

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: P1213339

Luminaire Tested: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213339
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-LD5-27SL-RM-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

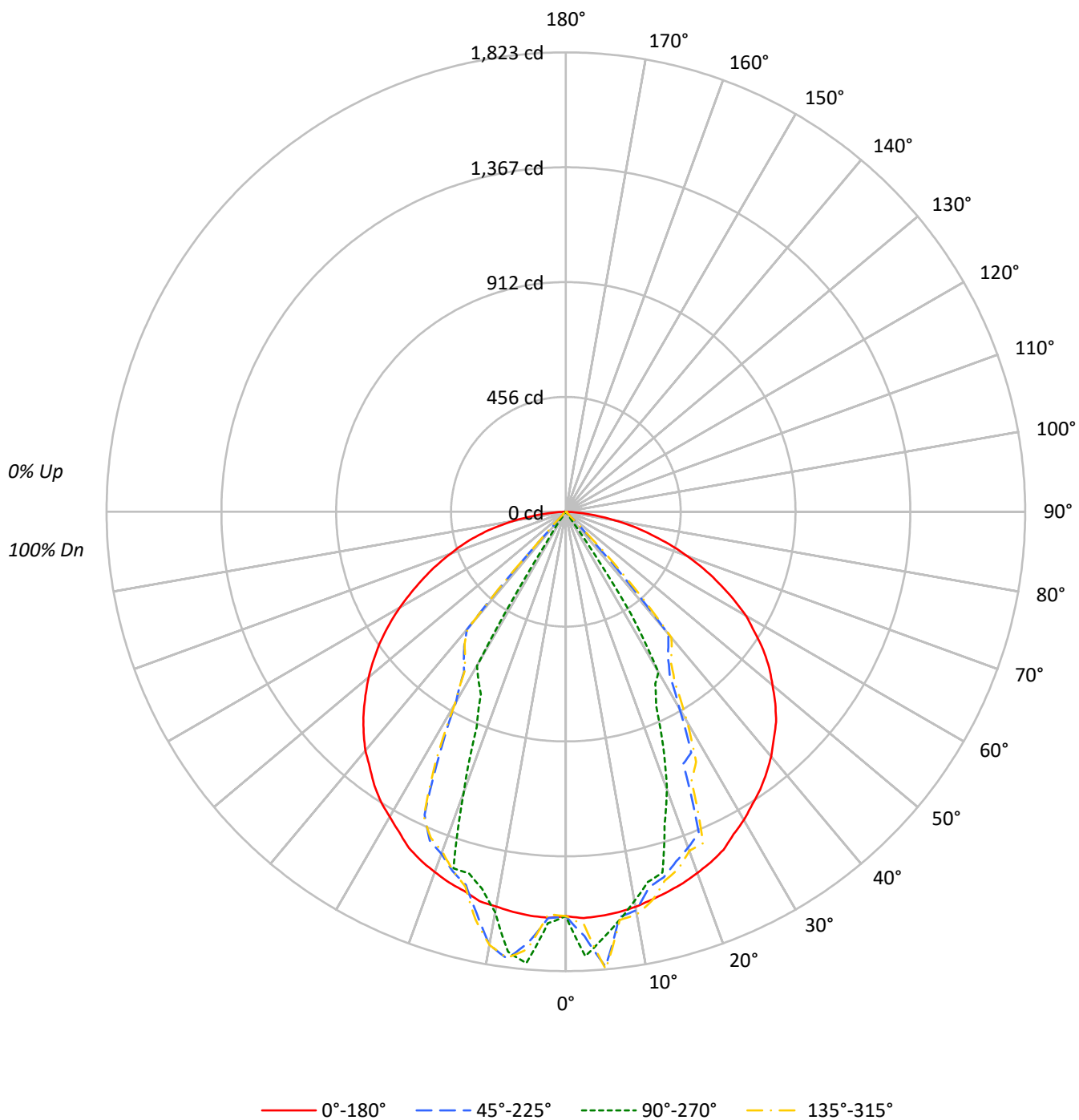
Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	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°	25938	25938	25938	25938
5°	25973	26677	25965	28251
10°	25840	24140	25824	24836
15°	25697	22532	25634	22590
20°	25652	17747	25580	17966
25°	25647	12844	25522	12120
30°	25446	11266	25178	10830
35°	25430	248	25056	302
40°	25413	55	24806	55
45°	25386	32	24431	23
50°	25055	24	23906	24
55°	24746	18	23225	18
60°	24080	20	22196	20
65°	22577	30	20969	21
70°	20628	33	19640	33
75°	17828	36	18122	36
80°	13901	42	14698	42
85°	7453	49	7604	49

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 27422 cd/sqm

TEST NUMBER: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	7.1
10°-20°	439.2	19.2
20°-30°	558.9	24.5
30°-40°	472.1	20.7
40°-50°	308.6	13.5
50°-60°	194.5	8.5
60°-70°	103.5	4.5
70°-80°	37.7	1.7
80°-90°	6.5	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°	1159.1	50.8
0°-40°	1631.1	71.5
0°-60°	2134.2	93.5
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1605	1605	1605	1605	1605	
5°	1610	1698	1609	1798	1610	153
15°	1562	1482	1558	1486	1562	441
25°	1480	846	1473	799	1480	681
35°	1345	16	1326	19	1345	842
45°	1180	2	1136	1	1180	908
55°	957	1	898	1	957	852
65°	670	1	622	1	670	663
75°	352	1	358	1	352	374
85°	69	1	70	1	69	87
90°	0	0	0	0	0	

TEST NUMBER: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1614.0	1615.0	1615.5	1616.4	1617.9	1618.4	1619.3	1618.4	1618.4	1618.4	1618.4
5°	1609.7	1611.6	1613.1	1615.0	1618.4	1618.8	1622.7	1623.2	1625.1	1629.0	1631.8
7.5°	1602.5	1604.4	1607.3	1612.1	1616.9	1622.2	1629.0	1636.2	1646.3	1655.9	1668.0
10°	1591.9	1594.3	1597.6	1602.0	1625.6	1629.0	1643.9	1664.6	1670.4	1700.7	1723.4
12.5°	1576.5	1584.6	1593.3	1597.2	1619.8	1655.4	1705.5	1695.4	1684.3	1783.6	1782.1
15°	1561.5	1572.6	1568.3	1599.6	1620.3	1682.4	1661.2	1706.5	1789.3	1769.1	1770.1
17.5°	1545.6	1548.0	1572.1	1598.1	1635.2	1667.0	1693.0	1755.1	1771.5	1773.0	1755.1
20°	1525.4	1537.0	1572.1	1595.7	1658.3	1673.3	1729.6	1761.4	1754.7	1738.3	1707.9
22.5°	1504.7	1539.8	1575.5	1608.7	1652.6	1692.5	1720.5	1735.4	1700.2	1635.7	1601.0
25°	1480.1	1500.8	1547.6	1596.2	1651.1	1674.2	1690.6	1666.5	1620.8	1563.0	1504.7
27.5°	1442.1	1475.3	1535.0	1589.9	1639.6	1667.5	1641.0	1583.2	1509.5	1471.5	1445.0
30°	1412.7	1456.0	1505.2	1558.2	1609.7	1626.1	1558.6	1492.6	1442.1	1404.0	1398.2
32.5°	1377.1	1438.7	1485.4	1536.0	1579.3	1557.7	1492.2	1406.9	1365.0	1350.6	1356.3
35°	1345.3	1392.0	1453.2	1502.8	1534.1	1485.4	1381.9	1328.9	1308.7	1316.8	1306.2
37.5°	1307.2	1368.9	1425.2	1468.1	1457.5	1384.3	1296.6	1262.9	1265.3	1258.6	1238.3
40°	1267.7	1326.5	1385.2	1425.7	1388.6	1276.9	1218.6	1211.4	1212.8	1191.1	1162.2
42.5°	1221.5	1274.9	1333.7	1370.3	1290.4	1203.2	1163.7	1164.6	1152.1	1121.8	1106.4
45°	1180.1	1229.2	1290.4	1293.7	1195.5	1122.7	1111.2	1098.7	1070.7	1060.6	1049.0
47.5°	1127.1	1181.5	1232.1	1213.8	1102.5	1057.2	1048.6	1021.1	1007.1	999.4	989.8
50°	1070.7	1125.6	1171.9	1119.8	1014.8	1004.2	975.8	954.2	944.5	936.3	927.7
52.5°	1017.3	1062.5	1109.7	1020.1	947.4	937.3	905.0	892.5	882.9	873.7	871.8
55°	956.6	996.5	1028.8	925.3	882.9	859.3	836.2	827.5	818.3	814.0	821.2
57.5°	887.7	933.0	928.1	831.8	813.0	778.8	770.2	764.4	757.6	760.5	700.3
60°	825.6	860.2	836.6	763.4	731.6	708.5	700.8	697.0	700.8	642.0	564.5
62.5°	749.0	788.0	740.3	683.5	649.8	638.7	631.9	637.2	580.9	516.3	497.5
65°	669.5	711.9	641.6	597.7	576.5	566.9	566.4	521.6	466.2	441.2	441.2
67.5°	592.9	636.7	546.2	509.6	501.4	502.4	474.4	406.5	391.1	374.2	325.6
70°	511.5	550.0	451.3	429.2	424.3	421.0	353.1	334.7	316.4	271.7	267.8
72.5°	430.6	449.4	362.7	357.4	356.4	296.2	282.7	251.4	230.2	224.9	222.5
75°	352.1	346.3	286.6	291.4	245.6	224.5	202.8	184.5	181.6	179.7	44.8
77.5°	277.9	249.0	225.9	196.5	175.8	149.3	145.0	142.1	93.4	33.7	27.5
80°	202.3	161.4	150.3	127.6	108.9	104.5	106.9	32.8	26.0	21.7	18.8
82.5°	128.6	103.1	84.3	73.7	71.8	31.3	23.1	18.8	16.4	14.0	11.6
85°	68.9	45.8	42.4	35.6	21.2	14.4	12.0	9.2	7.7	6.3	5.8
87.5°	21.7	18.3	14.9	12.0	7.2	4.8	3.9	3.4	2.9	2.4	2.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1617.4	1618.4	1617.9	1619.3	1619.3	1621.2	1622.7	1624.1	1627.0	1628.5	1639.6
5°	1638.1	1640.5	1647.7	1654.5	1662.7	1665.1	1679.0	1682.4	1698.8	1700.7	1754.7
7.5°	1684.3	1693.5	1710.8	1728.2	1745.5	1756.6	1775.9	1787.9	1800.9	1812.5	1855.3
10°	1740.2	1755.6	1772.5	1789.8	1799.9	1821.1	1832.7	1834.6	1831.3	1812.5	1743.1
12.5°	1795.1	1810.5	1803.3	1806.7	1818.7	1781.2	1786.5	1759.5	1778.3	1685.3	1616.4
15°	1787.4	1786.5	1768.6	1710.8	1720.5	1648.7	1619.8	1597.6	1615.5	1605.8	1595.2
17.5°	1764.3	1720.5	1689.6	1620.3	1590.9	1570.7	1571.2	1571.6	1563.0	1572.1	1545.1
20°	1666.5	1617.4	1571.6	1547.1	1538.4	1524.0	1531.2	1524.0	1524.4	1527.3	1485.9
22.5°	1536.5	1521.5	1495.1	1502.8	1499.9	1512.9	1503.2	1488.3	1493.1	1471.5	1440.1
25°	1484.0	1466.6	1465.7	1468.6	1464.2	1458.5	1449.8	1427.1	1425.7	1419.0	1404.5
27.5°	1431.0	1432.0	1434.8	1426.2	1410.8	1399.2	1386.2	1375.1	1379.5	1371.8	1352.0
30°	1394.4	1393.9	1376.6	1368.9	1340.4	1340.9	1337.6	1330.8	1326.5	1327.0	1314.4
32.5°	1342.4	1327.4	1307.7	1298.1	1295.7	1287.0	1280.2	1281.7	1285.1	1273.0	1286.0
35°	1288.9	1258.1	1255.2	1247.0	1239.3	1233.5	1235.9	1226.3	1225.8	1224.4	1118.4
37.5°	1217.1	1202.2	1200.8	1192.1	1186.8	1185.4	1176.2	1177.6	1182.0	1189.7	953.7
40°	1157.9	1144.4	1141.0	1140.6	1129.0	1128.0	1130.4	1139.6	1145.9	1097.7	908.9
42.5°	1094.3	1095.3	1084.7	1077.9	1079.4	1083.7	1095.3	1063.5	921.4	878.1	830.9
45°	1039.9	1035.1	1029.3	1027.4	1039.9	1031.2	904.1	834.2	817.4	815.4	683.0
47.5°	983.1	981.6	979.2	980.6	909.4	810.6	781.7	772.6	775.5	773.5	586.7
50°	925.7	927.7	927.7	810.1	743.7	727.3	729.7	737.9	686.8	641.1	546.7
52.5°	876.1	861.2	737.9	695.5	680.6	687.8	670.5	606.4	560.2	533.2	505.7
55°	784.1	674.3	646.9	640.1	645.4	581.4	541.9	500.4	488.4	485.5	469.6
57.5°	617.0	594.8	597.3	570.3	509.1	473.0	457.1	451.3	446.0	442.2	38.5
60°	545.7	552.0	505.3	447.5	422.9	418.1	414.2	408.9	408.0	401.2	24.6
62.5°	499.5	439.3	398.8	384.4	378.6	377.1	369.9	367.5	312.1	42.9	18.3
65°	376.7	352.1	344.4	341.0	334.7	334.7	277.9	43.8	35.6	30.8	16.4
67.5°	307.3	305.4	301.5	297.2	202.3	42.4	37.1	32.3	27.9	24.6	14.4
70°	260.1	259.1	236.0	43.3	36.1	31.8	27.9	25.0	23.1	20.7	13.0
72.5°	213.4	43.3	36.6	31.8	27.5	25.0	22.6	20.2	18.3	16.9	10.6
75°	33.2	29.4	26.0	23.6	21.7	19.3	17.3	15.9	15.4	13.5	7.2
77.5°	24.1	20.7	18.8	16.9	14.9	13.5	11.6	10.1	9.2	7.7	5.3
80°	16.9	14.9	13.5	11.1	9.6	8.2	7.2	6.3	5.8	4.8	2.4
82.5°	9.6	8.2	7.2	5.8	5.3	4.3	3.9	3.4	3.4	2.4	2.4
85°	4.3	4.3	3.4	2.9	2.4	2.4	2.4	1.9	1.9	1.4	1.4
87.5°	1.9	1.9	1.9	1.9	1.9	1.4	1.4	1.4	1.4	1.4	1.0
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1655.0	1661.2	1673.3	1685.8	1671.8	1721.9	1718.1	1734.9	1744.1	1748.4	1758.5
5°	1802.4	1830.3	1839.4	1812.0	1796.1	1779.7	1742.6	1714.7	1718.1	1708.9	1675.7
7.5°	1799.5	1739.7	1659.3	1622.7	1619.8	1615.5	1627.0	1633.8	1634.7	1634.3	1633.3
10°	1647.3	1616.4	1611.1	1606.3	1608.2	1590.4	1582.2	1559.1	1571.6	1564.9	1567.3
12.5°	1601.0	1593.8	1565.4	1525.9	1549.5	1531.7	1521.5	1528.3	1520.6	1513.4	1511.0
15°	1573.6	1526.8	1511.0	1501.3	1494.6	1490.7	1494.1	1486.4	1484.0	1482.5	1485.9
17.5°	1516.7	1497.9	1480.6	1455.1	1455.6	1454.1	1463.7	1478.2	1479.2	1405.0	1338.0
20°	1471.9	1456.5	1434.4	1418.5	1440.1	1401.6	1252.8	1182.0	1170.9	1170.9	1172.8
22.5°	1436.3	1402.1	1403.5	1378.5	1175.7	1134.3	1135.3	1139.6	1119.8	1052.4	1045.2
25°	1387.6	1382.3	1276.9	1103.5	1104.9	1072.6	1023.0	953.2	877.6	877.6	865.1
27.5°	1351.0	1238.8	1084.7	1077.5	969.1	900.7	858.3	794.2	785.6	777.4	778.4
30°	1319.7	1048.1	1051.9	900.7	820.7	763.9	760.5	749.9	744.6	743.2	737.9
32.5°	1043.3	1020.6	880.5	766.8	735.5	726.3	722.0	710.0	709.5	700.3	636.7
35°	978.2	895.9	736.9	706.1	697.0	688.3	681.1	457.1	53.9	21.7	18.8
37.5°	904.1	748.5	681.5	667.6	658.9	487.0	48.6	16.9	12.0	8.7	7.7
40°	766.3	668.5	647.3	631.9	260.6	16.9	10.6	8.2	4.8	4.3	3.9
42.5°	646.4	630.0	607.4	185.0	19.3	8.2	5.3	3.9	3.4	3.4	2.9
45°	605.0	590.5	244.7	18.3	12.0	3.9	3.4	3.4	2.9	1.9	1.9
47.5°	566.4	498.5	22.2	11.6	7.7	3.4	2.9	1.9	1.9	1.9	1.4
50°	525.5	27.5	15.4	8.7	4.8	1.9	1.9	1.9	1.9	1.4	1.4
52.5°	98.3	19.3	12.5	7.7	2.4	1.9	1.9	1.9	1.4	1.4	1.4
55°	23.1	15.4	11.6	6.7	1.9	1.9	1.9	1.4	1.4	1.4	1.0
57.5°	17.3	11.6	9.2	6.3	1.9	1.4	1.4	1.4	1.4	1.4	1.0
60°	14.4	8.2	7.2	5.8	1.4	1.4	1.4	1.4	1.4	1.4	1.0
62.5°	10.1	6.7	5.3	4.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	8.2	5.3	4.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	7.2	4.3	2.9	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	5.8	1.4	1.4	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	4.8	1.4	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	4.8	2.4	1.0	1.0	1.4	1.4	1.9	1.9	1.4	1.4	1.4
77.5°	3.4	2.4	1.0	1.0	1.4	1.4	1.9	1.9	1.4	1.4	1.4
80°	1.9	2.4	1.0	1.4	1.4	2.9	3.4	1.9	1.4	1.4	1.4
82.5°	1.9	2.4	2.9	2.9	1.4	2.4	2.9	2.4	1.9	1.4	1.4
85°	1.9	1.4	1.9	2.4	1.4	2.4	2.4	1.9	1.9	1.4	1.4
87.5°	1.0	1.4	1.4	1.9	1.9	1.9	2.4	1.9	1.9	1.9	1.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1763.3	1765.3	1734.9	1724.3	1733.5	1731.5	1723.4	1693.0	1689.6	1669.4	1640.0
5°	1685.3	1698.3	1682.4	1709.9	1696.9	1709.9	1749.4	1767.7	1797.5	1815.8	1822.6
7.5°	1630.9	1633.8	1633.8	1636.2	1638.6	1639.1	1636.2	1634.3	1626.1	1616.0	1634.3
10°	1564.9	1568.3	1574.0	1573.1	1572.6	1582.7	1585.1	1605.8	1604.9	1608.7	1622.7
12.5°	1530.7	1504.7	1528.3	1522.0	1530.7	1517.2	1542.3	1537.9	1539.4	1550.9	1580.8
15°	1473.9	1482.1	1487.8	1487.8	1491.2	1488.3	1485.4	1505.2	1517.2	1517.7	1515.8
17.5°	1364.5	1302.4	1366.0	1349.6	1480.1	1483.5	1472.4	1463.3	1463.3	1470.5	1485.9
20°	1171.4	1172.8	1173.3	1179.6	1187.3	1186.8	1187.3	1377.1	1467.1	1446.4	1432.4
22.5°	1026.9	1009.1	1042.3	1039.9	1081.3	1127.1	1170.9	1166.6	1169.5	1303.4	1423.8
25°	823.1	846.3	827.5	835.7	882.4	936.8	970.5	1058.7	1154.5	1147.8	1179.1
27.5°	775.0	768.7	777.4	777.4	783.7	790.9	809.7	859.3	944.5	1034.1	1118.9
30°	729.2	734.5	735.5	744.2	749.0	753.8	756.7	775.5	794.7	856.9	961.4
32.5°	547.6	480.2	631.9	672.9	707.6	715.7	721.5	729.2	743.2	752.3	804.8
35°	15.9	15.9	16.9	19.3	24.6	165.7	631.0	695.5	704.7	716.2	725.9
37.5°	7.7	5.8	6.7	7.2	8.7	12.0	17.3	53.9	600.6	679.1	689.7
40°	3.4	3.4	3.4	3.4	3.9	4.8	7.2	12.0	18.3	483.1	651.7
42.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.4	4.3	8.7	20.7	342.0
45°	1.9	1.9	1.4	1.9	1.9	2.4	2.9	2.9	3.9	13.0	23.6
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.9	8.7	12.5
50°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	6.7	8.7
52.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.9	7.7
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.9	6.7
57.5°	1.0	1.0	1.0	1.0	1.0	1.4	1.0	1.0	1.4	1.4	6.3
60°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.4	5.8
62.5°	1.4	1.4	1.0	1.4	1.0	1.0	1.4	1.4	1.4	1.4	3.9
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.0	1.4
67.5°	1.4	1.4	1.4	1.4	1.0	1.4	1.0	1.4	1.4	1.0	1.0
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.0	1.0	1.0	1.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.0	1.0	1.0	1.0
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.0	1.0	1.0
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.9	2.4	2.4	1.0
80°	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.4	2.4	2.4	3.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9	2.4
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.4	1.9
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.4	1.4	1.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1642.4	1626.1	1620.8	1609.7	1608.7	1609.7	1607.3	1603.9	1605.8	1602.5	1599.6
5°	1826.4	1782.6	1754.2	1716.1	1663.6	1652.1	1649.2	1632.8	1627.0	1625.1	1617.4
7.5°	1677.6	1757.6	1805.7	1822.1	1760.4	1746.0	1729.1	1715.7	1702.6	1678.1	1663.2
10°	1611.6	1615.5	1661.7	1715.7	1803.3	1815.4	1824.5	1795.1	1786.9	1724.3	1710.8
12.5°	1596.2	1596.7	1602.0	1634.7	1703.6	1711.3	1743.6	1760.9	1782.1	1794.2	1784.5
15°	1525.9	1564.9	1593.8	1596.7	1602.9	1616.4	1626.1	1686.3	1711.8	1780.2	1776.3
17.5°	1493.1	1505.7	1547.6	1581.8	1576.0	1571.2	1578.9	1587.1	1611.6	1680.0	1679.0
20°	1438.7	1478.7	1501.3	1537.0	1569.2	1570.7	1562.0	1557.2	1547.6	1558.6	1568.7
22.5°	1415.6	1421.8	1464.2	1489.3	1525.9	1538.9	1540.8	1541.3	1536.0	1530.2	1527.3
25°	1413.2	1393.4	1415.1	1446.4	1473.4	1487.3	1503.2	1508.5	1506.6	1506.6	1503.7
27.5°	1156.5	1387.2	1375.6	1396.3	1429.1	1438.7	1446.9	1463.3	1473.4	1480.6	1484.0
30°	1101.5	1143.0	1344.8	1347.7	1380.9	1379.9	1389.1	1402.6	1415.6	1432.4	1436.8
32.5°	974.4	1076.0	1231.1	1299.0	1333.7	1337.1	1341.9	1345.7	1357.8	1376.6	1392.9
35°	780.8	980.2	1054.8	1275.9	1282.2	1288.9	1291.8	1300.9	1304.8	1312.5	1327.0
37.5°	706.6	810.1	1012.0	1103.5	1222.9	1228.7	1244.1	1248.0	1254.2	1260.5	1271.6
40°	663.7	692.1	842.4	985.5	1175.2	1179.1	1184.4	1194.0	1194.5	1201.7	1211.8
42.5°	629.5	647.8	691.7	941.2	1141.5	1141.0	1128.5	1134.8	1137.7	1145.4	1159.3
45°	502.8	607.8	635.8	768.7	908.9	974.4	1100.1	1079.4	1078.9	1081.8	1096.7
47.5°	25.5	571.7	591.5	634.3	858.3	860.7	877.1	1014.8	1036.0	1029.3	1030.7
50°	17.3	39.5	551.0	570.8	739.8	799.5	811.6	817.8	897.3	985.9	971.5
52.5°	13.5	22.6	337.6	529.8	601.1	644.9	722.5	766.8	771.6	807.3	928.1
55°	12.0	17.3	36.6	488.9	511.0	520.7	565.9	643.5	706.1	724.9	726.3
57.5°	10.6	15.9	25.0	221.1	464.8	466.7	474.4	501.4	557.8	609.3	667.6
60°	9.6	14.0	19.7	38.1	422.4	427.2	428.7	435.9	442.6	477.8	544.8
62.5°	5.8	11.1	17.3	27.5	334.3	383.9	383.4	388.2	394.5	398.3	411.8
65°	4.8	8.7	14.9	23.1	40.9	51.1	310.2	344.9	348.7	354.0	356.4
67.5°	4.3	7.7	11.1	18.3	30.8	35.2	40.5	50.1	273.6	308.3	313.1
70°	3.9	5.3	9.2	15.4	25.0	27.0	30.3	34.7	40.9	50.6	247.6
72.5°	2.4	3.9	6.3	11.1	19.3	21.7	23.6	26.5	29.4	35.2	40.5
75°	1.0	2.9	5.3	8.2	14.9	16.4	17.8	19.7	22.2	26.0	28.9
77.5°	1.0	2.4	4.3	5.8	9.6	11.1	13.0	14.4	16.4	18.3	21.2
80°	3.4	1.9	2.9	4.3	6.7	7.2	8.2	9.2	10.6	12.0	14.0
82.5°	2.4	2.9	3.4	2.9	3.4	4.3	4.8	5.8	6.3	7.2	7.7
85°	1.9	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.9	3.4	4.3
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1599.6	1598.6	1595.7	1595.7	1595.2	1597.2	1598.6	1600.1	1599.6	1602.5	1599.6
5°	1611.6	1609.2	1604.9	1601.0	1599.6	1600.5	1599.1	1600.5	1598.6	1601.0	1596.7
7.5°	1644.9	1636.7	1619.8	1613.1	1604.4	1603.9	1599.6	1598.6	1595.7	1595.7	1590.4
10°	1703.6	1664.1	1659.3	1639.1	1631.8	1596.7	1604.4	1591.4	1589.9	1583.7	1581.3
12.5°	1751.8	1721.0	1711.8	1694.0	1673.7	1602.5	1618.4	1590.4	1589.0	1576.5	1563.5
15°	1752.7	1770.6	1745.5	1696.4	1692.1	1642.9	1610.7	1601.0	1588.5	1550.9	1557.2
17.5°	1696.4	1737.3	1749.4	1738.8	1707.9	1674.7	1629.4	1610.2	1572.6	1555.7	1544.2
20°	1604.9	1646.3	1697.8	1701.2	1720.5	1696.9	1637.6	1606.3	1561.0	1531.7	1522.0
22.5°	1532.1	1562.5	1621.7	1649.2	1672.8	1681.0	1643.4	1597.2	1540.8	1512.4	1506.6
25°	1493.6	1500.4	1518.2	1550.4	1602.5	1640.0	1645.3	1596.2	1566.8	1504.7	1471.9
27.5°	1479.6	1473.9	1466.6	1483.0	1522.0	1567.8	1598.1	1606.3	1533.1	1473.9	1441.1
30°	1444.0	1447.4	1436.3	1430.5	1456.0	1503.2	1557.2	1570.7	1514.3	1453.2	1415.6
32.5°	1400.2	1405.9	1407.9	1397.8	1392.5	1425.2	1483.5	1515.8	1512.9	1423.8	1381.9
35°	1345.3	1361.6	1366.0	1366.5	1357.8	1352.5	1386.2	1453.2	1478.7	1410.3	1349.6
37.5°	1287.5	1292.3	1315.9	1322.1	1322.1	1306.2	1331.3	1384.8	1420.4	1379.9	1310.1
40°	1215.2	1230.6	1252.8	1263.9	1274.9	1276.4	1262.4	1300.0	1358.7	1348.6	1273.0
42.5°	1162.7	1172.8	1186.3	1201.2	1223.9	1229.7	1215.2	1222.0	1283.1	1309.6	1224.8
45°	1101.5	1115.0	1118.9	1135.3	1158.9	1175.7	1175.2	1161.3	1210.4	1243.2	1189.7
47.5°	1038.9	1051.9	1058.7	1066.9	1084.2	1105.9	1117.9	1111.7	1121.3	1185.4	1143.0
50°	974.4	981.6	995.1	1004.2	1015.8	1028.3	1057.2	1063.0	1049.5	1100.6	1091.4
52.5°	913.2	915.6	924.8	933.9	949.3	958.5	981.6	999.0	998.0	1012.9	1034.1
55°	865.5	854.9	856.9	864.1	874.2	888.2	901.2	928.1	937.3	940.2	973.9
57.5°	676.2	785.1	794.7	794.2	806.3	812.6	824.6	842.4	875.2	867.9	905.5
60°	614.6	626.6	717.7	728.3	732.6	738.4	752.8	769.2	793.3	808.7	825.1
62.5°	468.6	541.9	569.3	649.8	662.3	665.6	675.3	683.0	708.0	743.2	736.4
65°	362.7	394.0	477.8	510.6	578.9	587.6	601.1	609.3	616.5	657.0	658.9
67.5°	313.6	318.4	341.0	404.1	447.5	514.4	522.6	529.8	540.9	569.8	587.6
70°	267.8	273.6	279.8	285.1	341.5	385.8	447.9	450.3	457.6	476.8	517.3
72.5°	50.6	228.8	232.6	236.0	242.3	271.7	330.9	379.1	382.0	391.1	428.2
75°	34.2	40.0	54.9	188.8	195.1	197.0	207.1	267.3	311.6	313.6	329.9
77.5°	24.6	27.5	33.2	39.5	100.7	151.2	153.6	164.7	210.5	243.7	246.6
80°	16.9	18.8	22.2	25.0	30.8	40.5	111.7	115.1	120.9	166.7	175.3
82.5°	9.6	11.1	13.0	15.9	18.3	23.1	29.9	38.5	78.5	83.8	111.3
85°	4.8	5.3	6.3	7.7	9.2	11.1	14.9	18.3	25.0	45.3	46.7
87.5°	2.4	2.4	2.4	2.4	3.9	4.3	5.3	6.7	8.7	13.0	16.9
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1600.1	1606.8	1612.6	1614.0	1614.0	1615.0	1616.4	1617.4	1618.4	1619.3	1618.4
5°	1597.2	1604.4	1609.2	1610.7	1610.7	1613.5	1616.0	1618.8	1620.3	1620.3	1619.3
7.5°	1589.9	1595.2	1601.5	1605.4	1605.8	1610.7	1615.0	1614.5	1616.4	1617.4	1619.8
10°	1580.3	1580.3	1590.9	1593.8	1596.2	1601.5	1602.9	1605.8	1612.6	1613.5	1619.8
12.5°	1575.5	1570.7	1583.2	1584.6	1592.8	1586.1	1594.8	1597.6	1590.9	1600.1	1588.0
15°	1553.8	1559.6	1557.7	1562.0	1576.5	1568.7	1592.4	1584.6	1602.0	1581.3	1617.9
17.5°	1536.0	1535.0	1542.7	1546.6	1549.5	1565.9	1572.1	1580.8	1587.5	1581.8	1596.2
20°	1523.0	1515.3	1521.1	1525.4	1535.5	1548.0	1551.9	1538.9	1561.5	1600.1	1609.2
22.5°	1498.4	1493.1	1499.9	1499.9	1515.3	1513.4	1527.8	1519.6	1540.8	1585.6	1632.3
25°	1465.2	1465.7	1472.9	1481.6	1484.5	1506.1	1513.8	1524.4	1550.9	1604.4	1632.8
27.5°	1431.5	1428.6	1432.9	1450.7	1465.7	1481.6	1484.0	1520.1	1556.2	1592.8	1617.9
30°	1397.8	1394.9	1397.8	1410.8	1428.6	1439.2	1465.7	1513.8	1547.6	1572.6	1596.2
32.5°	1361.6	1358.7	1365.5	1375.1	1406.4	1407.9	1460.4	1505.7	1532.1	1550.4	1546.1
35°	1323.1	1319.3	1325.5	1340.4	1369.3	1379.9	1434.8	1468.6	1498.4	1507.1	1486.9
37.5°	1276.9	1270.1	1277.8	1298.5	1328.9	1359.7	1405.5	1444.5	1460.4	1437.3	1413.2
40°	1228.7	1223.9	1237.4	1248.0	1283.6	1326.5	1379.0	1406.4	1396.3	1369.8	1343.3
42.5°	1185.8	1175.7	1187.8	1208.0	1248.4	1297.1	1339.5	1354.9	1330.8	1291.8	1261.0
45°	1133.3	1121.3	1135.7	1162.7	1206.1	1261.5	1294.7	1289.4	1248.4	1214.7	1172.3
47.5°	1078.4	1064.0	1078.4	1110.7	1159.3	1218.1	1242.2	1218.1	1166.6	1124.2	1090.0
50°	1024.5	1007.6	1021.6	1070.2	1117.9	1163.2	1162.7	1116.0	1085.2	1038.9	1009.1
52.5°	971.0	946.9	960.9	1013.9	1061.6	1113.1	1075.1	1031.7	994.6	954.2	944.5
55°	905.0	879.0	897.8	974.9	1011.5	1041.8	981.1	943.1	906.5	886.2	874.2
57.5°	842.4	814.0	830.4	921.4	948.4	956.1	900.2	846.3	824.6	817.8	800.5
60°	777.9	745.6	761.0	866.0	884.8	853.5	798.6	756.7	752.3	738.9	725.4
62.5°	716.2	680.6	690.2	797.1	805.8	749.0	698.4	687.3	676.7	663.2	656.0
65°	645.4	608.3	621.8	723.9	715.7	642.5	614.1	611.7	597.7	586.7	597.3
67.5°	580.4	536.6	555.3	644.0	606.9	547.2	535.6	529.8	518.7	525.0	413.7
70°	509.1	461.4	487.0	557.8	502.8	463.4	459.0	450.3	450.8	358.4	302.0
72.5°	429.6	388.2	425.3	463.4	397.8	386.3	380.0	379.1	305.9	248.5	234.6
75°	359.8	317.9	357.9	372.3	316.9	309.2	308.7	255.3	200.8	191.7	187.4
77.5°	280.8	248.5	286.6	264.9	243.2	234.6	210.5	158.0	151.2	145.0	54.4
80°	189.3	191.7	213.9	182.5	173.4	147.9	116.6	111.7	96.3	38.5	30.3
82.5°	115.1	144.5	136.3	114.2	111.7	80.4	73.7	37.6	27.9	22.2	19.3
85°	59.7	73.2	70.3	62.1	46.2	41.4	23.1	17.8	14.4	11.1	9.2
87.5°	20.2	27.0	26.0	20.7	15.9	12.5	8.2	6.7	4.8	3.9	3.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1617.4	1617.4	1616.4	1617.4	1617.9	1616.9	1616.9	1617.9	1618.4	1618.8	1621.2
5°	1619.8	1620.8	1622.2	1625.1	1625.6	1631.4	1633.8	1635.2	1636.7	1637.1	1633.8
7.5°	1625.1	1628.5	1631.4	1630.9	1627.5	1618.4	1615.5	1613.1	1617.4	1628.5	1641.5
10°	1629.9	1614.5	1585.6	1625.1	1613.1	1624.1	1656.9	1664.1	1686.3	1717.6	1726.7
12.5°	1596.7	1639.1	1648.2	1603.9	1685.8	1655.4	1691.6	1723.4	1732.5	1764.3	1745.0
15°	1632.3	1653.0	1667.0	1711.3	1706.5	1732.5	1742.6	1736.4	1737.8	1746.0	1767.7
17.5°	1631.8	1673.3	1682.4	1712.3	1732.5	1733.0	1730.1	1727.2	1734.9	1741.2	1728.2
20°	1659.8	1673.3	1691.1	1703.1	1707.0	1711.8	1721.0	1713.7	1699.3	1685.3	1679.5
22.5°	1645.8	1676.2	1691.6	1693.5	1691.1	1676.2	1662.7	1642.4	1635.7	1628.5	1630.9
25°	1648.7	1662.7	1660.7	1653.0	1642.9	1615.0	1608.2	1599.6	1586.6	1555.3	1526.8
27.5°	1628.0	1620.8	1612.1	1593.3	1575.0	1560.1	1543.2	1515.3	1492.2	1458.5	1445.9
30°	1593.3	1564.4	1543.2	1532.1	1514.3	1489.3	1463.7	1429.6	1400.2	1393.4	1387.2
32.5°	1526.8	1498.4	1481.1	1454.1	1423.8	1393.9	1364.5	1351.0	1344.8	1345.7	1340.0
35°	1458.9	1433.9	1407.9	1367.4	1344.8	1314.9	1304.3	1301.4	1295.7	1289.4	1282.6
37.5°	1386.7	1357.3	1318.3	1294.2	1271.6	1259.5	1254.2	1249.9	1239.8	1228.7	1221.0
40°	1316.8	1263.9	1242.2	1218.6	1211.8	1206.5	1198.8	1188.2	1174.3	1172.3	1169.0
42.5°	1223.4	1185.4	1166.6	1161.8	1153.6	1144.4	1137.7	1126.1	1120.3	1124.2	1127.1
45°	1134.8	1115.5	1109.3	1103.5	1088.1	1075.1	1070.7	1066.9	1071.7	1092.9	1042.3
47.5°	1063.0	1055.3	1047.6	1038.0	1023.5	1013.9	1018.2	1022.1	1026.4	870.8	794.7
50°	1000.9	990.3	978.2	967.6	959.0	958.0	980.6	912.7	764.4	760.5	683.5
52.5°	933.0	917.1	909.8	903.6	907.4	921.9	762.9	708.0	679.1	590.0	550.5
55°	859.8	845.8	845.8	851.6	830.9	673.4	665.2	575.1	520.7	505.3	499.0
57.5°	786.5	785.1	793.3	725.4	611.2	586.2	492.7	473.0	464.3	462.4	452.3
60°	719.6	733.1	613.6	564.5	490.8	442.6	429.2	426.7	417.6	414.2	405.1
62.5°	666.1	552.5	514.4	420.0	395.4	389.2	382.0	378.6	370.4	327.0	95.8
65°	481.2	454.7	368.9	353.1	351.1	342.0	339.1	304.9	71.8	48.2	40.9
67.5°	363.2	322.2	311.1	308.3	299.1	280.8	83.3	47.7	40.9	35.6	31.3
70°	278.9	271.7	263.5	256.7	75.6	47.2	40.9	34.7	29.9	26.5	24.1
72.5°	228.3	223.5	130.0	49.6	40.5	34.2	30.3	26.5	23.1	21.2	19.3
75°	178.7	49.6	40.9	34.2	29.4	25.0	22.2	19.7	17.8	16.4	14.9
77.5°	40.5	32.8	27.9	23.6	21.2	18.8	16.9	14.4	13.0	11.6	9.6
80°	25.0	21.7	18.3	16.9	14.4	12.0	10.6	9.6	7.7	7.2	6.3
82.5°	16.4	13.0	11.6	9.6	7.7	7.2	6.3	4.8	4.3	3.9	3.4
85°	7.2	6.3	5.3	4.3	3.4	2.9	2.4	1.9	1.9	1.9	1.9
87.5°	2.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.0	1.0
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1622.2	1630.9	1639.1	1636.7	1628.0	1614.5	1610.7	1605.4	1609.2	1617.4	1620.8
5°	1633.8	1629.0	1646.3	1671.8	1713.2	1717.1	1746.0	1752.7	1775.9	1790.3	1789.8
7.5°	1650.1	1718.5	1747.0	1777.8	1791.8	1788.4	1792.7	1789.3	1784.0	1781.6	1778.8
10°	1733.5	1785.5	1796.1	1796.1	1774.4	1745.0	1732.5	1710.8	1667.5	1668.5	1661.2
12.5°	1782.1	1800.4	1775.4	1754.2	1667.0	1633.3	1596.7	1579.3	1569.2	1553.8	1559.6
15°	1756.6	1730.6	1715.7	1647.3	1593.8	1533.1	1534.1	1523.5	1512.4	1513.4	1506.1
17.5°	1719.0	1698.3	1592.4	1545.1	1519.1	1495.5	1491.2	1477.2	1470.0	1467.6	1467.1
20°	1667.5	1592.8	1513.8	1502.3	1471.0	1444.0	1439.7	1444.0	1466.2	1426.7	1292.8
22.5°	1607.3	1499.9	1476.8	1444.0	1422.8	1412.2	1438.7	1318.3	1136.2	1158.4	1134.8
25°	1505.2	1458.5	1419.0	1393.9	1391.5	1326.5	1105.4	1082.3	965.2	902.6	832.3
27.5°	1430.5	1410.3	1368.9	1364.5	1333.2	1084.7	969.6	842.4	795.7	788.5	773.1
30°	1385.2	1356.3	1331.3	1222.0	1064.0	873.2	777.9	760.1	751.9	743.2	729.7
32.5°	1330.8	1303.4	1315.4	1027.4	848.2	751.9	732.6	719.6	704.7	698.9	650.2
35°	1275.4	1262.9	1027.9	863.6	729.2	706.1	691.7	678.2	539.5	130.5	44.3
37.5°	1216.2	1213.3	923.8	716.7	683.0	661.3	620.4	128.1	30.3	20.7	15.4
40°	1169.9	924.3	730.2	671.9	644.5	610.3	85.7	21.2	13.5	8.2	5.3
42.5°	1139.1	831.3	653.6	630.5	570.8	63.1	21.7	9.2	5.3	4.3	3.4
45°	878.1	656.5	610.7	586.7	72.2	21.7	12.5	4.3	3.4	2.9	1.9
47.5°	810.1	596.3	569.3	128.1	24.1	11.6	8.7	2.9	1.9	1.9	1.9
50°	613.6	551.0	453.2	31.3	15.4	8.2	6.3	1.9	1.9	1.9	1.4
52.5°	538.0	508.6	48.6	20.7	12.0	6.3	3.9	1.4	1.4	1.4	1.4
55°	491.8	322.7	28.9	15.9	10.1	5.8	2.4	1.4	1.4	1.4	1.0
57.5°	449.9	43.3	21.2	13.5	9.2	5.3	1.4	1.4	1.4	1.4	1.0
60°	381.5	31.3	17.3	12.0	8.7	4.8	1.4	1.4	1.4	1.4	1.4
62.5°	49.6	24.6	14.9	10.6	6.3	3.9	1.0	1.4	1.4	1.4	1.4
65°	36.1	19.3	13.5	7.2	3.9	1.4	1.0	1.4	1.4	1.4	1.4
67.5°	27.9	15.9	10.1	6.3	3.4	1.0	1.0	1.4	1.4	1.4	1.4
70°	22.2	13.5	8.2	5.3	2.9	1.0	1.0	1.4	1.4	1.4	1.4
72.5°	17.3	9.6	5.8	2.9	1.9	1.0	1.0	1.4	1.4	1.4	1.4
75°	13.0	7.7	4.3	2.4	1.0	1.0	1.0	1.4	1.4	1.4	1.4
77.5°	8.7	4.8	3.4	1.9	1.9	1.9	2.4	2.4	1.4	1.4	1.4
80°	5.8	3.4	2.4	2.4	2.4	1.9	2.4	2.4	1.4	2.4	1.4
82.5°	2.9	2.4	2.4	1.9	1.9	1.4	1.9	1.9	1.9	1.9	1.4
85°	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.4
87.5°	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.9	1.9	1.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1616.4	1617.9	1614.0	1634.7	1624.1	1625.1	1629.4	1618.4	1620.8	1613.1	1607.8
5°	1791.8	1794.6	1797.5	1798.5	1800.4	1802.8	1799.9	1798.5	1795.6	1786.0	1775.9
7.5°	1764.3	1760.9	1759.5	1761.4	1764.8	1766.2	1763.8	1767.2	1779.7	1785.0	1788.4
10°	1619.8	1604.4	1615.0	1613.5	1601.5	1642.0	1630.9	1637.1	1641.5	1685.8	1712.8
12.5°	1550.9	1560.6	1542.3	1533.1	1545.1	1553.3	1561.5	1544.2	1568.3	1557.2	1592.8
15°	1493.1	1487.3	1485.4	1485.9	1483.5	1495.1	1497.9	1501.8	1505.2	1520.1	1525.9
17.5°	1467.1	1476.8	1480.6	1483.5	1478.7	1473.4	1468.1	1460.4	1462.8	1458.9	1470.0
20°	1202.7	1170.4	1168.5	1187.3	1166.6	1178.1	1206.1	1392.9	1386.7	1459.4	1434.8
22.5°	1003.8	973.4	947.4	924.8	957.0	970.5	1022.6	1081.3	1176.7	1161.8	1265.3
25°	819.8	808.7	802.0	798.6	801.0	800.0	811.6	839.0	882.4	984.5	1116.5
27.5°	766.8	761.5	759.1	751.4	757.2	755.2	764.4	770.2	783.2	793.3	836.2
30°	724.9	718.6	714.3	706.1	711.9	712.4	715.3	730.2	735.5	744.2	757.6
32.5°	264.9	156.1	146.4	139.2	152.2	198.4	348.2	608.8	694.5	701.3	716.7
35°	26.0	21.7	19.3	19.3	19.7	21.7	28.9	76.1	139.2	538.0	673.4
37.5°	10.1	8.7	7.2	6.7	7.2	8.2	11.1	14.4	19.7	40.9	182.5
40°	4.3	3.9	3.4	3.4	3.4	3.4	3.9	4.8	7.2	13.5	21.2
42.5°	2.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.4	4.3	8.7
45°	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.4	3.9
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9
50°	1.4	1.4	1.4	1.4	1.0	1.4	1.0	1.4	1.4	1.4	1.4
52.5°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.4	1.4	1.0	1.4	1.0	1.0	1.4	1.4	1.4	1.0	1.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.9	2.9	1.9
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.9	2.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.4	2.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1598.6	1598.1	1608.2	1616.0	1613.1	1616.0	1619.3	1619.8	1620.8	1616.9	1615.5
5°	1756.6	1741.7	1712.8	1692.1	1668.0	1624.1	1602.5	1604.9	1605.4	1603.9	1605.8
7.5°	1786.9	1785.5	1775.4	1771.0	1754.7	1723.4	1673.3	1664.6	1643.4	1629.9	1618.8
10°	1710.8	1745.5	1754.7	1770.1	1779.7	1773.9	1731.5	1725.3	1711.8	1696.4	1699.8
12.5°	1628.5	1656.9	1658.3	1742.1	1760.9	1762.9	1746.5	1755.1	1757.1	1722.4	1702.2
15°	1527.3	1540.8	1569.2	1647.3	1704.1	1739.7	1750.3	1755.1	1731.5	1730.1	1721.9
17.5°	1483.0	1491.7	1504.7	1548.5	1634.7	1687.2	1732.0	1728.7	1737.8	1731.1	1710.4
20°	1427.1	1434.4	1457.5	1479.6	1522.0	1591.9	1675.7	1681.9	1694.0	1692.5	1698.3
22.5°	1426.2	1400.7	1404.5	1421.8	1466.2	1528.8	1617.9	1638.6	1646.3	1651.6	1657.9
25°	1131.4	1334.2	1371.3	1382.3	1411.2	1447.9	1552.9	1560.6	1575.0	1598.6	1616.0
27.5°	980.2	1117.9	1266.3	1343.3	1361.6	1392.0	1454.6	1466.2	1515.3	1521.1	1548.0
30°	773.5	880.0	1101.5	1287.0	1317.3	1338.5	1382.8	1405.9	1427.1	1450.3	1478.7
32.5°	727.8	744.6	867.5	1064.9	1300.9	1285.1	1317.8	1331.8	1354.9	1375.1	1395.8
35°	685.9	697.4	723.4	872.3	1059.6	1241.2	1263.4	1272.5	1285.5	1300.9	1315.9
37.5°	642.0	659.4	677.2	717.2	980.2	1206.5	1206.1	1216.7	1224.4	1237.4	1249.9
40°	116.6	605.4	634.3	660.3	760.1	962.3	1152.1	1156.9	1162.2	1170.4	1183.4
42.5°	18.8	101.1	594.4	619.4	647.8	861.7	1127.6	1107.8	1104.4	1110.2	1121.8
45°	9.6	24.6	119.5	578.5	604.0	687.3	921.9	1073.6	1070.2	1059.2	1061.6
47.5°	7.2	15.4	29.4	199.9	565.5	590.0	850.6	841.5	905.5	1028.3	1009.5
50°	6.3	10.6	17.3	40.9	499.5	543.3	655.1	765.3	799.1	803.4	950.8
52.5°	5.8	7.2	12.5	26.5	105.0	502.4	532.7	571.2	628.1	749.9	747.0
55°	5.3	6.7	10.6	17.8	36.6	452.8	484.1	491.3	503.3	561.6	638.7
57.5°	2.9	6.3	10.1	15.4	27.5	82.8	439.3	445.0	454.7	457.1	484.5
60°	1.4	5.8	9.2	13.5	20.2	38.5	395.0	401.7	407.5	408.4	417.1
62.5°	1.0	5.3	7.7	12.5	16.9	27.5	93.4	190.7	362.7	362.7	372.8
65°	1.0	3.9	4.8	8.2	15.4	22.6	39.5	45.8	89.1	219.2	327.0
67.5°	1.0	1.4	4.3	6.7	11.6	17.3	28.9	33.7	40.5	46.2	85.7
70°	1.0	1.0	3.9	4.3	7.2	13.0	20.7	23.6	27.5	31.3	36.1
72.5°	1.0	1.0	3.4	3.4	4.8	8.7	15.9	17.3	19.7	22.2	25.5
75°	2.4	1.9	2.9	2.9	3.4	6.7	12.0	13.5	14.4	16.4	18.8
77.5°	2.4	2.4	2.4	2.4	2.4	4.3	7.7	8.7	10.1	11.1	13.0
80°	1.9	1.9	1.9	2.4	2.4	2.9	4.8	5.3	5.8	7.2	7.7
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	3.4	4.3
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9
87.5°	1.4	1.4	1.4	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1615.0	1612.1	1609.7	1611.1	1606.8	1604.9	1606.3	1606.8	1607.8	1610.2	1610.7
5°	1610.7	1609.7	1614.0	1616.4	1615.5	1616.4	1616.4	1614.5	1611.6	1613.5	1609.2
7.5°	1607.8	1601.5	1596.7	1597.6	1592.8	1598.6	1603.9	1611.6	1614.0	1614.0	1609.2
10°	1657.4	1650.6	1623.7	1605.4	1593.3	1582.7	1607.8	1582.2	1594.3	1548.5	1601.0
12.5°	1698.3	1707.5	1695.4	1645.3	1636.7	1604.9	1623.2	1591.9	1582.7	1530.2	1547.1
15°	1714.7	1697.4	1693.5	1679.5	1660.7	1651.6	1602.5	1597.2	1582.2	1588.0	1565.9
17.5°	1700.2	1708.9	1697.4	1688.2	1668.9	1647.3	1617.9	1591.9	1571.2	1524.9	1563.9
20°	1686.3	1697.8	1663.2	1668.9	1670.9	1645.8	1630.4	1608.7	1582.7	1539.4	1505.7
22.5°	1663.2	1655.0	1657.9	1649.2	1642.0	1645.3	1624.1	1609.2	1565.4	1545.6	1499.9
25°	1625.6	1622.7	1630.4	1629.4	1612.1	1606.3	1595.7	1579.8	1562.5	1530.7	1493.1
27.5°	1564.4	1579.3	1592.8	1599.1	1589.9	1574.5	1568.7	1559.6	1547.6	1515.3	1487.3
30°	1499.9	1516.7	1532.1	1545.6	1553.8	1547.1	1541.8	1536.5	1518.2	1497.0	1465.7
32.5°	1426.2	1448.3	1469.5	1485.9	1503.7	1509.0	1505.2	1500.8	1485.4	1466.2	1441.1
35°	1340.9	1371.3	1402.1	1431.5	1439.2	1451.7	1464.2	1457.0	1448.8	1429.6	1406.4
37.5°	1268.7	1290.4	1312.5	1349.6	1376.6	1392.5	1414.6	1417.5	1403.5	1394.4	1364.0
40°	1194.0	1213.8	1246.0	1267.7	1304.8	1323.1	1346.7	1357.3	1353.9	1348.6	1322.1
42.5°	1135.3	1144.9	1166.1	1185.4	1222.0	1259.5	1280.2	1291.8	1303.8	1299.5	1286.0
45°	1072.6	1081.3	1088.5	1105.4	1141.0	1174.3	1199.8	1217.1	1238.8	1248.9	1232.6
47.5°	1010.5	1012.9	1021.6	1035.6	1056.8	1082.3	1125.1	1151.2	1171.4	1191.1	1180.5
50°	962.8	954.2	955.6	964.3	981.6	1006.7	1037.5	1074.1	1097.2	1121.3	1123.7
52.5°	841.5	911.8	894.9	899.7	908.9	920.9	953.2	989.3	1017.7	1038.4	1059.2
55°	706.1	720.1	855.4	836.2	841.9	852.5	867.5	903.6	931.0	959.9	988.8
57.5°	547.6	651.7	657.0	782.2	779.3	780.3	792.8	813.5	841.0	877.1	901.7
60°	425.8	469.6	554.9	598.2	708.0	711.9	719.1	731.2	754.8	789.0	828.0
62.5°	375.7	381.5	411.8	476.8	548.1	634.3	649.8	651.7	662.3	696.5	741.7
65°	329.9	333.8	342.9	349.7	409.4	492.7	566.9	578.9	585.7	605.9	644.5
67.5°	227.3	287.5	295.7	300.6	306.3	344.9	436.9	498.0	505.7	523.6	557.3
70°	43.8	91.0	249.0	254.3	257.2	265.9	280.8	378.1	429.2	446.0	461.4
72.5°	29.9	35.2	42.4	100.2	211.9	216.7	220.1	232.6	318.9	368.0	376.2
75°	21.7	24.1	28.4	35.2	43.3	141.1	174.8	181.1	187.4	258.6	300.1
77.5°	15.4	17.3	19.3	22.6	26.5	34.2	49.1	135.3	141.6	145.0	204.7
80°	8.7	10.6	13.0	14.9	16.9	19.3	25.0	31.3	69.8	102.1	107.4
82.5°	4.8	5.8	6.7	8.2	9.2	11.6	14.0	16.9	22.2	32.8	69.4
85°	2.4	2.4	2.4	3.4	3.9	5.3	6.3	7.2	10.1	14.0	19.3
87.5°	1.4	1.4	1.9	1.9	1.9	2.4	2.4	2.4	2.9	4.3	6.3
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: P1213339

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1604.9	1604.9	1604.9	1604.9	1604.9
2.5°	1611.1	1609.7	1609.7	1615.5	1614.0
5°	1608.2	1606.8	1606.3	1612.6	1609.7
7.5°	1605.8	1600.5	1599.1	1604.9	1602.5
10°	1596.2	1592.4	1594.8	1592.8	1591.9
12.5°	1579.8	1577.4	1567.3	1568.3	1576.5
15°	1550.4	1560.1	1542.7	1558.2	1561.5
17.5°	1496.5	1518.2	1535.0	1544.2	1545.6
20°	1520.6	1527.8	1519.1	1519.6	1525.4
22.5°	1489.3	1492.6	1495.1	1492.2	1504.7
25°	1439.2	1426.2	1454.1	1459.9	1480.1
27.5°	1423.8	1413.2	1426.2	1425.2	1442.1
30°	1411.2	1377.1	1382.8	1392.0	1412.7
32.5°	1393.4	1339.5	1333.7	1353.9	1377.1
35°	1362.1	1311.1	1297.6	1310.6	1345.3
37.5°	1335.6	1271.6	1244.6	1261.9	1307.2
40°	1296.1	1240.7	1198.8	1214.3	1267.7
42.5°	1248.9	1214.3	1149.7	1160.3	1221.5
45°	1201.2	1170.4	1102.0	1107.3	1180.1
47.5°	1152.6	1124.2	1052.4	1053.4	1127.1
50°	1104.9	1067.3	1008.1	991.2	1070.7
52.5°	1042.8	1008.1	963.3	935.9	1017.3
55°	984.0	945.0	912.3	869.9	956.6
57.5°	926.7	883.4	861.2	806.8	887.7
60°	848.2	827.5	794.7	742.7	825.6
62.5°	767.8	761.0	727.8	673.8	749.0
65°	673.8	689.7	655.5	609.3	669.5
67.5°	585.2	613.6	576.1	547.6	592.9
70°	490.8	523.6	502.4	492.3	511.5
72.5°	397.8	429.6	431.6	424.3	430.6
75°	307.3	342.5	361.7	350.6	352.1
77.5°	233.1	250.0	271.2	279.8	277.9
80°	144.0	173.4	190.7	208.6	202.3
82.5°	72.7	97.3	118.5	137.8	128.6
85°	30.3	39.0	54.4	71.8	68.9
87.5°	9.2	15.4	16.4	23.1	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)