

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: P1212980

Luminaire Tested: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212980
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

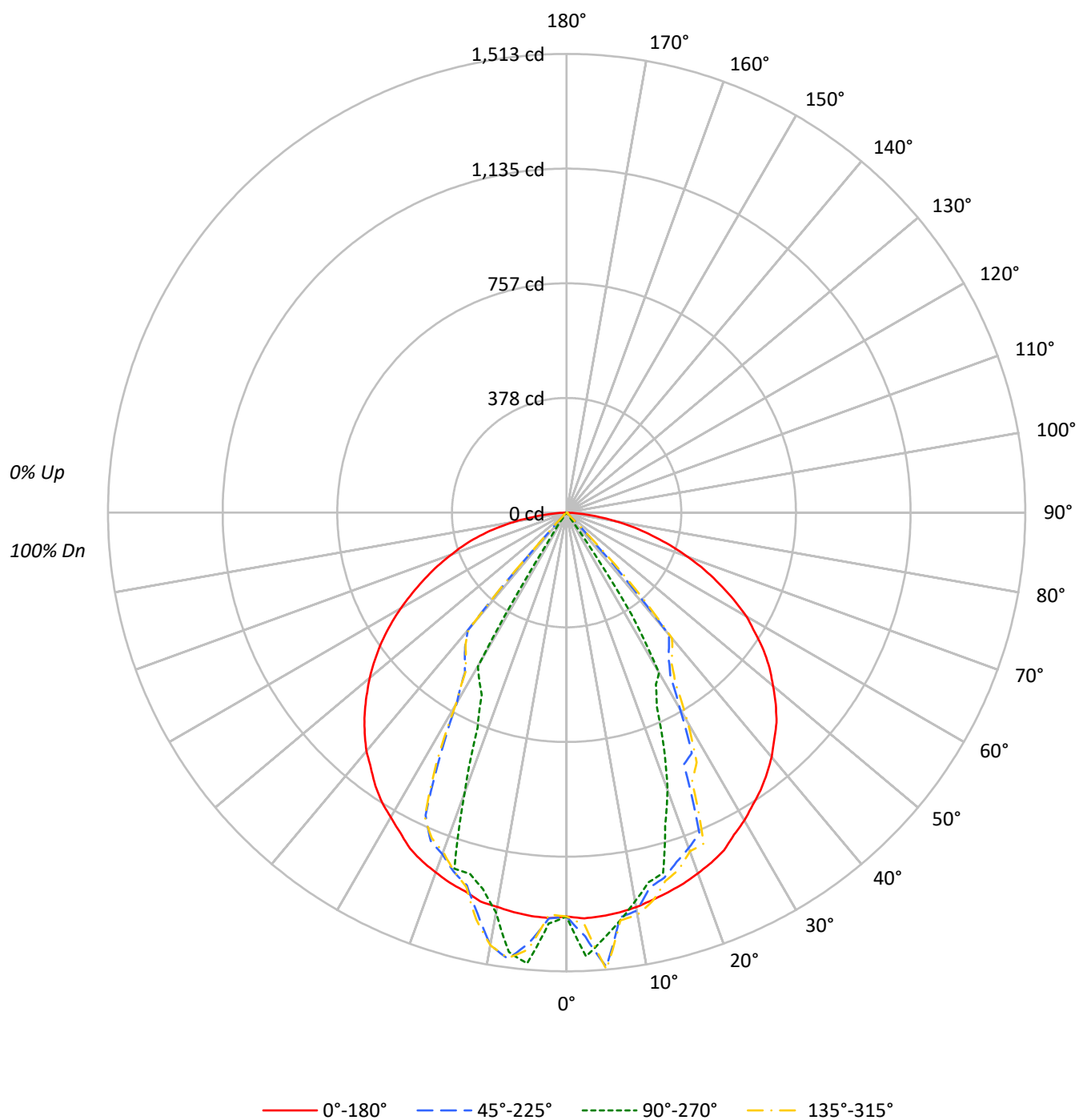
Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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
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°	21528	21528	21528	21528
5°	21557	22142	21551	23447
10°	21446	20035	21433	20614
15°	21328	18701	21275	18750
20°	21290	14729	21229	14911
25°	21287	10660	21183	10059
30°	21119	9350	20896	8988
35°	21105	206	20795	250
40°	21093	45	20588	45
45°	21069	27	20277	20
50°	20796	21	19841	21
55°	20537	15	19277	15
60°	19985	16	18422	16
65°	18740	25	17404	17
70°	17120	28	16301	28
75°	14795	31	15038	31
80°	11538	36	12197	36
85°	6187	42	6317	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 22760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	7.1
10°-20°	364.5	19.2
20°-30°	463.8	24.5
30°-40°	391.8	20.7
40°-50°	256.2	13.5
50°-60°	161.4	8.5
60°-70°	85.9	4.5
70°-80°	31.3	1.7
80°-90°	5.4	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°	962.0	50.8
0°-40°	1353.8	71.5
0°-60°	1771.4	93.5
0°-90°	1894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1332	1332	1332	1332	1332	
5°	1336	1410	1336	1493	1336	127
15°	1296	1230	1293	1233	1296	366
25°	1228	702	1222	663	1228	565
35°	1116	13	1100	16	1116	698
45°	979	2	943	1	979	753
55°	794	1	745	1	794	707
65°	556	1	516	1	556	550
75°	292	1	297	1	292	310
85°	57	1	58	1	57	72
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°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1339.6	1340.4	1340.8	1341.6	1342.8	1343.2	1344.0	1343.2	1343.2	1343.2	1343.2
5°	1336.0	1337.6	1338.8	1340.4	1343.2	1343.6	1346.8	1347.2	1348.8	1352.0	1354.4
7.5°	1330.0	1331.6	1334.0	1338.0	1342.0	1346.4	1352.0	1358.0	1366.4	1374.4	1384.4
10°	1321.2	1323.2	1326.0	1329.6	1349.2	1352.0	1364.4	1381.6	1386.4	1411.6	1430.3
12.5°	1308.4	1315.2	1322.4	1325.6	1344.4	1374.0	1415.6	1407.2	1398.0	1480.3	1479.1
15°	1296.0	1305.2	1301.6	1327.6	1344.8	1396.4	1378.8	1416.4	1485.1	1468.3	1469.1
17.5°	1282.8	1284.8	1304.8	1326.4	1357.2	1383.6	1405.2	1456.7	1470.3	1471.5	1456.7
20°	1266.0	1275.6	1304.8	1324.4	1376.4	1388.8	1435.5	1461.9	1456.3	1442.7	1417.6
22.5°	1248.9	1278.0	1307.6	1335.2	1371.6	1404.8	1427.9	1440.3	1411.2	1357.6	1328.8
25°	1228.5	1245.7	1284.4	1324.8	1370.4	1389.6	1403.2	1383.2	1345.2	1297.2	1248.9
27.5°	1196.9	1224.5	1274.0	1319.6	1360.8	1384.0	1362.0	1314.0	1252.8	1221.3	1199.3
30°	1172.5	1208.5	1249.3	1293.2	1336.0	1349.6	1293.6	1238.9	1196.9	1165.3	1160.5
32.5°	1142.9	1194.1	1232.9	1274.8	1310.8	1292.8	1238.5	1167.7	1132.9	1120.9	1125.7
35°	1116.5	1155.3	1206.1	1247.3	1273.2	1232.9	1146.9	1102.9	1086.1	1092.9	1084.2
37.5°	1085.0	1136.1	1182.9	1218.5	1209.7	1148.9	1076.2	1048.2	1050.2	1044.6	1027.8
40°	1052.2	1100.9	1149.7	1183.3	1152.5	1059.8	1011.4	1005.4	1006.6	988.6	964.6
42.5°	1013.8	1058.2	1106.9	1137.3	1071.0	998.6	965.8	966.6	956.2	931.0	918.3
45°	979.4	1020.2	1071.0	1073.8	992.2	931.8	922.2	911.9	888.7	880.3	870.7
47.5°	935.4	980.6	1022.6	1007.4	915.1	877.5	870.3	847.5	835.9	829.5	821.5
50°	888.7	934.2	972.6	929.4	842.3	833.5	809.9	791.9	783.9	777.1	769.9
52.5°	844.3	881.9	921.0	846.7	786.3	777.9	751.2	740.8	732.8	725.2	723.6
55°	793.9	827.1	853.9	767.9	732.8	713.2	694.0	686.8	679.2	675.6	681.6
57.5°	736.8	774.3	770.3	690.4	674.8	646.4	639.2	634.4	628.8	631.2	581.3
60°	685.2	714.0	694.4	633.6	607.2	588.0	581.7	578.5	581.7	532.9	468.5
62.5°	621.6	654.0	614.4	567.3	539.3	530.1	524.5	528.9	482.1	428.5	413.0
65°	555.7	590.8	532.5	496.1	478.5	470.5	470.1	432.9	387.0	366.2	366.2
67.5°	492.1	528.5	453.3	422.9	416.2	417.0	393.8	337.4	324.6	310.6	270.2
70°	424.5	456.5	374.6	356.2	352.2	349.4	293.0	277.8	262.6	225.5	222.3
72.5°	357.4	373.0	301.0	296.6	295.8	245.9	234.7	208.7	191.1	186.7	184.7
75°	292.2	287.4	237.9	241.9	203.9	186.3	168.3	153.1	150.7	149.1	37.2
77.5°	230.7	206.7	187.5	163.1	145.9	123.9	120.3	117.9	77.6	28.0	22.8
80°	167.9	133.9	124.7	105.9	90.3	86.7	88.7	27.2	21.6	18.0	15.6
82.5°	106.7	85.5	70.0	61.2	59.6	26.0	19.2	15.6	13.6	11.6	9.6
85°	57.2	38.0	35.2	29.6	17.6	12.0	10.0	7.6	6.4	5.2	4.8
87.5°	18.0	15.2	12.4	10.0	6.0	4.0	3.2	2.8	2.4	2.0	2.0
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°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1342.4	1343.2	1342.8	1344.0	1344.0	1345.6	1346.8	1348.0	1350.4	1351.6	1360.8
5°	1359.6	1361.6	1367.6	1373.2	1380.0	1382.0	1393.6	1396.4	1410.0	1411.6	1456.3
7.5°	1398.0	1405.6	1419.9	1434.3	1448.7	1457.9	1473.9	1483.9	1494.7	1504.3	1539.9
10°	1444.3	1457.1	1471.1	1485.5	1493.9	1511.5	1521.1	1522.7	1519.9	1504.3	1446.7
12.5°	1489.9	1502.7	1496.7	1499.5	1509.5	1478.3	1482.7	1460.3	1475.9	1398.8	1341.6
15°	1483.5	1482.7	1467.9	1419.9	1427.9	1368.4	1344.4	1326.0	1340.8	1332.8	1324.0
17.5°	1464.3	1427.9	1402.4	1344.8	1320.4	1303.6	1304.0	1304.4	1297.2	1304.8	1282.4
20°	1383.2	1342.4	1304.4	1284.0	1276.8	1264.8	1270.8	1264.8	1265.2	1267.6	1233.3
22.5°	1275.2	1262.8	1240.9	1247.3	1244.9	1255.6	1247.7	1235.3	1239.3	1221.3	1195.3
25°	1231.7	1217.3	1216.5	1218.9	1215.3	1210.5	1203.3	1184.5	1183.3	1177.7	1165.7
27.5°	1187.7	1188.5	1190.9	1183.7	1170.9	1161.3	1150.5	1141.3	1144.9	1138.5	1122.1
30°	1157.3	1156.9	1142.5	1136.1	1112.5	1112.9	1110.1	1104.5	1100.9	1101.3	1090.9
32.5°	1114.1	1101.7	1085.4	1077.4	1075.4	1068.2	1062.6	1063.8	1066.6	1056.6	1067.4
35°	1069.8	1044.2	1041.8	1035.0	1028.6	1023.8	1025.8	1017.8	1017.4	1016.2	928.2
37.5°	1010.2	997.8	996.6	989.4	985.0	983.8	976.2	977.4	981.0	987.4	791.5
40°	961.0	949.8	947.0	946.6	937.0	936.2	938.2	945.8	951.0	911.1	754.3
42.5°	908.3	909.1	900.3	894.7	895.9	899.5	909.1	882.7	764.7	728.8	689.6
45°	863.1	859.1	854.3	852.7	863.1	855.9	750.4	692.4	678.4	676.8	566.9
47.5°	815.9	814.7	812.7	813.9	754.7	672.8	648.8	641.2	643.6	642.0	486.9
50°	768.3	769.9	769.9	672.4	617.2	603.6	605.6	612.4	570.1	532.1	453.7
52.5°	727.2	714.8	612.4	577.3	564.9	570.9	556.5	503.3	464.9	442.5	419.7
55°	650.8	559.7	536.9	531.3	535.7	482.5	449.7	415.4	405.4	403.0	389.8
57.5°	512.1	493.7	495.7	473.3	422.5	392.6	379.4	374.6	370.2	367.0	32.0
60°	452.9	458.1	419.3	371.4	351.0	347.0	343.8	339.4	338.6	333.0	20.4
62.5°	414.6	364.6	331.0	319.0	314.2	313.0	307.0	305.0	259.0	35.6	15.2
65°	312.6	292.2	285.8	283.0	277.8	277.8	230.7	36.4	29.6	25.6	13.6
67.5°	255.0	253.4	250.3	246.7	167.9	35.2	30.8	26.8	23.2	20.4	12.0
70°	215.9	215.1	195.9	36.0	30.0	26.4	23.2	20.8	19.2	17.2	10.8
72.5°	177.1	36.0	30.4	26.4	22.8	20.8	18.8	16.8	15.2	14.0	8.8
75°	27.6	24.4	21.6	19.6	18.0	16.0	14.4	13.2	12.8	11.2	6.0
77.5°	20.0	17.2	15.6	14.0	12.4	11.2	9.6	8.4	7.6	6.4	4.4
80°	14.0	12.4	11.2	9.2	8.0	6.8	6.0	5.2	4.8	4.0	2.0
82.5°	8.0	6.8	6.0	4.8	4.4	3.6	3.2	2.8	2.8	2.0	2.0
85°	3.6	3.6	2.8	2.4	2.0	2.0	2.0	1.6	1.6	1.2	1.2
87.5°	1.6	1.6	1.6	1.6	1.6	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°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1373.6	1378.8	1388.8	1399.2	1387.6	1429.1	1425.9	1439.9	1447.5	1451.1	1459.5
5°	1495.9	1519.1	1526.7	1503.9	1490.7	1477.1	1446.3	1423.1	1425.9	1418.4	1390.8
7.5°	1493.5	1443.9	1377.2	1346.8	1344.4	1340.8	1350.4	1356.0	1356.8	1356.4	1355.6
10°	1367.2	1341.6	1337.2	1333.2	1334.8	1320.0	1313.2	1294.0	1304.4	1298.8	1300.8
12.5°	1328.8	1322.8	1299.2	1266.4	1286.0	1271.2	1262.8	1268.4	1262.0	1256.0	1254.0
15°	1306.0	1267.2	1254.0	1246.1	1240.5	1237.3	1240.1	1233.7	1231.7	1230.5	1233.3
17.5°	1258.8	1243.3	1228.9	1207.7	1208.1	1206.9	1214.9	1226.9	1227.7	1166.1	1110.5
20°	1221.7	1208.9	1190.5	1177.3	1195.3	1163.3	1039.8	981.0	971.8	971.8	973.4
22.5°	1192.1	1163.7	1164.9	1144.1	975.8	941.4	942.2	945.8	929.4	873.5	867.5
25°	1151.7	1147.3	1059.8	915.9	917.1	890.3	849.1	791.1	728.4	728.4	718.0
27.5°	1121.3	1028.2	900.3	894.3	804.3	747.6	712.4	659.2	652.0	645.2	646.0
30°	1095.3	869.9	873.1	747.6	681.2	634.0	631.2	622.4	618.0	616.8	612.4
32.5°	865.9	847.1	730.8	636.4	610.4	602.8	599.2	589.2	588.8	581.3	528.5
35°	811.9	743.6	611.6	586.0	578.5	571.3	565.3	379.4	44.8	18.0	15.6
37.5°	750.4	621.2	565.7	554.1	546.9	404.2	40.4	14.0	10.0	7.2	6.4
40°	636.0	554.9	537.3	524.5	216.3	14.0	8.8	6.8	4.0	3.6	3.2
42.5°	536.5	522.9	504.1	153.5	16.0	6.8	4.4	3.2	2.8	2.8	2.4
45°	502.1	490.1	203.1	15.2	10.0	3.2	2.8	2.8	2.4	1.6	1.6
47.5°	470.1	413.8	18.4	9.6	6.4	2.8	2.4	1.6	1.6	1.6	1.2
50°	436.1	22.8	12.8	7.2	4.0	1.6	1.6	1.6	1.6	1.2	1.2
52.5°	81.6	16.0	10.4	6.4	2.0	1.6	1.6	1.6	1.2	1.2	1.2
55°	19.2	12.8	9.6	5.6	1.6	1.6	1.6	1.2	1.2	1.2	0.8
57.5°	14.4	9.6	7.6	5.2	1.6	1.2	1.2	1.2	1.2	1.2	0.8
60°	12.0	6.8	6.0	4.8	1.2	1.2	1.2	1.2	1.2	1.2	0.8
62.5°	8.4	5.6	4.4	3.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	6.8	4.4	3.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	6.0	3.6	2.4	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	4.8	1.2	1.2	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	4.0	1.2	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	4.0	2.0	0.8	0.8	1.2	1.2	1.6	1.6	1.2	1.2	1.2
77.5°	2.8	2.0	0.8	0.8	1.2	1.2	1.6	1.6	1.2	1.2	1.2
80°	1.6	2.0	0.8	1.2	1.2	2.4	2.8	1.6	1.2	1.2	1.2
82.5°	1.6	2.0	2.4	2.4	1.2	2.0	2.4	2.0	1.6	1.2	1.2
85°	1.6	1.2	1.6	2.0	1.2	2.0	2.0	1.6	1.6	1.2	1.2
87.5°	0.8	1.2	1.2	1.6	1.6	1.6	2.0	1.6	1.6	1.6	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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1463.5	1465.1	1439.9	1431.1	1438.7	1437.1	1430.3	1405.2	1402.4	1385.6	1361.2
5°	1398.8	1409.6	1396.4	1419.2	1408.4	1419.2	1451.9	1467.1	1491.9	1507.1	1512.7
7.5°	1353.6	1356.0	1356.0	1358.0	1360.0	1360.4	1358.0	1356.4	1349.6	1341.2	1356.4
10°	1298.8	1301.6	1306.4	1305.6	1305.2	1313.6	1315.6	1332.8	1332.0	1335.2	1346.8
12.5°	1270.4	1248.9	1268.4	1263.2	1270.4	1259.2	1280.0	1276.4	1277.6	1287.2	1312.0
15°	1223.3	1230.1	1234.9	1234.9	1237.7	1235.3	1232.9	1249.3	1259.2	1259.6	1258.0
17.5°	1132.5	1081.0	1133.7	1120.1	1228.5	1231.3	1222.1	1214.5	1214.5	1220.5	1233.3
20°	972.2	973.4	973.8	979.0	985.4	985.0	985.4	1142.9	1217.7	1200.5	1188.9
22.5°	852.3	837.5	865.1	863.1	897.5	935.4	971.8	968.2	970.6	1081.8	1181.7
25°	683.2	702.4	686.8	693.6	732.4	777.5	805.5	878.7	958.2	952.6	978.6
27.5°	643.2	638.0	645.2	645.2	650.4	656.4	672.0	713.2	783.9	858.3	928.6
30°	605.2	609.6	610.4	617.6	621.6	625.6	628.0	643.6	659.6	711.2	797.9
32.5°	454.5	398.6	524.5	558.5	587.2	594.0	598.8	605.2	616.8	624.4	668.0
35°	13.2	13.2	14.0	16.0	20.4	137.5	523.7	577.3	584.8	594.4	602.4
37.5°	6.4	4.8	5.6	6.0	7.2	10.0	14.4	44.8	498.5	563.7	572.5
40°	2.8	2.8	2.8	2.8	3.2	4.0	6.0	10.0	15.2	401.0	540.9
42.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.8	3.6	7.2	17.2	283.8
45°	1.6	1.6	1.2	1.6	1.6	2.0	2.4	2.4	3.2	10.8	19.6
47.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.4	7.2	10.4
50°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.6	7.2
52.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	6.4
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	5.6
57.5°	0.8	0.8	0.8	0.8	0.8	1.2	0.8	0.8	1.2	1.2	5.2
60°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	4.8
62.5°	1.2	1.2	0.8	1.2	0.8	0.8	1.2	1.2	1.2	1.2	3.2
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	1.6	1.6	0.8	0.8	0.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.4	2.0	2.0	0.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.0	2.0	2.0	2.8
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	2.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1363.2	1349.6	1345.2	1336.0	1335.2	1336.0	1334.0	1331.2	1332.8	1330.0	1327.6
5°	1515.9	1479.5	1455.9	1424.3	1380.8	1371.2	1368.8	1355.2	1350.4	1348.8	1342.4
7.5°	1392.4	1458.7	1498.7	1512.3	1461.1	1449.1	1435.1	1423.9	1413.2	1392.8	1380.4
10°	1337.6	1340.8	1379.2	1423.9	1496.7	1506.7	1514.3	1489.9	1483.1	1431.1	1419.9
12.5°	1324.8	1325.2	1329.6	1356.8	1414.0	1420.3	1447.1	1461.5	1479.1	1489.1	1481.1
15°	1266.4	1298.8	1322.8	1325.2	1330.4	1341.6	1349.6	1399.6	1420.7	1477.5	1474.3
17.5°	1239.3	1249.7	1284.4	1312.8	1308.0	1304.0	1310.4	1317.2	1337.6	1394.4	1393.6
20°	1194.1	1227.3	1246.1	1275.6	1302.4	1303.6	1296.4	1292.4	1284.4	1293.6	1302.0
22.5°	1174.9	1180.1	1215.3	1236.1	1266.4	1277.2	1278.8	1279.2	1274.8	1270.0	1267.6
25°	1172.9	1156.5	1174.5	1200.5	1222.9	1234.5	1247.7	1252.1	1250.5	1250.5	1248.1
27.5°	959.8	1151.3	1141.7	1158.9	1186.1	1194.1	1200.9	1214.5	1222.9	1228.9	1231.7
30°	914.3	948.6	1116.1	1118.5	1146.1	1145.3	1152.9	1164.1	1174.9	1188.9	1192.5
32.5°	808.7	893.1	1021.8	1078.2	1106.9	1109.7	1113.7	1116.9	1126.9	1142.5	1156.1
35°	648.0	813.5	875.5	1059.0	1064.2	1069.8	1072.2	1079.8	1083.0	1089.3	1101.3
37.5°	586.4	672.4	839.9	915.9	1015.0	1019.8	1032.6	1035.8	1041.0	1046.2	1055.4
40°	550.9	574.5	699.2	817.9	975.4	978.6	983.0	991.0	991.4	997.4	1005.8
42.5°	522.5	537.7	574.1	781.1	947.4	947.0	936.6	941.8	944.2	950.6	962.2
45°	417.4	504.5	527.7	638.0	754.3	808.7	913.1	895.9	895.5	897.9	910.3
47.5°	21.2	474.5	490.9	526.5	712.4	714.4	728.0	842.3	859.9	854.3	855.5
50°	14.4	32.8	457.3	473.7	614.0	663.6	673.6	678.8	744.8	818.3	806.3
52.5°	11.2	18.8	280.2	439.7	498.9	535.3	599.6	636.4	640.4	670.0	770.3
55°	10.0	14.4	30.4	405.8	424.1	432.1	469.7	534.1	586.0	601.6	602.8
57.5°	8.8	13.2	20.8	183.5	385.8	387.4	393.8	416.2	462.9	505.7	554.1
60°	8.0	11.6	16.4	31.6	350.6	354.6	355.8	361.8	367.4	396.6	452.1
62.5°	4.8	9.2	14.4	22.8	277.4	318.6	318.2	322.2	327.4	330.6	341.8
65°	4.0	7.2	12.4	19.2	34.0	42.4	257.4	286.2	289.4	293.8	295.8
67.5°	3.6	6.4	9.2	15.2	25.6	29.2	33.6	41.6	227.1	255.8	259.8
70°	3.2	4.4	7.6	12.8	20.8	22.4	25.2	28.8	34.0	42.0	205.5
72.5°	2.0	3.2	5.2	9.2	16.0	18.0	19.6	22.0	24.4	29.2	33.6
75°	0.8	2.4	4.4	6.8	12.4	13.6	14.8	16.4	18.4	21.6	24.0
77.5°	0.8	2.0	3.6	4.8	8.0	9.2	10.8	12.0	13.6	15.2	17.6
80°	2.8	1.6	2.4	3.6	5.6	6.0	6.8	7.6	8.8	10.0	11.6
82.5°	2.0	2.4	2.8	2.4	2.8	3.6	4.0	4.8	5.2	6.0	6.4
85°	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.8	3.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6
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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1327.6	1326.8	1324.4	1324.4	1324.0	1325.6	1326.8	1328.0	1327.6	1330.0	1327.6
5°	1337.6	1335.6	1332.0	1328.8	1327.6	1328.4	1327.2	1328.4	1326.8	1328.8	1325.2
7.5°	1365.2	1358.4	1344.4	1338.8	1331.6	1331.2	1327.6	1326.8	1324.4	1324.4	1320.0
10°	1414.0	1381.2	1377.2	1360.4	1354.4	1325.2	1331.6	1320.8	1319.6	1314.4	1312.4
12.5°	1453.9	1428.3	1420.7	1406.0	1389.2	1330.0	1343.2	1320.0	1318.8	1308.4	1297.6
15°	1454.7	1469.5	1448.7	1408.0	1404.4	1363.6	1336.8	1328.8	1318.4	1287.2	1292.4
17.5°	1408.0	1441.9	1451.9	1443.1	1417.6	1390.0	1352.4	1336.4	1305.2	1291.2	1281.6
20°	1332.0	1366.4	1409.2	1412.0	1427.9	1408.4	1359.2	1333.2	1295.6	1271.2	1263.2
22.5°	1271.6	1296.8	1346.0	1368.8	1388.4	1395.2	1364.0	1325.6	1278.8	1255.2	1250.5
25°	1239.7	1245.3	1260.0	1286.8	1330.0	1361.2	1365.6	1324.8	1300.4	1248.9	1221.7
27.5°	1228.1	1223.3	1217.3	1230.9	1263.2	1301.2	1326.4	1333.2	1272.4	1223.3	1196.1
30°	1198.5	1201.3	1192.1	1187.3	1208.5	1247.7	1292.4	1303.6	1256.8	1206.1	1174.9
32.5°	1162.1	1166.9	1168.5	1160.1	1155.7	1182.9	1231.3	1258.0	1255.6	1181.7	1146.9
35°	1116.5	1130.1	1133.7	1134.1	1126.9	1122.5	1150.5	1206.1	1227.3	1170.5	1120.1
37.5°	1068.6	1072.6	1092.1	1097.3	1097.3	1084.2	1104.9	1149.3	1178.9	1145.3	1087.3
40°	1008.6	1021.4	1039.8	1049.0	1058.2	1059.4	1047.8	1079.0	1127.7	1119.3	1056.6
42.5°	965.0	973.4	984.6	997.0	1015.8	1020.6	1008.6	1014.2	1065.0	1086.9	1016.6
45°	914.3	925.4	928.6	942.2	961.8	975.8	975.4	963.8	1004.6	1031.8	987.4
47.5°	862.3	873.1	878.7	885.5	899.9	917.9	927.8	922.6	930.6	983.8	948.6
50°	808.7	814.7	825.9	833.5	843.1	853.5	877.5	882.3	871.1	913.5	905.9
52.5°	757.9	759.9	767.5	775.1	787.9	795.5	814.7	829.1	828.3	840.7	858.3
55°	718.4	709.6	711.2	717.2	725.6	737.2	748.0	770.3	777.9	780.3	808.3
57.5°	561.3	651.6	659.6	659.2	669.2	674.4	684.4	699.2	726.4	720.4	751.6
60°	510.1	520.1	595.6	604.4	608.0	612.8	624.8	638.4	658.4	671.2	684.8
62.5°	389.0	449.7	472.5	539.3	549.7	552.5	560.5	566.9	587.6	616.8	611.2
65°	301.0	327.0	396.6	423.7	480.5	487.7	498.9	505.7	511.7	545.3	546.9
67.5°	260.2	264.2	283.0	335.4	371.4	426.9	433.7	439.7	448.9	472.9	487.7
70°	222.3	227.1	232.3	236.7	283.4	320.2	371.8	373.8	379.8	395.8	429.3
72.5°	42.0	189.9	193.1	195.9	201.1	225.5	274.6	314.6	317.0	324.6	355.4
75°	28.4	33.2	45.6	156.7	161.9	163.5	171.9	221.9	258.6	260.2	273.8
77.5°	20.4	22.8	27.6	32.8	83.5	125.5	127.5	136.7	174.7	202.3	204.7
80°	14.0	15.6	18.4	20.8	25.6	33.6	92.7	95.5	100.3	138.3	145.5
82.5°	8.0	9.2	10.8	13.2	15.2	19.2	24.8	32.0	65.2	69.6	92.3
85°	4.0	4.4	5.2	6.4	7.6	9.2	12.4	15.2	20.8	37.6	38.8
87.5°	2.0	2.0	2.0	2.0	3.2	3.6	4.4	5.6	7.2	10.8	14.0
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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1328.0	1333.6	1338.4	1339.6	1339.6	1340.4	1341.6	1342.4	1343.2	1344.0	1343.2
5°	1325.6	1331.6	1335.6	1336.8	1336.8	1339.2	1341.2	1343.6	1344.8	1344.8	1344.0
7.5°	1319.6	1324.0	1329.2	1332.4	1332.8	1336.8	1340.4	1340.0	1341.6	1342.4	1344.4
10°	1311.6	1311.6	1320.4	1322.8	1324.8	1329.2	1330.4	1332.8	1338.4	1339.2	1344.4
12.5°	1307.6	1303.6	1314.0	1315.2	1322.0	1316.4	1323.6	1326.0	1320.4	1328.0	1318.0
15°	1289.6	1294.4	1292.8	1296.4	1308.4	1302.0	1321.6	1315.2	1329.6	1312.4	1342.8
17.5°	1274.8	1274.0	1280.4	1283.6	1286.0	1299.6	1304.8	1312.0	1317.6	1312.8	1324.8
20°	1264.0	1257.6	1262.4	1266.0	1274.4	1284.8	1288.0	1277.2	1296.0	1328.0	1335.6
22.5°	1243.7	1239.3	1244.9	1244.9	1257.6	1256.0	1268.0	1261.2	1278.8	1316.0	1354.8
25°	1216.1	1216.5	1222.5	1229.7	1232.1	1250.1	1256.4	1265.2	1287.2	1331.6	1355.2
27.5°	1188.1	1185.7	1189.3	1204.1	1216.5	1229.7	1231.7	1261.6	1291.6	1322.0	1342.8
30°	1160.1	1157.7	1160.1	1170.9	1185.7	1194.5	1216.5	1256.4	1284.4	1305.2	1324.8
32.5°	1130.1	1127.7	1133.3	1141.3	1167.3	1168.5	1212.1	1249.7	1271.6	1286.8	1283.2
35°	1098.1	1094.9	1100.1	1112.5	1136.5	1145.3	1190.9	1218.9	1243.7	1250.9	1234.1
37.5°	1059.8	1054.2	1060.6	1077.8	1102.9	1128.5	1166.5	1198.9	1212.1	1192.9	1172.9
40°	1019.8	1015.8	1027.0	1035.8	1065.4	1100.9	1144.5	1167.3	1158.9	1136.9	1114.9
42.5°	984.2	975.8	985.8	1002.6	1036.2	1076.6	1111.7	1124.5	1104.5	1072.2	1046.6
45°	940.6	930.6	942.6	965.0	1001.0	1047.0	1074.6	1070.2	1036.2	1008.2	973.0
47.5°	895.1	883.1	895.1	921.8	962.2	1011.0	1031.0	1011.0	968.2	933.0	904.7
50°	850.3	836.3	847.9	888.3	927.8	965.4	965.0	926.2	900.7	862.3	837.5
52.5°	805.9	785.9	797.5	841.5	881.1	923.8	892.3	856.3	825.5	791.9	783.9
55°	751.2	729.6	745.2	809.1	839.5	864.7	814.3	782.7	752.3	735.6	725.6
57.5°	699.2	675.6	689.2	764.7	787.1	793.5	747.2	702.4	684.4	678.8	664.4
60°	645.6	618.8	631.6	718.8	734.4	708.4	662.8	628.0	624.4	613.2	602.0
62.5°	594.4	564.9	572.9	661.6	668.8	621.6	579.7	570.5	561.7	550.5	544.5
65°	535.7	504.9	516.1	600.8	594.0	533.3	509.7	507.7	496.1	486.9	495.7
67.5°	481.7	445.3	460.9	534.5	503.7	454.1	444.5	439.7	430.5	435.7	343.4
70°	422.5	383.0	404.2	462.9	417.4	384.6	381.0	373.8	374.2	297.4	250.6
72.5°	356.6	322.2	353.0	384.6	330.2	320.6	315.4	314.6	253.8	206.3	194.7
75°	298.6	263.8	297.0	309.0	263.0	256.6	256.2	211.9	166.7	159.1	155.5
77.5°	233.1	206.3	237.9	219.9	201.9	194.7	174.7	131.1	125.5	120.3	45.2
80°	157.1	159.1	177.5	151.5	143.9	122.7	96.7	92.7	80.0	32.0	25.2
82.5°	95.5	119.9	113.1	94.7	92.7	66.8	61.2	31.2	23.2	18.4	16.0
85°	49.6	60.8	58.4	51.6	38.4	34.4	19.2	14.8	12.0	9.2	7.6
87.5°	16.8	22.4	21.6	17.2	13.2	10.4	6.8	5.6	4.0	3.2	2.8
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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1342.4	1342.4	1341.6	1342.4	1342.8	1342.0	1342.0	1342.8	1343.2	1343.6	1345.6
5°	1344.4	1345.2	1346.4	1348.8	1349.2	1354.0	1356.0	1357.2	1358.4	1358.8	1356.0
7.5°	1348.8	1351.6	1354.0	1353.6	1350.8	1343.2	1340.8	1338.8	1342.4	1351.6	1362.4
10°	1352.8	1340.0	1316.0	1348.8	1338.8	1348.0	1375.2	1381.2	1399.6	1425.5	1433.1
12.5°	1325.2	1360.4	1368.0	1331.2	1399.2	1374.0	1404.0	1430.3	1437.9	1464.3	1448.3
15°	1354.8	1372.0	1383.6	1420.3	1416.4	1437.9	1446.3	1441.1	1442.3	1449.1	1467.1
17.5°	1354.4	1388.8	1396.4	1421.1	1437.9	1438.3	1435.9	1433.5	1439.9	1445.1	1434.3
20°	1377.6	1388.8	1403.6	1413.6	1416.8	1420.7	1428.3	1422.3	1410.4	1398.8	1394.0
22.5°	1366.0	1391.2	1404.0	1405.6	1403.6	1391.2	1380.0	1363.2	1357.6	1351.6	1353.6
25°	1368.4	1380.0	1378.4	1372.0	1363.6	1340.4	1334.8	1327.6	1316.8	1290.8	1267.2
27.5°	1351.2	1345.2	1338.0	1322.4	1307.2	1294.8	1280.8	1257.6	1238.5	1210.5	1200.1
30°	1322.4	1298.4	1280.8	1271.6	1256.8	1236.1	1214.9	1186.5	1162.1	1156.5	1151.3
32.5°	1267.2	1243.7	1229.3	1206.9	1181.7	1156.9	1132.5	1121.3	1116.1	1116.9	1112.1
35°	1210.9	1190.1	1168.5	1134.9	1116.1	1091.3	1082.6	1080.2	1075.4	1070.2	1064.6
37.5°	1150.9	1126.5	1094.1	1074.2	1055.4	1045.4	1041.0	1037.4	1029.0	1019.8	1013.4
40°	1092.9	1049.0	1031.0	1011.4	1005.8	1001.4	995.0	986.2	974.6	973.0	970.2
42.5°	1015.4	983.8	968.2	964.2	957.4	949.8	944.2	934.6	929.8	933.0	935.4
45°	941.8	925.8	920.6	915.9	903.1	892.3	888.7	885.5	889.5	907.1	865.1
47.5°	882.3	875.9	869.5	861.5	849.5	841.5	845.1	848.3	851.9	722.8	659.6
50°	830.7	821.9	811.9	803.1	795.9	795.1	813.9	757.5	634.4	631.2	567.3
52.5°	774.3	761.1	755.1	750.0	753.1	765.1	633.2	587.6	563.7	489.7	456.9
55°	713.6	702.0	702.0	706.8	689.6	558.9	552.1	477.3	432.1	419.3	414.2
57.5°	652.8	651.6	658.4	602.0	507.3	486.5	409.0	392.6	385.4	383.8	375.4
60°	597.2	608.4	509.3	468.5	407.4	367.4	356.2	354.2	346.6	343.8	336.2
62.5°	552.9	458.5	426.9	348.6	328.2	323.0	317.0	314.2	307.4	271.4	79.6
65°	399.4	377.4	306.2	293.0	291.4	283.8	281.4	253.0	59.6	40.0	34.0
67.5°	301.4	267.4	258.2	255.8	248.3	233.1	69.2	39.6	34.0	29.6	26.0
70°	231.5	225.5	218.7	213.1	62.8	39.2	34.0	28.8	24.8	22.0	20.0
72.5°	189.5	185.5	107.9	41.2	33.6	28.4	25.2	22.0	19.2	17.6	16.0
75°	148.3	41.2	34.0	28.4	24.4	20.8	18.4	16.4	14.8	13.6	12.4
77.5°	33.6	27.2	23.2	19.6	17.6	15.6	14.0	12.0	10.8	9.6	8.0
80°	20.8	18.0	15.2	14.0	12.0	10.0	8.8	8.0	6.4	6.0	5.2
82.5°	13.6	10.8	9.6	8.0	6.4	6.0	5.2	4.0	3.6	3.2	2.8
85°	6.0	5.2	4.4	3.6	2.8	2.4	2.0	1.6	1.6	1.6	1.6
87.5°	2.0	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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1346.4	1353.6	1360.4	1358.4	1351.2	1340.0	1336.8	1332.4	1335.6	1342.4	1345.2
5°	1356.0	1352.0	1366.4	1387.6	1421.9	1425.1	1449.1	1454.7	1473.9	1485.9	1485.5
7.5°	1369.6	1426.3	1449.9	1475.5	1487.1	1484.3	1487.9	1485.1	1480.7	1478.7	1476.3
10°	1438.7	1481.9	1490.7	1490.7	1472.7	1448.3	1437.9	1419.9	1384.0	1384.8	1378.8
12.5°	1479.1	1494.3	1473.5	1455.9	1383.6	1355.6	1325.2	1310.8	1302.4	1289.6	1294.4
15°	1457.9	1436.3	1423.9	1367.2	1322.8	1272.4	1273.2	1264.4	1255.2	1256.0	1250.1
17.5°	1426.7	1409.6	1321.6	1282.4	1260.8	1241.3	1237.7	1226.1	1220.1	1218.1	1217.7
20°	1384.0	1322.0	1256.4	1246.9	1220.9	1198.5	1194.9	1198.5	1216.9	1184.1	1073.0
22.5°	1334.0	1244.9	1225.7	1198.5	1180.9	1172.1	1194.1	1094.1	943.0	961.4	941.8
25°	1249.3	1210.5	1177.7	1156.9	1154.9	1100.9	917.5	898.3	801.1	749.2	690.8
27.5°	1187.3	1170.5	1136.1	1132.5	1106.5	900.3	804.7	699.2	660.4	654.4	641.6
30°	1149.7	1125.7	1104.9	1014.2	883.1	724.8	645.6	630.8	624.0	616.8	605.6
32.5°	1104.5	1081.8	1091.7	852.7	704.0	624.0	608.0	597.2	584.8	580.1	539.7
35°	1058.6	1048.2	853.1	716.8	605.2	586.0	574.1	562.9	447.7	108.3	36.8
37.5°	1009.4	1007.0	766.7	594.8	566.9	548.9	514.9	106.3	25.2	17.2	12.8
40°	971.0	767.1	606.0	557.7	534.9	506.5	71.2	17.6	11.2	6.8	4.4
42.5°	945.4	690.0	542.5	523.3	473.7	52.4	18.0	7.6	4.4	3.6	2.8
45°	728.8	544.9	506.9	486.9	60.0	18.0	10.4	3.6	2.8	2.4	1.6
47.5°	672.4	494.9	472.5	106.3	20.0	9.6	7.2	2.4	1.6	1.6	1.6
50°	509.3	457.3	376.2	26.0	12.8	6.8	5.2	1.6	1.6	1.6	1.2
52.5°	446.5	422.1	40.4	17.2	10.0	5.2	3.2	1.2	1.2	1.2	1.2
55°	408.2	267.8	24.0	13.2	8.4	4.8	2.0	1.2	1.2	1.2	0.8
57.5°	373.4	36.0	17.6	11.2	7.6	4.4	1.2	1.2	1.2	1.2	0.8
60°	316.6	26.0	14.4	10.0	7.2	4.0	1.2	1.2	1.2	1.2	1.2
62.5°	41.2	20.4	12.4	8.8	5.2	3.2	0.8	1.2	1.2	1.2	1.2
65°	30.0	16.0	11.2	6.0	3.2	1.2	0.8	1.2	1.2	1.2	1.2
67.5°	23.2	13.2	8.4	5.2	2.8	0.8	0.8	1.2	1.2	1.2	1.2
70°	18.4	11.2	6.8	4.4	2.4	0.8	0.8	1.2	1.2	1.2	1.2
72.5°	14.4	8.0	4.8	2.4	1.6	0.8	0.8	1.2	1.2	1.2	1.2
75°	10.8	6.4	3.6	2.0	0.8	0.8	0.8	1.2	1.2	1.2	1.2
77.5°	7.2	4.0	2.8	1.6	1.6	1.6	2.0	2.0	1.2	1.2	1.2
80°	4.8	2.8	2.0	2.0	2.0	1.6	2.0	2.0	1.2	2.0	1.2
82.5°	2.4	2.0	2.0	1.6	1.6	1.2	1.6	1.6	1.6	1.6	1.2
85°	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.2
87.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1341.6	1342.8	1339.6	1356.8	1348.0	1348.8	1352.4	1343.2	1345.2	1338.8	1334.4
5°	1487.1	1489.5	1491.9	1492.7	1494.3	1496.3	1493.9	1492.7	1490.3	1482.3	1473.9
7.5°	1464.3	1461.5	1460.3	1461.9	1464.7	1465.9	1463.9	1466.7	1477.1	1481.5	1484.3
10°	1344.4	1331.6	1340.4	1339.2	1329.2	1362.8	1353.6	1358.8	1362.4	1399.2	1421.5
12.5°	1287.2	1295.2	1280.0	1272.4	1282.4	1289.2	1296.0	1281.6	1301.6	1292.4	1322.0
15°	1239.3	1234.5	1232.9	1233.3	1231.3	1240.9	1243.3	1246.5	1249.3	1261.6	1266.4
17.5°	1217.7	1225.7	1228.9	1231.3	1227.3	1222.9	1218.5	1212.1	1214.1	1210.9	1220.1
20°	998.2	971.4	969.8	985.4	968.2	977.8	1001.0	1156.1	1150.9	1211.3	1190.9
22.5°	833.1	807.9	786.3	767.5	794.3	805.5	848.7	897.5	976.6	964.2	1050.2
25°	680.4	671.2	665.6	662.8	664.8	664.0	673.6	696.4	732.4	817.1	926.6
27.5°	636.4	632.0	630.0	623.6	628.4	626.8	634.4	639.2	650.0	658.4	694.0
30°	601.6	596.4	592.8	586.0	590.8	591.2	593.6	606.0	610.4	617.6	628.8
32.5°	219.9	129.5	121.5	115.5	126.3	164.7	289.0	505.3	576.5	582.1	594.8
35°	21.6	18.0	16.0	16.0	16.4	18.0	24.0	63.2	115.5	446.5	558.9
37.5°	8.4	7.2	6.0	5.6	6.0	6.8	9.2	12.0	16.4	34.0	151.5
40°	3.6	3.2	2.8	2.8	2.8	2.8	3.2	4.0	6.0	11.2	17.6
42.5°	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.8	3.6	7.2
45°	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	3.2
47.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
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	2.4	2.4	1.6
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.4	2.0
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.0	2.0
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1326.8	1326.4	1334.8	1341.2	1338.8	1341.2	1344.0	1344.4	1345.2	1342.0	1340.8
5°	1457.9	1445.5	1421.5	1404.4	1384.4	1348.0	1330.0	1332.0	1332.4	1331.2	1332.8
7.5°	1483.1	1481.9	1473.5	1469.9	1456.3	1430.3	1388.8	1381.6	1364.0	1352.8	1343.6
10°	1419.9	1448.7	1456.3	1469.1	1477.1	1472.3	1437.1	1431.9	1420.7	1408.0	1410.8
12.5°	1351.6	1375.2	1376.4	1445.9	1461.5	1463.1	1449.5	1456.7	1458.3	1429.5	1412.8
15°	1267.6	1278.8	1302.4	1367.2	1414.4	1443.9	1452.7	1456.7	1437.1	1435.9	1429.1
17.5°	1230.9	1238.1	1248.9	1285.2	1356.8	1400.4	1437.5	1434.7	1442.3	1436.7	1419.6
20°	1184.5	1190.5	1209.7	1228.1	1263.2	1321.2	1390.8	1396.0	1406.0	1404.8	1409.6
22.5°	1183.7	1162.5	1165.7	1180.1	1216.9	1268.8	1342.8	1360.0	1366.4	1370.8	1376.0
25°	939.0	1107.3	1138.1	1147.3	1171.3	1201.7	1288.8	1295.2	1307.2	1326.8	1341.2
27.5°	813.5	927.8	1051.0	1114.9	1130.1	1155.3	1207.3	1216.9	1257.6	1262.4	1284.8
30°	642.0	730.4	914.3	1068.2	1093.3	1110.9	1147.7	1166.9	1184.5	1203.7	1227.3
32.5°	604.0	618.0	720.0	883.9	1079.8	1066.6	1093.7	1105.3	1124.5	1141.3	1158.5
35°	569.3	578.9	600.4	724.0	879.5	1030.2	1048.6	1056.2	1067.0	1079.8	1092.1
37.5°	532.9	547.3	562.1	595.2	813.5	1001.4	1001.0	1009.8	1016.2	1027.0	1037.4
40°	96.7	502.5	526.5	548.1	630.8	798.7	956.2	960.2	964.6	971.4	982.2
42.5°	15.6	83.9	493.3	514.1	537.7	715.2	935.8	919.4	916.7	921.4	931.0
45°	8.0	20.4	99.1	480.1	501.3	570.5	765.1	891.1	888.3	879.1	881.1
47.5°	6.0	12.8	24.4	165.9	469.3	489.7	706.0	698.4	751.6	853.5	837.9
50°	5.2	8.8	14.4	34.0	414.6	450.9	543.7	635.2	663.2	666.8	789.1
52.5°	4.8	6.0	10.4	22.0	87.1	417.0	442.1	474.1	521.3	622.4	620.0
55°	4.4	5.6	8.8	14.8	30.4	375.8	401.8	407.8	417.7	466.1	530.1
57.5°	2.4	5.2	8.4	12.8	22.8	68.8	364.6	369.4	377.4	379.4	402.2
60°	1.2	4.8	7.6	11.2	16.8	32.0	327.8	333.4	338.2	339.0	346.2
62.5°	0.8	4.4	6.4	10.4	14.0	22.8	77.6	158.3	301.0	301.0	309.4
65°	0.8	3.2	4.0	6.8	12.8	18.8	32.8	38.0	74.0	181.9	271.4
67.5°	0.8	1.2	3.6	5.6	9.6	14.4	24.0	28.0	33.6	38.4	71.2
70°	0.8	0.8	3.2	3.6	6.0	10.8	17.2	19.6	22.8	26.0	30.0
72.5°	0.8	0.8	2.8	2.8	4.0	7.2	13.2	14.4	16.4	18.4	21.2
75°	2.0	1.6	2.4	2.4	2.8	5.6	10.0	11.2	12.0	13.6	15.6
77.5°	2.0	2.0	2.0	2.0	2.0	3.6	6.4	7.2	8.4	9.2	10.8
80°	1.6	1.6	1.6	2.0	2.0	2.4	4.0	4.4	4.8	6.0	6.4
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.8	3.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6
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

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CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1340.4	1338.0	1336.0	1337.2	1333.6	1332.0	1333.2	1333.6	1334.4	1336.4	1336.8
5°	1336.8	1336.0	1339.6	1341.6	1340.8	1341.6	1341.6	1340.0	1337.6	1339.2	1335.6
7.5°	1334.4	1329.2	1325.2	1326.0	1322.0	1326.8	1331.2	1337.6	1339.6	1339.6	1335.6
10°	1375.6	1370.0	1347.6	1332.4	1322.4	1313.6	1334.4	1313.2	1323.2	1285.2	1328.8
12.5°	1409.6	1417.2	1407.2	1365.6	1358.4	1332.0	1347.2	1321.2	1313.6	1270.0	1284.0
15°	1423.1	1408.8	1405.6	1394.0	1378.4	1370.8	1330.0	1325.6	1313.2	1318.0	1299.6
17.5°	1411.2	1418.4	1408.8	1401.2	1385.2	1367.2	1342.8	1321.2	1304.0	1265.6	1298.0
20°	1399.6	1409.2	1380.4	1385.2	1386.8	1366.0	1353.2	1335.2	1313.6	1277.6	1249.7
22.5°	1380.4	1373.6	1376.0	1368.8	1362.8	1365.6	1348.0	1335.6	1299.2	1282.8	1244.9
25°	1349.2	1346.8	1353.2	1352.4	1338.0	1333.2	1324.4	1311.2	1296.8	1270.4	1239.3
27.5°	1298.4	1310.8	1322.0	1327.2	1319.6	1306.8	1302.0	1294.4	1284.4	1257.6	1234.5
30°	1244.9	1258.8	1271.6	1282.8	1289.6	1284.0	1279.6	1275.2	1260.0	1242.5	1216.5
32.5°	1183.7	1202.1	1219.7	1233.3	1248.1	1252.5	1249.3	1245.7	1232.9	1216.9	1196.1
35°	1112.9	1138.1	1163.7	1188.1	1194.5	1204.9	1215.3	1209.3	1202.5	1186.5	1167.3
37.5°	1053.0	1071.0	1089.3	1120.1	1142.5	1155.7	1174.1	1176.5	1164.9	1157.3	1132.1
40°	991.0	1007.4	1034.2	1052.2	1083.0	1098.1	1117.7	1126.5	1123.7	1119.3	1097.3
42.5°	942.2	950.2	967.8	983.8	1014.2	1045.4	1062.6	1072.2	1082.2	1078.6	1067.4
45°	890.3	897.5	903.5	917.5	947.0	974.6	995.8	1010.2	1028.2	1036.6	1023.0
47.5°	838.7	840.7	847.9	859.5	877.1	898.3	933.8	955.4	972.2	988.6	979.8
50°	799.1	791.9	793.1	800.3	814.7	835.5	861.1	891.5	910.7	930.6	932.6
52.5°	698.4	756.7	742.8	746.8	754.3	764.3	791.1	821.1	844.7	861.9	879.1
55°	586.0	597.6	710.0	694.0	698.8	707.6	720.0	750.0	772.7	796.7	820.7
57.5°	454.5	540.9	545.3	649.2	646.8	647.6	658.0	675.2	698.0	728.0	748.4
60°	353.4	389.8	460.5	496.5	587.6	590.8	596.8	606.8	626.4	654.8	687.2
62.5°	311.8	316.6	341.8	395.8	454.9	526.5	539.3	540.9	549.7	578.1	615.6
65°	273.8	277.0	284.6	290.2	339.8	409.0	470.5	480.5	486.1	502.9	534.9
67.5°	188.7	238.7	245.5	249.5	254.2	286.2	362.6	413.4	419.7	434.5	462.5
70°	36.4	75.6	206.7	211.1	213.5	220.7	233.1	313.8	356.2	370.2	383.0
72.5°	24.8	29.2	35.2	83.2	175.9	179.9	182.7	193.1	264.6	305.4	312.2
75°	18.0	20.0	23.6	29.2	36.0	117.1	145.1	150.3	155.5	214.7	249.1
77.5°	12.8	14.4	16.0	18.8	22.0	28.4	40.8	112.3	117.5	120.3	169.9
80°	7.2	8.8	10.8	12.4	14.0	16.0	20.8	26.0	58.0	84.7	89.1
82.5°	4.0	4.8	5.6	6.8	7.6	9.6	11.6	14.0	18.4	27.2	57.6
85°	2.0	2.0	2.0	2.8	3.2	4.4	5.2	6.0	8.4	11.6	16.0
87.5°	1.2	1.2	1.6	1.6	1.6	2.0	2.0	2.0	2.4	3.6	5.2
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: P1212980

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1337.2	1336.0	1336.0	1340.8	1339.6
5°	1334.8	1333.6	1333.2	1338.4	1336.0
7.5°	1332.8	1328.4	1327.2	1332.0	1330.0
10°	1324.8	1321.6	1323.6	1322.0	1321.2
12.5°	1311.2	1309.2	1300.8	1301.6	1308.4
15°	1286.8	1294.8	1280.4	1293.2	1296.0
17.5°	1242.1	1260.0	1274.0	1281.6	1282.8
20°	1262.0	1268.0	1260.8	1261.2	1266.0
22.5°	1236.1	1238.9	1240.9	1238.5	1248.9
25°	1194.5	1183.7	1206.9	1211.7	1228.5
27.5°	1181.7	1172.9	1183.7	1182.9	1196.9
30°	1171.3	1142.9	1147.7	1155.3	1172.5
32.5°	1156.5	1111.7	1106.9	1123.7	1142.9
35°	1130.5	1088.1	1077.0	1087.7	1116.5
37.5°	1108.5	1055.4	1033.0	1047.4	1085.0
40°	1075.8	1029.8	995.0	1007.8	1052.2
42.5°	1036.6	1007.8	954.2	963.0	1013.8
45°	997.0	971.4	914.7	919.0	979.4
47.5°	956.6	933.0	873.5	874.3	935.4
50°	917.1	885.9	836.7	822.7	888.7
52.5°	865.5	836.7	799.5	776.7	844.3
55°	816.7	784.3	757.1	722.0	793.9
57.5°	769.1	733.2	714.8	669.6	736.8
60°	704.0	686.8	659.6	616.4	685.2
62.5°	637.2	631.6	604.0	559.3	621.6
65°	559.3	572.5	544.1	505.7	555.7
67.5°	485.7	509.3	478.1	454.5	492.1
70°	407.4	434.5	417.0	408.6	424.5
72.5°	330.2	356.6	358.2	352.2	357.4
75°	255.0	284.2	300.2	291.0	292.2
77.5°	193.5	207.5	225.1	232.3	230.7
80°	119.5	143.9	158.3	173.1	167.9
82.5°	60.4	80.8	98.3	114.3	106.7
85°	25.2	32.4	45.2	59.6	57.2
87.5°	7.6	12.8	13.6	19.2	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)