

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: P1213026

Luminaire Tested: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213026
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: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

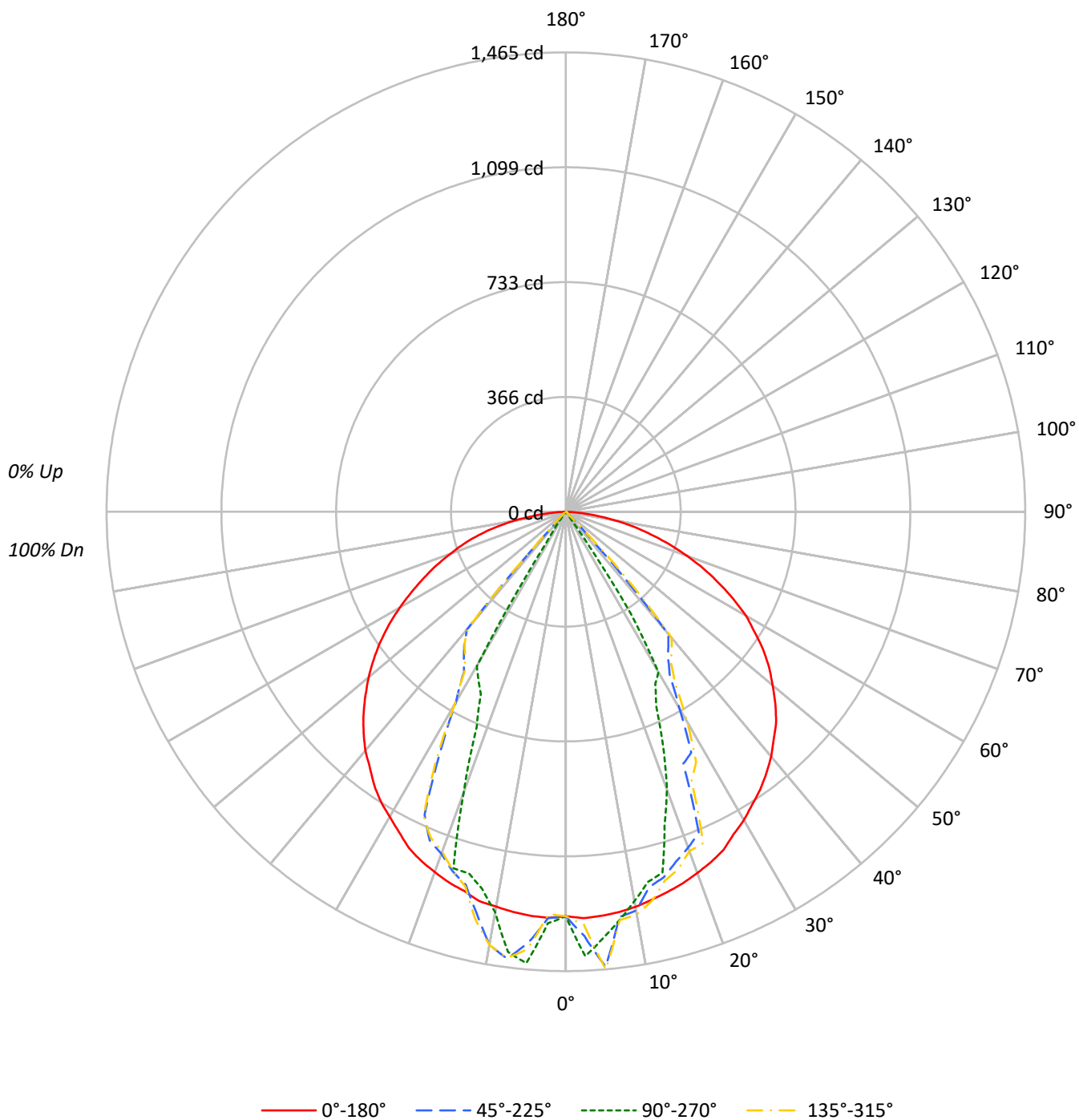
Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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	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°	10423	10423	10423	10423
5°	10466	10720	10462	11352
10°	10441	9700	10434	9981
15°	10412	9054	10387	9078
20°	10424	7132	10395	7219
25°	10454	5161	10403	4870
30°	10407	4527	10297	4352
35°	10438	100	10284	121
40°	10473	22	10223	22
45°	10510	12	10116	10
50°	10430	10	9951	10
55°	10369	7	9731	7
60°	10173	8	9377	8
65°	9643	13	8955	8
70°	8945	14	8517	14
75°	7913	16	8042	16
80°	6428	18	6795	18
85°	3785	21	3860	21

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 11348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	7.1
10°-20°	353.0	19.2
20°-30°	449.1	24.5
30°-40°	379.4	20.7
40°-50°	248.0	13.5
50°-60°	156.3	8.5
60°-70°	83.2	4.5
70°-80°	30.3	1.7
80°-90°	5.2	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°	931.5	50.8
0°-40°	1310.9	71.5
0°-60°	1715.3	93.5
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1290	1290	1290	1290	1290	
5°	1294	1365	1293	1445	1294	123
15°	1255	1191	1252	1194	1255	355
25°	1190	680	1184	642	1190	547
35°	1081	13	1065	16	1081	676
45°	948	2	913	1	948	729
55°	769	1	722	1	769	685
65°	538	1	500	1	538	533
75°	283	1	288	1	283	300
85°	55	1	56	1	55	70
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°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1297.2	1297.9	1298.3	1299.1	1300.3	1300.6	1301.4	1300.6	1300.6	1300.6	1300.6
5°	1293.7	1295.2	1296.4	1297.9	1300.6	1301.0	1304.1	1304.5	1306.1	1309.2	1311.5
7.5°	1287.9	1289.4	1291.7	1295.6	1299.5	1303.7	1309.2	1315.0	1323.1	1330.8	1340.5
10°	1279.4	1281.3	1284.0	1287.5	1306.5	1309.2	1321.2	1337.8	1342.5	1366.8	1385.0
12.5°	1267.0	1273.5	1280.5	1283.6	1301.8	1330.5	1370.7	1362.6	1353.7	1433.4	1432.3
15°	1255.0	1263.9	1260.4	1285.5	1302.2	1352.1	1335.1	1371.5	1438.1	1421.8	1422.6
17.5°	1242.2	1244.1	1263.5	1284.4	1314.2	1339.7	1360.6	1410.6	1423.7	1424.9	1410.6
20°	1225.9	1235.2	1263.5	1282.5	1332.8	1344.8	1390.1	1415.6	1410.2	1397.0	1372.6
22.5°	1209.3	1237.5	1266.2	1292.9	1328.1	1360.3	1382.7	1394.7	1366.5	1314.6	1286.7
25°	1189.5	1206.2	1243.7	1282.8	1327.0	1345.5	1358.7	1339.4	1302.6	1256.1	1209.3
27.5°	1159.0	1185.7	1233.7	1277.8	1317.7	1340.1	1318.8	1272.4	1213.2	1182.6	1161.3
30°	1135.4	1170.2	1209.7	1252.3	1293.7	1306.8	1252.6	1199.6	1159.0	1128.4	1123.7
32.5°	1106.7	1156.3	1193.8	1234.5	1269.3	1251.9	1199.2	1130.7	1097.0	1085.4	1090.1
35°	1081.2	1118.7	1167.9	1207.7	1232.9	1193.8	1110.6	1068.0	1051.7	1058.3	1049.8
37.5°	1050.6	1100.1	1145.4	1179.9	1171.4	1112.5	1042.1	1015.0	1016.9	1011.5	995.2
40°	1018.8	1066.1	1113.3	1145.8	1116.0	1026.2	979.4	973.5	974.7	957.3	934.1
42.5°	981.7	1024.6	1071.9	1101.3	1037.0	967.0	935.2	936.0	925.9	901.5	889.2
45°	948.4	987.9	1037.0	1039.7	960.8	902.3	893.0	883.0	860.5	852.4	843.1
47.5°	905.8	949.5	990.2	975.5	886.1	849.7	842.7	820.6	809.4	803.2	795.5
50°	860.5	904.6	941.8	900.0	815.6	807.1	784.3	766.8	759.1	752.5	745.5
52.5°	817.5	853.9	891.9	819.9	761.4	753.3	727.4	717.3	709.5	702.2	700.6
55°	768.8	800.9	826.8	743.6	709.5	690.6	672.0	665.0	657.7	654.2	660.0
57.5°	713.4	749.8	745.9	668.5	653.4	625.9	619.0	614.3	608.9	611.2	562.8
60°	663.5	691.4	672.4	613.5	588.0	569.4	563.2	560.1	563.2	516.0	453.7
62.5°	601.9	633.3	595.0	549.3	522.2	513.3	507.9	512.1	466.8	415.0	399.9
65°	538.1	572.1	515.6	480.4	463.4	455.6	455.2	419.2	374.7	354.6	354.6
67.5°	476.5	511.7	439.0	409.5	403.0	403.7	381.3	326.7	314.3	300.8	261.7
70°	411.1	442.1	362.7	344.9	341.0	338.3	283.7	269.0	254.3	218.3	215.2
72.5°	346.1	361.2	291.5	287.2	286.5	238.1	227.2	202.1	185.0	180.8	178.8
75°	283.0	278.3	230.3	234.2	197.4	180.4	163.0	148.3	145.9	144.4	36.0
77.5°	223.4	200.1	181.5	157.9	141.3	120.0	116.5	114.2	75.1	27.1	22.1
80°	162.6	129.7	120.8	102.6	87.5	84.0	85.9	26.3	20.9	17.4	15.1
82.5°	103.4	82.8	67.7	59.2	57.7	25.2	18.6	15.1	13.2	11.2	9.3
85°	55.4	36.8	34.1	28.6	17.0	11.6	9.7	7.4	6.2	5.0	4.6
87.5°	17.4	14.7	12.0	9.7	5.8	3.9	3.1	2.7	2.3	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°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1299.9	1300.6	1300.3	1301.4	1301.4	1303.0	1304.1	1305.3	1307.6	1308.8	1317.7
5°	1316.5	1318.5	1324.3	1329.7	1336.3	1338.2	1349.4	1352.1	1365.3	1366.8	1410.2
7.5°	1353.7	1361.0	1375.0	1388.9	1402.8	1411.7	1427.2	1436.9	1447.4	1456.6	1491.1
10°	1398.6	1411.0	1424.5	1438.5	1446.6	1463.6	1472.9	1474.5	1471.7	1456.6	1400.9
12.5°	1442.7	1455.1	1449.3	1452.0	1461.7	1431.5	1435.7	1414.1	1429.2	1354.5	1299.1
15°	1436.5	1435.7	1421.4	1375.0	1382.7	1325.0	1301.8	1284.0	1298.3	1290.6	1282.1
17.5°	1417.9	1382.7	1357.9	1302.2	1278.6	1262.3	1262.7	1263.1	1256.1	1263.5	1241.8
20°	1339.4	1299.9	1263.1	1243.4	1236.4	1224.8	1230.6	1224.8	1225.2	1227.5	1194.2
22.5°	1234.8	1222.8	1201.5	1207.7	1205.4	1215.9	1208.1	1196.1	1200.0	1182.6	1157.4
25°	1192.6	1178.7	1177.9	1180.3	1176.8	1172.1	1165.2	1147.0	1145.8	1140.4	1128.8
27.5°	1150.1	1150.8	1153.2	1146.2	1133.8	1124.5	1114.1	1105.2	1108.6	1102.5	1086.6
30°	1120.6	1120.3	1106.3	1100.1	1077.3	1077.7	1075.0	1069.5	1066.1	1066.5	1056.4
32.5°	1078.8	1066.8	1051.0	1043.2	1041.3	1034.3	1028.9	1030.1	1032.8	1023.1	1033.5
35°	1035.9	1011.1	1008.8	1002.2	996.0	991.4	993.3	985.5	985.2	984.0	898.8
37.5°	978.2	966.2	965.0	958.1	953.8	952.6	945.3	946.5	949.9	956.1	766.5
40°	930.6	919.7	917.0	916.6	907.4	906.6	908.5	915.9	920.9	882.2	730.5
42.5°	879.5	880.3	871.7	866.3	867.5	871.0	880.3	854.7	740.5	705.7	667.7
45°	835.7	831.9	827.2	825.7	835.7	828.8	726.6	670.5	656.9	655.4	548.9
47.5°	790.1	788.9	787.0	788.1	730.8	651.5	628.3	620.9	623.2	621.7	471.5
50°	744.0	745.5	745.5	651.1	597.7	584.5	586.5	593.0	552.0	515.2	439.4
52.5°	704.1	692.1	593.0	559.0	547.0	552.8	538.8	487.4	450.2	428.5	406.5
55°	630.2	541.9	519.9	514.5	518.7	467.2	435.5	402.2	392.5	390.2	377.4
57.5°	495.9	478.1	480.0	458.3	409.2	380.1	367.4	362.7	358.5	355.4	31.0
60°	438.6	443.6	406.1	359.6	339.9	336.0	332.9	328.6	327.9	322.5	19.7
62.5°	401.4	353.0	320.5	308.9	304.3	303.1	297.3	295.4	250.8	34.5	14.7
65°	302.7	283.0	276.8	274.1	269.0	269.0	223.4	35.2	28.6	24.8	13.2
67.5°	247.0	245.4	242.3	238.8	162.6	34.1	29.8	25.9	22.5	19.7	11.6
70°	209.0	208.3	189.7	34.8	29.0	25.5	22.5	20.1	18.6	16.6	10.5
72.5°	171.5	34.8	29.4	25.5	22.1	20.1	18.2	16.3	14.7	13.5	8.5
75°	26.7	23.6	20.9	19.0	17.4	15.5	13.9	12.8	12.4	10.8	5.8
77.5°	19.4	16.6	15.1	13.5	12.0	10.8	9.3	8.1	7.4	6.2	4.3
80°	13.5	12.0	10.8	8.9	7.7	6.6	5.8	5.0	4.6	3.9	1.9
82.5°	7.7	6.6	5.8	4.6	4.3	3.5	3.1	2.7	2.7	1.9	1.9
85°	3.5	3.5	2.7	2.3	1.9	1.9	1.9	1.5	1.5	1.2	1.2
87.5°	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2	0.8
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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1330.1	1335.1	1344.8	1354.8	1343.6	1383.9	1380.8	1394.3	1401.7	1405.2	1413.3
5°	1448.5	1471.0	1478.3	1456.3	1443.5	1430.3	1400.5	1378.1	1380.8	1373.4	1346.7
7.5°	1446.2	1398.2	1333.5	1304.1	1301.8	1298.3	1307.6	1313.0	1313.8	1313.4	1312.6
10°	1323.9	1299.1	1294.8	1291.0	1292.5	1278.2	1271.6	1253.0	1263.1	1257.7	1259.6
12.5°	1286.7	1280.9	1258.1	1226.3	1245.3	1231.0	1222.8	1228.3	1222.1	1216.3	1214.3
15°	1264.6	1227.1	1214.3	1206.6	1201.2	1198.1	1200.8	1194.6	1192.6	1191.5	1194.2
17.5°	1219.0	1203.9	1189.9	1169.4	1169.8	1168.6	1176.4	1188.0	1188.8	1129.2	1075.4
20°	1183.0	1170.6	1152.8	1140.0	1157.4	1126.5	1006.8	949.9	941.0	941.0	942.6
22.5°	1154.3	1126.8	1128.0	1107.9	944.9	911.6	912.4	915.9	900.0	845.8	840.0
25°	1115.2	1111.0	1026.2	886.8	888.0	862.1	822.2	766.1	705.3	705.3	695.2
27.5°	1085.8	995.6	871.7	865.9	778.8	723.9	689.8	638.3	631.4	624.8	625.5
30°	1060.6	842.3	845.4	723.9	659.6	613.9	611.2	602.7	598.5	597.3	593.0
32.5°	838.5	820.3	707.6	616.3	591.1	583.7	580.3	570.6	570.2	562.8	511.7
35°	786.2	720.0	592.3	567.5	560.1	553.2	547.4	367.4	43.4	17.4	15.1
37.5°	726.6	601.5	547.7	536.5	529.5	391.4	39.1	13.5	9.7	7.0	6.2
40°	615.9	537.3	520.3	507.9	209.4	13.5	8.5	6.6	3.9	3.5	3.1
42.5°	519.5	506.3	488.1	148.6	15.5	6.6	4.3	3.1	2.7	2.7	2.3
45°	486.2	474.6	196.6	14.7	9.7	3.1	2.7	2.7	2.3	1.5	1.5
47.5°	455.2	400.6	17.8	9.3	6.2	2.7	2.3	1.5	1.5	1.5	1.2
50°	422.3	22.1	12.4	7.0	3.9	1.5	1.5	1.5	1.5	1.2	1.2
52.5°	79.0	15.5	10.1	6.2	1.9	1.5	1.5	1.5	1.2	1.2	1.2
55°	18.6	12.4	9.3	5.4	1.5	1.5	1.5	1.2	1.2	1.2	0.8
57.5°	13.9	9.3	7.4	5.0	1.5	1.2	1.2	1.2	1.2	1.2	0.8
60°	11.6	6.6	5.8	4.6	1.2	1.2	1.2	1.2	1.2	1.2	0.8
62.5°	8.1	5.4	4.3	3.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	6.6	4.3	3.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	5.8	3.5	2.3	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	4.6	1.2	1.2	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	3.9	1.2	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	3.9	1.9	0.8	0.8	1.2	1.2	1.5	1.5	1.2	1.2	1.2
77.5°	2.7	1.9	0.8	0.8	1.2	1.2	1.5	1.5	1.2	1.2	1.2
80°	1.5	1.9	0.8	1.2	1.2	2.3	2.7	1.5	1.2	1.2	1.2
82.5°	1.5	1.9	2.3	2.3	1.2	1.9	2.3	1.9	1.5	1.2	1.2
85°	1.5	1.2	1.5	1.9	1.2	1.9	1.9	1.5	1.5	1.2	1.2
87.5°	0.8	1.2	1.2	1.5	1.5	1.5	1.9	1.5	1.5	1.5	1.2
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1417.2	1418.7	1394.3	1385.8	1393.2	1391.6	1385.0	1360.6	1357.9	1341.7	1318.1
5°	1354.5	1364.9	1352.1	1374.2	1363.7	1374.2	1405.9	1420.6	1444.6	1459.4	1464.8
7.5°	1310.7	1313.0	1313.0	1315.0	1316.9	1317.3	1315.0	1313.4	1306.8	1298.7	1313.4
10°	1257.7	1260.4	1265.0	1264.3	1263.9	1272.0	1273.9	1290.6	1289.8	1292.9	1304.1
12.5°	1230.2	1209.3	1228.3	1223.2	1230.2	1219.4	1239.5	1236.0	1237.2	1246.5	1270.5
15°	1184.5	1191.1	1195.7	1195.7	1198.5	1196.1	1193.8	1209.7	1219.4	1219.7	1218.2
17.5°	1096.6	1046.7	1097.8	1084.6	1189.5	1192.3	1183.4	1176.0	1176.0	1181.8	1194.2
20°	941.4	942.6	943.0	948.0	954.2	953.8	954.2	1106.7	1179.1	1162.5	1151.2
22.5°	825.3	811.0	837.7	835.7	869.0	905.8	941.0	937.5	939.9	1047.5	1144.3
25°	661.5	680.1	665.0	671.6	709.2	752.9	780.0	850.8	927.9	922.5	947.6
27.5°	622.8	617.8	624.8	624.8	629.8	635.6	650.7	690.6	759.1	831.1	899.2
30°	586.1	590.3	591.1	598.1	601.9	605.8	608.1	623.2	638.7	688.6	772.6
32.5°	440.1	385.9	507.9	540.8	568.6	575.2	579.9	586.1	597.3	604.6	646.8
35°	12.8	12.8	13.5	15.5	19.7	133.2	507.1	559.0	566.3	575.6	583.4
37.5°	6.2	4.6	5.4	5.8	7.0	9.7	13.9	43.4	482.7	545.8	554.3
40°	2.7	2.7	2.7	2.7	3.1	3.9	5.8	9.7	14.7	388.3	523.7
42.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.7	3.5	7.0	16.6	274.8
45°	1.5	1.5	1.2	1.5	1.5	1.9	2.3	2.3	3.1	10.5	19.0
47.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.3	7.0	10.1
50°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.4	7.0
52.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	6.2
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.5	5.4
57.5°	0.8	0.8	0.8	0.8	0.8	1.2	0.8	0.8	1.2	1.2	5.0
60°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	4.6
62.5°	1.2	1.2	0.8	1.2	0.8	0.8	1.2	1.2	1.2	1.2	3.1
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	1.2
67.5°	1.2	1.2	1.2	1.2	0.8	1.2	0.8	1.2	1.2	0.8	0.8
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	0.8	0.8	0.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.3	1.9	1.9	0.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9	1.9	2.7
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.9
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.2	1.5
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.2	1.2	1.2
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1320.0	1306.8	1302.6	1293.7	1292.9	1293.7	1291.7	1289.0	1290.6	1287.9	1285.5
5°	1467.9	1432.6	1409.8	1379.2	1337.0	1327.7	1325.4	1312.3	1307.6	1306.1	1299.9
7.5°	1348.3	1412.5	1451.2	1464.4	1414.8	1403.2	1389.7	1378.8	1368.4	1348.6	1336.6
10°	1295.2	1298.3	1335.5	1378.8	1449.3	1459.0	1466.3	1442.7	1436.1	1385.8	1375.0
12.5°	1282.8	1283.2	1287.5	1313.8	1369.2	1375.4	1401.3	1415.2	1432.3	1441.9	1434.2
15°	1226.3	1257.7	1280.9	1283.2	1288.3	1299.1	1306.8	1355.2	1375.7	1430.7	1427.6
17.5°	1200.0	1210.1	1243.7	1271.2	1266.6	1262.7	1268.9	1275.5	1295.2	1350.2	1349.4
20°	1156.3	1188.4	1206.6	1235.2	1261.2	1262.3	1255.4	1251.5	1243.7	1252.6	1260.8
22.5°	1137.7	1142.7	1176.8	1196.9	1226.3	1236.8	1238.3	1238.7	1234.5	1229.8	1227.5
25°	1135.7	1119.9	1137.3	1162.5	1184.1	1195.4	1208.1	1212.4	1210.8	1210.8	1208.5
27.5°	929.4	1114.8	1105.5	1122.2	1148.5	1156.3	1162.8	1176.0	1184.1	1189.9	1192.6
30°	885.3	918.6	1080.8	1083.1	1109.8	1109.0	1116.4	1127.2	1137.7	1151.2	1154.7
32.5°	783.1	864.8	989.4	1044.0	1071.9	1074.6	1078.5	1081.5	1091.2	1106.3	1119.5
35°	627.5	787.7	847.7	1025.4	1030.5	1035.9	1038.2	1045.5	1048.6	1054.8	1066.5
37.5°	567.9	651.1	813.3	886.8	982.8	987.5	999.9	1003.0	1008.0	1013.0	1021.9
40°	533.4	556.3	677.0	792.0	944.5	947.6	951.9	959.6	960.0	965.8	973.9
42.5°	505.9	520.6	555.9	756.4	917.4	917.0	907.0	912.0	914.3	920.5	931.7
45°	404.1	488.5	511.0	617.8	730.5	783.1	884.1	867.5	867.1	869.4	881.4
47.5°	20.5	459.5	475.4	509.8	689.8	691.7	704.9	815.6	832.6	827.2	828.4
50°	13.9	31.7	442.8	458.7	594.6	642.6	652.3	657.3	721.2	792.4	780.8
52.5°	10.8	18.2	271.4	425.8	483.1	518.3	580.6	616.3	620.1	648.8	745.9
55°	9.7	13.9	29.4	392.9	410.7	418.5	454.8	517.2	567.5	582.6	583.7
57.5°	8.5	12.8	20.1	177.7	373.5	375.1	381.3	403.0	448.3	489.7	536.5
60°	7.7	11.2	15.9	30.6	339.5	343.4	344.5	350.3	355.7	384.0	437.8
62.5°	4.6	8.9	13.9	22.1	268.6	308.5	308.1	312.0	317.0	320.1	331.0
65°	3.9	7.0	12.0	18.6	32.9	41.0	249.3	277.2	280.3	284.5	286.5
67.5°	3.5	6.2	8.9	14.7	24.8	28.3	32.5	40.3	219.9	247.7	251.6
70°	3.1	4.3	7.4	12.4	20.1	21.7	24.4	27.9	32.9	40.6	199.0
72.5°	1.9	3.1	5.0	8.9	15.5	17.4	19.0	21.3	23.6	28.3	32.5
75°	0.8	2.3	4.3	6.6	12.0	13.2	14.3	15.9	17.8	20.9	23.2
77.5°	0.8	1.9	3.5	4.6	7.7	8.9	10.5	11.6	13.2	14.7	17.0
80°	2.7	1.5	2.3	3.5	5.4	5.8	6.6	7.4	8.5	9.7	11.2
82.5°	1.9	2.3	2.7	2.3	2.7	3.5	3.9	4.6	5.0	5.8	6.2
85°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.7	3.5
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1285.5	1284.8	1282.5	1282.5	1282.1	1283.6	1284.8	1285.9	1285.5	1287.9	1285.5
5°	1295.2	1293.3	1289.8	1286.7	1285.5	1286.3	1285.2	1286.3	1284.8	1286.7	1283.2
7.5°	1321.9	1315.4	1301.8	1296.4	1289.4	1289.0	1285.5	1284.8	1282.5	1282.5	1278.2
10°	1369.2	1337.4	1333.5	1317.3	1311.5	1283.2	1289.4	1279.0	1277.8	1272.8	1270.8
12.5°	1407.9	1383.1	1375.7	1361.4	1345.2	1287.9	1300.6	1278.2	1277.0	1267.0	1256.5
15°	1408.6	1423.0	1402.8	1363.4	1359.9	1320.4	1294.5	1286.7	1276.6	1246.5	1251.5
17.5°	1363.4	1396.3	1405.9	1397.4	1372.6	1345.9	1309.5	1294.1	1263.9	1250.3	1241.0
20°	1289.8	1323.1	1364.5	1367.2	1382.7	1363.7	1316.1	1291.0	1254.6	1231.0	1223.2
22.5°	1231.4	1255.7	1303.4	1325.4	1344.4	1351.0	1320.8	1283.6	1238.3	1215.5	1210.8
25°	1200.4	1205.8	1220.1	1246.1	1287.9	1318.1	1322.3	1282.8	1259.2	1209.3	1183.0
27.5°	1189.2	1184.5	1178.7	1191.9	1223.2	1260.0	1284.4	1291.0	1232.1	1184.5	1158.2
30°	1160.5	1163.2	1154.3	1149.7	1170.2	1208.1	1251.5	1262.3	1217.0	1167.9	1137.7
32.5°	1125.3	1129.9	1131.5	1123.4	1119.1	1145.4	1192.3	1218.2	1215.9	1144.3	1110.6
35°	1081.2	1094.3	1097.8	1098.2	1091.2	1087.0	1114.1	1167.9	1188.4	1133.4	1084.6
37.5°	1034.7	1038.6	1057.5	1062.6	1062.6	1049.8	1069.9	1112.9	1141.5	1109.0	1052.9
40°	976.6	989.0	1006.8	1015.7	1024.6	1025.8	1014.6	1044.8	1092.0	1083.9	1023.1
42.5°	934.5	942.6	953.4	965.4	983.6	988.3	976.6	982.1	1031.2	1052.5	984.4
45°	885.3	896.1	899.2	912.4	931.4	944.9	944.5	933.3	972.8	999.1	956.1
47.5°	835.0	845.4	850.8	857.4	871.4	888.8	898.5	893.4	901.2	952.6	918.6
50°	783.1	788.9	799.7	807.1	816.4	826.5	849.7	854.3	843.5	884.5	877.2
52.5°	733.9	735.9	743.2	750.6	763.0	770.3	788.9	802.8	802.1	814.1	831.1
55°	695.6	687.1	688.6	694.5	702.6	713.8	724.3	745.9	753.3	755.6	782.7
57.5°	543.5	631.0	638.7	638.3	648.0	653.0	662.7	677.0	703.4	697.5	727.7
60°	493.9	503.6	576.8	585.3	588.8	593.4	605.0	618.2	637.5	649.9	663.1
62.5°	376.6	435.5	457.5	522.2	532.3	535.0	542.7	548.9	569.0	597.3	591.9
65°	291.5	316.6	384.0	410.3	465.3	472.3	483.1	489.7	495.5	528.0	529.5
67.5°	252.0	255.9	274.1	324.8	359.6	413.4	420.0	425.8	434.7	457.9	472.3
70°	215.2	219.9	224.9	229.2	274.5	310.1	360.0	361.9	367.7	383.2	415.7
72.5°	40.6	183.9	187.0	189.7	194.7	218.3	265.9	304.6	307.0	314.3	344.1
75°	27.5	32.1	44.1	151.7	156.8	158.3	166.5	214.8	250.5	252.0	265.2
77.5°	19.7	22.1	26.7	31.7	80.9	121.5	123.5	132.4	169.2	195.9	198.2
80°	13.5	15.1	17.8	20.1	24.8	32.5	89.8	92.5	97.2	133.9	140.9
82.5°	7.7	8.9	10.5	12.8	14.7	18.6	24.0	31.0	63.1	67.4	89.4
85°	3.9	4.3	5.0	6.2	7.4	8.9	12.0	14.7	20.1	36.4	37.5
87.5°	1.9	1.9	1.9	1.9	3.1	3.5	4.3	5.4	7.0	10.5	13.5
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1285.9	1291.4	1296.0	1297.2	1297.2	1297.9	1299.1	1299.9	1300.6	1301.4	1300.6
5°	1283.6	1289.4	1293.3	1294.5	1294.5	1296.8	1298.7	1301.0	1302.2	1302.2	1301.4
7.5°	1277.8	1282.1	1287.1	1290.2	1290.6	1294.5	1297.9	1297.5	1299.1	1299.9	1301.8
10°	1270.1	1270.1	1278.6	1280.9	1282.8	1287.1	1288.3	1290.6	1296.0	1296.8	1301.8
12.5°	1266.2	1262.3	1272.4	1273.5	1280.1	1274.7	1281.7	1284.0	1278.6	1285.9	1276.3
15°	1248.8	1253.4	1251.9	1255.4	1267.0	1260.8	1279.7	1273.5	1287.5	1270.8	1300.3
17.5°	1234.5	1233.7	1239.9	1243.0	1245.3	1258.5	1263.5	1270.5	1275.9	1271.2	1282.8
20°	1224.0	1217.8	1222.5	1225.9	1234.1	1244.1	1247.2	1236.8	1255.0	1285.9	1293.3
22.5°	1204.3	1200.0	1205.4	1205.4	1217.8	1216.3	1227.9	1221.3	1238.3	1274.3	1311.9
25°	1177.5	1177.9	1183.7	1190.7	1193.0	1210.5	1216.6	1225.2	1246.5	1289.4	1312.3
27.5°	1150.5	1148.1	1151.6	1165.9	1177.9	1190.7	1192.6	1221.7	1250.7	1280.1	1300.3
30°	1123.4	1121.0	1123.4	1133.8	1148.1	1156.6	1177.9	1216.6	1243.7	1263.9	1282.8
32.5°	1094.3	1092.0	1097.4	1105.2	1130.3	1131.5	1173.7	1210.1	1231.4	1246.1	1242.6
35°	1063.4	1060.3	1065.3	1077.3	1100.5	1109.0	1153.2	1180.3	1204.3	1211.2	1195.0
37.5°	1026.2	1020.8	1027.0	1043.6	1068.0	1092.8	1129.5	1160.9	1173.7	1155.1	1135.7
40°	987.5	983.6	994.5	1003.0	1031.6	1066.1	1108.3	1130.3	1122.2	1100.9	1079.6
42.5°	953.0	944.9	954.6	970.8	1003.4	1042.5	1076.5	1088.9	1069.5	1038.2	1013.4
45°	910.8	901.2	912.8	934.5	969.3	1013.8	1040.5	1036.3	1003.4	976.3	942.2
47.5°	866.7	855.1	866.7	892.6	931.7	979.0	998.3	979.0	937.5	903.5	876.0
50°	823.4	809.8	821.0	860.1	898.5	934.8	934.5	896.9	872.1	835.0	811.0
52.5°	780.4	761.0	772.3	814.8	853.2	894.6	864.0	829.2	799.4	766.8	759.1
55°	727.4	706.5	721.5	783.5	812.9	837.3	788.5	757.9	728.5	712.3	702.6
57.5°	677.0	654.2	667.4	740.5	762.2	768.4	723.5	680.1	662.7	657.3	643.4
60°	625.2	599.2	611.6	696.0	711.1	685.9	641.8	608.1	604.6	593.8	583.0
62.5°	575.6	547.0	554.7	640.6	647.6	601.9	561.3	552.4	543.9	533.0	527.2
65°	518.7	488.9	499.7	581.8	575.2	516.4	493.5	491.6	480.4	471.5	480.0
67.5°	466.5	431.2	446.3	517.5	487.7	439.7	430.5	425.8	416.9	421.9	332.5
70°	409.2	370.8	391.4	448.3	404.1	372.4	368.9	361.9	362.3	288.0	242.7
72.5°	345.3	312.0	341.8	372.4	319.7	310.5	305.4	304.6	245.8	199.7	188.5
75°	289.2	255.5	287.6	299.2	254.7	248.5	248.1	205.2	161.4	154.1	150.6
77.5°	225.7	199.7	230.3	212.9	195.5	188.5	169.2	127.0	121.5	116.5	43.7
80°	152.1	154.1	171.9	146.7	139.4	118.8	93.7	89.8	77.4	31.0	24.4
82.5°	92.5	116.1	109.5	91.7	89.8	64.6	59.2	30.2	22.5	17.8	15.5
85°	48.0	58.8	56.5	49.9	37.2	33.3	18.6	14.3	11.6	8.9	7.4
87.5°	16.3	21.7	20.9	16.6	12.8	10.1	6.6	5.4	3.9	3.1	2.7
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1299.9	1299.9	1299.1	1299.9	1300.3	1299.5	1299.5	1300.3	1300.6	1301.0	1303.0
5°	1301.8	1302.6	1303.7	1306.1	1306.5	1311.1	1313.0	1314.2	1315.4	1315.7	1313.0
7.5°	1306.1	1308.8	1311.1	1310.7	1308.0	1300.6	1298.3	1296.4	1299.9	1308.8	1319.2
10°	1309.9	1297.5	1274.3	1306.1	1296.4	1305.3	1331.6	1337.4	1355.2	1380.4	1387.7
12.5°	1283.2	1317.3	1324.6	1289.0	1354.8	1330.5	1359.5	1385.0	1392.4	1417.9	1402.5
15°	1311.9	1328.5	1339.7	1375.4	1371.5	1392.4	1400.5	1395.5	1396.6	1403.2	1420.6
17.5°	1311.5	1344.8	1352.1	1376.1	1392.4	1392.8	1390.5	1388.1	1394.3	1399.4	1388.9
20°	1333.9	1344.8	1359.1	1368.8	1371.9	1375.7	1383.1	1377.3	1365.7	1354.5	1349.8
22.5°	1322.7	1347.1	1359.5	1361.0	1359.1	1347.1	1336.3	1320.0	1314.6	1308.8	1310.7
25°	1325.0	1336.3	1334.7	1328.5	1320.4	1297.9	1292.5	1285.5	1275.1	1249.9	1227.1
27.5°	1308.4	1302.6	1295.6	1280.5	1265.8	1253.8	1240.3	1217.8	1199.2	1172.1	1162.1
30°	1280.5	1257.3	1240.3	1231.4	1217.0	1196.9	1176.4	1148.9	1125.3	1119.9	1114.8
32.5°	1227.1	1204.3	1190.3	1168.6	1144.3	1120.3	1096.6	1085.8	1080.8	1081.5	1076.9
35°	1172.5	1152.4	1131.5	1099.0	1080.8	1056.8	1048.3	1045.9	1041.3	1036.3	1030.8
37.5°	1114.5	1090.8	1059.5	1040.1	1021.9	1012.3	1008.0	1004.5	996.4	987.5	981.3
40°	1058.3	1015.7	998.3	979.4	973.9	969.7	963.5	955.0	943.7	942.2	939.5
42.5°	983.2	952.6	937.5	933.7	927.1	919.7	914.3	905.0	900.4	903.5	905.8
45°	912.0	896.5	891.5	886.8	874.5	864.0	860.5	857.4	861.3	878.3	837.7
47.5°	854.3	848.1	841.9	834.2	822.6	814.8	818.3	821.4	824.9	699.9	638.7
50°	804.4	795.9	786.2	777.7	770.7	769.9	788.1	733.5	614.3	611.2	549.3
52.5°	749.8	737.0	731.2	726.2	729.3	740.9	613.2	569.0	545.8	474.2	442.5
55°	691.0	679.7	679.7	684.4	667.7	541.2	534.6	462.2	418.5	406.1	401.0
57.5°	632.1	631.0	637.5	583.0	491.2	471.1	396.0	380.1	373.2	371.6	363.5
60°	578.3	589.2	493.2	453.7	394.5	355.7	344.9	343.0	335.6	332.9	325.5
62.5°	535.4	444.0	413.4	337.5	317.8	312.8	307.0	304.3	297.7	262.8	77.0
65°	386.7	365.4	296.5	283.7	282.2	274.8	272.5	245.0	57.7	38.7	32.9
67.5°	291.9	259.0	250.1	247.7	240.4	225.7	67.0	38.3	32.9	28.6	25.2
70°	224.1	218.3	211.7	206.3	60.8	37.9	32.9	27.9	24.0	21.3	19.4
72.5°	183.5	179.6	104.5	39.9	32.5	27.5	24.4	21.3	18.6	17.0	15.5
75°	143.6	39.9	32.9	27.5	23.6	20.1	17.8	15.9	14.3	13.2	12.0
77.5°	32.5	26.3	22.5	19.0	17.0	15.1	13.5	11.6	10.5	9.3	7.7
80°	20.1	17.4	14.7	13.5	11.6	9.7	8.5	7.7	6.2	5.8	5.0
82.5°	13.2	10.5	9.3	7.7	6.2	5.8	5.0	3.9	3.5	3.1	2.7
85°	5.8	5.0	4.3	3.5	2.7	2.3	1.9	1.5	1.5	1.5	1.5
87.5°	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1303.7	1310.7	1317.3	1315.4	1308.4	1297.5	1294.5	1290.2	1293.3	1299.9	1302.6
5°	1313.0	1309.2	1323.1	1343.6	1376.9	1380.0	1403.2	1408.6	1427.2	1438.8	1438.5
7.5°	1326.2	1381.2	1404.0	1428.8	1440.0	1437.3	1440.8	1438.1	1433.8	1431.9	1429.5
10°	1393.2	1435.0	1443.5	1443.5	1426.1	1402.5	1392.4	1375.0	1340.1	1340.9	1335.1
12.5°	1432.3	1447.0	1426.8	1409.8	1339.7	1312.6	1283.2	1269.3	1261.2	1248.8	1253.4
15°	1411.7	1390.8	1378.8	1323.9	1280.9	1232.1	1232.9	1224.4	1215.5	1216.3	1210.5
17.5°	1381.5	1364.9	1279.7	1241.8	1220.9	1201.9	1198.5	1187.2	1181.4	1179.5	1179.1
20°	1340.1	1280.1	1216.6	1207.4	1182.2	1160.5	1157.0	1160.5	1178.3	1146.6	1039.0
22.5°	1291.7	1205.4	1186.8	1160.5	1143.5	1135.0	1156.3	1059.5	913.2	931.0	912.0
25°	1209.7	1172.1	1140.4	1120.3	1118.3	1066.1	888.4	869.8	775.7	725.4	668.9
27.5°	1149.7	1133.4	1100.1	1096.6	1071.5	871.7	779.2	677.0	639.5	633.7	621.3
30°	1113.3	1090.1	1069.9	982.1	855.1	701.8	625.2	610.8	604.3	597.3	586.5
32.5°	1069.5	1047.5	1057.2	825.7	681.7	604.3	588.8	578.3	566.3	561.7	522.6
35°	1025.0	1015.0	826.1	694.1	586.1	567.5	555.9	545.0	433.5	104.9	35.6
37.5°	977.4	975.1	742.5	576.0	548.9	531.5	498.6	103.0	24.4	16.6	12.4
40°	940.3	742.8	586.8	540.0	517.9	490.5	68.9	17.0	10.8	6.6	4.3
42.5°	915.5	668.1	525.3	506.7	458.7	50.7	17.4	7.4	4.3	3.5	2.7
45°	705.7	527.6	490.8	471.5	58.1	17.4	10.1	3.5	2.7	2.3	1.5
47.5°	651.1	479.2	457.5	103.0	19.4	9.3	7.0	2.3	1.5	1.5	1.5
50°	493.2	442.8	364.3	25.2	12.4	6.6	5.0	1.5	1.5	1.5	1.2
52.5°	432.4	408.8	39.1	16.6	9.7	5.0	3.1	1.2	1.2	1.2	1.2
55°	395.2	259.4	23.2	12.8	8.1	4.6	1.9	1.2	1.2	1.2	0.8
57.5°	361.5	34.8	17.0	10.8	7.4	4.3	1.2	1.2	1.2	1.2	0.8
60°	306.6	25.2	13.9	9.7	7.0	3.9	1.2	1.2	1.2	1.2	1.2
62.5°	39.9	19.7	12.0	8.5	5.0	3.1	0.8	1.2	1.2	1.2	1.2
65°	29.0	15.5	10.8	5.8	3.1	1.2	0.8	1.2	1.2	1.2	1.2
67.5°	22.5	12.8	8.1	5.0	2.7	0.8	0.8	1.2	1.2	1.2	1.2
70°	17.8	10.8	6.6	4.3	2.3	0.8	0.8	1.2	1.2	1.2	1.2
72.5°	13.9	7.7	4.6	2.3	1.5	0.8	0.8	1.2	1.2	1.2	1.2
75°	10.5	6.2	3.5	1.9	0.8	0.8	0.8	1.2	1.2	1.2	1.2
77.5°	7.0	3.9	2.7	1.5	1.5	1.5	1.9	1.9	1.2	1.2	1.2
80°	4.6	2.7	1.9	1.9	1.9	1.5	1.9	1.9	1.2	1.9	1.2
82.5°	2.3	1.9	1.9	1.5	1.5	1.2	1.5	1.5	1.5	1.5	1.2
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.2
87.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.5	1.5	1.2
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1299.1	1300.3	1297.2	1313.8	1305.3	1306.1	1309.5	1300.6	1302.6	1296.4	1292.1
5°	1440.0	1442.3	1444.6	1445.4	1447.0	1448.9	1446.6	1445.4	1443.1	1435.4	1427.2
7.5°	1417.9	1415.2	1414.1	1415.6	1418.3	1419.5	1417.5	1420.3	1430.3	1434.6	1437.3
10°	1301.8	1289.4	1297.9	1296.8	1287.1	1319.6	1310.7	1315.7	1319.2	1354.8	1376.5
12.5°	1246.5	1254.2	1239.5	1232.1	1241.8	1248.4	1255.0	1241.0	1260.4	1251.5	1280.1
15°	1200.0	1195.4	1193.8	1194.2	1192.3	1201.5	1203.9	1207.0	1209.7	1221.7	1226.3
17.5°	1179.1	1186.8	1189.9	1192.3	1188.4	1184.1	1179.9	1173.7	1175.6	1172.5	1181.4
20°	966.6	940.6	939.1	954.2	937.5	946.8	969.3	1119.5	1114.5	1172.9	1153.2
22.5°	806.7	782.3	761.4	743.2	769.2	780.0	821.8	869.0	945.7	933.7	1016.9
25°	658.8	649.9	644.5	641.8	643.7	643.0	652.3	674.3	709.2	791.2	897.3
27.5°	616.3	612.0	610.1	603.9	608.5	607.0	614.3	619.0	629.4	637.5	672.0
30°	582.6	577.5	574.1	567.5	572.1	572.5	574.8	586.8	591.1	598.1	608.9
32.5°	212.9	125.4	117.7	111.9	122.3	159.5	279.9	489.3	558.2	563.6	576.0
35°	20.9	17.4	15.5	15.5	15.9	17.4	23.2	61.2	111.9	432.4	541.2
37.5°	8.1	7.0	5.8	5.4	5.8	6.6	8.9	11.6	15.9	32.9	146.7
40°	3.5	3.1	2.7	2.7	2.7	2.7	3.1	3.9	5.8	10.8	17.0
42.5°	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.7	3.5	7.0
45°	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.9	3.1
47.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
50°	1.2	1.2	1.2	1.2	0.8	1.2	0.8	1.2	1.2	1.2	1.2
52.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	1.2	1.2	0.8	1.2	0.8	0.8	1.2	1.2	1.2	0.8	0.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	1.5
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.3	1.9
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1284.8	1284.4	1292.5	1298.7	1296.4	1298.7	1301.4	1301.8	1302.6	1299.5	1298.3
5°	1411.7	1399.7	1376.5	1359.9	1340.5	1305.3	1287.9	1289.8	1290.2	1289.0	1290.6
7.5°	1436.1	1435.0	1426.8	1423.4	1410.2	1385.0	1344.8	1337.8	1320.8	1309.9	1301.0
10°	1375.0	1402.8	1410.2	1422.6	1430.3	1425.7	1391.6	1386.6	1375.7	1363.4	1366.1
12.5°	1308.8	1331.6	1332.8	1400.1	1415.2	1416.8	1403.6	1410.6	1412.1	1384.3	1368.0
15°	1227.5	1238.3	1261.2	1323.9	1369.5	1398.2	1406.7	1410.6	1391.6	1390.5	1383.9
17.5°	1191.9	1198.8	1209.3	1244.5	1313.8	1356.0	1392.0	1389.3	1396.6	1391.2	1374.6
20°	1147.0	1152.8	1171.4	1189.2	1223.2	1279.4	1346.7	1351.7	1361.4	1360.3	1364.9
22.5°	1146.2	1125.7	1128.8	1142.7	1178.3	1228.6	1300.3	1316.9	1323.1	1327.4	1332.4
25°	909.3	1072.3	1102.1	1111.0	1134.2	1163.6	1248.0	1254.2	1265.8	1284.8	1298.7
27.5°	787.7	898.5	1017.7	1079.6	1094.3	1118.7	1169.0	1178.3	1217.8	1222.5	1244.1
30°	621.7	707.2	885.3	1034.3	1058.7	1075.7	1111.4	1129.9	1147.0	1165.5	1188.4
32.5°	584.9	598.5	697.2	855.9	1045.5	1032.8	1059.1	1070.3	1088.9	1105.2	1121.8
35°	551.2	560.5	581.4	701.0	851.6	997.5	1015.4	1022.7	1033.2	1045.5	1057.5
37.5°	516.0	529.9	544.3	576.4	787.7	969.7	969.3	977.8	984.0	994.5	1004.5
40°	93.7	486.6	509.8	530.7	610.8	773.4	925.9	929.8	934.1	940.6	951.1
42.5°	15.1	81.3	477.7	497.8	520.6	692.5	906.2	890.3	887.6	892.3	901.5
45°	7.7	19.7	96.0	464.9	485.4	552.4	740.9	862.8	860.1	851.2	853.2
47.5°	5.8	12.4	23.6	160.6	454.5	474.2	683.6	676.3	727.7	826.5	811.4
50°	5.0	8.5	13.9	32.9	401.4	436.6	526.5	615.1	642.2	645.7	764.1
52.5°	4.6	5.8	10.1	21.3	84.4	403.7	428.1	459.1	504.8	602.7	600.4
55°	4.3	5.4	8.5	14.3	29.4	363.9	389.0	394.8	404.5	451.4	513.3
57.5°	2.3	5.0	8.1	12.4	22.1	66.6	353.0	357.7	365.4	367.4	389.4
60°	1.2	4.6	7.4	10.8	16.3	31.0	317.4	322.8	327.5	328.3	335.2
62.5°	0.8	4.3	6.2	10.1	13.5	22.1	75.1	153.3	291.5	291.5	299.6
65°	0.8	3.1	3.9	6.6	12.4	18.2	31.7	36.8	71.6	176.1	262.8
67.5°	0.8	1.2	3.5	5.4	9.3	13.9	23.2	27.1	32.5	37.2	68.9
70°	0.8	0.8	3.1	3.5	5.8	10.5	16.6	19.0	22.1	25.2	29.0
72.5°	0.8	0.8	2.7	2.7	3.9	7.0	12.8	13.9	15.9	17.8	20.5
75°	1.9	1.5	2.3	2.3	2.7	5.4	9.7	10.8	11.6	13.2	15.1
77.5°	1.9	1.9	1.9	1.9	1.9	3.5	6.2	7.0	8.1	8.9	10.5
80°	1.5	1.5	1.5	1.9	1.9	2.3	3.9	4.3	4.6	5.8	6.2
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.7	3.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5
87.5°	1.2	1.2	1.2	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1297.9	1295.6	1293.7	1294.8	1291.4	1289.8	1291.0	1291.4	1292.1	1294.1	1294.5
5°	1294.5	1293.7	1297.2	1299.1	1298.3	1299.1	1299.1	1297.5	1295.2	1296.8	1293.3
7.5°	1292.1	1287.1	1283.2	1284.0	1280.1	1284.8	1289.0	1295.2	1297.2	1297.2	1293.3
10°	1332.0	1326.6	1304.9	1290.2	1280.5	1272.0	1292.1	1271.6	1281.3	1244.5	1286.7
12.5°	1364.9	1372.3	1362.6	1322.3	1315.4	1289.8	1304.5	1279.4	1272.0	1229.8	1243.4
15°	1378.1	1364.1	1361.0	1349.8	1334.7	1327.4	1287.9	1283.6	1271.6	1276.3	1258.5
17.5°	1366.5	1373.4	1364.1	1356.8	1341.3	1323.9	1300.3	1279.4	1262.7	1225.5	1256.9
20°	1355.2	1364.5	1336.6	1341.3	1342.8	1322.7	1310.3	1292.9	1272.0	1237.2	1210.1
22.5°	1336.6	1330.1	1332.4	1325.4	1319.6	1322.3	1305.3	1293.3	1258.1	1242.2	1205.4
25°	1306.5	1304.1	1310.3	1309.5	1295.6	1291.0	1282.5	1269.7	1255.7	1230.2	1200.0
27.5°	1257.3	1269.3	1280.1	1285.2	1277.8	1265.4	1260.8	1253.4	1243.7	1217.8	1195.4
30°	1205.4	1219.0	1231.4	1242.2	1248.8	1243.4	1239.1	1234.8	1220.1	1203.1	1177.9
32.5°	1146.2	1164.0	1181.0	1194.2	1208.5	1212.8	1209.7	1206.2	1193.8	1178.3	1158.2
35°	1077.7	1102.1	1126.8	1150.5	1156.6	1166.7	1176.8	1171.0	1164.4	1148.9	1130.3
37.5°	1019.6	1037.0	1054.8	1084.6	1106.3	1119.1	1136.9	1139.2	1128.0	1120.6	1096.3
40°	959.6	975.5	1001.4	1018.8	1048.6	1063.4	1082.3	1090.8	1088.1	1083.9	1062.6
42.5°	912.4	920.1	937.2	952.6	982.1	1012.3	1028.9	1038.2	1047.9	1044.4	1033.5
45°	862.1	869.0	874.8	888.4	917.0	943.7	964.3	978.2	995.6	1003.7	990.6
47.5°	812.1	814.1	821.0	832.3	849.3	869.8	904.3	925.2	941.4	957.3	948.8
50°	773.8	766.8	768.0	775.0	788.9	809.0	833.8	863.2	881.8	901.2	903.1
52.5°	676.3	732.8	719.2	723.1	730.5	740.1	766.1	795.1	817.9	834.6	851.2
55°	567.5	578.7	687.5	672.0	676.6	685.2	697.2	726.2	748.3	771.5	794.7
57.5°	440.1	523.7	528.0	628.6	626.3	627.1	637.2	653.8	675.9	704.9	724.6
60°	342.2	377.4	445.9	480.8	569.0	572.1	577.9	587.6	606.6	634.1	665.4
62.5°	301.9	306.6	331.0	383.2	440.5	509.8	522.2	523.7	532.3	559.7	596.1
65°	265.2	268.3	275.6	281.0	329.0	396.0	455.6	465.3	470.7	487.0	517.9
67.5°	182.7	231.1	237.7	241.5	246.2	277.2	351.1	400.3	406.5	420.8	447.9
70°	35.2	73.2	200.1	204.4	206.7	213.7	225.7	303.9	344.9	358.5	370.8
72.5°	24.0	28.3	34.1	80.5	170.3	174.2	176.9	187.0	256.3	295.7	302.3
75°	17.4	19.4	22.8	28.3	34.8	113.4	140.5	145.5	150.6	207.9	241.2
77.5°	12.4	13.9	15.5	18.2	21.3	27.5	39.5	108.8	113.8	116.5	164.5
80°	7.0	8.5	10.5	12.0	13.5	15.5	20.1	25.2	56.1	82.1	86.3
82.5°	3.9	4.6	5.4	6.6	7.4	9.3	11.2	13.5	17.8	26.3	55.7
85°	1.9	1.9	1.9	2.7	3.1	4.3	5.0	5.8	8.1	11.2	15.5
87.5°	1.2	1.2	1.5	1.5	1.5	1.9	1.9	1.9	2.3	3.5	5.0
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: P1213026

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1294.8	1293.7	1293.7	1298.3	1297.2
5°	1292.5	1291.4	1291.0	1296.0	1293.7
7.5°	1290.6	1286.3	1285.2	1289.8	1287.9
10°	1282.8	1279.7	1281.7	1280.1	1279.4
12.5°	1269.7	1267.7	1259.6	1260.4	1267.0
15°	1246.1	1253.8	1239.9	1252.3	1255.0
17.5°	1202.7	1220.1	1233.7	1241.0	1242.2
20°	1222.1	1227.9	1220.9	1221.3	1225.9
22.5°	1196.9	1199.6	1201.5	1199.2	1209.3
25°	1156.6	1146.2	1168.6	1173.3	1189.5
27.5°	1144.3	1135.7	1146.2	1145.4	1159.0
30°	1134.2	1106.7	1111.4	1118.7	1135.4
32.5°	1119.9	1076.5	1071.9	1088.1	1106.7
35°	1094.7	1053.7	1042.8	1053.3	1081.2
37.5°	1073.4	1021.9	1000.3	1014.2	1050.6
40°	1041.7	997.2	963.5	975.9	1018.8
42.5°	1003.7	975.9	924.0	932.5	981.7
45°	965.4	940.6	885.7	889.9	948.4
47.5°	926.3	903.5	845.8	846.6	905.8
50°	888.0	857.8	810.2	796.6	860.5
52.5°	838.1	810.2	774.2	752.1	817.5
55°	790.8	759.5	733.2	699.1	768.8
57.5°	744.8	709.9	692.1	648.4	713.4
60°	681.7	665.0	638.7	596.9	663.5
62.5°	617.0	611.6	584.9	541.5	601.9
65°	541.5	554.3	526.8	489.7	538.1
67.5°	470.3	493.2	463.0	440.1	476.5
70°	394.5	420.8	403.7	395.6	411.1
72.5°	319.7	345.3	346.8	341.0	346.1
75°	247.0	275.2	290.7	281.8	283.0
77.5°	187.4	200.9	217.9	224.9	223.4
80°	115.7	139.4	153.3	167.6	162.6
82.5°	58.5	78.2	95.2	110.7	103.4
85°	24.4	31.4	43.7	57.7	55.4
87.5°	7.4	12.4	13.2	18.6	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)