

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: P1212991

Luminaire Tested: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212991
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: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

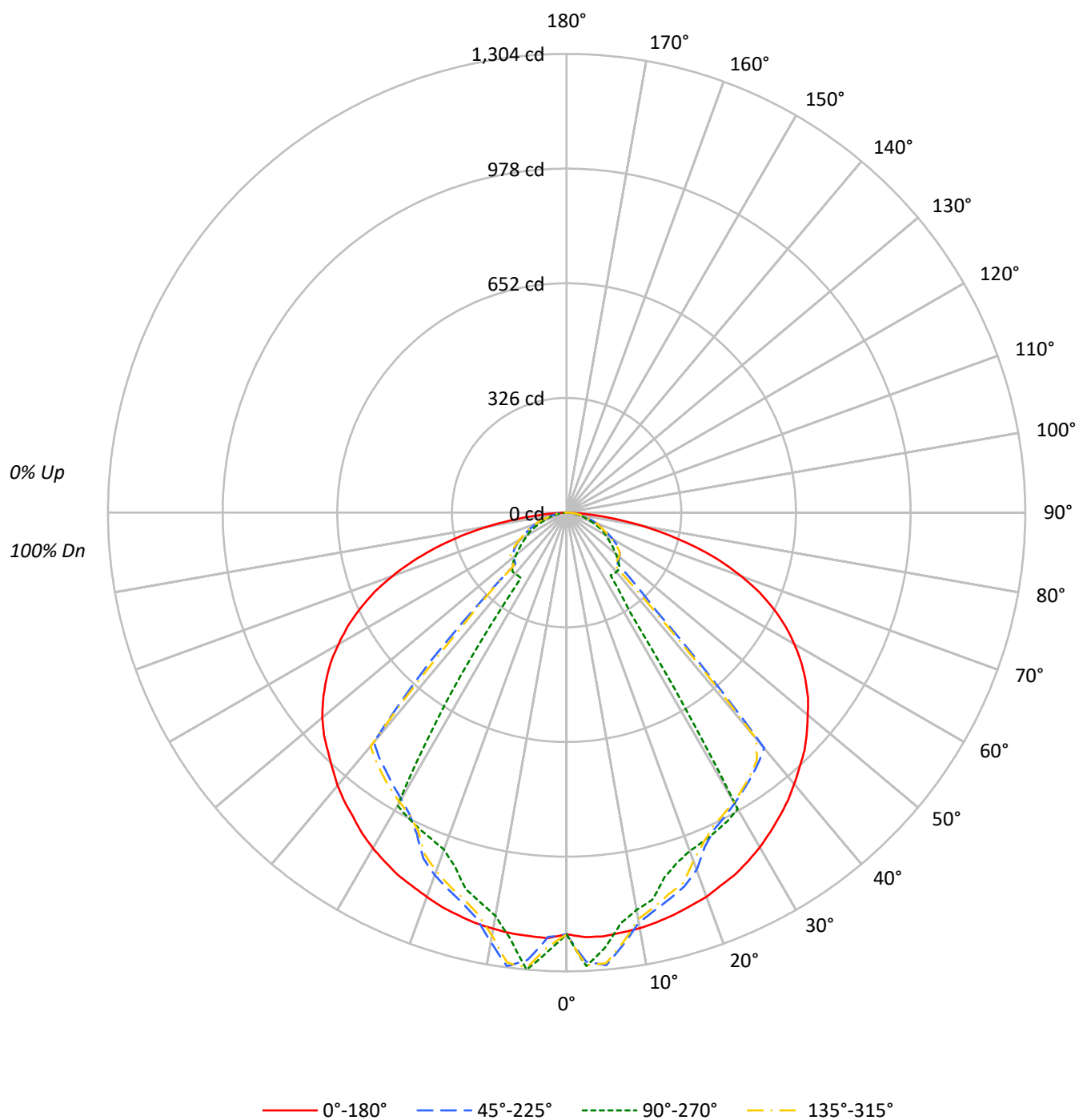
Lumens per Lamp: N/A
Luminaire Lumens: 2400.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 27
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19370	19370	19370	19370
5°	19506	19516	19498	20483
10°	19472	17644	19498	17915
15°	19462	16325	19506	16843
20°	19544	15484	19544	15425
25°	19653	15188	19683	15046
30°	19787	14919	19837	14743
35°	19945	3398	19986	3543
40°	20183	3535	20303	3648
45°	20572	3515	20643	3643
50°	20939	3177	21220	3262
55°	21440	2821	21611	2862
60°	21805	2507	21852	2539
65°	21950	2189	21893	2153
70°	21310	1763	21241	1701
75°	19327	1358	19469	1300
80°	15063	964	15660	883
85°	7431	578	7842	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 22437 cd/sqm

TEST NUMBER: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	4.9
10°-20°	324.2	13.5
20°-30°	480.2	20.0
30°-40°	483.9	20.2
40°-50°	378.0	15.7
50°-60°	292.0	12.2
60°-70°	196.0	8.2
70°-80°	100.0	4.2
80°-90°	27.8	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°	922.4	38.4
0°-40°	1406.2	58.6
0°-60°	2076.2	86.5
0°-90°	2400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1198	1198	1198	1198	1198	
5°	1209	1242	1208	1304	1209	115
15°	1183	1074	1185	1108	1183	334
25°	1134	1001	1136	991	1134	523
35°	1055	218	1057	227	1055	661
45°	956	212	960	219	956	737
55°	829	154	835	156	829	740
65°	651	103	649	102	651	640
75°	382	52	384	50	382	399
85°	69	16	72	13	69	94
90°	0	0	0	0	0	

TEST NUMBER: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1207.8	1212.2	1215.5	1217.7	1218.8	1218.8	1219.4	1219.9	1227.1	1230.4	1232.6
5°	1208.9	1213.3	1219.9	1228.7	1236.4	1243.0	1248.5	1256.2	1263.9	1272.1	1274.8
7.5°	1204.0	1209.5	1222.7	1238.6	1253.4	1263.9	1271.0	1275.9	1279.8	1280.3	1283.1
10°	1199.6	1209.5	1227.6	1248.5	1267.2	1279.8	1279.8	1277.0	1280.9	1266.1	1251.2
12.5°	1191.9	1202.9	1227.6	1255.1	1272.6	1277.6	1275.4	1264.4	1241.9	1223.8	1215.5
15°	1182.6	1197.4	1228.2	1258.9	1273.7	1275.4	1254.5	1226.5	1209.5	1198.5	1184.8
17.5°	1172.1	1191.9	1228.7	1259.5	1265.0	1257.3	1217.7	1200.1	1182.6	1156.8	1138.1
20°	1162.2	1181.5	1224.3	1251.8	1255.1	1220.5	1189.7	1171.0	1141.4	1118.9	1110.6
22.5°	1146.9	1169.4	1220.5	1241.3	1228.7	1188.6	1159.0	1129.3	1102.4	1095.8	1085.9
25°	1134.2	1157.9	1211.7	1228.7	1195.2	1159.5	1124.9	1090.3	1077.7	1068.3	1059.5
27.5°	1117.2	1146.3	1200.1	1205.6	1159.5	1128.2	1077.7	1062.3	1050.7	1040.3	1036.5
30°	1098.5	1134.2	1184.2	1173.8	1129.8	1083.7	1046.4	1032.1	1023.8	1012.8	1008.5
32.5°	1077.1	1116.1	1166.6	1137.0	1098.0	1040.3	1016.1	1005.2	994.2	985.9	958.5
35°	1055.1	1100.2	1145.8	1101.8	1059.5	1007.4	985.9	976.0	965.6	935.4	906.8
37.5°	1032.6	1082.6	1120.5	1063.9	1008.5	973.3	955.2	944.2	920.6	882.1	867.8
40°	1006.8	1061.2	1088.1	1024.9	964.0	938.7	921.7	910.7	857.4	840.4	836.0
42.5°	981.0	1040.3	1048.5	987.0	927.2	901.9	887.6	851.4	815.1	806.3	808.0
45°	956.3	1017.8	1005.2	933.2	888.7	867.8	843.7	793.7	774.5	778.9	780.0
47.5°	926.6	990.9	959.6	879.4	849.2	828.3	774.5	744.3	741.5	747.6	750.8
50°	894.8	960.7	911.2	830.5	806.3	781.6	720.6	705.3	708.6	714.6	718.4
52.5°	865.1	926.6	861.2	784.9	764.0	707.5	666.3	669.0	674.5	681.6	683.8
55°	828.8	885.4	808.0	738.8	719.0	644.8	626.2	632.8	638.2	644.3	648.7
57.5°	790.9	838.2	744.8	687.1	655.3	589.4	591.0	595.4	599.2	606.4	250.5
60°	747.6	784.4	675.6	639.3	576.2	545.4	547.1	554.8	558.6	312.0	172.5
62.5°	702.5	721.7	613.0	585.0	503.7	501.5	509.2	512.5	348.8	164.8	161.5
65°	650.9	647.0	551.5	507.0	454.2	456.4	464.7	448.2	154.3	154.3	153.2
67.5°	593.8	570.7	491.6	419.6	406.5	411.4	420.2	146.7	142.8	143.9	140.1
70°	528.4	496.0	429.5	355.4	359.8	364.7	141.7	132.9	131.3	128.5	120.8
72.5°	459.2	414.7	351.5	308.7	311.4	195.5	124.1	119.7	114.2	108.8	100.5
75°	381.7	324.1	258.2	258.2	262.0	111.5	108.2	101.1	95.0	87.9	82.9
77.5°	299.3	249.4	200.5	208.2	101.6	93.4	87.3	79.6	74.7	70.3	67.6
80°	219.2	174.1	151.0	135.1	79.1	70.9	64.8	60.4	58.2	55.5	52.2
82.5°	143.9	104.9	104.9	63.7	55.5	48.9	47.2	43.9	41.7	40.1	38.4
85°	68.7	61.0	46.1	39.0	34.6	31.3	30.2	28.6	28.6	28.0	27.5
87.5°	25.3	27.5	20.3	19.8	18.7	18.1	18.7	18.7	19.2	18.7	18.1
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1238.0	1242.4	1245.7	1251.2	1258.4	1264.4	1269.9	1277.6	1289.7	1293.0	1295.7
5°	1274.8	1276.5	1280.3	1284.7	1285.8	1288.6	1288.0	1291.3	1293.0	1296.8	1288.6
7.5°	1277.0	1268.3	1257.8	1248.5	1241.9	1235.8	1232.0	1238.0	1241.3	1244.1	1235.8
10°	1230.9	1220.5	1214.4	1208.9	1202.3	1193.0	1180.4	1183.1	1182.0	1182.0	1179.3
12.5°	1201.8	1187.0	1171.6	1157.9	1151.8	1151.3	1151.8	1157.9	1157.9	1157.3	1154.0
15°	1156.2	1141.9	1134.2	1130.9	1130.9	1129.3	1129.3	1135.9	1134.2	1134.2	1132.6
17.5°	1126.0	1116.1	1110.6	1106.8	1105.1	1107.9	1111.2	1113.9	1114.5	1112.3	1103.5
20°	1101.3	1091.9	1085.3	1086.4	1085.9	1087.5	1089.2	1079.9	1068.3	1052.9	1045.8
22.5°	1075.5	1068.3	1063.4	1063.4	1056.8	1046.4	1031.0	1027.7	1026.0	1018.9	1012.8
25°	1050.7	1042.5	1035.4	1013.4	999.7	1001.3	998.6	993.1	992.5	992.0	994.2
27.5°	1026.0	1004.6	977.1	973.8	968.4	967.8	971.1	973.8	973.8	976.0	978.8
30°	974.9	950.2	945.3	939.2	941.4	949.1	950.8	954.6	955.7	959.6	961.8
32.5°	928.3	917.3	912.9	915.6	922.8	929.4	933.2	934.9	937.6	940.9	943.6
35°	890.4	887.1	890.9	897.0	904.1	909.6	912.9	916.2	918.9	921.7	923.9
37.5°	862.3	864.5	870.0	877.7	884.9	889.3	892.0	895.9	899.7	903.0	889.8
40°	836.0	841.5	847.5	855.8	861.8	866.2	868.9	873.9	840.9	380.6	208.7
42.5°	812.9	819.0	823.3	829.9	836.5	839.8	815.7	364.2	206.0	204.9	207.6
45°	784.9	789.8	797.0	801.9	808.0	530.6	202.7	204.9	201.6	203.8	204.9
47.5°	756.3	764.0	767.9	732.7	218.1	201.6	199.4	201.6	199.4	202.1	200.5
50°	723.9	733.3	521.8	197.2	195.5	194.4	196.6	195.5	197.2	199.4	195.0
52.5°	691.0	427.9	191.1	190.0	191.1	190.0	193.9	191.1	191.7	189.5	184.0
55°	234.0	185.1	183.5	182.9	186.2	186.2	186.2	181.8	179.1	173.6	169.7
57.5°	179.1	179.1	178.5	179.1	178.0	176.9	171.9	168.1	164.2	156.5	154.3
60°	169.7	169.7	169.7	169.7	164.8	162.6	154.9	151.6	145.0	141.2	139.0
62.5°	162.0	160.9	156.0	154.3	148.9	142.8	138.4	135.1	128.5	126.3	124.7
65°	151.0	147.2	141.2	134.6	131.8	125.2	123.0	118.1	114.8	113.1	112.1
67.5°	132.9	127.4	122.5	118.1	113.1	111.0	108.2	104.4	102.2	101.1	100.0
70°	113.7	109.9	104.9	102.2	98.9	97.2	93.4	92.3	90.6	89.0	87.3
72.5°	95.0	92.8	90.6	86.8	85.7	84.6	80.7	78.5	76.3	74.2	73.1
75°	79.6	78.0	76.9	73.6	72.0	68.7	65.9	64.3	62.6	61.0	59.9
77.5°	65.4	64.3	61.0	58.8	57.7	54.9	53.8	54.4	53.3	51.1	50.0
80°	51.1	50.0	47.2	47.2	46.1	45.0	43.9	42.8	41.7	40.1	39.0
82.5°	39.0	37.9	36.8	35.7	34.6	34.1	33.5	32.4	31.3	30.2	29.7
85°	27.5	26.9	26.4	25.8	25.3	24.7	24.2	23.1	22.0	21.4	20.9
87.5°	18.7	18.1	17.6	17.0	16.5	15.9	15.4	14.8	13.7	13.2	12.6
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1295.7	1298.5	1295.7	1289.7	1285.8	1284.2	1287.5	1287.5	1289.7	1292.4	1293.0
5°	1275.4	1268.8	1261.1	1253.4	1249.6	1247.4	1241.3	1242.4	1244.1	1245.2	1246.3
7.5°	1224.9	1216.1	1205.6	1195.8	1191.9	1188.6	1181.5	1181.5	1181.5	1182.0	1185.3
10°	1173.2	1169.4	1165.0	1158.4	1153.5	1151.8	1145.8	1147.4	1146.3	1148.0	1151.8
12.5°	1149.1	1144.7	1140.8	1134.2	1128.7	1126.5	1123.8	1125.4	1124.9	1127.6	1130.9
15°	1127.1	1124.9	1120.5	1115.6	1110.6	1106.2	1096.3	1093.0	1090.8	1088.1	1091.9
17.5°	1090.8	1075.5	1065.0	1057.3	1051.8	1048.0	1045.3	1045.3	1046.9	1048.5	1051.8
20°	1041.4	1037.0	1032.1	1023.8	1018.3	1016.1	1014.5	1014.5	1017.2	1019.4	1025.5
22.5°	1007.4	1006.8	1005.2	1001.3	998.6	998.6	999.1	1000.2	1004.1	1007.4	1013.4
25°	991.4	993.6	992.5	990.3	988.7	989.2	988.1	989.2	993.1	996.4	1001.3
27.5°	978.8	982.1	981.0	977.7	974.9	976.0	977.7	976.6	979.9	983.7	987.6
30°	961.8	962.3	964.5	960.7	959.6	961.2	961.8	962.9	966.2	968.9	972.2
32.5°	942.5	946.9	946.4	942.5	942.5	944.2	944.7	907.9	839.3	722.8	691.0
35°	923.9	928.8	920.6	776.1	537.2	286.7	221.4	213.7	215.3	216.4	217.5
37.5°	683.3	324.1	206.5	208.2	209.8	211.5	213.1	214.8	216.4	218.1	218.6
40°	205.4	204.9	206.5	208.7	210.4	211.5	213.7	215.3	217.0	218.6	219.2
42.5°	203.2	204.3	206.0	208.2	210.4	212.6	214.2	216.4	217.5	218.6	219.2
45°	202.1	204.3	206.5	208.2	209.8	210.9	212.0	212.6	212.0	212.0	213.1
47.5°	200.5	202.7	203.2	202.7	203.2	202.7	202.7	202.7	201.0	200.5	200.5
50°	194.4	194.4	193.3	191.1	190.6	190.0	188.9	188.4	186.2	185.7	185.7
52.5°	181.8	181.3	179.6	176.9	175.8	174.7	174.1	173.6	171.4	170.3	170.8
55°	167.0	165.9	164.2	160.9	160.4	159.3	158.7	158.2	156.0	157.1	155.4
57.5°	153.2	151.0	148.9	148.3	146.1	145.6	145.0	144.5	142.8	143.4	142.3
60°	136.8	136.2	135.1	132.9	132.9	132.4	132.4	131.3	130.2	129.6	129.6
62.5°	124.7	123.0	121.9	121.9	120.3	120.3	120.3	119.2	118.1	118.6	118.1
65°	111.5	111.0	110.4	109.3	109.3	108.8	108.8	107.7	106.0	106.6	105.5
67.5°	100.5	99.4	98.3	97.8	95.6	94.5	93.9	93.4	91.2	91.7	90.6
70°	86.8	85.1	84.0	82.9	81.3	80.2	80.2	79.1	77.4	78.0	76.9
72.5°	72.5	71.4	70.3	69.8	68.1	67.6	67.0	66.5	64.8	65.4	64.8
75°	60.4	60.4	59.9	59.3	57.7	56.0	54.9	54.4	53.3	53.8	52.7
77.5°	50.0	48.9	47.8	47.8	46.1	45.0	43.9	43.9	43.9	43.4	42.8
80°	39.0	37.9	37.9	37.4	36.3	35.2	34.6	34.6	34.1	34.1	33.5
82.5°	29.7	28.6	28.0	28.0	26.9	26.4	25.8	25.3	25.3	25.3	24.7
85°	20.9	19.8	19.2	19.2	18.1	17.6	17.6	17.0	17.0	16.5	16.5
87.5°	12.6	12.1	11.5	11.5	10.4	9.9	9.9	9.9	9.3	9.3	8.8
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1293.0	1293.0	1289.1	1290.2	1288.6	1290.8	1288.0	1288.0	1291.3	1291.3	1293.5
5°	1246.8	1244.1	1243.5	1242.4	1236.9	1239.1	1236.4	1233.7	1237.5	1237.5	1242.4
7.5°	1183.7	1178.7	1180.9	1177.6	1174.3	1169.4	1171.0	1168.8	1171.6	1175.4	1180.4
10°	1151.3	1146.9	1149.6	1146.3	1148.0	1140.8	1141.4	1141.9	1144.7	1145.8	1150.2
12.5°	1130.4	1129.3	1128.2	1127.1	1128.2	1124.3	1122.2	1122.7	1123.8	1124.3	1127.6
15°	1086.4	1079.3	1081.5	1073.8	1074.4	1074.9	1070.5	1074.9	1074.4	1081.5	1088.1
17.5°	1050.7	1050.7	1046.9	1043.6	1041.4	1040.9	1037.6	1039.8	1037.6	1042.0	1043.6
20°	1026.0	1025.5	1024.9	1023.3	1017.8	1018.3	1020.0	1015.0	1014.5	1013.9	1017.2
22.5°	1014.5	1015.0	1012.8	1012.8	1007.9	1009.0	1009.6	1004.1	1004.6	1003.0	1004.6
25°	1002.4	1003.5	1000.8	1000.8	999.7	999.1	996.4	997.5	994.2	991.4	994.2
27.5°	988.1	990.3	988.1	989.2	987.0	985.9	984.3	983.2	979.9	979.3	981.0
30°	974.9	976.0	975.5	972.7	972.2	968.9	970.6	967.3	964.0	964.5	965.6
32.5°	499.8	477.3	368.0	332.3	329.0	341.1	404.3	492.1	637.7	778.9	880.5
35°	218.1	218.1	218.1	217.5	217.5	217.0	216.4	215.9	215.3	214.8	214.2
37.5°	219.2	219.2	219.2	219.2	218.6	218.1	218.1	217.0	216.4	215.9	215.3
40°	219.7	220.3	220.3	220.3	219.7	219.7	219.2	218.1	217.5	216.4	215.3
42.5°	219.2	219.7	219.7	219.2	219.2	218.6	218.6	218.1	217.5	217.0	216.4
45°	212.0	212.6	211.5	211.5	210.9	210.9	210.9	210.9	210.9	211.5	211.5
47.5°	199.4	199.4	198.8	198.3	198.3	197.7	198.3	197.7	198.8	199.4	200.5
50°	184.6	184.6	183.5	182.9	182.9	182.9	182.9	183.5	184.0	185.1	186.2
52.5°	169.2	169.2	168.6	168.1	167.5	167.5	169.2	168.6	169.2	169.7	171.4
55°	154.3	154.9	153.8	153.8	153.2	153.2	153.2	153.8	154.3	154.9	156.5
57.5°	141.7	141.7	140.6	140.6	140.6	140.1	141.7	140.6	141.2	141.7	142.8
60°	129.1	128.5	128.5	128.0	128.0	128.0	129.1	128.5	128.5	129.1	130.2
62.5°	117.5	117.5	117.0	117.0	116.4	116.4	117.5	117.0	117.0	117.5	118.1
65°	104.4	104.4	103.8	103.3	104.9	103.3	104.9	103.8	104.9	105.5	106.6
67.5°	89.5	89.5	89.5	89.0	89.0	90.1	90.6	89.5	90.1	91.2	91.7
70°	76.3	76.3	75.8	75.8	75.8	76.9	77.4	76.3	76.9	77.4	78.5
72.5°	64.8	63.7	63.7	63.2	64.3	64.3	64.8	64.3	64.8	64.8	65.9
75°	53.3	52.2	52.2	52.2	53.3	52.7	53.3	52.7	53.3	53.3	53.8
77.5°	42.8	42.3	41.7	41.7	42.8	42.8	42.8	42.3	42.8	43.4	43.9
80°	33.5	33.0	32.4	32.4	33.5	33.5	33.5	34.1	33.5	34.1	34.6
82.5°	24.7	24.2	23.6	24.7	24.7	24.7	24.7	25.3	24.7	25.3	25.8
85°	16.5	15.9	15.4	16.5	16.5	16.5	16.5	17.0	16.5	17.0	17.6
87.5°	8.8	8.2	8.2	8.8	8.8	8.8	9.3	9.3	9.3	9.9	9.9
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1296.8	1298.5	1297.9	1294.6	1291.3	1287.5	1284.7	1285.3	1290.8	1292.4	1287.5
5°	1242.4	1252.9	1252.9	1260.0	1256.2	1252.9	1255.1	1267.2	1273.2	1282.5	1285.8
7.5°	1186.4	1191.4	1190.8	1197.9	1196.9	1196.9	1198.5	1214.4	1222.1	1229.8	1232.0
10°	1155.1	1160.0	1159.5	1160.0	1158.4	1154.6	1154.6	1161.7	1168.3	1172.1	1173.2
12.5°	1132.6	1135.3	1134.8	1134.8	1133.7	1130.4	1129.8	1135.9	1143.0	1148.0	1148.5
15°	1099.1	1106.8	1108.4	1115.6	1113.9	1109.5	1110.6	1115.6	1120.0	1124.3	1122.7
17.5°	1049.1	1052.9	1053.5	1056.2	1055.1	1055.1	1061.7	1079.9	1091.9	1102.4	1103.5
20°	1020.5	1023.3	1022.2	1028.2	1025.5	1024.9	1026.6	1034.3	1039.8	1044.7	1053.5
22.5°	1006.8	1009.0	1007.4	1007.9	1003.0	998.6	997.5	1003.5	1009.6	1016.1	1016.1
25°	995.3	996.9	996.4	995.3	991.4	985.4	984.3	985.4	987.6	988.1	984.3
27.5°	981.5	982.6	982.6	983.2	978.2	972.7	971.7	970.6	972.7	972.2	966.2
30°	967.3	965.6	966.2	966.7	962.3	957.4	955.2	954.6	956.8	956.3	950.2
32.5°	933.2	945.8	946.9	948.0	944.2	939.8	937.6	935.9	937.0	936.5	931.0
35°	213.7	217.5	266.4	603.1	819.0	906.8	916.2	914.0	914.5	914.5	910.1
37.5°	214.2	213.7	213.1	211.5	209.8	208.7	360.9	769.5	891.5	892.0	888.2
40°	214.2	213.7	213.1	212.0	209.8	208.2	205.4	203.2	208.2	458.1	838.2
42.5°	215.3	214.2	213.1	212.0	209.8	207.6	205.4	202.7	204.3	203.2	200.5
45°	212.0	211.5	211.5	210.9	209.8	207.6	204.9	201.6	199.9	201.6	198.8
47.5°	201.6	202.1	203.8	204.3	204.3	204.9	203.2	201.0	198.3	199.9	196.6
50°	187.3	188.4	188.9	191.7	192.8	195.0	195.5	195.5	195.0	197.2	195.0
52.5°	171.9	173.0	175.8	176.9	178.0	181.3	182.4	184.0	185.1	188.4	190.6
55°	157.1	157.6	158.7	160.9	162.6	165.3	167.0	168.6	171.4	173.0	179.6
57.5°	143.4	143.9	146.1	146.7	147.8	149.9	151.6	153.8	156.0	157.1	164.8
60°	130.2	130.7	132.4	132.9	133.5	135.7	137.3	139.0	140.6	141.7	147.2
62.5°	118.6	118.6	120.3	120.3	120.8	122.5	123.6	124.7	126.3	126.9	129.6
65°	107.1	107.7	108.8	108.8	109.3	110.4	111.0	111.5	113.1	113.1	115.3
67.5°	92.8	93.4	95.0	96.1	96.7	98.9	99.4	100.0	101.1	101.6	102.7
70°	79.1	79.6	81.3	81.8	82.4	84.0	85.1	86.8	88.4	90.1	91.2
72.5°	66.5	67.0	68.7	68.7	70.3	70.9	72.0	72.5	74.2	75.2	76.9
75°	54.4	54.9	56.6	56.6	58.2	58.8	59.3	59.9	61.0	62.1	63.2
77.5°	44.5	44.5	46.7	47.8	48.9	48.9	49.4	49.4	49.4	50.0	51.1
80°	35.2	35.2	36.8	37.9	39.0	39.0	39.5	40.1	40.6	40.6	41.2
82.5°	26.4	26.4	28.0	28.6	29.7	29.7	29.7	30.2	30.8	30.2	31.3
85°	18.1	18.1	19.2	19.8	20.9	20.9	20.9	21.4	22.0	21.4	22.0
87.5°	10.4	11.0	11.5	12.1	12.6	13.2	13.2	13.2	13.7	13.7	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1282.0	1275.4	1274.8	1267.2	1265.0	1265.5	1259.5	1257.3	1247.4	1245.2	1234.7
5°	1286.9	1290.2	1288.6	1288.0	1289.7	1288.6	1284.2	1282.0	1280.3	1275.9	1267.2
7.5°	1232.6	1234.7	1236.4	1243.5	1249.6	1260.0	1271.0	1278.1	1283.6	1284.7	1277.6
10°	1177.1	1187.5	1194.7	1205.6	1214.4	1220.5	1227.1	1233.1	1249.0	1265.0	1274.3
12.5°	1148.5	1151.3	1150.7	1156.8	1162.8	1178.7	1194.1	1202.9	1215.0	1222.1	1239.1
15°	1124.3	1124.9	1126.5	1130.9	1134.2	1139.7	1146.9	1160.0	1184.2	1195.2	1204.5
17.5°	1102.4	1102.4	1103.5	1107.3	1111.7	1116.7	1121.1	1126.5	1138.6	1156.8	1179.8
20°	1067.2	1082.6	1084.3	1083.7	1085.9	1095.2	1096.3	1106.2	1112.3	1119.4	1141.9
22.5°	1015.0	1024.4	1037.6	1057.9	1065.6	1070.0	1073.3	1077.7	1087.0	1095.2	1104.6
25°	986.5	992.5	996.4	1002.4	1018.3	1044.2	1049.1	1054.0	1060.1	1066.1	1077.7
27.5°	961.2	960.7	963.4	968.9	973.3	987.0	1011.2	1030.4	1031.5	1040.3	1050.2
30°	943.1	939.8	935.9	934.9	940.9	948.0	955.2	985.4	1006.3	1010.6	1021.1
32.5°	926.1	920.6	915.1	910.7	906.8	912.9	917.3	930.5	957.4	982.6	988.1
35°	905.2	899.7	893.1	888.2	882.1	881.6	881.0	893.7	902.4	932.7	959.0
37.5°	883.8	877.7	872.2	866.7	860.7	856.3	853.6	856.9	865.1	878.3	922.2
40°	861.2	854.1	848.6	844.2	836.0	832.7	827.2	825.0	825.5	837.1	860.2
42.5°	514.7	820.6	823.3	818.4	811.3	806.9	800.8	798.1	792.6	798.1	811.3
45°	198.3	200.5	600.3	793.1	784.4	778.9	773.4	770.6	764.6	760.2	772.3
47.5°	194.4	196.6	192.2	272.4	748.6	750.3	743.7	741.0	734.9	731.6	728.3
50°	191.7	193.3	190.0	191.1	187.3	686.0	713.5	710.2	703.6	699.8	693.2
52.5°	188.9	188.9	186.8	184.0	182.9	183.5	577.3	678.9	671.2	667.4	658.6
55°	180.2	181.3	183.5	179.1	178.0	177.4	175.8	549.8	635.5	631.1	623.4
57.5°	167.0	169.2	175.2	174.1	174.1	169.7	168.6	168.6	510.3	594.3	586.6
60°	151.6	153.8	160.4	162.6	164.2	163.1	162.0	161.5	159.3	537.7	547.6
62.5°	135.7	137.9	140.1	147.2	149.4	152.1	155.4	153.8	151.6	151.6	506.4
65°	118.6	121.9	123.0	129.6	132.4	137.3	140.1	143.9	142.8	142.3	145.0
67.5°	103.8	107.7	108.2	111.0	115.9	118.1	121.4	128.5	131.8	132.9	134.0
70°	91.2	93.4	95.0	96.1	99.4	100.0	106.0	111.0	115.9	121.4	123.0
72.5°	78.5	80.2	83.5	82.4	83.5	85.7	89.0	92.3	97.2	104.9	109.9
75°	64.3	65.4	67.6	68.7	70.9	72.5	74.7	77.4	81.8	85.7	92.3
77.5°	51.6	52.2	53.8	54.4	56.6	58.2	62.1	63.7	66.5	69.2	73.1
80°	41.7	41.7	42.3	42.3	43.9	45.6	48.3	50.0	53.3	55.5	55.5
82.5°	31.9	31.9	33.5	33.5	34.6	34.6	36.3	36.3	37.9	39.0	40.1
85°	22.5	23.1	24.2	23.6	24.7	24.2	25.3	26.4	26.9	26.4	25.8
87.5°	14.8	14.8	15.9	15.4	15.9	15.9	17.0	17.0	17.6	17.6	17.0
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1230.9	1222.7	1217.7	1211.7	1210.0	1208.4	1210.6	1210.6	1207.3	1204.5	1199.6
5°	1259.5	1250.7	1241.3	1231.5	1222.1	1212.2	1208.4	1207.8	1201.8	1198.5	1196.9
7.5°	1274.3	1269.9	1259.5	1245.7	1231.5	1213.9	1206.2	1201.8	1195.8	1194.7	1194.7
10°	1275.9	1271.0	1265.5	1255.6	1239.1	1216.1	1201.2	1192.5	1187.0	1190.8	1197.9
12.5°	1260.0	1269.4	1264.4	1257.8	1244.6	1216.6	1195.2	1182.0	1180.4	1190.3	1208.9
15°	1219.4	1246.8	1260.6	1254.0	1243.5	1215.5	1185.3	1169.9	1169.9	1190.3	1214.4
17.5°	1188.6	1210.0	1243.5	1249.0	1236.9	1213.3	1176.0	1157.9	1162.8	1192.5	1218.3
20°	1163.3	1176.5	1208.9	1239.7	1228.2	1208.4	1162.2	1143.6	1153.5	1189.2	1223.8
22.5°	1123.8	1150.2	1169.9	1215.5	1219.4	1199.0	1148.5	1126.0	1145.8	1189.2	1221.0
25°	1085.3	1117.2	1138.1	1182.6	1206.2	1187.5	1135.9	1107.3	1137.5	1187.5	1218.8
27.5°	1058.4	1073.3	1111.2	1143.0	1186.4	1172.1	1118.9	1087.0	1127.1	1178.7	1206.2
30°	1029.9	1039.8	1077.1	1107.3	1160.0	1154.6	1101.3	1064.5	1113.9	1170.5	1173.2
32.5°	998.6	1009.6	1028.8	1072.7	1123.2	1138.1	1081.5	1042.0	1099.6	1157.9	1134.8
35°	966.7	974.9	990.3	1037.6	1080.4	1113.4	1057.3	1016.1	1089.7	1138.6	1098.0
37.5°	934.9	943.6	956.8	996.4	1035.4	1090.3	1036.5	990.3	1071.6	1104.6	1059.5
40°	904.6	909.6	923.3	948.0	998.0	1066.7	1012.8	963.4	1052.9	1061.2	1007.4
42.5°	849.2	873.9	886.5	906.3	955.7	1034.3	985.4	934.9	1032.1	1017.8	955.2
45°	789.3	843.1	848.6	868.4	918.4	999.7	959.6	906.8	1012.3	980.4	905.7
47.5°	740.4	779.4	811.3	827.7	873.9	959.0	935.4	883.2	982.6	933.2	857.4
50°	697.0	717.9	775.6	787.6	820.6	910.1	906.8	855.8	941.4	873.9	810.2
52.5°	654.7	669.6	721.7	747.6	774.5	857.4	872.8	828.8	896.4	814.6	762.4
55°	617.9	622.9	651.4	705.8	730.0	804.1	835.4	797.5	839.3	758.0	716.2
57.5°	580.0	575.6	596.5	666.3	683.8	749.7	795.9	765.7	793.1	700.3	668.5
60°	540.5	534.4	543.2	589.4	635.0	695.9	749.2	730.5	737.1	643.2	615.2
62.5°	499.3	493.2	490.5	519.6	587.2	640.4	702.0	691.5	668.5	591.0	549.3
65°	456.4	450.4	446.0	457.5	534.4	568.5	649.2	646.5	593.2	536.1	462.5
67.5°	139.0	409.8	400.4	399.9	450.4	503.1	592.1	587.7	517.4	477.3	398.2
70°	125.2	332.3	353.2	348.2	370.2	436.7	526.7	523.5	443.8	382.8	352.1
72.5°	114.8	117.5	312.0	306.5	311.4	371.3	458.6	449.8	376.2	302.1	304.3
75°	98.3	103.3	107.7	258.7	252.1	307.6	384.5	370.8	310.3	249.4	254.3
77.5°	80.2	86.2	89.5	188.4	203.8	219.2	307.0	288.9	213.7	199.4	95.0
80°	59.9	64.8	70.3	75.2	154.9	153.2	227.9	209.8	148.9	124.1	74.2
82.5°	43.9	45.6	48.9	54.4	61.5	102.7	146.7	129.1	103.3	56.6	51.1
85°	27.5	29.7	31.3	33.0	37.4	61.5	72.5	57.7	43.4	34.6	32.4
87.5°	17.6	17.6	17.0	17.6	18.1	22.0	24.7	23.6	18.7	17.6	17.6
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1194.1	1186.4	1186.4	1184.2	1185.9	1185.9	1185.3	1185.9	1189.7	1191.9	1195.8
5°	1193.6	1191.4	1196.3	1202.3	1209.5	1218.3	1220.5	1228.2	1235.3	1244.6	1254.5
7.5°	1200.7	1208.4	1217.7	1227.6	1241.9	1252.3	1261.7	1271.0	1277.6	1286.4	1291.9
10°	1211.1	1226.5	1242.4	1255.1	1270.5	1279.2	1285.3	1286.4	1277.0	1262.2	1250.1
12.5°	1226.0	1244.1	1258.9	1271.0	1278.1	1274.8	1257.3	1239.1	1228.7	1213.3	1191.9
15°	1238.6	1255.1	1270.5	1265.5	1246.3	1228.2	1214.4	1193.0	1172.1	1157.9	1148.5
17.5°	1244.1	1260.0	1254.5	1228.7	1210.6	1189.7	1161.7	1145.2	1131.5	1120.5	1115.0
20°	1247.4	1244.6	1215.0	1196.3	1161.1	1141.9	1123.8	1108.4	1098.0	1092.5	1091.4
22.5°	1238.6	1205.1	1179.8	1146.3	1120.5	1104.6	1090.3	1077.7	1070.5	1066.1	1063.4
25°	1209.5	1170.5	1133.1	1106.8	1084.8	1071.1	1060.1	1049.6	1040.9	1038.7	1033.2
27.5°	1168.8	1137.0	1087.5	1067.2	1048.0	1041.4	1029.3	1018.9	1011.2	1004.6	987.0
30°	1135.3	1084.8	1049.1	1030.4	1018.9	1011.2	997.5	986.5	973.3	949.1	939.2
32.5°	1094.1	1044.2	1010.1	999.7	985.4	978.8	963.4	939.2	918.9	909.0	908.5
35°	1040.9	999.7	974.9	965.6	954.1	943.1	911.2	889.3	879.4	880.5	888.7
37.5°	996.4	959.6	943.6	930.5	917.3	889.3	862.3	851.9	854.7	860.2	864.0
40°	951.3	923.3	905.2	894.8	865.1	837.6	823.3	827.2	832.1	836.0	840.9
42.5°	907.4	887.6	869.5	849.2	808.5	793.7	797.0	801.9	806.3	811.8	816.8
45°	865.6	848.1	827.2	781.1	760.7	764.6	769.5	773.4	780.0	783.8	788.7
47.5°	826.1	807.4	770.6	730.0	727.8	735.5	739.9	744.8	749.7	739.9	408.1
50°	781.6	762.4	706.4	691.0	695.9	703.1	708.6	713.5	635.5	252.7	194.4
52.5°	737.7	688.8	653.1	657.5	662.4	670.7	674.5	500.9	199.4	190.0	190.6
55°	688.8	626.2	615.7	621.2	625.6	633.9	420.2	184.0	182.9	182.4	186.8
57.5°	611.9	574.0	578.4	583.9	588.3	415.2	179.1	178.0	178.5	179.1	179.6
60°	543.2	535.0	539.9	544.9	385.6	173.0	169.7	170.3	172.5	170.8	166.4
62.5°	488.8	495.4	500.4	438.3	164.2	162.6	164.2	162.6	158.7	156.0	150.5
65°	447.1	453.7	457.5	154.3	153.8	156.0	154.3	148.9	142.8	135.1	133.5
67.5°	403.2	409.8	146.7	142.8	145.0	142.3	135.7	129.1	124.7	118.1	115.3
70°	357.6	153.2	132.9	132.4	128.5	124.1	117.0	110.4	104.9	102.2	99.4
72.5°	258.2	121.4	119.7	115.3	108.8	102.7	96.7	92.8	90.1	88.4	86.8
75°	107.7	105.5	100.5	92.8	86.2	83.5	79.1	76.3	75.2	72.0	70.9
77.5°	90.1	85.7	78.5	73.1	69.2	67.6	64.3	61.0	59.3	58.8	56.6
80°	69.2	63.2	59.9	57.1	56.0	52.2	48.3	46.7	45.6	45.0	43.4
82.5°	47.2	45.0	42.8	39.0	39.0	37.4	35.7	34.6	33.5	33.5	32.4
85°	30.8	29.1	28.6	26.9	26.9	25.8	25.3	24.7	24.2	23.6	23.1
87.5°	17.6	17.6	18.1	17.6	17.6	17.0	16.5	15.9	15.4	15.4	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1200.7	1206.2	1207.3	1226.0	1236.4	1235.8	1232.6	1242.4	1236.4	1233.1	1236.4
5°	1264.4	1271.0	1276.5	1296.8	1304.0	1307.3	1306.7	1312.2	1307.8	1304.0	1304.0
7.5°	1295.7	1297.9	1300.1	1295.2	1291.9	1286.4	1278.1	1266.1	1260.0	1253.4	1245.2
10°	1244.1	1236.9	1239.7	1229.8	1221.6	1215.5	1207.8	1197.9	1189.7	1183.7	1174.3
12.5°	1180.9	1180.4	1181.5	1183.1	1174.9	1169.9	1163.9	1156.8	1150.7	1144.1	1136.4
15°	1142.5	1143.0	1147.4	1145.8	1143.0	1140.3	1133.7	1131.5	1126.0	1118.9	1114.5
17.5°	1115.0	1117.8	1122.2	1120.0	1115.6	1112.8	1107.9	1102.9	1098.0	1092.5	1085.9
20°	1090.8	1093.6	1096.3	1093.6	1085.3	1081.5	1074.9	1059.5	1048.5	1037.6	1027.7
22.5°	1064.5	1066.1	1063.9	1055.1	1034.3	1024.4	1016.7	1012.3	1003.0	996.9	990.9
25°	1031.5	1022.2	1007.9	998.0	989.8	985.4	982.1	981.5	980.4	979.3	976.6
27.5°	977.7	974.4	966.7	962.9	963.4	965.1	965.6	967.3	965.6	963.4	961.2
30°	937.6	939.2	939.8	940.9	943.6	945.3	945.8	948.0	946.9	945.3	944.2
32.5°	912.3	916.2	918.4	921.7	923.3	926.1	926.1	929.4	926.1	925.5	924.4
35°	891.5	894.8	895.9	900.8	902.4	905.2	905.2	907.9	905.2	877.2	692.6
37.5°	870.6	873.9	876.1	880.5	881.0	882.7	814.6	596.0	384.5	297.7	227.4
40°	845.9	849.7	851.9	853.6	599.8	380.6	262.0	213.1	213.1	214.8	216.4
42.5°	819.5	822.3	572.9	333.4	207.6	207.1	208.7	210.4	212.0	214.2	216.4
45°	644.3	325.2	206.5	201.6	203.2	205.4	207.6	209.8	212.6	214.8	215.9
47.5°	211.5	198.3	201.0	198.8	201.6	204.3	206.5	208.7	209.3	209.8	209.3
50°	195.5	195.5	197.2	197.2	199.4	200.5	200.5	200.5	198.3	197.7	196.1
52.5°	188.9	193.3	191.1	192.2	191.1	189.5	187.8	186.2	182.9	181.8	179.6
55°	185.7	187.3	181.8	180.2	178.0	173.6	171.4	169.2	166.4	165.3	162.6
57.5°	178.0	174.1	168.1	165.3	161.5	157.1	154.9	153.2	150.5	149.4	147.8
60°	163.7	156.0	152.1	148.9	144.5	140.6	139.0	137.9	135.7	135.1	133.5
62.5°	146.1	139.5	136.2	131.8	128.5	126.3	124.7	124.1	121.9	121.9	120.8
65°	126.9	123.6	120.8	116.4	114.8	112.6	112.1	111.5	110.4	109.9	108.8
67.5°	111.5	109.3	105.5	103.3	102.2	100.5	99.4	98.3	96.1	95.0	93.4
70°	97.8	96.1	92.3	90.6	88.4	85.7	84.0	82.9	81.3	80.2	78.5
72.5°	84.6	79.6	76.9	75.2	73.6	70.9	70.3	69.2	67.6	67.0	65.4
75°	68.1	64.3	62.6	61.5	59.9	58.2	58.2	58.2	56.6	56.0	55.5
77.5°	54.4	52.2	51.1	50.0	49.4	48.3	46.7	46.1	44.5	44.5	43.9
80°	41.7	40.6	39.5	39.0	38.4	37.4	36.3	35.7	34.1	34.1	33.5
82.5°	30.8	30.2	29.7	29.1	28.6	28.0	26.4	25.8	24.7	24.7	24.2
85°	22.0	21.4	20.3	19.8	19.8	19.2	17.6	17.0	15.9	15.9	15.9
87.5°	13.7	13.2	12.6	12.1	11.5	11.0	9.9	9.3	9.3	8.2	7.7
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1229.8	1239.1	1238.0	1244.6	1246.3	1249.6	1250.7	1251.2	1243.0	1249.6	1250.1
5°	1302.3	1304.0	1305.1	1307.8	1310.5	1311.1	1308.4	1305.1	1306.2	1304.0	1298.5
7.5°	1244.1	1235.8	1234.2	1232.0	1230.9	1229.8	1224.9	1229.3	1224.3	1222.1	1214.4
10°	1172.7	1165.0	1164.4	1164.4	1166.1	1165.5	1164.4	1162.2	1166.6	1163.9	1162.2
12.5°	1135.3	1132.6	1134.2	1133.1	1137.5	1138.6	1137.5	1137.5	1136.4	1134.2	1135.3
15°	1112.8	1110.6	1112.3	1110.6	1113.9	1114.5	1111.7	1113.4	1110.6	1107.9	1106.8
17.5°	1083.2	1078.2	1074.4	1068.9	1069.4	1068.3	1065.0	1065.0	1062.3	1055.1	1055.7
20°	1026.0	1021.1	1018.9	1018.9	1021.6	1022.7	1022.2	1023.3	1020.5	1019.4	1015.0
22.5°	990.3	989.8	990.9	993.6	998.0	1004.1	1004.6	1004.6	1004.6	1004.1	998.6
25°	977.7	977.7	978.8	982.6	985.9	990.3	991.4	992.5	991.4	991.4	986.5
27.5°	963.4	962.3	964.5	968.4	972.2	975.5	978.2	978.8	977.1	977.1	978.8
30°	945.8	945.3	948.0	951.9	955.2	958.5	961.2	963.4	961.2	961.2	959.6
32.5°	927.7	927.7	928.8	905.7	839.8	756.3	758.0	709.7	676.1	633.9	689.9
35°	578.9	421.3	362.0	306.5	267.5	242.2	241.7	233.4	229.6	226.8	226.3
37.5°	218.6	219.7	221.9	223.0	224.6	225.7	226.3	226.3	226.3	226.3	225.7
40°	218.1	220.3	221.9	223.6	225.2	226.3	226.3	226.8	227.4	227.4	227.4
42.5°	218.6	220.8	223.0	224.6	225.7	226.3	226.8	227.4	227.4	227.4	227.4
45°	218.1	219.2	219.2	219.7	219.7	219.7	220.3	220.3	219.7	219.2	220.3
47.5°	209.8	209.8	208.2	207.6	207.1	206.0	206.5	206.0	205.4	204.9	206.0
50°	195.5	193.3	192.2	191.1	190.6	189.5	190.0	189.5	188.9	187.8	189.5
52.5°	178.5	178.0	175.8	174.7	174.1	174.7	173.6	173.0	172.5	171.9	172.5
55°	162.0	159.8	159.3	158.2	157.6	158.2	157.6	157.1	156.5	156.0	156.5
57.5°	147.2	145.6	145.0	143.9	143.9	143.9	143.9	143.4	142.8	142.3	142.8
60°	132.9	131.8	131.3	131.3	130.7	130.7	130.7	130.2	129.6	129.6	130.2
62.5°	120.8	120.8	119.2	118.6	118.6	119.2	118.6	118.1	117.5	117.0	118.1
65°	108.2	106.0	105.5	104.4	103.3	103.8	103.3	102.7	102.2	101.6	102.7
67.5°	92.8	92.3	90.1	89.0	88.4	89.0	88.4	87.9	87.3	86.8	87.9
70°	78.0	78.0	75.8	75.2	74.7	74.7	74.2	74.2	73.6	73.1	74.2
72.5°	64.8	64.8	64.3	63.2	62.6	62.1	61.5	61.0	61.0	61.5	61.5
75°	53.8	52.7	50.5	51.1	50.5	50.0	50.0	49.4	48.9	50.0	49.4
77.5°	42.3	41.7	40.1	40.6	40.1	39.5	39.5	39.0	38.4	39.0	39.0
80°	31.9	31.9	31.3	30.8	30.8	30.2	29.7	29.7	29.1	29.7	29.7
82.5°	23.1	23.1	22.5	22.0	21.4	21.4	20.9	20.9	20.9	20.9	20.9
85°	14.8	14.3	14.3	13.2	13.2	13.2	12.6	12.6	12.6	12.6	12.6
87.5°	7.1	7.1	6.6	6.6	6.0	5.5	5.5	4.9	4.9	5.5	5.5
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1240.2	1247.4	1241.3	1244.1	1244.6	1254.0	1253.4	1255.6	1251.8	1247.4	1241.3
5°	1303.4	1300.1	1295.7	1306.2	1300.7	1307.3	1309.4	1313.8	1313.8	1313.3	1308.4
7.5°	1222.7	1215.5	1221.0	1224.9	1226.5	1222.1	1230.9	1240.8	1249.0	1254.0	1254.5
10°	1159.5	1161.7	1161.1	1162.8	1166.6	1166.1	1171.6	1177.1	1179.3	1182.6	1183.7
12.5°	1129.8	1129.3	1130.4	1134.2	1136.4	1135.9	1141.4	1144.7	1145.8	1146.3	1145.8
15°	1106.2	1102.4	1105.1	1105.7	1107.3	1107.3	1113.9	1118.9	1121.1	1122.2	1121.1
17.5°	1061.7	1052.4	1061.2	1061.2	1067.2	1066.1	1076.6	1084.8	1089.2	1092.5	1092.5
20°	1017.8	1013.4	1016.7	1015.6	1020.0	1019.4	1026.0	1031.5	1035.4	1038.1	1041.4
22.5°	1000.2	1001.3	996.4	996.9	996.9	996.4	999.7	1002.4	1003.5	1005.2	1004.1
25°	988.7	989.8	988.1	985.4	984.3	985.4	987.0	990.3	990.9	989.8	985.9
27.5°	977.1	973.8	976.6	971.7	970.6	972.7	974.9	975.5	976.0	976.0	972.7
30°	959.6	956.8	959.6	957.4	955.2	957.4	959.0	959.0	960.1	960.7	956.8
32.5°	670.7	676.1	765.1	819.0	894.8	933.2	940.3	940.3	941.4	941.4	938.1
35°	228.5	229.0	247.7	268.6	313.1	368.0	440.0	477.3	603.6	754.7	900.8
37.5°	225.7	225.2	224.6	224.1	223.6	223.0	221.9	221.4	224.6	266.4	361.4
40°	226.8	226.3	225.2	224.6	224.1	223.0	222.5	221.4	220.3	219.2	218.1
42.5°	226.8	226.3	225.7	225.2	224.6	224.1	223.0	221.9	220.8	219.2	217.5
45°	219.2	219.2	219.7	219.7	220.3	220.3	220.3	219.7	219.7	219.2	217.0
47.5°	204.9	204.9	206.5	206.5	207.6	208.7	208.7	209.8	211.5	212.6	213.1
50°	188.4	188.4	190.0	190.6	191.7	193.3	195.0	195.5	197.2	199.4	201.6
52.5°	171.9	171.9	173.6	173.6	174.7	176.3	178.0	178.5	180.7	182.9	185.7
55°	156.5	156.5	157.6	158.2	158.7	159.8	161.5	161.5	163.7	165.3	168.1
57.5°	142.8	143.9	143.9	143.9	144.5	145.6	146.7	146.7	148.3	149.9	152.1
60°	129.6	130.7	130.7	130.7	131.3	131.8	132.9	132.9	134.0	135.1	137.3
62.5°	117.5	118.6	118.6	119.2	119.2	119.7	120.8	120.3	121.4	121.9	123.6
65°	102.2	103.3	103.8	104.4	104.9	106.0	107.7	107.1	108.8	109.9	111.5
67.5°	87.3	88.4	88.4	89.0	89.5	90.6	91.7	91.7	93.4	94.5	96.7
70°	73.6	74.7	74.7	75.2	75.8	76.9	78.0	77.4	79.1	80.2	81.8
72.5°	61.0	62.1	62.1	62.6	62.6	63.7	64.8	65.9	65.9	67.0	68.1
75°	49.4	50.0	50.5	50.5	51.1	51.6	52.7	53.8	54.4	54.9	56.0
77.5°	39.0	39.5	40.1	40.1	40.6	41.2	41.7	43.9	45.0	45.6	45.6
80°	29.7	30.2	30.2	30.2	30.8	31.3	32.4	32.4	34.6	34.6	35.2
82.5°	20.9	21.4	21.4	21.4	22.0	23.1	23.6	24.2	25.3	25.8	25.8
85°	12.6	13.2	13.2	13.2	13.7	14.3	15.4	15.9	16.5	16.5	17.0
87.5°	4.9	5.5	6.0	6.0	6.6	7.1	7.7	8.2	8.8	8.8	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1234.7	1238.6	1234.7	1236.9	1239.7	1234.7	1223.2	1218.8	1217.2	1210.6	1206.2
5°	1303.4	1303.4	1301.8	1306.2	1305.6	1297.9	1285.8	1280.3	1274.8	1267.7	1262.2
7.5°	1254.5	1258.9	1261.7	1278.7	1289.7	1290.8	1298.5	1300.1	1302.3	1300.1	1296.8
10°	1184.2	1182.6	1190.3	1206.2	1215.5	1220.5	1235.3	1242.4	1248.5	1260.6	1273.2
12.5°	1144.7	1146.9	1150.2	1161.7	1170.5	1168.3	1174.3	1179.3	1186.4	1198.5	1216.6
15°	1118.3	1120.5	1123.8	1132.6	1138.1	1135.3	1138.6	1141.9	1146.9	1152.9	1163.9
17.5°	1089.7	1093.6	1097.4	1106.8	1111.7	1111.2	1113.9	1115.0	1116.7	1120.5	1128.2
20°	1045.3	1057.3	1065.0	1077.7	1084.8	1083.7	1088.6	1090.3	1092.5	1096.3	1099.6
22.5°	1004.6	1007.9	1011.7	1025.5	1037.6	1052.4	1055.7	1060.1	1065.6	1069.4	1072.7
25°	981.5	979.3	981.0	990.3	996.9	998.0	1003.0	1017.2	1032.1	1038.7	1046.4
27.5°	967.8	965.6	965.1	969.5	970.6	967.8	966.7	971.1	982.1	993.1	1016.1
30°	953.0	950.2	948.0	951.9	953.5	949.7	942.5	938.7	945.3	948.0	957.4
32.5°	935.4	932.7	931.6	933.8	934.9	931.6	923.9	919.5	918.4	916.2	918.4
35°	915.6	912.9	911.2	911.8	914.0	911.2	904.6	899.1	896.4	890.4	886.0
37.5°	471.8	668.5	867.8	888.7	890.9	890.4	883.8	877.7	875.0	867.8	865.6
40°	215.9	241.1	362.0	472.9	682.2	866.7	860.7	854.7	849.7	847.5	839.3
42.5°	215.3	215.9	216.4	213.7	264.7	450.9	665.7	831.0	827.7	822.3	816.2
45°	215.3	212.6	214.8	211.5	212.6	212.0	264.2	426.2	758.5	792.6	789.8
47.5°	213.1	211.5	213.7	210.9	207.6	209.3	207.1	209.8	327.4	555.3	760.7
50°	203.2	204.3	208.2	207.6	204.9	207.1	203.2	206.5	203.8	223.6	430.6
52.5°	188.4	190.6	194.4	197.7	198.8	201.6	200.5	201.6	199.4	199.9	200.5
55°	170.8	173.6	176.9	181.8	184.0	188.4	191.7	193.3	196.1	195.5	191.1
57.5°	154.3	157.1	159.8	164.8	169.7	171.9	178.0	181.3	188.4	186.8	185.7
60°	139.0	141.2	143.9	145.0	151.0	154.9	160.4	163.7	173.0	175.2	178.5
62.5°	125.2	126.3	128.5	130.2	134.0	137.9	140.6	146.1	151.0	158.2	163.1
65°	112.6	113.7	115.3	116.4	117.0	122.5	124.1	130.2	131.8	139.5	143.9
67.5°	98.3	100.5	102.7	103.8	104.9	108.2	109.3	112.1	115.9	119.2	124.7
70°	83.5	85.1	87.3	89.0	91.2	93.4	96.7	98.3	101.1	103.3	107.7
72.5°	69.8	71.4	72.5	74.2	75.8	77.4	80.2	84.0	86.2	90.1	91.2
75°	56.6	58.2	59.3	60.4	62.1	63.2	64.3	68.1	70.3	73.6	76.9
77.5°	46.7	46.7	47.8	51.1	50.5	50.5	51.6	53.8	55.5	57.7	61.0
80°	36.3	36.8	37.4	40.1	40.6	41.2	40.6	42.3	43.9	44.5	46.7
82.5°	26.9	27.5	27.5	29.1	30.8	30.8	30.8	31.3	33.0	33.5	34.6
85°	18.1	18.7	19.2	19.8	20.9	21.4	22.0	22.0	23.1	23.6	24.2
87.5°	9.9	11.0	11.5	12.1	12.6	13.2	13.7	14.3	14.8	15.4	15.9
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1204.5	1201.8	1200.1	1195.8	1194.7	1187.5	1188.6	1187.5	1187.5	1189.2	1194.7
5°	1256.2	1243.0	1239.7	1230.4	1222.7	1209.5	1201.2	1196.9	1190.3	1187.5	1191.4
7.5°	1291.3	1281.4	1273.2	1265.0	1254.0	1238.6	1227.1	1213.9	1202.9	1192.5	1189.7
10°	1285.3	1296.3	1296.3	1291.3	1280.9	1265.5	1251.8	1235.3	1216.1	1199.6	1189.7
12.5°	1234.2	1253.4	1268.8	1280.3	1290.8	1280.3	1266.6	1253.4	1232.0	1207.8	1189.7
15°	1178.2	1197.9	1217.2	1241.3	1266.6	1277.0	1276.5	1261.1	1241.9	1216.6	1191.4
17.5°	1138.6	1152.4	1162.8	1189.2	1219.9	1246.8	1265.0	1266.1	1247.4	1224.9	1191.9
20°	1109.0	1118.9	1127.6	1142.5	1169.4	1202.3	1235.8	1254.5	1251.2	1226.5	1193.6
22.5°	1082.1	1089.2	1096.3	1107.3	1128.7	1150.2	1189.2	1227.6	1244.1	1223.8	1191.9
25°	1055.1	1062.8	1068.3	1076.0	1093.0	1110.6	1138.1	1185.9	1222.7	1221.6	1188.6
27.5°	1023.3	1033.7	1040.3	1050.7	1062.3	1075.5	1094.1	1139.2	1191.9	1210.6	1179.8
30°	984.8	1000.2	1010.1	1021.6	1031.5	1043.1	1057.9	1085.3	1150.7	1189.2	1170.5
32.5°	929.4	956.8	978.8	989.8	1000.8	1010.6	1023.8	1046.9	1100.2	1160.0	1160.0
35°	889.8	902.4	922.2	954.1	967.8	977.7	989.8	1007.9	1042.0	1125.4	1143.0
37.5°	859.1	864.0	873.9	905.2	931.0	946.9	959.0	970.6	1004.1	1078.2	1121.1
40°	836.0	834.3	833.2	848.1	884.9	910.1	923.9	935.4	961.2	1021.6	1091.9
42.5°	809.1	807.4	801.9	805.8	823.9	866.2	887.1	899.7	921.1	962.3	1060.1
45°	781.1	778.3	776.1	772.3	778.9	802.5	845.3	864.0	876.1	912.9	1020.0
47.5°	752.5	748.6	745.9	742.6	738.8	749.7	790.4	823.9	844.8	867.8	971.7
50°	711.8	716.8	713.5	709.7	706.4	704.2	721.2	776.1	801.9	820.6	912.9
52.5°	335.6	652.5	680.0	676.1	671.8	667.9	671.8	713.5	760.2	775.0	842.0
55°	191.1	290.6	604.7	639.3	635.5	630.0	626.7	641.0	710.8	730.5	777.2
57.5°	184.0	184.6	266.9	576.2	597.6	592.7	588.8	592.1	651.4	684.9	720.6
60°	178.0	178.0	178.0	254.9	550.9	552.6	547.6	542.1	567.9	633.9	663.5
62.5°	164.8	168.1	169.7	169.7	251.6	510.3	505.3	503.7	504.8	572.3	606.4
65°	147.8	155.4	158.7	160.9	160.9	264.2	461.9	459.2	455.3	481.2	548.7
67.5°	129.1	136.8	143.9	148.3	148.9	153.8	275.7	413.6	408.1	408.7	487.2
70°	109.9	116.4	124.1	130.7	136.8	139.5	143.9	343.3	361.4	353.7	417.4
72.5°	95.0	97.8	103.3	109.9	117.0	123.6	127.4	136.8	313.6	305.4	317.5
75°	79.1	81.3	85.1	89.5	95.0	102.7	109.3	115.9	166.4	256.0	254.3
77.5°	61.5	65.4	69.8	72.5	75.2	80.7	89.5	96.1	102.7	173.0	203.8
80°	47.2	50.0	52.2	54.9	58.2	62.1	65.4	73.1	80.7	86.8	156.0
82.5°	35.2	36.8	38.4	39.5	40.6	42.8	48.9	51.6	56.6	62.1	73.6
85°	24.7	25.8	26.9	27.5	28.0	28.6	30.8	31.3	36.3	37.4	44.5
87.5°	15.9	16.5	17.6	18.1	18.1	18.7	19.2	19.2	19.2	18.1	22.0
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: P1212991

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1198.5	1198.5
2.5°	1199.0	1207.8
5°	1197.4	1208.9
7.5°	1193.0	1204.0
10°	1186.4	1199.6
12.5°	1179.3	1191.9
15°	1173.2	1182.6
17.5°	1166.6	1172.1
20°	1157.9	1162.2
22.5°	1149.1	1146.9
25°	1139.2	1134.2
27.5°	1126.5	1117.2
30°	1115.0	1098.5
32.5°	1104.0	1077.1
35°	1089.2	1055.1
37.5°	1073.8	1032.6
40°	1055.7	1006.8
42.5°	1036.5	981.0
45°	1012.3	956.3
47.5°	990.9	926.6
50°	961.2	894.8
52.5°	925.0	865.1
55°	882.1	828.8
57.5°	836.0	790.9
60°	786.5	747.6
62.5°	726.7	702.5
65°	656.4	650.9
67.5°	564.6	593.8
70°	463.0	528.4
72.5°	387.2	459.2
75°	317.5	381.7
77.5°	251.6	299.3
80°	157.1	219.2
82.5°	105.5	143.9
85°	63.7	68.7
87.5°	24.7	25.3
90°	0.0	0.0

(END OF REPORT)