

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: P1213321

Luminaire Tested: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213321
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-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

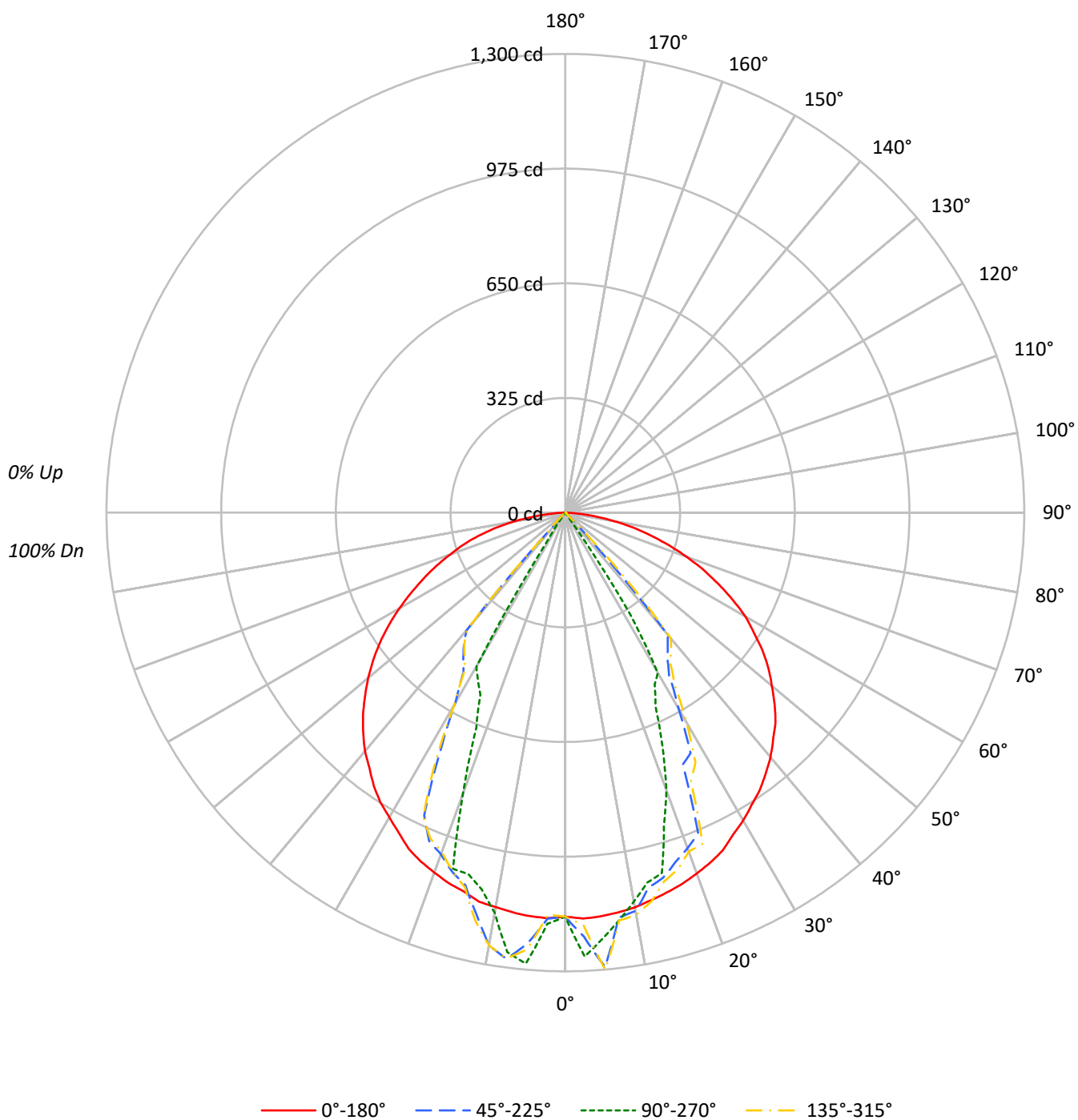
Lumens per Lamp: N/A
Luminaire Lumens: 1628.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

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°	18504	18504	18504	18504
5°	18530	19032	18524	20155
10°	18435	17221	18424	17718
15°	18333	16074	18288	16117
20°	18300	12661	18248	12817
25°	18296	9162	18208	8646
30°	18153	8037	17962	7726
35°	18141	177	17875	214
40°	18130	39	17697	39
45°	18111	23	17429	17
50°	17876	17	17054	17
55°	17653	13	16569	13
60°	17179	14	15835	14
65°	16106	21	14959	15
70°	14716	23	14010	23
75°	12719	26	12927	26
80°	9916	30	10486	30
85°	5311	35	5430	35

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 19561 cd/sqm

TEST NUMBER: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	7.1
10°-20°	313.3	19.2
20°-30°	398.7	24.5
30°-40°	336.8	20.7
40°-50°	220.2	13.5
50°-60°	138.7	8.5
60°-70°	73.8	4.5
70°-80°	26.9	1.7
80°-90°	4.6	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°	826.9	50.8
0°-40°	1163.7	71.5
0°-60°	1522.6	93.5
0°-90°	1628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1148	1212	1148	1283	1148	109
15°	1114	1057	1111	1060	1114	315
25°	1056	604	1051	570	1056	486
35°	960	11	946	14	960	600
45°	842	1	810	1	842	647
55°	682	1	640	1	682	608
65°	478	1	444	1	478	473
75°	251	1	255	1	251	267
85°	49	1	50	1	49	62
90°	0	0	0	0	0	

TEST NUMBER: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1151.5	1152.1	1152.5	1153.2	1154.2	1154.6	1155.2	1154.6	1154.6	1154.6	1154.6
5°	1148.4	1149.7	1150.8	1152.1	1154.6	1154.9	1157.6	1158.0	1159.4	1162.1	1164.2
7.5°	1143.2	1144.6	1146.6	1150.1	1153.5	1157.3	1162.1	1167.3	1174.5	1181.4	1189.9
10°	1135.7	1137.4	1139.8	1142.9	1159.7	1162.1	1172.8	1187.5	1191.7	1213.3	1229.5
12.5°	1124.7	1130.5	1136.7	1139.4	1155.6	1181.0	1216.7	1209.5	1201.6	1272.4	1271.4
15°	1114.0	1121.9	1118.8	1141.2	1155.9	1200.3	1185.1	1217.4	1276.5	1262.1	1262.8
17.5°	1102.7	1104.4	1121.6	1140.1	1166.6	1189.3	1207.8	1252.1	1263.8	1264.9	1252.1
20°	1088.2	1096.5	1121.6	1138.4	1183.1	1193.7	1233.9	1256.6	1251.8	1240.1	1218.5
22.5°	1073.5	1098.5	1124.0	1147.7	1178.9	1207.5	1227.4	1238.1	1213.0	1166.9	1142.2
25°	1055.9	1070.7	1104.0	1138.7	1177.9	1194.4	1206.1	1188.9	1156.3	1115.0	1073.5
27.5°	1028.8	1052.5	1095.1	1134.3	1169.7	1189.6	1170.7	1129.5	1076.9	1049.7	1030.9
30°	1007.8	1038.8	1073.8	1111.6	1148.4	1160.1	1111.9	1064.9	1028.8	1001.6	997.5
32.5°	982.4	1026.4	1059.7	1095.8	1126.7	1111.3	1064.5	1003.7	973.8	963.5	967.6
35°	959.7	993.1	1036.7	1072.1	1094.4	1059.7	985.8	948.0	933.6	939.4	931.9
37.5°	932.6	976.6	1016.8	1047.3	1039.8	987.6	925.0	901.0	902.7	897.9	883.4
40°	904.4	946.3	988.2	1017.1	990.6	910.9	869.4	864.2	865.2	849.8	829.1
42.5°	871.4	909.6	951.5	977.6	920.5	858.4	830.2	830.9	821.9	800.3	789.3
45°	841.9	876.9	920.5	923.0	852.9	801.0	792.7	783.8	763.9	756.6	748.4
47.5°	804.1	842.9	879.0	865.9	786.5	754.2	748.1	728.5	718.5	713.0	706.1
50°	763.9	803.0	836.0	798.9	724.0	716.4	696.2	680.7	673.8	668.0	661.8
52.5°	725.7	758.0	791.7	727.8	675.9	668.7	645.7	636.7	629.8	623.3	621.9
55°	682.4	710.9	734.0	660.1	629.8	613.0	596.5	590.3	583.8	580.7	585.9
57.5°	633.3	665.6	662.1	593.4	580.0	555.6	549.4	545.3	540.5	542.6	499.6
60°	589.0	613.7	596.9	544.6	522.0	505.5	500.0	497.2	500.0	458.0	402.7
62.5°	534.3	562.2	528.1	487.6	463.5	455.6	450.8	454.6	414.4	368.4	355.0
65°	477.6	507.9	457.7	426.4	411.3	404.4	404.1	372.1	332.6	314.8	314.8
67.5°	423.0	454.3	389.7	363.5	357.7	358.4	338.5	290.0	279.0	267.0	232.3
70°	364.9	392.4	322.0	306.2	302.7	300.3	251.9	238.8	225.8	193.8	191.1
72.5°	307.2	320.6	258.7	255.0	254.3	211.3	201.7	179.4	164.2	160.5	158.8
75°	251.2	247.1	204.5	207.9	175.2	160.1	144.7	131.6	129.5	128.2	32.0
77.5°	198.3	177.6	161.2	140.2	125.4	106.5	103.4	101.4	66.7	24.1	19.6
80°	144.3	115.1	107.2	91.1	77.7	74.6	76.3	23.4	18.6	15.5	13.4
82.5°	91.7	73.5	60.1	52.6	51.2	22.3	16.5	13.4	11.7	10.0	8.2
85°	49.1	32.6	30.2	25.4	15.1	10.3	8.6	6.5	5.5	4.5	4.1
87.5°	15.5	13.1	10.7	8.6	5.2	3.4	2.7	2.4	2.1	1.7	1.7
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1153.9	1154.6	1154.2	1155.2	1155.2	1156.6	1157.6	1158.7	1160.7	1161.8	1169.7
5°	1168.6	1170.4	1175.5	1180.3	1186.2	1187.9	1197.8	1200.3	1211.9	1213.3	1251.8
7.5°	1201.6	1208.2	1220.5	1232.9	1245.3	1253.2	1266.9	1275.5	1284.8	1293.0	1323.6
10°	1241.5	1252.5	1264.5	1276.9	1284.1	1299.2	1307.5	1308.8	1306.4	1293.0	1243.5
12.5°	1280.7	1291.7	1286.5	1288.9	1297.5	1270.7	1274.5	1255.2	1268.6	1202.3	1153.2
15°	1275.2	1274.5	1261.8	1220.5	1227.4	1176.2	1155.6	1139.8	1152.5	1145.6	1138.1
17.5°	1258.7	1227.4	1205.4	1155.9	1135.0	1120.5	1120.9	1121.2	1115.0	1121.6	1102.3
20°	1188.9	1153.9	1121.2	1103.7	1097.5	1087.2	1092.4	1087.2	1087.5	1089.6	1060.1
22.5°	1096.1	1085.5	1066.6	1072.1	1070.0	1079.3	1072.4	1061.8	1065.2	1049.7	1027.4
25°	1058.7	1046.3	1045.6	1047.7	1044.6	1040.5	1034.3	1018.1	1017.1	1012.3	1002.0
27.5°	1020.9	1021.6	1023.6	1017.4	1006.5	998.2	988.9	981.0	984.1	978.6	964.5
30°	994.8	994.4	982.1	976.6	956.3	956.6	954.2	949.4	946.3	946.7	937.7
32.5°	957.7	947.0	932.9	926.0	924.3	918.1	913.3	914.4	916.8	908.2	917.5
35°	919.5	897.5	895.5	889.6	884.1	880.0	881.7	874.8	874.5	873.5	797.9
37.5°	868.3	857.7	856.6	850.5	846.7	845.6	839.1	840.1	843.2	848.7	680.4
40°	826.1	816.4	814.0	813.7	805.4	804.8	806.5	813.0	817.5	783.1	648.4
42.5°	780.7	781.4	773.8	769.0	770.0	773.1	781.4	758.7	657.3	626.4	592.7
45°	741.9	738.4	734.3	732.9	741.9	735.7	645.0	595.1	583.1	581.7	487.2
47.5°	701.3	700.3	698.6	699.6	648.7	578.3	557.7	551.2	553.2	551.8	418.5
50°	660.4	661.8	661.8	578.0	530.5	518.9	520.6	526.4	490.0	457.4	390.0
52.5°	625.0	614.4	526.4	496.2	485.5	490.7	478.3	432.6	399.6	380.4	360.8
55°	559.4	481.1	461.5	456.7	460.4	414.7	386.6	357.0	348.4	346.4	335.0
57.5°	440.2	424.4	426.1	406.8	363.2	337.4	326.1	322.0	318.2	315.4	27.5
60°	389.3	393.8	360.5	319.2	301.7	298.3	295.5	291.7	291.0	286.2	17.5
62.5°	356.3	313.4	284.5	274.2	270.1	269.1	263.9	262.2	222.7	30.6	13.1
65°	268.7	251.2	245.7	243.3	238.8	238.8	198.3	31.3	25.4	22.0	11.7
67.5°	219.2	217.9	215.1	212.0	144.3	30.2	26.5	23.0	19.9	17.5	10.3
70°	185.6	184.9	168.4	30.9	25.8	22.7	19.9	17.9	16.5	14.8	9.3
72.5°	152.2	30.9	26.1	22.7	19.6	17.9	16.1	14.4	13.1	12.0	7.6
75°	23.7	21.0	18.6	16.8	15.5	13.7	12.4	11.3	11.0	9.6	5.2
77.5°	17.2	14.8	13.4	12.0	10.7	9.6	8.2	7.2	6.5	5.5	3.8
80°	12.0	10.7	9.6	7.9	6.9	5.8	5.2	4.5	4.1	3.4	1.7
82.5°	6.9	5.8	5.2	4.1	3.8	3.1	2.7	2.4	2.4	1.7	1.7
85°	3.1	3.1	2.4	2.1	1.7	1.7	1.7	1.4	1.4	1.0	1.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.0	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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1180.7	1185.1	1193.7	1202.7	1192.7	1228.4	1225.7	1237.7	1244.2	1247.3	1254.5
5°	1285.8	1305.7	1312.3	1292.7	1281.3	1269.7	1243.2	1223.3	1225.7	1219.2	1195.4
7.5°	1283.8	1241.1	1183.8	1157.6	1155.6	1152.5	1160.7	1165.5	1166.2	1165.9	1165.2
10°	1175.2	1153.2	1149.4	1146.0	1147.3	1134.6	1128.8	1112.3	1121.2	1116.4	1118.1
12.5°	1142.2	1137.0	1116.8	1088.6	1105.4	1092.7	1085.5	1090.3	1084.8	1079.6	1077.9
15°	1122.6	1089.3	1077.9	1071.1	1066.2	1063.5	1065.9	1060.4	1058.7	1057.7	1060.1
17.5°	1082.0	1068.6	1056.3	1038.1	1038.4	1037.4	1044.3	1054.6	1055.2	1002.3	954.6
20°	1050.1	1039.1	1023.3	1012.0	1027.4	999.9	893.7	843.2	835.3	835.3	836.7
22.5°	1024.7	1000.3	1001.3	983.4	838.8	809.2	809.9	813.0	798.9	750.8	745.6
25°	990.0	986.2	910.9	787.2	788.3	765.2	729.8	680.0	626.1	626.1	617.1
27.5°	963.8	883.8	773.8	768.7	691.4	642.6	612.3	566.6	560.4	554.6	555.3
30°	941.5	747.7	750.5	642.6	585.5	545.0	542.6	535.0	531.2	530.2	526.4
32.5°	744.3	728.1	628.1	547.0	524.7	518.2	515.1	506.5	506.1	499.6	454.3
35°	697.9	639.1	525.7	503.7	497.2	491.0	485.9	326.1	38.5	15.5	13.4
37.5°	645.0	534.0	486.2	476.3	470.1	347.4	34.7	12.0	8.6	6.2	5.5
40°	546.7	476.9	461.8	450.8	185.9	12.0	7.6	5.8	3.4	3.1	2.7
42.5°	461.1	449.5	433.3	131.9	13.7	5.8	3.8	2.7	2.4	2.4	2.1
45°	431.6	421.3	174.6	13.1	8.6	2.7	2.4	2.4	2.1	1.4	1.4
47.5°	404.1	355.6	15.8	8.2	5.5	2.4	2.1	1.4	1.4	1.4	1.0
50°	374.9	19.6	11.0	6.2	3.4	1.4	1.4	1.4	1.4	1.0	1.0
52.5°	70.1	13.7	8.9	5.5	1.7	1.4	1.4	1.4	1.0	1.0	1.0
55°	16.5	11.0	8.2	4.8	1.4	1.4	1.4	1.0	1.0	1.0	0.7
57.5°	12.4	8.2	6.5	4.5	1.4	1.0	1.0	1.0	1.0	1.0	0.7
60°	10.3	5.8	5.2	4.1	1.0	1.0	1.0	1.0	1.0	1.0	0.7
62.5°	7.2	4.8	3.8	3.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	5.8	3.8	3.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	5.2	3.1	2.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	4.1	1.0	1.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	3.4	1.0	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	3.4	1.7	0.7	0.7	1.0	1.0	1.4	1.4	1.0	1.0	1.0
77.5°	2.4	1.7	0.7	0.7	1.0	1.0	1.4	1.4	1.0	1.0	1.0
80°	1.4	1.7	0.7	1.0	1.0	2.1	2.4	1.4	1.0	1.0	1.0
82.5°	1.4	1.7	2.1	2.1	1.0	1.7	2.1	1.7	1.4	1.0	1.0
85°	1.4	1.0	1.4	1.7	1.0	1.7	1.7	1.4	1.4	1.0	1.0
87.5°	0.7	1.0	1.0	1.4	1.4	1.4	1.7	1.4	1.4	1.4	1.0
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1258.0	1259.4	1237.7	1230.1	1236.7	1235.3	1229.5	1207.8	1205.4	1191.0	1170.0
5°	1202.3	1211.6	1200.3	1219.8	1210.6	1219.8	1248.0	1261.1	1282.4	1295.4	1300.2
7.5°	1163.5	1165.5	1165.5	1167.3	1169.0	1169.3	1167.3	1165.9	1160.1	1152.8	1165.9
10°	1116.4	1118.8	1122.9	1122.3	1121.9	1129.1	1130.8	1145.6	1144.9	1147.7	1157.6
12.5°	1092.0	1073.5	1090.3	1085.8	1092.0	1082.4	1100.3	1097.2	1098.2	1106.4	1127.8
15°	1051.5	1057.3	1061.4	1061.4	1063.8	1061.8	1059.7	1073.8	1082.4	1082.7	1081.4
17.5°	973.5	929.1	974.5	962.8	1055.9	1058.3	1050.4	1043.9	1043.9	1049.1	1060.1
20°	835.7	836.7	837.1	841.5	847.0	846.7	847.0	982.4	1046.7	1031.9	1021.9
22.5°	732.6	719.9	743.6	741.9	771.4	804.1	835.3	832.2	834.3	929.8	1015.7
25°	587.2	603.7	590.3	596.2	629.5	668.3	692.4	755.3	823.6	818.8	841.2
27.5°	552.9	548.4	554.6	554.6	559.1	564.2	577.6	613.0	673.8	737.7	798.2
30°	520.2	524.0	524.7	530.9	534.3	537.8	539.8	553.2	567.0	611.3	685.9
32.5°	390.7	342.6	450.8	480.0	504.8	510.6	514.7	520.2	530.2	536.7	574.2
35°	11.3	11.3	12.0	13.7	17.5	118.2	450.1	496.2	502.7	511.0	517.8
37.5°	5.5	4.1	4.8	5.2	6.2	8.6	12.4	38.5	428.5	484.5	492.1
40°	2.4	2.4	2.4	2.4	2.7	3.4	5.2	8.6	13.1	344.6	464.9
42.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	3.1	6.2	14.8	244.0
45°	1.4	1.4	1.0	1.4	1.4	1.7	2.1	2.1	2.7	9.3	16.8
47.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7	2.1	6.2	8.9
50°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.8	6.2
52.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	5.5
55°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.4	4.8
57.5°	0.7	0.7	0.7	0.7	0.7	1.0	0.7	0.7	1.0	1.0	4.5
60°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	4.1
62.5°	1.0	1.0	0.7	1.0	0.7	0.7	1.0	1.0	1.0	1.0	2.7
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0
67.5°	1.0	1.0	1.0	1.0	0.7	1.0	0.7	1.0	1.0	0.7	0.7
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	0.7	0.7	0.7
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.7	2.1	1.7	1.7	0.7
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.7	1.7	1.7	2.4
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.7
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.0	1.4
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.0	1.0	1.0
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1171.7	1160.1	1156.3	1148.4	1147.7	1148.4	1146.6	1144.2	1145.6	1143.2	1141.2
5°	1303.0	1271.7	1251.5	1224.3	1186.9	1178.6	1176.5	1164.9	1160.7	1159.4	1153.9
7.5°	1196.8	1253.9	1288.2	1299.9	1255.9	1245.6	1233.6	1224.0	1214.7	1197.2	1186.5
10°	1149.7	1152.5	1185.5	1224.0	1286.5	1295.1	1301.6	1280.7	1274.8	1230.1	1220.5
12.5°	1138.7	1139.1	1142.9	1166.2	1215.4	1220.9	1243.9	1256.3	1271.4	1280.0	1273.1
15°	1088.6	1116.4	1137.0	1139.1	1143.6	1153.2	1160.1	1203.0	1221.2	1270.0	1267.3
17.5°	1065.2	1074.1	1104.0	1128.4	1124.3	1120.9	1126.4	1132.2	1149.7	1198.5	1197.8
20°	1026.4	1054.9	1071.1	1096.5	1119.5	1120.5	1114.3	1110.9	1104.0	1111.9	1119.2
22.5°	1009.9	1014.4	1044.6	1062.5	1088.6	1097.9	1099.2	1099.6	1095.8	1091.7	1089.6
25°	1008.2	994.1	1009.5	1031.9	1051.1	1061.1	1072.4	1076.2	1074.8	1074.8	1072.8
27.5°	825.0	989.6	981.4	996.1	1019.5	1026.4	1032.2	1043.9	1051.1	1056.3	1058.7
30°	785.9	815.4	959.4	961.4	985.1	984.5	991.0	1000.6	1009.9	1021.9	1025.0
32.5°	695.1	767.6	878.3	926.7	951.5	953.9	957.3	960.1	968.7	982.1	993.7
35°	557.0	699.3	752.5	910.2	914.7	919.5	921.6	928.1	930.9	936.4	946.7
37.5°	504.1	578.0	721.9	787.2	872.4	876.6	887.6	890.3	894.8	899.2	907.1
40°	473.5	493.8	601.0	703.0	838.4	841.2	845.0	851.8	852.2	857.3	864.5
42.5°	449.1	462.2	493.4	671.4	814.4	814.0	805.1	809.6	811.6	817.1	827.1
45°	358.7	433.6	453.6	548.4	648.4	695.1	784.8	770.0	769.7	771.8	782.4
47.5°	18.2	407.9	422.0	452.5	612.3	614.0	625.7	724.0	739.1	734.3	735.3
50°	12.4	28.2	393.1	407.2	527.8	570.4	579.0	583.5	640.2	703.4	693.1
52.5°	9.6	16.1	240.9	378.0	428.8	460.1	515.4	547.0	550.5	575.9	662.1
55°	8.6	12.4	26.1	348.8	364.6	371.4	403.7	459.1	503.7	517.1	518.2
57.5°	7.6	11.3	17.9	157.7	331.6	333.0	338.5	357.7	397.9	434.7	476.3
60°	6.9	10.0	14.1	27.1	301.4	304.8	305.8	311.0	315.8	340.9	388.6
62.5°	4.1	7.9	12.4	19.6	238.5	273.9	273.5	277.0	281.4	284.2	293.8
65°	3.4	6.2	10.7	16.5	29.2	36.4	221.3	246.0	248.8	252.6	254.3
67.5°	3.1	5.5	7.9	13.1	22.0	25.1	28.9	35.7	195.2	219.9	223.4
70°	2.7	3.8	6.5	11.0	17.9	19.2	21.6	24.7	29.2	36.1	176.6
72.5°	1.7	2.7	4.5	7.9	13.7	15.5	16.8	18.9	21.0	25.1	28.9
75°	0.7	2.1	3.8	5.8	10.7	11.7	12.7	14.1	15.8	18.6	20.6
77.5°	0.7	1.7	3.1	4.1	6.9	7.9	9.3	10.3	11.7	13.1	15.1
80°	2.4	1.4	2.1	3.1	4.8	5.2	5.8	6.5	7.6	8.6	10.0
82.5°	1.7	2.1	2.4	2.1	2.4	3.1	3.4	4.1	4.5	5.2	5.5
85°	1.4	1.4	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.4	3.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1141.2	1140.5	1138.4	1138.4	1138.1	1139.4	1140.5	1141.5	1141.2	1143.2	1141.2
5°	1149.7	1148.0	1144.9	1142.2	1141.2	1141.8	1140.8	1141.8	1140.5	1142.2	1139.1
7.5°	1173.5	1167.6	1155.6	1150.8	1144.6	1144.2	1141.2	1140.5	1138.4	1138.4	1134.6
10°	1215.4	1187.2	1183.8	1169.3	1164.2	1139.1	1144.6	1135.3	1134.3	1129.8	1128.1
12.5°	1249.7	1227.7	1221.2	1208.5	1194.1	1143.2	1154.6	1134.6	1133.6	1124.7	1115.4
15°	1250.4	1263.1	1245.3	1210.2	1207.1	1172.1	1149.1	1142.2	1133.2	1106.4	1110.9
17.5°	1210.2	1239.4	1248.0	1240.5	1218.5	1194.8	1162.5	1148.7	1121.9	1109.9	1101.6
20°	1144.9	1174.5	1211.2	1213.7	1227.4	1210.6	1168.3	1146.0	1113.7	1092.7	1085.8
22.5°	1093.0	1114.7	1157.0	1176.5	1193.4	1199.2	1172.4	1139.4	1099.2	1079.0	1074.8
25°	1065.6	1070.4	1083.1	1106.1	1143.2	1170.0	1173.8	1138.7	1117.8	1073.5	1050.1
27.5°	1055.6	1051.5	1046.3	1058.0	1085.8	1118.5	1140.1	1146.0	1093.7	1051.5	1028.1
30°	1030.2	1032.6	1024.7	1020.5	1038.8	1072.4	1110.9	1120.5	1080.3	1036.7	1009.9
32.5°	998.9	1003.0	1004.4	997.2	993.4	1016.8	1058.3	1081.4	1079.3	1015.7	985.8
35°	959.7	971.4	974.5	974.8	968.7	964.9	988.9	1036.7	1054.9	1006.1	962.8
37.5°	918.5	921.9	938.8	943.2	943.2	931.9	949.8	987.9	1013.3	984.5	934.6
40°	866.9	877.9	893.7	901.7	909.6	910.6	900.6	927.4	969.3	962.1	908.2
42.5°	829.5	836.7	846.3	857.0	873.1	877.3	866.9	871.8	915.4	934.3	873.8
45°	785.9	795.5	798.2	809.9	826.7	838.8	838.4	828.5	863.5	886.9	848.7
47.5°	741.2	750.5	755.3	761.1	773.5	788.9	797.5	793.1	799.9	845.6	815.4
50°	695.1	700.3	709.9	716.4	724.7	733.6	754.2	758.4	748.7	785.2	778.6
52.5°	651.5	653.2	659.7	666.3	677.3	683.8	700.3	712.7	712.0	722.6	737.7
55°	617.5	609.9	611.3	616.4	623.7	633.6	642.9	662.1	668.7	670.7	694.8
57.5°	482.4	560.1	567.0	566.6	575.2	579.7	588.3	601.0	624.4	619.2	646.0
60°	438.5	447.0	512.0	519.5	522.6	526.8	537.1	548.8	565.9	576.9	588.6
62.5°	334.3	386.6	406.2	463.5	472.5	474.9	481.8	487.2	505.1	530.2	525.4
65°	258.7	281.1	340.9	364.2	413.0	419.2	428.8	434.7	439.8	468.7	470.1
67.5°	223.7	227.1	243.3	288.3	319.2	367.0	372.8	378.0	385.9	406.5	419.2
70°	191.1	195.2	199.6	203.4	243.6	275.2	319.6	321.3	326.4	340.2	369.0
72.5°	36.1	163.2	166.0	168.4	172.8	193.8	236.1	270.4	272.5	279.0	305.5
75°	24.4	28.5	39.2	134.7	139.2	140.5	147.8	190.7	222.3	223.7	235.4
77.5°	17.5	19.6	23.7	28.2	71.8	107.9	109.6	117.5	150.2	173.9	175.9
80°	12.0	13.4	15.8	17.9	22.0	28.9	79.7	82.1	86.2	118.9	125.1
82.5°	6.9	7.9	9.3	11.3	13.1	16.5	21.3	27.5	56.0	59.8	79.4
85°	3.4	3.8	4.5	5.5	6.5	7.9	10.7	13.1	17.9	32.3	33.3
87.5°	1.7	1.7	1.7	1.7	2.7	3.1	3.8	4.8	6.2	9.3	12.0
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1141.5	1146.3	1150.4	1151.5	1151.5	1152.1	1153.2	1153.9	1154.6	1155.2	1154.6
5°	1139.4	1144.6	1148.0	1149.1	1149.1	1151.1	1152.8	1154.9	1155.9	1155.9	1155.2
7.5°	1134.3	1138.1	1142.5	1145.3	1145.6	1149.1	1152.1	1151.8	1153.2	1153.9	1155.6
10°	1127.4	1127.4	1135.0	1137.0	1138.7	1142.5	1143.6	1145.6	1150.4	1151.1	1155.6
12.5°	1124.0	1120.5	1129.5	1130.5	1136.3	1131.5	1137.7	1139.8	1135.0	1141.5	1132.9
15°	1108.5	1112.6	1111.3	1114.3	1124.7	1119.2	1136.0	1130.5	1142.9	1128.1	1154.2
17.5°	1095.8	1095.1	1100.6	1103.4	1105.4	1117.1	1121.6	1127.8	1132.6	1128.4	1138.7
20°	1086.5	1081.0	1085.1	1088.2	1095.5	1104.4	1107.1	1097.9	1114.0	1141.5	1148.0
22.5°	1069.0	1065.2	1070.0	1070.0	1081.0	1079.6	1090.0	1084.1	1099.2	1131.2	1164.5
25°	1045.3	1045.6	1050.8	1057.0	1059.0	1074.5	1080.0	1087.5	1106.4	1144.6	1164.9
27.5°	1021.2	1019.2	1022.3	1035.0	1045.6	1057.0	1058.7	1084.5	1110.2	1136.3	1154.2
30°	997.2	995.1	997.2	1006.5	1019.2	1026.7	1045.6	1080.0	1104.0	1121.9	1138.7
32.5°	971.4	969.3	974.2	981.0	1003.4	1004.4	1041.8	1074.1	1093.0	1106.1	1103.0
35°	943.9	941.2	945.6	956.3	976.9	984.5	1023.6	1047.7	1069.0	1075.2	1060.7
37.5°	910.9	906.1	911.6	926.4	948.0	970.0	1002.7	1030.5	1041.8	1025.4	1008.2
40°	876.6	873.1	882.8	890.3	915.7	946.3	983.8	1003.4	996.1	977.2	958.3
42.5°	846.0	838.8	847.4	861.8	890.7	925.4	955.6	966.6	949.4	921.6	899.6
45°	808.5	799.9	810.2	829.5	860.4	899.9	923.6	919.9	890.7	866.6	836.4
47.5°	769.4	759.0	769.4	792.4	827.1	869.0	886.2	869.0	832.2	802.0	777.6
50°	730.9	718.8	728.8	763.5	797.5	829.8	829.5	796.2	774.2	741.2	719.9
52.5°	692.7	675.6	685.5	723.3	757.3	794.1	767.0	736.0	709.6	680.7	673.8
55°	645.7	627.1	640.5	695.5	721.6	743.2	699.9	672.8	646.7	632.3	623.7
57.5°	601.0	580.7	592.4	657.3	676.6	682.1	642.2	603.7	588.3	583.5	571.1
60°	554.9	531.9	542.9	617.8	631.2	608.9	569.7	539.8	536.7	527.1	517.5
62.5°	511.0	485.5	492.4	568.7	574.9	534.3	498.2	490.3	482.8	473.2	468.0
65°	460.4	434.0	443.6	516.5	510.6	458.4	438.1	436.4	426.4	418.5	426.1
67.5°	414.1	382.8	396.2	459.4	433.0	390.3	382.1	378.0	370.1	374.5	295.2
70°	363.2	329.2	347.4	397.9	358.7	330.6	327.5	321.3	321.6	255.7	215.4
72.5°	306.5	277.0	303.4	330.6	283.8	275.6	271.1	270.4	218.2	177.3	167.3
75°	256.7	226.8	255.3	265.6	226.1	220.6	220.3	182.1	143.3	136.8	133.7
77.5°	200.3	177.3	204.5	189.0	173.5	167.3	150.2	112.7	107.9	103.4	38.8
80°	135.0	136.8	152.6	130.2	123.7	105.5	83.2	79.7	68.7	27.5	21.6
82.5°	82.1	103.1	97.2	81.4	79.7	57.4	52.6	26.8	19.9	15.8	13.7
85°	42.6	52.2	50.2	44.3	33.0	29.6	16.5	12.7	10.3	7.9	6.5
87.5°	14.4	19.2	18.6	14.8	11.3	8.9	5.8	4.8	3.4	2.7	2.4
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1153.9	1153.9	1153.2	1153.9	1154.2	1153.5	1153.5	1154.2	1154.6	1154.9	1156.6
5°	1155.6	1156.3	1157.3	1159.4	1159.7	1163.8	1165.5	1166.6	1167.6	1168.0	1165.5
7.5°	1159.4	1161.8	1163.8	1163.5	1161.1	1154.6	1152.5	1150.8	1153.9	1161.8	1171.0
10°	1162.8	1151.8	1131.2	1159.4	1150.8	1158.7	1182.0	1187.2	1203.0	1225.3	1231.9
12.5°	1139.1	1169.3	1175.9	1144.2	1202.7	1181.0	1206.8	1229.5	1236.0	1258.7	1244.9
15°	1164.5	1179.3	1189.3	1220.9	1217.4	1236.0	1243.2	1238.7	1239.8	1245.6	1261.1
17.5°	1164.2	1193.7	1200.3	1221.6	1236.0	1236.3	1234.3	1232.2	1237.7	1242.2	1232.9
20°	1184.1	1193.7	1206.4	1215.0	1217.8	1221.2	1227.7	1222.6	1212.3	1202.3	1198.2
22.5°	1174.1	1195.8	1206.8	1208.2	1206.4	1195.8	1186.2	1171.7	1166.9	1161.8	1163.5
25°	1176.2	1186.2	1184.8	1179.3	1172.1	1152.1	1147.3	1141.2	1131.9	1109.5	1089.3
27.5°	1161.4	1156.3	1150.1	1136.7	1123.6	1113.0	1100.9	1081.0	1064.5	1040.5	1031.5
30°	1136.7	1116.1	1100.9	1093.0	1080.3	1062.5	1044.3	1019.9	998.9	994.1	989.6
32.5°	1089.3	1069.0	1056.6	1037.4	1015.7	994.4	973.5	963.8	959.4	960.1	955.9
35°	1040.8	1022.9	1004.4	975.5	959.4	938.1	930.5	928.5	924.3	919.9	915.1
37.5°	989.3	968.3	940.5	923.3	907.1	898.6	894.8	891.7	884.5	876.6	871.1
40°	939.4	901.7	886.2	869.4	864.5	860.8	855.3	847.7	837.7	836.4	834.0
42.5°	872.8	845.6	832.2	828.8	823.0	816.4	811.6	803.4	799.3	802.0	804.1
45°	809.6	795.8	791.3	787.2	776.2	767.0	763.9	761.1	764.5	779.7	743.6
47.5°	758.4	752.9	747.4	740.5	730.2	723.3	726.4	729.2	732.2	621.3	567.0
50°	714.0	706.5	697.9	690.3	684.1	683.5	699.6	651.2	545.3	542.6	487.6
52.5°	665.6	654.2	649.1	644.6	647.4	657.7	544.3	505.1	484.5	420.9	392.8
55°	613.4	603.4	603.4	607.5	592.7	480.4	474.5	410.3	371.4	360.5	356.0
57.5°	561.1	560.1	565.9	517.5	436.0	418.2	351.5	337.4	331.2	329.9	322.7
60°	513.4	523.0	437.8	402.7	350.1	315.8	306.2	304.4	297.9	295.5	289.0
62.5°	475.2	394.1	367.0	299.6	282.1	277.6	272.5	270.1	264.2	233.3	68.4
65°	343.3	324.4	263.2	251.9	250.5	244.0	241.9	217.5	51.2	34.4	29.2
67.5°	259.1	229.9	222.0	219.9	213.4	200.3	59.4	34.0	29.2	25.4	22.3
70°	199.0	193.8	188.0	183.1	53.9	33.7	29.2	24.7	21.3	18.9	17.2
72.5°	162.9	159.4	92.8	35.4	28.9	24.4	21.6	18.9	16.5	15.1	13.7
75°	127.5	35.4	29.2	24.4	21.0	17.9	15.8	14.1	12.7	11.7	10.7
77.5°	28.9	23.4	19.9	16.8	15.1	13.4	12.0	10.3	9.3	8.2	6.9
80°	17.9	15.5	13.1	12.0	10.3	8.6	7.6	6.9	5.5	5.2	4.5
82.5°	11.7	9.3	8.2	6.9	5.5	5.2	4.5	3.4	3.1	2.7	2.4
85°	5.2	4.5	3.8	3.1	2.4	2.1	1.7	1.4	1.4	1.4	1.4
87.5°	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1157.3	1163.5	1169.3	1167.6	1161.4	1151.8	1149.1	1145.3	1148.0	1153.9	1156.3
5°	1165.5	1162.1	1174.5	1192.7	1222.2	1225.0	1245.6	1250.4	1266.9	1277.2	1276.9
7.5°	1177.2	1226.0	1246.3	1268.3	1278.3	1275.8	1278.9	1276.5	1272.8	1271.0	1269.0
10°	1236.7	1273.8	1281.3	1281.3	1265.9	1244.9	1236.0	1220.5	1189.6	1190.3	1185.1
12.5°	1271.4	1284.4	1266.6	1251.5	1189.3	1165.2	1139.1	1126.7	1119.5	1108.5	1112.6
15°	1253.2	1234.6	1224.0	1175.2	1137.0	1093.7	1094.4	1086.9	1079.0	1079.6	1074.5
17.5°	1226.4	1211.6	1136.0	1102.3	1083.8	1066.9	1063.8	1053.9	1048.7	1047.0	1046.7
20°	1189.6	1136.3	1080.0	1071.7	1049.4	1030.2	1027.1	1030.2	1046.0	1017.8	922.3
22.5°	1146.6	1070.0	1053.5	1030.2	1015.0	1007.5	1026.4	940.5	810.6	826.4	809.6
25°	1073.8	1040.5	1012.3	994.4	992.7	946.3	788.6	772.1	688.6	643.9	593.8
27.5°	1020.5	1006.1	976.6	973.5	951.1	773.8	691.7	601.0	567.7	562.5	551.5
30°	988.2	967.6	949.8	871.8	759.0	623.0	554.9	542.2	536.4	530.2	520.6
32.5°	949.4	929.8	938.4	732.9	605.1	536.4	522.6	513.4	502.7	498.6	463.9
35°	909.9	901.0	733.3	616.1	520.2	503.7	493.4	483.8	384.9	93.1	31.6
37.5°	867.6	865.6	659.1	511.3	487.2	471.8	442.6	91.4	21.6	14.8	11.0
40°	834.6	659.4	520.9	479.3	459.8	435.4	61.2	15.1	9.6	5.8	3.8
42.5°	812.7	593.1	466.3	449.8	407.2	45.0	15.5	6.5	3.8	3.1	2.4
45°	626.4	468.3	435.7	418.5	51.5	15.5	8.9	3.1	2.4	2.1	1.4
47.5°	578.0	425.4	406.2	91.4	17.2	8.2	6.2	2.1	1.4	1.4	1.4
50°	437.8	393.1	323.3	22.3	11.0	5.8	4.5	1.4	1.4	1.4	1.0
52.5°	383.8	362.9	34.7	14.8	8.6	4.5	2.7	1.0	1.0	1.0	1.0
55°	350.8	230.2	20.6	11.3	7.2	4.1	1.7	1.0	1.0	1.0	0.7
57.5°	320.9	30.9	15.1	9.6	6.5	3.8	1.0	1.0	1.0	1.0	0.7
60°	272.1	22.3	12.4	8.6	6.2	3.4	1.0	1.0	1.0	1.0	1.0
62.5°	35.4	17.5	10.7	7.6	4.5	2.7	0.7	1.0	1.0	1.0	1.0
65°	25.8	13.7	9.6	5.2	2.7	1.0	0.7	1.0	1.0	1.0	1.0
67.5°	19.9	11.3	7.2	4.5	2.4	0.7	0.7	1.0	1.0	1.0	1.0
70°	15.8	9.6	5.8	3.8	2.1	0.7	0.7	1.0	1.0	1.0	1.0
72.5°	12.4	6.9	4.1	2.1	1.4	0.7	0.7	1.0	1.0	1.0	1.0
75°	9.3	5.5	3.1	1.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
77.5°	6.2	3.4	2.4	1.4	1.4	1.4	1.7	1.7	1.0	1.0	1.0
80°	4.1	2.4	1.7	1.7	1.7	1.4	1.7	1.7	1.0	1.7	1.0
82.5°	2.1	1.7	1.7	1.4	1.4	1.0	1.4	1.4	1.4	1.4	1.0
85°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.0
87.5°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.4	1.4	1.0
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1153.2	1154.2	1151.5	1166.2	1158.7	1159.4	1162.5	1154.6	1156.3	1150.8	1147.0
5°	1278.3	1280.3	1282.4	1283.1	1284.4	1286.2	1284.1	1283.1	1281.0	1274.1	1266.9
7.5°	1258.7	1256.3	1255.2	1256.6	1259.0	1260.0	1258.3	1260.7	1269.7	1273.4	1275.8
10°	1155.6	1144.6	1152.1	1151.1	1142.5	1171.4	1163.5	1168.0	1171.0	1202.7	1221.9
12.5°	1106.4	1113.3	1100.3	1093.7	1102.3	1108.2	1114.0	1101.6	1118.8	1110.9	1136.3
15°	1065.2	1061.1	1059.7	1060.1	1058.3	1066.6	1068.6	1071.4	1073.8	1084.5	1088.6
17.5°	1046.7	1053.5	1056.3	1058.3	1054.9	1051.1	1047.3	1041.8	1043.6	1040.8	1048.7
20°	858.0	835.0	833.6	847.0	832.2	840.5	860.4	993.7	989.3	1041.2	1023.6
22.5°	716.1	694.4	675.9	659.7	682.8	692.4	729.5	771.4	839.5	828.8	902.7
25°	584.8	576.9	572.1	569.7	571.4	570.7	579.0	598.6	629.5	702.4	796.5
27.5°	547.0	543.3	541.5	536.0	540.2	538.8	545.3	549.4	558.7	565.9	596.5
30°	517.1	512.7	509.6	503.7	507.9	508.2	510.3	520.9	524.7	530.9	540.5
32.5°	189.0	111.3	104.5	99.3	108.6	141.6	248.4	434.3	495.5	500.3	511.3
35°	18.6	15.5	13.7	13.7	14.1	15.5	20.6	54.3	99.3	383.8	480.4
37.5°	7.2	6.2	5.2	4.8	5.2	5.8	7.9	10.3	14.1	29.2	130.2
40°	3.1	2.7	2.4	2.4	2.4	2.4	2.7	3.4	5.2	9.6	15.1
42.5°	2.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.4	3.1	6.2
45°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.7	2.7
47.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4
50°	1.0	1.0	1.0	1.0	0.7	1.0	0.7	1.0	1.0	1.0	1.0
52.5°	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0
55°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0
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	1.0	1.0	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	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°	1.0	1.0	0.7	1.0	0.7	0.7	1.0	1.0	1.0	0.7	0.7
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	1.4
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7	2.1	1.7
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.7	1.7
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1140.5	1140.1	1147.3	1152.8	1150.8	1152.8	1155.2	1155.6	1156.3	1153.5	1152.5
5°	1253.2	1242.5	1221.9	1207.1	1189.9	1158.7	1143.2	1144.9	1145.3	1144.2	1145.6
7.5°	1274.8	1273.8	1266.6	1263.5	1251.8	1229.5	1193.7	1187.5	1172.4	1162.8	1154.9
10°	1220.5	1245.3	1251.8	1262.8	1269.7	1265.5	1235.3	1230.8	1221.2	1210.2	1212.6
12.5°	1161.8	1182.0	1183.1	1242.9	1256.3	1257.6	1246.0	1252.1	1253.5	1228.8	1214.3
15°	1089.6	1099.2	1119.5	1175.2	1215.7	1241.1	1248.7	1252.1	1235.3	1234.3	1228.4
17.5°	1058.0	1064.2	1073.5	1104.7	1166.2	1203.7	1235.6	1233.2	1239.8	1235.0	1220.2
20°	1018.1	1023.3	1039.8	1055.6	1085.8	1135.7	1195.4	1199.9	1208.5	1207.5	1211.6
22.5°	1017.4	999.2	1002.0	1014.4	1046.0	1090.6	1154.2	1169.0	1174.5	1178.3	1182.7
25°	807.2	951.8	978.3	986.2	1006.8	1032.9	1107.8	1113.3	1123.6	1140.5	1152.8
27.5°	699.3	797.5	903.4	958.3	971.4	993.1	1037.7	1046.0	1081.0	1085.1	1104.4
30°	551.8	627.8	785.9	918.1	939.8	954.9	986.5	1003.0	1018.1	1034.6	1054.9
32.5°	519.2	531.2	618.9	759.7	928.1	916.8	940.1	950.1	966.6	981.0	995.8
35°	489.3	497.6	516.1	622.3	756.0	885.5	901.3	907.8	917.1	928.1	938.8
37.5°	458.0	470.4	483.1	511.6	699.3	860.8	860.4	868.0	873.5	882.8	891.7
40°	83.2	431.9	452.5	471.1	542.2	686.5	821.9	825.4	829.1	835.0	844.3
42.5°	13.4	72.2	424.0	441.9	462.2	614.7	804.4	790.3	787.9	792.0	800.3
45°	6.9	17.5	85.2	412.7	430.9	490.3	657.7	765.9	763.5	755.6	757.3
47.5°	5.2	11.0	21.0	142.6	403.4	420.9	606.8	600.3	646.0	733.6	720.2
50°	4.5	7.6	12.4	29.2	356.3	387.6	467.3	546.0	570.1	573.2	678.3
52.5°	4.1	5.2	8.9	18.9	74.9	358.4	380.0	407.5	448.1	535.0	532.9
55°	3.8	4.8	7.6	12.7	26.1	323.0	345.3	350.5	359.1	400.7	455.6
57.5°	2.1	4.5	7.2	11.0	19.6	59.1	313.4	317.5	324.4	326.1	345.7
60°	1.0	4.1	6.5	9.6	14.4	27.5	281.8	286.6	290.7	291.4	297.6
62.5°	0.7	3.8	5.5	8.9	12.0	19.6	66.7	136.1	258.7	258.7	266.0
65°	0.7	2.7	3.4	5.8	11.0	16.1	28.2	32.6	63.6	156.3	233.3
67.5°	0.7	1.0	3.1	4.8	8.2	12.4	20.6	24.1	28.9	33.0	61.2
70°	0.7	0.7	2.7	3.1	5.2	9.3	14.8	16.8	19.6	22.3	25.8
72.5°	0.7	0.7	2.4	2.4	3.4	6.2	11.3	12.4	14.1	15.8	18.2
75°	1.7	1.4	2.1	2.1	2.4	4.8	8.6	9.6	10.3	11.7	13.4
77.5°	1.7	1.7	1.7	1.7	1.7	3.1	5.5	6.2	7.2	7.9	9.3
80°	1.4	1.4	1.4	1.7	1.7	2.1	3.4	3.8	4.1	5.2	5.5
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.4	3.1
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4
87.5°	1.0	1.0	1.0	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1152.1	1150.1	1148.4	1149.4	1146.3	1144.9	1146.0	1146.3	1147.0	1148.7	1149.1
5°	1149.1	1148.4	1151.5	1153.2	1152.5	1153.2	1153.2	1151.8	1149.7	1151.1	1148.0
7.5°	1147.0	1142.5	1139.1	1139.8	1136.3	1140.5	1144.2	1149.7	1151.5	1151.5	1148.0
10°	1182.4	1177.6	1158.3	1145.3	1136.7	1129.1	1147.0	1128.8	1137.4	1104.7	1142.2
12.5°	1211.6	1218.1	1209.5	1173.8	1167.6	1144.9	1158.0	1135.7	1129.1	1091.7	1103.7
15°	1223.3	1210.9	1208.2	1198.2	1184.8	1178.3	1143.2	1139.4	1128.8	1132.9	1117.1
17.5°	1213.0	1219.2	1210.9	1204.4	1190.6	1175.2	1154.2	1135.7	1120.9	1087.9	1115.7
20°	1203.0	1211.2	1186.5	1190.6	1192.0	1174.1	1163.1	1147.7	1129.1	1098.2	1074.1
22.5°	1186.5	1180.7	1182.7	1176.5	1171.4	1173.8	1158.7	1148.0	1116.8	1102.7	1070.0
25°	1159.7	1157.6	1163.1	1162.5	1150.1	1146.0	1138.4	1127.1	1114.7	1092.0	1065.2
27.5°	1116.1	1126.7	1136.3	1140.8	1134.3	1123.3	1119.2	1112.6	1104.0	1081.0	1061.1
30°	1070.0	1082.0	1093.0	1102.7	1108.5	1103.7	1099.9	1096.1	1083.1	1068.0	1045.6
32.5°	1017.4	1033.3	1048.4	1060.1	1072.8	1076.6	1073.8	1070.7	1059.7	1046.0	1028.1
35°	956.6	978.3	1000.3	1021.2	1026.7	1035.7	1044.6	1039.4	1033.6	1019.9	1003.4
37.5°	905.1	920.5	936.4	962.8	982.1	993.4	1009.2	1011.3	1001.3	994.8	973.1
40°	851.8	865.9	888.9	904.4	930.9	943.9	960.8	968.3	965.9	962.1	943.2
42.5°	809.9	816.8	831.9	845.6	871.8	898.6	913.3	921.6	930.2	927.1	917.5
45°	765.2	771.4	776.6	788.6	814.0	837.7	855.9	868.3	883.8	891.0	879.3
47.5°	720.9	722.6	728.8	738.8	753.9	772.1	802.7	821.2	835.7	849.8	842.2
50°	686.9	680.7	681.7	687.9	700.3	718.2	740.2	766.3	782.8	799.9	801.7
52.5°	600.3	650.5	638.4	641.9	648.4	657.0	680.0	705.8	726.1	740.8	755.6
55°	503.7	513.7	610.3	596.5	600.6	608.2	618.9	644.6	664.2	684.8	705.4
57.5°	390.7	464.9	468.7	558.0	556.0	556.7	565.6	580.4	600.0	625.7	643.3
60°	303.8	335.0	395.8	426.8	505.1	507.9	513.0	521.6	538.4	562.8	590.7
62.5°	268.0	272.1	293.8	340.2	391.0	452.5	463.5	464.9	472.5	496.9	529.2
65°	235.4	238.1	244.7	249.5	292.1	351.5	404.4	413.0	417.8	432.3	459.8
67.5°	162.2	205.1	211.0	214.4	218.5	246.0	311.7	355.3	360.8	373.5	397.6
70°	31.3	64.9	177.6	181.4	183.5	189.7	200.3	269.7	306.2	318.2	329.2
72.5°	21.3	25.1	30.2	71.5	151.2	154.6	157.0	166.0	227.5	262.5	268.4
75°	15.5	17.2	20.3	25.1	30.9	100.7	124.7	129.2	133.7	184.5	214.1
77.5°	11.0	12.4	13.7	16.1	18.9	24.4	35.0	96.6	101.0	103.4	146.0
80°	6.2	7.6	9.3	10.7	12.0	13.7	17.9	22.3	49.8	72.8	76.6
82.5°	3.4	4.1	4.8	5.8	6.5	8.2	10.0	12.0	15.8	23.4	49.5
85°	1.7	1.7	1.7	2.4	2.7	3.8	4.5	5.2	7.2	10.0	13.7
87.5°	1.0	1.0	1.4	1.4	1.4	1.7	1.7	1.7	2.1	3.1	4.5
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: P1213321

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1149.4	1148.4	1148.4	1152.5	1151.5
5°	1147.3	1146.3	1146.0	1150.4	1148.4
7.5°	1145.6	1141.8	1140.8	1144.9	1143.2
10°	1138.7	1136.0	1137.7	1136.3	1135.7
12.5°	1127.1	1125.3	1118.1	1118.8	1124.7
15°	1106.1	1113.0	1100.6	1111.6	1114.0
17.5°	1067.6	1083.1	1095.1	1101.6	1102.7
20°	1084.8	1090.0	1083.8	1084.1	1088.2
22.5°	1062.5	1064.9	1066.6	1064.5	1073.5
25°	1026.7	1017.4	1037.4	1041.5	1055.9
27.5°	1015.7	1008.2	1017.4	1016.8	1028.8
30°	1006.8	982.4	986.5	993.1	1007.8
32.5°	994.1	955.6	951.5	965.9	982.4
35°	971.7	935.3	925.7	935.0	959.7
37.5°	952.8	907.1	887.9	900.3	932.6
40°	924.7	885.2	855.3	866.3	904.4
42.5°	891.0	866.3	820.2	827.8	871.4
45°	857.0	835.0	786.2	790.0	841.9
47.5°	822.3	802.0	750.8	751.5	804.1
50°	788.3	761.5	719.2	707.2	763.9
52.5°	743.9	719.2	687.2	667.6	725.7
55°	702.0	674.2	650.8	620.6	682.4
57.5°	661.1	630.2	614.4	575.6	633.3
60°	605.1	590.3	567.0	529.9	589.0
62.5°	547.7	542.9	519.2	480.7	534.3
65°	480.7	492.1	467.7	434.7	477.6
67.5°	417.5	437.8	411.0	390.7	423.0
70°	350.1	373.5	358.4	351.2	364.9
72.5°	283.8	306.5	307.9	302.7	307.2
75°	219.2	244.3	258.1	250.2	251.2
77.5°	166.3	178.3	193.5	199.6	198.3
80°	102.7	123.7	136.1	148.8	144.3
82.5°	51.9	69.4	84.5	98.3	91.7
85°	21.6	27.8	38.8	51.2	49.1
87.5°	6.5	11.0	11.7	16.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)