

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: P1213672

Luminaire Tested: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

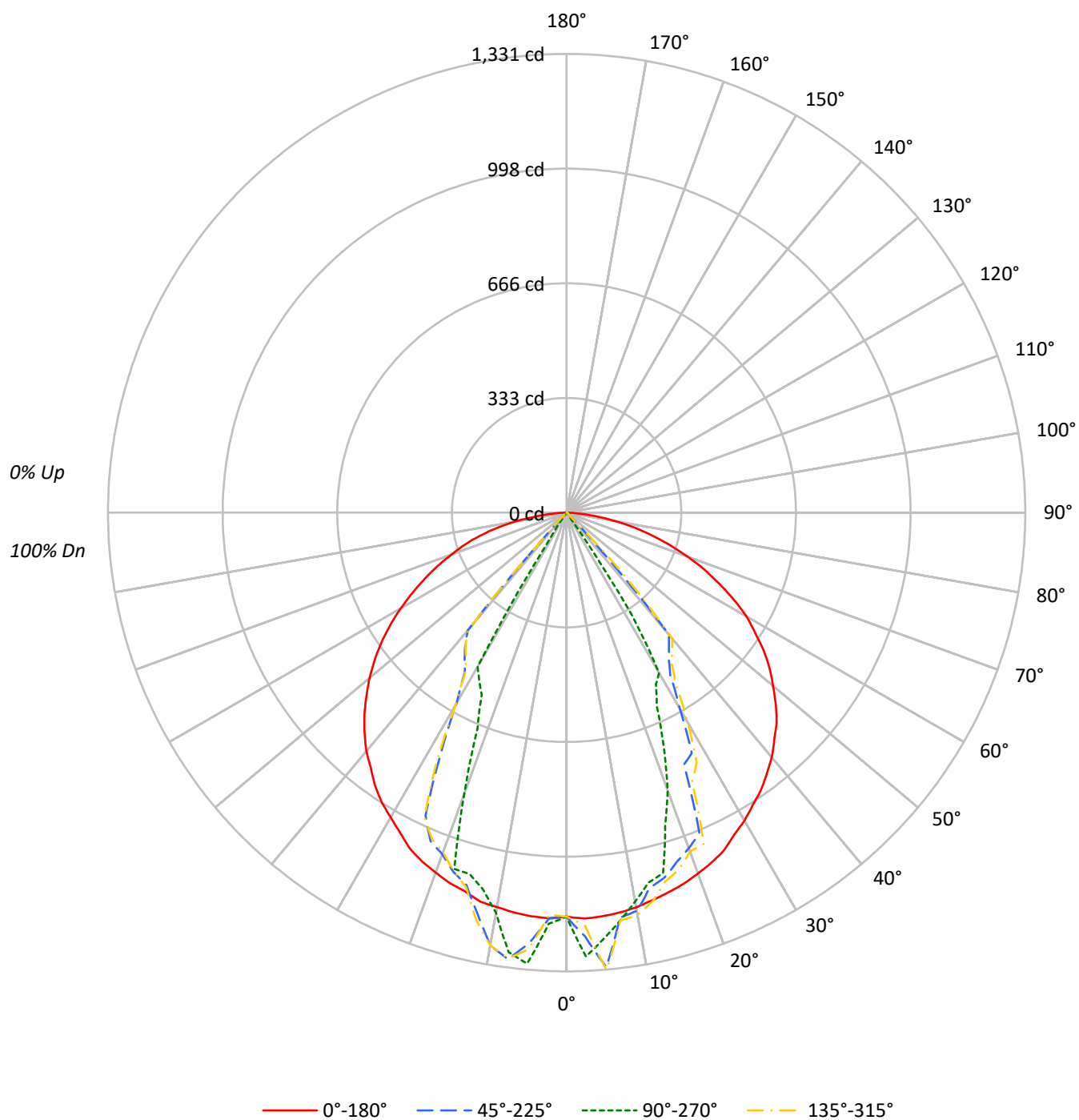
Lumens per Lamp: N/A
Luminaire Lumens: 1667.1 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 14
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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CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18948	18948	18948	18948
5°	18974	19487	18967	20637
10°	18877	17634	18865	18143
15°	18772	16459	18726	16503
20°	18739	12965	18685	13124
25°	18735	9382	18645	8854
30°	18589	8230	18392	7911
35°	18576	181	18304	220
40°	18565	40	18120	40
45°	18543	23	17849	18
50°	18304	19	17464	19
55°	18077	13	16965	13
60°	17590	14	16214	14
65°	16494	23	15317	15
70°	15071	26	14345	26
75°	13023	29	13236	29
80°	10156	33	10734	33
85°	5441	39	5560	39

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 20031 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	7.1
10°-20°	320.8	19.2
20°-30°	408.2	24.5
30°-40°	344.9	20.7
40°-50°	225.5	13.5
50°-60°	142.1	8.5
60°-70°	75.6	4.5
70°-80°	27.6	1.7
80°-90°	4.8	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	846.7	50.8
0°-40°	1191.6	71.5
0°-60°	1559.1	93.5
0°-90°	1667.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1172	1172	1172	1172	1172	
5°	1176	1241	1176	1314	1176	112
15°	1141	1083	1138	1086	1141	322
25°	1081	618	1076	583	1081	497
35°	983	12	968	14	983	615
45°	862	1	830	1	862	663
55°	699	1	656	1	699	623
65°	489	1	454	1	489	484
75°	257	1	261	1	257	273
85°	50	1	51	1	50	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1179.0	1179.7	1180.1	1180.8	1181.9	1182.2	1182.9	1182.2	1182.2	1182.2	1182.2
5°	1175.9	1177.3	1178.3	1179.7	1182.2	1182.6	1185.4	1185.7	1187.1	1190.0	1192.1
7.5°	1170.6	1172.0	1174.1	1177.6	1181.2	1185.0	1190.0	1195.2	1202.6	1209.7	1218.5
10°	1162.9	1164.6	1167.1	1170.2	1187.5	1190.0	1200.9	1216.0	1220.2	1242.4	1258.9
12.5°	1151.6	1157.6	1163.9	1166.7	1183.3	1209.3	1245.9	1238.5	1230.4	1302.9	1301.8
15°	1140.7	1148.8	1145.6	1168.5	1183.6	1229.0	1213.5	1246.6	1307.1	1292.3	1293.0
17.5°	1129.1	1130.8	1148.4	1167.4	1194.5	1217.7	1236.7	1282.1	1294.1	1295.2	1282.1
20°	1114.3	1122.7	1148.4	1165.7	1211.4	1222.3	1263.5	1286.7	1281.8	1269.8	1247.7
22.5°	1099.2	1124.9	1150.9	1175.2	1207.2	1236.4	1256.8	1267.7	1242.0	1194.9	1169.5
25°	1081.2	1096.4	1130.5	1166.0	1206.1	1223.0	1235.0	1217.4	1184.0	1141.7	1099.2
27.5°	1053.4	1077.7	1121.3	1161.5	1197.7	1218.1	1198.7	1156.5	1102.7	1074.9	1055.5
30°	1032.0	1063.6	1099.5	1138.2	1175.9	1187.8	1138.6	1090.4	1053.4	1025.6	1021.4
32.5°	1005.9	1051.0	1085.1	1122.0	1153.7	1137.9	1090.0	1027.7	997.1	986.6	990.8
35°	982.7	1016.8	1061.5	1097.8	1120.6	1085.1	1009.5	970.7	956.0	962.0	954.2
37.5°	954.9	1000.0	1041.1	1072.4	1064.7	1011.2	947.2	922.5	924.3	919.4	904.6
40°	926.1	969.0	1011.9	1041.5	1014.4	932.8	890.2	884.9	886.0	870.1	849.0
42.5°	892.3	931.3	974.3	1001.0	942.6	878.9	850.1	850.8	841.6	819.5	808.2
45°	862.0	897.9	942.6	945.1	873.3	820.2	811.7	802.6	782.2	774.8	766.3
47.5°	823.3	863.1	900.0	886.7	805.4	772.3	766.0	745.9	735.7	730.1	723.0
50°	782.2	822.3	856.0	818.0	741.3	733.6	712.8	697.0	690.0	684.0	677.7
52.5°	743.1	776.2	810.7	745.2	692.1	684.7	661.1	652.0	644.9	638.3	636.8
55°	698.8	728.0	751.5	675.9	644.9	627.7	610.8	604.5	597.8	594.6	599.9
57.5°	648.5	681.5	678.0	607.6	593.9	568.9	562.6	558.4	553.5	555.6	511.6
60°	603.1	628.4	611.2	557.7	534.5	517.6	511.9	509.1	511.9	469.0	412.4
62.5°	547.1	575.6	540.8	499.3	474.6	466.6	461.6	465.5	424.3	377.2	363.5
65°	489.1	520.0	468.7	436.6	421.2	414.1	413.8	381.1	340.6	322.3	322.3
67.5°	433.1	465.1	399.0	372.3	366.3	367.0	346.6	297.0	285.7	273.4	237.8
70°	373.7	401.8	329.7	313.5	310.0	307.5	257.9	244.5	231.2	198.4	195.6
72.5°	314.6	328.3	264.9	261.1	260.4	216.4	206.5	183.7	168.2	164.3	162.6
75°	257.2	253.0	209.3	212.9	179.4	164.0	148.1	134.8	132.6	131.2	32.7
77.5°	203.0	181.9	165.0	143.6	128.4	109.1	105.9	103.8	68.3	24.6	20.1
80°	147.8	117.9	109.8	93.2	79.5	76.4	78.1	23.9	19.0	15.8	13.7
82.5°	93.9	75.3	61.6	53.8	52.4	22.9	16.9	13.7	12.0	10.2	8.4
85°	50.3	33.4	31.0	26.0	15.5	10.6	8.8	6.7	5.6	4.6	4.2
87.5°	15.8	13.4	10.9	8.8	5.3	3.5	2.8	2.5	2.1	1.8	1.8
90°	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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1181.5	1182.2	1181.9	1182.9	1182.9	1184.3	1185.4	1186.4	1188.5	1189.6	1197.7
5°	1196.6	1198.4	1203.7	1208.6	1214.6	1216.3	1226.5	1229.0	1241.0	1242.4	1281.8
7.5°	1230.4	1237.1	1249.8	1262.4	1275.1	1283.2	1297.3	1306.1	1315.6	1324.0	1355.3
10°	1271.2	1282.5	1294.8	1307.5	1314.9	1330.3	1338.8	1340.2	1337.7	1324.0	1273.3
12.5°	1311.3	1322.6	1317.3	1319.8	1328.6	1301.1	1305.0	1285.3	1299.0	1231.1	1180.8
15°	1305.7	1305.0	1292.0	1249.8	1256.8	1204.4	1183.3	1167.1	1180.1	1173.1	1165.3
17.5°	1288.8	1256.8	1234.3	1183.6	1162.2	1147.4	1147.7	1148.1	1141.7	1148.4	1128.7
20°	1217.4	1181.5	1148.1	1130.1	1123.8	1113.2	1118.5	1113.2	1113.6	1115.7	1085.5
22.5°	1122.4	1111.5	1092.1	1097.8	1095.7	1105.2	1098.1	1087.2	1090.7	1074.9	1052.0
25°	1084.0	1071.4	1070.7	1072.8	1069.6	1065.4	1059.1	1042.5	1041.5	1036.5	1026.0
27.5°	1045.3	1046.0	1048.2	1041.8	1030.6	1022.1	1012.6	1004.5	1007.7	1002.1	987.6
30°	1018.6	1018.2	1005.6	1000.0	979.2	979.5	977.1	972.2	969.0	969.3	960.2
32.5°	980.6	969.7	955.3	948.2	946.5	940.1	935.2	936.3	938.7	929.9	939.4
35°	941.5	919.0	916.9	910.9	905.3	901.1	902.8	895.8	895.5	894.4	817.0
37.5°	889.1	878.2	877.2	870.8	867.0	865.9	859.2	860.3	863.4	869.1	696.7
40°	845.8	836.0	833.5	833.2	824.7	824.0	825.8	832.5	837.0	801.9	663.9
42.5°	799.4	800.1	792.4	787.4	788.5	791.7	800.1	776.9	673.1	641.4	606.9
45°	759.6	756.1	751.9	750.5	759.6	753.3	660.4	609.4	597.1	595.7	498.9
47.5°	718.1	717.1	715.3	716.4	664.3	592.2	571.1	564.4	566.5	565.1	428.6
50°	676.3	677.7	677.7	591.8	543.3	531.3	533.1	539.0	501.7	468.3	399.3
52.5°	640.0	629.1	539.0	508.1	497.2	502.4	489.8	443.0	409.2	389.5	369.4
55°	572.8	492.6	472.5	467.6	471.5	424.7	395.8	365.6	356.8	354.7	343.1
57.5°	450.7	434.5	436.3	416.6	371.9	345.5	333.9	329.7	325.8	323.0	28.1
60°	398.6	403.2	369.1	326.9	308.9	305.4	302.6	298.7	298.0	293.1	17.9
62.5°	364.9	320.9	291.3	280.8	276.6	275.5	270.2	268.5	228.0	31.3	13.4
65°	275.1	257.2	251.6	249.1	244.5	244.5	203.0	32.0	26.0	22.5	12.0
67.5°	224.5	223.1	220.3	217.1	147.8	31.0	27.1	23.6	20.4	17.9	10.6
70°	190.0	189.3	172.4	31.7	26.4	23.2	20.4	18.3	16.9	15.1	9.5
72.5°	155.9	31.7	26.7	23.2	20.1	18.3	16.5	14.8	13.4	12.3	7.7
75°	24.3	21.5	19.0	17.2	15.8	14.1	12.7	11.6	11.3	9.9	5.3
77.5°	17.6	15.1	13.7	12.3	10.9	9.9	8.4	7.4	6.7	5.6	3.9
80°	12.3	10.9	9.9	8.1	7.0	6.0	5.3	4.6	4.2	3.5	1.8
82.5°	7.0	6.0	5.3	4.2	3.9	3.2	2.8	2.5	2.5	1.8	1.8
85°	3.2	3.2	2.5	2.1	1.8	1.8	1.8	1.4	1.4	1.1	1.1
87.5°	1.4	1.4	1.4	1.4	1.4	1.1	1.1	1.1	1.1	1.1	0.7
90°	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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1209.0	1213.5	1222.3	1231.5	1221.3	1257.9	1255.0	1267.4	1274.0	1277.2	1284.6
5°	1316.6	1337.0	1343.7	1323.7	1312.0	1300.1	1273.0	1252.6	1255.0	1248.4	1224.1
7.5°	1314.5	1270.9	1212.1	1185.4	1183.3	1180.1	1188.5	1193.5	1194.2	1193.8	1193.1
10°	1203.3	1180.8	1176.9	1173.4	1174.8	1161.8	1155.8	1138.9	1148.1	1143.2	1144.9
12.5°	1169.5	1164.3	1143.5	1114.7	1131.9	1118.9	1111.5	1116.4	1110.8	1105.5	1103.7
15°	1149.5	1115.4	1103.7	1096.7	1091.8	1089.0	1091.4	1085.8	1084.0	1083.0	1085.5
17.5°	1108.0	1094.2	1081.6	1062.9	1063.3	1062.2	1069.3	1079.8	1080.5	1026.3	977.4
20°	1075.2	1064.0	1047.8	1036.2	1052.0	1023.9	915.2	863.4	855.3	855.3	856.8
22.5°	1049.2	1024.2	1025.3	1007.0	858.9	828.6	829.3	832.5	818.0	768.8	763.5
25°	1013.7	1009.8	932.8	806.1	807.1	783.6	747.3	696.3	641.1	641.1	631.9
27.5°	986.9	905.0	792.4	787.1	707.9	658.0	627.0	580.2	573.9	567.9	568.6
30°	964.1	765.6	768.4	658.0	599.5	558.0	555.6	547.8	544.0	542.9	539.0
32.5°	762.1	745.6	643.2	560.1	537.3	530.6	527.4	518.6	518.3	511.6	465.1
35°	714.6	654.4	538.3	515.8	509.1	502.8	497.5	333.9	39.4	15.8	13.7
37.5°	660.4	546.8	497.9	487.7	481.3	355.7	35.5	12.3	8.8	6.3	5.6
40°	559.8	488.4	472.9	461.6	190.4	12.3	7.7	6.0	3.5	3.2	2.8
42.5°	472.2	460.2	443.7	135.1	14.1	6.0	3.9	2.8	2.5	2.5	2.1
45°	441.9	431.4	178.7	13.4	8.8	2.8	2.5	2.5	2.1	1.4	1.4
47.5°	413.8	364.2	16.2	8.4	5.6	2.5	2.1	1.4	1.4	1.4	1.1
50°	383.9	20.1	11.3	6.3	3.5	1.4	1.4	1.4	1.4	1.1	1.1
52.5°	71.8	14.1	9.1	5.6	1.8	1.4	1.4	1.4	1.1	1.1	1.1
55°	16.9	11.3	8.4	4.9	1.4	1.4	1.4	1.1	1.1	1.1	0.7
57.5°	12.7	8.4	6.7	4.6	1.4	1.1	1.1	1.1	1.1	1.1	0.7
60°	10.6	6.0	5.3	4.2	1.1	1.1	1.1	1.1	1.1	1.1	0.7
62.5°	7.4	4.9	3.9	3.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	6.0	3.9	3.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	5.3	3.2	2.1	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	4.2	1.1	1.1	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	3.5	1.1	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	3.5	1.8	0.7	0.7	1.1	1.1	1.4	1.4	1.1	1.1	1.1
77.5°	2.5	1.8	0.7	0.7	1.1	1.1	1.4	1.4	1.1	1.1	1.1
80°	1.4	1.8	0.7	1.1	1.1	2.1	2.5	1.4	1.1	1.1	1.1
82.5°	1.4	1.8	2.1	2.1	1.1	1.8	2.1	1.8	1.4	1.1	1.1
85°	1.4	1.1	1.4	1.8	1.1	1.8	1.8	1.4	1.4	1.1	1.1
87.5°	0.7	1.1	1.1	1.4	1.4	1.4	1.8	1.4	1.4	1.4	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1288.1	1289.5	1267.4	1259.6	1266.3	1264.9	1258.9	1236.7	1234.3	1219.5	1198.0
5°	1231.1	1240.6	1229.0	1249.1	1239.6	1249.1	1277.9	1291.3	1313.1	1326.5	1331.4
7.5°	1191.4	1193.5	1193.5	1195.2	1197.0	1197.3	1195.2	1193.8	1187.8	1180.5	1193.8
10°	1143.2	1145.6	1149.8	1149.1	1148.8	1156.2	1157.9	1173.1	1172.4	1175.2	1185.4
12.5°	1118.2	1099.2	1116.4	1111.8	1118.2	1108.3	1126.6	1123.5	1124.5	1133.0	1154.8
15°	1076.7	1082.6	1086.9	1086.9	1089.3	1087.2	1085.1	1099.5	1108.3	1108.7	1107.3
17.5°	996.8	951.4	997.8	985.9	1081.2	1083.7	1075.6	1068.9	1068.9	1074.2	1085.5
20°	855.7	856.8	857.1	861.7	867.3	867.0	867.3	1005.9	1071.7	1056.6	1046.4
22.5°	750.1	737.1	761.4	759.6	789.9	823.3	855.3	852.2	854.3	952.1	1040.1
25°	601.3	618.2	604.5	610.5	644.6	684.3	709.0	773.4	843.4	838.5	861.3
27.5°	566.1	561.6	567.9	567.9	572.5	577.7	591.5	627.7	690.0	755.4	817.3
30°	532.7	536.6	537.3	543.6	547.1	550.6	552.8	566.5	580.5	625.9	702.3
32.5°	400.1	350.8	461.6	491.5	516.9	522.8	527.1	532.7	542.9	549.6	587.9
35°	11.6	11.6	12.3	14.1	17.9	121.0	460.9	508.1	514.8	523.2	530.2
37.5°	5.6	4.2	4.9	5.3	6.3	8.8	12.7	39.4	438.8	496.1	503.8
40°	2.5	2.5	2.5	2.5	2.8	3.5	5.3	8.8	13.4	352.9	476.1
42.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.5	3.2	6.3	15.1	249.8
45°	1.4	1.4	1.1	1.4	1.4	1.8	2.1	2.1	2.8	9.5	17.2
47.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	2.1	6.3	9.1
50°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4.9	6.3
52.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	5.6
55°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.4	4.9
57.5°	0.7	0.7	0.7	0.7	0.7	1.1	0.7	0.7	1.1	1.1	4.6
60°	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1	4.2
62.5°	1.1	1.1	0.7	1.1	0.7	0.7	1.1	1.1	1.1	1.1	2.8
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.7	1.1
67.5°	1.1	1.1	1.1	1.1	0.7	1.1	0.7	1.1	1.1	0.7	0.7
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.7
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	0.7	0.7	0.7
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.8	2.1	1.8	1.8	0.7
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8	1.8	1.8	2.5
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4	1.8
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.1	1.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1199.8	1187.8	1184.0	1175.9	1175.2	1175.9	1174.1	1171.7	1173.1	1170.6	1168.5
5°	1334.2	1302.2	1281.4	1253.6	1215.3	1206.8	1204.7	1192.8	1188.5	1187.1	1181.5
7.5°	1225.5	1283.9	1319.1	1331.0	1286.0	1275.5	1263.1	1253.3	1243.8	1225.8	1214.9
10°	1177.3	1180.1	1213.9	1253.3	1317.3	1326.1	1332.8	1311.3	1305.4	1259.6	1249.8
12.5°	1166.0	1166.4	1170.2	1194.2	1244.5	1250.1	1273.7	1286.4	1301.8	1310.6	1303.6
15°	1114.7	1143.2	1164.3	1166.4	1171.0	1180.8	1187.8	1231.8	1250.5	1300.4	1297.6
17.5°	1090.7	1099.9	1130.5	1155.5	1151.2	1147.7	1153.4	1159.3	1177.3	1227.2	1226.5
20°	1051.0	1080.2	1096.7	1122.7	1146.3	1147.4	1141.0	1137.5	1130.5	1138.6	1146.0
22.5°	1034.1	1038.7	1069.6	1087.9	1114.7	1124.2	1125.6	1125.9	1122.0	1117.8	1115.7
25°	1032.3	1017.9	1033.7	1056.6	1076.3	1086.5	1098.1	1102.0	1100.6	1100.6	1098.5
27.5°	844.8	1013.3	1004.9	1020.0	1043.9	1051.0	1057.0	1068.9	1076.3	1081.6	1084.0
30°	804.7	834.9	982.4	984.5	1008.7	1008.0	1014.7	1024.6	1034.1	1046.4	1049.6
32.5°	711.8	786.0	899.3	948.9	974.3	976.7	980.2	983.1	991.9	1005.6	1017.5
35°	570.3	716.0	770.5	932.0	936.6	941.5	943.7	950.3	953.2	958.8	969.3
37.5°	516.2	591.8	739.2	806.1	893.3	897.6	908.8	911.6	916.2	920.8	928.9
40°	484.8	505.6	615.4	719.9	858.5	861.3	865.2	872.2	872.6	877.9	885.3
42.5°	459.9	473.2	505.3	687.5	833.9	833.5	824.4	829.0	831.1	836.7	846.9
45°	367.3	444.0	464.4	561.6	663.9	711.8	803.6	788.5	788.1	790.3	801.2
47.5°	18.6	417.6	432.1	463.4	627.0	628.8	640.7	741.3	756.8	751.9	753.0
50°	12.7	28.9	402.5	416.9	540.4	584.1	592.9	597.4	655.5	720.2	709.7
52.5°	9.9	16.5	246.6	387.0	439.1	471.1	527.8	560.1	563.7	589.7	678.0
55°	8.8	12.7	26.7	357.1	373.3	380.3	413.4	470.1	515.8	529.5	530.6
57.5°	7.7	11.6	18.3	161.5	339.5	340.9	346.6	366.3	407.4	445.1	487.7
60°	7.0	10.2	14.4	27.8	308.6	312.1	313.1	318.4	323.3	349.0	397.9
62.5°	4.2	8.1	12.7	20.1	244.2	280.4	280.1	283.6	288.2	291.0	300.8
65°	3.5	6.3	10.9	16.9	29.9	37.3	226.6	251.9	254.7	258.6	260.4
67.5°	3.2	5.6	8.1	13.4	22.5	25.7	29.6	36.6	199.8	225.2	228.7
70°	2.8	3.9	6.7	11.3	18.3	19.7	22.2	25.3	29.9	36.9	180.9
72.5°	1.8	2.8	4.6	8.1	14.1	15.8	17.2	19.4	21.5	25.7	29.6
75°	0.7	2.1	3.9	6.0	10.9	12.0	13.0	14.4	16.2	19.0	21.1
77.5°	0.7	1.8	3.2	4.2	7.0	8.1	9.5	10.6	12.0	13.4	15.5
80°	2.5	1.4	2.1	3.2	4.9	5.3	6.0	6.7	7.7	8.8	10.2
82.5°	1.8	2.1	2.5	2.1	2.5	3.2	3.5	4.2	4.6	5.3	5.6
85°	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.5	3.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1168.5	1167.8	1165.7	1165.7	1165.3	1166.7	1167.8	1168.8	1168.5	1170.6	1168.5
5°	1177.3	1175.5	1172.4	1169.5	1168.5	1169.2	1168.1	1169.2	1167.8	1169.5	1166.4
7.5°	1201.6	1195.6	1183.3	1178.3	1172.0	1171.7	1168.5	1167.8	1165.7	1165.7	1161.8
10°	1244.5	1215.6	1212.1	1197.3	1192.1	1166.4	1172.0	1162.5	1161.5	1156.9	1155.1
12.5°	1279.7	1257.2	1250.5	1237.5	1222.7	1170.6	1182.2	1161.8	1160.7	1151.6	1142.1
15°	1280.4	1293.4	1275.1	1239.2	1236.0	1200.2	1176.6	1169.5	1160.4	1133.0	1137.5
17.5°	1239.2	1269.1	1277.9	1270.2	1247.7	1223.4	1190.3	1176.2	1148.8	1136.5	1128.0
20°	1172.4	1202.6	1240.3	1242.7	1256.8	1239.6	1196.3	1173.4	1140.3	1118.9	1111.8
22.5°	1119.2	1141.4	1184.7	1204.7	1222.0	1228.0	1200.5	1166.7	1125.6	1104.8	1100.6
25°	1091.1	1096.0	1109.0	1132.6	1170.6	1198.0	1201.9	1166.0	1144.6	1099.2	1075.2
27.5°	1080.9	1076.7	1071.4	1083.3	1111.8	1145.3	1167.4	1173.4	1119.9	1076.7	1052.7
30°	1054.8	1057.3	1049.2	1045.0	1063.6	1098.1	1137.5	1147.4	1106.2	1061.5	1034.1
32.5°	1022.8	1027.0	1028.5	1021.1	1017.2	1041.1	1083.7	1107.3	1105.2	1040.1	1009.5
35°	982.7	994.7	997.8	998.2	991.9	988.0	1012.6	1061.5	1080.2	1030.2	985.9
37.5°	940.5	944.0	961.3	965.8	965.8	954.2	972.5	1011.6	1037.6	1008.0	957.0
40°	887.7	899.0	915.2	923.3	931.3	932.4	922.2	949.6	992.6	985.2	929.9
42.5°	849.4	856.8	866.6	877.5	894.0	898.3	887.7	892.6	937.3	956.7	894.8
45°	804.7	814.5	817.3	829.3	846.5	858.9	858.5	848.3	884.2	908.1	869.1
47.5°	758.9	768.4	773.4	779.3	792.0	807.8	816.6	812.1	819.1	865.9	834.9
50°	711.8	717.1	726.9	733.6	742.0	751.2	772.3	776.5	766.7	804.0	797.3
52.5°	667.1	668.9	675.5	682.2	693.5	700.2	717.1	729.7	729.0	739.9	755.4
55°	632.3	624.5	625.9	631.2	638.6	648.8	658.3	678.0	684.7	686.8	711.4
57.5°	494.0	573.5	580.5	580.2	589.0	593.6	602.4	615.4	639.3	634.0	661.5
60°	449.0	457.8	524.3	532.0	535.2	539.4	549.9	561.9	579.5	590.8	602.7
62.5°	342.3	395.8	415.9	474.6	483.8	486.3	493.3	498.9	517.2	542.9	538.0
65°	264.9	287.8	349.0	373.0	422.9	429.3	439.1	445.1	450.4	479.9	481.3
67.5°	229.1	232.6	249.1	295.2	326.9	375.8	381.8	387.0	395.1	416.2	429.3
70°	195.6	199.8	204.4	208.3	249.5	281.8	327.2	329.0	334.3	348.3	377.9
72.5°	36.9	167.1	169.9	172.4	177.0	198.4	241.7	276.9	279.0	285.7	312.8
75°	25.0	29.2	40.1	137.9	142.5	143.9	151.3	195.3	227.6	229.1	241.0
77.5°	17.9	20.1	24.3	28.9	73.5	110.5	112.2	120.3	153.8	178.0	180.1
80°	12.3	13.7	16.2	18.3	22.5	29.6	81.6	84.1	88.3	121.7	128.1
82.5°	7.0	8.1	9.5	11.6	13.4	16.9	21.8	28.1	57.4	61.2	81.3
85°	3.5	3.9	4.6	5.6	6.7	8.1	10.9	13.4	18.3	33.1	34.1
87.5°	1.8	1.8	1.8	1.8	2.8	3.2	3.9	4.9	6.3	9.5	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1168.8	1173.8	1178.0	1179.0	1179.0	1179.7	1180.8	1181.5	1182.2	1182.9	1182.2
5°	1166.7	1172.0	1175.5	1176.6	1176.6	1178.7	1180.5	1182.6	1183.6	1183.6	1182.9
7.5°	1161.5	1165.3	1169.9	1172.7	1173.1	1176.6	1179.7	1179.4	1180.8	1181.5	1183.3
10°	1154.4	1154.4	1162.2	1164.3	1166.0	1169.9	1171.0	1173.1	1178.0	1178.7	1183.3
12.5°	1150.9	1147.4	1156.5	1157.6	1163.6	1158.6	1165.0	1167.1	1162.2	1168.8	1160.0
15°	1135.1	1139.3	1137.9	1141.0	1151.6	1146.0	1163.2	1157.6	1170.2	1155.1	1181.9
17.5°	1122.0	1121.3	1127.0	1129.8	1131.9	1143.9	1148.4	1154.8	1159.7	1155.5	1166.0
20°	1112.5	1106.9	1111.1	1114.3	1121.7	1130.8	1133.7	1124.2	1140.7	1168.8	1175.5
22.5°	1094.6	1090.7	1095.7	1095.7	1106.9	1105.5	1116.1	1110.1	1125.6	1158.3	1192.4
25°	1070.3	1070.7	1076.0	1082.3	1084.4	1100.2	1105.9	1113.6	1133.0	1172.0	1192.8
27.5°	1045.7	1043.6	1046.7	1059.8	1070.7	1082.3	1084.0	1110.4	1136.8	1163.6	1181.9
30°	1021.1	1019.0	1021.1	1030.6	1043.6	1051.3	1070.7	1105.9	1130.5	1148.8	1166.0
32.5°	994.7	992.6	997.5	1004.5	1027.4	1028.5	1066.8	1099.9	1119.2	1132.6	1129.4
35°	966.5	963.7	968.3	979.2	1000.3	1008.0	1048.2	1072.8	1094.6	1100.9	1086.2
37.5°	932.8	927.8	933.5	948.6	970.7	993.3	1026.7	1055.2	1066.8	1049.9	1032.3
40°	897.6	894.0	903.9	911.6	937.7	969.0	1007.3	1027.4	1020.0	1000.7	981.3
42.5°	866.3	858.9	867.7	882.4	912.0	947.5	978.5	989.7	972.2	943.7	921.1
45°	827.9	819.1	829.7	849.4	881.0	921.5	945.8	941.9	912.0	887.4	856.4
47.5°	787.8	777.2	787.8	811.4	846.9	889.8	907.4	889.8	852.2	821.2	796.2
50°	748.4	736.1	746.3	781.8	816.6	849.7	849.4	815.2	792.7	758.9	737.1
52.5°	709.3	691.7	701.9	740.6	775.5	813.1	785.3	753.7	726.6	697.0	690.0
55°	661.1	642.1	655.8	712.1	738.9	761.0	716.7	688.9	662.2	647.4	638.6
57.5°	615.4	594.6	606.6	673.1	692.8	698.4	657.6	618.2	602.4	597.4	584.8
60°	568.2	544.7	555.9	632.6	646.3	623.5	583.4	552.8	549.6	539.7	529.9
62.5°	523.2	497.2	504.2	582.3	588.6	547.1	510.2	502.1	494.3	484.5	479.2
65°	471.5	444.4	454.2	528.8	522.8	469.4	448.6	446.8	436.6	428.6	436.3
67.5°	424.0	392.0	405.7	470.4	443.3	399.7	391.3	387.0	378.9	383.5	302.2
70°	371.9	337.1	355.7	407.4	367.3	338.5	335.3	329.0	329.3	261.8	220.6
72.5°	313.8	283.6	310.7	338.5	290.6	282.2	277.6	276.9	223.4	181.6	171.4
75°	262.8	232.2	261.4	272.0	231.5	225.9	225.5	186.5	146.7	140.0	136.9
77.5°	205.1	181.6	209.3	193.5	177.7	171.4	153.8	115.4	110.5	105.9	39.8
80°	138.3	140.0	156.2	133.4	126.7	108.0	85.1	81.6	70.4	28.1	22.2
82.5°	84.1	105.6	99.6	83.4	81.6	58.8	53.8	27.4	20.4	16.2	14.1
85°	43.6	53.5	51.4	45.4	33.8	30.3	16.9	13.0	10.6	8.1	6.7
87.5°	14.8	19.7	19.0	15.1	11.6	9.1	6.0	4.9	3.5	2.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1181.5	1181.5	1180.8	1181.5	1181.9	1181.2	1181.2	1181.9	1182.2	1182.6	1184.3
5°	1183.3	1184.0	1185.0	1187.1	1187.5	1191.7	1193.5	1194.5	1195.6	1195.9	1193.5
7.5°	1187.1	1189.6	1191.7	1191.4	1188.9	1182.2	1180.1	1178.3	1181.5	1189.6	1199.1
10°	1190.7	1179.4	1158.3	1187.1	1178.3	1186.4	1210.4	1215.6	1231.8	1254.7	1261.4
12.5°	1166.4	1197.3	1204.0	1171.7	1231.5	1209.3	1235.7	1258.9	1265.6	1288.8	1274.7
15°	1192.4	1207.5	1217.7	1250.1	1246.6	1265.6	1273.0	1268.4	1269.5	1275.5	1291.3
17.5°	1192.1	1222.3	1229.0	1250.8	1265.6	1266.0	1263.8	1261.7	1267.4	1271.9	1262.4
20°	1212.5	1222.3	1235.3	1244.1	1247.0	1250.5	1257.2	1251.9	1241.3	1231.1	1226.9
22.5°	1202.3	1224.4	1235.7	1237.1	1235.3	1224.4	1214.6	1199.8	1194.9	1189.6	1191.4
25°	1204.4	1214.6	1213.2	1207.5	1200.2	1179.7	1174.8	1168.5	1159.0	1136.1	1115.4
27.5°	1189.2	1184.0	1177.6	1163.9	1150.5	1139.6	1127.3	1106.9	1090.0	1065.4	1056.2
30°	1163.9	1142.8	1127.3	1119.2	1106.2	1087.9	1069.3	1044.3	1022.8	1017.9	1013.3
32.5°	1115.4	1094.6	1081.9	1062.2	1040.1	1018.2	996.8	986.9	982.4	983.1	978.8
35°	1065.7	1047.5	1028.5	998.9	982.4	960.5	952.8	950.7	946.5	941.9	937.0
37.5°	1013.0	991.5	963.0	945.4	928.9	920.1	916.2	913.0	905.7	897.6	891.9
40°	962.0	923.3	907.4	890.2	885.3	881.4	875.8	868.0	857.8	856.4	853.9
42.5°	893.7	865.9	852.2	848.7	842.7	836.0	831.1	822.6	818.4	821.2	823.3
45°	829.0	814.9	810.3	806.1	794.8	785.3	782.2	779.3	782.9	798.3	761.4
47.5°	776.5	770.9	765.3	758.2	747.7	740.6	743.8	746.6	749.8	636.1	580.5
50°	731.1	723.4	714.6	706.9	700.5	699.8	716.4	666.8	558.4	555.6	499.3
52.5°	681.5	669.9	664.6	660.1	662.9	673.4	557.3	517.2	496.1	431.0	402.2
55°	628.0	617.8	617.8	622.1	606.9	491.9	485.9	420.1	380.3	369.1	364.5
57.5°	574.6	573.5	579.5	529.9	446.5	428.2	359.9	345.5	339.2	337.8	330.4
60°	525.7	535.5	448.3	412.4	358.5	323.3	313.5	311.7	305.1	302.6	295.9
62.5°	486.6	403.6	375.8	306.8	288.9	284.3	279.0	276.6	270.6	238.9	70.0
65°	351.5	332.1	269.5	257.9	256.5	249.8	247.7	222.7	52.4	35.2	29.9
67.5°	265.3	235.4	227.3	225.2	218.5	205.1	60.9	34.8	29.9	26.0	22.9
70°	203.7	198.4	192.5	187.5	55.2	34.5	29.9	25.3	21.8	19.4	17.6
72.5°	166.8	163.3	95.0	36.2	29.6	25.0	22.2	19.4	16.9	15.5	14.1
75°	130.5	36.2	29.9	25.0	21.5	18.3	16.2	14.4	13.0	12.0	10.9
77.5°	29.6	23.9	20.4	17.2	15.5	13.7	12.3	10.6	9.5	8.4	7.0
80°	18.3	15.8	13.4	12.3	10.6	8.8	7.7	7.0	5.6	5.3	4.6
82.5°	12.0	9.5	8.4	7.0	5.6	5.3	4.6	3.5	3.2	2.8	2.5
85°	5.3	4.6	3.9	3.2	2.5	2.1	1.8	1.4	1.4	1.4	1.4
87.5°	1.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1185.0	1191.4	1197.3	1195.6	1189.2	1179.4	1176.6	1172.7	1175.5	1181.5	1184.0
5°	1193.5	1190.0	1202.6	1221.3	1251.5	1254.3	1275.5	1280.4	1297.3	1307.8	1307.5
7.5°	1205.4	1255.4	1276.2	1298.7	1308.9	1306.4	1309.6	1307.1	1303.2	1301.5	1299.4
10°	1266.3	1304.3	1312.0	1312.0	1296.2	1274.7	1265.6	1249.8	1218.1	1218.8	1213.5
12.5°	1301.8	1315.2	1296.9	1281.4	1217.7	1193.1	1166.4	1153.7	1146.3	1135.1	1139.3
15°	1283.2	1264.2	1253.3	1203.3	1164.3	1119.9	1120.6	1112.9	1104.8	1105.5	1100.2
17.5°	1255.7	1240.6	1163.2	1128.7	1109.7	1092.5	1089.3	1079.1	1073.8	1072.1	1071.7
20°	1218.1	1163.6	1105.9	1097.4	1074.5	1054.8	1051.7	1054.8	1071.0	1042.2	944.4
22.5°	1174.1	1095.7	1078.8	1054.8	1039.4	1031.6	1051.0	963.0	830.0	846.2	829.0
25°	1099.5	1065.4	1036.5	1018.2	1016.5	969.0	807.5	790.6	705.1	659.4	608.0
27.5°	1045.0	1030.2	1000.0	996.8	973.9	792.4	708.3	615.4	581.3	576.0	564.7
30°	1011.9	990.8	972.5	892.6	777.2	637.9	568.2	555.2	549.2	542.9	533.1
32.5°	972.2	952.1	960.9	750.5	619.6	549.2	535.2	525.7	514.8	510.5	475.0
35°	931.7	922.5	750.8	630.9	532.7	515.8	505.3	495.4	394.1	95.4	32.4
37.5°	888.4	886.3	674.8	523.6	498.9	483.1	453.2	93.6	22.2	15.1	11.3
40°	854.6	675.2	533.4	490.8	470.8	445.8	62.6	15.5	9.9	6.0	3.9
42.5°	832.1	607.3	477.5	460.6	416.9	46.1	15.8	6.7	3.9	3.2	2.5
45°	641.4	479.6	446.1	428.6	52.8	15.8	9.1	3.2	2.5	2.1	1.4
47.5°	591.8	435.6	415.9	93.6	17.6	8.4	6.3	2.1	1.4	1.4	1.4
50°	448.3	402.5	331.1	22.9	11.3	6.0	4.6	1.4	1.4	1.4	1.1
52.5°	393.0	371.6	35.5	15.1	8.8	4.6	2.8	1.1	1.1	1.1	1.1
55°	359.2	235.7	21.1	11.6	7.4	4.2	1.8	1.1	1.1	1.1	0.7
57.5°	328.6	31.7	15.5	9.9	6.7	3.9	1.1	1.1	1.1	1.1	0.7
60°	278.7	22.9	12.7	8.8	6.3	3.5	1.1	1.1	1.1	1.1	1.1
62.5°	36.2	17.9	10.9	7.7	4.6	2.8	0.7	1.1	1.1	1.1	1.1
65°	26.4	14.1	9.9	5.3	2.8	1.1	0.7	1.1	1.1	1.1	1.1
67.5°	20.4	11.6	7.4	4.6	2.5	0.7	0.7	1.1	1.1	1.1	1.1
70°	16.2	9.9	6.0	3.9	2.1	0.7	0.7	1.1	1.1	1.1	1.1
72.5°	12.7	7.0	4.2	2.1	1.4	0.7	0.7	1.1	1.1	1.1	1.1
75°	9.5	5.6	3.2	1.8	0.7	0.7	0.7	1.1	1.1	1.1	1.1
77.5°	6.3	3.5	2.5	1.4	1.4	1.4	1.8	1.8	1.1	1.1	1.1
80°	4.2	2.5	1.8	1.8	1.8	1.4	1.8	1.8	1.1	1.8	1.1
82.5°	2.1	1.8	1.8	1.4	1.4	1.1	1.4	1.4	1.4	1.4	1.1
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.1
87.5°	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.4	1.4	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1180.8	1181.9	1179.0	1194.2	1186.4	1187.1	1190.3	1182.2	1184.0	1178.3	1174.5
5°	1308.9	1311.0	1313.1	1313.8	1315.2	1317.0	1314.9	1313.8	1311.7	1304.7	1297.3
7.5°	1288.8	1286.4	1285.3	1286.7	1289.2	1290.2	1288.5	1290.9	1300.1	1304.0	1306.4
10°	1183.3	1172.0	1179.7	1178.7	1169.9	1199.5	1191.4	1195.9	1199.1	1231.5	1251.2
12.5°	1133.0	1140.0	1126.6	1119.9	1128.7	1134.7	1140.7	1128.0	1145.6	1137.5	1163.6
15°	1090.7	1086.5	1085.1	1085.5	1083.7	1092.1	1094.2	1097.1	1099.5	1110.4	1114.7
17.5°	1071.7	1078.8	1081.6	1083.7	1080.2	1076.3	1072.4	1066.8	1068.6	1065.7	1073.8
20°	878.6	855.0	853.6	867.3	852.2	860.6	881.0	1017.5	1013.0	1066.1	1048.2
22.5°	733.3	711.1	692.1	675.5	699.1	709.0	747.0	789.9	859.6	848.7	924.3
25°	598.8	590.8	585.8	583.4	585.1	584.4	592.9	612.9	644.6	719.2	815.6
27.5°	560.1	556.3	554.5	548.9	553.1	551.7	558.4	562.6	572.1	579.5	610.8
30°	529.5	525.0	521.8	515.8	520.0	520.4	522.5	533.4	537.3	543.6	553.5
32.5°	193.5	114.0	107.0	101.7	111.2	145.0	254.4	444.7	507.4	512.3	523.6
35°	19.0	15.8	14.1	14.1	14.4	15.8	21.1	55.6	101.7	393.0	491.9
37.5°	7.4	6.3	5.3	4.9	5.3	6.0	8.1	10.6	14.4	29.9	133.4
40°	3.2	2.8	2.5	2.5	2.5	2.5	2.8	3.5	5.3	9.9	15.5
42.5°	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.5	3.2	6.3
45°	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.8	2.8
47.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
50°	1.1	1.1	1.1	1.1	0.7	1.1	0.7	1.1	1.1	1.1	1.1
52.5°	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1
55°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	1.1	1.1	0.7	1.1	0.7	0.7	1.1	1.1	1.1	0.7	0.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	1.4
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	2.1	1.8
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8	1.8
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1167.8	1167.4	1174.8	1180.5	1178.3	1180.5	1182.9	1183.3	1184.0	1181.2	1180.1
5°	1283.2	1272.3	1251.2	1236.0	1218.5	1186.4	1170.6	1172.4	1172.7	1171.7	1173.1
7.5°	1305.4	1304.3	1296.9	1293.7	1281.8	1258.9	1222.3	1216.0	1200.5	1190.7	1182.6
10°	1249.8	1275.1	1281.8	1293.0	1300.1	1295.9	1264.9	1260.3	1250.5	1239.2	1241.7
12.5°	1189.6	1210.4	1211.4	1272.6	1286.4	1287.8	1275.8	1282.1	1283.5	1258.2	1243.4
15°	1115.7	1125.6	1146.3	1203.3	1244.8	1270.9	1278.6	1282.1	1264.9	1263.8	1257.9
17.5°	1083.3	1089.7	1099.2	1131.2	1194.2	1232.5	1265.2	1262.8	1269.5	1264.5	1249.4
20°	1042.5	1047.8	1064.7	1080.9	1111.8	1162.9	1224.1	1228.7	1237.5	1236.4	1240.6
22.5°	1041.8	1023.2	1026.0	1038.7	1071.0	1116.8	1181.9	1197.0	1202.6	1206.5	1211.1
25°	826.5	974.6	1001.7	1009.8	1030.9	1057.7	1134.4	1140.0	1150.5	1167.8	1180.5
27.5°	716.0	816.6	925.0	981.3	994.7	1016.8	1062.6	1071.0	1106.9	1111.1	1130.8
30°	565.1	642.8	804.7	940.1	962.3	977.8	1010.2	1027.0	1042.5	1059.4	1080.2
32.5°	531.6	544.0	633.7	777.9	950.3	938.7	962.7	972.9	989.7	1004.5	1019.7
35°	501.0	509.5	528.5	637.2	774.1	906.7	922.9	929.6	939.1	950.3	961.3
37.5°	469.0	481.7	494.7	523.9	716.0	881.4	881.0	888.8	894.4	903.9	913.0
40°	85.1	442.3	463.4	482.4	555.2	703.0	841.6	845.1	849.0	855.0	864.5
42.5°	13.7	73.9	434.2	452.5	473.2	629.5	823.7	809.3	806.8	811.0	819.5
45°	7.0	17.9	87.3	422.6	441.2	502.1	673.4	784.3	781.8	773.7	775.5
47.5°	5.3	11.3	21.5	146.0	413.1	431.0	621.4	614.7	661.5	751.2	737.5
50°	4.6	7.7	12.7	29.9	364.9	396.9	478.5	559.1	583.7	586.9	694.5
52.5°	4.2	5.3	9.1	19.4	76.7	367.0	389.1	417.3	458.8	547.8	545.7
55°	3.9	4.9	7.7	13.0	26.7	330.7	353.6	358.9	367.7	410.3	466.6
57.5°	2.1	4.6	7.4	11.3	20.1	60.5	320.9	325.1	332.1	333.9	354.0
60°	1.1	4.2	6.7	9.9	14.8	28.1	288.5	293.4	297.7	298.4	304.7
62.5°	0.7	3.9	5.6	9.1	12.3	20.1	68.3	139.3	264.9	264.9	272.3
65°	0.7	2.8	3.5	6.0	11.3	16.5	28.9	33.4	65.1	160.1	238.9
67.5°	0.7	1.1	3.2	4.9	8.4	12.7	21.1	24.6	29.6	33.8	62.6
70°	0.7	0.7	2.8	3.2	5.3	9.5	15.1	17.2	20.1	22.9	26.4
72.5°	0.7	0.7	2.5	2.5	3.5	6.3	11.6	12.7	14.4	16.2	18.6
75°	1.8	1.4	2.1	2.1	2.5	4.9	8.8	9.9	10.6	12.0	13.7
77.5°	1.8	1.8	1.8	1.8	1.8	3.2	5.6	6.3	7.4	8.1	9.5
80°	1.4	1.4	1.4	1.8	1.8	2.1	3.5	3.9	4.2	5.3	5.6
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.5	3.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4
87.5°	1.1	1.1	1.1	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1
90°	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: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1179.7	1177.6	1175.9	1176.9	1173.8	1172.4	1173.4	1173.8	1174.5	1176.2	1176.6
5°	1176.6	1175.9	1179.0	1180.8	1180.1	1180.8	1180.8	1179.4	1177.3	1178.7	1175.5
7.5°	1174.5	1169.9	1166.4	1167.1	1163.6	1167.8	1171.7	1177.3	1179.0	1179.0	1175.5
10°	1210.7	1205.8	1186.1	1172.7	1163.9	1156.2	1174.5	1155.8	1164.6	1131.2	1169.5
12.5°	1240.6	1247.3	1238.5	1201.9	1195.6	1172.4	1185.7	1162.9	1156.2	1117.8	1130.1
15°	1252.6	1239.9	1237.1	1226.9	1213.2	1206.5	1170.6	1166.7	1155.8	1160.0	1143.9
17.5°	1242.0	1248.4	1239.9	1233.2	1219.2	1203.3	1181.9	1162.9	1147.7	1114.0	1142.5
20°	1231.8	1240.3	1214.9	1219.2	1220.6	1202.3	1191.0	1175.2	1156.2	1124.5	1099.9
22.5°	1214.9	1209.0	1211.1	1204.7	1199.5	1201.9	1186.4	1175.5	1143.5	1129.1	1095.7
25°	1187.5	1185.4	1191.0	1190.3	1177.6	1173.4	1165.7	1154.1	1141.4	1118.2	1090.7
27.5°	1142.8	1153.7	1163.6	1168.1	1161.5	1150.2	1146.0	1139.3	1130.5	1106.9	1086.5
30°	1095.7	1108.0	1119.2	1129.1	1135.1	1130.1	1126.3	1122.4	1109.0	1093.5	1070.7
32.5°	1041.8	1058.0	1073.5	1085.5	1098.5	1102.3	1099.5	1096.4	1085.1	1071.0	1052.7
35°	979.5	1001.7	1024.2	1045.7	1051.3	1060.5	1069.6	1064.3	1058.4	1044.3	1027.4
37.5°	926.8	942.6	958.8	985.9	1005.6	1017.2	1033.4	1035.5	1025.3	1018.6	996.4
40°	872.2	886.7	910.2	926.1	953.2	966.5	983.8	991.5	989.0	985.2	965.8
42.5°	829.3	836.3	851.8	865.9	892.6	920.1	935.2	943.7	952.5	949.3	939.4
45°	783.6	789.9	795.2	807.5	833.5	857.8	876.5	889.1	905.0	912.3	900.4
47.5°	738.2	739.9	746.3	756.5	772.0	790.6	821.9	840.9	855.7	870.1	862.4
50°	703.3	697.0	698.1	704.4	717.1	735.4	757.9	784.6	801.5	819.1	820.9
52.5°	614.7	666.0	653.7	657.3	663.9	672.7	696.3	722.7	743.5	758.6	773.7
55°	515.8	526.0	624.9	610.8	615.0	622.8	633.7	660.1	680.1	701.2	722.3
57.5°	400.1	476.1	479.9	571.4	569.3	570.0	579.1	594.3	614.3	640.7	658.7
60°	311.0	343.1	405.3	437.0	517.2	520.0	525.3	534.1	551.3	576.3	604.8
62.5°	274.4	278.7	300.8	348.3	400.4	463.4	474.6	476.1	483.8	508.8	541.8
65°	241.0	243.8	250.5	255.4	299.1	359.9	414.1	422.9	427.8	442.6	470.8
67.5°	166.1	210.1	216.0	219.6	223.8	251.9	319.1	363.8	369.4	382.5	407.1
70°	32.0	66.5	181.9	185.8	187.9	194.2	205.1	276.2	313.5	325.8	337.1
72.5°	21.8	25.7	31.0	73.2	154.8	158.3	160.8	169.9	232.9	268.8	274.8
75°	15.8	17.6	20.8	25.7	31.7	103.1	127.7	132.3	136.9	188.9	219.2
77.5°	11.3	12.7	14.1	16.5	19.4	25.0	35.9	98.9	103.4	105.9	149.5
80°	6.3	7.7	9.5	10.9	12.3	14.1	18.3	22.9	51.0	74.6	78.5
82.5°	3.5	4.2	4.9	6.0	6.7	8.4	10.2	12.3	16.2	23.9	50.7
85°	1.8	1.8	1.8	2.5	2.8	3.9	4.6	5.3	7.4	10.2	14.1
87.5°	1.1	1.1	1.4	1.4	1.4	1.8	1.8	1.8	2.1	3.2	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213672

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1176.9	1175.9	1175.9	1180.1	1179.0
5°	1174.8	1173.8	1173.4	1178.0	1175.9
7.5°	1173.1	1169.2	1168.1	1172.4	1170.6
10°	1166.0	1163.2	1165.0	1163.6	1162.9
12.5°	1154.1	1152.3	1144.9	1145.6	1151.6
15°	1132.6	1139.6	1127.0	1138.2	1140.7
17.5°	1093.2	1109.0	1121.3	1128.0	1129.1
20°	1110.8	1116.1	1109.7	1110.1	1114.3
22.5°	1087.9	1090.4	1092.1	1090.0	1099.2
25°	1051.3	1041.8	1062.2	1066.5	1081.2
27.5°	1040.1	1032.3	1041.8	1041.1	1053.4
30°	1030.9	1005.9	1010.2	1016.8	1032.0
32.5°	1017.9	978.5	974.3	989.0	1005.9
35°	995.0	957.7	947.9	957.4	982.7
37.5°	975.7	928.9	909.2	921.8	954.9
40°	946.8	906.4	875.8	887.0	926.1
42.5°	912.3	887.0	839.9	847.6	892.3
45°	877.5	855.0	805.0	808.9	862.0
47.5°	842.0	821.2	768.8	769.5	823.3
50°	807.1	779.7	736.4	724.1	782.2
52.5°	761.8	736.4	703.7	683.6	743.1
55°	718.8	690.3	666.4	635.4	698.8
57.5°	677.0	645.3	629.1	589.3	648.5
60°	619.6	604.5	580.5	542.6	603.1
62.5°	560.8	555.9	531.6	492.2	547.1
65°	492.2	503.8	478.9	445.1	489.1
67.5°	427.5	448.3	420.8	400.1	433.1
70°	358.5	382.5	367.0	359.6	373.7
72.5°	290.6	313.8	315.3	310.0	314.6
75°	224.5	250.2	264.2	256.1	257.2
77.5°	170.3	182.6	198.1	204.4	203.0
80°	105.2	126.7	139.3	152.4	147.8
82.5°	53.1	71.1	86.6	100.6	93.9
85°	22.2	28.5	39.8	52.4	50.3
87.5°	6.7	11.3	12.0	16.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)