

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: P1213331

Luminaire Tested: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

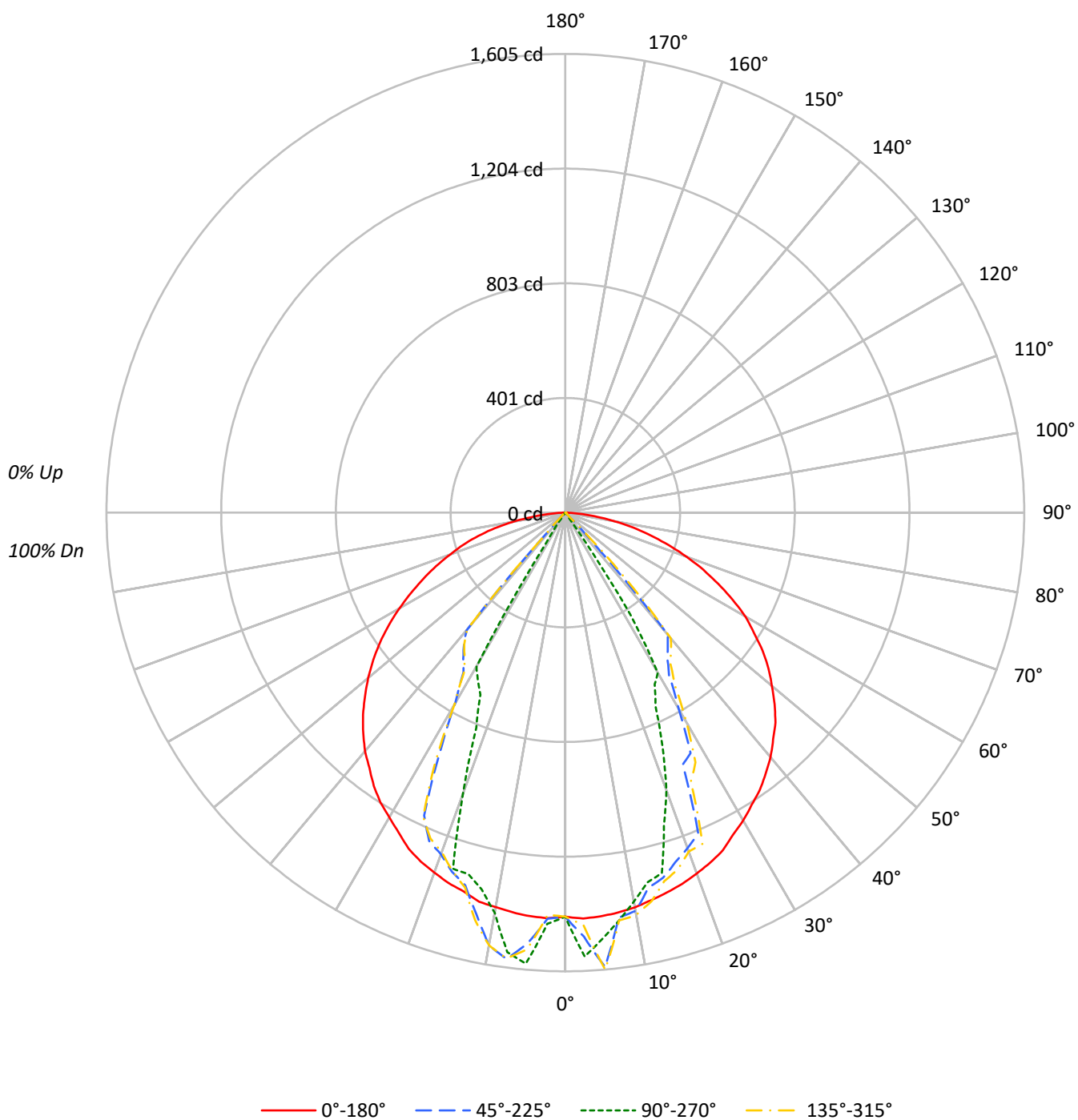
Lumens per Lamp: N/A
Luminaire Lumens: 2010.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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			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	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°	22847	22847	22847	22847
5°	22877	23497	22871	24883
10°	22760	21262	22747	21876
15°	22634	19846	22578	19898
20°	22595	15631	22531	15825
25°	22590	11312	22479	10675
30°	22413	9924	22177	9539
35°	22398	219	22069	266
40°	22384	48	21849	48
45°	22360	28	21521	22
50°	22069	23	21056	23
55°	21794	15	20457	15
60°	21210	16	19550	16
65°	19886	28	18470	17
70°	18168	30	17297	30
75°	15702	34	15960	34
80°	12245	39	12946	39
85°	6566	46	6696	46

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 24154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	7.1
10°-20°	386.8	19.2
20°-30°	492.2	24.5
30°-40°	415.8	20.7
40°-50°	271.8	13.5
50°-60°	171.3	8.5
60°-70°	91.2	4.5
70°-80°	33.2	1.7
80°-90°	5.7	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°	1020.9	50.8
0°-40°	1436.7	71.5
0°-60°	1879.9	93.5
0°-90°	2010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1414	1414	1414	1414	1414	
5°	1418	1496	1417	1584	1418	135
15°	1375	1305	1372	1309	1375	389
25°	1304	745	1297	703	1304	600
35°	1185	14	1168	17	1185	741
45°	1039	2	1000	1	1039	799
55°	842	1	791	1	842	751
65°	590	1	548	1	590	584
75°	310	1	315	1	310	329
85°	61	1	62	1	61	77
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°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1421.6	1422.5	1422.9	1423.8	1425.0	1425.5	1426.3	1425.5	1425.5	1425.5	1425.5
5°	1417.8	1419.5	1420.8	1422.5	1425.5	1425.9	1429.3	1429.7	1431.4	1434.8	1437.3
7.5°	1411.5	1413.2	1415.7	1419.9	1424.2	1428.9	1434.8	1441.2	1450.1	1458.6	1469.2
10°	1402.1	1404.2	1407.2	1411.0	1431.8	1434.8	1447.9	1466.2	1471.3	1498.0	1517.9
12.5°	1388.6	1395.8	1403.4	1406.8	1426.7	1458.1	1502.2	1493.3	1483.6	1571.0	1569.7
15°	1375.4	1385.2	1381.3	1408.9	1427.2	1481.9	1463.2	1503.1	1576.1	1558.2	1559.1
17.5°	1361.4	1363.5	1384.7	1407.6	1440.3	1468.3	1491.2	1545.9	1560.4	1561.6	1545.9
20°	1343.6	1353.8	1384.7	1405.5	1460.7	1473.8	1523.5	1551.5	1545.5	1531.1	1504.4
22.5°	1325.3	1356.3	1387.7	1417.0	1455.6	1490.8	1515.4	1528.6	1497.6	1440.7	1410.2
25°	1303.7	1321.9	1363.1	1405.9	1454.3	1474.7	1489.1	1467.9	1427.6	1376.7	1325.3
27.5°	1270.2	1299.5	1352.1	1400.4	1444.1	1468.7	1445.4	1394.5	1329.6	1296.1	1272.7
30°	1244.3	1282.5	1325.8	1372.4	1417.8	1432.2	1372.9	1314.7	1270.2	1236.7	1231.6
32.5°	1212.9	1267.2	1308.4	1352.9	1391.1	1372.0	1314.3	1239.2	1202.3	1189.6	1194.7
35°	1184.9	1226.1	1279.9	1323.6	1351.2	1308.4	1217.2	1170.5	1152.7	1159.9	1150.6
37.5°	1151.4	1205.7	1255.3	1293.1	1283.8	1219.3	1142.1	1112.4	1114.5	1108.6	1090.7
40°	1116.6	1168.4	1220.1	1255.8	1223.1	1124.7	1073.3	1067.0	1068.2	1049.2	1023.7
42.5°	1075.9	1123.0	1174.7	1207.0	1136.6	1059.8	1025.0	1025.8	1014.8	988.1	974.5
45°	1039.4	1082.7	1136.6	1139.5	1053.0	988.9	978.7	967.7	943.1	934.2	924.0
47.5°	992.7	1040.7	1085.2	1069.1	971.1	931.2	923.6	899.4	887.1	880.3	871.8
50°	943.1	991.5	1032.2	986.4	893.9	884.5	859.5	840.4	831.9	824.7	817.1
52.5°	896.0	935.9	977.5	898.5	834.5	825.6	797.2	786.1	777.6	769.6	767.9
55°	842.5	877.8	906.2	815.0	777.6	756.9	736.5	728.9	720.8	717.0	723.3
57.5°	781.9	821.8	817.5	732.7	716.1	686.0	678.4	673.3	667.3	669.9	616.9
60°	727.2	757.7	736.9	672.4	644.4	624.1	617.3	613.9	617.3	565.5	497.2
62.5°	659.7	694.1	652.1	602.0	572.3	562.5	556.6	561.3	511.6	454.8	438.2
65°	589.7	627.0	565.1	526.5	507.8	499.3	498.9	459.5	410.7	388.6	388.6
67.5°	522.2	560.9	481.1	448.9	441.6	442.5	417.9	358.1	344.5	329.6	286.8
70°	450.5	484.5	397.5	378.0	373.8	370.8	311.0	294.8	278.7	239.3	235.9
72.5°	379.3	395.8	319.5	314.8	313.9	260.9	249.0	221.5	202.8	198.1	196.0
75°	310.1	305.0	252.4	256.7	216.4	197.7	178.6	162.5	159.9	158.2	39.5
77.5°	244.8	219.3	199.0	173.1	154.8	131.5	127.7	125.2	82.3	29.7	24.2
80°	178.2	142.1	132.4	112.4	95.9	92.1	94.2	28.8	22.9	19.1	16.5
82.5°	113.3	90.8	74.2	64.9	63.2	27.6	20.4	16.5	14.4	12.3	10.2
85°	60.7	40.3	37.3	31.4	18.7	12.7	10.6	8.1	6.8	5.5	5.1
87.5°	19.1	16.1	13.2	10.6	6.4	4.2	3.4	3.0	2.5	2.1	2.1
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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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1424.6	1425.5	1425.0	1426.3	1426.3	1428.0	1429.3	1430.6	1433.1	1434.4	1444.1
5°	1442.9	1445.0	1451.3	1457.3	1464.5	1466.6	1478.9	1481.9	1496.3	1498.0	1545.5
7.5°	1483.6	1491.6	1506.9	1522.2	1537.5	1547.2	1564.2	1574.8	1586.2	1596.4	1634.2
10°	1532.8	1546.4	1561.2	1576.5	1585.4	1604.1	1614.2	1615.9	1613.0	1596.4	1535.3
12.5°	1581.2	1594.7	1588.4	1591.3	1601.9	1568.9	1573.5	1549.8	1566.3	1484.4	1423.8
15°	1574.4	1573.5	1557.8	1506.9	1515.4	1452.2	1426.7	1407.2	1422.9	1414.4	1405.1
17.5°	1554.0	1515.4	1488.2	1427.2	1401.3	1383.5	1383.9	1384.3	1376.7	1384.7	1361.0
20°	1467.9	1424.6	1384.3	1362.7	1355.0	1342.3	1348.7	1342.3	1342.7	1345.3	1308.8
22.5°	1353.3	1340.2	1316.9	1323.6	1321.1	1332.6	1324.1	1310.9	1315.2	1296.1	1268.5
25°	1307.1	1291.8	1291.0	1293.5	1289.7	1284.6	1277.0	1257.0	1255.8	1249.8	1237.1
27.5°	1260.4	1261.3	1263.8	1256.2	1242.6	1232.4	1221.0	1211.2	1215.0	1208.2	1190.9
30°	1228.2	1227.8	1212.5	1205.7	1180.7	1181.1	1178.1	1172.2	1168.4	1168.8	1157.8
32.5°	1182.4	1169.2	1151.8	1143.3	1141.2	1133.6	1127.6	1128.9	1131.9	1121.3	1132.7
35°	1135.3	1108.1	1105.6	1098.4	1091.6	1086.5	1088.6	1080.1	1079.7	1078.4	985.1
37.5°	1072.1	1058.9	1057.6	1050.0	1045.3	1044.1	1036.0	1037.3	1041.1	1047.9	840.0
40°	1019.9	1008.0	1005.0	1004.6	994.4	993.6	995.7	1003.8	1009.3	966.9	800.5
42.5°	963.9	964.7	955.4	949.5	950.7	954.5	964.7	936.7	811.6	773.4	731.8
45°	915.9	911.7	906.6	904.9	915.9	908.3	796.3	734.8	719.9	718.2	601.6
47.5°	865.9	864.6	862.5	863.8	801.0	714.0	688.5	680.5	683.0	681.3	516.7
50°	815.4	817.1	817.1	713.6	655.0	640.6	642.7	649.9	605.0	564.7	481.5
52.5°	771.7	758.5	649.9	612.6	599.5	605.8	590.5	534.1	493.4	469.6	445.5
55°	690.7	593.9	569.8	563.8	568.5	512.1	477.3	440.8	430.2	427.6	413.6
57.5°	543.5	523.9	526.1	502.3	448.4	416.6	402.6	397.5	392.9	389.5	33.9
60°	480.7	486.2	445.0	394.1	372.5	368.2	364.9	360.2	359.3	353.4	21.6
62.5°	439.9	386.9	351.3	338.5	333.5	332.2	325.8	323.7	274.9	37.8	16.1
65°	331.8	310.1	303.3	300.4	294.8	294.8	244.8	38.6	31.4	27.2	14.4
67.5°	270.7	269.0	265.6	261.8	178.2	37.3	32.7	28.4	24.6	21.6	12.7
70°	229.1	228.2	207.9	38.2	31.8	28.0	24.6	22.1	20.4	18.2	11.5
72.5°	187.9	38.2	32.2	28.0	24.2	22.1	19.9	17.8	16.1	14.8	9.3
75°	29.3	25.9	22.9	20.8	19.1	17.0	15.3	14.0	13.6	11.9	6.4
77.5°	21.2	18.2	16.5	14.8	13.2	11.9	10.2	8.9	8.1	6.8	4.7
80°	14.8	13.2	11.9	9.8	8.5	7.2	6.4	5.5	5.1	4.2	2.1
82.5°	8.5	7.2	6.4	5.1	4.7	3.8	3.4	3.0	3.0	2.1	2.1
85°	3.8	3.8	3.0	2.5	2.1	2.1	2.1	1.7	1.7	1.3	1.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3	1.3	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°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1457.7	1463.2	1473.8	1484.9	1472.6	1516.7	1513.3	1528.1	1536.2	1540.0	1548.9
5°	1587.5	1612.1	1620.2	1596.0	1582.0	1567.6	1534.9	1510.3	1513.3	1505.2	1475.9
7.5°	1585.0	1532.4	1461.5	1429.3	1426.7	1422.9	1433.1	1439.0	1439.9	1439.5	1438.6
10°	1450.9	1423.8	1419.1	1414.9	1416.6	1400.9	1393.6	1373.3	1384.3	1378.4	1380.5
12.5°	1410.2	1403.8	1378.8	1344.0	1364.8	1349.1	1340.2	1346.1	1339.3	1333.0	1330.9
15°	1386.0	1344.9	1330.9	1322.4	1316.4	1313.0	1316.0	1309.2	1307.1	1305.8	1308.8
17.5°	1335.9	1319.4	1304.1	1281.6	1282.1	1280.8	1289.3	1302.0	1302.9	1237.5	1178.6
20°	1296.5	1282.9	1263.4	1249.4	1268.5	1234.6	1103.5	1041.1	1031.3	1031.3	1033.0
22.5°	1265.1	1235.0	1236.2	1214.2	1035.6	999.1	999.9	1003.8	986.4	927.0	920.6
25°	1222.2	1217.6	1124.7	971.9	973.2	944.8	901.1	839.6	773.0	773.0	761.9
27.5°	1190.0	1091.2	955.4	949.0	853.6	793.3	756.0	699.6	691.9	684.7	685.6
30°	1162.4	923.2	926.5	793.3	722.9	672.9	669.9	660.5	655.9	654.6	649.9
32.5°	918.9	899.0	775.5	675.4	647.8	639.8	635.9	625.3	624.9	616.9	560.9
35°	861.6	789.1	649.1	621.9	613.9	606.2	599.9	402.6	47.5	19.1	16.5
37.5°	796.3	659.3	600.3	588.0	580.4	428.9	42.8	14.8	10.6	7.6	6.8
40°	675.0	588.9	570.2	556.6	229.5	14.8	9.3	7.2	4.2	3.8	3.4
42.5°	569.3	554.9	535.0	162.9	17.0	7.2	4.7	3.4	3.0	3.0	2.5
45°	532.9	520.1	215.5	16.1	10.6	3.4	3.0	3.0	2.5	1.7	1.7
47.5°	498.9	439.1	19.5	10.2	6.8	3.0	2.5	1.7	1.7	1.7	1.3
50°	462.9	24.2	13.6	7.6	4.2	1.7	1.7	1.7	1.7	1.3	1.3
52.5°	86.5	17.0	11.0	6.8	2.1	1.7	1.7	1.7	1.3	1.3	1.3
55°	20.4	13.6	10.2	5.9	1.7	1.7	1.7	1.3	1.3	1.3	0.8
57.5°	15.3	10.2	8.1	5.5	1.7	1.3	1.3	1.3	1.3	1.3	0.8
60°	12.7	7.2	6.4	5.1	1.3	1.3	1.3	1.3	1.3	1.3	0.8
62.5°	8.9	5.9	4.7	3.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	7.2	4.7	3.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	6.4	3.8	2.5	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	5.1	1.3	1.3	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	4.2	1.3	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	4.2	2.1	0.8	0.8	1.3	1.3	1.7	1.7	1.3	1.3	1.3
77.5°	3.0	2.1	0.8	0.8	1.3	1.3	1.7	1.7	1.3	1.3	1.3
80°	1.7	2.1	0.8	1.3	1.3	2.5	3.0	1.7	1.3	1.3	1.3
82.5°	1.7	2.1	2.5	2.5	1.3	2.1	2.5	2.1	1.7	1.3	1.3
85°	1.7	1.3	1.7	2.1	1.3	2.1	2.1	1.7	1.7	1.3	1.3
87.5°	0.8	1.3	1.3	1.7	1.7	1.7	2.1	1.7	1.7	1.7	1.3
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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1553.2	1554.9	1528.1	1518.8	1526.9	1525.2	1517.9	1491.2	1488.2	1470.4	1444.6
5°	1484.4	1495.9	1481.9	1506.1	1494.6	1506.1	1540.9	1557.0	1583.3	1599.4	1605.3
7.5°	1436.5	1439.0	1439.0	1441.2	1443.3	1443.7	1441.2	1439.5	1432.2	1423.3	1439.5
10°	1378.4	1381.3	1386.4	1385.6	1385.2	1394.1	1396.2	1414.4	1413.6	1417.0	1429.3
12.5°	1348.2	1325.3	1346.1	1340.6	1348.2	1336.4	1358.4	1354.6	1355.9	1366.1	1392.4
15°	1298.2	1305.4	1310.5	1310.5	1313.5	1310.9	1308.4	1325.8	1336.4	1336.8	1335.1
17.5°	1201.9	1147.2	1203.2	1188.7	1303.7	1306.7	1296.9	1288.9	1288.9	1295.2	1308.8
20°	1031.8	1033.0	1033.5	1039.0	1045.8	1045.3	1045.8	1212.9	1292.2	1274.0	1261.7
22.5°	904.5	888.8	918.1	915.9	952.4	992.7	1031.3	1027.5	1030.1	1148.0	1254.1
25°	725.0	745.4	728.9	736.1	777.2	825.2	854.9	932.5	1016.9	1011.0	1038.6
27.5°	682.6	677.1	684.7	684.7	690.2	696.6	713.2	756.9	831.9	910.9	985.5
30°	642.3	647.0	647.8	655.5	659.7	663.9	666.5	683.0	700.0	754.7	846.8
32.5°	482.4	423.0	556.6	592.7	623.2	630.4	635.5	642.3	654.6	662.7	708.9
35°	14.0	14.0	14.8	17.0	21.6	145.9	555.8	612.6	620.7	630.9	639.3
37.5°	6.8	5.1	5.9	6.4	7.6	10.6	15.3	47.5	529.0	598.2	607.5
40°	3.0	3.0	3.0	3.0	3.4	4.2	6.4	10.6	16.1	425.5	574.0
42.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.8	7.6	18.2	301.2
45°	1.7	1.7	1.3	1.7	1.7	2.1	2.5	2.5	3.4	11.5	20.8
47.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.1	2.5	7.6	11.0
50°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	5.9	7.6
52.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	6.8
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3	1.7	5.9
57.5°	0.8	0.8	0.8	0.8	0.8	1.3	0.8	0.8	1.3	1.3	5.5
60°	0.8	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	5.1
62.5°	1.3	1.3	0.8	1.3	0.8	0.8	1.3	1.3	1.3	1.3	3.4
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.8	1.3
67.5°	1.3	1.3	1.3	1.3	0.8	1.3	0.8	1.3	1.3	0.8	0.8
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8	0.8
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8	0.8
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	0.8	0.8	0.8
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.1	2.5	2.1	2.1	0.8
80°	1.3	1.3	1.3	1.3	1.3	1.3	2.1	2.1	2.1	2.1	3.0
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	2.1
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.3	1.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.3	1.3	1.3
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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1446.7	1432.2	1427.6	1417.8	1417.0	1417.8	1415.7	1412.7	1414.4	1411.5	1408.9
5°	1608.7	1570.1	1545.1	1511.6	1465.3	1455.2	1452.6	1438.2	1433.1	1431.4	1424.6
7.5°	1477.6	1548.1	1590.5	1604.9	1550.6	1537.9	1523.0	1511.2	1499.7	1478.1	1464.9
10°	1419.5	1422.9	1463.6	1511.2	1588.4	1599.0	1607.0	1581.2	1573.9	1518.8	1506.9
12.5°	1405.9	1406.4	1411.0	1439.9	1500.6	1507.3	1535.8	1551.0	1569.7	1580.3	1571.8
15°	1344.0	1378.4	1403.8	1406.4	1411.9	1423.8	1432.2	1485.3	1507.8	1568.0	1564.6
17.5°	1315.2	1326.2	1363.1	1393.2	1388.1	1383.9	1390.7	1397.9	1419.5	1479.8	1478.9
20°	1267.2	1302.4	1322.4	1353.8	1382.2	1383.5	1375.8	1371.6	1363.1	1372.9	1381.8
22.5°	1246.9	1252.4	1289.7	1311.8	1344.0	1355.5	1357.2	1357.6	1352.9	1347.8	1345.3
25°	1244.7	1227.3	1246.4	1274.0	1297.8	1310.1	1324.1	1328.7	1327.0	1327.0	1324.5
27.5°	1018.6	1221.8	1211.6	1229.9	1258.7	1267.2	1274.4	1288.9	1297.8	1304.1	1307.1
30°	970.2	1006.7	1184.5	1187.0	1216.3	1215.5	1223.5	1235.4	1246.9	1261.7	1265.5
32.5°	858.2	947.8	1084.4	1144.2	1174.7	1177.7	1181.9	1185.3	1195.9	1212.5	1226.9
35°	687.7	863.3	929.1	1123.8	1129.3	1135.3	1137.8	1145.9	1149.3	1156.1	1168.8
37.5°	622.4	713.6	891.3	971.9	1077.2	1082.2	1095.8	1099.2	1104.7	1110.2	1120.0
40°	584.6	609.6	742.0	868.0	1035.2	1038.6	1043.2	1051.7	1052.1	1058.5	1067.4
42.5°	554.5	570.6	609.2	829.0	1005.5	1005.0	994.0	999.5	1002.1	1008.9	1021.2
45°	442.9	535.4	560.0	677.1	800.5	858.2	969.0	950.7	950.3	952.9	966.0
47.5°	22.5	503.6	521.0	558.7	756.0	758.1	772.5	893.9	912.5	906.6	907.9
50°	15.3	34.8	485.3	502.7	651.6	704.2	714.9	720.4	790.4	868.4	855.7
52.5°	11.9	19.9	297.4	466.7	529.5	568.1	636.4	675.4	679.6	711.0	817.5
55°	10.6	15.3	32.2	430.6	450.1	458.6	498.5	566.8	621.9	638.5	639.8
57.5°	9.3	14.0	22.1	194.7	409.4	411.1	417.9	441.6	491.3	536.7	588.0
60°	8.5	12.3	17.4	33.5	372.1	376.3	377.6	383.9	389.9	420.9	479.8
62.5°	5.1	9.8	15.3	24.2	294.4	338.1	337.7	341.9	347.5	350.9	362.7
65°	4.2	7.6	13.2	20.4	36.1	45.0	273.2	303.8	307.2	311.8	313.9
67.5°	3.8	6.8	9.8	16.1	27.2	31.0	35.6	44.1	241.0	271.5	275.8
70°	3.4	4.7	8.1	13.6	22.1	23.8	26.7	30.5	36.1	44.5	218.1
72.5°	2.1	3.4	5.5	9.8	17.0	19.1	20.8	23.3	25.9	31.0	35.6
75°	0.8	2.5	4.7	7.2	13.2	14.4	15.7	17.4	19.5	22.9	25.5
77.5°	0.8	2.1	3.8	5.1	8.5	9.8	11.5	12.7	14.4	16.1	18.7
80°	3.0	1.7	2.5	3.8	5.9	6.4	7.2	8.1	9.3	10.6	12.3
82.5°	2.1	2.5	3.0	2.5	3.0	3.8	4.2	5.1	5.5	6.4	6.8
85°	1.7	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.5	3.0	3.8
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1408.9	1408.1	1405.5	1405.5	1405.1	1406.8	1408.1	1409.3	1408.9	1411.5	1408.9
5°	1419.5	1417.4	1413.6	1410.2	1408.9	1409.8	1408.5	1409.8	1408.1	1410.2	1406.4
7.5°	1448.8	1441.6	1426.7	1420.8	1413.2	1412.7	1408.9	1408.1	1405.5	1405.5	1400.9
10°	1500.6	1465.8	1461.5	1443.7	1437.3	1406.4	1413.2	1401.7	1400.4	1394.9	1392.8
12.5°	1543.0	1515.8	1507.8	1492.1	1474.2	1411.5	1425.5	1400.9	1399.6	1388.6	1377.1
15°	1543.8	1559.5	1537.5	1494.2	1490.4	1447.1	1418.7	1410.2	1399.2	1366.1	1371.6
17.5°	1494.2	1530.2	1540.9	1531.5	1504.4	1475.1	1435.2	1418.2	1385.2	1370.3	1360.1
20°	1413.6	1450.1	1495.5	1498.4	1515.4	1494.6	1442.4	1414.9	1375.0	1349.1	1340.6
22.5°	1349.5	1376.2	1428.4	1452.6	1473.4	1480.6	1447.5	1406.8	1357.2	1332.1	1327.0
25°	1315.6	1321.5	1337.2	1365.6	1411.5	1444.6	1449.2	1405.9	1380.1	1325.3	1296.5
27.5°	1303.3	1298.2	1291.8	1306.2	1340.6	1380.9	1407.6	1414.9	1350.4	1298.2	1269.3
30°	1271.9	1274.9	1265.1	1260.0	1282.5	1324.1	1371.6	1383.5	1333.8	1279.9	1246.9
32.5°	1233.3	1238.4	1240.1	1231.2	1226.5	1255.3	1306.7	1335.1	1332.6	1254.1	1217.2
35°	1184.9	1199.3	1203.2	1203.6	1195.9	1191.3	1221.0	1279.9	1302.4	1242.2	1188.7
37.5°	1134.0	1138.2	1159.0	1164.6	1164.6	1150.6	1172.6	1219.7	1251.1	1215.5	1153.9
40°	1070.4	1083.9	1103.5	1113.2	1123.0	1124.2	1111.9	1145.0	1196.8	1187.9	1121.3
42.5°	1024.1	1033.0	1044.9	1058.1	1078.0	1083.1	1070.4	1076.3	1130.2	1153.5	1078.9
45°	970.2	982.1	985.5	999.9	1020.7	1035.6	1035.2	1022.9	1066.1	1095.0	1047.9
47.5°	915.1	926.5	932.5	939.7	955.0	974.1	984.7	979.2	987.6	1044.1	1006.7
50°	858.2	864.6	876.5	884.5	894.7	905.8	931.2	936.3	924.4	969.4	961.3
52.5°	804.4	806.5	814.5	822.6	836.2	844.2	864.6	879.9	879.0	892.2	910.9
55°	762.4	753.0	754.7	761.1	770.0	782.3	793.8	817.5	825.6	828.1	857.8
57.5°	595.6	691.5	700.0	699.6	710.2	715.7	726.3	742.0	770.9	764.5	797.6
60°	541.3	551.9	632.1	641.5	645.3	650.4	663.1	677.5	698.7	712.3	726.7
62.5°	412.8	477.3	501.5	572.3	583.3	586.3	594.8	601.6	623.6	654.6	648.7
65°	319.5	347.0	420.9	449.7	509.9	517.6	529.5	536.7	543.0	578.7	580.4
67.5°	276.2	280.4	300.4	355.9	394.1	453.1	460.3	466.7	476.4	501.9	517.6
70°	235.9	241.0	246.5	251.2	300.8	339.8	394.5	396.7	403.0	420.0	455.6
72.5°	44.5	201.5	204.9	207.9	213.4	239.3	291.5	333.9	336.4	344.5	377.2
75°	30.1	35.2	48.4	166.3	171.8	173.5	182.4	235.5	274.5	276.2	290.6
77.5°	21.6	24.2	29.3	34.8	88.7	133.2	135.3	145.1	185.4	214.7	217.2
80°	14.8	16.5	19.5	22.1	27.2	35.6	98.4	101.4	106.5	146.8	154.4
82.5°	8.5	9.8	11.5	14.0	16.1	20.4	26.3	33.9	69.2	73.8	98.0
85°	4.2	4.7	5.5	6.8	8.1	9.8	13.2	16.1	22.1	39.9	41.2
87.5°	2.1	2.1	2.1	2.1	3.4	3.8	4.7	5.9	7.6	11.5	14.8
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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1409.3	1415.3	1420.4	1421.6	1421.6	1422.5	1423.8	1424.6	1425.5	1426.3	1425.5
5°	1406.8	1413.2	1417.4	1418.7	1418.7	1421.2	1423.3	1425.9	1427.2	1427.2	1426.3
7.5°	1400.4	1405.1	1410.6	1414.0	1414.4	1418.7	1422.5	1422.1	1423.8	1424.6	1426.7
10°	1391.9	1391.9	1401.3	1403.8	1405.9	1410.6	1411.9	1414.4	1420.4	1421.2	1426.7
12.5°	1387.7	1383.5	1394.5	1395.8	1403.0	1397.0	1404.7	1407.2	1401.3	1409.3	1398.7
15°	1368.6	1373.7	1372.0	1375.8	1388.6	1381.8	1402.6	1395.8	1411.0	1392.8	1425.0
17.5°	1352.9	1352.1	1358.9	1362.2	1364.8	1379.2	1384.7	1392.4	1398.3	1393.2	1405.9
20°	1341.5	1334.7	1339.8	1343.6	1352.5	1363.5	1366.9	1355.5	1375.4	1409.3	1417.4
22.5°	1319.8	1315.2	1321.1	1321.1	1334.7	1333.0	1345.7	1338.5	1357.2	1396.6	1437.8
25°	1290.6	1291.0	1297.3	1305.0	1307.5	1326.6	1333.4	1342.7	1366.1	1413.2	1438.2
27.5°	1260.9	1258.3	1262.1	1277.8	1291.0	1305.0	1307.1	1338.9	1370.7	1403.0	1425.0
30°	1231.2	1228.6	1231.2	1242.6	1258.3	1267.6	1291.0	1333.4	1363.1	1385.2	1405.9
32.5°	1199.3	1196.8	1202.7	1211.2	1238.8	1240.1	1286.3	1326.2	1349.5	1365.6	1361.8
35°	1165.4	1162.0	1167.5	1180.7	1206.1	1215.5	1263.8	1293.5	1319.8	1327.5	1309.6
37.5°	1124.7	1118.7	1125.5	1143.8	1170.5	1197.6	1237.9	1272.3	1286.3	1265.9	1244.7
40°	1082.2	1078.0	1089.9	1099.2	1130.6	1168.4	1214.6	1238.8	1229.9	1206.6	1183.2
42.5°	1044.5	1035.6	1046.2	1064.0	1099.6	1142.5	1179.8	1193.4	1172.2	1137.8	1110.7
45°	998.2	987.6	1000.4	1024.1	1062.3	1111.1	1140.4	1135.7	1099.6	1069.9	1032.6
47.5°	949.9	937.2	949.9	978.3	1021.2	1072.9	1094.1	1072.9	1027.5	990.2	960.1
50°	902.4	887.5	899.8	942.7	984.7	1024.6	1024.1	983.0	955.8	915.1	888.8
52.5°	855.3	834.1	846.4	893.0	935.0	980.4	946.9	908.7	876.1	840.4	831.9
55°	797.2	774.2	790.8	858.7	890.9	917.6	864.2	830.7	798.4	780.6	770.0
57.5°	742.0	717.0	731.4	811.6	835.3	842.1	792.9	745.4	726.3	720.4	705.1
60°	685.2	656.7	670.3	762.8	779.3	751.8	703.4	666.5	662.7	650.8	638.9
62.5°	630.9	599.5	607.9	702.1	709.8	659.7	615.2	605.4	596.1	584.2	577.8
65°	568.5	535.8	547.7	637.6	630.4	565.9	540.9	538.8	526.5	516.7	526.1
67.5°	511.2	472.6	489.2	567.2	534.5	481.9	471.8	466.7	456.9	462.4	364.4
70°	448.4	406.4	428.9	491.3	442.9	408.1	404.3	396.7	397.1	315.6	266.0
72.5°	378.4	341.9	374.6	408.1	350.4	340.2	334.7	333.9	269.4	218.9	206.6
75°	316.9	280.0	315.2	327.9	279.2	272.4	271.9	224.8	176.9	168.8	165.0
77.5°	247.3	218.9	252.4	233.3	214.2	206.6	185.4	139.2	133.2	127.7	47.9
80°	166.7	168.8	188.4	160.8	152.7	130.2	102.7	98.4	84.8	33.9	26.7
82.5°	101.4	127.3	120.1	100.5	98.4	70.8	64.9	33.1	24.6	19.5	17.0
85°	52.6	64.5	61.9	54.7	40.7	36.5	20.4	15.7	12.7	9.8	8.1
87.5°	17.8	23.8	22.9	18.2	14.0	11.0	7.2	5.9	4.2	3.4	3.0
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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1424.6	1424.6	1423.8	1424.6	1425.0	1424.2	1424.2	1425.0	1425.5	1425.9	1428.0
5°	1426.7	1427.6	1428.9	1431.4	1431.8	1436.9	1439.0	1440.3	1441.6	1442.0	1439.0
7.5°	1431.4	1434.4	1436.9	1436.5	1433.5	1425.5	1422.9	1420.8	1424.6	1434.4	1445.8
10°	1435.6	1422.1	1396.6	1431.4	1420.8	1430.6	1459.4	1465.8	1485.3	1512.9	1520.9
12.5°	1406.4	1443.7	1451.8	1412.7	1484.9	1458.1	1489.9	1517.9	1526.0	1554.0	1537.0
15°	1437.8	1456.0	1468.3	1507.3	1503.1	1526.0	1534.9	1529.4	1530.7	1537.9	1557.0
17.5°	1437.3	1473.8	1481.9	1508.2	1526.0	1526.4	1523.9	1521.3	1528.1	1533.6	1522.2
20°	1461.9	1473.8	1489.5	1500.1	1503.5	1507.8	1515.8	1509.5	1496.7	1484.4	1479.3
22.5°	1449.6	1476.4	1489.9	1491.6	1489.5	1476.4	1464.5	1446.7	1440.7	1434.4	1436.5
25°	1452.2	1464.5	1462.8	1456.0	1447.1	1422.5	1416.6	1408.9	1397.5	1369.9	1344.9
27.5°	1433.9	1427.6	1419.9	1403.4	1387.3	1374.1	1359.3	1334.7	1314.3	1284.6	1273.6
30°	1403.4	1377.9	1359.3	1349.5	1333.8	1311.8	1289.3	1259.2	1233.3	1227.3	1221.8
32.5°	1344.9	1319.8	1304.6	1280.8	1254.1	1227.8	1201.9	1190.0	1184.5	1185.3	1180.2
35°	1285.0	1263.0	1240.1	1204.4	1184.5	1158.2	1148.9	1146.3	1141.2	1135.7	1129.8
37.5°	1221.4	1195.5	1161.2	1139.9	1120.0	1109.4	1104.7	1100.9	1092.0	1082.2	1075.5
40°	1159.9	1113.2	1094.1	1073.3	1067.4	1062.7	1055.9	1046.6	1034.3	1032.6	1029.6
42.5°	1077.6	1044.1	1027.5	1023.3	1016.1	1008.0	1002.1	991.9	986.8	990.2	992.7
45°	999.5	982.6	977.0	971.9	958.4	946.9	943.1	939.7	943.9	962.6	918.1
47.5°	936.3	929.5	922.7	914.2	901.5	893.0	896.9	900.2	904.1	767.0	700.0
50°	881.6	872.2	861.6	852.3	844.7	843.8	863.8	803.9	673.3	669.9	602.0
52.5°	821.8	807.8	801.4	795.9	799.3	812.0	672.0	623.6	598.2	519.7	484.9
55°	757.3	745.0	745.0	750.1	731.8	593.1	585.9	506.5	458.6	445.0	439.5
57.5°	692.8	691.5	698.7	638.9	538.4	516.3	434.0	416.6	409.0	407.3	398.4
60°	633.8	645.7	540.5	497.2	432.3	389.9	378.0	375.9	367.8	364.9	356.8
62.5°	586.7	486.6	453.1	369.9	348.3	342.8	336.4	333.5	326.2	288.1	84.4
65°	423.8	400.5	325.0	311.0	309.3	301.2	298.7	268.5	63.2	42.4	36.1
67.5°	319.9	283.8	274.1	271.5	263.5	247.3	73.4	42.0	36.1	31.4	27.6
70°	245.6	239.3	232.1	226.1	66.6	41.6	36.1	30.5	26.3	23.3	21.2
72.5°	201.1	196.8	114.5	43.7	35.6	30.1	26.7	23.3	20.4	18.7	17.0
75°	157.4	43.7	36.1	30.1	25.9	22.1	19.5	17.4	15.7	14.4	13.2
77.5°	35.6	28.8	24.6	20.8	18.7	16.5	14.8	12.7	11.5	10.2	8.5
80°	22.1	19.1	16.1	14.8	12.7	10.6	9.3	8.5	6.8	6.4	5.5
82.5°	14.4	11.5	10.2	8.5	6.8	6.4	5.5	4.2	3.8	3.4	3.0
85°	6.4	5.5	4.7	3.8	3.0	2.5	2.1	1.7	1.7	1.7	1.7
87.5°	2.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1428.9	1436.5	1443.7	1441.6	1433.9	1422.1	1418.7	1414.0	1417.4	1424.6	1427.6
5°	1439.0	1434.8	1450.1	1472.6	1509.0	1512.4	1537.9	1543.8	1564.2	1576.9	1576.5
7.5°	1453.5	1513.7	1538.7	1565.9	1578.2	1575.2	1579.0	1576.1	1571.4	1569.3	1566.7
10°	1526.9	1572.7	1582.0	1582.0	1562.9	1537.0	1526.0	1506.9	1468.7	1469.6	1463.2
12.5°	1569.7	1585.8	1563.8	1545.1	1468.3	1438.6	1406.4	1391.1	1382.2	1368.6	1373.7
15°	1547.2	1524.3	1511.2	1450.9	1403.8	1350.4	1351.2	1341.9	1332.1	1333.0	1326.6
17.5°	1514.1	1495.9	1402.6	1361.0	1338.1	1317.3	1313.5	1301.2	1294.8	1292.7	1292.2
20°	1468.7	1403.0	1333.4	1323.2	1295.6	1271.9	1268.1	1271.9	1291.4	1256.6	1138.7
22.5°	1415.7	1321.1	1300.7	1271.9	1253.2	1243.9	1267.2	1161.2	1000.8	1020.3	999.5
25°	1325.8	1284.6	1249.8	1227.8	1225.6	1168.4	973.6	953.3	850.2	795.0	733.1
27.5°	1260.0	1242.2	1205.7	1201.9	1174.3	955.4	854.0	742.0	700.9	694.5	680.9
30°	1220.1	1194.7	1172.6	1076.3	937.2	769.2	685.2	669.5	662.2	654.6	642.7
32.5°	1172.2	1148.0	1158.6	904.9	747.1	662.2	645.3	633.8	620.7	615.6	572.7
35°	1123.4	1112.4	905.3	760.7	642.3	621.9	609.2	597.3	475.2	115.0	39.0
37.5°	1071.2	1068.7	813.7	631.3	601.6	582.5	546.4	112.8	26.7	18.2	13.6
40°	1030.5	814.1	643.2	591.8	567.6	537.5	75.5	18.7	11.9	7.2	4.7
42.5°	1003.3	732.2	575.7	555.3	502.7	55.6	19.1	8.1	4.7	3.8	3.0
45°	773.4	578.2	537.9	516.7	63.6	19.1	11.0	3.8	3.0	2.5	1.7
47.5°	713.6	525.2	501.5	112.8	21.2	10.2	7.6	2.5	1.7	1.7	1.7
50°	540.5	485.3	399.2	27.6	13.6	7.2	5.5	1.7	1.7	1.7	1.3
52.5°	473.9	448.0	42.8	18.2	10.6	5.5	3.4	1.3	1.3	1.3	1.3
55°	433.2	284.2	25.5	14.0	8.9	5.1	2.1	1.3	1.3	1.3	0.8
57.5°	396.2	38.2	18.7	11.9	8.1	4.7	1.3	1.3	1.3	1.3	0.8
60°	336.0	27.6	15.3	10.6	7.6	4.2	1.3	1.3	1.3	1.3	1.3
62.5°	43.7	21.6	13.2	9.3	5.5	3.4	0.8	1.3	1.3	1.3	1.3
65°	31.8	17.0	11.9	6.4	3.4	1.3	0.8	1.3	1.3	1.3	1.3
67.5°	24.6	14.0	8.9	5.5	3.0	0.8	0.8	1.3	1.3	1.3	1.3
70°	19.5	11.9	7.2	4.7	2.5	0.8	0.8	1.3	1.3	1.3	1.3
72.5°	15.3	8.5	5.1	2.5	1.7	0.8	0.8	1.3	1.3	1.3	1.3
75°	11.5	6.8	3.8	2.1	0.8	0.8	0.8	1.3	1.3	1.3	1.3
77.5°	7.6	4.2	3.0	1.7	1.7	1.7	2.1	2.1	1.3	1.3	1.3
80°	5.1	3.0	2.1	2.1	2.1	1.7	2.1	2.1	1.3	2.1	1.3
82.5°	2.5	2.1	2.1	1.7	1.7	1.3	1.7	1.7	1.7	1.7	1.3
85°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.3
87.5°	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.7	1.7	1.3
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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1423.8	1425.0	1421.6	1439.9	1430.6	1431.4	1435.2	1425.5	1427.6	1420.8	1416.1
5°	1578.2	1580.7	1583.3	1584.1	1585.8	1587.9	1585.4	1584.1	1581.6	1573.1	1564.2
7.5°	1554.0	1551.0	1549.8	1551.5	1554.4	1555.7	1553.6	1556.6	1567.6	1572.2	1575.2
10°	1426.7	1413.2	1422.5	1421.2	1410.6	1446.2	1436.5	1442.0	1445.8	1484.9	1508.6
12.5°	1366.1	1374.6	1358.4	1350.4	1361.0	1368.2	1375.4	1360.1	1381.3	1371.6	1403.0
15°	1315.2	1310.1	1308.4	1308.8	1306.7	1316.9	1319.4	1322.8	1325.8	1338.9	1344.0
17.5°	1292.2	1300.7	1304.1	1306.7	1302.4	1297.8	1293.1	1286.3	1288.4	1285.0	1294.8
20°	1059.3	1030.9	1029.2	1045.8	1027.5	1037.7	1062.3	1226.9	1221.4	1285.5	1263.8
22.5°	884.1	857.4	834.5	814.5	843.0	854.9	900.7	952.4	1036.4	1023.3	1114.5
25°	722.1	712.3	706.4	703.4	705.5	704.7	714.9	739.0	777.2	867.2	983.4
27.5°	675.4	670.7	668.6	661.8	666.9	665.2	673.3	678.4	689.8	698.7	736.5
30°	638.5	633.0	629.2	621.9	627.0	627.5	630.0	643.2	647.8	655.5	667.3
32.5°	233.3	137.5	129.0	122.6	134.1	174.8	306.7	536.2	611.8	617.7	631.3
35°	22.9	19.1	17.0	17.0	17.4	19.1	25.5	67.0	122.6	473.9	593.1
37.5°	8.9	7.6	6.4	5.9	6.4	7.2	9.8	12.7	17.4	36.1	160.8
40°	3.8	3.4	3.0	3.0	3.0	3.0	3.4	4.2	6.4	11.9	18.7
42.5°	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.0	3.8	7.6
45°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1	3.4
47.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7
50°	1.3	1.3	1.3	1.3	0.8	1.3	0.8	1.3	1.3	1.3	1.3
52.5°	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3
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	1.3	1.3	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	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°	1.3	1.3	0.8	1.3	0.8	0.8	1.3	1.3	1.3	0.8	0.8
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	1.7
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.1	2.5	2.1
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.1	2.1	2.1
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1408.1	1407.6	1416.6	1423.3	1420.8	1423.3	1426.3	1426.7	1427.6	1424.2	1422.9
5°	1547.2	1534.1	1508.6	1490.4	1469.2	1430.6	1411.5	1413.6	1414.0	1412.7	1414.4
7.5°	1573.9	1572.7	1563.8	1559.9	1545.5	1517.9	1473.8	1466.2	1447.5	1435.6	1425.9
10°	1506.9	1537.5	1545.5	1559.1	1567.6	1562.5	1525.2	1519.6	1507.8	1494.2	1497.2
12.5°	1434.4	1459.4	1460.7	1534.5	1551.0	1552.7	1538.3	1545.9	1547.6	1517.1	1499.3
15°	1345.3	1357.2	1382.2	1450.9	1501.0	1532.4	1541.7	1545.9	1525.2	1523.9	1516.7
17.5°	1306.2	1313.9	1325.3	1363.9	1439.9	1486.1	1525.6	1522.6	1530.7	1524.7	1506.5
20°	1257.0	1263.4	1283.8	1303.3	1340.6	1402.1	1475.9	1481.5	1492.1	1490.8	1495.9
22.5°	1256.2	1233.7	1237.1	1252.4	1291.4	1346.6	1425.0	1443.3	1450.1	1454.7	1460.2
25°	996.6	1175.2	1207.8	1217.6	1243.0	1275.3	1367.8	1374.6	1387.3	1408.1	1423.3
27.5°	863.3	984.7	1115.3	1183.2	1199.3	1226.1	1281.2	1291.4	1334.7	1339.8	1363.5
30°	681.3	775.1	970.2	1133.6	1160.3	1179.0	1218.0	1238.4	1257.0	1277.4	1302.4
32.5°	641.0	655.9	764.1	938.0	1145.9	1131.9	1160.7	1173.0	1193.4	1211.2	1229.5
35°	604.1	614.3	637.2	768.3	933.3	1093.3	1112.8	1120.9	1132.3	1145.9	1159.0
37.5°	565.5	580.8	596.5	631.7	863.3	1062.7	1062.3	1071.6	1078.4	1089.9	1100.9
40°	102.7	533.3	558.7	581.6	669.5	847.6	1014.8	1019.0	1023.7	1030.9	1042.4
42.5°	16.5	89.1	523.5	545.6	570.6	759.0	993.2	975.8	972.8	977.9	988.1
45°	8.5	21.6	105.2	509.5	532.0	605.4	812.0	945.6	942.7	932.9	935.0
47.5°	6.4	13.6	25.9	176.1	498.1	519.7	749.2	741.2	797.6	905.8	889.2
50°	5.5	9.3	15.3	36.1	439.9	478.5	577.0	674.1	703.8	707.6	837.5
52.5°	5.1	6.4	11.0	23.3	92.5	442.5	469.2	503.2	553.2	660.5	658.0
55°	4.7	5.9	9.3	15.7	32.2	398.8	426.4	432.7	443.3	494.7	562.5
57.5°	2.5	5.5	8.9	13.6	24.2	73.0	386.9	392.0	400.5	402.6	426.8
60°	1.3	5.1	8.1	11.9	17.8	33.9	347.9	353.8	358.9	359.8	367.4
62.5°	0.8	4.7	6.8	11.0	14.8	24.2	82.3	168.0	319.5	319.5	328.4
65°	0.8	3.4	4.2	7.2	13.6	19.9	34.8	40.3	78.5	193.0	288.1
67.5°	0.8	1.3	3.8	5.9	10.2	15.3	25.5	29.7	35.6	40.7	75.5
70°	0.8	0.8	3.4	3.8	6.4	11.5	18.2	20.8	24.2	27.6	31.8
72.5°	0.8	0.8	3.0	3.0	4.2	7.6	14.0	15.3	17.4	19.5	22.5
75°	2.1	1.7	2.5	2.5	3.0	5.9	10.6	11.9	12.7	14.4	16.5
77.5°	2.1	2.1	2.1	2.1	2.1	3.8	6.8	7.6	8.9	9.8	11.5
80°	1.7	1.7	1.7	2.1	2.1	2.5	4.2	4.7	5.1	6.4	6.8
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	3.0	3.8
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7
87.5°	1.3	1.3	1.3	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3
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):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1422.5	1419.9	1417.8	1419.1	1415.3	1413.6	1414.9	1415.3	1416.1	1418.2	1418.7
5°	1418.7	1417.8	1421.6	1423.8	1422.9	1423.8	1423.8	1422.1	1419.5	1421.2	1417.4
7.5°	1416.1	1410.6	1406.4	1407.2	1403.0	1408.1	1412.7	1419.5	1421.6	1421.6	1417.4
10°	1459.8	1453.9	1430.1	1414.0	1403.4	1394.1	1416.1	1393.6	1404.2	1363.9	1410.2
12.5°	1495.9	1503.9	1493.3	1449.2	1441.6	1413.6	1429.7	1402.1	1394.1	1347.8	1362.7
15°	1510.3	1495.0	1491.6	1479.3	1462.8	1454.7	1411.5	1406.8	1393.6	1398.7	1379.2
17.5°	1497.6	1505.2	1495.0	1487.0	1470.0	1450.9	1425.0	1402.1	1383.9	1343.2	1377.5
20°	1485.3	1495.5	1464.9	1470.0	1471.7	1449.6	1436.1	1417.0	1394.1	1355.9	1326.2
22.5°	1464.9	1457.7	1460.2	1452.6	1446.2	1449.2	1430.6	1417.4	1378.8	1361.4	1321.1
25°	1431.8	1429.3	1436.1	1435.2	1419.9	1414.9	1405.5	1391.5	1376.2	1348.2	1315.2
27.5°	1377.9	1391.1	1403.0	1408.5	1400.4	1386.9	1381.8	1373.7	1363.1	1334.7	1310.1
30°	1321.1	1335.9	1349.5	1361.4	1368.6	1362.7	1358.0	1353.3	1337.2	1318.6	1291.0
32.5°	1256.2	1275.7	1294.4	1308.8	1324.5	1329.2	1325.8	1321.9	1308.4	1291.4	1269.3
35°	1181.1	1207.8	1235.0	1260.9	1267.6	1278.7	1289.7	1283.3	1276.1	1259.2	1238.8
37.5°	1117.5	1136.6	1156.1	1188.7	1212.5	1226.5	1246.0	1248.6	1236.2	1228.2	1201.5
40°	1051.7	1069.1	1097.5	1116.6	1149.3	1165.4	1186.2	1195.5	1192.6	1187.9	1164.6
42.5°	999.9	1008.4	1027.1	1044.1	1076.3	1109.4	1127.6	1137.8	1148.4	1144.6	1132.7
45°	944.8	952.4	958.8	973.6	1005.0	1034.3	1056.8	1072.1	1091.2	1100.1	1085.6
47.5°	890.1	892.2	899.8	912.1	930.8	953.3	991.0	1013.9	1031.8	1049.2	1039.8
50°	848.1	840.4	841.7	849.3	864.6	886.7	913.8	946.1	966.4	987.6	989.8
52.5°	741.2	803.1	788.2	792.5	800.5	811.2	839.6	871.4	896.4	914.7	932.9
55°	621.9	634.2	753.5	736.5	741.6	750.9	764.1	795.9	820.1	845.5	871.0
57.5°	482.4	574.0	578.7	689.0	686.4	687.3	698.3	716.5	740.7	772.5	794.2
60°	375.0	413.6	488.7	526.9	623.6	627.0	633.4	644.0	664.8	694.9	729.3
62.5°	330.9	336.0	362.7	420.0	482.8	558.7	572.3	574.0	583.3	613.5	653.3
65°	290.6	294.0	302.1	308.0	360.6	434.0	499.3	509.9	515.9	533.7	567.6
67.5°	200.2	253.3	260.5	264.7	269.8	303.8	384.8	438.7	445.5	461.2	490.9
70°	38.6	80.2	219.3	224.0	226.5	234.2	247.3	333.0	378.0	392.9	406.4
72.5°	26.3	31.0	37.3	88.2	186.7	190.9	193.9	204.9	280.8	324.1	331.3
75°	19.1	21.2	25.0	31.0	38.2	124.3	154.0	159.5	165.0	227.8	264.3
77.5°	13.6	15.3	17.0	19.9	23.3	30.1	43.3	119.2	124.7	127.7	180.3
80°	7.6	9.3	11.5	13.2	14.8	17.0	22.1	27.6	61.5	89.9	94.6
82.5°	4.2	5.1	5.9	7.2	8.1	10.2	12.3	14.8	19.5	28.8	61.1
85°	2.1	2.1	2.1	3.0	3.4	4.7	5.5	6.4	8.9	12.3	17.0
87.5°	1.3	1.3	1.7	1.7	1.7	2.1	2.1	2.1	2.5	3.8	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: P1213331

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1419.1	1417.8	1417.8	1422.9	1421.6
5°	1416.6	1415.3	1414.9	1420.4	1417.8
7.5°	1414.4	1409.8	1408.5	1413.6	1411.5
10°	1405.9	1402.6	1404.7	1403.0	1402.1
12.5°	1391.5	1389.4	1380.5	1381.3	1388.6
15°	1365.6	1374.1	1358.9	1372.4	1375.4
17.5°	1318.1	1337.2	1352.1	1360.1	1361.4
20°	1339.3	1345.7	1338.1	1338.5	1343.6
22.5°	1311.8	1314.7	1316.9	1314.3	1325.3
25°	1267.6	1256.2	1280.8	1285.9	1303.7
27.5°	1254.1	1244.7	1256.2	1255.3	1270.2
30°	1243.0	1212.9	1218.0	1226.1	1244.3
32.5°	1227.3	1179.8	1174.7	1192.6	1212.9
35°	1199.8	1154.8	1142.9	1154.4	1184.9
37.5°	1176.4	1120.0	1096.2	1111.5	1151.4
40°	1141.6	1092.9	1055.9	1069.5	1116.6
42.5°	1100.1	1069.5	1012.7	1022.0	1075.9
45°	1058.1	1030.9	970.7	975.3	1039.4
47.5°	1015.2	990.2	927.0	927.8	992.7
50°	973.2	940.1	887.9	873.1	943.1
52.5°	918.5	887.9	848.5	824.3	896.0
55°	866.7	832.4	803.5	766.2	842.5
57.5°	816.2	778.1	758.5	710.6	781.9
60°	747.1	728.9	700.0	654.2	727.2
62.5°	676.2	670.3	641.0	593.5	659.7
65°	593.5	607.5	577.4	536.7	589.7
67.5°	515.5	540.5	507.4	482.4	522.2
70°	432.3	461.2	442.5	433.6	450.5
72.5°	350.4	378.4	380.1	373.8	379.3
75°	270.7	301.6	318.6	308.8	310.1
77.5°	205.3	220.2	238.8	246.5	244.8
80°	126.8	152.7	168.0	183.7	178.2
82.5°	64.1	85.7	104.4	121.3	113.3
85°	26.7	34.4	47.9	63.2	60.7
87.5°	8.1	13.6	14.4	20.4	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)