255.7	257.0
67.5°	241.4	244.0	241.4	241.4	238.2	235.6	232.4	225.9	224.0	218.8	217.5
70°	220.1	218.1	219.4	217.5	213.6	210.4	205.8	200.7	194.2	187.7	183.2
72.5°	199.4	199.4	198.1	196.1	194.2	187.7	182.5	176.7	168.9	160.5	154.0
75°	179.3	179.9	179.9	178.0	174.8	168.9	163.1	154.7	146.3	136.6	128.2
77.5°	165.1	165.1	165.1	161.8	158.6	153.4	146.3	137.2	128.2	116.5	106.8
80°	151.5	150.8	150.8	146.9	143.7	137.9	130.7	121.7	112.0	99.7	88.7
82.5°	140.5	139.8	138.5	135.3	130.7	124.9	117.8	108.1	97.7	86.7	73.1
85°	128.8	128.2	126.9	123.6	119.1	113.9	106.2	96.4	86.1	73.8	60.8
87.5°	118.4	117.8	115.9	113.9	108.7	102.9	95.1	86.1	75.1	63.4	50.5
90°	111.3	110.0	108.7	106.2	101.6	95.1	87.4	77.7	66.7	55.0	42.1
92.5°	102.9	102.3	100.3	97.7	93.9	87.4	79.6	70.6	59.5	48.5	36.2
95°	94.5	93.9	92.6	90.0	86.1	80.3	73.1	64.1	53.7	42.7	31.7
97.5°	86.7	86.7	84.8	82.9	78.3	73.8	66.7	58.3	48.5	38.8	28.5
100°	80.3	80.3	78.3	75.7	72.5	68.0	60.8	53.1	44.0	35.0	24.6
102.5°	74.4	73.8	72.5	69.9	66.7	62.1	55.7	48.5	40.1	31.1	22.0
105°	69.3	68.6	67.3	64.7	62.1	57.0	51.8	44.7	36.2	27.8	19.4
107.5°	64.1	63.4	62.8	60.2	57.0	52.4	47.3	40.1	33.0	25.2	17.5
110°	59.5	58.9	57.6	55.0	51.8	47.9	42.7	36.9	29.8	22.7	15.5

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CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	55.7	55.0	53.7	51.1	48.5	44.0	39.5	33.0	27.2	20.7	13.6
115°	51.8	51.1	49.8	47.3	44.0	40.1	35.6	30.4	23.9	18.1	12.3
117.5°	47.9	47.3	46.0	44.0	40.8	36.9	32.4	27.2	21.4	16.8	11.0
120°	44.7	43.4	42.1	40.1	36.9	33.7	29.1	24.6	19.4	14.9	9.7
122.5°	41.4	40.1	38.8	36.9	33.7	30.4	25.9	22.0	18.1	13.6	9.1
125°	37.5	36.9	35.6	33.7	30.4	27.2	23.9	20.1	16.2	12.3	7.8
127.5°	34.3	33.7	32.4	29.8	27.2	24.6	21.4	18.1	14.2	10.4	7.1
130°	31.7	30.4	29.1	27.2	25.2	22.7	19.4	16.2	12.9	9.1	6.5
132.5°	28.5	27.2	25.9	24.6	22.7	20.1	17.5	14.2	11.7	8.4	5.8
135°	25.9	24.6	23.3	22.0	20.1	18.1	15.5	12.9	10.4	7.8	5.2
137.5°	22.7	22.0	21.4	20.1	18.1	16.2	14.2	11.0	9.1	7.1	4.5
140°	20.7	20.1	19.4	17.5	16.2	14.2	12.3	9.7	7.8	5.8	3.9
142.5°	18.8	18.1	16.8	15.5	14.2	12.9	10.4	9.1	7.1	5.2	3.9
145°	16.2	15.5	14.9	13.6	12.3	10.4	9.1	7.8	6.5	4.5	3.2
147.5°	14.9	14.2	12.9	11.7	10.4	9.1	8.4	7.1	5.2	3.9	2.6
150°	12.3	11.7	11.0	9.7	9.1	8.4	7.1	5.8	4.5	3.2	2.6
152.5°	10.4	9.7	9.1	9.1	7.8	7.1	5.8	5.2	3.9	3.2	1.9
155°	9.1	9.1	8.4	7.8	6.5	5.8	5.2	3.9	3.2	2.6	1.9
157.5°	7.8	7.1	6.5	6.5	5.8	5.2	3.9	3.2	2.6	2.6	1.9
160°	6.5	5.8	5.8	5.2	4.5	3.9	3.2	3.2	2.6	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: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1178.7	1171.6	1178.0	1186.4	1186.4	1185.1	1183.9	1186.4	1192.9	1190.3	1182.6
5°	1176.7	1169.6	1175.4	1183.9	1183.9	1181.9	1180.6	1182.6	1189.7	1186.4	1179.3
7.5°	1172.8	1166.4	1170.3	1178.0	1178.0	1176.1	1174.8	1177.4	1183.2	1180.0	1172.2
10°	1165.7	1158.6	1163.1	1170.3	1169.6	1168.3	1166.4	1169.6	1174.8	1170.3	1161.2
12.5°	1156.7	1149.5	1153.4	1159.9	1159.3	1156.7	1155.4	1157.3	1161.8	1159.3	1149.5
15°	1144.4	1137.2	1140.5	1147.0	1145.0	1143.1	1140.5	1141.1	1147.0	1142.4	1132.1
17.5°	1129.5	1121.7	1124.3	1130.1	1128.2	1126.2	1123.0	1123.7	1130.1	1123.7	1112.7
20°	1111.4	1102.9	1104.9	1112.0	1108.8	1105.5	1102.3	1102.3	1108.8	1101.6	1089.4
22.5°	1091.9	1083.5	1084.8	1090.0	1087.4	1081.6	1078.3	1080.3	1083.5	1074.5	1061.5
25°	1068.0	1057.0	1058.9	1064.1	1062.2	1054.4	1051.2	1052.5	1051.2	1044.0	1030.4
27.5°	1040.2	1028.5	1029.8	1033.0	1030.4	1023.3	1019.4	1020.1	1017.5	1008.4	992.9
30°	1005.2	999.4	998.7	1000.7	996.8	989.7	985.1	983.8	983.2	970.3	951.5
32.5°	969.6	964.4	961.2	963.8	959.3	952.1	944.4	944.4	937.9	925.6	909.4
35°	933.4	924.9	921.7	923.7	918.5	909.4	902.9	899.7	890.0	874.5	857.0
37.5°	886.8	880.9	877.0	879.0	873.2	866.7	854.4	851.2	840.8	819.4	797.4
40°	836.3	831.7	827.9	829.8	823.3	813.6	802.6	797.4	785.8	761.8	744.4
42.5°	781.9	780.0	775.4	782.5	769.6	759.9	748.9	740.5	728.8	702.9	682.9
45°	724.3	728.8	718.5	720.4	712.0	703.6	691.9	679.6	668.0	643.4	620.7
47.5°	663.4	666.7	659.6	660.9	651.8	644.0	633.7	618.1	605.2	583.8	563.8
50°	600.7	599.4	599.4	598.1	591.0	581.2	570.9	556.7	543.7	524.3	507.5
52.5°	534.0	536.6	537.9	541.1	532.1	526.2	510.0	497.7	488.0	468.0	453.7
55°	469.9	479.0	476.4	477.7	467.3	462.8	449.9	440.1	425.9	414.3	405.2
57.5°	411.7	413.6	414.9	416.8	412.3	403.2	392.9	385.1	374.1	364.4	357.9
60°	355.3	355.3	356.0	359.2	354.7	346.9	339.2	333.3	325.6	319.8	315.9
62.5°	302.3	306.8	307.5	304.9	299.0	295.2	290.0	286.7	281.6	279.6	278.3
65°	253.1	253.1	253.1	254.4	251.1	248.6	245.3	244.7	246.6	244.0	245.3
67.5°	211.7	209.7	208.4	209.1	207.8	206.5	205.8	207.8	211.7	211.7	214.9
70°	176.1	172.2	169.6	169.6	169.6	170.2	172.2	176.1	182.5	185.1	189.6
72.5°	146.9	138.5	134.6	134.6	135.3	137.9	143.7	150.8	156.6	161.8	167.6
75°	119.1	110.7	104.9	104.2	105.5	109.4	117.8	124.3	134.0	141.1	148.2
77.5°	96.4	86.1	79.0	78.3	80.3	86.1	96.4	104.9	115.9	123.6	131.4
80°	77.0	65.4	59.5	55.7	58.9	66.0	77.7	88.0	98.4	108.7	118.4
82.5°	61.5	50.5	41.4	37.5	41.4	51.1	62.1	74.4	84.8	95.8	105.5
85°	48.5	36.9	26.5	22.7	27.2	37.5	49.8	62.1	73.8	84.8	94.5
87.5°	38.2	26.5	16.2	11.0	16.8	27.8	39.5	51.8	64.1	75.1	84.8
90°	29.8	18.8	9.1	1.3	9.7	20.1	31.7	43.4	55.7	66.7	76.4
92.5°	25.2	14.2	5.2	0.0	5.8	14.9	25.9	37.5	48.5	59.5	69.3
95°	21.4	11.7	3.9	0.0	3.9	11.7	21.4	31.7	42.7	53.7	63.4
97.5°	18.1	9.1	2.6	0.0	2.6	9.1	17.5	27.8	37.5	47.9	57.0
100°	15.5	7.8	1.9	0.0	1.9	7.1	14.9	23.9	33.7	43.4	51.8
102.5°	13.6	6.5	1.3	0.0	1.3	5.8	12.3	20.7	29.1	38.2	46.6
105°	11.7	5.2	1.3	0.0	0.6	4.5	10.4	18.1	25.9	34.3	42.1
107.5°	10.4	4.5	1.3	0.0	0.6	3.9	9.1	15.5	23.3	30.4	37.5
110°	9.1	3.9	1.3	0.0	0.6	2.6	7.8	13.6	20.1	27.2	34.3

TEST NUMBER: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.8	3.2	0.6	0.0	0.0	1.9	6.5	11.7	17.5	24.6	30.4
115°	7.1	3.2	0.6	0.0	0.0	1.3	5.2	10.4	15.5	22.0	27.2
117.5°	6.5	2.6	0.6	0.0	0.6	1.3	4.5	9.1	13.6	18.8	24.6
120°	5.8	2.6	0.6	0.0	0.6	0.6	3.2	7.8	11.7	16.8	21.4
122.5°	5.2	2.6	0.6	0.0	0.6	0.6	2.6	6.5	10.4	14.9	18.8
125°	4.5	1.9	1.3	0.6	0.6	0.6	1.9	5.2	9.1	12.3	16.8
127.5°	4.5	1.9	1.3	0.6	0.6	0.6	1.3	4.5	7.1	11.0	14.9
130°	3.9	1.9	1.3	0.6	0.6	0.6	0.6	3.2	6.5	9.1	12.3
132.5°	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.9	4.5	7.8	10.4
135°	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.3	3.2	5.8	8.4
137.5°	2.6	1.3	1.3	0.6	0.6	0.6	0.6	0.6	2.6	4.5	6.5
140°	2.6	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.9	3.2	5.2
142.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.3	2.6	3.9
145°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	2.6
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: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1180.0	1167.7	1174.1	1172.2	1174.8	1180.0	1179.3	1178.0	1178.0	1176.1	1173.5
5°	1176.1	1164.4	1170.3	1167.0	1170.3	1174.8	1174.1	1172.2	1173.5	1170.3	1167.0
7.5°	1168.3	1158.0	1163.1	1160.6	1163.1	1167.7	1165.7	1165.1	1166.4	1161.2	1159.3
10°	1159.3	1147.6	1153.4	1150.2	1153.4	1156.7	1155.4	1152.8	1155.4	1150.2	1148.3
12.5°	1145.0	1135.3	1139.2	1137.9	1139.8	1143.1	1140.5	1138.5	1139.8	1135.3	1131.4
15°	1129.5	1119.8	1123.0	1121.1	1122.4	1126.2	1121.7	1121.1	1119.8	1115.2	1113.9
17.5°	1109.4	1100.4	1103.6	1100.4	1102.3	1101.0	1100.4	1097.1	1097.1	1091.9	1088.1
20°	1084.8	1077.1	1075.1	1072.5	1075.1	1072.5	1068.6	1066.0	1065.4	1060.2	1057.0
22.5°	1056.3	1047.3	1048.6	1041.5	1042.1	1038.2	1031.7	1029.2	1026.6	1020.7	1016.2
25°	1022.0	1013.0	1006.5	1002.0	996.1	995.5	987.1	980.6	980.0	972.8	972.2
27.5°	983.2	972.8	967.7	956.7	949.5	943.7	936.6	930.1	926.9	919.1	913.9
30°	938.5	926.9	913.9	906.2	895.2	890.6	878.3	870.6	868.0	859.6	855.7
32.5°	888.1	875.8	865.4	850.5	838.2	831.7	819.4	811.7	808.4	799.4	794.2
35°	833.0	819.4	807.1	792.9	783.2	772.2	757.3	749.5	742.4	739.2	735.3
37.5°	775.4	760.5	746.3	732.1	723.6	710.7	697.8	692.6	684.2	680.9	677.0
40°	715.9	701.0	687.4	673.8	664.1	652.4	640.8	638.9	629.8	626.6	624.0
42.5°	657.0	641.4	625.9	616.2	609.1	597.4	589.7	587.7	580.0	578.0	578.0
45°	603.9	584.5	571.5	563.1	557.3	547.6	541.1	539.8	533.3	532.1	532.1
47.5°	546.9	528.8	519.1	513.9	508.8	501.6	497.7	497.7	491.3	490.0	489.3
50°	493.9	477.0	469.9	464.7	464.1	458.9	455.7	454.4	454.4	449.9	450.5
52.5°	443.4	435.0	429.1	425.9	422.0	418.8	416.2	416.2	414.3	411.0	412.3
55°	396.8	387.1	387.7	385.1	383.2	381.2	381.9	378.0	377.4	374.8	376.7
57.5°	350.2	350.2	348.9	346.9	343.7	345.0	345.0	345.0	341.8	339.8	341.8
60°	310.7	312.6	309.4	311.3	310.0	310.7	309.4	309.4	307.5	306.8	307.5
62.5°	275.7	279.0	277.7	280.3	279.0	279.6	280.9	278.3	277.0	275.7	277.0
65°	244.7	248.6	247.9	249.8	250.5	251.1	251.8	250.5	249.2	247.9	247.3
67.5°	217.5	221.4	224.0	224.6	225.2	227.2	226.5	225.2	224.0	222.0	221.4
70°	192.9	198.1	201.3	202.6	205.2	203.9	203.9	203.2	201.9	200.0	199.4
72.5°	172.2	178.0	181.2	182.5	185.1	185.1	184.5	183.8	182.5	180.6	179.9
75°	154.0	159.2	163.8	166.3	168.3	168.3	167.6	167.0	165.7	164.4	163.8
77.5°	139.8	144.3	148.2	151.5	152.8	153.4	152.8	151.5	151.5	150.8	150.2
80°	125.6	130.7	134.6	137.9	139.8	139.8	139.2	139.8	138.5	137.9	137.2
82.5°	113.3	119.1	123.6	126.9	128.2	128.8	128.2	128.8	127.5	127.5	127.5
85°	102.3	108.1	113.3	115.9	117.8	118.4	118.4	118.4	117.8	117.8	117.8
87.5°	93.2	99.0	104.2	106.8	108.7	109.4	109.4	110.0	108.7	108.7	108.7
90°	84.8	90.6	95.8	98.4	100.3	101.6	101.6	102.3	101.6	101.0	101.0
92.5°	77.0	83.5	88.7	91.3	93.2	95.1	95.1	95.8	94.5	94.5	94.5
95°	70.6	77.0	81.6	84.8	86.7	88.0	88.7	88.7	88.0	88.0	88.0
97.5°	64.7	70.6	75.1	78.3	80.3	80.9	81.6	82.2	81.6	81.6	81.6
100°	58.9	64.7	69.3	71.8	74.4	75.1	75.7	76.4	76.4	75.7	75.7
102.5°	53.7	59.5	63.4	66.7	68.6	69.9	70.6	70.6	70.6	70.6	70.6
105°	48.5	54.4	58.3	61.5	63.4	64.7	65.4	66.0	66.0	65.4	65.4
107.5°	44.0	49.2	53.7	56.3	58.9	60.2	60.8	60.8	61.5	60.8	60.8
110°	39.5	45.3	49.2	51.8	54.4	55.7	56.3	57.0	57.0	57.0	57.0

TEST NUMBER: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	36.2	40.8	44.7	47.3	49.8	51.1	51.8	52.4	53.1	52.4	52.4
115°	32.4	36.9	40.8	43.4	45.3	46.6	47.9	48.5	48.5	49.2	48.5
117.5°	29.1	33.0	36.9	39.5	41.4	43.4	44.0	44.7	45.3	44.7	44.7
120°	25.9	29.8	33.0	35.6	37.5	39.5	40.1	40.8	41.4	40.8	40.8
122.5°	23.3	26.5	29.8	32.4	34.3	35.6	36.9	36.9	37.5	37.5	37.5
125°	20.7	23.9	26.5	29.1	31.1	32.4	33.0	33.7	33.7	34.3	34.3
127.5°	18.1	20.7	23.9	25.9	27.8	29.1	29.8	30.4	30.4	31.1	31.1
130°	15.5	18.1	20.7	22.7	24.6	25.9	26.5	27.2	27.8	27.8	27.8
132.5°	13.6	16.2	18.1	20.1	21.4	22.7	23.9	24.6	24.6	24.6	24.6
135°	11.0	13.6	15.5	17.5	18.8	20.1	20.7	22.0	22.0	22.0	22.0
137.5°	9.1	11.7	13.6	14.9	16.2	17.5	18.1	18.8	19.4	19.4	19.4
140°	7.1	9.1	11.0	12.9	14.2	14.9	16.2	16.2	16.8	16.8	16.8
142.5°	5.2	7.1	8.4	10.4	11.7	12.9	13.6	14.2	14.2	14.2	14.2
145°	3.9	5.2	6.5	7.8	9.7	10.4	11.0	11.7	12.3	12.3	12.3
147.5°	2.6	3.9	4.5	5.8	7.1	8.4	9.1	9.7	10.4	10.4	10.4
150°	1.9	2.6	3.9	4.5	5.2	6.5	7.8	7.8	8.4	8.4	7.8
152.5°	1.3	1.9	2.6	3.2	3.9	4.5	5.8	5.8	6.5	6.5	6.5
155°	1.3	1.3	1.3	1.9	2.6	3.2	3.9	4.5	4.5	4.5	4.5
157.5°	1.3	1.3	1.3	1.3	1.3	1.9	2.6	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: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1175.4	1176.7	1176.7	1175.4	1174.8	1177.4	1174.1	1161.8	1165.7	1167.0	1170.9
5°	1169.6	1170.9	1170.9	1170.9	1169.6	1172.2	1169.0	1156.7	1161.2	1163.1	1165.7
7.5°	1161.2	1161.8	1163.1	1162.5	1161.2	1165.1	1161.8	1149.5	1152.8	1156.0	1159.3
10°	1150.2	1150.2	1150.8	1152.1	1150.8	1154.1	1150.8	1139.8	1143.1	1145.0	1148.9
12.5°	1135.3	1136.6	1137.2	1136.6	1136.0	1138.5	1137.2	1126.9	1128.2	1132.1	1136.0
15°	1115.2	1115.2	1118.5	1117.2	1117.2	1119.8	1121.1	1109.4	1111.4	1117.2	1121.1
17.5°	1090.6	1091.3	1093.9	1095.2	1094.5	1099.1	1099.7	1090.6	1090.0	1097.1	1101.0
20°	1058.9	1060.2	1063.5	1066.0	1066.0	1071.2	1073.2	1067.3	1068.0	1075.8	1077.1
22.5°	1020.1	1020.1	1025.9	1029.8	1033.0	1036.3	1042.1	1036.9	1036.9	1047.3	1053.1
25°	972.2	976.7	978.7	986.4	991.0	1000.0	1005.2	1005.9	1006.5	1016.2	1020.1
27.5°	919.1	920.4	926.2	935.3	940.5	948.9	958.6	960.5	963.8	976.7	982.6
30°	858.9	862.8	865.4	878.3	885.5	896.5	908.8	913.3	915.9	933.4	940.5
32.5°	797.4	798.7	809.7	816.9	825.3	836.9	851.2	859.6	864.7	882.9	893.2
35°	735.9	738.5	747.6	756.7	765.1	776.7	791.6	803.3	812.3	828.5	842.1
37.5°	679.6	686.1	688.0	697.1	703.6	715.2	725.6	742.4	751.5	768.3	785.8
40°	629.1	631.1	632.4	641.4	646.0	657.0	671.9	682.9	695.2	707.5	728.2
42.5°	579.3	580.6	582.5	587.7	592.9	600.7	611.7	622.7	635.6	653.7	667.3
45°	533.3	534.6	535.9	539.2	543.7	550.8	557.9	565.7	578.7	594.2	608.4
47.5°	490.6	493.2	493.2	493.9	497.1	502.9	508.1	517.8	524.9	533.3	549.5
50°	449.9	451.8	452.4	452.4	454.4	458.3	459.6	466.0	472.5	480.3	491.9
52.5°	411.7	411.7	411.0	413.6	413.6	416.2	416.8	420.7	425.3	433.7	438.8
55°	375.4	375.4	377.4	376.1	376.1	377.4	376.7	377.4	381.2	386.4	390.9
57.5°	340.5	339.8	341.8	340.5	339.8	341.1	342.4	339.8	340.5	345.6	345.6
60°	305.5	306.2	308.1	306.8	306.8	306.8	305.5	304.2	302.9	306.2	307.5
62.5°	277.7	275.7	277.7	275.7	277.0	276.4	275.1	272.5	273.1	271.9	270.6
65°	248.6	248.6	249.2	247.3	248.6	248.6	246.6	246.0	242.1	240.8	237.5
67.5°	223.3	223.3	224.0	222.7	222.7	223.3	221.4	219.4	215.5	213.6	209.1
70°	201.3	201.3	201.3	200.7	200.7	200.7	199.4	196.8	192.9	189.6	183.8
72.5°	181.2	181.9	181.2	181.2	183.2	181.2	179.3	176.7	173.5	167.0	161.8
75°	165.1	165.7	165.1	165.1	165.1	164.4	163.8	159.9	156.0	150.8	143.0
77.5°	150.8	150.8	151.5	150.8	150.8	150.2	148.2	145.0	140.5	135.9	126.9
80°	137.2	137.9	138.5	139.2	137.9	137.2	135.3	132.7	126.9	121.7	112.6
82.5°	127.5	126.9	127.5	128.2	126.9	126.2	124.3	121.0	116.5	109.4	100.3
85°	117.8	117.2	117.2	117.8	117.2	115.9	113.9	110.7	106.2	99.0	90.0
87.5°	108.1	108.7	109.4	108.7	108.1	106.8	104.9	101.6	96.4	90.6	80.9
90°	101.0	101.0	101.0	101.0	100.3	99.0	97.1	93.2	88.7	81.6	73.1
92.5°	94.5	94.5	94.5	94.5	93.9	91.9	90.0	86.7	81.6	74.4	66.7
95°	88.0	88.7	88.0	88.0	86.7	86.1	82.9	79.6	75.1	68.0	59.5
97.5°	80.9	81.6	80.9	80.9	80.3	79.0	77.0	73.1	68.6	62.1	54.4
100°	75.7	75.7	75.1	75.1	74.4	73.1	70.6	67.3	62.8	56.3	48.5
102.5°	69.9	70.6	69.9	69.9	68.6	67.3	65.4	62.1	57.6	51.1	44.0
105°	65.4	65.4	64.7	64.7	63.4	62.1	60.2	56.3	52.4	46.6	39.5
107.5°	60.8	60.8	60.2	60.2	58.9	57.6	55.0	51.8	47.9	42.1	35.6
110°	56.3	56.3	56.3	55.7	54.4	52.4	50.5	47.3	43.4	38.2	31.7

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CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	53.1	52.4	51.8	51.1	49.8	48.5	46.0	42.7	38.8	34.3	28.5
115°	48.5	48.5	47.9	47.3	46.0	44.0	42.1	39.5	35.6	30.4	25.2
117.5°	44.7	44.7	44.0	43.4	42.1	40.1	38.2	35.6	31.7	27.2	22.7
120°	40.8	40.8	40.1	39.5	38.2	36.2	35.0	31.7	28.5	23.9	20.1
122.5°	37.5	36.9	36.9	35.6	35.0	33.0	31.1	28.5	25.2	21.4	17.5
125°	33.7	33.7	33.0	32.4	31.7	29.8	27.8	25.2	22.0	18.8	15.5
127.5°	30.4	30.4	29.8	29.1	28.5	26.5	24.6	22.7	19.4	16.2	12.9
130°	27.2	27.2	26.5	25.9	25.2	23.3	22.0	19.4	16.8	14.2	11.0
132.5°	24.6	24.6	23.9	23.3	22.0	20.7	19.4	16.8	14.9	12.3	9.7
135°	22.0	21.4	21.4	20.7	19.4	18.1	16.8	14.9	12.3	10.4	7.8
137.5°	19.4	18.8	18.1	17.5	16.8	15.5	14.2	12.9	11.0	8.4	6.5
140°	16.8	16.2	16.2	15.5	14.2	13.6	12.3	10.4	9.1	7.1	5.2
142.5°	14.2	14.2	13.6	12.9	12.3	11.7	10.4	9.1	7.1	5.8	3.9
145°	12.3	11.7	11.7	11.0	10.4	9.1	8.4	7.1	5.8	4.5	3.2
147.5°	9.7	9.7	9.7	9.1	8.4	7.8	7.1	5.8	4.5	3.2	1.9
150°	7.8	7.8	7.8	7.1	6.5	5.8	5.2	4.5	3.2	1.9	1.3
152.5°	6.5	6.5	5.8	5.8	5.2	4.5	3.9	3.2	1.9	1.3	1.3
155°	4.5	4.5	4.5	3.9	3.9	3.2	2.6	1.9	1.3	1.3	1.3
157.5°	3.2	3.2	3.2	2.6	2.6	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

TEST NUMBER: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1169.0	1168.3	1173.5	1173.5	1167.7	1176.7	1186.4
5°	1165.1	1164.4	1169.6	1169.6	1164.4	1173.5	1183.9
7.5°	1157.3	1158.0	1163.1	1164.4	1158.0	1166.4	1177.4
10°	1148.9	1148.3	1154.1	1155.4	1150.2	1158.0	1168.3
12.5°	1135.3	1135.3	1141.1	1143.1	1137.9	1147.0	1156.7
15°	1121.1	1121.1	1125.0	1128.2	1123.7	1132.1	1141.8
17.5°	1102.9	1102.3	1106.2	1110.1	1105.5	1114.6	1125.0
20°	1079.6	1079.6	1084.2	1088.7	1085.5	1093.9	1105.5
22.5°	1055.0	1052.5	1060.2	1063.5	1061.5	1069.9	1081.6
25°	1024.0	1023.3	1031.1	1035.6	1033.0	1042.1	1052.5
27.5°	990.3	989.7	997.4	1003.3	1002.0	1010.4	1022.0
30°	949.5	952.8	959.9	969.6	966.4	975.4	987.7
32.5°	906.8	910.1	918.5	928.8	929.5	936.6	948.9
35°	855.7	864.1	869.9	883.5	886.1	893.2	906.2
37.5°	802.0	811.7	824.0	834.3	839.5	845.3	860.2
40°	741.8	756.0	769.6	781.9	788.4	794.2	808.4
42.5°	687.4	698.4	711.3	723.6	735.3	740.5	755.4
45°	625.9	638.9	650.5	665.4	677.0	682.9	697.8
47.5°	565.7	578.7	594.2	604.5	616.8	622.7	636.9
50°	508.1	519.8	532.7	545.0	555.4	560.5	572.8
52.5°	451.1	463.4	475.7	483.5	494.5	498.4	508.8
55°	400.7	409.1	420.1	424.6	435.6	438.2	445.3
57.5°	352.1	357.9	361.8	369.6	377.4	383.2	391.6
60°	308.1	310.7	313.3	317.8	324.3	326.2	329.5
62.5°	268.6	268.0	273.1	274.4	275.1	281.6	278.3
65°	233.7	234.3	229.8	227.8	230.4	232.4	231.1
67.5°	204.5	200.7	196.8	192.2	188.4	190.3	188.4
70°	176.1	172.8	166.3	159.9	157.3	153.4	151.5
72.5°	153.4	145.6	139.2	130.7	126.2	121.7	118.4
75°	135.9	124.9	115.9	106.8	100.3	93.9	92.6
77.5°	117.8	107.4	97.1	87.4	77.7	70.6	68.0
80°	103.6	93.9	81.6	69.9	59.5	50.5	47.3
82.5°	90.6	80.3	68.0	55.7	44.0	34.3	30.4
85°	79.6	68.6	56.3	44.0	32.4	22.0	16.8
87.5°	71.2	58.9	46.6	35.0	22.7	12.3	6.5
90°	63.4	51.8	40.1	27.8	16.2	6.5	0.0
92.5°	56.3	45.3	33.7	22.7	12.3	3.9	0.6
95°	49.8	40.1	28.5	18.1	9.1	2.6	0.6
97.5°	44.7	35.0	24.6	14.9	7.1	1.9	0.6
100°	40.1	30.4	21.4	12.3	5.8	1.3	0.6
102.5°	35.6	27.2	18.1	10.4	4.5	0.6	0.6
105°	31.7	23.9	15.5	9.1	3.9	0.6	0.6
107.5°	28.5	21.4	13.6	7.8	2.6	0.6	0.6
110°	25.2	18.1	11.7	6.5	1.9	0.6	0.6



TEST NUMBER: P1213753

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	22.7	16.2	10.4	5.2	1.3	0.6	0.6
115°	20.1	14.2	9.1	4.5	1.3	0.6	0.6
117.5°	17.5	12.3	7.8	3.2	0.6	0.6	0.6
120°	15.5	11.0	6.5	2.6	0.6	0.6	0.6
122.5°	13.6	9.1	5.2	1.9	0.6	0.6	0.6
125°	11.7	7.8	4.5	1.3	0.6	0.6	0.6
127.5°	9.7	6.5	3.2	1.3	0.6	0.6	0.6
130°	8.4	5.2	2.6	0.6	0.6	0.6	0.6
132.5°	7.1	3.9	1.9	0.6	0.6	0.6	0.6
135°	5.8	3.2	1.3	0.6	0.6	0.6	0.6
137.5°	4.5	2.6	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°	2.6	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)