

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: P1214082

Luminaire Tested: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

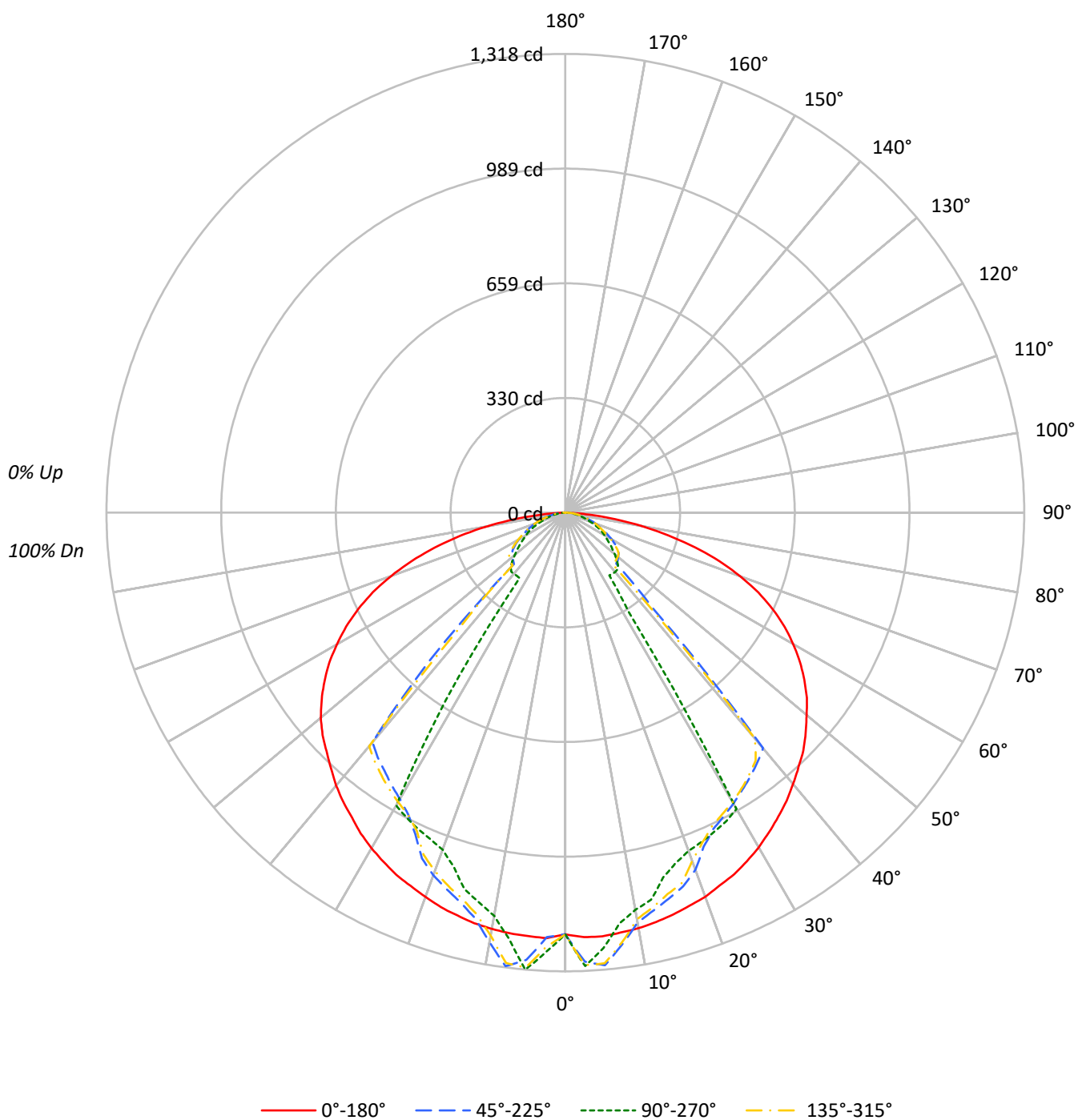
Lumens per Lamp: N/A
Luminaire Lumens: 2426.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9790	9790	9790	9790
5°	9886	9864	9882	10352
10°	9896	8918	9910	9055
15°	9918	8251	9941	8513
20°	9989	7826	9989	7797
25°	10076	7676	10091	7605
30°	10178	7541	10203	7451
35°	10297	1718	10318	1791
40°	10461	1786	10524	1844
45°	10712	1777	10750	1840
50°	10962	1606	11111	1649
55°	11299	1426	11390	1446
60°	11585	1267	11611	1283
65°	11790	1106	11761	1088
70°	11622	891	11587	858
75°	10790	685	10869	657
80°	8756	488	9108	446
85°	4741	293	5008	224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 11872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	4.9
10°-20°	327.7	13.5
20°-30°	485.4	20.0
30°-40°	489.1	20.2
40°-50°	382.1	15.7
50°-60°	295.1	12.2
60°-70°	198.1	8.2
70°-80°	101.1	4.2
80°-90°	28.1	1.2
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°	932.4	38.4
0°-40°	1421.5	58.6
0°-60°	2098.7	86.5
0°-90°	2426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2426.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1212	1212	1212	1212	1212	
5°	1222	1256	1222	1318	1222	116
15°	1195	1085	1198	1120	1195	338
25°	1146	1012	1148	1002	1146	529
35°	1067	220	1069	229	1067	668
45°	967	214	970	222	967	745
55°	838	156	844	158	838	748
65°	658	104	656	103	658	647
75°	386	53	389	50	386	404
85°	69	17	73	13	69	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1220.9	1225.4	1228.7	1230.9	1232.0	1232.0	1232.6	1233.1	1240.4	1243.7	1245.9
5°	1222.0	1226.5	1233.1	1242.0	1249.8	1256.5	1262.0	1269.8	1277.6	1285.9	1288.7
7.5°	1217.0	1222.6	1235.9	1252.0	1267.0	1277.6	1284.8	1289.8	1293.7	1294.2	1297.0
10°	1212.6	1222.6	1240.9	1262.0	1280.9	1293.7	1293.7	1290.9	1294.8	1279.8	1264.8
12.5°	1204.8	1215.9	1240.9	1268.7	1286.4	1291.4	1289.2	1278.1	1255.3	1237.0	1228.7
15°	1195.4	1210.4	1241.5	1272.6	1287.5	1289.2	1268.1	1239.8	1222.6	1211.5	1197.6
17.5°	1184.8	1204.8	1242.0	1273.1	1278.7	1270.9	1230.9	1213.1	1195.4	1169.3	1150.4
20°	1174.8	1194.3	1237.6	1265.3	1268.7	1233.7	1202.6	1183.7	1153.7	1131.0	1122.6
22.5°	1159.3	1182.1	1233.7	1254.8	1242.0	1201.5	1171.5	1141.5	1114.3	1107.7	1097.7
25°	1146.5	1170.4	1224.8	1242.0	1208.2	1172.1	1137.1	1102.1	1089.3	1079.9	1071.0
27.5°	1129.3	1158.7	1213.1	1218.7	1172.1	1140.4	1089.3	1073.8	1062.1	1051.6	1047.7
30°	1110.4	1146.5	1197.0	1186.5	1142.1	1095.4	1057.7	1043.3	1034.9	1023.8	1019.4
32.5°	1088.8	1128.2	1179.3	1149.3	1109.9	1051.6	1027.2	1016.0	1004.9	996.6	968.9
35°	1066.6	1112.1	1158.2	1113.8	1071.0	1018.3	996.6	986.6	976.1	945.5	916.7
37.5°	1043.8	1094.3	1132.6	1075.5	1019.4	983.8	965.5	954.4	930.5	891.7	877.2
40°	1017.7	1072.7	1099.9	1036.0	974.4	948.9	931.7	920.5	866.7	849.5	845.0
42.5°	991.6	1051.6	1059.9	997.7	937.2	911.7	897.2	860.6	823.9	815.1	816.7
45°	966.6	1028.8	1016.0	943.3	898.3	877.2	852.8	802.3	782.9	787.3	788.4
47.5°	936.6	1001.6	970.0	888.9	858.4	837.3	782.9	752.3	749.5	755.6	759.0
50°	904.4	971.1	921.1	839.5	815.1	790.1	728.4	712.9	716.2	722.3	726.2
52.5°	874.5	936.6	870.6	793.4	772.3	715.1	673.5	676.3	681.8	689.0	691.2
55°	837.8	895.0	816.7	746.8	726.8	651.8	632.9	639.6	645.2	651.3	655.7
57.5°	799.5	847.3	752.9	694.6	662.4	595.7	597.4	601.9	605.7	613.0	253.2
60°	755.6	792.8	682.9	646.3	582.4	551.3	553.0	560.8	564.7	315.4	174.3
62.5°	710.1	729.6	619.6	591.3	509.1	506.9	514.7	518.0	352.6	166.6	163.2
65°	657.9	654.0	557.4	512.5	459.2	461.4	469.7	453.1	156.0	156.0	154.9
67.5°	600.2	576.9	496.9	424.2	410.9	415.9	424.7	148.2	144.4	145.5	141.6
70°	534.1	501.4	434.2	359.2	363.7	368.7	143.2	134.4	132.7	129.9	122.1
72.5°	464.2	419.2	355.3	312.0	314.8	197.7	125.5	121.0	115.5	109.9	101.6
75°	385.9	327.6	261.0	261.0	264.8	112.7	109.4	102.2	96.1	88.8	83.8
77.5°	302.6	252.1	202.7	210.4	102.7	94.4	88.3	80.5	75.5	71.1	68.3
80°	221.5	176.0	152.7	136.6	80.0	71.6	65.5	61.1	58.9	56.1	52.7
82.5°	145.5	106.0	106.0	64.4	56.1	49.4	47.7	44.4	42.2	40.5	38.9
85°	69.4	61.6	46.6	39.4	35.0	31.6	30.5	28.9	28.9	28.3	27.8
87.5°	25.5	27.8	20.5	20.0	18.9	18.3	18.9	18.9	19.4	18.9	18.3
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1251.5	1255.9	1259.2	1264.8	1272.0	1278.1	1283.7	1291.4	1303.6	1307.0	1309.8
5°	1288.7	1290.3	1294.2	1298.7	1299.8	1302.5	1302.0	1305.3	1307.0	1310.9	1302.5
7.5°	1290.9	1282.0	1271.4	1262.0	1255.3	1249.2	1245.4	1251.5	1254.8	1257.6	1249.2
10°	1244.2	1233.7	1227.6	1222.0	1215.4	1205.9	1193.2	1195.9	1194.8	1194.8	1192.0
12.5°	1214.8	1199.8	1184.3	1170.4	1164.3	1163.7	1164.3	1170.4	1170.4	1169.8	1166.5
15°	1168.7	1154.3	1146.5	1143.2	1143.2	1141.5	1141.5	1148.2	1146.5	1146.5	1144.9
17.5°	1138.2	1128.2	1122.6	1118.8	1117.1	1119.9	1123.2	1126.0	1126.5	1124.3	1115.4
20°	1113.2	1103.8	1097.1	1098.2	1097.7	1099.3	1101.0	1091.6	1079.9	1064.3	1057.1
22.5°	1087.1	1079.9	1074.9	1074.9	1068.2	1057.7	1042.1	1038.8	1037.1	1029.9	1023.8
25°	1062.1	1053.8	1046.6	1024.4	1010.5	1012.2	1009.4	1003.8	1003.3	1002.7	1004.9
27.5°	1037.1	1015.5	987.7	984.4	978.8	978.3	981.6	984.4	984.4	986.6	989.4
30°	985.5	960.5	955.5	949.4	951.6	959.4	961.1	965.0	966.1	970.0	972.2
32.5°	938.3	927.2	922.8	925.5	932.8	939.4	943.3	945.0	947.8	951.1	953.9
35°	900.0	896.7	900.6	906.7	913.9	919.4	922.8	926.1	928.9	931.7	933.9
37.5°	871.7	873.9	879.5	887.2	894.5	898.9	901.7	905.6	909.4	912.8	899.5
40°	845.0	850.6	856.7	865.0	871.1	875.6	878.4	883.3	850.0	384.8	211.0
42.5°	821.7	827.8	832.3	838.9	845.6	848.9	824.5	368.1	208.2	207.1	209.9
45°	793.4	798.4	805.6	810.6	816.7	536.3	204.9	207.1	203.8	206.0	207.1
47.5°	764.5	772.3	776.2	740.7	220.4	203.8	201.5	203.8	201.5	204.3	202.7
50°	731.8	741.2	527.5	199.3	197.7	196.5	198.8	197.7	199.3	201.5	197.1
52.5°	698.5	432.5	193.2	192.1	193.2	192.1	196.0	193.2	193.8	191.5	186.0
55°	236.5	187.1	185.4	184.9	188.2	188.2	188.2	183.8	181.0	175.4	171.6
57.5°	181.0	181.0	180.4	181.0	179.9	178.8	173.8	169.9	166.0	158.2	156.0
60°	171.6	171.6	171.6	171.6	166.6	164.3	156.6	153.2	146.6	142.7	140.5
62.5°	163.8	162.7	157.7	156.0	150.5	144.4	139.9	136.6	129.9	127.7	126.0
65°	152.7	148.8	142.7	136.0	133.3	126.6	124.4	119.4	116.0	114.4	113.3
67.5°	134.4	128.8	123.8	119.4	114.4	112.2	109.4	105.5	103.3	102.2	101.0
70°	114.9	111.0	106.0	103.3	99.9	98.3	94.4	93.3	91.6	89.9	88.3
72.5°	96.1	93.8	91.6	87.7	86.6	85.5	81.6	79.4	77.2	75.0	73.8
75°	80.5	78.8	77.7	74.4	72.7	69.4	66.6	65.0	63.3	61.6	60.5
77.5°	66.1	65.0	61.6	59.4	58.3	55.5	54.4	55.0	53.9	51.6	50.5
80°	51.6	50.5	47.7	47.7	46.6	45.5	44.4	43.3	42.2	40.5	39.4
82.5°	39.4	38.3	37.2	36.1	35.0	34.4	33.9	32.8	31.6	30.5	30.0
85°	27.8	27.2	26.7	26.1	25.5	25.0	24.4	23.3	22.2	21.7	21.1
87.5°	18.9	18.3	17.8	17.2	16.7	16.1	15.5	15.0	13.9	13.3	12.8
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1309.8	1312.5	1309.8	1303.6	1299.8	1298.1	1301.4	1301.4	1303.6	1306.4	1307.0
5°	1289.2	1282.5	1274.8	1267.0	1263.1	1260.9	1254.8	1255.9	1257.6	1258.7	1259.8
7.5°	1238.1	1229.2	1218.7	1208.7	1204.8	1201.5	1194.3	1194.3	1194.3	1194.8	1198.2
10°	1185.9	1182.1	1177.6	1171.0	1166.0	1164.3	1158.2	1159.8	1158.7	1160.4	1164.3
12.5°	1161.5	1157.1	1153.2	1146.5	1141.0	1138.7	1136.0	1137.6	1137.1	1139.9	1143.2
15°	1139.3	1137.1	1132.6	1127.6	1122.6	1118.2	1108.2	1104.9	1102.7	1099.9	1103.8
17.5°	1102.7	1087.1	1076.6	1068.8	1063.2	1059.4	1056.6	1056.6	1058.2	1059.9	1063.2
20°	1052.7	1048.2	1043.3	1034.9	1029.4	1027.2	1025.5	1025.5	1028.3	1030.5	1036.6
22.5°	1018.3	1017.7	1016.0	1012.2	1009.4	1009.4	1009.9	1011.0	1014.9	1018.3	1024.4
25°	1002.2	1004.4	1003.3	1001.1	999.4	999.9	998.8	999.9	1003.8	1007.2	1012.2
27.5°	989.4	992.7	991.6	988.3	985.5	986.6	988.3	987.2	990.5	994.4	998.3
30°	972.2	972.7	975.0	971.1	970.0	971.6	972.2	973.3	976.6	979.4	982.7
32.5°	952.8	957.2	956.6	952.8	952.8	954.4	955.0	917.8	848.4	730.7	698.5
35°	933.9	938.9	930.5	784.5	543.0	289.8	223.8	216.0	217.6	218.8	219.9
37.5°	690.7	327.6	208.8	210.4	212.1	213.8	215.4	217.1	218.8	220.4	221.0
40°	207.7	207.1	208.8	211.0	212.6	213.8	216.0	217.6	219.3	221.0	221.5
42.5°	205.4	206.5	208.2	210.4	212.6	214.9	216.5	218.8	219.9	221.0	221.5
45°	204.3	206.5	208.8	210.4	212.1	213.2	214.3	214.9	214.3	214.3	215.4
47.5°	202.7	204.9	205.4	204.9	205.4	204.9	204.9	204.9	203.2	202.7	202.7
50°	196.5	196.5	195.4	193.2	192.7	192.1	191.0	190.4	188.2	187.7	187.7
52.5°	183.8	183.2	181.6	178.8	177.7	176.6	176.0	175.4	173.2	172.1	172.7
55°	168.8	167.7	166.0	162.7	162.1	161.0	160.5	159.9	157.7	158.8	157.1
57.5°	154.9	152.7	150.5	149.9	147.7	147.1	146.6	146.0	144.4	144.9	143.8
60°	138.2	137.7	136.6	134.4	134.4	133.8	133.8	132.7	131.6	131.0	131.0
62.5°	126.0	124.4	123.3	123.3	121.6	121.6	121.6	120.5	119.4	119.9	119.4
65°	112.7	112.2	111.6	110.5	110.5	109.9	109.9	108.8	107.2	107.7	106.6
67.5°	101.6	100.5	99.4	98.8	96.6	95.5	94.9	94.4	92.2	92.7	91.6
70°	87.7	86.1	84.9	83.8	82.2	81.1	81.1	80.0	78.3	78.8	77.7
72.5°	73.3	72.2	71.1	70.5	68.8	68.3	67.7	67.2	65.5	66.1	65.5
75°	61.1	61.1	60.5	60.0	58.3	56.6	55.5	55.0	53.9	54.4	53.3
77.5°	50.5	49.4	48.3	48.3	46.6	45.5	44.4	44.4	44.4	43.9	43.3
80°	39.4	38.3	38.3	37.8	36.6	35.5	35.0	35.0	34.4	34.4	33.9
82.5°	30.0	28.9	28.3	28.3	27.2	26.7	26.1	25.5	25.5	25.5	25.0
85°	21.1	20.0	19.4	19.4	18.3	17.8	17.8	17.2	17.2	16.7	16.7
87.5°	12.8	12.2	11.7	11.7	10.5	10.0	10.0	10.0	9.4	9.4	8.9
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1307.0	1307.0	1303.1	1304.2	1302.5	1304.8	1302.0	1302.0	1305.3	1305.3	1307.5
5°	1260.3	1257.6	1257.0	1255.9	1250.3	1252.6	1249.8	1247.0	1250.9	1250.9	1255.9
7.5°	1196.5	1191.5	1193.7	1190.4	1187.1	1182.1	1183.7	1181.5	1184.3	1188.2	1193.2
10°	1163.7	1159.3	1162.1	1158.7	1160.4	1153.2	1153.7	1154.3	1157.1	1158.2	1162.6
12.5°	1142.6	1141.5	1140.4	1139.3	1140.4	1136.5	1134.3	1134.9	1136.0	1136.5	1139.9
15°	1098.2	1091.0	1093.2	1085.4	1086.0	1086.6	1082.1	1086.6	1086.0	1093.2	1099.9
17.5°	1062.1	1062.1	1058.2	1054.9	1052.7	1052.1	1048.8	1051.0	1048.8	1053.2	1054.9
20°	1037.1	1036.6	1036.0	1034.4	1028.8	1029.4	1031.0	1026.0	1025.5	1024.9	1028.3
22.5°	1025.5	1026.0	1023.8	1023.8	1018.8	1019.9	1020.5	1014.9	1015.5	1013.8	1015.5
25°	1013.3	1014.4	1011.6	1011.6	1010.5	1009.9	1007.2	1008.3	1004.9	1002.2	1004.9
27.5°	998.8	1001.1	998.8	999.9	997.7	996.6	994.9	993.8	990.5	990.0	991.6
30°	985.5	986.6	986.1	983.3	982.7	979.4	981.1	977.7	974.4	975.0	976.1
32.5°	505.2	482.5	372.0	335.9	332.6	344.8	408.6	497.5	644.6	787.3	890.0
35°	220.4	220.4	220.4	219.9	219.9	219.3	218.8	218.2	217.6	217.1	216.5
37.5°	221.5	221.5	221.5	221.5	221.0	220.4	220.4	219.3	218.8	218.2	217.6
40°	222.1	222.6	222.6	222.6	222.1	222.1	221.5	220.4	219.9	218.8	217.6
42.5°	221.5	222.1	222.1	221.5	221.5	221.0	221.0	220.4	219.9	219.3	218.8
45°	214.3	214.9	213.8	213.8	213.2	213.2	213.2	213.2	213.2	213.8	213.8
47.5°	201.5	201.5	201.0	200.4	200.4	199.9	200.4	199.9	201.0	201.5	202.7
50°	186.6	186.6	185.4	184.9	184.9	184.9	184.9	185.4	186.0	187.1	188.2
52.5°	171.0	171.0	170.5	169.9	169.3	169.3	171.0	170.5	171.0	171.6	173.2
55°	156.0	156.6	155.5	155.5	154.9	154.9	154.9	155.5	156.0	156.6	158.2
57.5°	143.2	143.2	142.1	142.1	142.1	141.6	143.2	142.1	142.7	143.2	144.4
60°	130.5	129.9	129.9	129.4	129.4	129.4	130.5	129.9	129.9	130.5	131.6
62.5°	118.8	118.8	118.3	118.3	117.7	117.7	118.8	118.3	118.3	118.8	119.4
65°	105.5	105.5	104.9	104.4	106.0	104.4	106.0	104.9	106.0	106.6	107.7
67.5°	90.5	90.5	90.5	89.9	89.9	91.1	91.6	90.5	91.1	92.2	92.7
70°	77.2	77.2	76.6	76.6	76.6	77.7	78.3	77.2	77.7	78.3	79.4
72.5°	65.5	64.4	64.4	63.8	65.0	65.0	65.5	65.0	65.5	65.5	66.6
75°	53.9	52.7	52.7	52.7	53.9	53.3	53.9	53.3	53.9	53.9	54.4
77.5°	43.3	42.8	42.2	42.2	43.3	43.3	43.3	42.8	43.3	43.9	44.4
80°	33.9	33.3	32.8	32.8	33.9	33.9	33.9	34.4	33.9	34.4	35.0
82.5°	25.0	24.4	23.9	25.0	25.0	25.0	25.0	25.5	25.0	25.5	26.1
85°	16.7	16.1	15.5	16.7	16.7	16.7	16.7	17.2	16.7	17.2	17.8
87.5°	8.9	8.3	8.3	8.9	8.9	8.9	9.4	9.4	9.4	10.0	10.0
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1310.9	1312.5	1312.0	1308.6	1305.3	1301.4	1298.7	1299.2	1304.8	1306.4	1301.4
5°	1255.9	1266.4	1266.4	1273.7	1269.8	1266.4	1268.7	1280.9	1287.0	1296.4	1299.8
7.5°	1199.3	1204.3	1203.7	1210.9	1209.8	1209.8	1211.5	1227.6	1235.4	1243.1	1245.4
10°	1167.6	1172.6	1172.1	1172.6	1171.0	1167.1	1167.1	1174.3	1180.9	1184.8	1185.9
12.5°	1144.9	1147.6	1147.1	1147.1	1146.0	1142.6	1142.1	1148.2	1155.4	1160.4	1161.0
15°	1111.0	1118.8	1120.4	1127.6	1126.0	1121.5	1122.6	1127.6	1132.1	1136.5	1134.9
17.5°	1060.5	1064.3	1064.9	1067.7	1066.6	1066.6	1073.2	1091.6	1103.8	1114.3	1115.4
20°	1031.6	1034.4	1033.3	1039.4	1036.6	1036.0	1037.7	1045.5	1051.0	1056.0	1064.9
22.5°	1017.7	1019.9	1018.3	1018.8	1013.8	1009.4	1008.3	1014.4	1020.5	1027.2	1027.2
25°	1006.1	1007.7	1007.2	1006.1	1002.2	996.1	994.9	996.1	998.3	998.8	994.9
27.5°	992.2	993.3	993.3	993.8	988.8	983.3	982.2	981.1	983.3	982.7	976.6
30°	977.7	976.1	976.6	977.2	972.7	967.7	965.5	965.0	967.2	966.6	960.5
32.5°	943.3	956.1	957.2	958.3	954.4	950.0	947.8	946.1	947.2	946.6	941.1
35°	216.0	219.9	269.3	609.6	827.8	916.7	926.1	923.9	924.4	924.4	920.0
37.5°	216.5	216.0	215.4	213.8	212.1	211.0	364.8	777.9	901.1	901.7	897.8
40°	216.5	216.0	215.4	214.3	212.1	210.4	207.7	205.4	210.4	463.1	847.3
42.5°	217.6	216.5	215.4	214.3	212.1	209.9	207.7	204.9	206.5	205.4	202.7
45°	214.3	213.8	213.8	213.2	212.1	209.9	207.1	203.8	202.1	203.8	201.0
47.5°	203.8	204.3	206.0	206.5	206.5	207.1	205.4	203.2	200.4	202.1	198.8
50°	189.3	190.4	191.0	193.8	194.9	197.1	197.7	197.7	197.1	199.3	197.1
52.5°	173.8	174.9	177.7	178.8	179.9	183.2	184.3	186.0	187.1	190.4	192.7
55°	158.8	159.3	160.5	162.7	164.3	167.1	168.8	170.5	173.2	174.9	181.6
57.5°	144.9	145.5	147.7	148.2	149.4	151.6	153.2	155.5	157.7	158.8	166.6
60°	131.6	132.1	133.8	134.4	134.9	137.1	138.8	140.5	142.1	143.2	148.8
62.5°	119.9	119.9	121.6	121.6	122.1	123.8	124.9	126.0	127.7	128.3	131.0
65°	108.3	108.8	109.9	109.9	110.5	111.6	112.2	112.7	114.4	114.4	116.6
67.5°	93.8	94.4	96.1	97.2	97.7	99.9	100.5	101.0	102.2	102.7	103.8
70°	80.0	80.5	82.2	82.7	83.3	84.9	86.1	87.7	89.4	91.1	92.2
72.5°	67.2	67.7	69.4	69.4	71.1	71.6	72.7	73.3	75.0	76.1	77.7
75°	55.0	55.5	57.2	57.2	58.9	59.4	60.0	60.5	61.6	62.7	63.8
77.5°	45.0	45.0	47.2	48.3	49.4	49.4	50.0	50.0	50.0	50.5	51.6
80°	35.5	35.5	37.2	38.3	39.4	39.4	40.0	40.5	41.1	41.1	41.6
82.5°	26.7	26.7	28.3	28.9	30.0	30.0	30.0	30.5	31.1	30.5	31.6
85°	18.3	18.3	19.4	20.0	21.1	21.1	21.1	21.7	22.2	21.7	22.2
87.5°	10.5	11.1	11.7	12.2	12.8	13.3	13.3	13.3	13.9	13.9	14.4
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1295.9	1289.2	1288.7	1280.9	1278.7	1279.2	1273.1	1270.9	1260.9	1258.7	1248.1
5°	1300.9	1304.2	1302.5	1302.0	1303.6	1302.5	1298.1	1295.9	1294.2	1289.8	1280.9
7.5°	1245.9	1248.1	1249.8	1257.0	1263.1	1273.7	1284.8	1292.0	1297.5	1298.7	1291.4
10°	1189.8	1200.4	1207.6	1218.7	1227.6	1233.7	1240.4	1246.5	1262.6	1278.7	1288.1
12.5°	1161.0	1163.7	1163.2	1169.3	1175.4	1191.5	1207.0	1215.9	1228.1	1235.4	1252.6
15°	1136.5	1137.1	1138.7	1143.2	1146.5	1152.1	1159.3	1172.6	1197.0	1208.2	1217.6
17.5°	1114.3	1114.3	1115.4	1119.3	1123.8	1128.8	1133.2	1138.7	1151.0	1169.3	1192.6
20°	1078.8	1094.3	1096.0	1095.4	1097.7	1107.1	1108.2	1118.2	1124.3	1131.5	1154.3
22.5°	1026.0	1035.5	1048.8	1069.3	1077.1	1081.6	1084.9	1089.3	1098.8	1107.1	1116.5
25°	997.2	1003.3	1007.2	1013.3	1029.4	1055.5	1060.5	1065.5	1071.6	1077.7	1089.3
27.5°	971.6	971.1	973.8	979.4	983.8	997.7	1022.2	1041.6	1042.7	1051.6	1061.6
30°	953.3	950.0	946.1	945.0	951.1	958.3	965.5	996.1	1017.2	1021.6	1032.1
32.5°	936.1	930.5	925.0	920.5	916.7	922.8	927.2	940.5	967.7	993.3	998.8
35°	915.0	909.4	902.8	897.8	891.7	891.1	890.6	903.3	912.2	942.8	969.4
37.5°	893.3	887.2	881.7	876.1	870.0	865.6	862.8	866.1	874.5	887.8	932.2
40°	870.6	863.4	857.8	853.4	845.0	841.7	836.2	833.9	834.5	846.1	869.5
42.5°	520.2	829.5	832.3	827.3	820.1	815.6	809.5	806.7	801.2	806.7	820.1
45°	200.4	202.7	606.9	801.7	792.8	787.3	781.7	779.0	772.9	768.4	780.6
47.5°	196.5	198.8	194.3	275.4	756.8	758.4	751.8	749.0	742.9	739.5	736.2
50°	193.8	195.4	192.1	193.2	189.3	693.5	721.2	717.9	711.2	707.3	700.7
52.5°	191.0	191.0	188.8	186.0	184.9	185.4	583.5	686.2	678.5	674.6	665.7
55°	182.1	183.2	185.4	181.0	179.9	179.3	177.7	555.8	642.4	637.9	630.2
57.5°	168.8	171.0	177.1	176.0	176.0	171.6	170.5	170.5	515.8	600.7	593.0
60°	153.2	155.5	162.1	164.3	166.0	164.9	163.8	163.2	161.0	543.6	553.6
62.5°	137.1	139.4	141.6	148.8	151.0	153.8	157.1	155.5	153.2	153.2	511.9
65°	119.9	123.3	124.4	131.0	133.8	138.8	141.6	145.5	144.4	143.8	146.6
67.5°	104.9	108.8	109.4	112.2	117.2	119.4	122.7	129.9	133.3	134.4	135.5
70°	92.2	94.4	96.1	97.2	100.5	101.0	107.2	112.2	117.2	122.7	124.4
72.5°	79.4	81.1	84.4	83.3	84.4	86.6	89.9	93.3	98.3	106.0	111.0
75°	65.0	66.1	68.3	69.4	71.6	73.3	75.5	78.3	82.7	86.6	93.3
77.5°	52.2	52.7	54.4	55.0	57.2	58.9	62.7	64.4	67.2	70.0	73.8
80°	42.2	42.2	42.8	42.8	44.4	46.1	48.9	50.5	53.9	56.1	56.1
82.5°	32.2	32.2	33.9	33.9	35.0	35.0	36.6	36.6	38.3	39.4	40.5
85°	22.8	23.3	24.4	23.9	25.0	24.4	25.5	26.7	27.2	26.7	26.1
87.5°	15.0	15.0	16.1	15.5	16.1	16.1	17.2	17.2	17.8	17.8	17.2
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1244.2	1235.9	1230.9	1224.8	1223.1	1221.5	1223.7	1223.7	1220.4	1217.6	1212.6
5°	1273.1	1264.2	1254.8	1244.8	1235.4	1225.4	1221.5	1220.9	1214.8	1211.5	1209.8
7.5°	1288.1	1283.7	1273.1	1259.2	1244.8	1227.0	1219.3	1214.8	1208.7	1207.6	1207.6
10°	1289.8	1284.8	1279.2	1269.2	1252.6	1229.2	1214.3	1205.4	1199.8	1203.7	1210.9
12.5°	1273.7	1283.1	1278.1	1271.4	1258.1	1229.8	1208.2	1194.8	1193.2	1203.2	1222.0
15°	1232.6	1260.3	1274.2	1267.6	1257.0	1228.7	1198.2	1182.6	1182.6	1203.2	1227.6
17.5°	1201.5	1223.1	1257.0	1262.6	1250.3	1226.5	1188.7	1170.4	1175.4	1205.4	1231.5
20°	1175.9	1189.3	1222.0	1253.1	1241.5	1221.5	1174.8	1156.0	1166.0	1202.0	1237.0
22.5°	1136.0	1162.6	1182.6	1228.7	1232.6	1212.0	1161.0	1138.2	1158.2	1202.0	1234.2
25°	1097.1	1129.3	1150.4	1195.4	1219.3	1200.4	1148.2	1119.3	1149.9	1200.4	1232.0
27.5°	1069.9	1084.9	1123.2	1155.4	1199.3	1184.8	1131.0	1098.8	1139.3	1191.5	1219.3
30°	1041.0	1051.0	1088.8	1119.3	1172.6	1167.1	1113.2	1076.0	1126.0	1183.2	1185.9
32.5°	1009.4	1020.5	1039.9	1084.3	1135.4	1150.4	1093.2	1053.2	1111.5	1170.4	1147.1
35°	977.2	985.5	1001.1	1048.8	1092.1	1125.4	1068.8	1027.2	1101.5	1151.0	1109.9
37.5°	945.0	953.9	967.2	1007.2	1046.6	1102.1	1047.7	1001.1	1083.2	1116.5	1071.0
40°	914.4	919.4	933.3	958.3	1008.8	1078.2	1023.8	973.8	1064.3	1072.7	1018.3
42.5°	858.4	883.3	896.1	916.1	966.1	1045.5	996.1	945.0	1043.3	1028.8	965.5
45°	797.8	852.3	857.8	877.8	928.3	1010.5	970.0	916.7	1023.3	991.1	915.6
47.5°	748.4	787.9	820.1	836.7	883.3	969.4	945.5	892.8	993.3	943.3	866.7
50°	704.6	725.7	784.0	796.2	829.5	920.0	916.7	865.0	951.6	883.3	818.9
52.5°	661.8	676.8	729.6	755.6	782.9	866.7	882.2	837.8	906.1	823.4	770.6
55°	624.6	629.6	658.5	713.5	737.9	812.8	844.5	806.2	848.4	766.2	724.0
57.5°	586.3	581.9	603.0	673.5	691.2	757.9	804.5	774.0	801.7	707.9	675.7
60°	546.3	540.2	549.1	595.7	641.8	703.5	757.3	738.4	745.1	650.2	621.8
62.5°	504.7	498.6	495.8	525.2	593.5	647.4	709.6	699.0	675.7	597.4	555.2
65°	461.4	455.3	450.8	462.5	540.2	574.6	656.3	653.5	599.6	541.9	467.5
67.5°	140.5	414.2	404.8	404.2	455.3	508.6	598.5	594.1	523.0	482.5	402.5
70°	126.6	335.9	357.0	352.0	374.2	441.4	532.5	529.1	448.6	387.0	355.9
72.5°	116.0	118.8	315.4	309.8	314.8	375.3	463.6	454.7	380.3	305.4	307.6
75°	99.4	104.4	108.8	261.5	254.8	310.9	388.7	374.8	313.7	252.1	257.1
77.5°	81.1	87.2	90.5	190.4	206.0	221.5	310.4	292.0	216.0	201.5	96.1
80°	60.5	65.5	71.1	76.1	156.6	154.9	230.4	212.1	150.5	125.5	75.0
82.5°	44.4	46.1	49.4	55.0	62.2	103.8	148.2	130.5	104.4	57.2	51.6
85°	27.8	30.0	31.6	33.3	37.8	62.2	73.3	58.3	43.9	35.0	32.8
87.5°	17.8	17.8	17.2	17.8	18.3	22.2	25.0	23.9	18.9	17.8	17.8
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1207.0	1199.3	1199.3	1197.0	1198.7	1198.7	1198.2	1198.7	1202.6	1204.8	1208.7
5°	1206.5	1204.3	1209.3	1215.4	1222.6	1231.5	1233.7	1241.5	1248.7	1258.1	1268.1
7.5°	1213.7	1221.5	1230.9	1240.9	1255.3	1265.9	1275.3	1284.8	1291.4	1300.3	1305.9
10°	1224.3	1239.8	1255.9	1268.7	1284.2	1293.1	1299.2	1300.3	1290.9	1275.9	1263.7
12.5°	1239.2	1257.6	1272.6	1284.8	1292.0	1288.7	1270.9	1252.6	1242.0	1226.5	1204.8
15°	1252.0	1268.7	1284.2	1279.2	1259.8	1241.5	1227.6	1205.9	1184.8	1170.4	1161.0
17.5°	1257.6	1273.7	1268.1	1242.0	1223.7	1202.6	1174.3	1157.6	1143.7	1132.6	1127.1
20°	1260.9	1258.1	1228.1	1209.3	1173.7	1154.3	1136.0	1120.4	1109.9	1104.3	1103.2
22.5°	1252.0	1218.1	1192.6	1158.7	1132.6	1116.5	1102.1	1089.3	1082.1	1077.7	1074.9
25°	1222.6	1183.2	1145.4	1118.8	1096.6	1082.7	1071.6	1061.0	1052.1	1049.9	1044.4
27.5°	1181.5	1149.3	1099.3	1078.8	1059.4	1052.7	1040.5	1029.9	1022.2	1015.5	997.7
30°	1147.6	1096.6	1060.5	1041.6	1029.9	1022.2	1008.3	997.2	983.8	959.4	949.4
32.5°	1106.0	1055.5	1021.0	1010.5	996.1	989.4	973.8	949.4	928.9	918.9	918.3
35°	1052.1	1010.5	985.5	976.1	964.4	953.3	921.1	898.9	888.9	890.0	898.3
37.5°	1007.2	970.0	953.9	940.5	927.2	898.9	871.7	861.1	863.9	869.5	873.4
40°	961.6	933.3	915.0	904.4	874.5	846.7	832.3	836.2	841.2	845.0	850.0
42.5°	917.2	897.2	878.9	858.4	817.3	802.3	805.6	810.6	815.1	820.6	825.6
45°	875.0	857.3	836.2	789.5	769.0	772.9	777.9	781.7	788.4	792.3	797.3
47.5°	835.0	816.2	779.0	737.9	735.7	743.4	747.9	752.9	757.9	747.9	412.5
50°	790.1	770.6	714.0	698.5	703.5	710.7	716.2	721.2	642.4	255.4	196.5
52.5°	745.7	696.2	660.2	664.6	669.6	677.9	681.8	506.4	201.5	192.1	192.7
55°	696.2	632.9	622.4	627.9	632.4	640.7	424.7	186.0	184.9	184.3	188.8
57.5°	618.5	580.2	584.6	590.2	594.6	419.7	181.0	179.9	180.4	181.0	181.6
60°	549.1	540.8	545.8	550.8	389.8	174.9	171.6	172.1	174.3	172.7	168.2
62.5°	494.1	500.8	505.8	443.1	166.0	164.3	166.0	164.3	160.5	157.7	152.1
65°	451.9	458.6	462.5	156.0	155.5	157.7	156.0	150.5	144.4	136.6	134.9
67.5°	407.5	414.2	148.2	144.4	146.6	143.8	137.1	130.5	126.0	119.4	116.6
70°	361.4	154.9	134.4	133.8	129.9	125.5	118.3	111.6	106.0	103.3	100.5
72.5°	261.0	122.7	121.0	116.6	109.9	103.8	97.7	93.8	91.1	89.4	87.7
75°	108.8	106.6	101.6	93.8	87.2	84.4	80.0	77.2	76.1	72.7	71.6
77.5°	91.1	86.6	79.4	73.8	70.0	68.3	65.0	61.6	60.0	59.4	57.2
80°	70.0	63.8	60.5	57.7	56.6	52.7	48.9	47.2	46.1	45.5	43.9
82.5°	47.7	45.5	43.3	39.4	39.4	37.8	36.1	35.0	33.9	33.9	32.8
85°	31.1	29.4	28.9	27.2	27.2	26.1	25.5	25.0	24.4	23.9	23.3
87.5°	17.8	17.8	18.3	17.8	17.8	17.2	16.7	16.1	15.5	15.5	14.4
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1213.7	1219.3	1220.4	1239.2	1249.8	1249.2	1245.9	1255.9	1249.8	1246.5	1249.8
5°	1278.1	1284.8	1290.3	1310.9	1318.1	1321.4	1320.9	1326.4	1322.0	1318.1	1318.1
7.5°	1309.8	1312.0	1314.2	1309.2	1305.9	1300.3	1292.0	1279.8	1273.7	1267.0	1258.7
10°	1257.6	1250.3	1253.1	1243.1	1234.8	1228.7	1220.9	1210.9	1202.6	1196.5	1187.1
12.5°	1193.7	1193.2	1194.3	1195.9	1187.6	1182.6	1176.5	1169.3	1163.2	1156.5	1148.7
15°	1154.8	1155.4	1159.8	1158.2	1155.4	1152.6	1146.0	1143.7	1138.2	1131.0	1126.5
17.5°	1127.1	1129.9	1134.3	1132.1	1127.6	1124.9	1119.9	1114.9	1109.9	1104.3	1097.7
20°	1102.7	1105.4	1108.2	1105.4	1097.1	1093.2	1086.6	1071.0	1059.9	1048.8	1038.8
22.5°	1076.0	1077.7	1075.5	1066.6	1045.5	1035.5	1027.7	1023.3	1013.8	1007.7	1001.6
25°	1042.7	1033.3	1018.8	1008.8	1000.5	996.1	992.7	992.2	991.1	990.0	987.2
27.5°	988.3	985.0	977.2	973.3	973.8	975.5	976.1	977.7	976.1	973.8	971.6
30°	947.8	949.4	950.0	951.1	953.9	955.5	956.1	958.3	957.2	955.5	954.4
32.5°	922.2	926.1	928.3	931.7	933.3	936.1	936.1	939.4	936.1	935.5	934.4
35°	901.1	904.4	905.6	910.6	912.2	915.0	915.0	917.8	915.0	886.7	700.1
37.5°	880.0	883.3	885.6	890.0	890.6	892.2	823.4	602.4	388.7	300.9	229.9
40°	855.0	858.9	861.1	862.8	606.3	384.8	264.8	215.4	215.4	217.1	218.8
42.5°	828.4	831.2	579.1	337.0	209.9	209.3	211.0	212.6	214.3	216.5	218.8
45°	651.3	328.7	208.8	203.8	205.4	207.7	209.9	212.1	214.9	217.1	218.2
47.5°	213.8	200.4	203.2	201.0	203.8	206.5	208.8	211.0	211.5	212.1	211.5
50°	197.7	197.7	199.3	199.3	201.5	202.7	202.7	202.7	200.4	199.9	198.2
52.5°	191.0	195.4	193.2	194.3	193.2	191.5	189.9	188.2	184.9	183.8	181.6
55°	187.7	189.3	183.8	182.1	179.9	175.4	173.2	171.0	168.2	167.1	164.3
57.5°	179.9	176.0	169.9	167.1	163.2	158.8	156.6	154.9	152.1	151.0	149.4
60°	165.5	157.7	153.8	150.5	146.0	142.1	140.5	139.4	137.1	136.6	134.9
62.5°	147.7	141.0	137.7	133.3	129.9	127.7	126.0	125.5	123.3	123.3	122.1
65°	128.3	124.9	122.1	117.7	116.0	113.8	113.3	112.7	111.6	111.0	109.9
67.5°	112.7	110.5	106.6	104.4	103.3	101.6	100.5	99.4	97.2	96.1	94.4
70°	98.8	97.2	93.3	91.6	89.4	86.6	84.9	83.8	82.2	81.1	79.4
72.5°	85.5	80.5	77.7	76.1	74.4	71.6	71.1	70.0	68.3	67.7	66.1
75°	68.8	65.0	63.3	62.2	60.5	58.9	58.9	58.9	57.2	56.6	56.1
77.5°	55.0	52.7	51.6	50.5	50.0	48.9	47.2	46.6	45.0	45.0	44.4
80°	42.2	41.1	40.0	39.4	38.9	37.8	36.6	36.1	34.4	34.4	33.9
82.5°	31.1	30.5	30.0	29.4	28.9	28.3	26.7	26.1	25.0	25.0	24.4
85°	22.2	21.7	20.5	20.0	20.0	19.4	17.8	17.2	16.1	16.1	16.1
87.5°	13.9	13.3	12.8	12.2	11.7	11.1	10.0	9.4	9.4	8.3	7.8
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1243.1	1252.6	1251.5	1258.1	1259.8	1263.1	1264.2	1264.8	1256.5	1263.1	1263.7
5°	1316.4	1318.1	1319.2	1322.0	1324.7	1325.3	1322.5	1319.2	1320.3	1318.1	1312.5
7.5°	1257.6	1249.2	1247.6	1245.4	1244.2	1243.1	1238.1	1242.6	1237.6	1235.4	1227.6
10°	1185.4	1177.6	1177.1	1177.1	1178.7	1178.2	1177.1	1174.8	1179.3	1176.5	1174.8
12.5°	1147.6	1144.9	1146.5	1145.4	1149.9	1151.0	1149.9	1149.9	1148.7	1146.5	1147.6
15°	1124.9	1122.6	1124.3	1122.6	1126.0	1126.5	1123.8	1125.4	1122.6	1119.9	1118.8
17.5°	1094.9	1089.9	1086.0	1080.5	1081.0	1079.9	1076.6	1076.6	1073.8	1066.6	1067.1
20°	1037.1	1032.1	1029.9	1029.9	1032.7	1033.8	1033.3	1034.4	1031.6	1030.5	1026.0
22.5°	1001.1	1000.5	1001.6	1004.4	1008.8	1014.9	1015.5	1015.5	1015.5	1014.9	1009.4
25°	988.3	988.3	989.4	993.3	996.6	1001.1	1002.2	1003.3	1002.2	1002.2	997.2
27.5°	973.8	972.7	975.0	978.8	982.7	986.1	988.8	989.4	987.7	987.7	989.4
30°	956.1	955.5	958.3	962.2	965.5	968.9	971.6	973.8	971.6	971.6	970.0
32.5°	937.8	937.8	938.9	915.6	848.9	764.5	766.2	717.3	683.5	640.7	697.4
35°	585.2	425.9	365.9	309.8	270.4	244.9	244.3	236.0	232.1	229.3	228.7
37.5°	221.0	222.1	224.3	225.4	227.1	228.2	228.7	228.7	228.7	228.7	228.2
40°	220.4	222.6	224.3	226.0	227.6	228.7	228.7	229.3	229.9	229.9	229.9
42.5°	221.0	223.2	225.4	227.1	228.2	228.7	229.3	229.9	229.9	229.9	229.9
45°	220.4	221.5	221.5	222.1	222.1	222.1	222.6	222.6	222.1	221.5	222.6
47.5°	212.1	212.1	210.4	209.9	209.3	208.2	208.8	208.2	207.7	207.1	208.2
50°	197.7	195.4	194.3	193.2	192.7	191.5	192.1	191.5	191.0	189.9	191.5
52.5°	180.4	179.9	177.7	176.6	176.0	176.6	175.4	174.9	174.3	173.8	174.3
55°	163.8	161.6	161.0	159.9	159.3	159.9	159.3	158.8	158.2	157.7	158.2
57.5°	148.8	147.1	146.6	145.5	145.5	145.5	145.5	144.9	144.4	143.8	144.4
60°	134.4	133.3	132.7	132.7	132.1	132.1	132.1	131.6	131.0	131.0	131.6
62.5°	122.1	122.1	120.5	119.9	119.9	120.5	119.9	119.4	118.8	118.3	119.4
65°	109.4	107.2	106.6	105.5	104.4	104.9	104.4	103.8	103.3	102.7	103.8
67.5°	93.8	93.3	91.1	89.9	89.4	89.9	89.4	88.8	88.3	87.7	88.8
70°	78.8	78.8	76.6	76.1	75.5	75.5	75.0	75.0	74.4	73.8	75.0
72.5°	65.5	65.5	65.0	63.8	63.3	62.7	62.2	61.6	61.6	62.2	62.2
75°	54.4	53.3	51.1	51.6	51.1	50.5	50.5	50.0	49.4	50.5	50.0
77.5°	42.8	42.2	40.5	41.1	40.5	40.0	40.0	39.4	38.9	39.4	39.4
80°	32.2	32.2	31.6	31.1	31.1	30.5	30.0	30.0	29.4	30.0	30.0
82.5°	23.3	23.3	22.8	22.2	21.7	21.7	21.1	21.1	21.1	21.1	21.1
85°	15.0	14.4	14.4	13.3	13.3	13.3	12.8	12.8	12.8	12.8	12.8
87.5°	7.2	7.2	6.7	6.7	6.1	5.6	5.6	5.0	5.0	5.6	5.6
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1253.7	1260.9	1254.8	1257.6	1258.1	1267.6	1267.0	1269.2	1265.3	1260.9	1254.8
5°	1317.5	1314.2	1309.8	1320.3	1314.8	1321.4	1323.6	1328.1	1328.1	1327.5	1322.5
7.5°	1235.9	1228.7	1234.2	1238.1	1239.8	1235.4	1244.2	1254.2	1262.6	1267.6	1268.1
10°	1172.1	1174.3	1173.7	1175.4	1179.3	1178.7	1184.3	1189.8	1192.0	1195.4	1196.5
12.5°	1142.1	1141.5	1142.6	1146.5	1148.7	1148.2	1153.7	1157.1	1158.2	1158.7	1158.2
15°	1118.2	1114.3	1117.1	1117.7	1119.3	1119.3	1126.0	1131.0	1133.2	1134.3	1133.2
17.5°	1073.2	1063.8	1072.7	1072.7	1078.8	1077.7	1088.2	1096.6	1101.0	1104.3	1104.3
20°	1028.8	1024.4	1027.7	1026.6	1031.0	1030.5	1037.1	1042.7	1046.6	1049.4	1052.7
22.5°	1011.0	1012.2	1007.2	1007.7	1007.7	1007.2	1010.5	1013.3	1014.4	1016.0	1014.9
25°	999.4	1000.5	998.8	996.1	994.9	996.1	997.7	1001.1	1001.6	1000.5	996.6
27.5°	987.7	984.4	987.2	982.2	981.1	983.3	985.5	986.1	986.6	986.6	983.3
30°	970.0	967.2	970.0	967.7	965.5	967.7	969.4	969.4	970.5	971.1	967.2
32.5°	677.9	683.5	773.4	827.8	904.4	943.3	950.5	950.5	951.6	951.6	948.3
35°	231.0	231.5	250.4	271.5	316.5	372.0	444.7	482.5	610.2	762.9	910.6
37.5°	228.2	227.6	227.1	226.5	226.0	225.4	224.3	223.8	227.1	269.3	365.3
40°	229.3	228.7	227.6	227.1	226.5	225.4	224.9	223.8	222.6	221.5	220.4
42.5°	229.3	228.7	228.2	227.6	227.1	226.5	225.4	224.3	223.2	221.5	219.9
45°	221.5	221.5	222.1	222.1	222.6	222.6	222.6	222.1	222.1	221.5	219.3
47.5°	207.1	207.1	208.8	208.8	209.9	211.0	211.0	212.1	213.8	214.9	215.4
50°	190.4	190.4	192.1	192.7	193.8	195.4	197.1	197.7	199.3	201.5	203.8
52.5°	173.8	173.8	175.4	175.4	176.6	178.2	179.9	180.4	182.7	184.9	187.7
55°	158.2	158.2	159.3	159.9	160.5	161.6	163.2	163.2	165.5	167.1	169.9
57.5°	144.4	145.5	145.5	145.5	146.0	147.1	148.2	148.2	149.9	151.6	153.8
60°	131.0	132.1	132.1	132.1	132.7	133.3	134.4	134.4	135.5	136.6	138.8
62.5°	118.8	119.9	119.9	120.5	120.5	121.0	122.1	121.6	122.7	123.3	124.9
65°	103.3	104.4	104.9	105.5	106.0	107.2	108.8	108.3	109.9	111.0	112.7
67.5°	88.3	89.4	89.4	89.9	90.5	91.6	92.7	92.7	94.4	95.5	97.7
70°	74.4	75.5	75.5	76.1	76.6	77.7	78.8	78.3	80.0	81.1	82.7
72.5°	61.6	62.7	62.7	63.3	63.3	64.4	65.5	66.6	66.6	67.7	68.8
75°	50.0	50.5	51.1	51.1	51.6	52.2	53.3	54.4	55.0	55.5	56.6
77.5°	39.4	40.0	40.5	40.5	41.1	41.6	42.2	44.4	45.5	46.1	46.1
80°	30.0	30.5	30.5	30.5	31.1	31.6	32.8	32.8	35.0	35.0	35.5
82.5°	21.1	21.7	21.7	21.7	22.2	23.3	23.9	24.4	25.5	26.1	26.1
85°	12.8	13.3	13.3	13.3	13.9	14.4	15.5	16.1	16.7	16.7	17.2
87.5°	5.0	5.6	6.1	6.1	6.7	7.2	7.8	8.3	8.9	8.9	9.4
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: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1248.1	1252.0	1248.1	1250.3	1253.1	1248.1	1236.5	1232.0	1230.4	1223.7	1219.3
5°	1317.5	1317.5	1315.9	1320.3	1319.7	1312.0	1299.8	1294.2	1288.7	1281.4	1275.9
7.5°	1268.1	1272.6	1275.3	1292.5	1303.6	1304.8	1312.5	1314.2	1316.4	1314.2	1310.9
10°	1197.0	1195.4	1203.2	1219.3	1228.7	1233.7	1248.7	1255.9	1262.0	1274.2	1287.0
12.5°	1157.1	1159.3	1162.6	1174.3	1183.2	1180.9	1187.1	1192.0	1199.3	1211.5	1229.8
15°	1130.4	1132.6	1136.0	1144.9	1150.4	1147.6	1151.0	1154.3	1159.3	1165.4	1176.5
17.5°	1101.5	1105.4	1109.3	1118.8	1123.8	1123.2	1126.0	1127.1	1128.8	1132.6	1140.4
20°	1056.6	1068.8	1076.6	1089.3	1096.6	1095.4	1100.4	1102.1	1104.3	1108.2	1111.5
22.5°	1015.5	1018.8	1022.7	1036.6	1048.8	1063.8	1067.1	1071.6	1077.1	1081.0	1084.3
25°	992.2	990.0	991.6	1001.1	1007.7	1008.8	1013.8	1028.3	1043.3	1049.9	1057.7
27.5°	978.3	976.1	975.5	980.0	981.1	978.3	977.2	981.6	992.7	1003.8	1027.2
30°	963.3	960.5	958.3	962.2	963.9	960.0	952.8	948.9	955.5	958.3	967.7
32.5°	945.5	942.8	941.6	943.9	945.0	941.6	933.9	929.4	928.3	926.1	928.3
35°	925.5	922.8	921.1	921.7	923.9	921.1	914.4	908.9	906.1	900.0	895.6
37.5°	476.9	675.7	877.2	898.3	900.6	900.0	893.3	887.2	884.5	877.2	875.0
40°	218.2	243.7	365.9	478.0	689.6	876.1	870.0	863.9	858.9	856.7	848.4
42.5°	217.6	218.2	218.8	216.0	267.6	455.8	672.9	840.0	836.7	831.2	825.1
45°	217.6	214.9	217.1	213.8	214.9	214.3	267.1	430.8	766.8	801.2	798.4
47.5°	215.4	213.8	216.0	213.2	209.9	211.5	209.3	212.1	330.9	561.3	769.0
50°	205.4	206.5	210.4	209.9	207.1	209.3	205.4	208.8	206.0	226.0	435.3
52.5°	190.4	192.7	196.5	199.9	201.0	203.8	202.7	203.8	201.5	202.1	202.7
55°	172.7	175.4	178.8	183.8	186.0	190.4	193.8	195.4	198.2	197.7	193.2
57.5°	156.0	158.8	161.6	166.6	171.6	173.8	179.9	183.2	190.4	188.8	187.7
60°	140.5	142.7	145.5	146.6	152.7	156.6	162.1	165.5	174.9	177.1	180.4
62.5°	126.6	127.7	129.9	131.6	135.5	139.4	142.1	147.7	152.7	159.9	164.9
65°	113.8	114.9	116.6	117.7	118.3	123.8	125.5	131.6	133.3	141.0	145.5
67.5°	99.4	101.6	103.8	104.9	106.0	109.4	110.5	113.3	117.2	120.5	126.0
70°	84.4	86.1	88.3	89.9	92.2	94.4	97.7	99.4	102.2	104.4	108.8
72.5°	70.5	72.2	73.3	75.0	76.6	78.3	81.1	84.9	87.2	91.1	92.2
75°	57.2	58.9	60.0	61.1	62.7	63.8	65.0	68.8	71.1	74.4	77.7
77.5°	47.2	47.2	48.3	51.6	51.1	51.1	52.2	54.4	56.1	58.3	61.6
80°	36.6	37.2	37.8	40.5	41.1	41.6	41.1	42.8	44.4	45.0	47.2
82.5°	27.2	27.8	27.8	29.4	31.1	31.1	31.1	31.6	33.3	33.9	35.0
85°	18.3	18.9	19.4	20.0	21.1	21.7	22.2	22.2	23.3	23.9	24.4
87.5°	10.0	11.1	11.7	12.2	12.8	13.3	13.9	14.4	15.0	15.5	16.1
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: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1217.6	1214.8	1213.1	1208.7	1207.6	1200.4	1201.5	1200.4	1200.4	1202.0	1207.6
5°	1269.8	1256.5	1253.1	1243.7	1235.9	1222.6	1214.3	1209.8	1203.2	1200.4	1204.3
7.5°	1305.3	1295.3	1287.0	1278.7	1267.6	1252.0	1240.4	1227.0	1215.9	1205.4	1202.6
10°	1299.2	1310.3	1310.3	1305.3	1294.8	1279.2	1265.3	1248.7	1229.2	1212.6	1202.6
12.5°	1247.6	1267.0	1282.5	1294.2	1304.8	1294.2	1280.3	1267.0	1245.4	1220.9	1202.6
15°	1190.9	1210.9	1230.4	1254.8	1280.3	1290.9	1290.3	1274.8	1255.3	1229.8	1204.3
17.5°	1151.0	1164.8	1175.4	1202.0	1233.1	1260.3	1278.7	1279.8	1260.9	1238.1	1204.8
20°	1121.0	1131.0	1139.9	1154.8	1182.1	1215.4	1249.2	1268.1	1264.8	1239.8	1206.5
22.5°	1093.8	1101.0	1108.2	1119.3	1141.0	1162.6	1202.0	1240.9	1257.6	1237.0	1204.8
25°	1066.6	1074.3	1079.9	1087.7	1104.9	1122.6	1150.4	1198.7	1235.9	1234.8	1201.5
27.5°	1034.4	1044.9	1051.6	1062.1	1073.8	1087.1	1106.0	1151.5	1204.8	1223.7	1192.6
30°	995.5	1011.0	1021.0	1032.7	1042.7	1054.4	1069.3	1097.1	1163.2	1202.0	1183.2
32.5°	939.4	967.2	989.4	1000.5	1011.6	1021.6	1034.9	1058.2	1112.1	1172.6	1172.6
35°	899.5	912.2	932.2	964.4	978.3	988.3	1000.5	1018.8	1053.2	1137.6	1155.4
37.5°	868.4	873.4	883.3	915.0	941.1	957.2	969.4	981.1	1014.9	1089.9	1133.2
40°	845.0	843.4	842.3	857.3	894.5	920.0	933.9	945.5	971.6	1032.7	1103.8
42.5°	817.8	816.2	810.6	814.5	832.8	875.6	896.7	909.4	931.1	972.7	1071.6
45°	789.5	786.7	784.5	780.6	787.3	811.2	854.5	873.4	885.6	922.8	1031.0
47.5°	760.6	756.8	754.0	750.7	746.8	757.9	799.0	832.8	853.9	877.2	982.2
50°	719.6	724.6	721.2	717.3	714.0	711.8	729.0	784.5	810.6	829.5	922.8
52.5°	339.2	659.6	687.4	683.5	679.0	675.1	679.0	721.2	768.4	783.4	851.1
55°	193.2	293.7	611.3	646.3	642.4	636.8	633.5	647.9	718.4	738.4	785.6
57.5°	186.0	186.6	269.8	582.4	604.1	599.1	595.2	598.5	658.5	692.4	728.4
60°	179.9	179.9	179.9	257.6	556.9	558.5	553.6	548.0	574.1	640.7	670.7
62.5°	166.6	169.9	171.6	171.6	254.3	515.8	510.8	509.1	510.2	578.5	613.0
65°	149.4	157.1	160.5	162.7	162.7	267.1	466.9	464.2	460.3	486.4	554.7
67.5°	130.5	138.2	145.5	149.9	150.5	155.5	278.7	418.1	412.5	413.1	492.5
70°	111.0	117.7	125.5	132.1	138.2	141.0	145.5	347.0	365.3	357.6	422.0
72.5°	96.1	98.8	104.4	111.0	118.3	124.9	128.8	138.2	317.0	308.7	320.9
75°	80.0	82.2	86.1	90.5	96.1	103.8	110.5	117.2	168.2	258.7	257.1
77.5°	62.2	66.1	70.5	73.3	76.1	81.6	90.5	97.2	103.8	174.9	206.0
80°	47.7	50.5	52.7	55.5	58.9	62.7	66.1	73.8	81.6	87.7	157.7
82.5°	35.5	37.2	38.9	40.0	41.1	43.3	49.4	52.2	57.2	62.7	74.4
85°	25.0	26.1	27.2	27.8	28.3	28.9	31.1	31.6	36.6	37.8	45.0
87.5°	16.1	16.7	17.8	18.3	18.3	18.9	19.4	19.4	19.4	18.3	22.2
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: P1214082

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1211.5	1211.5
2.5°	1212.0	1220.9
5°	1210.4	1222.0
7.5°	1205.9	1217.0
10°	1199.3	1212.6
12.5°	1192.0	1204.8
15°	1185.9	1195.4
17.5°	1179.3	1184.8
20°	1170.4	1174.8
22.5°	1161.5	1159.3
25°	1151.5	1146.5
27.5°	1138.7	1129.3
30°	1127.1	1110.4
32.5°	1116.0	1088.8
35°	1101.0	1066.6
37.5°	1085.4	1043.8
40°	1067.1	1017.7
42.5°	1047.7	991.6
45°	1023.3	966.6
47.5°	1001.6	936.6
50°	971.6	904.4
52.5°	935.0	874.5
55°	891.7	837.8
57.5°	845.0	799.5
60°	795.1	755.6
62.5°	734.6	710.1
65°	663.5	657.9
67.5°	570.8	600.2
70°	468.0	534.1
72.5°	391.4	464.2
75°	320.9	385.9
77.5°	254.3	302.6
80°	158.8	221.5
82.5°	106.6	145.5
85°	64.4	69.4
87.5°	25.0	25.5
90°	0.0	0.0

(END OF REPORT)