

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: P1212988

Luminaire Tested: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212988
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

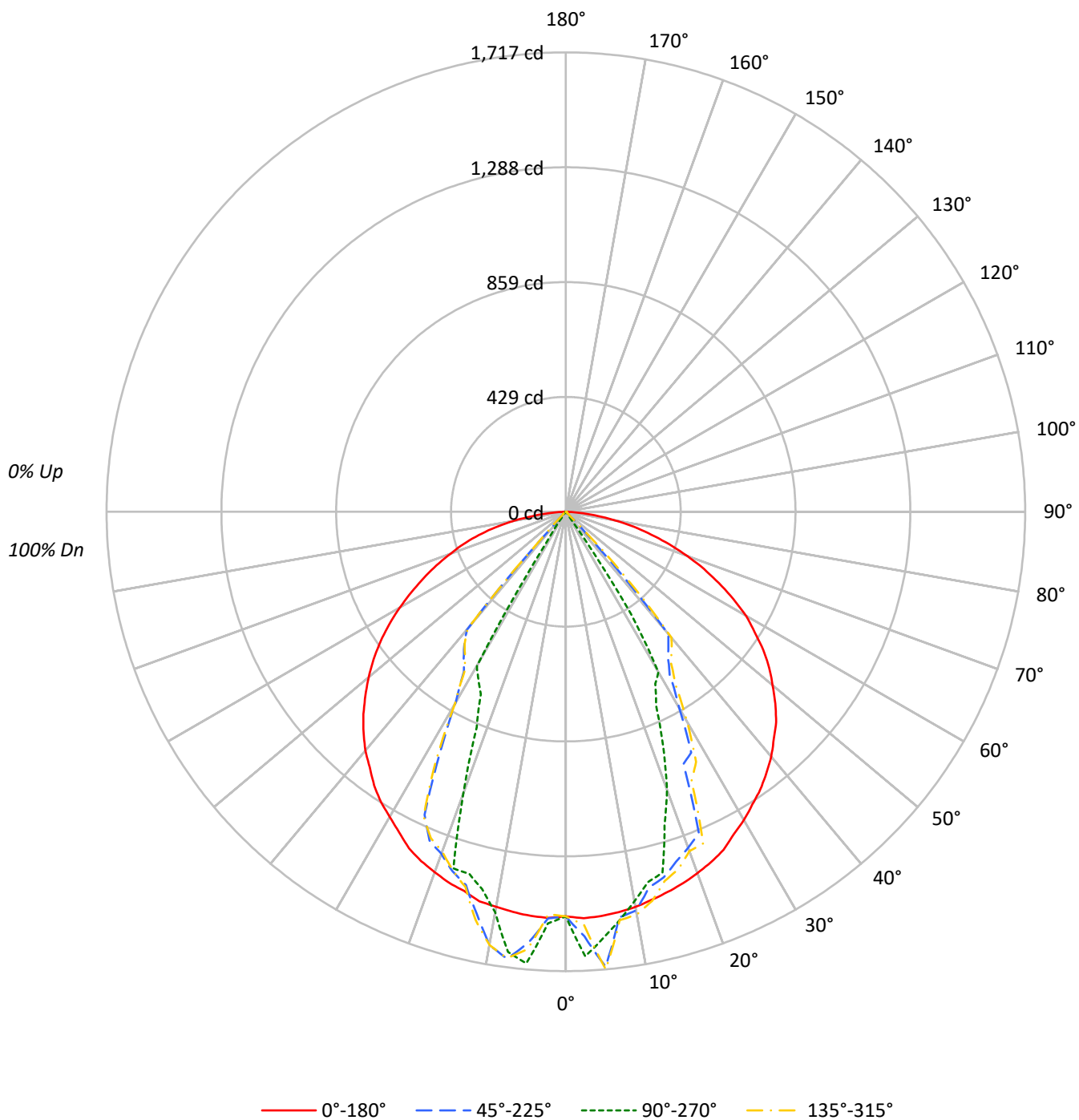
Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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

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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°	24437	24437	24437	24437
5°	24471	25134	24463	26617
10°	24345	22744	24331	23400
15°	24211	21228	24152	21284
20°	24169	16721	24100	16927
25°	24164	12100	24046	11419
30°	23974	10614	23720	10204
35°	23958	234	23606	284
40°	23944	51	23370	51
45°	23917	30	23018	23
50°	23607	24	22523	24
55°	23313	17	21882	17
60°	22686	18	20913	18
65°	21272	30	19755	19
70°	19435	33	18503	33
75°	16796	36	17074	36
80°	13097	42	13846	42
85°	7020	49	7171	49

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 25835 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	7.1
10°-20°	413.8	19.2
20°-30°	526.5	24.5
30°-40°	444.8	20.7
40°-50°	290.8	13.5
50°-60°	183.2	8.5
60°-70°	97.5	4.5
70°-80°	35.6	1.7
80°-90°	6.1	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°	1092.0	50.8
0°-40°	1536.8	71.5
0°-60°	2010.8	93.5
0°-90°	2150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1512	1512	1512	1512	1512	
5°	1517	1600	1516	1694	1517	144
15°	1471	1396	1468	1400	1471	416
25°	1394	797	1388	752	1394	641
35°	1267	15	1249	18	1267	793
45°	1112	2	1070	1	1112	855
55°	901	1	846	1	901	803
65°	631	1	586	1	631	625
75°	332	1	337	1	332	352
85°	65	1	66	1	65	82
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°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1520.7	1521.6	1522.0	1522.9	1524.3	1524.7	1525.7	1524.7	1524.7	1524.7	1524.7
5°	1516.6	1518.4	1519.8	1521.6	1524.7	1525.2	1528.8	1529.3	1531.1	1534.7	1537.5
7.5°	1509.8	1511.6	1514.3	1518.8	1523.4	1528.4	1534.7	1541.5	1551.1	1560.1	1571.5
10°	1499.8	1502.1	1505.2	1509.3	1531.6	1534.7	1548.8	1568.3	1573.8	1602.3	1623.7
12.5°	1485.3	1493.0	1501.1	1504.8	1526.1	1559.7	1606.9	1597.4	1586.9	1680.4	1679.0
15°	1471.2	1481.6	1477.6	1507.0	1526.6	1585.1	1565.1	1607.8	1685.8	1666.8	1667.7
17.5°	1456.2	1458.5	1481.2	1505.7	1540.6	1570.6	1595.1	1653.6	1669.1	1670.4	1653.6
20°	1437.2	1448.1	1481.2	1503.4	1562.4	1576.5	1629.6	1659.5	1653.2	1637.7	1609.2
22.5°	1417.7	1450.8	1484.4	1515.7	1557.0	1594.6	1621.0	1635.0	1601.9	1541.1	1508.4
25°	1394.5	1414.0	1458.0	1503.9	1555.6	1577.4	1592.8	1570.1	1527.0	1472.6	1417.7
27.5°	1358.7	1390.0	1446.2	1498.0	1544.7	1571.0	1546.1	1491.6	1422.2	1386.3	1361.4
30°	1331.0	1371.8	1418.1	1468.0	1516.6	1532.0	1468.5	1406.3	1358.7	1322.8	1317.4
32.5°	1297.4	1355.5	1399.5	1447.1	1488.0	1467.6	1405.9	1325.5	1286.1	1272.4	1277.9
35°	1267.4	1311.5	1369.1	1415.8	1445.3	1399.5	1301.9	1252.0	1233.0	1240.7	1230.7
37.5°	1231.6	1289.7	1342.8	1383.2	1373.2	1304.2	1221.6	1189.8	1192.1	1185.8	1166.7
40°	1194.4	1249.7	1305.1	1343.2	1308.3	1203.0	1148.1	1141.3	1142.7	1122.2	1095.0
42.5°	1150.8	1201.2	1256.6	1291.0	1215.7	1133.6	1096.4	1097.3	1085.5	1056.9	1042.4
45°	1111.8	1158.1	1215.7	1218.9	1126.3	1057.8	1046.9	1035.1	1008.8	999.3	988.4
47.5°	1061.9	1113.2	1160.8	1143.6	1038.7	996.1	987.9	962.0	948.9	941.6	932.5
50°	1008.8	1060.5	1104.1	1055.1	956.1	946.2	919.4	899.0	889.9	882.2	874.0
52.5°	958.4	1001.1	1045.5	961.1	892.6	883.1	852.7	840.9	831.8	823.2	821.4
55°	901.2	938.9	969.3	871.7	831.8	809.6	787.8	779.6	771.0	766.9	773.7
57.5°	836.3	879.0	874.5	783.7	766.0	733.8	725.6	720.2	713.8	716.5	659.8
60°	777.8	810.5	788.2	719.3	689.3	667.5	660.3	656.6	660.3	604.9	531.8
62.5°	705.6	742.4	697.5	643.9	612.2	601.7	595.4	600.4	547.3	486.5	468.8
65°	630.8	670.7	604.5	563.2	543.2	534.1	533.7	491.5	439.3	415.7	415.7
67.5°	558.6	599.9	514.6	480.1	472.4	473.3	447.0	383.0	368.5	352.6	306.8
70°	481.9	518.2	425.2	404.3	399.8	396.6	332.6	315.4	298.1	255.9	252.3
72.5°	405.7	423.4	341.7	336.7	335.8	279.1	266.4	236.9	216.9	211.9	209.7
75°	331.7	326.3	270.0	274.5	231.4	211.5	191.0	173.8	171.1	169.3	42.2
77.5°	261.8	234.6	212.8	185.1	165.6	140.7	136.6	133.9	88.0	31.8	25.9
80°	190.6	152.0	141.6	120.3	102.6	98.5	100.7	30.9	24.5	20.4	17.7
82.5°	121.2	97.1	79.4	69.4	67.6	29.5	21.8	17.7	15.4	13.2	10.9
85°	64.9	43.1	39.9	33.6	20.0	13.6	11.3	8.6	7.3	5.9	5.4
87.5°	20.4	17.2	14.1	11.3	6.8	4.5	3.6	3.2	2.7	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1523.8	1524.7	1524.3	1525.7	1525.7	1527.5	1528.8	1530.2	1532.9	1534.3	1544.7
5°	1543.4	1545.6	1552.4	1558.8	1566.5	1568.8	1581.9	1585.1	1600.5	1602.3	1653.2
7.5°	1586.9	1595.5	1611.9	1628.2	1644.5	1655.0	1673.1	1684.5	1696.7	1707.6	1748.0
10°	1639.6	1654.1	1670.0	1686.3	1695.8	1715.8	1726.7	1728.5	1725.3	1707.6	1642.3
12.5°	1691.3	1705.8	1699.0	1702.2	1713.5	1678.1	1683.1	1657.7	1675.4	1587.8	1522.9
15°	1684.0	1683.1	1666.3	1611.9	1621.0	1553.3	1526.1	1505.2	1522.0	1512.9	1503.0
17.5°	1662.2	1621.0	1591.9	1526.6	1498.9	1479.8	1480.3	1480.7	1472.6	1481.2	1455.8
20°	1570.1	1523.8	1480.7	1457.6	1449.4	1435.8	1442.6	1435.8	1436.3	1439.0	1400.0
22.5°	1447.6	1433.5	1408.6	1415.8	1413.1	1425.4	1416.3	1402.2	1406.8	1386.3	1356.8
25°	1398.1	1381.8	1380.9	1383.6	1379.5	1374.1	1365.9	1344.6	1343.2	1336.9	1323.3
27.5°	1348.2	1349.1	1351.9	1343.7	1329.2	1318.3	1306.0	1295.6	1299.7	1292.4	1273.8
30°	1313.7	1313.3	1296.9	1289.7	1262.9	1263.4	1260.2	1253.8	1249.7	1250.2	1238.4
32.5°	1264.7	1250.7	1232.1	1223.0	1220.7	1212.5	1206.2	1207.5	1210.7	1199.4	1211.6
35°	1214.4	1185.3	1182.6	1174.9	1167.6	1162.2	1164.4	1155.4	1154.9	1153.5	1053.7
37.5°	1146.7	1132.7	1131.3	1123.1	1118.1	1116.8	1108.2	1109.5	1113.6	1120.9	898.5
40°	1090.9	1078.2	1075.0	1074.6	1063.7	1062.8	1065.1	1073.7	1079.6	1034.2	856.3
42.5°	1031.0	1031.9	1021.9	1015.6	1017.0	1021.0	1031.9	1002.0	868.1	827.3	782.8
45°	979.7	975.2	969.8	967.9	979.7	971.6	851.8	786.0	770.1	768.3	643.5
47.5°	926.2	924.8	922.6	923.9	856.8	763.7	736.5	727.9	730.6	728.8	552.7
50°	872.2	874.0	874.0	763.3	700.7	685.2	687.5	695.2	647.1	604.0	515.1
52.5°	825.5	811.4	695.2	655.3	641.2	648.0	631.7	571.3	527.8	502.3	476.5
55°	738.8	635.3	609.4	603.1	608.1	547.7	510.5	471.5	460.1	457.4	442.4
57.5°	581.3	560.4	562.7	537.3	479.7	445.6	430.7	425.2	420.2	416.6	36.3
60°	514.1	520.0	476.0	421.6	398.4	393.9	390.3	385.3	384.4	378.0	23.1
62.5°	470.6	413.9	375.7	362.1	356.7	355.3	348.5	346.2	294.1	40.4	17.2
65°	354.9	331.7	324.5	321.3	315.4	315.4	261.8	41.3	33.6	29.0	15.4
67.5°	289.5	287.7	284.1	280.0	190.6	39.9	34.9	30.4	26.3	23.1	13.6
70°	245.0	244.1	222.4	40.8	34.0	30.0	26.3	23.6	21.8	19.5	12.3
72.5°	201.0	40.8	34.5	30.0	25.9	23.6	21.3	19.1	17.2	15.9	10.0
75°	31.3	27.7	24.5	22.2	20.4	18.2	16.3	15.0	14.5	12.7	6.8
77.5°	22.7	19.5	17.7	15.9	14.1	12.7	10.9	9.5	8.6	7.3	5.0
80°	15.9	14.1	12.7	10.4	9.1	7.7	6.8	5.9	5.4	4.5	2.3
82.5°	9.1	7.7	6.8	5.4	5.0	4.1	3.6	3.2	3.2	2.3	2.3
85°	4.1	4.1	3.2	2.7	2.3	2.3	2.3	1.8	1.8	1.4	1.4
87.5°	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4	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°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1559.2	1565.1	1576.5	1588.3	1575.1	1622.3	1618.7	1634.6	1643.2	1647.3	1656.8
5°	1698.1	1724.4	1733.0	1707.2	1692.2	1676.8	1641.8	1615.5	1618.7	1610.1	1578.7
7.5°	1695.4	1639.1	1563.3	1528.8	1526.1	1522.0	1532.9	1539.3	1540.2	1539.7	1538.8
10°	1552.0	1522.9	1517.9	1513.4	1515.2	1498.4	1490.7	1468.9	1480.7	1474.4	1476.6
12.5°	1508.4	1501.6	1474.8	1437.6	1459.9	1443.1	1433.5	1439.9	1432.6	1425.8	1423.6
15°	1482.5	1438.5	1423.6	1414.5	1408.1	1404.5	1407.7	1400.4	1398.1	1396.8	1400.0
17.5°	1429.0	1411.3	1395.0	1370.9	1371.4	1370.0	1379.1	1392.7	1393.6	1323.7	1260.6
20°	1386.8	1372.3	1351.4	1336.4	1356.8	1320.5	1180.3	1113.6	1103.2	1103.2	1105.0
22.5°	1353.2	1321.0	1322.4	1298.8	1107.7	1068.7	1069.6	1073.7	1055.1	991.5	984.7
25°	1307.4	1302.4	1203.0	1039.6	1041.0	1010.6	963.9	898.1	826.8	826.8	815.0
27.5°	1272.9	1167.2	1021.9	1015.1	913.0	848.6	808.7	748.3	740.1	732.4	733.3
30°	1243.4	987.5	991.1	848.6	773.3	719.7	716.5	706.6	701.6	700.2	695.2
32.5°	982.9	961.6	829.5	722.4	692.9	684.3	680.2	668.9	668.4	659.8	599.9
35°	921.7	844.1	694.3	665.3	656.6	648.5	641.7	430.7	50.8	20.4	17.7
37.5°	851.8	705.2	642.1	629.0	620.8	458.8	45.8	15.9	11.3	8.2	7.3
40°	722.0	629.9	609.9	595.4	245.5	15.9	10.0	7.7	4.5	4.1	3.6
42.5°	609.0	593.6	572.2	174.3	18.2	7.7	5.0	3.6	3.2	3.2	2.7
45°	570.0	556.4	230.5	17.2	11.3	3.6	3.2	3.2	2.7	1.8	1.8
47.5°	533.7	469.7	20.9	10.9	7.3	3.2	2.7	1.8	1.8	1.8	1.4
50°	495.1	25.9	14.5	8.2	4.5	1.8	1.8	1.8	1.8	1.4	1.4
52.5°	92.6	18.2	11.8	7.3	2.3	1.8	1.8	1.8	1.4	1.4	1.4
55°	21.8	14.5	10.9	6.4	1.8	1.8	1.8	1.4	1.4	1.4	0.9
57.5°	16.3	10.9	8.6	5.9	1.8	1.4	1.4	1.4	1.4	1.4	0.9
60°	13.6	7.7	6.8	5.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9
62.5°	9.5	6.4	5.0	4.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	7.7	5.0	4.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	6.8	4.1	2.7	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	5.4	1.4	1.4	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	4.5	1.4	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	4.5	2.3	0.9	0.9	1.4	1.4	1.8	1.8	1.4	1.4	1.4
77.5°	3.2	2.3	0.9	0.9	1.4	1.4	1.8	1.8	1.4	1.4	1.4
80°	1.8	2.3	0.9	1.4	1.4	2.7	3.2	1.8	1.4	1.4	1.4
82.5°	1.8	2.3	2.7	2.7	1.4	2.3	2.7	2.3	1.8	1.4	1.4
85°	1.8	1.4	1.8	2.3	1.4	2.3	2.3	1.8	1.8	1.4	1.4
87.5°	0.9	1.4	1.4	1.8	1.8	1.8	2.3	1.8	1.8	1.8	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: P1212988

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1661.3	1663.2	1634.6	1624.6	1633.2	1631.4	1623.7	1595.1	1591.9	1572.8	1545.2
5°	1587.8	1600.1	1585.1	1611.0	1598.7	1611.0	1648.2	1665.4	1693.6	1710.8	1717.2
7.5°	1536.5	1539.3	1539.3	1541.5	1543.8	1544.3	1541.5	1539.7	1532.0	1522.5	1539.7
10°	1474.4	1477.6	1483.0	1482.1	1481.6	1491.2	1493.4	1512.9	1512.0	1515.7	1528.8
12.5°	1442.2	1417.7	1439.9	1434.0	1442.2	1429.5	1453.0	1449.0	1450.3	1461.2	1489.4
15°	1388.6	1396.3	1401.8	1401.8	1404.9	1402.2	1399.5	1418.1	1429.5	1429.9	1428.1
17.5°	1285.6	1227.1	1287.0	1271.5	1394.5	1397.7	1387.2	1378.6	1378.6	1385.4	1400.0
20°	1103.6	1105.0	1105.4	1111.3	1118.6	1118.1	1118.6	1297.4	1382.3	1362.7	1349.6
22.5°	967.5	950.7	982.0	979.7	1018.8	1061.9	1103.2	1099.1	1101.8	1228.0	1341.4
25°	775.5	797.3	779.6	787.3	831.4	882.6	914.4	997.4	1087.7	1081.4	1110.9
27.5°	730.2	724.3	732.4	732.4	738.3	745.1	762.8	809.6	889.9	974.3	1054.2
30°	687.0	692.0	692.9	701.1	705.6	710.2	712.9	730.6	748.8	807.3	905.8
32.5°	516.0	452.4	595.4	633.9	666.6	674.3	679.8	687.0	700.2	708.8	758.3
35°	15.0	15.0	15.9	18.2	23.1	156.1	594.5	655.3	663.9	674.8	683.9
37.5°	7.3	5.4	6.4	6.8	8.2	11.3	16.3	50.8	565.9	639.8	649.8
40°	3.2	3.2	3.2	3.2	3.6	4.5	6.8	11.3	17.2	455.2	614.0
42.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.2	4.1	8.2	19.5	322.2
45°	1.8	1.8	1.4	1.8	1.8	2.3	2.7	2.7	3.6	12.3	22.2
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.7	8.2	11.8
50°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	6.4	8.2
52.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	7.3
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.8	6.4
57.5°	0.9	0.9	0.9	0.9	0.9	1.4	0.9	0.9	1.4	1.4	5.9
60°	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	5.4
62.5°	1.4	1.4	0.9	1.4	0.9	0.9	1.4	1.4	1.4	1.4	3.6
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	1.4
67.5°	1.4	1.4	1.4	1.4	0.9	1.4	0.9	1.4	1.4	0.9	0.9
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	0.9	0.9	0.9
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.7	2.3	2.3	0.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.3	2.3	2.3	3.2
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8	1.8	2.3
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8	1.4	1.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	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: P1212988

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1547.4	1532.0	1527.0	1516.6	1515.7	1516.6	1514.3	1511.1	1512.9	1509.8	1507.0
5°	1720.8	1679.5	1652.7	1616.9	1567.4	1556.5	1553.8	1538.4	1532.9	1531.1	1523.8
7.5°	1580.6	1655.9	1701.3	1716.7	1658.6	1645.0	1629.1	1616.4	1604.2	1581.0	1566.9
10°	1518.4	1522.0	1565.6	1616.4	1699.0	1710.3	1719.0	1691.3	1683.6	1624.6	1611.9
12.5°	1503.9	1504.3	1509.3	1540.2	1605.1	1612.3	1642.7	1659.1	1679.0	1690.4	1681.3
15°	1437.6	1474.4	1501.6	1504.3	1510.2	1522.9	1532.0	1588.7	1612.8	1677.2	1673.6
17.5°	1406.8	1418.6	1458.0	1490.3	1484.8	1480.3	1487.5	1495.3	1518.4	1582.8	1581.9
20°	1355.5	1393.1	1414.5	1448.1	1478.5	1479.8	1471.7	1467.1	1458.0	1468.5	1478.0
22.5°	1333.7	1339.6	1379.5	1403.1	1437.6	1449.9	1451.7	1452.1	1447.1	1441.7	1439.0
25°	1331.4	1312.8	1333.2	1362.7	1388.2	1401.3	1416.3	1421.3	1419.5	1419.5	1416.7
27.5°	1089.6	1306.9	1296.0	1315.5	1346.4	1355.5	1363.2	1378.6	1388.2	1395.0	1398.1
30°	1037.8	1076.9	1267.0	1269.7	1301.0	1300.1	1308.7	1321.4	1333.7	1349.6	1353.7
32.5°	918.0	1013.8	1159.9	1223.9	1256.6	1259.7	1264.3	1267.9	1279.2	1296.9	1312.4
35°	735.6	923.5	993.8	1202.1	1208.0	1214.4	1217.1	1225.7	1229.3	1236.6	1250.2
37.5°	665.7	763.3	953.4	1039.6	1152.2	1157.6	1172.1	1175.8	1181.7	1187.6	1198.0
40°	625.3	652.1	793.7	928.5	1107.3	1110.9	1115.9	1125.0	1125.4	1132.2	1141.7
42.5°	593.1	610.4	651.6	886.7	1075.5	1075.0	1063.2	1069.1	1071.9	1079.1	1092.3
45°	473.8	572.7	599.0	724.3	856.3	918.0	1036.5	1017.0	1016.5	1019.2	1033.3
47.5°	24.1	538.7	557.3	597.6	808.7	810.9	826.4	956.1	976.1	969.8	971.1
50°	16.3	37.2	519.1	537.7	697.0	753.3	764.6	770.5	845.4	928.9	915.3
52.5°	12.7	21.3	318.1	499.2	566.3	607.6	680.7	722.4	727.0	760.6	874.5
55°	11.3	16.3	34.5	460.6	481.5	490.6	533.2	606.3	665.3	683.0	684.3
57.5°	10.0	15.0	23.6	208.3	437.9	439.7	447.0	472.4	525.5	574.0	629.0
60°	9.1	13.2	18.6	35.8	398.0	402.5	403.9	410.7	417.0	450.2	513.2
62.5°	5.4	10.4	16.3	25.9	314.9	361.7	361.2	365.8	371.7	375.3	388.0
65°	4.5	8.2	14.1	21.8	38.6	48.1	292.2	324.9	328.5	333.5	335.8
67.5°	4.1	7.3	10.4	17.2	29.0	33.1	38.1	47.2	257.8	290.4	295.0
70°	3.6	5.0	8.6	14.5	23.6	25.4	28.6	32.7	38.6	47.6	233.2
72.5°	2.3	3.6	5.9	10.4	18.2	20.4	22.2	25.0	27.7	33.1	38.1
75°	0.9	2.7	5.0	7.7	14.1	15.4	16.8	18.6	20.9	24.5	27.2
77.5°	0.9	2.3	4.1	5.4	9.1	10.4	12.3	13.6	15.4	17.2	20.0
80°	3.2	1.8	2.7	4.1	6.4	6.8	7.7	8.6	10.0	11.3	13.2
82.5°	2.3	2.7	3.2	2.7	3.2	4.1	4.5	5.4	5.9	6.8	7.3
85°	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.7	3.2	4.1
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8
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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CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1507.0	1506.1	1503.4	1503.4	1503.0	1504.8	1506.1	1507.5	1507.0	1509.8	1507.0
5°	1518.4	1516.1	1512.0	1508.4	1507.0	1508.0	1506.6	1508.0	1506.1	1508.4	1504.3
7.5°	1549.7	1542.0	1526.1	1519.8	1511.6	1511.1	1507.0	1506.1	1503.4	1503.4	1498.4
10°	1605.1	1567.9	1563.3	1544.3	1537.5	1504.3	1511.6	1499.3	1498.0	1492.1	1489.8
12.5°	1650.4	1621.4	1612.8	1596.0	1576.9	1509.8	1524.7	1498.4	1497.1	1485.3	1473.0
15°	1651.4	1668.1	1644.5	1598.3	1594.2	1547.9	1517.5	1508.4	1496.6	1461.2	1467.1
17.5°	1598.3	1636.8	1648.2	1638.2	1609.2	1577.8	1535.2	1517.0	1481.6	1465.8	1454.9
20°	1512.0	1551.1	1599.6	1602.8	1621.0	1598.7	1542.9	1513.4	1470.7	1443.1	1434.0
22.5°	1443.5	1472.1	1527.9	1553.8	1576.0	1583.7	1548.3	1504.8	1451.7	1424.9	1419.5
25°	1407.2	1413.6	1430.4	1460.8	1509.8	1545.2	1550.2	1503.9	1476.2	1417.7	1386.8
27.5°	1394.1	1388.6	1381.8	1397.2	1434.0	1477.1	1505.7	1513.4	1444.4	1388.6	1357.8
30°	1360.5	1363.7	1353.2	1347.8	1371.8	1416.3	1467.1	1479.8	1426.7	1369.1	1333.7
32.5°	1319.2	1324.6	1326.4	1316.9	1311.9	1342.8	1397.7	1428.1	1425.4	1341.4	1301.9
35°	1267.4	1282.9	1287.0	1287.4	1279.2	1274.3	1306.0	1369.1	1393.1	1328.7	1271.5
37.5°	1213.0	1217.5	1239.8	1245.7	1245.7	1230.7	1254.3	1304.7	1338.2	1300.1	1234.3
40°	1144.9	1159.4	1180.3	1190.8	1201.2	1202.6	1189.4	1224.8	1280.2	1270.6	1199.4
42.5°	1095.5	1105.0	1117.7	1131.8	1153.1	1158.5	1144.9	1151.3	1208.9	1233.9	1154.0
45°	1037.8	1050.5	1054.2	1069.6	1091.8	1107.7	1107.3	1094.1	1140.4	1171.2	1120.9
47.5°	978.8	991.1	997.4	1005.2	1021.5	1041.9	1053.3	1047.4	1056.4	1116.8	1076.9
50°	918.0	924.8	937.5	946.2	957.1	968.8	996.1	1001.5	988.8	1036.9	1028.3
52.5°	860.4	862.7	871.3	879.9	894.4	903.0	924.8	941.2	940.3	954.3	974.3
55°	815.5	805.5	807.3	814.1	823.6	836.8	849.0	874.5	883.1	885.8	917.6
57.5°	637.1	739.7	748.8	748.3	759.7	765.6	776.9	793.7	824.5	817.7	853.1
60°	579.0	590.4	676.2	686.1	690.2	695.7	709.3	724.7	747.4	761.9	777.3
62.5°	441.5	510.5	536.4	612.2	624.0	627.1	636.2	643.5	667.1	700.2	693.9
65°	341.7	371.2	450.2	481.0	545.5	553.6	566.3	574.0	580.9	619.0	620.8
67.5°	295.4	300.0	321.3	380.7	421.6	484.7	492.4	499.2	509.6	536.8	553.6
70°	252.3	257.8	263.7	268.6	321.7	363.5	422.0	424.3	431.1	449.3	487.4
72.5°	47.6	215.6	219.2	222.4	228.3	255.9	311.8	357.1	359.9	368.5	403.4
75°	32.2	37.7	51.7	177.9	183.8	185.6	195.1	251.9	293.6	295.4	310.8
77.5°	23.1	25.9	31.3	37.2	94.8	142.5	144.8	155.2	198.3	229.6	232.3
80°	15.9	17.7	20.9	23.6	29.0	38.1	105.3	108.5	113.9	157.0	165.2
82.5°	9.1	10.4	12.3	15.0	17.2	21.8	28.1	36.3	74.0	79.0	104.8
85°	4.5	5.0	5.9	7.3	8.6	10.4	14.1	17.2	23.6	42.7	44.0
87.5°	2.3	2.3	2.3	2.3	3.6	4.1	5.0	6.4	8.2	12.3	15.9
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: P1212988

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1507.5	1513.9	1519.3	1520.7	1520.7	1521.6	1522.9	1523.8	1524.7	1525.7	1524.7
5°	1504.8	1511.6	1516.1	1517.5	1517.5	1520.2	1522.5	1525.2	1526.6	1526.6	1525.7
7.5°	1498.0	1503.0	1508.9	1512.5	1512.9	1517.5	1521.6	1521.1	1522.9	1523.8	1526.1
10°	1488.9	1488.9	1498.9	1501.6	1503.9	1508.9	1510.2	1512.9	1519.3	1520.2	1526.1
12.5°	1484.4	1479.8	1491.6	1493.0	1500.7	1494.3	1502.5	1505.2	1498.9	1507.5	1496.2
15°	1463.9	1469.4	1467.6	1471.7	1485.3	1478.0	1500.2	1493.0	1509.3	1489.8	1524.3
17.5°	1447.1	1446.2	1453.5	1457.1	1459.9	1475.3	1481.2	1489.4	1495.7	1490.3	1503.9
20°	1434.9	1427.6	1433.1	1437.2	1446.7	1458.5	1462.1	1449.9	1471.2	1507.5	1516.1
22.5°	1411.8	1406.8	1413.1	1413.1	1427.6	1425.8	1439.4	1431.7	1451.7	1493.9	1537.9
25°	1380.4	1380.9	1387.7	1395.9	1398.6	1419.0	1426.3	1436.3	1461.2	1511.6	1538.4
27.5°	1348.7	1346.0	1350.0	1366.8	1380.9	1395.9	1398.1	1432.2	1466.2	1500.7	1524.3
30°	1316.9	1314.2	1316.9	1329.2	1346.0	1355.9	1380.9	1426.3	1458.0	1481.6	1503.9
32.5°	1282.9	1280.2	1286.5	1295.6	1325.1	1326.4	1375.9	1418.6	1443.5	1460.8	1456.7
35°	1246.6	1242.9	1248.8	1262.9	1290.1	1300.1	1351.9	1383.6	1411.8	1419.9	1400.9
37.5°	1203.0	1196.7	1203.9	1223.4	1252.0	1281.1	1324.2	1360.9	1375.9	1354.1	1331.4
40°	1157.6	1153.1	1165.8	1175.8	1209.4	1249.7	1299.2	1325.1	1315.5	1290.6	1265.6
42.5°	1117.2	1107.7	1119.1	1138.1	1176.2	1222.1	1262.0	1276.5	1253.8	1217.1	1188.0
45°	1067.8	1056.4	1070.0	1095.5	1136.3	1188.5	1219.8	1214.8	1176.2	1144.5	1104.5
47.5°	1016.0	1002.4	1016.0	1046.4	1092.3	1147.6	1170.3	1147.6	1099.1	1059.2	1026.9
50°	965.2	949.3	962.5	1008.3	1053.3	1095.9	1095.5	1051.4	1022.4	978.8	950.7
52.5°	914.8	892.2	905.3	955.2	1000.2	1048.7	1012.9	972.0	937.1	899.0	889.9
55°	852.7	828.2	845.9	918.5	953.0	981.6	924.4	888.5	854.0	835.0	823.6
57.5°	793.7	766.9	782.3	868.1	893.5	900.8	848.1	797.3	776.9	770.5	754.2
60°	732.9	702.5	717.0	815.9	833.6	804.1	752.4	712.9	708.8	696.1	683.4
62.5°	674.8	641.2	650.3	751.0	759.2	705.6	658.0	647.6	637.6	624.9	618.1
65°	608.1	573.1	585.8	682.1	674.3	605.4	578.6	576.3	563.2	552.7	562.7
67.5°	546.8	505.5	523.2	606.7	571.8	515.5	504.6	499.2	488.7	494.6	389.8
70°	479.7	434.7	458.8	525.5	473.8	436.5	432.5	424.3	424.8	337.6	284.5
72.5°	404.8	365.8	400.7	436.5	374.8	363.9	358.0	357.1	288.2	234.2	221.0
75°	339.0	299.5	337.2	350.8	298.6	291.3	290.9	240.5	189.2	180.6	176.5
77.5°	264.6	234.2	270.0	249.6	229.2	221.0	198.3	148.8	142.5	136.6	51.3
80°	178.3	180.6	201.5	172.0	163.4	139.3	109.8	105.3	90.8	36.3	28.6
82.5°	108.5	136.1	128.4	107.5	105.3	75.8	69.4	35.4	26.3	20.9	18.2
85°	56.3	69.0	66.3	58.5	43.6	39.0	21.8	16.8	13.6	10.4	8.6
87.5°	19.1	25.4	24.5	19.5	15.0	11.8	7.7	6.4	4.5	3.6	3.2
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1523.8	1523.8	1522.9	1523.8	1524.3	1523.4	1523.4	1524.3	1524.7	1525.2	1527.5
5°	1526.1	1527.0	1528.4	1531.1	1531.6	1537.0	1539.3	1540.6	1542.0	1542.4	1539.3
7.5°	1531.1	1534.3	1537.0	1536.5	1533.4	1524.7	1522.0	1519.8	1523.8	1534.3	1546.5
10°	1535.6	1521.1	1493.9	1531.1	1519.8	1530.2	1561.1	1567.9	1588.7	1618.2	1626.9
12.5°	1504.3	1544.3	1552.9	1511.1	1588.3	1559.7	1593.7	1623.7	1632.3	1662.2	1644.1
15°	1537.9	1557.4	1570.6	1612.3	1607.8	1632.3	1641.8	1635.9	1637.3	1645.0	1665.4
17.5°	1537.5	1576.5	1585.1	1613.2	1632.3	1632.7	1630.0	1627.3	1634.6	1640.5	1628.2
20°	1563.8	1576.5	1593.3	1604.6	1608.2	1612.8	1621.4	1614.6	1601.0	1587.8	1582.4
22.5°	1550.6	1579.2	1593.7	1595.5	1593.3	1579.2	1566.5	1547.4	1541.1	1534.3	1536.5
25°	1553.3	1566.5	1564.7	1557.4	1547.9	1521.6	1515.2	1507.0	1494.8	1465.3	1438.5
27.5°	1533.8	1527.0	1518.8	1501.1	1483.9	1469.8	1454.0	1427.6	1405.9	1374.1	1362.3
30°	1501.1	1473.9	1454.0	1443.5	1426.7	1403.1	1379.1	1346.9	1319.2	1312.8	1306.9
32.5°	1438.5	1411.8	1395.4	1370.0	1341.4	1313.3	1285.6	1272.9	1267.0	1267.9	1262.5
35°	1374.5	1350.9	1326.4	1288.3	1267.0	1238.9	1228.9	1226.2	1220.7	1214.8	1208.5
37.5°	1306.5	1278.8	1242.0	1219.3	1198.0	1186.7	1181.7	1177.6	1168.1	1157.6	1150.4
40°	1240.7	1190.8	1170.3	1148.1	1141.7	1136.8	1129.5	1119.5	1106.3	1104.5	1101.4
42.5°	1152.6	1116.8	1099.1	1094.6	1086.8	1078.2	1071.9	1061.0	1055.5	1059.2	1061.9
45°	1069.1	1051.0	1045.1	1039.6	1025.1	1012.9	1008.8	1005.2	1009.7	1029.7	982.0
47.5°	1001.5	994.3	987.0	977.9	964.3	955.2	959.3	963.0	967.0	820.5	748.8
50°	943.0	933.0	921.7	911.7	903.5	902.6	923.9	859.9	720.2	716.5	643.9
52.5°	879.0	864.0	857.2	851.3	854.9	868.6	718.8	667.1	639.8	555.9	518.7
55°	810.0	796.9	796.9	802.3	782.8	634.4	626.7	541.8	490.6	476.0	470.1
57.5°	741.0	739.7	747.4	683.4	575.9	552.3	464.2	445.6	437.5	435.6	426.1
60°	678.0	690.7	578.1	531.8	462.4	417.0	404.3	402.1	393.4	390.3	381.6
62.5°	627.6	520.5	484.7	395.7	372.6	366.7	359.9	356.7	349.0	308.1	90.3
65°	453.3	428.4	347.6	332.6	330.8	322.2	319.5	287.3	67.6	45.4	38.6
67.5°	342.2	303.6	293.2	290.4	281.8	264.6	78.5	44.9	38.6	33.6	29.5
70°	262.7	255.9	248.2	241.9	71.2	44.5	38.6	32.7	28.1	25.0	22.7
72.5°	215.1	210.6	122.5	46.7	38.1	32.2	28.6	25.0	21.8	20.0	18.2
75°	168.4	46.7	38.6	32.2	27.7	23.6	20.9	18.6	16.8	15.4	14.1
77.5°	38.1	30.9	26.3	22.2	20.0	17.7	15.9	13.6	12.3	10.9	9.1
80°	23.6	20.4	17.2	15.9	13.6	11.3	10.0	9.1	7.3	6.8	5.9
82.5°	15.4	12.3	10.9	9.1	7.3	6.8	5.9	4.5	4.1	3.6	3.2
85°	6.8	5.9	5.0	4.1	3.2	2.7	2.3	1.8	1.8	1.8	1.8
87.5°	2.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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

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CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1528.4	1536.5	1544.3	1542.0	1533.8	1521.1	1517.5	1512.5	1516.1	1523.8	1527.0
5°	1539.3	1534.7	1551.1	1575.1	1614.1	1617.8	1645.0	1651.4	1673.1	1686.8	1686.3
7.5°	1554.7	1619.1	1645.9	1675.0	1688.1	1684.9	1689.0	1685.8	1680.9	1678.6	1675.9
10°	1633.2	1682.2	1692.2	1692.2	1671.8	1644.1	1632.3	1611.9	1571.0	1571.9	1565.1
12.5°	1679.0	1696.3	1672.7	1652.7	1570.6	1538.8	1504.3	1488.0	1478.5	1463.9	1469.4
15°	1655.0	1630.5	1616.4	1552.0	1501.6	1444.4	1445.3	1435.3	1424.9	1425.8	1419.0
17.5°	1619.6	1600.1	1500.2	1455.8	1431.3	1409.0	1404.9	1391.8	1385.0	1382.7	1382.3
20°	1571.0	1500.7	1426.3	1415.4	1385.9	1360.5	1356.4	1360.5	1381.3	1344.1	1218.0
22.5°	1514.3	1413.1	1391.3	1360.5	1340.5	1330.5	1355.5	1242.0	1070.5	1091.4	1069.1
25°	1418.1	1374.1	1336.9	1313.3	1311.0	1249.7	1041.5	1019.7	909.4	850.4	784.2
27.5°	1347.8	1328.7	1289.7	1285.6	1256.1	1021.9	913.5	793.7	749.7	742.9	728.3
30°	1305.1	1277.9	1254.3	1151.3	1002.4	822.7	732.9	716.1	708.4	700.2	687.5
32.5°	1253.8	1228.0	1239.3	967.9	799.1	708.4	690.2	678.0	663.9	658.5	612.6
35°	1201.6	1189.8	968.4	813.7	687.0	665.3	651.6	638.9	508.2	123.0	41.7
37.5°	1145.8	1143.1	870.4	675.2	643.5	623.1	584.5	120.7	28.6	19.5	14.5
40°	1102.3	870.8	688.0	633.0	607.2	575.0	80.8	20.0	12.7	7.7	5.0
42.5°	1073.2	783.2	615.8	594.0	537.7	59.4	20.4	8.6	5.0	4.1	3.2
45°	827.3	618.5	575.4	552.7	68.1	20.4	11.8	4.1	3.2	2.7	1.8
47.5°	763.3	561.8	536.4	120.7	22.7	10.9	8.2	2.7	1.8	1.8	1.8
50°	578.1	519.1	427.0	29.5	14.5	7.7	5.9	1.8	1.8	1.8	1.4
52.5°	506.9	479.2	45.8	19.5	11.3	5.9	3.6	1.4	1.4	1.4	1.4
55°	463.3	304.0	27.2	15.0	9.5	5.4	2.3	1.4	1.4	1.4	0.9
57.5°	423.8	40.8	20.0	12.7	8.6	5.0	1.4	1.4	1.4	1.4	0.9
60°	359.4	29.5	16.3	11.3	8.2	4.5	1.4	1.4	1.4	1.4	1.4
62.5°	46.7	23.1	14.1	10.0	5.9	3.6	0.9	1.4	1.4	1.4	1.4
65°	34.0	18.2	12.7	6.8	3.6	1.4	0.9	1.4	1.4	1.4	1.4
67.5°	26.3	15.0	9.5	5.9	3.2	0.9	0.9	1.4	1.4	1.4	1.4
70°	20.9	12.7	7.7	5.0	2.7	0.9	0.9	1.4	1.4	1.4	1.4
72.5°	16.3	9.1	5.4	2.7	1.8	0.9	0.9	1.4	1.4	1.4	1.4
75°	12.3	7.3	4.1	2.3	0.9	0.9	0.9	1.4	1.4	1.4	1.4
77.5°	8.2	4.5	3.2	1.8	1.8	1.8	2.3	2.3	1.4	1.4	1.4
80°	5.4	3.2	2.3	2.3	2.3	1.8	2.3	2.3	1.4	2.3	1.4
82.5°	2.7	2.3	2.3	1.8	1.8	1.4	1.8	1.8	1.8	1.8	1.4
85°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.4
87.5°	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.8	1.8	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: P1212988

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1522.9	1524.3	1520.7	1540.2	1530.2	1531.1	1535.2	1524.7	1527.0	1519.8	1514.8
5°	1688.1	1690.8	1693.6	1694.5	1696.3	1698.6	1695.8	1694.5	1691.7	1682.7	1673.1
7.5°	1662.2	1659.1	1657.7	1659.5	1662.7	1664.1	1661.8	1665.0	1676.8	1681.8	1684.9
10°	1526.1	1511.6	1521.6	1520.2	1508.9	1547.0	1536.5	1542.4	1546.5	1588.3	1613.7
12.5°	1461.2	1470.3	1453.0	1444.4	1455.8	1463.5	1471.2	1454.9	1477.6	1467.1	1500.7
15°	1406.8	1401.3	1399.5	1400.0	1397.7	1408.6	1411.3	1414.9	1418.1	1432.2	1437.6
17.5°	1382.3	1391.3	1395.0	1397.7	1393.1	1388.2	1383.2	1375.9	1378.2	1374.5	1385.0
20°	1133.1	1102.7	1100.9	1118.6	1099.1	1110.0	1136.3	1312.4	1306.5	1375.0	1351.9
22.5°	945.7	917.1	892.6	871.3	901.7	914.4	963.4	1018.8	1108.6	1094.6	1192.1
25°	772.4	761.9	755.6	752.4	754.7	753.8	764.6	790.5	831.4	927.6	1051.9
27.5°	722.4	717.4	715.2	707.9	713.4	711.5	720.2	725.6	737.9	747.4	787.8
30°	683.0	677.1	673.0	665.3	670.7	671.2	673.9	688.0	692.9	701.1	713.8
32.5°	249.6	147.0	138.0	131.1	143.4	187.0	328.1	573.6	654.4	660.7	675.2
35°	24.5	20.4	18.2	18.2	18.6	20.4	27.2	71.7	131.1	506.9	634.4
37.5°	9.5	8.2	6.8	6.4	6.8	7.7	10.4	13.6	18.6	38.6	172.0
40°	4.1	3.6	3.2	3.2	3.2	3.2	3.6	4.5	6.8	12.7	20.0
42.5°	2.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.2	4.1	8.2
45°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.3	3.6
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8
50°	1.4	1.4	1.4	1.4	0.9	1.4	0.9	1.4	1.4	1.4	1.4
52.5°	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
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	1.4	1.4	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	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°	1.4	1.4	0.9	1.4	0.9	0.9	1.4	1.4	1.4	0.9	0.9
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	1.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.7	2.3
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.3	2.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8
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: P1212988

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1506.1	1505.7	1515.2	1522.5	1519.8	1522.5	1525.7	1526.1	1527.0	1523.4	1522.0
5°	1655.0	1640.9	1613.7	1594.2	1571.5	1530.2	1509.8	1512.0	1512.5	1511.1	1512.9
7.5°	1683.6	1682.2	1672.7	1668.6	1653.2	1623.7	1576.5	1568.3	1548.3	1535.6	1525.2
10°	1611.9	1644.5	1653.2	1667.7	1676.8	1671.3	1631.4	1625.5	1612.8	1598.3	1601.4
12.5°	1534.3	1561.1	1562.4	1641.4	1659.1	1660.9	1645.5	1653.6	1655.4	1622.8	1603.7
15°	1439.0	1451.7	1478.5	1552.0	1605.5	1639.1	1649.1	1653.6	1631.4	1630.0	1622.3
17.5°	1397.2	1405.4	1417.7	1458.9	1540.2	1589.6	1631.8	1628.7	1637.3	1630.9	1611.4
20°	1344.6	1351.4	1373.2	1394.1	1434.0	1499.8	1578.7	1584.6	1596.0	1594.6	1600.1
22.5°	1343.7	1319.6	1323.3	1339.6	1381.3	1440.3	1524.3	1543.8	1551.1	1556.1	1562.0
25°	1066.0	1257.0	1292.0	1302.4	1329.6	1364.1	1463.0	1470.3	1483.9	1506.1	1522.5
27.5°	923.5	1053.3	1193.0	1265.6	1282.9	1311.5	1370.5	1381.3	1427.6	1433.1	1458.5
30°	728.8	829.1	1037.8	1212.5	1241.1	1261.1	1302.8	1324.6	1344.6	1366.4	1393.1
32.5°	685.7	701.6	817.3	1003.3	1225.7	1210.7	1241.6	1254.7	1276.5	1295.6	1315.1
35°	646.2	657.1	681.6	821.8	998.3	1169.4	1190.3	1198.9	1211.2	1225.7	1239.8
37.5°	604.9	621.2	638.0	675.7	923.5	1136.8	1136.3	1146.3	1153.5	1165.8	1177.6
40°	109.8	570.4	597.6	622.2	716.1	906.7	1085.5	1090.0	1095.0	1102.7	1115.0
42.5°	17.7	95.3	560.0	583.6	610.4	811.8	1062.3	1043.7	1040.5	1046.0	1056.9
45°	9.1	23.1	112.5	545.0	569.1	647.6	868.6	1011.5	1008.3	997.9	1000.2
47.5°	6.8	14.5	27.7	188.3	532.8	555.9	801.4	792.8	853.1	968.8	951.2
50°	5.9	10.0	16.3	38.6	470.6	511.9	617.2	721.1	752.8	756.9	895.8
52.5°	5.4	6.8	11.8	25.0	98.9	473.3	501.9	538.2	591.7	706.6	703.8
55°	5.0	6.4	10.0	16.8	34.5	426.6	456.1	462.9	474.2	529.1	601.7
57.5°	2.7	5.9	9.5	14.5	25.9	78.1	413.9	419.3	428.4	430.7	456.5
60°	1.4	5.4	8.6	12.7	19.1	36.3	372.1	378.5	383.9	384.8	393.0
62.5°	0.9	5.0	7.3	11.8	15.9	25.9	88.0	179.7	341.7	341.7	351.2
65°	0.9	3.6	4.5	7.7	14.5	21.3	37.2	43.1	84.0	206.5	308.1
67.5°	0.9	1.4	4.1	6.4	10.9	16.3	27.2	31.8	38.1	43.6	80.8
70°	0.9	0.9	3.6	4.1	6.8	12.3	19.5	22.2	25.9	29.5	34.0
72.5°	0.9	0.9	3.2	3.2	4.5	8.2	15.0	16.3	18.6	20.9	24.1
75°	2.3	1.8	2.7	2.7	3.2	6.4	11.3	12.7	13.6	15.4	17.7
77.5°	2.3	2.3	2.3	2.3	2.3	4.1	7.3	8.2	9.5	10.4	12.3
80°	1.8	1.8	1.8	2.3	2.3	2.7	4.5	5.0	5.4	6.8	7.3
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.2	4.1
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8	1.8
87.5°	1.4	1.4	1.4	0.9	0.9	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

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CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1521.6	1518.8	1516.6	1517.9	1513.9	1512.0	1513.4	1513.9	1514.8	1517.0	1517.5
5°	1517.5	1516.6	1520.7	1522.9	1522.0	1522.9	1522.9	1521.1	1518.4	1520.2	1516.1
7.5°	1514.8	1508.9	1504.3	1505.2	1500.7	1506.1	1511.1	1518.4	1520.7	1520.7	1516.1
10°	1561.5	1555.2	1529.7	1512.5	1501.1	1491.2	1514.8	1490.7	1502.1	1458.9	1508.4
12.5°	1600.1	1608.7	1597.4	1550.2	1542.0	1512.0	1529.3	1499.8	1491.2	1441.7	1457.6
15°	1615.5	1599.2	1595.5	1582.4	1564.7	1556.1	1509.8	1504.8	1490.7	1496.2	1475.3
17.5°	1601.9	1610.1	1599.2	1590.5	1572.4	1552.0	1524.3	1499.8	1480.3	1436.7	1473.5
20°	1588.7	1599.6	1566.9	1572.4	1574.2	1550.6	1536.1	1515.7	1491.2	1450.3	1418.6
22.5°	1566.9	1559.2	1562.0	1553.8	1547.0	1550.2	1530.2	1516.1	1474.8	1456.2	1413.1
25°	1531.6	1528.8	1536.1	1535.2	1518.8	1513.4	1503.4	1488.4	1472.1	1442.2	1406.8
27.5°	1473.9	1488.0	1500.7	1506.6	1498.0	1483.5	1478.0	1469.4	1458.0	1427.6	1401.3
30°	1413.1	1429.0	1443.5	1456.2	1463.9	1457.6	1452.6	1447.6	1430.4	1410.4	1380.9
32.5°	1343.7	1364.6	1384.5	1400.0	1416.7	1421.7	1418.1	1414.0	1399.5	1381.3	1357.8
35°	1263.4	1292.0	1321.0	1348.7	1355.9	1367.7	1379.5	1372.7	1365.0	1346.9	1325.1
37.5°	1195.3	1215.7	1236.6	1271.5	1296.9	1311.9	1332.8	1335.5	1322.4	1313.7	1285.1
40°	1125.0	1143.6	1174.0	1194.4	1229.3	1246.6	1268.8	1278.8	1275.6	1270.6	1245.7
42.5°	1069.6	1078.7	1098.6	1116.8	1151.3	1186.7	1206.2	1217.1	1228.4	1224.3	1211.6
45°	1010.6	1018.8	1025.6	1041.5	1075.0	1106.3	1130.4	1146.7	1167.2	1176.7	1161.3
47.5°	952.1	954.3	962.5	975.7	995.6	1019.7	1060.1	1084.6	1103.6	1122.2	1112.2
50°	907.1	899.0	900.3	908.5	924.8	948.4	977.5	1012.0	1033.7	1056.4	1058.7
52.5°	792.8	859.0	843.1	847.7	856.3	867.7	898.1	932.1	958.9	978.4	997.9
55°	665.3	678.4	805.9	787.8	793.2	803.2	817.3	851.3	877.2	904.4	931.6
57.5°	516.0	614.0	619.0	737.0	734.2	735.1	746.9	766.5	792.3	826.4	849.5
60°	401.2	442.4	522.8	563.6	667.1	670.7	677.5	688.9	711.1	743.3	780.1
62.5°	354.0	359.4	388.0	449.3	516.4	597.6	612.2	614.0	624.0	656.2	698.8
65°	310.8	314.5	323.1	329.5	385.7	464.2	534.1	545.5	551.8	570.9	607.2
67.5°	214.2	270.9	278.6	283.2	288.6	324.9	411.6	469.2	476.5	493.3	525.0
70°	41.3	85.8	234.6	239.6	242.3	250.5	264.6	356.2	404.3	420.2	434.7
72.5°	28.1	33.1	39.9	94.4	199.7	204.2	207.4	219.2	300.4	346.7	354.4
75°	20.4	22.7	26.8	33.1	40.8	133.0	164.7	170.6	176.5	243.7	282.7
77.5°	14.5	16.3	18.2	21.3	25.0	32.2	46.3	127.5	133.4	136.6	192.9
80°	8.2	10.0	12.3	14.1	15.9	18.2	23.6	29.5	65.8	96.2	101.2
82.5°	4.5	5.4	6.4	7.7	8.6	10.9	13.2	15.9	20.9	30.9	65.3
85°	2.3	2.3	2.3	3.2	3.6	5.0	5.9	6.8	9.5	13.2	18.2
87.5°	1.4	1.4	1.8	1.8	1.8	2.3	2.3	2.3	2.7	4.1	5.9
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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CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1517.9	1516.6	1516.6	1522.0	1520.7
5°	1515.2	1513.9	1513.4	1519.3	1516.6
7.5°	1512.9	1508.0	1506.6	1512.0	1509.8
10°	1503.9	1500.2	1502.5	1500.7	1499.8
12.5°	1488.4	1486.2	1476.6	1477.6	1485.3
15°	1460.8	1469.8	1453.5	1468.0	1471.2
17.5°	1409.9	1430.4	1446.2	1454.9	1456.2
20°	1432.6	1439.4	1431.3	1431.7	1437.2
22.5°	1403.1	1406.3	1408.6	1405.9	1417.7
25°	1355.9	1343.7	1370.0	1375.4	1394.5
27.5°	1341.4	1331.4	1343.7	1342.8	1358.7
30°	1329.6	1297.4	1302.8	1311.5	1331.0
32.5°	1312.8	1262.0	1256.6	1275.6	1297.4
35°	1283.3	1235.2	1222.5	1234.8	1267.4
37.5°	1258.4	1198.0	1172.6	1188.9	1231.6
40°	1221.2	1169.0	1129.5	1144.0	1194.4
42.5°	1176.7	1144.0	1083.2	1093.2	1150.8
45°	1131.8	1102.7	1038.3	1043.3	1111.8
47.5°	1085.9	1059.2	991.5	992.4	1061.9
50°	1041.0	1005.6	949.8	933.9	1008.8
52.5°	982.5	949.8	907.6	881.7	958.4
55°	927.1	890.3	859.5	819.6	901.2
57.5°	873.1	832.3	811.4	760.1	836.3
60°	799.1	779.6	748.8	699.7	777.8
62.5°	723.3	717.0	685.7	634.9	705.6
65°	634.9	649.8	617.6	574.0	630.8
67.5°	551.4	578.1	542.7	516.0	558.6
70°	462.4	493.3	473.3	463.8	481.9
72.5°	374.8	404.8	406.6	399.8	405.7
75°	289.5	322.6	340.8	330.4	331.7
77.5°	219.6	235.5	255.5	263.7	261.8
80°	135.7	163.4	179.7	196.5	190.6
82.5°	68.5	91.7	111.6	129.8	121.2
85°	28.6	36.8	51.3	67.6	64.9
87.5°	8.6	14.5	15.4	21.8	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)