

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: P1214023

Luminaire Tested: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214023
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-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

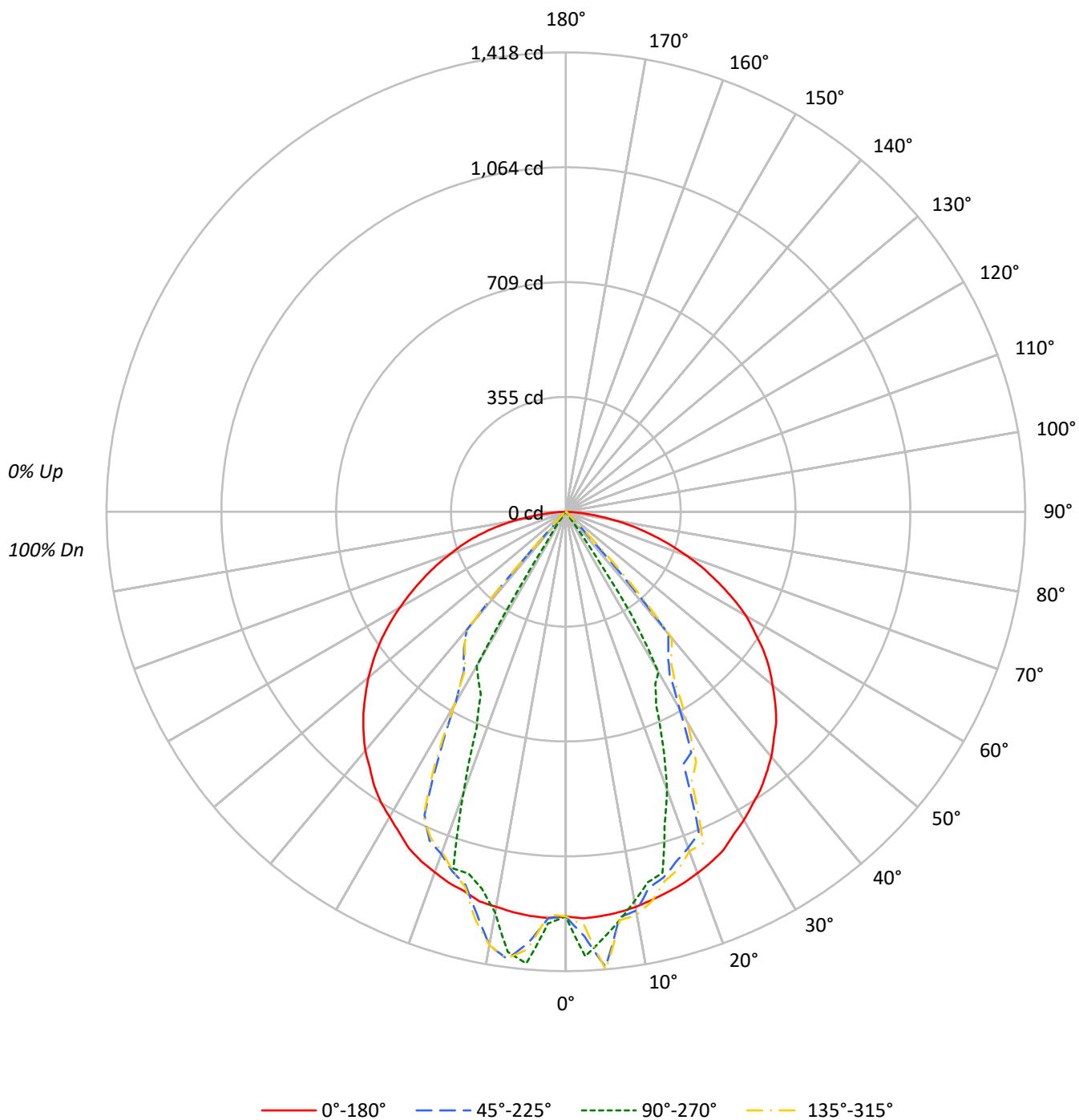
Lumens per Lamp: N/A
Luminaire Lumens: 1775.9 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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-L950-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°	20186	20186	20186	20186
5°	20215	20761	20208	21986
10°	20110	18787	20097	19330
15°	20000	17535	19950	17581
20°	19965	13812	19908	13982
25°	19960	9995	19863	9432
30°	19803	8769	19594	8428
35°	19791	194	19500	234
40°	19778	42	19305	42
45°	19757	25	19015	18
50°	19500	19	18606	19
55°	19259	13	18074	13
60°	18740	14	17275	14
65°	17570	23	16318	15
70°	16055	26	15285	26
75°	13874	29	14102	29
80°	10816	33	11434	33
85°	5798	39	5917	39

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 21340 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	7.1
10°-20°	341.8	19.2
20°-30°	434.9	24.5
30°-40°	367.4	20.7
40°-50°	240.2	13.5
50°-60°	151.3	8.5
60°-70°	80.5	4.5
70°-80°	29.4	1.7
80°-90°	5.0	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°	902.1	50.8
0°-40°	1269.5	71.5
0°-60°	1661.0	93.5
0°-90°	1775.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1775.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1249	1249	1249	1249	1249	
5°	1253	1322	1252	1400	1253	119
15°	1215	1153	1212	1156	1215	344
25°	1152	659	1146	622	1152	530
35°	1047	12	1032	15	1047	655
45°	918	2	884	1	918	706
55°	744	1	699	1	744	663
65°	521	1	484	1	521	516
75°	274	1	278	1	274	291
85°	54	1	55	1	54	68
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°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1256.1	1256.9	1257.3	1258.0	1259.1	1259.5	1260.3	1259.5	1259.5	1259.5	1259.5
5°	1252.8	1254.3	1255.4	1256.9	1259.5	1259.9	1262.9	1263.3	1264.8	1267.8	1270.0
7.5°	1247.1	1248.6	1250.9	1254.6	1258.4	1262.5	1267.8	1273.4	1281.3	1288.8	1298.1
10°	1238.9	1240.8	1243.4	1246.8	1265.1	1267.8	1279.4	1295.5	1300.0	1323.6	1341.2
12.5°	1226.9	1233.3	1240.0	1243.0	1260.6	1288.4	1327.4	1319.5	1310.9	1388.1	1387.0
15°	1215.3	1223.9	1220.5	1244.9	1261.0	1309.4	1292.9	1328.1	1392.6	1376.8	1377.6
17.5°	1202.9	1204.8	1223.5	1243.8	1272.6	1297.4	1317.6	1366.0	1378.7	1379.8	1366.0
20°	1187.2	1196.2	1223.5	1241.9	1290.6	1302.2	1346.1	1370.8	1365.6	1352.9	1329.2
22.5°	1171.0	1198.4	1226.1	1252.0	1286.1	1317.2	1339.0	1350.6	1323.2	1273.0	1246.0
25°	1151.9	1168.0	1204.4	1242.3	1285.0	1303.0	1315.7	1297.0	1261.4	1216.4	1171.0
27.5°	1122.3	1148.2	1194.7	1237.4	1276.0	1297.7	1277.1	1232.1	1174.8	1145.2	1124.6
30°	1099.4	1133.2	1171.4	1212.7	1252.8	1265.5	1213.0	1161.7	1122.3	1092.7	1088.2
32.5°	1071.7	1119.7	1156.1	1195.4	1229.1	1212.3	1161.3	1095.0	1062.3	1051.1	1055.6
35°	1047.0	1083.3	1130.9	1169.5	1193.9	1156.1	1075.5	1034.2	1018.5	1024.9	1016.6
37.5°	1017.4	1065.3	1109.2	1142.6	1134.3	1077.3	1009.1	982.9	984.7	979.5	963.8
40°	986.6	1032.3	1078.1	1109.6	1080.7	993.7	948.4	942.8	943.9	927.0	904.5
42.5°	950.6	992.2	1038.0	1066.5	1004.2	936.4	905.6	906.4	896.7	873.0	861.0
45°	918.4	956.6	1004.2	1006.9	930.4	873.8	864.8	855.0	833.3	825.4	816.4
47.5°	877.2	919.5	958.9	944.6	858.0	822.8	816.1	794.7	783.8	777.8	770.3
50°	833.3	876.0	912.0	871.5	789.8	781.6	759.5	742.6	735.1	728.7	722.0
52.5°	791.7	826.9	863.7	793.9	737.3	729.5	704.4	694.6	687.1	680.0	678.5
55°	744.5	775.6	800.7	720.1	687.1	668.7	650.7	644.0	636.9	633.5	639.1
57.5°	690.9	726.1	722.3	647.4	632.8	606.1	599.4	594.9	589.6	591.9	545.0
60°	642.5	669.5	651.1	594.1	569.4	551.4	545.4	542.4	545.4	499.7	439.3
62.5°	582.9	613.3	576.2	531.9	505.7	497.1	491.8	495.9	452.1	401.8	387.2
65°	521.0	554.0	499.3	465.2	448.7	441.2	440.8	406.0	362.9	343.4	343.4
67.5°	461.4	495.6	425.1	396.6	390.2	391.0	369.2	316.4	304.4	291.3	253.4
70°	398.1	428.1	351.2	334.0	330.2	327.6	274.8	260.5	246.3	211.4	208.4
72.5°	335.1	349.7	282.3	278.1	277.4	230.5	220.0	195.7	179.2	175.1	173.2
75°	274.0	269.5	223.0	226.8	191.2	174.7	157.8	143.6	141.3	139.8	34.9
77.5°	216.3	193.8	175.8	152.9	136.8	116.2	112.8	110.6	72.7	26.2	21.4
80°	157.4	125.6	117.0	99.3	84.7	81.3	83.2	25.5	20.2	16.9	14.6
82.5°	100.1	80.2	65.6	57.4	55.9	24.4	18.0	14.6	12.7	10.9	9.0
85°	53.6	35.6	33.0	27.7	16.5	11.2	9.4	7.1	6.0	4.9	4.5
87.5°	16.9	14.2	11.6	9.4	5.6	3.7	3.0	2.6	2.2	1.9	1.9
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°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1258.8	1259.5	1259.1	1260.3	1260.3	1261.8	1262.9	1264.0	1266.3	1267.4	1276.0
5°	1274.9	1276.8	1282.4	1287.6	1294.0	1295.9	1306.7	1309.4	1322.1	1323.6	1365.6
7.5°	1310.9	1318.0	1331.5	1345.0	1358.5	1367.1	1382.1	1391.5	1401.6	1410.6	1443.9
10°	1354.4	1366.3	1379.5	1393.0	1400.8	1417.3	1426.3	1427.8	1425.2	1410.6	1356.6
12.5°	1397.1	1409.1	1403.5	1406.1	1415.5	1386.2	1390.3	1369.3	1384.0	1311.6	1258.0
15°	1391.1	1390.3	1376.5	1331.5	1339.0	1283.1	1260.6	1243.4	1257.3	1249.8	1241.5
17.5°	1373.1	1339.0	1315.0	1261.0	1238.1	1222.4	1222.8	1223.2	1216.4	1223.5	1202.5
20°	1297.0	1258.8	1223.2	1204.0	1197.3	1186.0	1191.7	1186.0	1186.4	1188.7	1156.4
22.5°	1195.8	1184.2	1163.5	1169.5	1167.3	1177.4	1169.9	1158.3	1162.0	1145.2	1120.8
25°	1154.9	1141.4	1140.7	1142.9	1139.6	1135.1	1128.3	1110.7	1109.6	1104.3	1093.1
27.5°	1113.7	1114.4	1116.7	1109.9	1097.9	1089.0	1078.8	1070.2	1073.6	1067.6	1052.2
30°	1085.2	1084.8	1071.3	1065.3	1043.2	1043.6	1041.0	1035.7	1032.3	1032.7	1023.0
32.5°	1044.7	1033.1	1017.7	1010.2	1008.4	1001.6	996.4	997.5	1000.1	990.7	1000.9
35°	1003.1	979.1	976.9	970.5	964.5	960.0	961.9	954.4	954.0	952.9	870.4
37.5°	947.3	935.6	934.5	927.8	923.6	922.5	915.4	916.5	919.9	925.9	742.2
40°	901.2	890.7	888.0	887.7	878.7	877.9	879.8	886.9	891.8	854.3	707.4
42.5°	851.7	852.4	844.2	838.9	840.0	843.4	852.4	827.7	717.1	683.4	646.6
45°	809.3	805.6	801.1	799.6	809.3	802.6	703.6	649.2	636.1	634.6	531.5
47.5°	765.1	764.0	762.1	763.2	707.7	630.9	608.4	601.3	603.5	602.0	456.6
50°	720.5	722.0	722.0	630.5	578.8	566.0	567.9	574.3	534.5	498.9	425.5
52.5°	681.9	670.2	574.3	541.3	529.7	535.3	521.8	471.9	436.0	415.0	393.6
55°	610.3	524.8	503.4	498.2	502.3	452.4	421.7	389.5	380.1	377.9	365.5
57.5°	480.2	462.9	464.8	443.8	396.2	368.1	355.7	351.2	347.1	344.1	30.0
60°	424.7	429.6	393.2	348.2	329.1	325.4	322.4	318.3	317.5	312.3	19.1
62.5°	388.7	341.9	310.4	299.1	294.6	293.5	287.9	286.0	242.9	33.4	14.2
65°	293.1	274.0	268.0	265.4	260.5	260.5	216.3	34.1	27.7	24.0	12.7
67.5°	239.2	237.7	234.7	231.3	157.4	33.0	28.9	25.1	21.7	19.1	11.2
70°	202.4	201.7	183.7	33.7	28.1	24.7	21.7	19.5	18.0	16.1	10.1
72.5°	166.1	33.7	28.5	24.7	21.4	19.5	17.6	15.7	14.2	13.1	8.2
75°	25.9	22.9	20.2	18.4	16.9	15.0	13.5	12.4	12.0	10.5	5.6
77.5°	18.7	16.1	14.6	13.1	11.6	10.5	9.0	7.9	7.1	6.0	4.1
80°	13.1	11.6	10.5	8.6	7.5	6.4	5.6	4.9	4.5	3.7	1.9
82.5°	7.5	6.4	5.6	4.5	4.1	3.4	3.0	2.6	2.6	1.9	1.9
85°	3.4	3.4	2.6	2.2	1.9	1.9	1.9	1.5	1.5	1.1	1.1
87.5°	1.5	1.5	1.5	1.5	1.5	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°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1288.0	1292.9	1302.2	1312.0	1301.1	1340.1	1337.1	1350.2	1357.3	1360.7	1368.6
5°	1402.7	1424.4	1431.6	1410.2	1397.8	1385.1	1356.2	1334.5	1337.1	1330.0	1304.1
7.5°	1400.5	1354.0	1291.4	1262.9	1260.6	1257.3	1266.3	1271.5	1272.3	1271.9	1271.1
10°	1282.0	1258.0	1253.9	1250.1	1251.6	1237.8	1231.4	1213.4	1223.2	1217.9	1219.8
12.5°	1246.0	1240.4	1218.3	1187.5	1205.9	1192.0	1184.2	1189.4	1183.4	1177.8	1175.9
15°	1224.7	1188.3	1175.9	1168.4	1163.2	1160.2	1162.8	1156.8	1154.9	1153.8	1156.4
17.5°	1180.4	1165.8	1152.3	1132.4	1132.8	1131.7	1139.2	1150.4	1151.2	1093.5	1041.3
20°	1145.6	1133.6	1116.3	1103.9	1120.8	1090.8	975.0	919.9	911.3	911.3	912.8
22.5°	1117.8	1091.2	1092.3	1072.8	915.0	882.8	883.5	886.9	871.5	819.1	813.4
25°	1080.0	1075.8	993.7	858.8	859.9	834.8	796.2	741.8	683.0	683.0	673.2
27.5°	1051.5	964.1	844.2	838.6	754.2	701.0	668.0	618.1	611.4	605.0	605.8
30°	1027.1	815.7	818.7	701.0	638.8	594.5	591.9	583.6	579.5	578.4	574.3
32.5°	811.9	794.3	685.2	596.8	572.4	565.3	561.9	552.5	552.2	545.0	495.6
35°	761.3	697.2	573.5	549.5	542.4	535.7	530.0	355.7	42.0	16.9	14.6
37.5°	703.6	582.5	530.4	519.5	512.8	379.0	37.9	13.1	9.4	6.7	6.0
40°	596.4	520.3	503.8	491.8	202.8	13.1	8.2	6.4	3.7	3.4	3.0
42.5°	503.1	490.3	472.7	143.9	15.0	6.4	4.1	3.0	2.6	2.6	2.2
45°	470.8	459.6	190.4	14.2	9.4	3.0	2.6	2.6	2.2	1.5	1.5
47.5°	440.8	388.0	17.2	9.0	6.0	2.6	2.2	1.5	1.5	1.5	1.1
50°	409.0	21.4	12.0	6.7	3.7	1.5	1.5	1.5	1.5	1.1	1.1
52.5°	76.5	15.0	9.7	6.0	1.9	1.5	1.5	1.5	1.1	1.1	1.1
55°	18.0	12.0	9.0	5.2	1.5	1.5	1.5	1.1	1.1	1.1	0.7
57.5°	13.5	9.0	7.1	4.9	1.5	1.1	1.1	1.1	1.1	1.1	0.7
60°	11.2	6.4	5.6	4.5	1.1	1.1	1.1	1.1	1.1	1.1	0.7
62.5°	7.9	5.2	4.1	3.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	6.4	4.1	3.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	5.6	3.4	2.2	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	4.5	1.1	1.1	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	3.7	1.1	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	3.7	1.9	0.7	0.7	1.1	1.1	1.5	1.5	1.1	1.1	1.1
77.5°	2.6	1.9	0.7	0.7	1.1	1.1	1.5	1.5	1.1	1.1	1.1
80°	1.5	1.9	0.7	1.1	1.1	2.2	2.6	1.5	1.1	1.1	1.1
82.5°	1.5	1.9	2.2	2.2	1.1	1.9	2.2	1.9	1.5	1.1	1.1
85°	1.5	1.1	1.5	1.9	1.1	1.9	1.9	1.5	1.5	1.1	1.1
87.5°	0.7	1.1	1.1	1.5	1.5	1.5	1.9	1.5	1.5	1.5	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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1372.3	1373.8	1350.2	1342.0	1349.1	1347.6	1341.2	1317.6	1315.0	1299.2	1276.4
5°	1311.6	1321.7	1309.4	1330.7	1320.6	1330.7	1361.5	1375.7	1399.0	1413.2	1418.5
7.5°	1269.3	1271.5	1271.5	1273.4	1275.3	1275.6	1273.4	1271.9	1265.5	1257.6	1271.9
10°	1217.9	1220.5	1225.0	1224.3	1223.9	1231.8	1233.6	1249.8	1249.0	1252.0	1262.9
12.5°	1191.3	1171.0	1189.4	1184.5	1191.3	1180.8	1200.3	1196.9	1198.0	1207.0	1230.3
15°	1147.1	1153.4	1157.9	1157.9	1160.6	1158.3	1156.1	1171.4	1180.8	1181.2	1179.7
17.5°	1062.0	1013.6	1063.1	1050.3	1151.9	1154.6	1145.9	1138.8	1138.8	1144.4	1156.4
20°	911.6	912.8	913.1	918.0	924.0	923.6	924.0	1071.7	1141.8	1125.7	1114.8
22.5°	799.2	785.3	811.2	809.3	841.5	877.2	911.3	907.9	910.1	1014.4	1108.1
25°	640.6	658.6	644.0	650.4	686.7	729.1	755.3	823.9	898.5	893.3	917.6
27.5°	603.1	598.3	605.0	605.0	609.9	615.5	630.1	668.7	735.1	804.8	870.8
30°	567.5	571.7	572.4	579.2	582.9	586.6	588.9	603.5	618.5	666.9	748.2
32.5°	426.2	373.7	491.8	523.7	550.7	557.0	561.5	567.5	578.4	585.5	626.4
35°	12.4	12.4	13.1	15.0	19.1	129.0	491.1	541.3	548.4	557.4	564.9
37.5°	6.0	4.5	5.2	5.6	6.7	9.4	13.5	42.0	467.4	528.5	536.8
40°	2.6	2.6	2.6	2.6	3.0	3.7	5.6	9.4	14.2	376.0	507.2
42.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.4	6.7	16.1	266.1
45°	1.5	1.5	1.1	1.5	1.5	1.9	2.2	2.2	3.0	10.1	18.4
47.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.9	2.2	6.7	9.7
50°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.2	6.7
52.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	6.0
55°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	5.2
57.5°	0.7	0.7	0.7	0.7	0.7	1.1	0.7	0.7	1.1	1.1	4.9
60°	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1	4.5
62.5°	1.1	1.1	0.7	1.1	0.7	0.7	1.1	1.1	1.1	1.1	3.0
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	1.5	1.5	0.7	0.7	0.7
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.9	2.2	1.9	1.9	0.7
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.9	1.9	1.9	1.9	2.6
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.5	1.9
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.1	1.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1278.3	1265.5	1261.4	1252.8	1252.0	1252.8	1250.9	1248.3	1249.8	1247.1	1244.9
5°	1421.4	1387.3	1365.2	1335.6	1294.7	1285.8	1283.5	1270.8	1266.3	1264.8	1258.8
7.5°	1305.6	1367.8	1405.3	1418.1	1370.1	1358.8	1345.7	1335.2	1325.1	1306.0	1294.4
10°	1254.3	1257.3	1293.2	1335.2	1403.5	1412.8	1419.9	1397.1	1390.7	1342.0	1331.5
12.5°	1242.3	1242.6	1246.8	1272.3	1325.9	1331.9	1357.0	1370.5	1387.0	1396.3	1388.8
15°	1187.5	1217.9	1240.4	1242.6	1247.5	1258.0	1265.5	1312.4	1332.2	1385.5	1382.5
17.5°	1162.0	1171.8	1204.4	1231.0	1226.5	1222.8	1228.8	1235.1	1254.3	1307.5	1306.7
20°	1119.7	1150.8	1168.4	1196.2	1221.3	1222.4	1215.7	1211.9	1204.4	1213.0	1220.9
22.5°	1101.7	1106.6	1139.6	1159.1	1187.5	1197.7	1199.2	1199.5	1195.4	1190.9	1188.7
25°	1099.8	1084.5	1101.3	1125.7	1146.7	1157.6	1169.9	1174.0	1172.5	1172.5	1170.3
27.5°	900.0	1079.6	1070.6	1086.7	1112.2	1119.7	1126.1	1138.8	1146.7	1152.3	1154.9
30°	857.3	889.5	1046.6	1048.8	1074.7	1074.0	1081.1	1091.6	1101.7	1114.8	1118.2
32.5°	758.3	837.4	958.1	1011.0	1038.0	1040.6	1044.3	1047.3	1056.7	1071.3	1084.1
35°	607.6	762.8	820.9	993.0	997.9	1003.1	1005.4	1012.5	1015.5	1021.5	1032.7
37.5°	549.9	630.5	787.6	858.8	951.8	956.3	968.2	971.2	976.1	981.0	989.6
40°	516.5	538.7	655.6	767.0	914.6	917.6	921.8	929.3	929.6	935.3	943.1
42.5°	489.9	504.2	538.3	732.5	888.4	888.0	878.3	883.2	885.4	891.4	902.3
45°	391.3	473.1	494.8	598.3	707.4	758.3	856.2	840.0	839.7	841.9	853.5
47.5°	19.9	445.0	460.3	493.7	668.0	669.9	682.6	789.8	806.3	801.1	802.2
50°	13.5	30.7	428.8	444.2	575.8	622.3	631.6	636.5	698.4	767.3	756.1
52.5°	10.5	17.6	262.8	412.3	467.8	501.9	562.3	596.8	600.5	628.3	722.3
55°	9.4	13.5	28.5	380.5	397.7	405.2	440.5	500.8	549.5	564.2	565.3
57.5°	8.2	12.4	19.5	172.1	361.7	363.2	369.2	390.2	434.1	474.2	519.5
60°	7.5	10.9	15.4	29.6	328.7	332.5	333.6	339.2	344.5	371.9	424.0
62.5°	4.5	8.6	13.5	21.4	260.1	298.8	298.4	302.1	307.0	310.0	320.5
65°	3.7	6.7	11.6	18.0	31.9	39.7	241.4	268.4	271.4	275.5	277.4
67.5°	3.4	6.0	8.6	14.2	24.0	27.4	31.5	39.0	212.9	239.9	243.7
70°	3.0	4.1	7.1	12.0	19.5	21.0	23.6	27.0	31.9	39.4	192.7
72.5°	1.9	3.0	4.9	8.6	15.0	16.9	18.4	20.6	22.9	27.4	31.5
75°	0.7	2.2	4.1	6.4	11.6	12.7	13.9	15.4	17.2	20.2	22.5
77.5°	0.7	1.9	3.4	4.5	7.5	8.6	10.1	11.2	12.7	14.2	16.5
80°	2.6	1.5	2.2	3.4	5.2	5.6	6.4	7.1	8.2	9.4	10.9
82.5°	1.9	2.2	2.6	2.2	2.6	3.4	3.7	4.5	4.9	5.6	6.0
85°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.6	3.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5
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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1244.9	1244.1	1241.9	1241.9	1241.5	1243.0	1244.1	1245.3	1244.9	1247.1	1244.9
5°	1254.3	1252.4	1249.0	1246.0	1244.9	1245.6	1244.5	1245.6	1244.1	1246.0	1242.6
7.5°	1280.1	1273.8	1260.6	1255.4	1248.6	1248.3	1244.9	1244.1	1241.9	1241.9	1237.8
10°	1325.9	1295.1	1291.4	1275.6	1270.0	1242.6	1248.6	1238.5	1237.4	1232.5	1230.6
12.5°	1363.3	1339.4	1332.2	1318.4	1302.6	1247.1	1259.5	1237.8	1236.6	1226.9	1216.8
15°	1364.1	1378.0	1358.5	1320.2	1316.9	1278.6	1253.5	1246.0	1236.3	1207.0	1211.9
17.5°	1320.2	1352.1	1361.5	1353.2	1329.2	1303.4	1268.1	1253.1	1223.9	1210.8	1201.8
20°	1249.0	1281.3	1321.4	1324.0	1339.0	1320.6	1274.5	1250.1	1214.9	1192.0	1184.5
22.5°	1192.4	1216.0	1262.1	1283.5	1301.9	1308.2	1279.0	1243.0	1199.2	1177.0	1172.5
25°	1162.4	1167.7	1181.5	1206.7	1247.1	1276.4	1280.5	1242.3	1219.4	1171.0	1145.6
27.5°	1151.6	1147.1	1141.4	1154.2	1184.5	1220.2	1243.8	1250.1	1193.2	1147.1	1121.6
30°	1123.8	1126.4	1117.8	1113.3	1133.2	1169.9	1211.9	1222.4	1178.5	1130.9	1101.7
32.5°	1089.7	1094.2	1095.7	1087.8	1083.7	1109.2	1154.6	1179.7	1177.4	1108.1	1075.5
35°	1047.0	1059.7	1063.1	1063.5	1056.7	1052.6	1078.8	1130.9	1150.8	1097.6	1050.3
37.5°	1002.0	1005.7	1024.1	1029.0	1029.0	1016.6	1036.1	1077.7	1105.4	1074.0	1019.6
40°	945.8	957.8	975.0	983.6	992.2	993.4	982.5	1011.7	1057.5	1049.6	990.7
42.5°	904.9	912.8	923.3	934.9	952.5	957.0	945.8	951.0	998.6	1019.2	953.3
45°	857.3	867.8	870.8	883.5	901.9	915.0	914.6	903.8	942.0	967.5	925.9
47.5°	808.6	818.7	823.9	830.3	843.8	860.7	870.0	865.2	872.7	922.5	889.5
50°	758.3	764.0	774.4	781.6	790.6	800.3	822.8	827.3	816.8	856.5	849.4
52.5°	710.7	712.6	719.7	726.8	738.8	746.0	764.0	777.4	776.7	788.3	804.8
55°	673.6	665.4	666.9	672.5	680.4	691.2	701.4	722.3	729.5	731.7	758.0
57.5°	526.3	611.0	618.5	618.1	627.5	632.4	641.8	655.6	681.1	675.5	704.7
60°	478.3	487.7	558.5	566.8	570.2	574.7	585.9	598.6	617.4	629.4	642.1
62.5°	364.7	421.7	443.1	505.7	515.4	518.0	525.5	531.5	551.0	578.4	573.2
65°	282.3	306.6	371.9	397.3	450.6	457.3	467.8	474.2	479.8	511.3	512.8
67.5°	244.0	247.8	265.4	314.5	348.2	400.3	406.7	412.3	421.0	443.5	457.3
70°	208.4	212.9	217.8	221.9	265.8	300.3	348.6	350.5	356.1	371.1	402.6
72.5°	39.4	178.1	181.1	183.7	188.6	211.4	257.5	295.0	297.3	304.4	333.2
75°	26.6	31.1	42.7	146.9	151.8	153.3	161.2	208.0	242.5	244.0	256.8
77.5°	19.1	21.4	25.9	30.7	78.3	117.7	119.6	128.2	163.8	189.7	191.9
80°	13.1	14.6	17.2	19.5	24.0	31.5	87.0	89.6	94.1	129.7	136.4
82.5°	7.5	8.6	10.1	12.4	14.2	18.0	23.2	30.0	61.1	65.2	86.6
85°	3.7	4.1	4.9	6.0	7.1	8.6	11.6	14.2	19.5	35.2	36.4
87.5°	1.9	1.9	1.9	1.9	3.0	3.4	4.1	5.2	6.7	10.1	13.1
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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1245.3	1250.5	1255.0	1256.1	1256.1	1256.9	1258.0	1258.8	1259.5	1260.3	1259.5
5°	1243.0	1248.6	1252.4	1253.5	1253.5	1255.8	1257.6	1259.9	1261.0	1261.0	1260.3
7.5°	1237.4	1241.5	1246.4	1249.4	1249.8	1253.5	1256.9	1256.5	1258.0	1258.8	1260.6
10°	1229.9	1229.9	1238.1	1240.4	1242.3	1246.4	1247.5	1249.8	1255.0	1255.8	1260.6
12.5°	1226.1	1222.4	1232.1	1233.3	1239.6	1234.4	1241.1	1243.4	1238.1	1245.3	1235.9
15°	1209.3	1213.8	1212.3	1215.7	1226.9	1220.9	1239.3	1233.3	1246.8	1230.6	1259.1
17.5°	1195.4	1194.7	1200.7	1203.7	1205.9	1218.7	1223.5	1230.3	1235.5	1231.0	1242.3
20°	1185.3	1179.3	1183.8	1187.2	1195.0	1204.8	1207.8	1197.7	1215.3	1245.3	1252.4
22.5°	1166.2	1162.0	1167.3	1167.3	1179.3	1177.8	1189.0	1182.7	1199.2	1234.0	1270.4
25°	1140.3	1140.7	1146.3	1153.1	1155.3	1172.2	1178.2	1186.4	1207.0	1248.6	1270.8
27.5°	1114.1	1111.8	1115.2	1129.1	1140.7	1153.1	1154.9	1183.0	1211.2	1239.6	1259.1
30°	1087.8	1085.6	1087.8	1097.9	1111.8	1120.1	1140.7	1178.2	1204.4	1223.9	1242.3
32.5°	1059.7	1057.5	1062.7	1070.2	1094.6	1095.7	1136.6	1171.8	1192.4	1206.7	1203.3
35°	1029.7	1026.7	1031.6	1043.2	1065.7	1074.0	1116.7	1142.9	1166.2	1172.9	1157.2
37.5°	993.7	988.5	994.5	1010.6	1034.2	1058.2	1093.8	1124.2	1136.6	1118.6	1099.8
40°	956.3	952.5	963.0	971.2	999.0	1032.3	1073.2	1094.6	1086.7	1066.1	1045.5
42.5°	922.9	915.0	924.4	940.1	971.6	1009.5	1042.5	1054.5	1035.7	1005.4	981.4
45°	882.0	872.7	883.9	904.9	938.6	981.7	1007.6	1003.5	971.6	945.4	912.4
47.5°	839.3	828.1	839.3	864.4	902.3	948.0	966.8	948.0	907.9	874.9	848.3
50°	797.3	784.2	795.1	832.9	870.0	905.3	904.9	868.5	844.5	808.6	785.3
52.5°	755.7	737.0	747.8	789.1	826.2	866.3	836.7	802.9	774.1	742.6	735.1
55°	704.4	684.1	698.7	758.7	787.2	810.8	763.6	734.0	705.5	689.7	680.4
57.5°	655.6	633.5	646.2	717.1	738.1	744.1	700.6	658.6	641.8	636.5	623.0
60°	605.4	580.3	592.3	674.0	688.6	664.2	621.5	588.9	585.5	575.0	564.5
62.5°	557.4	529.7	537.2	620.4	627.1	582.9	543.5	534.9	526.7	516.2	510.6
65°	502.3	473.4	483.9	563.4	557.0	500.1	477.9	476.1	465.2	456.6	464.8
67.5°	451.7	417.6	432.2	501.2	472.3	425.8	416.8	412.3	403.7	408.6	322.0
70°	396.2	359.1	379.0	434.1	391.3	360.6	357.2	350.5	350.9	278.9	235.0
72.5°	334.4	302.1	331.0	360.6	309.6	300.6	295.8	295.0	238.0	193.4	182.6
75°	280.0	247.4	278.5	289.8	246.7	240.7	240.3	198.7	156.3	149.2	145.8
77.5°	218.5	193.4	223.0	206.2	189.3	182.6	163.8	123.0	117.7	112.8	42.4
80°	147.3	149.2	166.4	142.1	134.9	115.1	90.7	87.0	75.0	30.0	23.6
82.5°	89.6	112.5	106.1	88.8	87.0	62.6	57.4	29.2	21.7	17.2	15.0
85°	46.5	57.0	54.7	48.4	36.0	32.2	18.0	13.9	11.2	8.6	7.1
87.5°	15.7	21.0	20.2	16.1	12.4	9.7	6.4	5.2	3.7	3.0	2.6
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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1258.8	1258.8	1258.0	1258.8	1259.1	1258.4	1258.4	1259.1	1259.5	1259.9	1261.8
5°	1260.6	1261.4	1262.5	1264.8	1265.1	1269.6	1271.5	1272.6	1273.8	1274.1	1271.5
7.5°	1264.8	1267.4	1269.6	1269.3	1266.6	1259.5	1257.3	1255.4	1258.8	1267.4	1277.5
10°	1268.5	1256.5	1234.0	1264.8	1255.4	1264.0	1289.5	1295.1	1312.4	1336.7	1343.9
12.5°	1242.6	1275.6	1282.8	1248.3	1312.0	1288.4	1316.5	1341.2	1348.4	1373.1	1358.1
15°	1270.4	1286.5	1297.4	1331.9	1328.1	1348.4	1356.2	1351.4	1352.5	1358.8	1375.7
17.5°	1270.0	1302.2	1309.4	1332.6	1348.4	1348.7	1346.5	1344.2	1350.2	1355.1	1345.0
20°	1291.7	1302.2	1316.1	1325.5	1328.5	1332.2	1339.4	1333.7	1322.5	1311.6	1307.1
22.5°	1280.9	1304.5	1316.5	1318.0	1316.1	1304.5	1294.0	1278.3	1273.0	1267.4	1269.3
25°	1283.1	1294.0	1292.5	1286.5	1278.6	1256.9	1251.6	1244.9	1234.8	1210.4	1188.3
27.5°	1267.0	1261.4	1254.6	1240.0	1225.8	1214.2	1201.0	1179.3	1161.3	1135.1	1125.3
30°	1240.0	1217.5	1201.0	1192.4	1178.5	1159.1	1139.2	1112.6	1089.7	1084.5	1079.6
32.5°	1188.3	1166.2	1152.7	1131.7	1108.1	1084.8	1062.0	1051.5	1046.6	1047.3	1042.8
35°	1135.4	1115.9	1095.7	1064.2	1046.6	1023.4	1015.1	1012.9	1008.4	1003.5	998.2
37.5°	1079.2	1056.3	1026.0	1007.2	989.6	980.2	976.1	972.7	964.9	956.3	950.3
40°	1024.9	983.6	966.8	948.4	943.1	939.0	933.0	924.8	913.9	912.4	909.8
42.5°	952.1	922.5	907.9	904.1	897.8	890.7	885.4	876.4	871.9	874.9	877.2
45°	883.2	868.2	863.3	858.8	846.8	836.7	833.3	830.3	834.1	850.5	811.2
47.5°	827.3	821.3	815.3	807.8	796.6	789.1	792.4	795.4	798.8	677.7	618.5
50°	778.9	770.7	761.3	753.1	746.3	745.6	763.2	710.3	594.9	591.9	531.9
52.5°	726.1	713.7	708.1	703.2	706.2	717.5	593.8	551.0	528.5	459.2	428.5
55°	669.1	658.2	658.2	662.7	646.6	524.0	517.7	447.6	405.2	393.2	388.3
57.5°	612.1	611.0	617.4	564.5	475.7	456.2	383.5	368.1	361.4	359.9	352.0
60°	560.0	570.5	477.6	439.3	382.0	344.5	334.0	332.1	325.0	322.4	315.3
62.5°	518.4	430.0	400.3	326.9	307.8	302.9	297.3	294.6	288.3	254.5	74.6
65°	374.5	353.9	287.1	274.8	273.3	266.1	263.9	237.3	55.9	37.5	31.9
67.5°	282.6	250.8	242.2	239.9	232.8	218.5	64.8	37.1	31.9	27.7	24.4
70°	217.0	211.4	205.0	199.8	58.9	36.7	31.9	27.0	23.2	20.6	18.7
72.5°	177.7	173.9	101.2	38.6	31.5	26.6	23.6	20.6	18.0	16.5	15.0
75°	139.1	38.6	31.9	26.6	22.9	19.5	17.2	15.4	13.9	12.7	11.6
77.5°	31.5	25.5	21.7	18.4	16.5	14.6	13.1	11.2	10.1	9.0	7.5
80°	19.5	16.9	14.2	13.1	11.2	9.4	8.2	7.5	6.0	5.6	4.9
82.5°	12.7	10.1	9.0	7.5	6.0	5.6	4.9	3.7	3.4	3.0	2.6
85°	5.6	4.9	4.1	3.4	2.6	2.2	1.9	1.5	1.5	1.5	1.5
87.5°	1.9	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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1262.5	1269.3	1275.6	1273.8	1267.0	1256.5	1253.5	1249.4	1252.4	1258.8	1261.4
5°	1271.5	1267.8	1281.3	1301.1	1333.4	1336.4	1358.8	1364.1	1382.1	1393.3	1393.0
7.5°	1284.3	1337.5	1359.6	1383.6	1394.5	1391.8	1395.2	1392.6	1388.5	1386.6	1384.3
10°	1349.1	1389.6	1397.8	1397.8	1381.0	1358.1	1348.4	1331.5	1297.7	1298.5	1292.9
12.5°	1387.0	1401.2	1381.7	1365.2	1297.4	1271.1	1242.6	1229.1	1221.3	1209.3	1213.8
15°	1367.1	1346.9	1335.2	1282.0	1240.4	1193.2	1193.9	1185.7	1177.0	1177.8	1172.2
17.5°	1337.9	1321.7	1239.3	1202.5	1182.3	1163.9	1160.6	1149.7	1144.1	1142.2	1141.8
20°	1297.7	1239.6	1178.2	1169.2	1144.8	1123.8	1120.4	1123.8	1141.1	1110.3	1006.1
22.5°	1250.9	1167.3	1149.3	1123.8	1107.3	1099.1	1119.7	1026.0	884.3	901.5	883.2
25°	1171.4	1135.1	1104.3	1084.8	1083.0	1032.3	860.3	842.3	751.2	702.5	647.7
27.5°	1113.3	1097.6	1065.3	1062.0	1037.6	844.2	754.6	655.6	619.3	613.6	601.6
30°	1078.1	1055.6	1036.1	951.0	828.1	679.6	605.4	591.5	585.1	578.4	567.9
32.5°	1035.7	1014.4	1023.7	799.6	660.1	585.1	570.2	560.0	548.4	543.9	506.1
35°	992.6	982.9	799.9	672.1	567.5	549.5	538.3	527.8	419.8	101.6	34.5
37.5°	946.5	944.3	719.0	557.8	531.5	514.7	482.8	99.7	23.6	16.1	12.0
40°	910.5	719.3	568.3	522.9	501.6	474.9	66.7	16.5	10.5	6.4	4.1
42.5°	886.5	647.0	508.7	490.7	444.2	49.1	16.9	7.1	4.1	3.4	2.6
45°	683.4	510.9	475.3	456.6	56.2	16.9	9.7	3.4	2.6	2.2	1.5
47.5°	630.5	464.1	443.1	99.7	18.7	9.0	6.7	2.2	1.5	1.5	1.5
50°	477.6	428.8	352.7	24.4	12.0	6.4	4.9	1.5	1.5	1.5	1.1
52.5°	418.7	395.8	37.9	16.1	9.4	4.9	3.0	1.1	1.1	1.1	1.1
55°	382.7	251.2	22.5	12.4	7.9	4.5	1.9	1.1	1.1	1.1	0.7
57.5°	350.1	33.7	16.5	10.5	7.1	4.1	1.1	1.1	1.1	1.1	0.7
60°	296.9	24.4	13.5	9.4	6.7	3.7	1.1	1.1	1.1	1.1	1.1
62.5°	38.6	19.1	11.6	8.2	4.9	3.0	0.7	1.1	1.1	1.1	1.1
65°	28.1	15.0	10.5	5.6	3.0	1.1	0.7	1.1	1.1	1.1	1.1
67.5°	21.7	12.4	7.9	4.9	2.6	0.7	0.7	1.1	1.1	1.1	1.1
70°	17.2	10.5	6.4	4.1	2.2	0.7	0.7	1.1	1.1	1.1	1.1
72.5°	13.5	7.5	4.5	2.2	1.5	0.7	0.7	1.1	1.1	1.1	1.1
75°	10.1	6.0	3.4	1.9	0.7	0.7	0.7	1.1	1.1	1.1	1.1
77.5°	6.7	3.7	2.6	1.5	1.5	1.5	1.9	1.9	1.1	1.1	1.1
80°	4.5	2.6	1.9	1.9	1.9	1.5	1.9	1.9	1.1	1.9	1.1
82.5°	2.2	1.9	1.9	1.5	1.5	1.1	1.5	1.5	1.5	1.5	1.1
85°	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.1
87.5°	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.5	1.5	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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1258.0	1259.1	1256.1	1272.3	1264.0	1264.8	1268.1	1259.5	1261.4	1255.4	1251.3
5°	1394.5	1396.7	1399.0	1399.7	1401.2	1403.1	1400.8	1399.7	1397.5	1390.0	1382.1
7.5°	1373.1	1370.5	1369.3	1370.8	1373.5	1374.6	1372.7	1375.3	1385.1	1389.2	1391.8
10°	1260.6	1248.6	1256.9	1255.8	1246.4	1277.9	1269.3	1274.1	1277.5	1312.0	1333.0
12.5°	1207.0	1214.5	1200.3	1193.2	1202.5	1208.9	1215.3	1201.8	1220.5	1211.9	1239.6
15°	1162.0	1157.6	1156.1	1156.4	1154.6	1163.5	1165.8	1168.8	1171.4	1183.0	1187.5
17.5°	1141.8	1149.3	1152.3	1154.6	1150.8	1146.7	1142.6	1136.6	1138.4	1135.4	1144.1
20°	936.0	910.9	909.4	924.0	907.9	916.9	938.6	1084.1	1079.2	1135.8	1116.7
22.5°	781.2	757.6	737.3	719.7	744.8	755.3	795.8	841.5	915.8	904.1	984.7
25°	638.0	629.4	624.1	621.5	623.4	622.6	631.6	653.0	686.7	766.2	868.9
27.5°	596.8	592.6	590.8	584.8	589.3	587.8	594.9	599.4	609.5	617.4	650.7
30°	564.2	559.3	555.9	549.5	554.0	554.4	556.7	568.3	572.4	579.2	589.6
32.5°	206.2	121.5	114.0	108.3	118.5	154.4	271.0	473.8	540.5	545.8	557.8
35°	20.2	16.9	15.0	15.0	15.4	16.9	22.5	59.2	108.3	418.7	524.0
37.5°	7.9	6.7	5.6	5.2	5.6	6.4	8.6	11.2	15.4	31.9	142.1
40°	3.4	3.0	2.6	2.6	2.6	2.6	3.0	3.7	5.6	10.5	16.5
42.5°	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.4	6.7
45°	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.9	3.0
47.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5
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	2.2	2.2	1.5
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.9	2.2	1.9
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.9	1.9	1.9
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5
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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1244.1	1243.8	1251.6	1257.6	1255.4	1257.6	1260.3	1260.6	1261.4	1258.4	1257.3
5°	1367.1	1355.5	1333.0	1316.9	1298.1	1264.0	1247.1	1249.0	1249.4	1248.3	1249.8
7.5°	1390.7	1389.6	1381.7	1378.3	1365.6	1341.2	1302.2	1295.5	1279.0	1268.5	1259.9
10°	1331.5	1358.5	1365.6	1377.6	1385.1	1380.6	1347.6	1342.7	1332.2	1320.2	1322.9
12.5°	1267.4	1289.5	1290.6	1355.8	1370.5	1372.0	1359.2	1366.0	1367.5	1340.5	1324.7
15°	1188.7	1199.2	1221.3	1282.0	1326.2	1354.0	1362.2	1366.0	1347.6	1346.5	1340.1
17.5°	1154.2	1160.9	1171.0	1205.2	1272.3	1313.1	1348.0	1345.4	1352.5	1347.2	1331.1
20°	1110.7	1116.3	1134.3	1151.6	1184.5	1238.9	1304.1	1309.0	1318.4	1317.2	1321.7
22.5°	1109.9	1090.1	1093.1	1106.6	1141.1	1189.8	1259.1	1275.3	1281.3	1285.4	1290.3
25°	880.5	1038.3	1067.2	1075.8	1098.3	1126.8	1208.5	1214.5	1225.8	1244.1	1257.6
27.5°	762.8	870.0	985.5	1045.5	1059.7	1083.3	1132.1	1141.1	1179.3	1183.8	1204.8
30°	602.0	684.9	857.3	1001.6	1025.2	1041.7	1076.2	1094.2	1110.7	1128.7	1150.8
32.5°	566.4	579.5	675.1	828.8	1012.5	1000.1	1025.6	1036.5	1054.5	1070.2	1086.3
35°	533.8	542.8	563.0	678.9	824.7	966.0	983.2	990.4	1000.5	1012.5	1024.1
37.5°	499.7	513.2	527.0	558.2	762.8	939.0	938.6	946.9	952.9	963.0	972.7
40°	90.7	471.2	493.7	513.9	591.5	749.0	896.7	900.4	904.5	910.9	921.0
42.5°	14.6	78.7	462.6	482.1	504.2	670.6	877.5	862.2	859.5	864.0	873.0
45°	7.5	19.1	93.0	450.2	470.1	534.9	717.5	835.6	832.9	824.3	826.2
47.5°	5.6	12.0	22.9	155.6	440.1	459.2	662.0	654.9	704.7	800.3	785.7
50°	4.9	8.2	13.5	31.9	388.7	422.8	509.8	595.6	621.9	625.3	740.0
52.5°	4.5	5.6	9.7	20.6	81.7	391.0	414.6	444.6	488.8	583.6	581.4
55°	4.1	5.2	8.2	13.9	28.5	352.4	376.7	382.4	391.7	437.1	497.1
57.5°	2.2	4.9	7.9	12.0	21.4	64.5	341.9	346.4	353.9	355.7	377.1
60°	1.1	4.5	7.1	10.5	15.7	30.0	307.4	312.6	317.1	317.9	324.6
62.5°	0.7	4.1	6.0	9.7	13.1	21.4	72.7	148.4	282.3	282.3	290.1
65°	0.7	3.0	3.7	6.4	12.0	17.6	30.7	35.6	69.3	170.6	254.5
67.5°	0.7	1.1	3.4	5.2	9.0	13.5	22.5	26.2	31.5	36.0	66.7
70°	0.7	0.7	3.0	3.4	5.6	10.1	16.1	18.4	21.4	24.4	28.1
72.5°	0.7	0.7	2.6	2.6	3.7	6.7	12.4	13.5	15.4	17.2	19.9
75°	1.9	1.5	2.2	2.2	2.6	5.2	9.4	10.5	11.2	12.7	14.6
77.5°	1.9	1.9	1.9	1.9	1.9	3.4	6.0	6.7	7.9	8.6	10.1
80°	1.5	1.5	1.5	1.9	1.9	2.2	3.7	4.1	4.5	5.6	6.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.6	3.4
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.5
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

TEST NUMBER: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1256.9	1254.6	1252.8	1253.9	1250.5	1249.0	1250.1	1250.5	1251.3	1253.1	1253.5
5°	1253.5	1252.8	1256.1	1258.0	1257.3	1258.0	1258.0	1256.5	1254.3	1255.8	1252.4
7.5°	1251.3	1246.4	1242.6	1243.4	1239.6	1244.1	1248.3	1254.3	1256.1	1256.1	1252.4
10°	1289.9	1284.6	1263.6	1249.4	1240.0	1231.8	1251.3	1231.4	1240.8	1205.2	1246.0
12.5°	1321.7	1328.9	1319.5	1280.5	1273.8	1249.0	1263.3	1238.9	1231.8	1190.9	1204.0
15°	1334.5	1321.0	1318.0	1307.1	1292.5	1285.4	1247.1	1243.0	1231.4	1235.9	1218.7
17.5°	1323.2	1330.0	1321.0	1313.9	1298.9	1282.0	1259.1	1238.9	1222.8	1186.8	1217.2
20°	1312.4	1321.4	1294.4	1298.9	1300.4	1280.9	1268.9	1252.0	1231.8	1198.0	1171.8
22.5°	1294.4	1288.0	1290.3	1283.5	1277.9	1280.5	1264.0	1252.4	1218.3	1202.9	1167.3
25°	1265.1	1262.9	1268.9	1268.1	1254.6	1250.1	1241.9	1229.5	1216.0	1191.3	1162.0
27.5°	1217.5	1229.1	1239.6	1244.5	1237.4	1225.4	1220.9	1213.8	1204.4	1179.3	1157.6
30°	1167.3	1180.4	1192.4	1202.9	1209.3	1204.0	1199.9	1195.8	1181.5	1165.0	1140.7
32.5°	1109.9	1127.2	1143.7	1156.4	1170.3	1174.4	1171.4	1168.0	1156.1	1141.1	1121.6
35°	1043.6	1067.2	1091.2	1114.1	1120.1	1129.8	1139.6	1133.9	1127.6	1112.6	1094.6
37.5°	987.4	1004.2	1021.5	1050.3	1071.3	1083.7	1100.9	1103.2	1092.3	1085.2	1061.6
40°	929.3	944.6	969.7	986.6	1015.5	1029.7	1048.1	1056.3	1053.7	1049.6	1029.0
42.5°	883.5	891.0	907.5	922.5	951.0	980.2	996.4	1005.4	1014.7	1011.4	1000.9
45°	834.8	841.5	847.2	860.3	888.0	913.9	933.8	947.3	964.1	972.0	959.3
47.5°	786.4	788.3	795.1	805.9	822.4	842.3	875.7	895.9	911.6	927.0	918.8
50°	749.3	742.6	743.7	750.5	764.0	783.4	807.4	835.9	853.9	872.7	874.5
52.5°	654.9	709.6	696.5	700.2	707.4	716.7	741.8	770.0	792.1	808.2	824.3
55°	549.5	560.4	665.7	650.7	655.2	663.5	675.1	703.2	724.6	747.1	769.6
57.5°	426.2	507.2	511.3	608.8	606.5	607.3	617.0	633.1	654.5	682.6	701.7
60°	331.4	365.5	431.8	465.6	551.0	554.0	559.7	569.0	587.4	614.0	644.4
62.5°	292.4	296.9	320.5	371.1	426.6	493.7	505.7	507.2	515.4	542.0	577.3
65°	256.8	259.8	266.9	272.1	318.6	383.5	441.2	450.6	455.8	471.6	501.6
67.5°	176.9	223.8	230.2	233.9	238.4	268.4	340.0	387.6	393.6	407.5	433.7
70°	34.1	70.8	193.8	197.9	200.2	206.9	218.5	294.3	334.0	347.1	359.1
72.5°	23.2	27.4	33.0	78.0	164.9	168.7	171.3	181.1	248.2	286.4	292.8
75°	16.9	18.7	22.1	27.4	33.7	109.8	136.1	140.9	145.8	201.3	233.5
77.5°	12.0	13.5	15.0	17.6	20.6	26.6	38.2	105.3	110.2	112.8	159.3
80°	6.7	8.2	10.1	11.6	13.1	15.0	19.5	24.4	54.4	79.5	83.6
82.5°	3.7	4.5	5.2	6.4	7.1	9.0	10.9	13.1	17.2	25.5	54.0
85°	1.9	1.9	1.9	2.6	3.0	4.1	4.9	5.6	7.9	10.9	15.0
87.5°	1.1	1.1	1.5	1.5	1.5	1.9	1.9	1.9	2.2	3.4	4.9
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: P1214023

CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1253.9	1252.8	1252.8	1257.3	1256.1
5°	1251.6	1250.5	1250.1	1255.0	1252.8
7.5°	1249.8	1245.6	1244.5	1249.0	1247.1
10°	1242.3	1239.3	1241.1	1239.6	1238.9
12.5°	1229.5	1227.6	1219.8	1220.5	1226.9
15°	1206.7	1214.2	1200.7	1212.7	1215.3
17.5°	1164.7	1181.5	1194.7	1201.8	1202.9
20°	1183.4	1189.0	1182.3	1182.7	1187.2
22.5°	1159.1	1161.7	1163.5	1161.3	1171.0
25°	1120.1	1109.9	1131.7	1136.2	1151.9
27.5°	1108.1	1099.8	1109.9	1109.2	1122.3
30°	1098.3	1071.7	1076.2	1083.3	1099.4
32.5°	1084.5	1042.5	1038.0	1053.7	1071.7
35°	1060.1	1020.4	1009.9	1020.0	1047.0
37.5°	1039.5	989.6	968.6	982.1	1017.4
40°	1008.7	965.6	933.0	945.0	986.6
42.5°	972.0	945.0	894.8	903.0	950.6
45°	934.9	910.9	857.7	861.8	918.4
47.5°	897.0	874.9	819.1	819.8	877.2
50°	859.9	830.7	784.6	771.5	833.3
52.5°	811.6	784.6	749.7	728.3	791.7
55°	765.8	735.5	710.0	677.0	744.5
57.5°	721.2	687.5	670.2	627.9	690.9
60°	660.1	644.0	618.5	578.0	642.5
62.5°	597.5	592.3	566.4	524.4	582.9
65°	524.4	536.8	510.2	474.2	521.0
67.5°	455.4	477.6	448.3	426.2	461.4
70°	382.0	407.5	391.0	383.1	398.1
72.5°	309.6	334.4	335.9	330.2	335.1
75°	239.2	266.5	281.5	272.9	274.0
77.5°	181.4	194.5	211.0	217.8	216.3
80°	112.1	134.9	148.4	162.3	157.4
82.5°	56.6	75.7	92.2	107.2	100.1
85°	23.6	30.4	42.4	55.9	53.6
87.5°	7.1	12.0	12.7	18.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)