

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: P1214104

Luminaire Tested: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214104
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

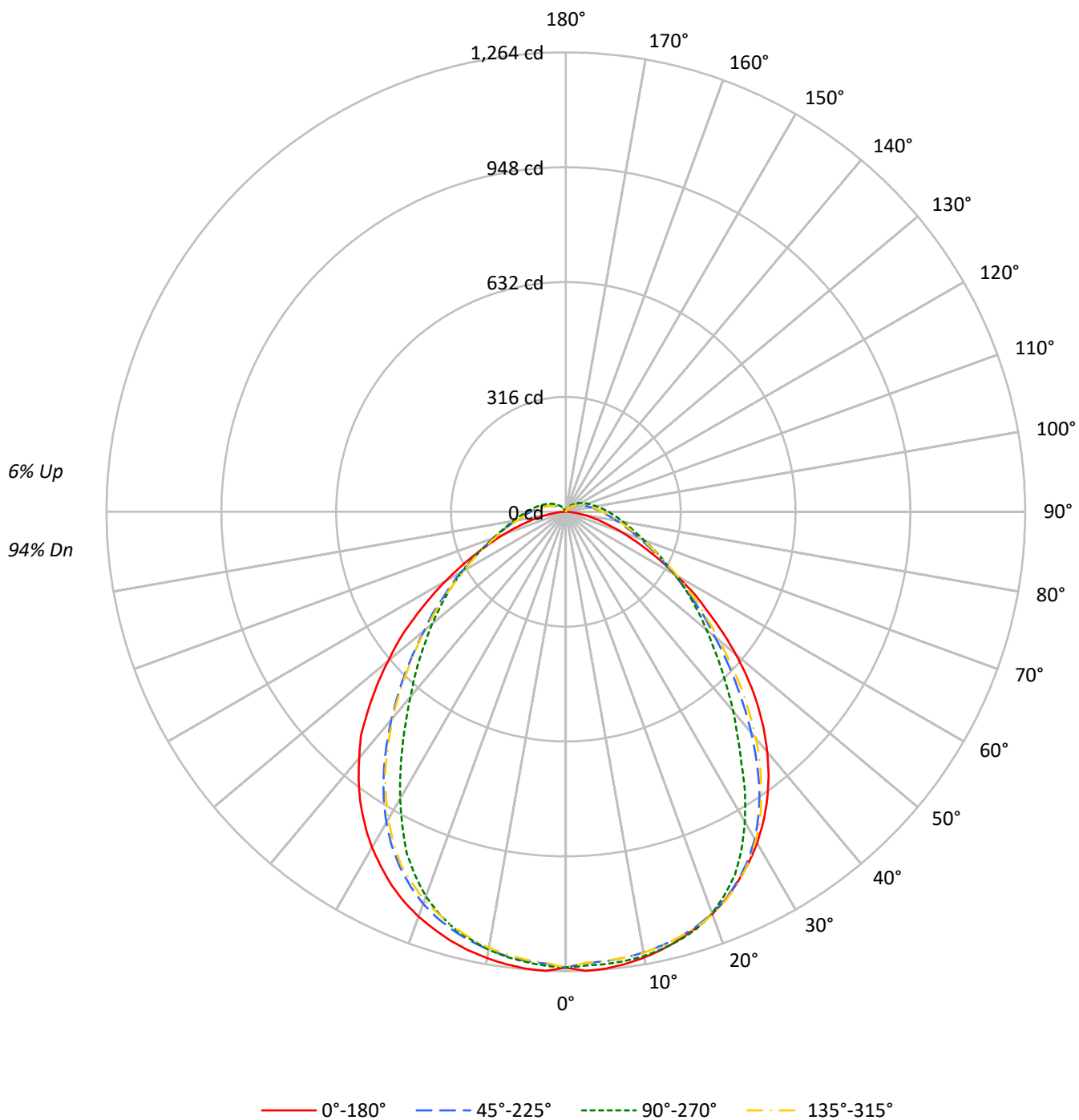
Lumens per Lamp: N/A
Luminaire Lumens: 3174.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	10135	10135	10135	10135
5°	10208	9813	10208	9769
10°	10162	9552	10179	9419
15°	10096	9266	10142	9025
20°	10019	8899	10078	8524
25°	9858	8355	9967	7863
30°	9649	7555	9775	6994
35°	9324	6574	9503	6122
40°	8857	5750	9091	5335
45°	8242	4999	8509	4712
50°	7400	4393	7726	4170
55°	6401	3879	6866	3683
60°	5383	3405	5871	3210
65°	4414	3011	4858	2791
70°	3512	2672	3932	2472
75°	2760	2467	3107	2269
80°	1992	2380	2344	2176
85°	1223	2394	1646	2201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 8509 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.7
10°-20°	340.9	10.7
20°-30°	505.3	15.9
30°-40°	561.4	17.7
40°-50°	508.9	16.0
50°-60°	394.3	12.4
60°-70°	267.8	8.4
70°-80°	170.4	5.4
80°-90°	108.9	3.4
90°-100°	73.4	2.3
100°-110°	50.3	1.6
110°-120°	33.6	1.1
120°-130°	20.9	0.7
130°-140°	11.5	0.4
140°-150°	5.4	0.2
150°-160°	2.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	965.2	30.4
0°-40°	1526.5	48.1
0°-60°	2429.7	76.6
0°-90°	2976.8	93.8
90°-120°	157.3	5.0
90°-150°	195.1	6.1
90°-180°	197.0	6.2
0°-180°	3174.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1254	1254	1254	1254	1254	
5°	1262	1249	1262	1244	1262	120
15°	1217	1219	1222	1187	1217	343
25°	1122	1101	1134	1036	1122	517
35°	966	842	984	784	966	602
45°	744	602	768	567	744	571
55°	475	423	509	402	475	427
65°	246	284	271	264	246	247
75°	99	190	111	174	99	106
85°	18	137	24	126	18	21
90°	0	118	1	108	0	1
95°	1	101	0	94	1	1
105°	1	74	0	70	1	1
115°	1	56	0	52	1	1
125°	1	41	1	37	1	1
135°	1	29	1	24	1	1
145°	1	19	1	13	1	0
155°	1	10	1	5	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°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1264.5	1263.1	1261.8	1259.7	1261.8	1267.3	1263.8	1256.2	1254.9	1242.5	1248.0
5°	1261.8	1259.7	1258.3	1256.2	1259.0	1265.9	1262.5	1255.6	1253.5	1241.8	1248.0
7.5°	1254.9	1253.5	1251.4	1251.4	1254.2	1261.1	1258.3	1250.7	1249.4	1237.6	1244.5
10°	1245.2	1244.5	1243.1	1243.1	1245.9	1254.2	1250.7	1243.8	1242.5	1231.4	1239.0
12.5°	1232.8	1233.5	1231.4	1231.4	1235.6	1243.8	1241.1	1233.5	1232.1	1222.4	1230.0
15°	1216.9	1217.6	1216.2	1216.9	1221.1	1230.7	1227.3	1220.4	1219.0	1211.4	1217.6
17.5°	1199.0	1199.7	1199.7	1199.0	1203.8	1213.5	1210.7	1204.5	1202.4	1196.2	1203.8
20°	1178.3	1178.3	1178.3	1178.3	1183.8	1193.5	1190.0	1185.2	1181.1	1176.2	1182.4
22.5°	1152.8	1152.1	1152.8	1154.8	1160.4	1167.9	1165.9	1160.4	1154.1	1151.4	1156.2
25°	1121.7	1123.8	1124.5	1126.6	1133.5	1139.7	1137.6	1132.1	1122.4	1120.3	1121.7
27.5°	1089.3	1090.7	1092.8	1092.1	1101.7	1107.9	1103.8	1099.0	1085.2	1083.1	1081.7
30°	1052.7	1054.8	1056.2	1055.5	1063.1	1070.0	1065.8	1059.6	1041.0	1039.6	1028.6
32.5°	1011.3	1013.4	1014.8	1014.8	1025.8	1028.6	1021.0	1012.0	992.0	987.2	977.5
35°	965.8	967.9	968.6	968.6	979.6	978.9	969.3	956.8	934.8	928.6	912.0
37.5°	916.8	918.2	918.9	923.0	927.9	923.7	911.3	895.4	878.9	861.6	843.7
40°	861.6	863.7	865.1	867.9	872.7	867.9	849.9	830.6	812.7	793.3	775.4
42.5°	805.1	811.3	809.9	809.2	812.0	798.9	785.1	763.0	745.1	725.1	707.1
45°	743.7	743.0	746.4	747.8	747.1	736.1	716.8	696.8	678.8	658.1	643.0
47.5°	678.8	678.1	680.9	682.3	678.1	666.4	651.2	628.5	613.3	595.4	583.6
50°	610.5	610.5	614.7	610.5	608.5	596.7	584.3	561.6	549.8	534.0	527.1
52.5°	542.2	548.4	544.3	542.9	540.9	529.1	519.5	500.8	491.2	484.3	476.0
55°	474.6	481.5	478.8	476.7	476.0	466.4	457.4	443.6	437.4	432.5	427.7
57.5°	417.4	416.7	415.3	413.2	413.9	406.3	397.4	389.8	387.0	384.9	386.3
60°	351.1	356.7	354.6	355.3	356.0	354.6	347.0	342.2	342.9	343.6	345.6
62.5°	296.6	301.5	304.9	302.2	303.5	305.6	301.5	300.1	302.9	305.6	308.4
65°	246.3	251.1	254.6	253.9	258.0	262.1	261.5	262.8	269.0	272.5	275.9
67.5°	200.8	205.6	210.4	211.1	217.3	223.5	226.3	231.1	238.0	242.8	247.0
70°	161.4	165.6	171.1	174.5	182.8	191.1	195.9	205.6	209.7	216.6	219.4
72.5°	126.2	129.7	137.3	145.6	152.5	162.8	172.5	180.7	187.0	194.5	198.0
75°	98.7	100.0	108.3	118.0	127.6	139.4	149.7	158.7	166.9	174.5	180.1
77.5°	72.4	74.5	82.1	95.2	106.2	118.7	130.4	140.0	149.0	156.6	164.2
80°	50.4	54.5	62.8	75.9	88.3	102.1	113.1	124.2	133.8	141.4	149.0
82.5°	32.4	35.9	47.6	60.7	73.8	87.6	99.3	110.4	120.7	129.0	135.9
85°	17.9	22.8	34.5	48.3	61.4	75.2	87.6	98.7	109.0	116.6	123.5
87.5°	6.9	13.8	24.8	37.9	51.1	64.2	77.3	87.6	98.0	106.2	112.4
90°	0.0	8.3	18.6	31.7	44.8	57.9	70.4	81.4	91.1	98.7	105.5
92.5°	0.7	5.5	14.5	25.5	37.9	50.4	62.1	73.1	82.8	90.4	96.6
95°	0.7	4.1	11.7	22.1	33.1	44.8	55.9	66.2	75.2	82.8	89.0
97.5°	0.7	2.8	9.7	19.3	29.0	40.7	51.1	60.7	69.0	76.6	81.4
100°	0.7	2.8	8.3	16.6	26.2	36.6	46.2	55.9	63.5	69.7	75.2
102.5°	0.7	2.1	6.9	14.5	23.5	32.4	42.1	51.1	57.9	64.2	69.7
105°	0.7	2.1	6.2	12.4	20.7	29.7	37.9	46.2	53.8	59.3	64.2
107.5°	0.7	1.4	5.5	10.3	17.9	26.9	35.2	42.1	49.0	54.5	59.3
110°	0.7	1.4	4.8	9.7	15.9	24.1	31.7	38.6	44.8	50.4	54.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	1.4	4.1	9.0	14.5	21.4	29.0	35.2	41.4	46.2	50.4
115°	0.7	1.4	4.1	8.3	13.1	18.6	25.5	32.4	37.3	42.8	46.2
117.5°	0.7	1.4	3.4	6.9	12.4	17.2	23.5	29.0	34.5	39.3	42.8
120°	0.7	1.4	3.4	6.2	11.0	15.9	20.7	26.2	31.7	35.2	38.6
122.5°	0.7	1.4	2.8	6.2	9.7	14.5	18.6	23.5	28.3	32.4	35.9
125°	0.7	1.4	2.8	5.5	9.0	13.1	17.2	20.7	25.5	29.0	32.4
127.5°	0.7	1.4	2.8	4.8	8.3	11.7	15.9	19.3	22.8	26.2	29.0
130°	0.7	1.4	2.1	4.1	7.6	10.3	13.8	17.9	20.7	23.5	26.2
132.5°	0.7	1.4	2.1	4.1	6.2	9.0	12.4	15.9	18.6	21.4	23.5
135°	0.7	1.4	2.1	3.4	5.5	8.3	10.3	13.8	16.6	19.3	21.4
137.5°	0.7	1.4	2.1	3.4	4.8	6.9	9.0	11.7	14.5	16.6	19.3
140°	0.7	1.4	2.1	2.8	4.1	6.2	8.3	9.7	12.4	14.5	16.6
142.5°	0.7	1.4	2.1	2.8	4.1	5.5	6.9	8.3	10.3	12.4	14.5
145°	0.7	1.4	2.1	2.8	3.4	4.8	6.2	7.6	8.3	10.3	11.7
147.5°	0.7	1.4	2.1	2.8	2.8	4.1	5.5	6.2	7.6	8.3	9.7
150°	0.7	1.4	2.1	2.1	2.8	3.4	4.8	5.5	6.2	7.6	8.3
152.5°	0.7	1.4	2.1	2.1	2.8	3.4	4.1	4.8	5.5	6.2	6.9
155°	0.7	1.4	2.1	2.1	2.1	2.8	3.4	4.1	4.8	5.5	6.2
157.5°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.4	4.1	4.1	4.8
160°	1.4	1.4	1.4	2.1	2.1	2.1	2.8	2.8	3.4	3.4	4.1
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°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1246.6	1248.7	1254.9	1254.9	1253.5	1252.1	1252.1	1250.0	1251.4	1254.2	1252.8
5°	1246.6	1248.7	1254.9	1254.9	1253.5	1252.1	1251.4	1249.4	1251.4	1254.2	1252.8
7.5°	1242.5	1245.2	1251.4	1251.4	1250.0	1249.4	1248.0	1246.6	1248.7	1251.4	1250.0
10°	1236.9	1239.7	1245.9	1245.9	1244.5	1244.5	1242.5	1241.1	1243.8	1245.9	1245.2
12.5°	1228.7	1232.1	1237.6	1236.9	1235.6	1236.2	1234.2	1231.4	1234.2	1236.2	1236.9
15°	1216.9	1221.1	1226.6	1225.2	1223.1	1224.5	1221.1	1219.0	1221.1	1225.2	1224.5
17.5°	1201.8	1204.5	1208.6	1208.6	1206.6	1205.2	1203.8	1201.8	1203.1	1205.9	1206.6
20°	1180.4	1183.8	1185.9	1183.8	1183.1	1181.1	1178.3	1176.2	1179.0	1183.1	1183.8
22.5°	1152.1	1152.8	1157.6	1152.8	1149.3	1148.6	1145.9	1141.7	1145.9	1149.3	1150.0
25°	1116.9	1120.3	1118.3	1110.0	1110.0	1104.5	1103.1	1101.0	1101.7	1107.9	1110.7
27.5°	1072.1	1073.4	1067.9	1061.0	1054.8	1051.4	1046.5	1047.2	1047.2	1055.5	1058.3
30°	1023.1	1015.5	1010.7	999.6	994.8	986.5	985.1	985.1	983.8	987.9	1000.3
32.5°	964.4	954.1	946.5	936.2	927.9	919.6	915.5	917.5	916.8	927.2	931.3
35°	900.3	894.1	878.2	865.1	860.3	847.8	847.8	841.6	845.8	857.5	862.3
37.5°	832.7	823.0	809.9	795.4	792.0	782.3	778.9	775.4	784.4	786.4	791.3
40°	763.7	754.7	742.3	728.5	728.5	716.8	716.8	716.8	717.5	721.6	730.6
42.5°	698.1	688.5	677.5	667.8	666.4	657.4	657.4	656.8	658.1	661.6	669.9
45°	634.7	627.1	615.4	610.5	611.2	601.6	603.6	601.6	604.3	607.8	610.5
47.5°	576.0	571.2	566.4	559.5	557.4	556.7	553.3	550.5	555.3	555.3	559.5
50°	521.5	518.8	516.0	511.9	512.6	509.8	505.7	505.7	509.1	509.8	512.6
52.5°	473.9	470.5	467.0	467.7	468.4	467.0	465.0	462.9	465.0	466.4	469.8
55°	426.3	423.6	427.0	425.6	427.0	425.6	424.3	422.9	426.3	424.3	427.7
57.5°	383.6	386.3	387.7	384.9	387.0	385.6	386.3	384.3	387.0	388.4	387.7
60°	344.2	348.4	346.3	347.0	349.8	348.4	345.6	347.7	350.5	351.1	350.5
62.5°	308.4	313.2	315.3	313.9	314.6	313.2	315.3	312.5	316.0	317.3	315.3
65°	275.9	281.5	282.8	282.8	282.8	281.5	283.5	284.2	285.6	285.6	284.2
67.5°	248.4	253.2	254.6	255.9	254.6	253.2	253.2	253.9	256.6	258.0	256.6
70°	223.5	228.3	229.0	229.0	229.7	231.1	228.3	229.7	231.8	232.5	231.8
72.5°	202.1	207.0	208.3	207.7	208.3	209.0	209.0	207.7	209.7	211.1	211.1
75°	184.9	187.6	189.0	189.0	189.7	190.4	190.4	189.7	191.1	191.8	192.5
77.5°	169.0	171.1	173.2	173.2	173.8	173.2	174.5	174.5	175.2	175.9	176.6
80°	153.2	155.9	157.3	158.0	159.4	160.0	160.0	160.0	160.7	161.4	161.4
82.5°	140.7	142.8	144.9	146.9	146.9	147.6	147.6	147.6	148.3	148.3	149.0
85°	128.3	131.1	133.1	134.5	135.2	135.9	135.9	136.6	136.6	136.6	137.3
87.5°	117.3	120.7	122.1	123.5	124.2	125.6	125.6	125.6	126.2	126.2	126.2
90°	109.7	113.1	114.5	115.9	116.6	117.3	117.3	118.0	118.0	118.7	118.7
92.5°	100.7	104.2	106.9	106.9	107.6	109.0	108.3	108.3	109.0	109.7	109.7
95°	93.8	96.6	98.7	99.3	100.0	100.0	100.0	100.7	100.0	100.7	100.7
97.5°	85.5	88.3	90.4	91.8	92.4	92.4	92.4	93.1	92.4	93.1	93.1
100°	78.6	81.4	83.5	84.2	85.5	85.5	85.5	85.5	85.5	85.5	86.2
102.5°	73.1	75.9	77.3	78.0	78.6	79.3	79.3	79.3	79.3	80.0	80.0
105°	67.6	70.4	71.7	72.4	73.1	73.8	73.8	73.8	74.5	74.5	73.8
107.5°	62.8	64.8	66.2	67.6	68.3	68.3	69.0	69.0	69.0	69.0	69.0
110°	57.9	60.0	62.1	63.5	63.5	64.2	64.2	64.8	64.8	64.2	64.8

TEST NUMBER: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	53.1	55.9	57.3	58.6	59.3	60.0	60.0	60.0	60.0	60.0	60.0
115°	49.0	51.7	53.1	54.5	55.2	55.9	55.9	55.9	55.9	55.9	55.9
117.5°	45.5	48.3	49.7	50.4	51.1	51.7	52.4	52.4	52.4	52.4	51.7
120°	42.1	44.2	45.5	46.9	47.6	48.3	48.3	48.3	48.3	48.3	48.3
122.5°	38.6	40.7	42.1	43.5	44.2	44.8	44.8	44.8	44.8	44.8	44.8
125°	35.2	37.3	38.6	40.0	40.7	41.4	41.4	41.4	41.4	41.4	41.4
127.5°	31.7	33.8	35.9	36.6	37.3	37.9	37.9	37.9	38.6	37.9	37.9
130°	28.3	30.4	32.4	33.1	33.8	34.5	35.2	35.2	35.2	35.2	34.5
132.5°	25.5	27.6	29.0	29.7	31.0	31.0	31.7	31.7	31.7	31.7	31.0
135°	23.5	24.8	26.2	26.9	28.3	28.3	28.3	29.0	29.0	28.3	27.6
137.5°	20.7	22.1	23.5	24.1	24.8	25.5	25.5	26.2	25.5	25.5	25.5
140°	19.3	20.0	21.4	22.1	22.8	22.8	22.8	23.5	23.5	22.8	22.8
142.5°	16.6	17.9	19.3	20.0	20.7	20.7	20.7	20.7	20.7	20.7	20.7
145°	13.8	15.9	16.6	17.9	17.9	18.6	18.6	18.6	18.6	18.6	17.9
147.5°	11.7	13.1	15.2	15.9	15.9	16.6	16.6	16.6	16.6	16.6	15.9
150°	9.0	10.3	12.4	13.8	13.8	14.5	14.5	14.5	14.5	13.8	13.8
152.5°	7.6	9.0	9.7	11.0	11.7	11.7	11.7	12.4	11.7	11.7	11.7
155°	6.9	7.6	8.3	9.0	9.7	10.3	10.3	10.3	10.3	9.7	9.7
157.5°	5.5	6.2	6.9	7.6	8.3	9.0	9.0	9.0	9.0	9.0	8.3
160°	4.1	4.8	5.5	5.5	6.2	6.9	7.6	6.9	6.9	6.9	6.9
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: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1251.4	1250.7	1252.8	1249.4	1239.0	1241.8	1240.4	1246.6	1248.0	1249.4	1255.6
5°	1251.4	1250.7	1252.1	1249.4	1238.3	1240.4	1239.0	1245.2	1246.6	1247.3	1253.5
7.5°	1248.7	1248.0	1250.0	1246.6	1234.9	1237.6	1235.6	1241.8	1242.5	1243.1	1248.7
10°	1243.1	1242.5	1243.8	1241.1	1229.3	1232.1	1229.3	1235.6	1235.6	1236.9	1241.1
12.5°	1234.9	1233.5	1236.2	1232.8	1219.7	1223.1	1221.8	1225.9	1226.6	1227.3	1231.4
15°	1223.1	1221.8	1223.8	1221.8	1210.0	1210.7	1208.6	1214.9	1215.5	1214.2	1218.3
17.5°	1205.9	1204.5	1208.6	1207.3	1195.5	1198.3	1197.6	1199.0	1201.1	1197.6	1203.1
20°	1184.5	1185.9	1187.3	1188.0	1179.0	1179.0	1178.3	1181.1	1183.1	1180.4	1184.5
22.5°	1152.8	1156.2	1160.4	1161.7	1155.5	1154.8	1159.0	1157.6	1159.7	1158.3	1161.0
25°	1112.8	1119.7	1123.8	1127.9	1124.5	1125.9	1132.1	1133.5	1133.5	1132.8	1135.5
27.5°	1063.1	1072.1	1079.6	1088.6	1085.2	1087.9	1098.3	1099.6	1102.4	1099.6	1105.2
30°	1003.8	1012.0	1026.5	1039.6	1041.0	1045.2	1059.6	1061.0	1068.6	1065.8	1067.9
32.5°	944.4	948.6	965.1	978.2	986.5	996.9	1012.7	1015.5	1025.8	1027.9	1027.9
35°	869.9	881.7	896.8	915.5	925.8	936.8	958.2	962.4	977.5	982.4	987.9
37.5°	807.1	818.2	827.8	847.2	865.8	878.2	895.4	905.8	921.7	930.6	937.5
40°	740.2	749.2	759.5	778.9	794.7	813.4	830.6	843.0	863.0	873.4	882.3
42.5°	676.8	683.7	694.7	708.5	725.1	745.7	762.3	776.8	798.2	812.7	823.0
45°	620.2	624.3	634.0	644.3	658.8	680.2	696.1	714.7	732.0	747.1	759.5
47.5°	567.1	572.6	577.4	584.3	597.4	610.5	629.2	647.1	664.3	680.9	693.3
50°	518.1	518.1	525.7	530.5	539.5	551.2	565.7	578.1	599.5	611.2	627.1
52.5°	470.5	473.2	477.4	480.1	487.0	494.6	506.4	516.7	534.6	545.7	560.9
55°	428.4	431.2	433.2	434.6	438.8	447.7	451.9	460.1	472.6	481.5	494.6
57.5°	388.4	389.8	391.8	392.5	393.2	398.7	402.2	404.3	416.7	425.6	436.7
60°	351.8	351.8	353.9	353.2	352.5	355.3	354.6	356.7	364.3	369.8	374.6
62.5°	317.3	317.3	318.0	316.6	316.0	316.0	313.2	315.3	317.3	318.0	321.5
65°	285.6	289.1	286.3	287.0	282.8	281.5	280.1	275.9	275.3	272.5	273.9
67.5°	257.3	260.1	257.3	257.3	253.9	251.1	247.7	240.8	238.7	233.2	231.8
70°	234.6	232.5	233.9	231.8	227.7	224.2	219.4	213.9	207.0	200.1	195.2
72.5°	212.5	212.5	211.1	209.0	207.0	200.1	194.5	188.3	180.1	171.1	164.2
75°	191.1	191.8	191.8	189.7	186.3	180.1	173.8	164.9	155.9	145.6	136.6
77.5°	175.9	175.9	175.9	172.5	169.0	163.5	155.9	146.3	136.6	124.2	113.8
80°	161.4	160.7	160.7	156.6	153.2	146.9	139.4	129.7	119.3	106.2	94.5
82.5°	149.7	149.0	147.6	144.2	139.4	133.1	125.6	115.2	104.2	92.4	78.0
85°	137.3	136.6	135.2	131.8	126.9	121.4	113.1	102.8	91.8	78.6	64.8
87.5°	126.2	125.6	123.5	121.4	115.9	109.7	101.4	91.8	80.0	67.6	53.8
90°	118.7	117.3	115.9	113.1	108.3	101.4	93.1	82.8	71.1	58.6	44.8
92.5°	109.7	109.0	106.9	104.2	100.0	93.1	84.9	75.2	63.5	51.7	38.6
95°	100.7	100.0	98.7	95.9	91.8	85.5	78.0	68.3	57.3	45.5	33.8
97.5°	92.4	92.4	90.4	88.3	83.5	78.6	71.1	62.1	51.7	41.4	30.4
100°	85.5	85.5	83.5	80.7	77.3	72.4	64.8	56.6	46.9	37.3	26.2
102.5°	79.3	78.6	77.3	74.5	71.1	66.2	59.3	51.7	42.8	33.1	23.5
105°	73.8	73.1	71.7	69.0	66.2	60.7	55.2	47.6	38.6	29.7	20.7
107.5°	68.3	67.6	66.9	64.2	60.7	55.9	50.4	42.8	35.2	26.9	18.6
110°	63.5	62.8	61.4	58.6	55.2	51.1	45.5	39.3	31.7	24.1	16.6

TEST NUMBER: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	59.3	58.6	57.3	54.5	51.7	46.9	42.1	35.2	29.0	22.1	14.5
115°	55.2	54.5	53.1	50.4	46.9	42.8	37.9	32.4	25.5	19.3	13.1
117.5°	51.1	50.4	49.0	46.9	43.5	39.3	34.5	29.0	22.8	17.9	11.7
120°	47.6	46.2	44.8	42.8	39.3	35.9	31.0	26.2	20.7	15.9	10.3
122.5°	44.2	42.8	41.4	39.3	35.9	32.4	27.6	23.5	19.3	14.5	9.7
125°	40.0	39.3	37.9	35.9	32.4	29.0	25.5	21.4	17.2	13.1	8.3
127.5°	36.6	35.9	34.5	31.7	29.0	26.2	22.8	19.3	15.2	11.0	7.6
130°	33.8	32.4	31.0	29.0	26.9	24.1	20.7	17.2	13.8	9.7	6.9
132.5°	30.4	29.0	27.6	26.2	24.1	21.4	18.6	15.2	12.4	9.0	6.2
135°	27.6	26.2	24.8	23.5	21.4	19.3	16.6	13.8	11.0	8.3	5.5
137.5°	24.1	23.5	22.8	21.4	19.3	17.2	15.2	11.7	9.7	7.6	4.8
140°	22.1	21.4	20.7	18.6	17.2	15.2	13.1	10.3	8.3	6.2	4.1
142.5°	20.0	19.3	17.9	16.6	15.2	13.8	11.0	9.7	7.6	5.5	4.1
145°	17.2	16.6	15.9	14.5	13.1	11.0	9.7	8.3	6.9	4.8	3.4
147.5°	15.9	15.2	13.8	12.4	11.0	9.7	9.0	7.6	5.5	4.1	2.8
150°	13.1	12.4	11.7	10.3	9.7	9.0	7.6	6.2	4.8	3.4	2.8
152.5°	11.0	10.3	9.7	9.7	8.3	7.6	6.2	5.5	4.1	3.4	2.1
155°	9.7	9.7	9.0	8.3	6.9	6.2	5.5	4.1	3.4	2.8	2.1
157.5°	8.3	7.6	6.9	6.9	6.2	5.5	4.1	3.4	2.8	2.8	2.1
160°	6.9	6.2	6.2	5.5	4.8	4.1	3.4	3.4	2.8	2.1	2.1
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: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1256.2	1248.7	1255.6	1264.5	1264.5	1263.1	1261.8	1264.5	1271.4	1268.7	1260.4
5°	1254.2	1246.6	1252.8	1261.8	1261.8	1259.7	1258.3	1260.4	1268.0	1264.5	1256.9
7.5°	1250.0	1243.1	1247.3	1255.6	1255.6	1253.5	1252.1	1254.9	1261.1	1257.6	1249.4
10°	1242.5	1234.9	1239.7	1247.3	1246.6	1245.2	1243.1	1246.6	1252.1	1247.3	1237.6
12.5°	1232.8	1225.2	1229.3	1236.2	1235.6	1232.8	1231.4	1233.5	1238.3	1235.6	1225.2
15°	1219.7	1212.1	1215.5	1222.4	1220.4	1218.3	1215.5	1216.2	1222.4	1217.6	1206.6
17.5°	1203.8	1195.5	1198.3	1204.5	1202.4	1200.4	1196.9	1197.6	1204.5	1197.6	1185.9
20°	1184.5	1175.5	1177.6	1185.2	1181.7	1178.3	1174.8	1174.8	1181.7	1174.2	1161.0
22.5°	1163.8	1154.8	1156.2	1161.7	1159.0	1152.8	1149.3	1151.4	1154.8	1145.2	1131.4
25°	1138.3	1126.6	1128.6	1134.1	1132.1	1123.8	1120.3	1121.7	1120.3	1112.8	1098.3
27.5°	1108.6	1096.2	1097.6	1101.0	1098.3	1090.7	1086.5	1087.2	1084.5	1074.8	1058.3
30°	1071.4	1065.2	1064.5	1066.5	1062.4	1054.8	1050.0	1048.6	1047.9	1034.1	1014.1
32.5°	1033.4	1027.9	1024.5	1027.2	1022.4	1014.8	1006.5	1006.5	999.6	986.5	969.3
35°	994.8	985.8	982.4	984.4	978.9	969.3	962.4	958.9	948.6	932.0	913.4
37.5°	945.1	938.9	934.8	936.8	930.6	923.7	910.6	907.2	896.1	873.4	849.9
40°	891.3	886.5	882.3	884.4	877.5	867.2	855.4	849.9	837.5	812.0	793.3
42.5°	833.4	831.3	826.5	834.1	820.3	809.9	798.2	789.2	776.8	749.2	727.8
45°	772.0	776.8	765.8	767.8	758.9	749.9	737.5	724.4	711.9	685.7	661.6
47.5°	707.1	710.6	703.0	704.4	694.7	686.4	675.4	658.8	645.0	622.3	600.9
50°	640.2	638.8	638.8	637.4	629.8	619.5	608.5	593.3	579.5	558.8	540.9
52.5°	569.1	571.9	573.3	576.7	567.1	560.9	543.6	530.5	520.2	498.8	483.6
55°	500.8	510.5	507.7	509.1	498.1	493.3	479.5	469.1	453.9	441.5	431.9
57.5°	438.8	440.8	442.2	444.3	439.4	429.8	418.7	410.5	398.7	388.4	381.5
60°	378.7	378.7	379.4	382.9	378.0	369.8	361.5	355.3	347.0	340.8	336.7
62.5°	322.2	327.0	327.7	324.9	318.7	314.6	309.1	305.6	300.1	298.0	296.6
65°	269.7	269.7	269.7	271.1	267.7	264.9	261.5	260.8	262.8	260.1	261.5
67.5°	225.6	223.5	222.1	222.8	221.4	220.1	219.4	221.4	225.6	225.6	229.0
70°	187.6	183.5	180.7	180.7	180.7	181.4	183.5	187.6	194.5	197.3	202.1
72.5°	156.6	147.6	143.5	143.5	144.2	146.9	153.2	160.7	166.9	172.5	178.7
75°	126.9	118.0	111.8	111.1	112.4	116.6	125.6	132.5	142.8	150.4	158.0
77.5°	102.8	91.8	84.2	83.5	85.5	91.8	102.8	111.8	123.5	131.8	140.0
80°	82.1	69.7	63.5	59.3	62.8	70.4	82.8	93.8	104.9	115.9	126.2
82.5°	65.5	53.8	44.2	40.0	44.2	54.5	66.2	79.3	90.4	102.1	112.4
85°	51.7	39.3	28.3	24.1	29.0	40.0	53.1	66.2	78.6	90.4	100.7
87.5°	40.7	28.3	17.2	11.7	17.9	29.7	42.1	55.2	68.3	80.0	90.4
90°	31.7	20.0	9.7	1.4	10.3	21.4	33.8	46.2	59.3	71.1	81.4
92.5°	26.9	15.2	5.5	0.0	6.2	15.9	27.6	40.0	51.7	63.5	73.8
95°	22.8	12.4	4.1	0.0	4.1	12.4	22.8	33.8	45.5	57.3	67.6
97.5°	19.3	9.7	2.8	0.0	2.8	9.7	18.6	29.7	40.0	51.1	60.7
100°	16.6	8.3	2.1	0.0	2.1	7.6	15.9	25.5	35.9	46.2	55.2
102.5°	14.5	6.9	1.4	0.0	1.4	6.2	13.1	22.1	31.0	40.7	49.7
105°	12.4	5.5	1.4	0.0	0.7	4.8	11.0	19.3	27.6	36.6	44.8
107.5°	11.0	4.8	1.4	0.0	0.7	4.1	9.7	16.6	24.8	32.4	40.0
110°	9.7	4.1	1.4	0.0	0.7	2.8	8.3	14.5	21.4	29.0	36.6

TEST NUMBER: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	8.3	3.4	0.7	0.0	0.0	2.1	6.9	12.4	18.6	26.2	32.4
115°	7.6	3.4	0.7	0.0	0.0	1.4	5.5	11.0	16.6	23.5	29.0
117.5°	6.9	2.8	0.7	0.0	0.7	1.4	4.8	9.7	14.5	20.0	26.2
120°	6.2	2.8	0.7	0.0	0.7	0.7	3.4	8.3	12.4	17.9	22.8
122.5°	5.5	2.8	0.7	0.0	0.7	0.7	2.8	6.9	11.0	15.9	20.0
125°	4.8	2.1	1.4	0.7	0.7	0.7	2.1	5.5	9.7	13.1	17.9
127.5°	4.8	2.1	1.4	0.7	0.7	0.7	1.4	4.8	7.6	11.7	15.9
130°	4.1	2.1	1.4	0.7	0.7	0.7	0.7	3.4	6.9	9.7	13.1
132.5°	3.4	2.1	1.4	0.7	0.7	0.7	0.7	2.1	4.8	8.3	11.0
135°	3.4	2.1	1.4	0.7	0.7	0.7	0.7	1.4	3.4	6.2	9.0
137.5°	2.8	1.4	1.4	0.7	0.7	0.7	0.7	0.7	2.8	4.8	6.9
140°	2.8	1.4	1.4	0.7	0.7	0.7	0.7	0.7	2.1	3.4	5.5
142.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.8	4.1
145°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.8
147.5°	2.1	2.1	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1
150°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
152.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
155°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
157.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
160°	2.1	1.4	1.4	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4
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: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1257.6	1244.5	1251.4	1249.4	1252.1	1257.6	1256.9	1255.6	1255.6	1253.5	1250.7
5°	1253.5	1241.1	1247.3	1243.8	1247.3	1252.1	1251.4	1249.4	1250.7	1247.3	1243.8
7.5°	1245.2	1234.2	1239.7	1236.9	1239.7	1244.5	1242.5	1241.8	1243.1	1237.6	1235.6
10°	1235.6	1223.1	1229.3	1225.9	1229.3	1232.8	1231.4	1228.7	1231.4	1225.9	1223.8
12.5°	1220.4	1210.0	1214.2	1212.8	1214.9	1218.3	1215.5	1213.5	1214.9	1210.0	1205.9
15°	1203.8	1193.5	1196.9	1194.9	1196.2	1200.4	1195.5	1194.9	1193.5	1188.6	1187.3
17.5°	1182.4	1172.8	1176.2	1172.8	1174.8	1173.5	1172.8	1169.3	1169.3	1163.8	1159.7
20°	1156.2	1147.9	1145.9	1143.1	1145.9	1143.1	1139.0	1136.2	1135.5	1130.0	1126.6
22.5°	1125.9	1116.2	1117.6	1110.0	1110.7	1106.5	1099.6	1096.9	1094.1	1087.9	1083.1
25°	1089.3	1079.6	1072.7	1067.9	1061.7	1061.0	1052.0	1045.2	1044.5	1036.9	1036.2
27.5°	1047.9	1036.9	1031.4	1019.6	1012.0	1005.8	998.2	991.3	987.9	979.6	974.1
30°	1000.3	987.9	974.1	965.8	954.1	949.3	936.2	927.9	925.1	916.1	912.0
32.5°	946.5	933.4	922.4	906.5	893.4	886.5	873.4	865.1	861.6	852.0	846.5
35°	887.9	873.4	860.3	845.1	834.7	823.0	807.1	798.9	791.3	787.8	783.7
37.5°	826.5	810.6	795.4	780.2	771.3	757.5	743.7	738.2	729.2	725.7	721.6
40°	763.0	747.1	732.6	718.2	707.8	695.4	683.0	680.9	671.2	667.8	665.0
42.5°	700.2	683.7	667.1	656.8	649.2	636.7	628.5	626.4	618.1	616.1	616.1
45°	643.6	623.0	609.2	600.2	594.0	583.6	576.7	575.3	568.5	567.1	567.1
47.5°	582.9	563.6	553.3	547.8	542.2	534.6	530.5	530.5	523.6	522.2	521.5
50°	526.4	508.4	500.8	495.3	494.6	489.1	485.7	484.3	484.3	479.5	480.1
52.5°	472.6	463.6	457.4	453.9	449.8	446.3	443.6	443.6	441.5	438.1	439.4
55°	422.9	412.5	413.2	410.5	408.4	406.3	407.0	402.9	402.2	399.4	401.5
57.5°	373.2	373.2	371.8	369.8	366.3	367.7	367.7	367.7	364.3	362.2	364.3
60°	331.1	333.2	329.8	331.8	330.4	331.1	329.8	329.8	327.7	327.0	327.7
62.5°	293.9	297.3	296.0	298.7	297.3	298.0	299.4	296.6	295.3	293.9	295.3
65°	260.8	264.9	264.2	266.3	267.0	267.7	268.4	267.0	265.6	264.2	263.5
67.5°	231.8	235.9	238.7	239.4	240.1	242.1	241.5	240.1	238.7	236.6	235.9
70°	205.6	211.1	214.5	215.9	218.7	217.3	217.3	216.6	215.2	213.2	212.5
72.5°	183.5	189.7	193.2	194.5	197.3	197.3	196.6	195.9	194.5	192.5	191.8
75°	164.2	169.7	174.5	177.3	179.4	179.4	178.7	178.0	176.6	175.2	174.5
77.5°	149.0	153.8	158.0	161.4	162.8	163.5	162.8	161.4	161.4	160.7	160.0
80°	133.8	139.4	143.5	146.9	149.0	149.0	148.3	149.0	147.6	146.9	146.3
82.5°	120.7	126.9	131.8	135.2	136.6	137.3	136.6	137.3	135.9	135.9	135.9
85°	109.0	115.2	120.7	123.5	125.6	126.2	126.2	126.2	125.6	125.6	125.6
87.5°	99.3	105.5	111.1	113.8	115.9	116.6	116.6	117.3	115.9	115.9	115.9
90°	90.4	96.6	102.1	104.9	106.9	108.3	108.3	109.0	108.3	107.6	107.6
92.5°	82.1	89.0	94.5	97.3	99.3	101.4	101.4	102.1	100.7	100.7	100.7
95°	75.2	82.1	86.9	90.4	92.4	93.8	94.5	94.5	93.8	93.8	93.8
97.5°	69.0	75.2	80.0	83.5	85.5	86.2	86.9	87.6	86.9	86.9	86.9
100°	62.8	69.0	73.8	76.6	79.3	80.0	80.7	81.4	81.4	80.7	80.7
102.5°	57.3	63.5	67.6	71.1	73.1	74.5	75.2	75.2	75.2	75.2	75.2
105°	51.7	57.9	62.1	65.5	67.6	69.0	69.7	70.4	70.4	69.7	69.7
107.5°	46.9	52.4	57.3	60.0	62.8	64.2	64.8	64.8	65.5	64.8	64.8
110°	42.1	48.3	52.4	55.2	57.9	59.3	60.0	60.7	60.7	60.7	60.7

TEST NUMBER: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	38.6	43.5	47.6	50.4	53.1	54.5	55.2	55.9	56.6	55.9	55.9
115°	34.5	39.3	43.5	46.2	48.3	49.7	51.1	51.7	51.7	52.4	51.7
117.5°	31.0	35.2	39.3	42.1	44.2	46.2	46.9	47.6	48.3	47.6	47.6
120°	27.6	31.7	35.2	37.9	40.0	42.1	42.8	43.5	44.2	43.5	43.5
122.5°	24.8	28.3	31.7	34.5	36.6	37.9	39.3	39.3	40.0	40.0	40.0
125°	22.1	25.5	28.3	31.0	33.1	34.5	35.2	35.9	35.9	36.6	36.6
127.5°	19.3	22.1	25.5	27.6	29.7	31.0	31.7	32.4	32.4	33.1	33.1
130°	16.6	19.3	22.1	24.1	26.2	27.6	28.3	29.0	29.7	29.7	29.7
132.5°	14.5	17.2	19.3	21.4	22.8	24.1	25.5	26.2	26.2	26.2	26.2
135°	11.7	14.5	16.6	18.6	20.0	21.4	22.1	23.5	23.5	23.5	23.5
137.5°	9.7	12.4	14.5	15.9	17.2	18.6	19.3	20.0	20.7	20.7	20.7
140°	7.6	9.7	11.7	13.8	15.2	15.9	17.2	17.2	17.9	17.9	17.9
142.5°	5.5	7.6	9.0	11.0	12.4	13.8	14.5	15.2	15.2	15.2	15.2
145°	4.1	5.5	6.9	8.3	10.3	11.0	11.7	12.4	13.1	13.1	13.1
147.5°	2.8	4.1	4.8	6.2	7.6	9.0	9.7	10.3	11.0	11.0	11.0
150°	2.1	2.8	4.1	4.8	5.5	6.9	8.3	8.3	9.0	9.0	8.3
152.5°	1.4	2.1	2.8	3.4	4.1	4.8	6.2	6.2	6.9	6.9	6.9
155°	1.4	1.4	1.4	2.1	2.8	3.4	4.1	4.8	4.8	4.8	4.8
157.5°	1.4	1.4	1.4	1.4	1.4	2.1	2.8	3.4	3.4	3.4	3.4
160°	1.4	1.4	0.7	0.7	1.4	1.4	1.4	1.4	2.1	2.1	2.1
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: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1252.8	1254.2	1254.2	1252.8	1252.1	1254.9	1251.4	1238.3	1242.5	1243.8	1248.0
5°	1246.6	1248.0	1248.0	1248.0	1246.6	1249.4	1245.9	1232.8	1237.6	1239.7	1242.5
7.5°	1237.6	1238.3	1239.7	1239.0	1237.6	1241.8	1238.3	1225.2	1228.7	1232.1	1235.6
10°	1225.9	1225.9	1226.6	1228.0	1226.6	1230.0	1226.6	1214.9	1218.3	1220.4	1224.5
12.5°	1210.0	1211.4	1212.1	1211.4	1210.7	1213.5	1212.1	1201.1	1202.4	1206.6	1210.7
15°	1188.6	1188.6	1192.1	1190.7	1190.7	1193.5	1194.9	1182.4	1184.5	1190.7	1194.9
17.5°	1162.4	1163.1	1165.9	1167.3	1166.6	1171.4	1172.1	1162.4	1161.7	1169.3	1173.5
20°	1128.6	1130.0	1133.5	1136.2	1136.2	1141.7	1143.8	1137.6	1138.3	1146.6	1147.9
22.5°	1087.2	1087.2	1093.4	1097.6	1101.0	1104.5	1110.7	1105.2	1105.2	1116.2	1122.4
25°	1036.2	1041.0	1043.1	1051.4	1056.2	1065.8	1071.4	1072.1	1072.7	1083.1	1087.2
27.5°	979.6	981.0	987.2	996.9	1002.4	1011.3	1021.7	1023.8	1027.2	1041.0	1047.2
30°	915.5	919.6	922.4	936.2	943.7	955.5	968.6	973.4	976.2	994.8	1002.4
32.5°	849.9	851.3	863.0	870.6	879.6	892.0	907.2	916.1	921.7	941.0	952.0
35°	784.4	787.1	796.8	806.5	815.4	827.8	843.7	856.1	865.8	883.0	897.5
37.5°	724.4	731.3	733.3	743.0	749.9	762.3	773.3	791.3	800.9	818.9	837.5
40°	670.6	672.6	674.0	683.7	688.5	700.2	716.1	727.8	740.9	754.0	776.1
42.5°	617.4	618.8	620.9	626.4	631.9	640.2	651.9	663.7	677.5	696.8	711.3
45°	568.5	569.8	571.2	574.7	579.5	587.1	594.7	602.9	616.7	633.3	648.5
47.5°	522.9	525.7	525.7	526.4	529.8	536.0	541.5	551.9	559.5	568.5	585.7
50°	479.5	481.5	482.2	482.2	484.3	488.4	489.8	496.7	503.6	511.9	524.3
52.5°	438.8	438.8	438.1	440.8	440.8	443.6	444.3	448.4	453.2	462.2	467.7
55°	400.1	400.1	402.2	400.8	400.8	402.2	401.5	402.2	406.3	411.9	416.7
57.5°	362.9	362.2	364.3	362.9	362.2	363.6	364.9	362.2	362.9	368.4	368.4
60°	325.6	326.3	328.4	327.0	327.0	327.0	325.6	324.2	322.9	326.3	327.7
62.5°	296.0	293.9	296.0	293.9	295.3	294.6	293.2	290.4	291.1	289.7	288.4
65°	264.9	264.9	265.6	263.5	264.9	264.9	262.8	262.1	258.0	256.6	253.2
67.5°	238.0	238.0	238.7	237.3	237.3	238.0	235.9	233.9	229.7	227.7	222.8
70°	214.5	214.5	214.5	213.9	213.9	213.9	212.5	209.7	205.6	202.1	195.9
72.5°	193.2	193.9	193.2	193.2	195.2	193.2	191.1	188.3	184.9	178.0	172.5
75°	175.9	176.6	175.9	175.9	175.9	175.2	174.5	170.4	166.3	160.7	152.5
77.5°	160.7	160.7	161.4	160.7	160.7	160.0	158.0	154.5	149.7	144.9	135.2
80°	146.3	146.9	147.6	148.3	146.9	146.3	144.2	141.4	135.2	129.7	120.0
82.5°	135.9	135.2	135.9	136.6	135.2	134.5	132.5	129.0	124.2	116.6	106.9
85°	125.6	124.9	124.9	125.6	124.9	123.5	121.4	118.0	113.1	105.5	95.9
87.5°	115.2	115.9	116.6	115.9	115.2	113.8	111.8	108.3	102.8	96.6	86.2
90°	107.6	107.6	107.6	107.6	106.9	105.5	103.5	99.3	94.5	86.9	78.0
92.5°	100.7	100.7	100.7	100.7	100.0	98.0	95.9	92.4	86.9	79.3	71.1
95°	93.8	94.5	93.8	93.8	92.4	91.8	88.3	84.9	80.0	72.4	63.5
97.5°	86.2	86.9	86.2	86.2	85.5	84.2	82.1	78.0	73.1	66.2	57.9
100°	80.7	80.7	80.0	80.0	79.3	78.0	75.2	71.7	66.9	60.0	51.7
102.5°	74.5	75.2	74.5	74.5	73.1	71.7	69.7	66.2	61.4	54.5	46.9
105°	69.7	69.7	69.0	69.0	67.6	66.2	64.2	60.0	55.9	49.7	42.1
107.5°	64.8	64.8	64.2	64.2	62.8	61.4	58.6	55.2	51.1	44.8	37.9
110°	60.0	60.0	60.0	59.3	57.9	55.9	53.8	50.4	46.2	40.7	33.8



TEST NUMBER: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	56.6	55.9	55.2	54.5	53.1	51.7	49.0	45.5	41.4	36.6	30.4
115°	51.7	51.7	51.1	50.4	49.0	46.9	44.8	42.1	37.9	32.4	26.9
117.5°	47.6	47.6	46.9	46.2	44.8	42.8	40.7	37.9	33.8	29.0	24.1
120°	43.5	43.5	42.8	42.1	40.7	38.6	37.3	33.8	30.4	25.5	21.4
122.5°	40.0	39.3	39.3	37.9	37.3	35.2	33.1	30.4	26.9	22.8	18.6
125°	35.9	35.9	35.2	34.5	33.8	31.7	29.7	26.9	23.5	20.0	16.6
127.5°	32.4	32.4	31.7	31.0	30.4	28.3	26.2	24.1	20.7	17.2	13.8
130°	29.0	29.0	28.3	27.6	26.9	24.8	23.5	20.7	17.9	15.2	11.7
132.5°	26.2	26.2	25.5	24.8	23.5	22.1	20.7	17.9	15.9	13.1	10.3
135°	23.5	22.8	22.8	22.1	20.7	19.3	17.9	15.9	13.1	11.0	8.3
137.5°	20.7	20.0	19.3	18.6	17.9	16.6	15.2	13.8	11.7	9.0	6.9
140°	17.9	17.2	17.2	16.6	15.2	14.5	13.1	11.0	9.7	7.6	5.5
142.5°	15.2	15.2	14.5	13.8	13.1	12.4	11.0	9.7	7.6	6.2	4.1
145°	13.1	12.4	12.4	11.7	11.0	9.7	9.0	7.6	6.2	4.8	3.4
147.5°	10.3	10.3	10.3	9.7	9.0	8.3	7.6	6.2	4.8	3.4	2.1
150°	8.3	8.3	8.3	7.6	6.9	6.2	5.5	4.8	3.4	2.1	1.4
152.5°	6.9	6.9	6.2	6.2	5.5	4.8	4.1	3.4	2.1	1.4	1.4
155°	4.8	4.8	4.8	4.1	4.1	3.4	2.8	2.1	1.4	1.4	1.4
157.5°	3.4	3.4	3.4	2.8	2.8	2.1	2.1	1.4	1.4	1.4	1.4
160°	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1245.9	1245.2	1250.7	1250.7	1244.5	1254.2	1264.5
5°	1241.8	1241.1	1246.6	1246.6	1241.1	1250.7	1261.8
7.5°	1233.5	1234.2	1239.7	1241.1	1234.2	1243.1	1254.9
10°	1224.5	1223.8	1230.0	1231.4	1225.9	1234.2	1245.2
12.5°	1210.0	1210.0	1216.2	1218.3	1212.8	1222.4	1232.8
15°	1194.9	1194.9	1199.0	1202.4	1197.6	1206.6	1216.9
17.5°	1175.5	1174.8	1179.0	1183.1	1178.3	1188.0	1199.0
20°	1150.7	1150.7	1155.5	1160.4	1156.9	1165.9	1178.3
22.5°	1124.5	1121.7	1130.0	1133.5	1131.4	1140.4	1152.8
25°	1091.4	1090.7	1099.0	1103.8	1101.0	1110.7	1121.7
27.5°	1055.5	1054.8	1063.1	1069.3	1067.9	1076.9	1089.3
30°	1012.0	1015.5	1023.1	1033.4	1030.0	1039.6	1052.7
32.5°	966.5	970.0	978.9	990.0	990.7	998.2	1011.3
35°	912.0	921.0	927.2	941.7	944.4	952.0	965.8
37.5°	854.7	865.1	878.2	889.2	894.8	901.0	916.8
40°	790.6	805.8	820.3	833.4	840.3	846.5	861.6
42.5°	732.6	744.4	758.2	771.3	783.7	789.2	805.1
45°	667.1	680.9	693.3	709.2	721.6	727.8	743.7
47.5°	602.9	616.7	633.3	644.3	657.4	663.7	678.8
50°	541.5	554.0	567.8	580.9	591.9	597.4	610.5
52.5°	480.8	493.9	507.1	515.3	527.1	531.2	542.2
55°	427.0	436.0	447.7	452.6	464.3	467.0	474.6
57.5°	375.3	381.5	385.6	393.9	402.2	408.4	417.4
60°	328.4	331.1	333.9	338.7	345.6	347.7	351.1
62.5°	286.3	285.6	291.1	292.5	293.2	300.1	296.6
65°	249.0	249.7	244.9	242.8	245.6	247.7	246.3
67.5°	218.0	213.9	209.7	204.9	200.8	202.8	200.8
70°	187.6	184.2	177.3	170.4	167.6	163.5	161.4
72.5°	163.5	155.2	148.3	139.4	134.5	129.7	126.2
75°	144.9	133.1	123.5	113.8	106.9	100.0	98.7
77.5°	125.6	114.5	103.5	93.1	82.8	75.2	72.4
80°	110.4	100.0	86.9	74.5	63.5	53.8	50.4
82.5°	96.6	85.5	72.4	59.3	46.9	36.6	32.4
85°	84.9	73.1	60.0	46.9	34.5	23.5	17.9
87.5°	75.9	62.8	49.7	37.3	24.1	13.1	6.9
90°	67.6	55.2	42.8	29.7	17.2	6.9	0.0
92.5°	60.0	48.3	35.9	24.1	13.1	4.1	0.7
95°	53.1	42.8	30.4	19.3	9.7	2.8	0.7
97.5°	47.6	37.3	26.2	15.9	7.6	2.1	0.7
100°	42.8	32.4	22.8	13.1	6.2	1.4	0.7
102.5°	37.9	29.0	19.3	11.0	4.8	0.7	0.7
105°	33.8	25.5	16.6	9.7	4.1	0.7	0.7
107.5°	30.4	22.8	14.5	8.3	2.8	0.7	0.7
110°	26.9	19.3	12.4	6.9	2.1	0.7	0.7

TEST NUMBER: P1214104

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	24.1	17.2	11.0	5.5	1.4	0.7	0.7
115°	21.4	15.2	9.7	4.8	1.4	0.7	0.7
117.5°	18.6	13.1	8.3	3.4	0.7	0.7	0.7
120°	16.6	11.7	6.9	2.8	0.7	0.7	0.7
122.5°	14.5	9.7	5.5	2.1	0.7	0.7	0.7
125°	12.4	8.3	4.8	1.4	0.7	0.7	0.7
127.5°	10.3	6.9	3.4	1.4	0.7	0.7	0.7
130°	9.0	5.5	2.8	0.7	0.7	0.7	0.7
132.5°	7.6	4.1	2.1	0.7	0.7	0.7	0.7
135°	6.2	3.4	1.4	0.7	0.7	0.7	0.7
137.5°	4.8	2.8	1.4	0.7	0.7	0.7	0.7
140°	3.4	2.1	0.7	0.7	0.7	0.7	0.7
142.5°	2.8	1.4	0.7	0.7	0.7	0.7	0.7
145°	2.1	1.4	0.7	0.7	0.7	0.7	0.7
147.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7
150°	1.4	1.4	0.7	0.7	1.4	0.7	0.7
152.5°	1.4	0.7	0.7	0.7	1.4	0.7	0.7
155°	1.4	1.4	1.4	1.4	1.4	1.4	0.7
157.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)