

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: P1213682

Luminaire Tested: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213682
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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

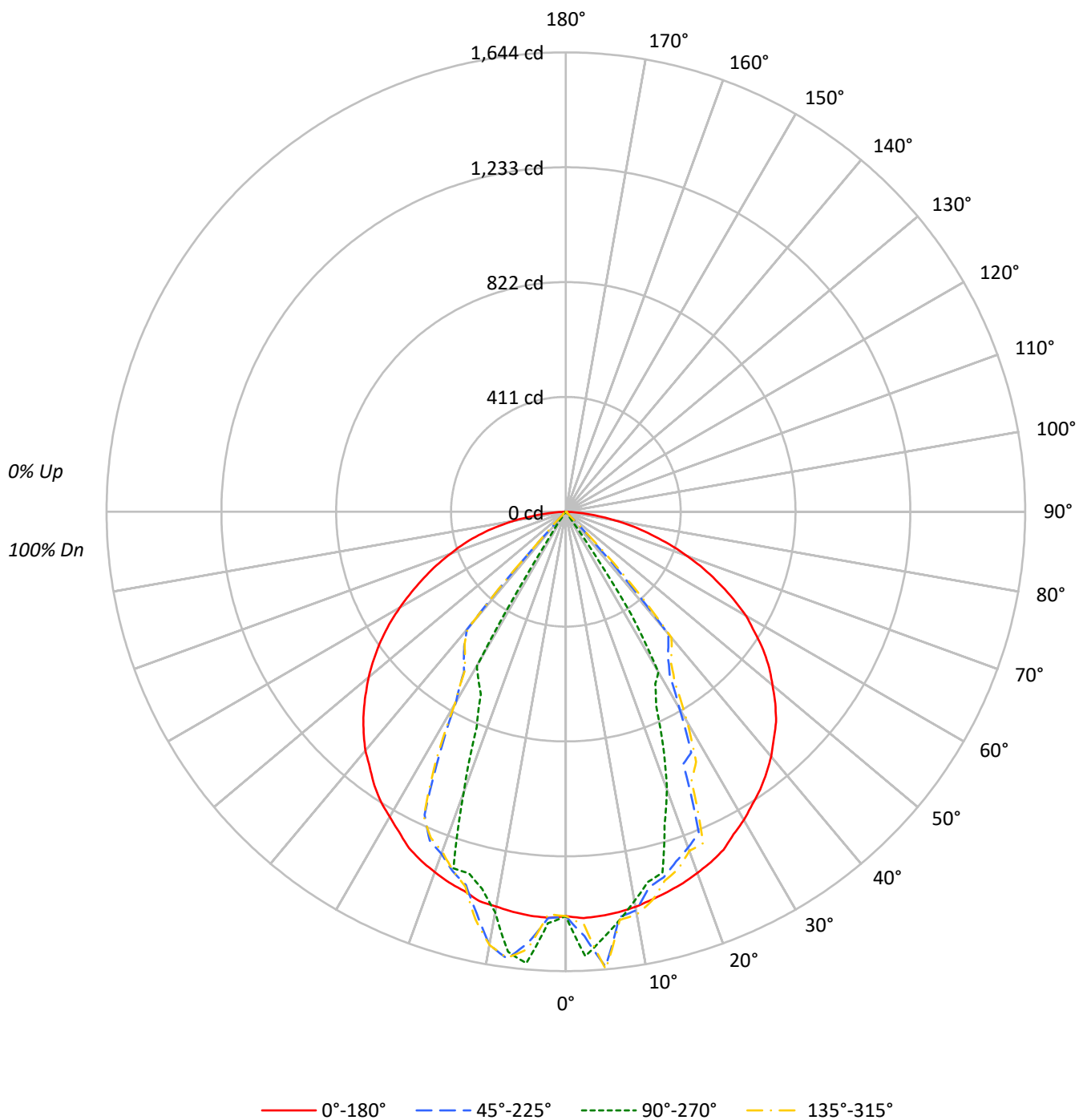
Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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°	23391	23391	23391	23391
5°	23424	24058	23416	25478
10°	23303	21770	23289	22399
15°	23174	20320	23118	20372
20°	23135	16005	23069	16202
25°	23129	11583	23017	10930
30°	22948	10160	22706	9767
35°	22933	223	22597	272
40°	22919	48	22370	48
45°	22893	28	22035	22
50°	22596	23	21559	23
55°	22317	17	20946	17
60°	21715	18	20017	18
65°	20362	28	18912	19
70°	18604	30	17713	30
75°	16076	34	16340	34
80°	12534	39	13255	39
85°	6717	46	6858	46

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 24730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	7.1
10°-20°	396.1	19.2
20°-30°	504.0	24.5
30°-40°	425.7	20.7
40°-50°	278.3	13.5
50°-60°	175.4	8.5
60°-70°	93.4	4.5
70°-80°	34.0	1.7
80°-90°	5.8	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°	1045.3	50.8
0°-40°	1471.0	71.5
0°-60°	1924.8	93.5
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1447	1447	1447	1447	1447	
5°	1452	1532	1451	1622	1452	138
15°	1408	1337	1405	1340	1408	398
25°	1335	763	1328	720	1335	614
35°	1213	14	1195	17	1213	759
45°	1064	2	1024	1	1064	818
55°	863	1	810	1	863	769
65°	604	1	561	1	604	598
75°	318	1	323	1	318	337
85°	62	1	63	1	62	79
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°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1455.6	1456.5	1456.9	1457.8	1459.1	1459.5	1460.4	1459.5	1459.5	1459.5	1459.5
5°	1451.7	1453.4	1454.7	1456.5	1459.5	1459.9	1463.4	1463.8	1465.6	1469.1	1471.7
7.5°	1445.2	1446.9	1449.5	1453.9	1458.2	1463.0	1469.1	1475.6	1484.7	1493.4	1504.2
10°	1435.6	1437.8	1440.8	1444.7	1466.0	1469.1	1482.5	1501.2	1506.4	1533.8	1554.2
12.5°	1421.7	1429.1	1436.9	1440.4	1460.8	1492.9	1538.1	1529.0	1519.0	1608.5	1607.2
15°	1408.2	1418.2	1414.3	1442.6	1461.2	1517.3	1498.2	1539.0	1613.7	1595.5	1596.3
17.5°	1393.9	1396.1	1417.8	1441.3	1474.7	1503.4	1526.8	1582.9	1597.6	1598.9	1582.9
20°	1375.7	1386.1	1417.8	1439.1	1495.6	1509.0	1559.8	1588.5	1582.4	1567.7	1540.3
22.5°	1357.0	1388.7	1420.8	1450.8	1490.3	1526.4	1551.6	1565.1	1533.3	1475.1	1443.9
25°	1334.8	1353.5	1395.6	1439.5	1489.0	1509.9	1524.7	1502.9	1461.7	1409.5	1357.0
27.5°	1300.5	1330.5	1384.4	1433.9	1478.6	1503.8	1479.9	1427.8	1361.3	1327.0	1303.1
30°	1274.0	1313.1	1357.4	1405.2	1451.7	1466.5	1405.6	1346.1	1300.5	1266.2	1261.0
32.5°	1241.9	1297.5	1339.6	1385.2	1424.3	1404.8	1345.7	1268.8	1231.0	1218.0	1223.2
35°	1213.2	1255.3	1310.5	1355.3	1383.5	1339.6	1246.2	1198.4	1180.2	1187.6	1178.0
37.5°	1178.9	1234.5	1285.3	1324.0	1314.4	1248.4	1169.3	1138.9	1141.1	1135.0	1116.8
40°	1143.3	1196.3	1249.3	1285.8	1252.3	1151.5	1099.0	1092.5	1093.8	1074.2	1048.1
42.5°	1101.6	1149.8	1202.8	1235.8	1163.7	1085.1	1049.5	1050.3	1039.0	1011.7	997.8
45°	1064.2	1108.5	1163.7	1166.7	1078.1	1012.5	1002.1	990.8	965.6	956.5	946.1
47.5°	1016.4	1065.5	1111.1	1094.6	994.3	953.5	945.6	920.9	908.3	901.3	892.6
50°	965.6	1015.1	1056.8	1009.9	915.2	905.7	880.0	860.5	851.8	844.4	836.6
52.5°	917.4	958.2	1000.8	920.0	854.4	845.3	816.2	804.9	796.2	788.0	786.2
55°	862.7	898.7	927.8	834.4	796.2	774.9	754.1	746.3	738.0	734.1	740.6
57.5°	800.6	841.4	837.0	750.2	733.2	702.4	694.6	689.4	683.3	685.9	631.6
60°	744.5	775.8	754.5	688.5	659.8	639.0	632.0	628.5	632.0	579.0	509.1
62.5°	675.5	710.6	667.6	616.4	586.0	576.0	569.9	574.7	523.9	465.7	448.7
65°	603.8	642.0	578.6	539.1	519.9	511.3	510.8	470.4	420.5	397.9	397.9
67.5°	534.7	574.2	492.6	459.6	452.2	453.1	427.9	366.6	352.7	337.5	293.6
70°	461.3	496.1	407.0	387.0	382.7	379.6	318.4	301.9	285.4	245.0	241.5
72.5°	388.3	405.3	327.1	322.3	321.4	267.1	255.0	226.7	207.6	202.9	200.7
75°	317.5	312.3	258.5	262.8	221.5	202.4	182.9	166.4	163.8	162.0	40.4
77.5°	250.6	224.6	203.7	177.2	158.5	134.7	130.7	128.1	84.3	30.4	24.8
80°	182.4	145.5	135.5	115.1	98.2	94.3	96.4	29.5	23.5	19.5	16.9
82.5°	116.0	93.0	76.0	66.5	64.7	28.2	20.9	16.9	14.8	12.6	10.4
85°	62.1	41.3	38.2	32.1	19.1	13.0	10.9	8.3	7.0	5.6	5.2
87.5°	19.5	16.5	13.5	10.9	6.5	4.3	3.5	3.0	2.6	2.2	2.2
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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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1458.6	1459.5	1459.1	1460.4	1460.4	1462.1	1463.4	1464.7	1467.3	1468.6	1478.6
5°	1477.3	1479.5	1486.0	1492.1	1499.5	1501.6	1514.2	1517.3	1532.0	1533.8	1582.4
7.5°	1519.0	1527.3	1542.9	1558.5	1574.2	1584.2	1601.5	1612.4	1624.1	1634.6	1673.2
10°	1569.4	1583.3	1598.5	1614.1	1623.3	1642.4	1652.8	1654.5	1651.5	1634.6	1572.0
12.5°	1618.9	1632.8	1626.3	1629.3	1640.2	1606.3	1611.1	1586.8	1603.7	1519.9	1457.8
15°	1612.0	1611.1	1595.0	1542.9	1551.6	1486.9	1460.8	1440.8	1456.9	1448.2	1438.7
17.5°	1591.1	1551.6	1523.8	1461.2	1434.7	1416.5	1416.9	1417.4	1409.5	1417.8	1393.5
20°	1502.9	1458.6	1417.4	1395.2	1387.4	1374.4	1380.9	1374.4	1374.8	1377.4	1340.0
22.5°	1385.7	1372.2	1348.3	1355.3	1352.6	1364.4	1355.7	1342.2	1346.6	1327.0	1298.8
25°	1338.3	1322.7	1321.8	1324.4	1320.5	1315.3	1307.5	1287.1	1285.8	1279.7	1266.6
27.5°	1290.5	1291.4	1294.0	1286.2	1272.3	1261.9	1250.1	1240.1	1244.1	1237.1	1219.3
30°	1257.5	1257.1	1241.4	1234.5	1208.9	1209.3	1206.3	1200.2	1196.3	1196.7	1185.4
32.5°	1210.6	1197.1	1179.3	1170.6	1168.5	1160.7	1154.6	1155.9	1158.9	1148.1	1159.8
35°	1162.4	1134.6	1132.0	1124.6	1117.6	1112.4	1114.6	1105.9	1105.5	1104.2	1008.6
37.5°	1097.7	1084.2	1082.9	1075.1	1070.3	1069.0	1060.7	1062.0	1066.0	1072.9	860.1
40°	1044.2	1032.1	1029.0	1028.6	1018.2	1017.3	1019.5	1027.7	1033.4	989.9	819.7
42.5°	986.9	987.8	978.2	972.1	973.4	977.3	987.8	959.1	831.0	791.9	749.3
45°	937.8	933.5	928.3	926.5	937.8	930.0	815.3	752.3	737.1	735.4	615.9
47.5°	886.6	885.3	883.1	884.4	820.1	731.1	705.0	696.7	699.3	697.6	529.1
50°	834.9	836.6	836.6	730.6	670.7	655.9	658.1	665.5	619.4	578.2	493.0
52.5°	790.1	776.7	665.5	627.2	613.8	620.3	604.7	546.9	505.2	480.9	456.1
55°	707.2	608.1	583.4	577.3	582.1	524.3	488.7	451.3	440.5	437.9	423.5
57.5°	556.4	536.5	538.6	514.3	459.1	426.6	412.2	407.0	402.2	398.8	34.8
60°	492.1	497.8	455.7	403.5	381.4	377.0	373.6	368.8	367.9	361.8	22.2
62.5°	450.4	396.2	359.7	346.6	341.4	340.1	333.6	331.4	281.5	38.7	16.5
65°	339.7	317.5	310.6	307.5	301.9	301.9	250.6	39.5	32.1	27.8	14.8
67.5°	277.1	275.4	271.9	268.0	182.4	38.2	33.4	29.1	25.2	22.2	13.0
70°	234.6	233.7	212.8	39.1	32.6	28.7	25.2	22.6	20.9	18.7	11.7
72.5°	192.4	39.1	33.0	28.7	24.8	22.6	20.4	18.2	16.5	15.2	9.6
75°	30.0	26.5	23.5	21.3	19.5	17.4	15.6	14.3	13.9	12.2	6.5
77.5°	21.7	18.7	16.9	15.2	13.5	12.2	10.4	9.1	8.3	7.0	4.8
80°	15.2	13.5	12.2	10.0	8.7	7.4	6.5	5.6	5.2	4.3	2.2
82.5°	8.7	7.4	6.5	5.2	4.8	3.9	3.5	3.0	3.0	2.2	2.2
85°	3.9	3.9	3.0	2.6	2.2	2.2	2.2	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	0.9
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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1492.5	1498.2	1509.0	1520.3	1507.7	1552.9	1549.4	1564.6	1572.9	1576.8	1585.9
5°	1625.4	1650.6	1658.9	1634.1	1619.8	1605.0	1571.6	1546.4	1549.4	1541.2	1511.2
7.5°	1622.8	1569.0	1496.4	1463.4	1460.8	1456.9	1467.3	1473.4	1474.3	1473.8	1473.0
10°	1485.6	1457.8	1453.0	1448.6	1450.4	1434.3	1426.9	1406.1	1417.4	1411.3	1413.5
12.5°	1443.9	1437.3	1411.7	1376.1	1397.4	1381.3	1372.2	1378.3	1371.3	1364.8	1362.6
15°	1419.1	1377.0	1362.6	1353.9	1347.9	1344.4	1347.4	1340.5	1338.3	1337.0	1340.0
17.5°	1367.8	1350.9	1335.3	1312.2	1312.7	1311.4	1320.1	1333.1	1334.0	1267.1	1206.7
20°	1327.5	1313.6	1293.6	1279.2	1298.8	1264.0	1129.8	1066.0	1056.0	1056.0	1057.7
22.5°	1295.3	1264.5	1265.8	1243.2	1060.3	1023.0	1023.8	1027.7	1009.9	949.1	942.6
25°	1251.4	1246.7	1151.5	995.2	996.5	967.4	922.6	859.6	791.4	791.4	780.1
27.5°	1218.4	1117.2	978.2	971.7	874.0	812.3	774.1	716.3	708.5	701.1	702.0
30°	1190.2	945.2	948.7	812.3	740.2	688.9	685.9	676.3	671.5	670.2	665.5
32.5°	940.9	920.4	794.0	691.5	663.3	655.0	651.1	640.3	639.8	631.6	574.2
35°	882.2	807.9	664.6	636.8	628.5	620.7	614.2	412.2	48.7	19.5	16.9
37.5°	815.3	675.0	614.6	602.0	594.2	439.2	43.9	15.2	10.9	7.8	7.0
40°	691.1	602.9	583.8	569.9	235.0	15.2	9.6	7.4	4.3	3.9	3.5
42.5°	582.9	568.2	547.7	166.8	17.4	7.4	4.8	3.5	3.0	3.0	2.6
45°	545.6	532.5	220.7	16.5	10.9	3.5	3.0	3.0	2.6	1.7	1.7
47.5°	510.8	449.6	20.0	10.4	7.0	3.0	2.6	1.7	1.7	1.7	1.3
50°	473.9	24.8	13.9	7.8	4.3	1.7	1.7	1.7	1.7	1.3	1.3
52.5°	88.6	17.4	11.3	7.0	2.2	1.7	1.7	1.7	1.3	1.3	1.3
55°	20.9	13.9	10.4	6.1	1.7	1.7	1.7	1.3	1.3	1.3	0.9
57.5°	15.6	10.4	8.3	5.6	1.7	1.3	1.3	1.3	1.3	1.3	0.9
60°	13.0	7.4	6.5	5.2	1.3	1.3	1.3	1.3	1.3	1.3	0.9
62.5°	9.1	6.1	4.8	3.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	7.4	4.8	3.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	6.5	3.9	2.6	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	5.2	1.3	1.3	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	4.3	1.3	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	4.3	2.2	0.9	0.9	1.3	1.3	1.7	1.7	1.3	1.3	1.3
77.5°	3.0	2.2	0.9	0.9	1.3	1.3	1.7	1.7	1.3	1.3	1.3
80°	1.7	2.2	0.9	1.3	1.3	2.6	3.0	1.7	1.3	1.3	1.3
82.5°	1.7	2.2	2.6	2.6	1.3	2.2	2.6	2.2	1.7	1.3	1.3
85°	1.7	1.3	1.7	2.2	1.3	2.2	2.2	1.7	1.7	1.3	1.3
87.5°	0.9	1.3	1.3	1.7	1.7	1.7	2.2	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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1590.2	1592.0	1564.6	1555.1	1563.3	1561.6	1554.2	1526.8	1523.8	1505.5	1479.0
5°	1519.9	1531.6	1517.3	1542.0	1530.3	1542.0	1577.7	1594.2	1621.1	1637.6	1643.7
7.5°	1470.8	1473.4	1473.4	1475.6	1477.7	1478.2	1475.6	1473.8	1466.5	1457.3	1473.8
10°	1411.3	1414.3	1419.5	1418.7	1418.2	1427.4	1429.5	1448.2	1447.3	1450.8	1463.4
12.5°	1380.4	1357.0	1378.3	1372.6	1380.4	1368.3	1390.9	1387.0	1388.3	1398.7	1425.6
15°	1329.2	1336.6	1341.8	1341.8	1344.8	1342.2	1339.6	1357.4	1368.3	1368.7	1367.0
17.5°	1230.6	1174.6	1231.9	1217.1	1334.8	1337.9	1327.9	1319.6	1319.6	1326.1	1340.0
20°	1056.4	1057.7	1058.1	1063.8	1070.7	1070.3	1070.7	1241.9	1323.1	1304.4	1291.8
22.5°	926.1	910.0	940.0	937.8	975.2	1016.4	1056.0	1052.1	1054.7	1175.4	1284.0
25°	742.3	763.2	746.3	753.6	795.8	844.9	875.3	954.8	1041.2	1035.1	1063.4
27.5°	698.9	693.3	701.1	701.1	706.7	713.2	730.2	774.9	851.8	932.6	1009.1
30°	657.6	662.4	663.3	671.1	675.5	679.8	682.4	699.3	716.7	772.8	867.0
32.5°	493.9	433.1	569.9	606.8	638.1	645.5	650.7	657.6	670.2	678.5	725.8
35°	14.3	14.3	15.2	17.4	22.2	149.4	569.0	627.2	635.5	645.9	654.6
37.5°	7.0	5.2	6.1	6.5	7.8	10.9	15.6	48.7	541.7	612.5	622.0
40°	3.0	3.0	3.0	3.0	3.5	4.3	6.5	10.9	16.5	435.7	587.7
42.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.0	3.9	7.8	18.7	308.4
45°	1.7	1.7	1.3	1.7	1.7	2.2	2.6	2.6	3.5	11.7	21.3
47.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.6	7.8	11.3
50°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	6.1	7.8
52.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	7.0
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.7	6.1
57.5°	0.9	0.9	0.9	0.9	0.9	1.3	0.9	0.9	1.3	1.3	5.6
60°	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	5.2
62.5°	1.3	1.3	0.9	1.3	0.9	0.9	1.3	1.3	1.3	1.3	3.5
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	1.3
67.5°	1.3	1.3	1.3	1.3	0.9	1.3	0.9	1.3	1.3	0.9	0.9
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	0.9	0.9	0.9
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.6	2.2	2.2	0.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.2	2.2	2.2	3.0
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	2.2
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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1481.2	1466.5	1461.7	1451.7	1450.8	1451.7	1449.5	1446.5	1448.2	1445.2	1442.6
5°	1647.2	1607.6	1582.0	1547.7	1500.3	1489.9	1487.3	1472.5	1467.3	1465.6	1458.6
7.5°	1512.9	1585.0	1628.5	1643.2	1587.6	1574.6	1559.4	1547.2	1535.5	1513.4	1499.9
10°	1453.4	1456.9	1498.6	1547.2	1626.3	1637.2	1645.4	1618.9	1611.5	1555.1	1542.9
12.5°	1439.5	1440.0	1444.7	1474.3	1536.4	1543.3	1572.4	1588.1	1607.2	1618.0	1609.4
15°	1376.1	1411.3	1437.3	1440.0	1445.6	1457.8	1466.5	1520.7	1543.8	1605.5	1602.0
17.5°	1346.6	1357.9	1395.6	1426.5	1421.3	1416.9	1423.9	1431.3	1453.4	1515.1	1514.2
20°	1297.5	1333.5	1353.9	1386.1	1415.2	1416.5	1408.7	1404.3	1395.6	1405.6	1414.8
22.5°	1276.6	1282.3	1320.5	1343.1	1376.1	1387.8	1389.6	1390.0	1385.2	1380.0	1377.4
25°	1274.5	1256.6	1276.2	1304.4	1328.8	1341.4	1355.7	1360.5	1358.7	1358.7	1356.1
27.5°	1042.9	1251.0	1240.6	1259.3	1288.8	1297.5	1304.9	1319.6	1328.8	1335.3	1338.3
30°	993.4	1030.8	1212.8	1215.4	1245.4	1244.5	1252.7	1264.9	1276.6	1291.8	1295.7
32.5°	878.7	970.4	1110.3	1171.5	1202.8	1205.8	1210.2	1213.6	1224.5	1241.4	1256.2
35°	704.1	884.0	951.3	1150.7	1156.3	1162.4	1165.0	1173.2	1176.7	1183.7	1196.7
37.5°	637.2	730.6	912.6	995.2	1102.9	1108.1	1122.0	1125.5	1131.1	1136.8	1146.8
40°	598.6	624.2	759.7	888.7	1059.9	1063.4	1068.1	1076.8	1077.3	1083.8	1092.9
42.5°	567.7	584.2	623.8	848.8	1029.5	1029.0	1017.7	1023.4	1026.0	1032.9	1045.5
45°	453.5	548.2	573.4	693.3	819.7	878.7	992.1	973.4	973.0	975.6	989.1
47.5°	23.0	515.6	533.4	572.1	774.1	776.2	791.0	915.2	934.3	928.3	929.6
50°	15.6	35.6	496.9	514.7	667.2	721.1	731.9	737.6	809.2	889.2	876.1
52.5°	12.2	20.4	304.5	477.8	542.1	581.6	651.6	691.5	695.9	728.0	837.0
55°	10.9	15.6	33.0	440.9	460.9	469.6	510.4	580.3	636.8	653.7	655.0
57.5°	9.6	14.3	22.6	199.4	419.2	420.9	427.9	452.2	503.0	549.5	602.0
60°	8.7	12.6	17.8	34.3	380.9	385.3	386.6	393.1	399.2	430.9	491.3
62.5°	5.2	10.0	15.6	24.8	301.5	346.2	345.8	350.1	355.8	359.2	371.4
65°	4.3	7.8	13.5	20.9	36.9	46.0	279.7	311.0	314.5	319.3	321.4
67.5°	3.9	7.0	10.0	16.5	27.8	31.7	36.5	45.2	246.7	278.0	282.3
70°	3.5	4.8	8.3	13.9	22.6	24.3	27.4	31.3	36.9	45.6	223.3
72.5°	2.2	3.5	5.6	10.0	17.4	19.5	21.3	23.9	26.5	31.7	36.5
75°	0.9	2.6	4.8	7.4	13.5	14.8	16.1	17.8	20.0	23.5	26.1
77.5°	0.9	2.2	3.9	5.2	8.7	10.0	11.7	13.0	14.8	16.5	19.1
80°	3.0	1.7	2.6	3.9	6.1	6.5	7.4	8.3	9.6	10.9	12.6
82.5°	2.2	2.6	3.0	2.6	3.0	3.9	4.3	5.2	5.6	6.5	7.0
85°	1.7	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.0	3.9
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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1442.6	1441.7	1439.1	1439.1	1438.7	1440.4	1441.7	1443.0	1442.6	1445.2	1442.6
5°	1453.4	1451.2	1447.3	1443.9	1442.6	1443.4	1442.1	1443.4	1441.7	1443.9	1440.0
7.5°	1483.4	1476.0	1460.8	1454.7	1446.9	1446.5	1442.6	1441.7	1439.1	1439.1	1434.3
10°	1536.4	1500.8	1496.4	1478.2	1471.7	1440.0	1446.9	1435.2	1433.9	1428.2	1426.1
12.5°	1579.8	1552.0	1543.8	1527.7	1509.5	1445.2	1459.5	1434.3	1433.0	1421.7	1410.0
15°	1580.7	1596.8	1574.2	1529.9	1526.0	1481.7	1452.6	1443.9	1432.6	1398.7	1404.3
17.5°	1529.9	1566.8	1577.7	1568.1	1540.3	1510.3	1469.5	1452.1	1418.2	1403.0	1392.6
20°	1447.3	1484.7	1531.2	1534.2	1551.6	1530.3	1476.9	1448.6	1407.8	1381.3	1372.6
22.5°	1381.7	1409.1	1462.5	1487.3	1508.6	1516.0	1482.1	1440.4	1389.6	1363.9	1358.7
25°	1347.0	1353.1	1369.2	1398.3	1445.2	1479.0	1483.8	1439.5	1413.0	1357.0	1327.5
27.5°	1334.4	1329.2	1322.7	1337.4	1372.6	1413.9	1441.3	1448.6	1382.6	1329.2	1299.7
30°	1302.3	1305.3	1295.3	1290.1	1313.1	1355.7	1404.3	1416.5	1365.7	1310.5	1276.6
32.5°	1262.7	1267.9	1269.7	1260.6	1255.8	1285.3	1337.9	1367.0	1364.4	1284.0	1246.2
35°	1213.2	1228.0	1231.9	1232.3	1224.5	1219.7	1250.1	1310.5	1333.5	1271.9	1217.1
37.5°	1161.1	1165.4	1186.7	1192.4	1192.4	1178.0	1200.6	1248.8	1281.0	1244.5	1181.5
40°	1095.9	1109.8	1129.8	1139.8	1149.8	1151.1	1138.5	1172.4	1225.4	1216.3	1148.1
42.5°	1048.6	1057.7	1069.9	1083.3	1103.7	1109.0	1095.9	1102.0	1157.2	1181.1	1104.6
45°	993.4	1005.6	1009.1	1023.8	1045.1	1060.3	1059.9	1047.3	1091.6	1121.1	1072.9
47.5°	936.9	948.7	954.8	962.1	977.8	997.3	1008.2	1002.5	1011.2	1069.0	1030.8
50°	878.7	885.3	897.4	905.7	916.1	927.4	953.5	958.7	946.5	992.5	984.3
52.5°	823.6	825.7	834.0	842.3	856.2	864.4	885.3	900.9	900.0	913.5	932.6
55°	780.6	771.0	772.8	779.3	788.4	801.0	812.7	837.0	845.3	847.9	878.3
57.5°	609.9	708.0	716.7	716.3	727.1	732.8	743.7	759.7	789.3	782.7	816.6
60°	554.3	565.1	647.2	656.8	660.7	665.9	678.9	693.7	715.4	729.3	744.1
62.5°	422.6	488.7	513.4	586.0	597.3	600.3	609.0	615.9	638.5	670.2	664.2
65°	327.1	355.3	430.9	460.4	522.1	529.9	542.1	549.5	556.0	592.5	594.2
67.5°	282.8	287.1	307.5	364.4	403.5	463.9	471.3	477.8	487.8	513.9	529.9
70°	241.5	246.7	252.4	257.2	308.0	347.9	404.0	406.1	412.7	430.0	466.5
72.5°	45.6	206.3	209.8	212.8	218.5	245.0	298.4	341.9	344.5	352.7	386.2
75°	30.8	36.1	49.5	170.3	175.9	177.7	186.8	241.1	281.0	282.8	297.5
77.5°	22.2	24.8	30.0	35.6	90.8	136.4	138.6	148.6	189.8	219.8	222.4
80°	15.2	16.9	20.0	22.6	27.8	36.5	100.8	103.8	109.0	150.3	158.1
82.5°	8.7	10.0	11.7	14.3	16.5	20.9	26.9	34.8	70.8	75.6	100.3
85°	4.3	4.8	5.6	7.0	8.3	10.0	13.5	16.5	22.6	40.8	42.1
87.5°	2.2	2.2	2.2	2.2	3.5	3.9	4.8	6.1	7.8	11.7	15.2
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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1443.0	1449.1	1454.3	1455.6	1455.6	1456.5	1457.8	1458.6	1459.5	1460.4	1459.5
5°	1440.4	1446.9	1451.2	1452.6	1452.6	1455.2	1457.3	1459.9	1461.2	1461.2	1460.4
7.5°	1433.9	1438.7	1444.3	1447.8	1448.2	1452.6	1456.5	1456.0	1457.8	1458.6	1460.8
10°	1425.2	1425.2	1434.7	1437.3	1439.5	1444.3	1445.6	1448.2	1454.3	1455.2	1460.8
12.5°	1420.8	1416.5	1427.8	1429.1	1436.5	1430.4	1438.2	1440.8	1434.7	1443.0	1432.1
15°	1401.3	1406.5	1404.8	1408.7	1421.7	1414.8	1436.0	1429.1	1444.7	1426.1	1459.1
17.5°	1385.2	1384.4	1391.3	1394.8	1397.4	1412.2	1417.8	1425.6	1431.7	1426.5	1439.5
20°	1373.5	1366.5	1371.8	1375.7	1384.8	1396.1	1399.6	1387.8	1408.2	1443.0	1451.2
22.5°	1351.3	1346.6	1352.6	1352.6	1366.5	1364.8	1377.8	1370.5	1389.6	1430.0	1472.1
25°	1321.4	1321.8	1328.3	1336.1	1338.7	1358.3	1365.2	1374.8	1398.7	1446.9	1472.5
27.5°	1291.0	1288.4	1292.3	1308.3	1321.8	1336.1	1338.3	1370.9	1403.5	1436.5	1459.1
30°	1260.6	1258.0	1260.6	1272.3	1288.4	1297.9	1321.8	1365.2	1395.6	1418.2	1439.5
32.5°	1228.0	1225.4	1231.5	1240.1	1268.4	1269.7	1317.0	1357.9	1381.7	1398.3	1394.3
35°	1193.2	1189.8	1195.4	1208.9	1234.9	1244.5	1294.0	1324.4	1351.3	1359.2	1340.9
37.5°	1151.5	1145.4	1152.4	1171.1	1198.4	1226.2	1267.5	1302.7	1317.0	1296.2	1274.5
40°	1108.1	1103.7	1115.9	1125.5	1157.6	1196.3	1243.6	1268.4	1259.3	1235.4	1211.5
42.5°	1069.4	1060.3	1071.2	1089.4	1125.9	1169.8	1208.0	1221.9	1200.2	1165.0	1137.2
45°	1022.1	1011.2	1024.3	1048.6	1087.7	1137.6	1167.6	1162.8	1125.9	1095.5	1057.3
47.5°	972.6	959.5	972.6	1001.7	1045.5	1098.5	1120.3	1098.5	1052.1	1013.8	983.0
50°	923.9	908.7	921.3	965.2	1008.2	1049.0	1048.6	1006.4	978.6	936.9	910.0
52.5°	875.7	854.0	866.6	914.4	957.4	1003.8	969.5	930.4	897.0	860.5	851.8
55°	816.2	792.7	809.7	879.2	912.2	939.6	884.8	850.5	817.5	799.3	788.4
57.5°	759.7	734.1	748.9	831.0	855.3	862.2	811.8	763.2	743.7	737.6	721.9
60°	701.5	672.4	686.3	781.0	797.9	769.7	720.2	682.4	678.5	666.3	654.2
62.5°	645.9	613.8	622.5	718.9	726.7	675.5	629.8	619.9	610.3	598.1	591.6
65°	582.1	548.6	560.8	652.9	645.5	579.5	553.8	551.7	539.1	529.1	538.6
67.5°	523.4	483.9	500.8	580.8	547.3	493.5	483.0	477.8	467.8	473.5	373.1
70°	459.1	416.1	439.2	503.0	453.5	417.9	414.0	406.1	406.6	323.2	272.4
72.5°	387.5	350.1	383.6	417.9	358.8	348.4	342.7	341.9	275.8	224.1	211.5
75°	324.5	286.7	322.7	335.8	285.8	278.9	278.4	230.2	181.1	172.9	169.0
77.5°	253.2	224.1	258.5	238.9	219.4	211.5	189.8	142.5	136.4	130.7	49.1
80°	170.7	172.9	192.9	164.6	156.4	133.4	105.1	100.8	86.9	34.8	27.4
82.5°	103.8	130.3	122.9	102.9	100.8	72.5	66.5	33.9	25.2	20.0	17.4
85°	53.9	66.0	63.4	56.0	41.7	37.4	20.9	16.1	13.0	10.0	8.3
87.5°	18.2	24.3	23.5	18.7	14.3	11.3	7.4	6.1	4.3	3.5	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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1458.6	1458.6	1457.8	1458.6	1459.1	1458.2	1458.2	1459.1	1459.5	1459.9	1462.1
5°	1460.8	1461.7	1463.0	1465.6	1466.0	1471.2	1473.4	1474.7	1476.0	1476.4	1473.4
7.5°	1465.6	1468.6	1471.2	1470.8	1467.8	1459.5	1456.9	1454.7	1458.6	1468.6	1480.4
10°	1469.9	1456.0	1430.0	1465.6	1454.7	1464.7	1494.3	1500.8	1520.7	1549.0	1557.2
12.5°	1440.0	1478.2	1486.4	1446.5	1520.3	1492.9	1525.5	1554.2	1562.4	1591.1	1573.7
15°	1472.1	1490.8	1503.4	1543.3	1539.0	1562.4	1571.6	1565.9	1567.2	1574.6	1594.2
17.5°	1471.7	1509.0	1517.3	1544.2	1562.4	1562.9	1560.3	1557.7	1564.6	1570.3	1558.5
20°	1496.9	1509.0	1525.1	1536.0	1539.4	1543.8	1552.0	1545.5	1532.5	1519.9	1514.7
22.5°	1484.3	1511.6	1525.5	1527.3	1525.1	1511.6	1499.5	1481.2	1475.1	1468.6	1470.8
25°	1486.9	1499.5	1497.7	1490.8	1481.7	1456.5	1450.4	1442.6	1430.8	1402.6	1377.0
27.5°	1468.2	1461.7	1453.9	1436.9	1420.4	1406.9	1391.7	1366.5	1345.7	1315.3	1304.0
30°	1436.9	1410.9	1391.7	1381.7	1365.7	1343.1	1320.1	1289.2	1262.7	1256.6	1251.0
32.5°	1377.0	1351.3	1335.7	1311.4	1284.0	1257.1	1230.6	1218.4	1212.8	1213.6	1208.4
35°	1315.7	1293.1	1269.7	1233.2	1212.8	1185.8	1176.3	1173.7	1168.5	1162.8	1156.7
37.5°	1250.6	1224.1	1188.9	1167.2	1146.8	1135.9	1131.1	1127.2	1118.1	1108.1	1101.1
40°	1187.6	1139.8	1120.3	1099.0	1092.9	1088.1	1081.2	1071.6	1059.0	1057.3	1054.2
42.5°	1103.3	1069.0	1052.1	1047.7	1040.3	1032.1	1026.0	1015.6	1010.4	1013.8	1016.4
45°	1023.4	1006.0	1000.4	995.2	981.3	969.5	965.6	962.1	966.5	985.6	940.0
47.5°	958.7	951.7	944.8	936.1	923.0	914.4	918.3	921.7	925.7	785.4	716.7
50°	902.6	893.1	882.2	872.7	864.8	864.0	884.4	823.1	689.4	685.9	616.4
52.5°	841.4	827.1	820.5	814.9	818.4	831.4	688.1	638.5	612.5	532.1	496.5
55°	775.4	762.8	762.8	768.0	749.3	607.3	599.9	518.6	469.6	455.7	450.0
57.5°	709.3	708.0	715.4	654.2	551.2	528.6	444.4	426.6	418.7	417.0	407.9
60°	649.0	661.1	553.4	509.1	442.6	399.2	387.0	384.9	376.6	373.6	365.3
62.5°	600.7	498.2	463.9	378.8	356.6	351.0	344.5	341.4	334.0	294.9	86.4
65°	433.9	410.1	332.7	318.4	316.7	308.4	305.8	275.0	64.7	43.4	36.9
67.5°	327.5	290.6	280.6	278.0	269.7	253.2	75.1	43.0	36.9	32.1	28.2
70°	251.5	245.0	237.6	231.5	68.2	42.6	36.9	31.3	26.9	23.9	21.7
72.5°	205.9	201.6	117.3	44.7	36.5	30.8	27.4	23.9	20.9	19.1	17.4
75°	161.2	44.7	36.9	30.8	26.5	22.6	20.0	17.8	16.1	14.8	13.5
77.5°	36.5	29.5	25.2	21.3	19.1	16.9	15.2	13.0	11.7	10.4	8.7
80°	22.6	19.5	16.5	15.2	13.0	10.9	9.6	8.7	7.0	6.5	5.6
82.5°	14.8	11.7	10.4	8.7	7.0	6.5	5.6	4.3	3.9	3.5	3.0
85°	6.5	5.6	4.8	3.9	3.0	2.6	2.2	1.7	1.7	1.7	1.7
87.5°	2.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1463.0	1470.8	1478.2	1476.0	1468.2	1456.0	1452.6	1447.8	1451.2	1458.6	1461.7
5°	1473.4	1469.1	1484.7	1507.7	1545.1	1548.5	1574.6	1580.7	1601.5	1614.6	1614.1
7.5°	1488.2	1549.9	1575.5	1603.3	1615.9	1612.8	1616.7	1613.7	1608.9	1606.8	1604.1
10°	1563.3	1610.2	1619.8	1619.8	1600.2	1573.7	1562.4	1542.9	1503.8	1504.7	1498.2
12.5°	1607.2	1623.7	1601.1	1582.0	1503.4	1473.0	1440.0	1424.3	1415.2	1401.3	1406.5
15°	1584.2	1560.7	1547.2	1485.6	1437.3	1382.6	1383.5	1373.9	1363.9	1364.8	1358.3
17.5°	1550.3	1531.6	1436.0	1393.5	1370.0	1348.7	1344.8	1332.2	1325.7	1323.5	1323.1
20°	1503.8	1436.5	1365.2	1354.8	1326.6	1302.3	1298.3	1302.3	1322.2	1286.6	1165.9
22.5°	1449.5	1352.6	1331.8	1302.3	1283.1	1273.6	1297.5	1188.9	1024.7	1044.7	1023.4
25°	1357.4	1315.3	1279.7	1257.1	1254.9	1196.3	996.9	976.0	870.5	814.0	750.6
27.5°	1290.1	1271.9	1234.5	1230.6	1202.4	978.2	874.4	759.7	717.6	711.1	697.2
30°	1249.3	1223.2	1200.6	1102.0	959.5	787.5	701.5	685.4	678.1	670.2	658.1
32.5°	1200.2	1175.4	1186.3	926.5	764.9	678.1	660.7	649.0	635.5	630.3	586.4
35°	1150.2	1138.9	927.0	778.8	657.6	636.8	623.8	611.6	486.5	117.7	40.0
37.5°	1096.8	1094.2	833.1	646.4	615.9	596.4	559.5	115.5	27.4	18.7	13.9
40°	1055.1	833.6	658.5	606.0	581.2	550.4	77.3	19.1	12.2	7.4	4.8
42.5°	1027.3	749.7	589.4	568.6	514.7	56.9	19.5	8.3	4.8	3.9	3.0
45°	791.9	592.1	550.8	529.1	65.2	19.5	11.3	3.9	3.0	2.6	1.7
47.5°	730.6	537.8	513.4	115.5	21.7	10.4	7.8	2.6	1.7	1.7	1.7
50°	553.4	496.9	408.7	28.2	13.9	7.4	5.6	1.7	1.7	1.7	1.3
52.5°	485.2	458.7	43.9	18.7	10.9	5.6	3.5	1.3	1.3	1.3	1.3
55°	443.5	291.0	26.1	14.3	9.1	5.2	2.2	1.3	1.3	1.3	0.9
57.5°	405.7	39.1	19.1	12.2	8.3	4.8	1.3	1.3	1.3	1.3	0.9
60°	344.0	28.2	15.6	10.9	7.8	4.3	1.3	1.3	1.3	1.3	1.3
62.5°	44.7	22.2	13.5	9.6	5.6	3.5	0.9	1.3	1.3	1.3	1.3
65°	32.6	17.4	12.2	6.5	3.5	1.3	0.9	1.3	1.3	1.3	1.3
67.5°	25.2	14.3	9.1	5.6	3.0	0.9	0.9	1.3	1.3	1.3	1.3
70°	20.0	12.2	7.4	4.8	2.6	0.9	0.9	1.3	1.3	1.3	1.3
72.5°	15.6	8.7	5.2	2.6	1.7	0.9	0.9	1.3	1.3	1.3	1.3
75°	11.7	7.0	3.9	2.2	0.9	0.9	0.9	1.3	1.3	1.3	1.3
77.5°	7.8	4.3	3.0	1.7	1.7	1.7	2.2	2.2	1.3	1.3	1.3
80°	5.2	3.0	2.2	2.2	2.2	1.7	2.2	2.2	1.3	2.2	1.3
82.5°	2.6	2.2	2.2	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°	0.9	0.9	0.9	0.9	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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1457.8	1459.1	1455.6	1474.3	1464.7	1465.6	1469.5	1459.5	1461.7	1454.7	1449.9
5°	1615.9	1618.5	1621.1	1622.0	1623.7	1625.9	1623.3	1622.0	1619.4	1610.7	1601.5
7.5°	1591.1	1588.1	1586.8	1588.5	1591.6	1592.9	1590.7	1593.7	1605.0	1609.8	1612.8
10°	1460.8	1446.9	1456.5	1455.2	1444.3	1480.8	1470.8	1476.4	1480.4	1520.3	1544.6
12.5°	1398.7	1407.4	1390.9	1382.6	1393.5	1400.9	1408.2	1392.6	1414.3	1404.3	1436.5
15°	1346.6	1341.4	1339.6	1340.0	1337.9	1348.3	1350.9	1354.4	1357.4	1370.9	1376.1
17.5°	1323.1	1331.8	1335.3	1337.9	1333.5	1328.8	1324.0	1317.0	1319.2	1315.7	1325.7
20°	1084.6	1055.5	1053.8	1070.7	1052.1	1062.5	1087.7	1256.2	1250.6	1316.2	1294.0
22.5°	905.2	877.9	854.4	834.0	863.1	875.3	922.2	975.2	1061.2	1047.7	1141.1
25°	739.3	729.3	723.2	720.2	722.4	721.5	731.9	756.7	795.8	887.9	1006.9
27.5°	691.5	686.7	684.6	677.6	682.8	681.1	689.4	694.6	706.3	715.4	754.1
30°	653.7	648.1	644.2	636.8	642.0	642.4	645.0	658.5	663.3	671.1	683.3
32.5°	238.9	140.7	132.1	125.5	137.3	179.0	314.1	549.1	626.4	632.5	646.4
35°	23.5	19.5	17.4	17.4	17.8	19.5	26.1	68.6	125.5	485.2	607.3
37.5°	9.1	7.8	6.5	6.1	6.5	7.4	10.0	13.0	17.8	36.9	164.6
40°	3.9	3.5	3.0	3.0	3.0	3.0	3.5	4.3	6.5	12.2	19.1
42.5°	2.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.0	3.9	7.8
45°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.2	3.5
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	0.9	1.3	0.9	1.3	1.3	1.3	1.3
52.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	1.3	1.3	0.9	1.3	0.9	0.9	1.3	1.3	1.3	0.9	0.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	1.7
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.6	2.2
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.2	2.2
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: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1441.7	1441.3	1450.4	1457.3	1454.7	1457.3	1460.4	1460.8	1461.7	1458.2	1456.9
5°	1584.2	1570.7	1544.6	1526.0	1504.2	1464.7	1445.2	1447.3	1447.8	1446.5	1448.2
7.5°	1611.5	1610.2	1601.1	1597.2	1582.4	1554.2	1509.0	1501.2	1482.1	1469.9	1459.9
10°	1542.9	1574.2	1582.4	1596.3	1605.0	1599.8	1561.6	1555.9	1543.8	1529.9	1532.9
12.5°	1468.6	1494.3	1495.6	1571.1	1588.1	1589.8	1575.0	1582.9	1584.6	1553.3	1535.1
15°	1377.4	1389.6	1415.2	1485.6	1536.8	1569.0	1578.5	1582.9	1561.6	1560.3	1552.9
17.5°	1337.4	1345.3	1357.0	1396.5	1474.3	1521.6	1562.0	1559.0	1567.2	1561.1	1542.5
20°	1287.1	1293.6	1314.4	1334.4	1372.6	1435.6	1511.2	1516.8	1527.7	1526.4	1531.6
22.5°	1286.2	1263.2	1266.6	1282.3	1322.2	1378.7	1459.1	1477.7	1484.7	1489.5	1495.1
25°	1020.3	1203.2	1236.7	1246.7	1272.7	1305.7	1400.4	1407.4	1420.4	1441.7	1457.3
27.5°	884.0	1008.2	1142.0	1211.5	1228.0	1255.3	1311.8	1322.2	1366.5	1371.8	1396.1
30°	697.6	793.6	993.4	1160.7	1188.0	1207.1	1247.1	1267.9	1287.1	1307.9	1333.5
32.5°	656.3	671.5	782.3	960.4	1173.2	1158.9	1188.5	1201.0	1221.9	1240.1	1258.8
35°	618.6	629.0	652.4	786.7	955.6	1119.4	1139.4	1147.6	1159.3	1173.2	1186.7
37.5°	579.0	594.7	610.7	646.8	884.0	1088.1	1087.7	1097.2	1104.2	1115.9	1127.2
40°	105.1	546.0	572.1	595.5	685.4	867.9	1039.0	1043.4	1048.1	1055.5	1067.3
42.5°	16.9	91.2	536.0	558.6	584.2	777.1	1016.9	999.1	996.0	1001.2	1011.7
45°	8.7	22.2	107.7	521.7	544.7	619.9	831.4	968.2	965.2	955.2	957.4
47.5°	6.5	13.9	26.5	180.3	510.0	532.1	767.1	758.9	816.6	927.4	910.5
50°	5.6	9.6	15.6	36.9	450.4	490.0	590.8	690.2	720.6	724.5	857.5
52.5°	5.2	6.5	11.3	23.9	94.7	453.1	480.4	515.2	566.4	676.3	673.7
55°	4.8	6.1	9.6	16.1	33.0	408.3	436.5	443.1	453.9	506.5	576.0
57.5°	2.6	5.6	9.1	13.9	24.8	74.7	396.2	401.4	410.1	412.2	437.0
60°	1.3	5.2	8.3	12.2	18.2	34.8	356.2	362.3	367.5	368.4	376.2
62.5°	0.9	4.8	7.0	11.3	15.2	24.8	84.3	172.0	327.1	327.1	336.2
65°	0.9	3.5	4.3	7.4	13.9	20.4	35.6	41.3	80.4	197.6	294.9
67.5°	0.9	1.3	3.9	6.1	10.4	15.6	26.1	30.4	36.5	41.7	77.3
70°	0.9	0.9	3.5	3.9	6.5	11.7	18.7	21.3	24.8	28.2	32.6
72.5°	0.9	0.9	3.0	3.0	4.3	7.8	14.3	15.6	17.8	20.0	23.0
75°	2.2	1.7	2.6	2.6	3.0	6.1	10.9	12.2	13.0	14.8	16.9
77.5°	2.2	2.2	2.2	2.2	2.2	3.9	7.0	7.8	9.1	10.0	11.7
80°	1.7	1.7	1.7	2.2	2.2	2.6	4.3	4.8	5.2	6.5	7.0
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.0	3.9
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	0.9	0.9	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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CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1456.5	1453.9	1451.7	1453.0	1449.1	1447.3	1448.6	1449.1	1449.9	1452.1	1452.6
5°	1452.6	1451.7	1455.6	1457.8	1456.9	1457.8	1457.8	1456.0	1453.4	1455.2	1451.2
7.5°	1449.9	1444.3	1440.0	1440.8	1436.5	1441.7	1446.5	1453.4	1455.6	1455.6	1451.2
10°	1494.7	1488.6	1464.3	1447.8	1436.9	1427.4	1449.9	1426.9	1437.8	1396.5	1443.9
12.5°	1531.6	1539.9	1529.0	1483.8	1476.0	1447.3	1463.8	1435.6	1427.4	1380.0	1395.2
15°	1546.4	1530.7	1527.3	1514.7	1497.7	1489.5	1445.2	1440.4	1426.9	1432.1	1412.2
17.5°	1533.3	1541.2	1530.7	1522.5	1505.1	1485.6	1459.1	1435.6	1416.9	1375.2	1410.4
20°	1520.7	1531.2	1499.9	1505.1	1506.8	1484.3	1470.4	1450.8	1427.4	1388.3	1357.9
22.5°	1499.9	1492.5	1495.1	1487.3	1480.8	1483.8	1464.7	1451.2	1411.7	1393.9	1352.6
25°	1466.0	1463.4	1470.4	1469.5	1453.9	1448.6	1439.1	1424.8	1409.1	1380.4	1346.6
27.5°	1410.9	1424.3	1436.5	1442.1	1433.9	1420.0	1414.8	1406.5	1395.6	1366.5	1341.4
30°	1352.6	1367.8	1381.7	1393.9	1401.3	1395.2	1390.4	1385.7	1369.2	1350.0	1321.8
32.5°	1286.2	1306.2	1325.3	1340.0	1356.1	1360.9	1357.4	1353.5	1339.6	1322.2	1299.7
35°	1209.3	1236.7	1264.5	1291.0	1297.9	1309.2	1320.5	1314.0	1306.6	1289.2	1268.4
37.5°	1144.1	1163.7	1183.7	1217.1	1241.4	1255.8	1275.8	1278.4	1265.8	1257.5	1230.2
40°	1076.8	1094.6	1123.7	1143.3	1176.7	1193.2	1214.5	1224.1	1221.0	1216.3	1192.4
42.5°	1023.8	1032.5	1051.6	1069.0	1102.0	1135.9	1154.6	1165.0	1175.9	1171.9	1159.8
45°	967.4	975.2	981.7	996.9	1029.0	1059.0	1082.0	1097.7	1117.2	1126.3	1111.6
47.5°	911.3	913.5	921.3	933.9	953.0	976.0	1014.7	1038.2	1056.4	1074.2	1064.7
50°	868.3	860.5	861.8	869.6	885.3	907.8	935.6	968.7	989.5	1011.2	1013.4
52.5°	758.9	822.3	807.1	811.4	819.7	830.5	859.6	892.2	917.8	936.5	955.2
55°	636.8	649.4	771.5	754.1	759.3	768.8	782.3	814.9	839.6	865.7	891.8
57.5°	493.9	587.7	592.5	705.4	702.8	703.7	715.0	733.7	758.4	791.0	813.2
60°	384.0	423.5	500.4	539.5	638.5	642.0	648.5	659.4	680.7	711.5	746.7
62.5°	338.8	344.0	371.4	430.0	494.3	572.1	586.0	587.7	597.3	628.1	668.9
65°	297.5	301.0	309.3	315.4	369.2	444.4	511.3	522.1	528.2	546.4	581.2
67.5°	205.0	259.3	266.7	271.1	276.3	311.0	394.0	449.1	456.1	472.2	502.6
70°	39.5	82.1	224.6	229.4	232.0	239.8	253.2	341.0	387.0	402.2	416.1
72.5°	26.9	31.7	38.2	90.4	191.1	195.5	198.5	209.8	287.6	331.9	339.2
75°	19.5	21.7	25.6	31.7	39.1	127.3	157.7	163.3	169.0	233.3	270.6
77.5°	13.9	15.6	17.4	20.4	23.9	30.8	44.3	122.1	127.7	130.7	184.6
80°	7.8	9.6	11.7	13.5	15.2	17.4	22.6	28.2	63.0	92.1	96.9
82.5°	4.3	5.2	6.1	7.4	8.3	10.4	12.6	15.2	20.0	29.5	62.6
85°	2.2	2.2	2.2	3.0	3.5	4.8	5.6	6.5	9.1	12.6	17.4
87.5°	1.3	1.3	1.7	1.7	1.7	2.2	2.2	2.2	2.6	3.9	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213682

CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1453.0	1451.7	1451.7	1456.9	1455.6
5°	1450.4	1449.1	1448.6	1454.3	1451.7
7.5°	1448.2	1443.4	1442.1	1447.3	1445.2
10°	1439.5	1436.0	1438.2	1436.5	1435.6
12.5°	1424.8	1422.6	1413.5	1414.3	1421.7
15°	1398.3	1406.9	1391.3	1405.2	1408.2
17.5°	1349.6	1369.2	1384.4	1392.6	1393.9
20°	1371.3	1377.8	1370.0	1370.5	1375.7
22.5°	1343.1	1346.1	1348.3	1345.7	1357.0
25°	1297.9	1286.2	1311.4	1316.6	1334.8
27.5°	1284.0	1274.5	1286.2	1285.3	1300.5
30°	1272.7	1241.9	1247.1	1255.3	1274.0
32.5°	1256.6	1208.0	1202.8	1221.0	1241.9
35°	1228.4	1182.4	1170.2	1181.9	1213.2
37.5°	1204.5	1146.8	1122.4	1138.1	1178.9
40°	1168.9	1119.0	1081.2	1095.1	1143.3
42.5°	1126.3	1095.1	1036.9	1046.4	1101.6
45°	1083.3	1055.5	993.9	998.6	1064.2
47.5°	1039.5	1013.8	949.1	950.0	1016.4
50°	996.5	962.6	909.1	893.9	965.6
52.5°	940.4	909.1	868.8	844.0	917.4
55°	887.4	852.2	822.7	784.5	862.7
57.5°	835.7	796.6	776.7	727.6	800.6
60°	764.9	746.3	716.7	669.8	744.5
62.5°	692.4	686.3	656.3	607.7	675.5
65°	607.7	622.0	591.2	549.5	603.8
67.5°	527.8	553.4	519.5	493.9	534.7
70°	442.6	472.2	453.1	443.9	461.3
72.5°	358.8	387.5	389.2	382.7	388.3
75°	277.1	308.8	326.2	316.2	317.5
77.5°	210.2	225.4	244.6	252.4	250.6
80°	129.9	156.4	172.0	188.1	182.4
82.5°	65.6	87.7	106.9	124.2	116.0
85°	27.4	35.2	49.1	64.7	62.1
87.5°	8.3	13.9	14.8	20.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)