

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: P1213386

Luminaire Tested: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213386
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: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

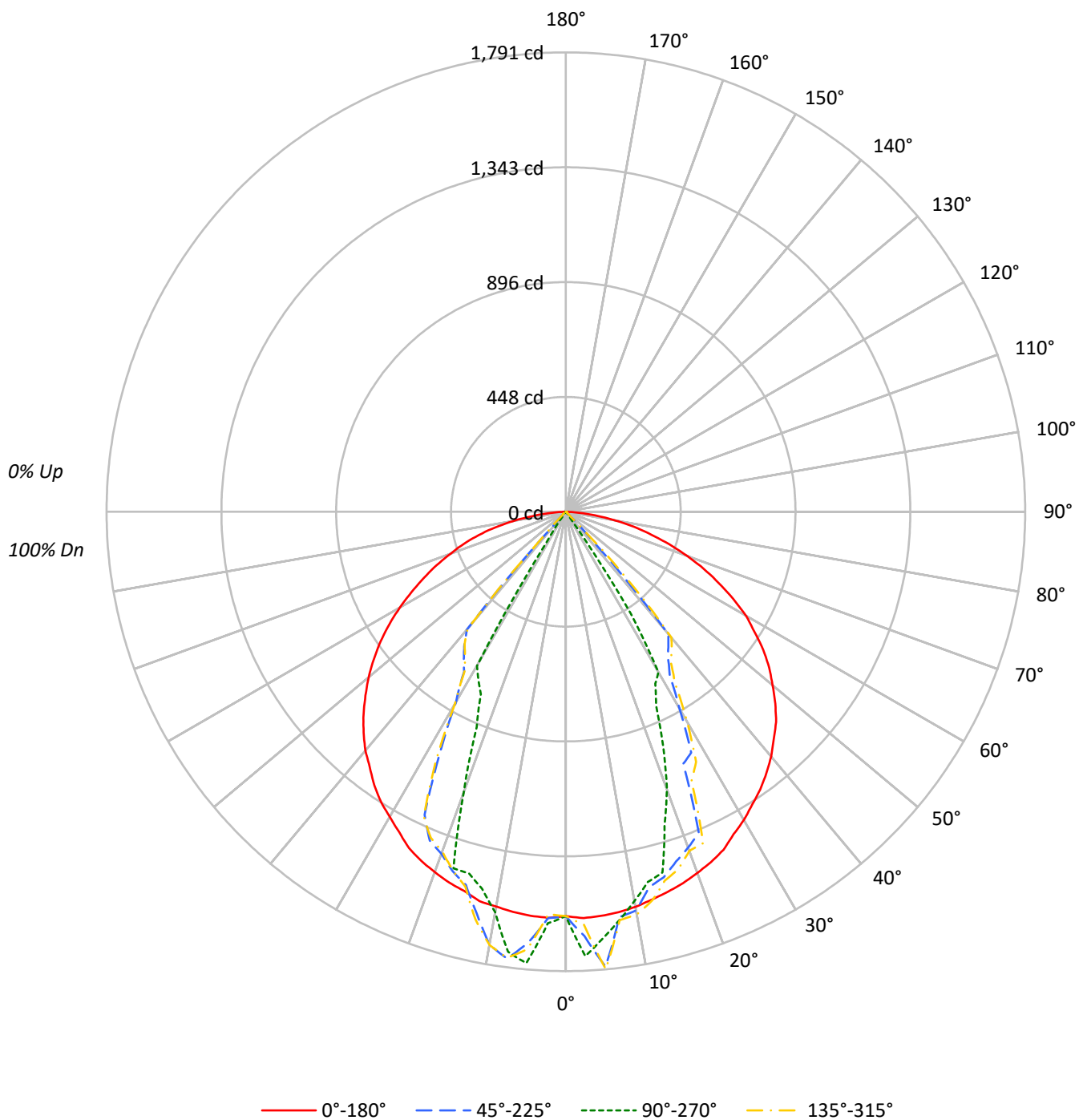
Lumens per Lamp: N/A
Luminaire Lumens: 2242.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	12741	12741	12741	12741
5°	12794	13104	12790	13878
10°	12763	11858	12755	12201
15°	12729	11069	12697	11097
20°	12743	8718	12707	8826
25°	12780	6309	12718	5954
30°	12721	5534	12587	5320
35°	12760	122	12572	148
40°	12803	26	12497	26
45°	12848	16	12365	12
50°	12751	12	12165	12
55°	12675	8	11897	8
60°	12436	9	11464	9
65°	11788	15	10948	10
70°	10936	16	10410	16
75°	9672	18	9831	18
80°	7855	21	8305	21
85°	4625	25	4721	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 13873 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	7.1
10°-20°	431.5	19.2
20°-30°	549.1	24.5
30°-40°	463.8	20.7
40°-50°	303.2	13.5
50°-60°	191.0	8.5
60°-70°	101.7	4.5
70°-80°	37.1	1.7
80°-90°	6.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1138.7	50.8
0°-40°	1602.6	71.5
0°-60°	2096.8	93.5
0°-90°	2242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1577	1577	1577	1577	1577	
5°	1582	1668	1581	1767	1582	150
15°	1534	1456	1530	1460	1534	434
25°	1454	831	1447	785	1454	669
35°	1322	16	1302	19	1322	827
45°	1159	2	1116	1	1159	892
55°	940	1	882	1	940	837
65°	658	1	611	1	658	651
75°	346	1	352	1	346	367
85°	68	1	69	1	68	86
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°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1585.7	1586.7	1587.2	1588.1	1589.5	1590.0	1590.9	1590.0	1590.0	1590.0	1590.0
5°	1581.5	1583.4	1584.8	1586.7	1590.0	1590.5	1594.3	1594.7	1596.6	1600.4	1603.2
7.5°	1574.4	1576.3	1579.1	1583.8	1588.6	1593.8	1600.4	1607.5	1617.4	1626.9	1638.7
10°	1564.0	1566.3	1569.6	1573.9	1597.1	1600.4	1615.1	1635.4	1641.1	1670.9	1693.2
12.5°	1548.8	1556.9	1565.4	1569.2	1591.4	1626.4	1675.6	1665.7	1654.8	1752.3	1750.9
15°	1534.2	1545.0	1540.8	1571.5	1591.9	1652.9	1632.1	1676.6	1758.0	1738.1	1739.1
17.5°	1518.5	1520.9	1544.6	1570.1	1606.6	1637.8	1663.3	1724.4	1740.5	1741.9	1724.4
20°	1498.7	1510.0	1544.6	1567.8	1629.3	1643.9	1699.3	1730.5	1723.9	1707.8	1678.0
22.5°	1478.3	1512.9	1547.9	1580.5	1623.6	1662.9	1690.3	1705.0	1670.4	1607.0	1573.0
25°	1454.2	1474.5	1520.4	1568.2	1622.2	1644.9	1661.0	1637.3	1592.4	1535.6	1478.3
27.5°	1416.8	1449.4	1508.1	1562.1	1610.8	1638.3	1612.2	1555.4	1483.0	1445.7	1419.6
30°	1387.9	1430.5	1478.8	1530.8	1581.5	1597.6	1531.3	1466.5	1416.8	1379.4	1373.7
32.5°	1352.9	1413.5	1459.4	1509.1	1551.7	1530.4	1466.0	1382.3	1341.1	1326.9	1332.6
35°	1321.7	1367.6	1427.7	1476.4	1507.2	1459.4	1357.6	1305.6	1285.7	1293.8	1283.4
37.5°	1284.3	1344.9	1400.2	1442.3	1431.9	1360.0	1273.9	1240.8	1243.1	1236.5	1216.6
40°	1245.5	1303.2	1361.0	1400.7	1364.3	1254.5	1197.2	1190.1	1191.5	1170.3	1141.9
42.5°	1200.1	1252.6	1310.3	1346.3	1267.7	1182.1	1143.3	1144.2	1131.9	1102.1	1087.0
45°	1159.4	1207.6	1267.7	1271.0	1174.5	1103.1	1091.7	1079.4	1052.0	1042.0	1030.7
47.5°	1107.3	1160.8	1210.5	1192.5	1083.2	1038.7	1030.2	1003.2	989.5	981.9	972.5
50°	1052.0	1105.9	1151.3	1100.2	997.1	986.6	958.7	937.4	928.0	919.9	911.4
52.5°	999.4	1043.9	1090.3	1002.3	930.8	920.9	889.2	876.9	867.4	858.4	856.5
55°	939.8	979.1	1010.8	909.0	867.4	844.2	821.5	813.0	804.0	799.7	806.8
57.5°	872.1	916.6	911.9	817.2	798.8	765.2	756.7	751.0	744.4	747.2	688.1
60°	811.1	845.2	822.0	750.0	718.8	696.1	688.5	684.7	688.5	630.8	554.6
62.5°	735.8	774.2	727.3	671.5	638.4	627.5	620.9	626.1	570.7	507.3	488.8
65°	657.8	699.4	630.3	587.3	566.4	557.0	556.5	512.5	458.1	433.5	433.5
67.5°	582.5	625.6	536.6	500.7	492.6	493.6	466.1	399.4	384.2	367.7	319.9
70°	502.6	540.4	443.4	421.6	416.9	413.6	346.9	328.9	310.9	266.9	263.1
72.5°	423.1	441.5	356.3	351.1	350.2	291.0	277.8	247.0	226.2	221.0	218.6
75°	345.9	340.2	281.6	286.3	241.3	220.5	199.2	181.2	178.4	176.5	44.0
77.5°	273.0	244.7	221.9	193.1	172.7	146.7	142.4	139.6	91.8	33.1	27.0
80°	198.7	158.5	147.6	125.4	106.9	102.7	105.1	32.2	25.6	21.3	18.5
82.5°	126.3	101.3	82.8	72.4	70.5	30.8	22.7	18.5	16.1	13.7	11.4
85°	67.7	45.0	41.6	35.0	20.8	14.2	11.8	9.0	7.6	6.2	5.7
87.5°	21.3	18.0	14.7	11.8	7.1	4.7	3.8	3.3	2.8	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

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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1589.0	1590.0	1589.5	1590.9	1590.9	1592.8	1594.3	1595.7	1598.5	1599.9	1610.8
5°	1609.4	1611.8	1618.9	1625.5	1633.5	1635.9	1649.6	1652.9	1669.0	1670.9	1723.9
7.5°	1654.8	1663.8	1680.8	1697.9	1714.9	1725.8	1744.7	1756.6	1769.3	1780.7	1822.8
10°	1709.7	1724.9	1741.4	1758.5	1768.4	1789.2	1800.6	1802.5	1799.2	1780.7	1712.6
12.5°	1763.7	1778.8	1771.7	1775.0	1786.8	1749.9	1755.1	1728.6	1747.1	1655.8	1588.1
15°	1756.1	1755.1	1737.6	1680.8	1690.3	1619.8	1591.4	1569.6	1587.2	1577.7	1567.3
17.5°	1733.4	1690.3	1660.0	1591.9	1563.0	1543.1	1543.6	1544.1	1535.6	1544.6	1518.1
20°	1637.3	1589.0	1544.1	1520.0	1511.4	1497.2	1504.3	1497.2	1497.7	1500.6	1459.9
22.5°	1509.5	1494.9	1468.8	1476.4	1473.6	1486.4	1476.9	1462.2	1467.0	1445.7	1414.9
25°	1458.0	1440.9	1440.0	1442.8	1438.6	1432.9	1424.4	1402.1	1400.7	1394.1	1379.9
27.5°	1405.9	1406.9	1409.7	1401.2	1386.0	1374.7	1361.9	1351.0	1355.3	1347.7	1328.3
30°	1369.9	1369.5	1352.4	1344.9	1316.9	1317.4	1314.1	1307.5	1303.2	1303.7	1291.4
32.5°	1318.8	1304.2	1284.8	1275.3	1272.9	1264.4	1257.8	1259.2	1262.5	1250.7	1263.5
35°	1266.3	1236.0	1233.2	1225.1	1217.6	1211.9	1214.3	1204.8	1204.3	1202.9	1098.8
37.5°	1195.8	1181.1	1179.7	1171.2	1166.0	1164.6	1155.6	1157.0	1161.3	1168.8	937.0
40°	1137.6	1124.4	1121.0	1120.6	1109.2	1108.3	1110.6	1119.6	1125.8	1078.4	893.0
42.5°	1075.1	1076.1	1065.7	1059.0	1060.5	1064.7	1076.1	1044.9	905.3	862.7	816.3
45°	1021.7	1016.9	1011.3	1009.4	1021.7	1013.1	888.2	819.6	803.0	801.1	671.0
47.5°	965.8	964.4	962.0	963.5	893.4	796.4	768.0	759.0	761.9	760.0	576.4
50°	909.5	911.4	911.4	795.9	730.6	714.5	716.9	725.0	674.8	629.8	537.1
52.5°	860.8	846.1	725.0	683.3	668.6	675.7	658.7	595.8	550.3	523.8	496.9
55°	770.4	662.5	635.5	628.9	634.1	571.2	532.4	491.7	479.8	477.0	461.4
57.5°	606.2	584.4	586.8	560.3	500.2	464.7	449.1	443.4	438.2	434.4	37.9
60°	536.1	542.3	496.4	439.6	415.5	410.7	407.0	401.8	400.8	394.2	24.1
62.5°	490.7	431.6	391.8	377.6	371.9	370.5	363.4	361.1	306.6	42.1	18.0
65°	370.1	345.9	338.3	335.0	328.9	328.9	273.0	43.1	35.0	30.3	16.1
67.5°	301.9	300.0	296.2	292.0	198.7	41.6	36.4	31.7	27.4	24.1	14.2
70°	255.5	254.6	231.9	42.6	35.5	31.2	27.4	24.6	22.7	20.3	12.8
72.5°	209.6	42.6	36.0	31.2	27.0	24.6	22.2	19.9	18.0	16.6	10.4
75°	32.7	28.9	25.6	23.2	21.3	18.9	17.0	15.6	15.1	13.2	7.1
77.5°	23.7	20.3	18.5	16.6	14.7	13.2	11.4	9.9	9.0	7.6	5.2
80°	16.6	14.7	13.2	10.9	9.5	8.0	7.1	6.2	5.7	4.7	2.4
82.5°	9.5	8.0	7.1	5.7	5.2	4.3	3.8	3.3	3.3	2.4	2.4
85°	4.3	4.3	3.3	2.8	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	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°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1626.0	1632.1	1643.9	1656.2	1642.5	1691.7	1687.9	1704.5	1713.5	1717.8	1727.7
5°	1770.8	1798.2	1807.2	1780.2	1764.6	1748.5	1712.1	1684.6	1687.9	1679.0	1646.3
7.5°	1767.9	1709.2	1630.2	1594.3	1591.4	1587.2	1598.5	1605.1	1606.1	1605.6	1604.7
10°	1618.4	1588.1	1582.9	1578.2	1580.1	1562.5	1554.5	1531.8	1544.1	1537.5	1539.8
12.5°	1573.0	1565.9	1537.9	1499.1	1522.3	1504.8	1494.9	1501.5	1493.9	1486.8	1484.5
15°	1546.0	1500.1	1484.5	1475.0	1468.4	1464.6	1467.9	1460.3	1458.0	1456.5	1459.9
17.5°	1490.1	1471.7	1454.7	1429.6	1430.0	1428.6	1438.1	1452.3	1453.2	1380.4	1314.6
20°	1446.1	1431.0	1409.2	1393.6	1414.9	1377.0	1230.8	1161.3	1150.4	1150.4	1152.3
22.5°	1411.1	1377.5	1378.9	1354.3	1155.1	1114.4	1115.4	1119.6	1100.2	1034.0	1026.9
25°	1363.3	1358.1	1254.5	1084.1	1085.5	1053.8	1005.1	936.5	862.2	862.2	849.9
27.5°	1327.4	1217.1	1065.7	1058.6	952.1	884.9	843.3	780.3	771.8	763.8	764.7
30°	1296.6	1029.7	1033.5	884.9	806.4	750.5	747.2	736.8	731.6	730.2	725.0
32.5°	1025.0	1002.7	865.0	753.4	722.6	713.6	709.3	697.5	697.0	688.1	625.6
35°	961.1	880.2	724.0	693.7	684.7	676.2	669.1	449.1	53.0	21.3	18.5
37.5°	888.2	735.4	669.6	655.9	647.4	478.4	47.8	16.6	11.8	8.5	7.6
40°	752.9	656.8	636.0	620.9	256.0	16.6	10.4	8.0	4.7	4.3	3.8
42.5°	635.1	619.0	596.7	181.7	18.9	8.0	5.2	3.8	3.3	3.3	2.8
45°	594.4	580.2	240.4	18.0	11.8	3.8	3.3	3.3	2.8	1.9	1.9
47.5°	556.5	489.8	21.8	11.4	7.6	3.3	2.8	1.9	1.9	1.9	1.4
50°	516.3	27.0	15.1	8.5	4.7	1.9	1.9	1.9	1.9	1.4	1.4
52.5°	96.5	18.9	12.3	7.6	2.4	1.9	1.9	1.9	1.4	1.4	1.4
55°	22.7	15.1	11.4	6.6	1.9	1.9	1.9	1.4	1.4	1.4	0.9
57.5°	17.0	11.4	9.0	6.2	1.9	1.4	1.4	1.4	1.4	1.4	0.9
60°	14.2	8.0	7.1	5.7	1.4	1.4	1.4	1.4	1.4	1.4	0.9
62.5°	9.9	6.6	5.2	4.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	8.0	5.2	4.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	7.1	4.3	2.8	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	5.7	1.4	1.4	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	4.7	1.4	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	4.7	2.4	0.9	0.9	1.4	1.4	1.9	1.9	1.4	1.4	1.4
77.5°	3.3	2.4	0.9	0.9	1.4	1.4	1.9	1.9	1.4	1.4	1.4
80°	1.9	2.4	0.9	1.4	1.4	2.8	3.3	1.9	1.4	1.4	1.4
82.5°	1.9	2.4	2.8	2.8	1.4	2.4	2.8	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°	0.9	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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1732.4	1734.3	1704.5	1694.1	1703.1	1701.2	1693.2	1663.3	1660.0	1640.2	1611.3
5°	1655.8	1668.5	1652.9	1679.9	1667.1	1679.9	1718.7	1736.7	1766.0	1784.0	1790.6
7.5°	1602.3	1605.1	1605.1	1607.5	1609.9	1610.3	1607.5	1605.6	1597.6	1587.6	1605.6
10°	1537.5	1540.8	1546.5	1545.5	1545.0	1555.0	1557.3	1577.7	1576.7	1580.5	1594.3
12.5°	1503.9	1478.3	1501.5	1495.3	1503.9	1490.6	1515.2	1511.0	1512.4	1523.7	1553.1
15°	1448.0	1456.1	1461.8	1461.8	1465.1	1462.2	1459.4	1478.8	1490.6	1491.1	1489.2
17.5°	1340.6	1279.6	1342.0	1325.9	1454.2	1457.5	1446.6	1437.6	1437.6	1444.7	1459.9
20°	1150.9	1152.3	1152.7	1158.9	1166.5	1166.0	1166.5	1352.9	1441.4	1421.1	1407.3
22.5°	1008.9	991.4	1024.0	1021.7	1062.4	1107.3	1150.4	1146.1	1149.0	1280.5	1398.8
25°	808.7	831.4	813.0	821.0	866.9	920.4	953.5	1040.1	1134.3	1127.7	1158.4
27.5°	761.4	755.2	763.8	763.8	769.9	777.0	795.5	844.2	928.0	1016.0	1099.3
30°	716.4	721.6	722.6	731.1	735.8	740.6	743.4	761.9	780.8	841.8	944.5
32.5°	538.0	471.8	620.9	661.1	695.1	703.2	708.9	716.4	730.2	739.2	790.7
35°	15.6	15.6	16.6	18.9	24.1	162.8	619.9	683.3	692.3	703.7	713.1
37.5°	7.6	5.7	6.6	7.1	8.5	11.8	17.0	53.0	590.1	667.2	677.6
40°	3.3	3.3	3.3	3.3	3.8	4.7	7.1	11.8	18.0	474.6	640.3
42.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.3	4.3	8.5	20.3	336.0
45°	1.9	1.9	1.4	1.9	1.9	2.4	2.8	2.8	3.8	12.8	23.2
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.8	8.5	12.3
50°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	6.6	8.5
52.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	7.6
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	6.6
57.5°	0.9	0.9	0.9	0.9	0.9	1.4	0.9	0.9	1.4	1.4	6.2
60°	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	5.7
62.5°	1.4	1.4	0.9	1.4	0.9	0.9	1.4	1.4	1.4	1.4	3.8
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	1.9	1.9	0.9	0.9	0.9
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.8	2.4	2.4	0.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.4	2.4	2.4	3.3
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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1613.7	1597.6	1592.4	1581.5	1580.5	1581.5	1579.1	1575.8	1577.7	1574.4	1571.5
5°	1794.4	1751.4	1723.4	1686.1	1634.5	1623.1	1620.3	1604.2	1598.5	1596.6	1589.0
7.5°	1648.2	1726.8	1774.1	1790.2	1729.6	1715.4	1698.8	1685.6	1672.8	1648.7	1634.0
10°	1583.4	1587.2	1632.6	1685.6	1771.7	1783.5	1792.5	1763.7	1755.6	1694.1	1680.8
12.5°	1568.2	1568.7	1573.9	1606.1	1673.8	1681.3	1713.0	1730.1	1750.9	1762.7	1753.3
15°	1499.1	1537.5	1565.9	1568.7	1574.8	1588.1	1597.6	1656.7	1681.8	1749.0	1745.2
17.5°	1467.0	1479.3	1520.4	1554.0	1548.3	1543.6	1551.2	1559.2	1583.4	1650.6	1649.6
20°	1413.5	1452.8	1475.0	1510.0	1541.7	1543.1	1534.6	1529.9	1520.4	1531.3	1541.3
22.5°	1390.8	1396.9	1438.6	1463.2	1499.1	1511.9	1513.8	1514.3	1509.1	1503.4	1500.6
25°	1388.4	1369.0	1390.3	1421.1	1447.6	1461.3	1476.9	1482.1	1480.2	1480.2	1477.4
27.5°	1136.2	1362.9	1351.5	1371.8	1404.0	1413.5	1421.5	1437.6	1447.6	1454.7	1458.0
30°	1082.2	1122.9	1321.2	1324.0	1356.7	1355.8	1364.7	1378.0	1390.8	1407.3	1411.6
32.5°	957.3	1057.2	1209.5	1276.3	1310.3	1313.6	1318.4	1322.2	1334.0	1352.4	1368.5
35°	767.1	963.0	1036.3	1253.5	1259.7	1266.3	1269.2	1278.1	1281.9	1289.5	1303.7
37.5°	694.2	795.9	994.2	1084.1	1201.5	1207.2	1222.3	1226.1	1232.2	1238.4	1249.3
40°	652.1	680.0	827.6	968.2	1154.6	1158.4	1163.6	1173.1	1173.6	1180.7	1190.6
42.5°	618.5	636.5	679.5	924.7	1121.5	1121.0	1108.7	1114.9	1117.7	1125.3	1139.0
45°	494.0	597.2	624.6	755.2	893.0	957.3	1080.8	1060.5	1060.0	1062.8	1077.5
47.5°	25.1	561.7	581.1	623.2	843.3	845.6	861.7	997.1	1017.9	1011.3	1012.7
50°	17.0	38.8	541.4	560.8	726.9	785.5	797.4	803.5	881.6	968.7	954.5
52.5°	13.2	22.2	331.7	520.5	590.6	633.6	709.8	753.4	758.1	793.1	911.9
55°	11.8	17.0	36.0	480.3	502.1	511.5	556.0	632.2	693.7	712.2	713.6
57.5°	10.4	15.6	24.6	217.2	456.6	458.5	466.1	492.6	548.0	598.6	655.9
60°	9.5	13.7	19.4	37.4	415.0	419.7	421.2	428.3	434.9	469.4	535.2
62.5°	5.7	10.9	17.0	27.0	328.4	377.1	376.7	381.4	387.6	391.3	404.6
65°	4.7	8.5	14.7	22.7	40.2	50.2	304.7	338.8	342.6	347.8	350.2
67.5°	4.3	7.6	10.9	18.0	30.3	34.5	39.7	49.2	268.8	302.9	307.6
70°	3.8	5.2	9.0	15.1	24.6	26.5	29.8	34.1	40.2	49.7	243.2
72.5°	2.4	3.8	6.2	10.9	18.9	21.3	23.2	26.0	28.9	34.5	39.7
75°	0.9	2.8	5.2	8.0	14.7	16.1	17.5	19.4	21.8	25.6	28.4
77.5°	0.9	2.4	4.3	5.7	9.5	10.9	12.8	14.2	16.1	18.0	20.8
80°	3.3	1.9	2.8	4.3	6.6	7.1	8.0	9.0	10.4	11.8	13.7
82.5°	2.4	2.8	3.3	2.8	3.3	4.3	4.7	5.7	6.2	7.1	7.6
85°	1.9	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.8	3.3	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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1571.5	1570.6	1567.8	1567.8	1567.3	1569.2	1570.6	1572.0	1571.5	1574.4	1571.5
5°	1583.4	1581.0	1576.7	1573.0	1571.5	1572.5	1571.1	1572.5	1570.6	1573.0	1568.7
7.5°	1616.0	1608.0	1591.4	1584.8	1576.3	1575.8	1571.5	1570.6	1567.8	1567.8	1562.5
10°	1673.8	1634.9	1630.2	1610.3	1603.2	1568.7	1576.3	1563.5	1562.1	1555.9	1553.6
12.5°	1721.1	1690.8	1681.8	1664.3	1644.4	1574.4	1590.0	1562.5	1561.1	1548.8	1536.0
15°	1722.0	1739.5	1714.9	1666.7	1662.4	1614.1	1582.4	1573.0	1560.7	1523.7	1529.9
17.5°	1666.7	1706.9	1718.7	1708.3	1678.0	1645.4	1600.9	1581.9	1545.0	1528.5	1517.1
20°	1576.7	1617.4	1668.1	1671.4	1690.3	1667.1	1608.9	1578.2	1533.7	1504.8	1495.3
22.5°	1505.3	1535.1	1593.3	1620.3	1643.5	1651.5	1614.6	1569.2	1513.8	1485.9	1480.2
25°	1467.4	1474.1	1491.6	1523.3	1574.4	1611.3	1616.5	1568.2	1539.4	1478.3	1446.1
27.5°	1453.7	1448.0	1440.9	1457.0	1495.3	1540.3	1570.1	1578.2	1506.2	1448.0	1415.9
30°	1418.7	1422.0	1411.1	1405.4	1430.5	1476.9	1529.9	1543.1	1487.8	1427.7	1390.8
32.5°	1375.6	1381.3	1383.2	1373.3	1368.1	1400.2	1457.5	1489.2	1486.4	1398.8	1357.6
35°	1321.7	1337.8	1342.0	1342.5	1334.0	1328.8	1361.9	1427.7	1452.8	1385.6	1325.9
37.5°	1264.9	1269.6	1292.8	1299.0	1299.0	1283.4	1308.0	1360.5	1395.5	1355.8	1287.1
40°	1193.9	1209.1	1230.8	1241.7	1252.6	1254.0	1240.3	1277.2	1334.9	1325.0	1250.7
42.5°	1142.3	1152.3	1165.5	1180.2	1202.4	1208.1	1193.9	1200.5	1260.6	1286.7	1203.4
45°	1082.2	1095.5	1099.3	1115.4	1138.5	1155.1	1154.6	1140.9	1189.2	1221.4	1168.8
47.5°	1020.7	1033.5	1040.1	1048.2	1065.2	1086.5	1098.3	1092.2	1101.6	1164.6	1122.9
50°	957.3	964.4	977.7	986.6	998.0	1010.3	1038.7	1044.4	1031.1	1081.3	1072.3
52.5°	897.2	899.6	908.6	917.6	932.7	941.7	964.4	981.4	980.5	995.2	1016.0
55°	850.4	840.0	841.8	848.9	858.9	872.6	885.4	911.9	920.9	923.7	956.8
57.5°	664.4	771.3	780.8	780.3	792.2	798.3	810.1	827.6	859.8	852.7	889.6
60°	603.8	615.6	705.1	715.5	719.8	725.4	739.6	755.7	779.4	794.5	810.6
62.5°	460.4	532.4	559.3	638.4	650.7	654.0	663.4	671.0	695.6	730.2	723.5
65°	356.3	387.1	469.4	501.6	568.8	577.3	590.6	598.6	605.7	645.5	647.4
67.5°	308.1	312.8	335.0	397.0	439.6	505.4	513.4	520.5	531.4	559.8	577.3
70°	263.1	268.8	274.9	280.1	335.5	379.0	440.1	442.5	449.6	468.5	508.2
72.5°	49.7	224.8	228.6	231.9	238.0	266.9	325.1	372.4	375.3	384.2	420.7
75°	33.6	39.3	53.9	185.5	191.7	193.5	203.5	262.6	306.2	308.1	324.2
77.5°	24.1	27.0	32.7	38.8	98.9	148.6	151.0	161.8	206.8	239.4	242.3
80°	16.6	18.5	21.8	24.6	30.3	39.7	109.8	113.1	118.8	163.7	172.2
82.5°	9.5	10.9	12.8	15.6	18.0	22.7	29.3	37.9	77.1	82.3	109.3
85°	4.7	5.2	6.2	7.6	9.0	10.9	14.7	18.0	24.6	44.5	45.9
87.5°	2.4	2.4	2.4	2.4	3.8	4.3	5.2	6.6	8.5	12.8	16.6
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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1572.0	1578.6	1584.3	1585.7	1585.7	1586.7	1588.1	1589.0	1590.0	1590.9	1590.0
5°	1569.2	1576.3	1581.0	1582.4	1582.4	1585.3	1587.6	1590.5	1591.9	1591.9	1590.9
7.5°	1562.1	1567.3	1573.4	1577.2	1577.7	1582.4	1586.7	1586.2	1588.1	1589.0	1591.4
10°	1552.6	1552.6	1563.0	1565.9	1568.2	1573.4	1574.8	1577.7	1584.3	1585.3	1591.4
12.5°	1547.9	1543.1	1555.4	1556.9	1564.9	1558.3	1566.8	1569.6	1563.0	1572.0	1560.2
15°	1526.6	1532.3	1530.4	1534.6	1548.8	1541.3	1564.4	1556.9	1573.9	1553.6	1589.5
17.5°	1509.1	1508.1	1515.7	1519.5	1522.3	1538.4	1544.6	1553.1	1559.7	1554.0	1568.2
20°	1496.3	1488.7	1494.4	1498.7	1508.6	1520.9	1524.7	1511.9	1534.2	1572.0	1581.0
22.5°	1472.2	1467.0	1473.6	1473.6	1488.7	1486.8	1501.0	1493.0	1513.8	1557.8	1603.7
25°	1439.5	1440.0	1447.1	1455.6	1458.4	1479.7	1487.3	1497.7	1523.7	1576.3	1604.2
27.5°	1406.4	1403.5	1407.8	1425.3	1440.0	1455.6	1458.0	1493.5	1528.9	1564.9	1589.5
30°	1373.3	1370.4	1373.3	1386.0	1403.5	1414.0	1440.0	1487.3	1520.4	1545.0	1568.2
32.5°	1337.8	1334.9	1341.6	1351.0	1381.8	1383.2	1434.8	1479.3	1505.3	1523.3	1519.0
35°	1299.9	1296.1	1302.3	1316.9	1345.3	1355.8	1409.7	1442.8	1472.2	1480.7	1460.8
37.5°	1254.5	1247.9	1255.4	1275.8	1305.6	1335.9	1380.8	1419.2	1434.8	1412.1	1388.4
40°	1207.2	1202.4	1215.7	1226.1	1261.1	1303.2	1354.8	1381.8	1371.8	1345.8	1319.8
42.5°	1165.0	1155.1	1166.9	1186.8	1226.6	1274.4	1316.0	1331.1	1307.5	1269.2	1238.9
45°	1113.5	1101.6	1115.8	1142.3	1184.9	1239.3	1272.0	1266.8	1226.6	1193.4	1151.8
47.5°	1059.5	1045.3	1059.5	1091.2	1139.0	1196.8	1220.4	1196.8	1146.1	1104.5	1070.9
50°	1006.5	990.0	1003.7	1051.5	1098.3	1142.8	1142.3	1096.4	1066.1	1020.7	991.4
52.5°	954.0	930.3	944.1	996.1	1043.0	1093.6	1056.2	1013.6	977.2	937.4	928.0
55°	889.2	863.6	882.1	957.8	993.7	1023.6	963.9	926.5	890.6	870.7	858.9
57.5°	827.6	799.7	815.8	905.3	931.8	939.3	884.4	831.4	810.1	803.5	786.5
60°	764.2	732.5	747.7	850.8	869.3	838.5	784.6	743.4	739.2	725.9	712.7
62.5°	703.7	668.6	678.1	783.2	791.7	735.8	686.2	675.3	664.9	651.6	644.5
65°	634.1	597.7	610.9	711.2	703.2	631.3	603.3	601.0	587.3	576.4	586.8
67.5°	570.2	527.2	545.6	632.7	596.2	537.6	526.2	520.5	509.6	515.8	406.5
70°	500.2	453.3	478.4	548.0	494.0	455.2	451.0	442.5	442.9	352.1	296.7
72.5°	422.1	381.4	417.8	455.2	390.9	379.5	373.4	372.4	300.5	244.2	230.5
75°	353.5	312.3	351.6	365.8	311.4	303.8	303.3	250.8	197.3	188.3	184.1
77.5°	275.9	244.2	281.6	260.3	239.0	230.5	206.8	155.2	148.6	142.4	53.5
80°	186.0	188.3	210.1	179.3	170.4	145.3	114.5	109.8	94.6	37.9	29.8
82.5°	113.1	142.0	133.9	112.2	109.8	79.0	72.4	36.9	27.4	21.8	18.9
85°	58.7	71.9	69.1	61.0	45.4	40.7	22.7	17.5	14.2	10.9	9.0
87.5°	19.9	26.5	25.6	20.3	15.6	12.3	8.0	6.6	4.7	3.8	3.3
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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1589.0	1589.0	1588.1	1589.0	1589.5	1588.6	1588.6	1589.5	1590.0	1590.5	1592.8
5°	1591.4	1592.4	1593.8	1596.6	1597.1	1602.8	1605.1	1606.6	1608.0	1608.4	1605.1
7.5°	1596.6	1599.9	1602.8	1602.3	1599.0	1590.0	1587.2	1584.8	1589.0	1599.9	1612.7
10°	1601.3	1586.2	1557.8	1596.6	1584.8	1595.7	1627.8	1634.9	1656.7	1687.5	1696.5
12.5°	1568.7	1610.3	1619.3	1575.8	1656.2	1626.4	1661.9	1693.2	1702.1	1733.4	1714.4
15°	1603.7	1624.1	1637.8	1681.3	1676.6	1702.1	1712.1	1705.9	1707.3	1715.4	1736.7
17.5°	1603.2	1643.9	1652.9	1682.3	1702.1	1702.6	1699.8	1696.9	1704.5	1710.7	1697.9
20°	1630.7	1643.9	1661.4	1673.3	1677.1	1681.8	1690.8	1683.7	1669.5	1655.8	1650.1
22.5°	1617.0	1646.8	1661.9	1663.8	1661.4	1646.8	1633.5	1613.7	1607.0	1599.9	1602.3
25°	1619.8	1633.5	1631.6	1624.1	1614.1	1586.7	1580.1	1571.5	1558.8	1528.0	1500.1
27.5°	1599.5	1592.4	1583.8	1565.4	1547.4	1532.7	1516.2	1488.7	1466.0	1432.9	1420.6
30°	1565.4	1537.0	1516.2	1505.3	1487.8	1463.2	1438.1	1404.5	1375.6	1369.0	1362.9
32.5°	1500.1	1472.2	1455.1	1428.6	1398.8	1369.5	1340.6	1327.4	1321.2	1322.2	1316.5
35°	1433.4	1408.8	1383.2	1343.4	1321.2	1291.9	1281.5	1278.6	1272.9	1266.8	1260.2
37.5°	1362.4	1333.5	1295.2	1271.5	1249.3	1237.4	1232.2	1228.0	1218.0	1207.2	1199.6
40°	1293.8	1241.7	1220.4	1197.2	1190.6	1185.4	1177.8	1167.4	1153.7	1151.8	1148.5
42.5°	1202.0	1164.6	1146.1	1141.4	1133.3	1124.4	1117.7	1106.4	1100.7	1104.5	1107.3
45°	1114.9	1096.0	1089.8	1084.1	1069.0	1056.2	1052.0	1048.2	1052.9	1073.7	1024.0
47.5°	1044.4	1036.8	1029.2	1019.8	1005.6	996.1	1000.4	1004.2	1008.4	855.6	780.8
50°	983.3	972.9	961.1	950.7	942.2	941.2	963.5	896.7	751.0	747.2	671.5
52.5°	916.6	901.0	893.9	887.7	891.5	905.7	749.6	695.6	667.2	579.7	540.9
55°	844.7	831.0	831.0	836.6	816.3	661.6	653.5	565.0	511.5	496.4	490.2
57.5°	772.8	771.3	779.4	712.7	600.5	575.9	484.1	464.7	456.2	454.3	444.3
60°	707.0	720.2	602.9	554.6	482.2	434.9	421.6	419.3	410.3	407.0	398.0
62.5°	654.5	542.8	505.4	412.6	388.5	382.4	375.3	371.9	363.9	321.3	94.2
65°	472.7	446.7	362.5	346.9	345.0	336.0	333.1	299.5	70.5	47.3	40.2
67.5°	356.8	316.6	305.7	302.9	293.9	275.9	81.9	46.8	40.2	35.0	30.8
70°	274.0	266.9	258.8	252.2	74.3	46.4	40.2	34.1	29.3	26.0	23.7
72.5°	224.3	219.6	127.8	48.7	39.7	33.6	29.8	26.0	22.7	20.8	18.9
75°	175.6	48.7	40.2	33.6	28.9	24.6	21.8	19.4	17.5	16.1	14.7
77.5°	39.7	32.2	27.4	23.2	20.8	18.5	16.6	14.2	12.8	11.4	9.5
80°	24.6	21.3	18.0	16.6	14.2	11.8	10.4	9.5	7.6	7.1	6.2
82.5°	16.1	12.8	11.4	9.5	7.6	7.1	6.2	4.7	4.3	3.8	3.3
85°	7.1	6.2	5.2	4.3	3.3	2.8	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	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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1593.8	1602.3	1610.3	1608.0	1599.5	1586.2	1582.4	1577.2	1581.0	1589.0	1592.4
5°	1605.1	1600.4	1617.4	1642.5	1683.2	1687.0	1715.4	1722.0	1744.7	1758.9	1758.5
7.5°	1621.2	1688.4	1716.3	1746.6	1760.3	1757.0	1761.3	1758.0	1752.8	1750.4	1747.6
10°	1703.1	1754.2	1764.6	1764.6	1743.3	1714.4	1702.1	1680.8	1638.3	1639.2	1632.1
12.5°	1750.9	1768.9	1744.3	1723.4	1637.8	1604.7	1568.7	1551.7	1541.7	1526.6	1532.3
15°	1725.8	1700.3	1685.6	1618.4	1565.9	1506.2	1507.2	1496.8	1485.9	1486.8	1479.7
17.5°	1688.9	1668.5	1564.4	1518.1	1492.5	1469.3	1465.1	1451.3	1444.2	1441.9	1441.4
20°	1638.3	1564.9	1487.3	1475.9	1445.2	1418.7	1414.4	1418.7	1440.5	1401.7	1270.1
22.5°	1579.1	1473.6	1450.9	1418.7	1397.9	1387.5	1413.5	1295.2	1116.3	1138.1	1114.9
25°	1478.8	1432.9	1394.1	1369.5	1367.1	1303.2	1086.0	1063.3	948.3	886.8	817.7
27.5°	1405.4	1385.6	1344.9	1340.6	1309.9	1065.7	952.6	827.6	781.7	774.6	759.5
30°	1361.0	1332.6	1308.0	1200.5	1045.3	857.9	764.2	746.7	738.7	730.2	716.9
32.5°	1307.5	1280.5	1292.3	1009.4	833.3	738.7	719.8	707.0	692.3	686.6	638.8
35°	1253.1	1240.8	1009.8	848.5	716.4	693.7	679.5	666.3	530.0	128.2	43.5
37.5°	1194.9	1192.0	907.6	704.1	671.0	649.7	609.5	125.9	29.8	20.3	15.1
40°	1149.4	908.1	717.4	660.1	633.2	599.6	84.2	20.8	13.2	8.0	5.2
42.5°	1119.1	816.8	642.1	619.4	560.8	62.0	21.3	9.0	5.2	4.3	3.3
45°	862.7	645.0	600.0	576.4	71.0	21.3	12.3	4.3	3.3	2.8	1.9
47.5°	795.9	585.8	559.3	125.9	23.7	11.4	8.5	2.8	1.9	1.9	1.9
50°	602.9	541.4	445.3	30.8	15.1	8.0	6.2	1.9	1.9	1.9	1.4
52.5°	528.6	499.7	47.8	20.3	11.8	6.2	3.8	1.4	1.4	1.4	1.4
55°	483.1	317.1	28.4	15.6	9.9	5.7	2.4	1.4	1.4	1.4	0.9
57.5°	442.0	42.6	20.8	13.2	9.0	5.2	1.4	1.4	1.4	1.4	0.9
60°	374.8	30.8	17.0	11.8	8.5	4.7	1.4	1.4	1.4	1.4	1.4
62.5°	48.7	24.1	14.7	10.4	6.2	3.8	0.9	1.4	1.4	1.4	1.4
65°	35.5	18.9	13.2	7.1	3.8	1.4	0.9	1.4	1.4	1.4	1.4
67.5°	27.4	15.6	9.9	6.2	3.3	0.9	0.9	1.4	1.4	1.4	1.4
70°	21.8	13.2	8.0	5.2	2.8	0.9	0.9	1.4	1.4	1.4	1.4
72.5°	17.0	9.5	5.7	2.8	1.9	0.9	0.9	1.4	1.4	1.4	1.4
75°	12.8	7.6	4.3	2.4	0.9	0.9	0.9	1.4	1.4	1.4	1.4
77.5°	8.5	4.7	3.3	1.9	1.9	1.9	2.4	2.4	1.4	1.4	1.4
80°	5.7	3.3	2.4	2.4	2.4	1.9	2.4	2.4	1.4	2.4	1.4
82.5°	2.8	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°	0.9	0.9	0.9	0.9	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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1588.1	1589.5	1585.7	1606.1	1595.7	1596.6	1600.9	1590.0	1592.4	1584.8	1579.6
5°	1760.3	1763.2	1766.0	1767.0	1768.9	1771.2	1768.4	1767.0	1764.1	1754.7	1744.7
7.5°	1733.4	1730.1	1728.6	1730.5	1733.8	1735.3	1732.9	1736.2	1748.5	1753.7	1757.0
10°	1591.4	1576.3	1586.7	1585.3	1573.4	1613.2	1602.3	1608.4	1612.7	1656.2	1682.7
12.5°	1523.7	1533.2	1515.2	1506.2	1518.1	1526.1	1534.2	1517.1	1540.8	1529.9	1564.9
15°	1467.0	1461.3	1459.4	1459.9	1457.5	1468.8	1471.7	1475.5	1478.8	1493.5	1499.1
17.5°	1441.4	1450.9	1454.7	1457.5	1452.8	1447.6	1442.3	1434.8	1437.1	1433.4	1444.2
20°	1181.6	1149.9	1148.0	1166.5	1146.1	1157.5	1184.9	1368.5	1362.4	1433.8	1409.7
22.5°	986.2	956.4	930.8	908.6	940.3	953.5	1004.6	1062.4	1156.1	1141.4	1243.1
25°	805.4	794.5	787.9	784.6	787.0	786.0	797.4	824.3	866.9	967.2	1096.9
27.5°	753.4	748.1	745.8	738.2	743.9	742.0	751.0	756.7	769.4	779.4	821.5
30°	712.2	706.0	701.8	693.7	699.4	699.9	702.7	717.4	722.6	731.1	744.4
32.5°	260.3	153.3	143.9	136.8	149.5	195.0	342.1	598.1	682.4	689.0	704.1
35°	25.6	21.3	18.9	18.9	19.4	21.3	28.4	74.8	136.8	528.6	661.6
37.5°	9.9	8.5	7.1	6.6	7.1	8.0	10.9	14.2	19.4	40.2	179.3
40°	4.3	3.8	3.3	3.3	3.3	3.3	3.8	4.7	7.1	13.2	20.8
42.5°	2.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	4.3	8.5
45°	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.4	3.8
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	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	2.8	2.8	1.9
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.8	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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1570.6	1570.1	1580.1	1587.6	1584.8	1587.6	1590.9	1591.4	1592.4	1588.6	1587.2
5°	1725.8	1711.1	1682.7	1662.4	1638.7	1595.7	1574.4	1576.7	1577.2	1575.8	1577.7
7.5°	1755.6	1754.2	1744.3	1740.0	1723.9	1693.2	1643.9	1635.4	1614.6	1601.3	1590.5
10°	1680.8	1714.9	1723.9	1739.1	1748.5	1742.8	1701.2	1695.0	1681.8	1666.7	1670.0
12.5°	1599.9	1627.8	1629.3	1711.6	1730.1	1732.0	1715.9	1724.4	1726.3	1692.2	1672.3
15°	1500.6	1513.8	1541.7	1618.4	1674.2	1709.2	1719.7	1724.4	1701.2	1699.8	1691.7
17.5°	1457.0	1465.5	1478.3	1521.4	1606.1	1657.7	1701.7	1698.4	1707.3	1700.7	1680.4
20°	1402.1	1409.2	1431.9	1453.7	1495.3	1564.0	1646.3	1652.5	1664.3	1662.9	1668.5
22.5°	1401.2	1376.1	1379.9	1396.9	1440.5	1502.0	1589.5	1609.9	1617.4	1622.6	1628.8
25°	1111.6	1310.8	1347.2	1358.1	1386.5	1422.5	1525.6	1533.2	1547.4	1570.6	1587.6
27.5°	963.0	1098.3	1244.1	1319.8	1337.8	1367.6	1429.1	1440.5	1488.7	1494.4	1520.9
30°	760.0	864.6	1082.2	1264.4	1294.2	1315.1	1358.6	1381.3	1402.1	1424.8	1452.8
32.5°	715.0	731.6	852.3	1046.3	1278.1	1262.5	1294.7	1308.4	1331.1	1351.0	1371.4
35°	673.9	685.2	710.8	857.0	1041.1	1219.5	1241.2	1250.2	1263.0	1278.1	1292.8
37.5°	630.8	647.8	665.3	704.6	963.0	1185.4	1184.9	1195.3	1202.9	1215.7	1228.0
40°	114.5	594.8	623.2	648.8	746.7	945.5	1131.9	1136.7	1141.9	1149.9	1162.7
42.5°	18.5	99.4	583.9	608.6	636.5	846.6	1107.8	1088.4	1085.1	1090.8	1102.1
45°	9.5	24.1	117.4	568.3	593.4	675.3	905.7	1054.8	1051.5	1040.6	1043.0
47.5°	7.1	15.1	28.9	196.4	555.6	579.7	835.7	826.7	889.6	1010.3	991.9
50°	6.2	10.4	17.0	40.2	490.7	533.8	643.6	751.9	785.1	789.3	934.1
52.5°	5.7	7.1	12.3	26.0	103.2	493.6	523.4	561.2	617.1	736.8	734.0
55°	5.2	6.6	10.4	17.5	36.0	444.8	475.6	482.7	494.5	551.8	627.5
57.5°	2.8	6.2	9.9	15.1	27.0	81.4	431.6	437.2	446.7	449.1	476.1
60°	1.4	5.7	9.0	13.2	19.9	37.9	388.0	394.7	400.3	401.3	409.8
62.5°	0.9	5.2	7.6	12.3	16.6	27.0	91.8	187.4	356.3	356.3	366.3
65°	0.9	3.8	4.7	8.0	15.1	22.2	38.8	45.0	87.5	215.3	321.3
67.5°	0.9	1.4	4.3	6.6	11.4	17.0	28.4	33.1	39.7	45.4	84.2
70°	0.9	0.9	3.8	4.3	7.1	12.8	20.3	23.2	27.0	30.8	35.5
72.5°	0.9	0.9	3.3	3.3	4.7	8.5	15.6	17.0	19.4	21.8	25.1
75°	2.4	1.9	2.8	2.8	3.3	6.6	11.8	13.2	14.2	16.1	18.5
77.5°	2.4	2.4	2.4	2.4	2.4	4.3	7.6	8.5	9.9	10.9	12.8
80°	1.9	1.9	1.9	2.4	2.4	2.8	4.7	5.2	5.7	7.1	7.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	3.3	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	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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CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1586.7	1583.8	1581.5	1582.9	1578.6	1576.7	1578.2	1578.6	1579.6	1581.9	1582.4
5°	1582.4	1581.5	1585.7	1588.1	1587.2	1588.1	1588.1	1586.2	1583.4	1585.3	1581.0
7.5°	1579.6	1573.4	1568.7	1569.6	1564.9	1570.6	1575.8	1583.4	1585.7	1585.7	1581.0
10°	1628.3	1621.7	1595.2	1577.2	1565.4	1555.0	1579.6	1554.5	1566.3	1521.4	1573.0
12.5°	1668.5	1677.5	1665.7	1616.5	1608.0	1576.7	1594.7	1564.0	1555.0	1503.4	1520.0
15°	1684.6	1667.6	1663.8	1650.1	1631.6	1622.6	1574.4	1569.2	1554.5	1560.2	1538.4
17.5°	1670.4	1679.0	1667.6	1658.6	1639.7	1618.4	1589.5	1564.0	1543.6	1498.2	1536.5
20°	1656.7	1668.1	1634.0	1639.7	1641.6	1617.0	1601.8	1580.5	1555.0	1512.4	1479.3
22.5°	1634.0	1626.0	1628.8	1620.3	1613.2	1616.5	1595.7	1581.0	1537.9	1518.5	1473.6
25°	1597.1	1594.3	1601.8	1600.9	1583.8	1578.2	1567.8	1552.1	1535.1	1503.9	1467.0
27.5°	1537.0	1551.7	1564.9	1571.1	1562.1	1546.9	1541.3	1532.3	1520.4	1488.7	1461.3
30°	1473.6	1490.1	1505.3	1518.5	1526.6	1520.0	1514.8	1509.5	1491.6	1470.7	1440.0
32.5°	1401.2	1422.9	1443.8	1459.9	1477.4	1482.6	1478.8	1474.5	1459.4	1440.5	1415.9
35°	1317.4	1347.2	1377.5	1406.4	1414.0	1426.3	1438.6	1431.5	1423.4	1404.5	1381.8
37.5°	1246.4	1267.7	1289.5	1325.9	1352.4	1368.1	1389.8	1392.7	1378.9	1369.9	1340.1
40°	1173.1	1192.5	1224.2	1245.5	1281.9	1299.9	1323.1	1333.5	1330.2	1325.0	1299.0
42.5°	1115.4	1124.8	1145.6	1164.6	1200.5	1237.4	1257.8	1269.2	1281.0	1276.7	1263.5
45°	1053.8	1062.4	1069.5	1086.0	1121.0	1153.7	1178.8	1195.8	1217.1	1227.0	1210.9
47.5°	992.8	995.2	1003.7	1017.4	1038.2	1063.3	1105.4	1131.0	1150.9	1170.3	1159.8
50°	946.0	937.4	938.9	947.4	964.4	989.0	1019.3	1055.3	1078.0	1101.6	1104.0
52.5°	826.7	895.8	879.2	884.0	893.0	904.8	936.5	972.0	999.9	1020.2	1040.6
55°	693.7	707.5	840.4	821.5	827.2	837.6	852.3	887.7	914.7	943.1	971.5
57.5°	538.0	640.3	645.5	768.5	765.7	766.6	778.9	799.3	826.2	861.7	885.9
60°	418.3	461.4	545.1	587.7	695.6	699.4	706.5	718.3	741.5	775.1	813.5
62.5°	369.1	374.8	404.6	468.5	538.5	623.2	638.4	640.3	650.7	684.3	728.7
65°	324.2	327.9	336.9	343.6	402.2	484.1	557.0	568.8	575.4	595.3	633.2
67.5°	223.4	282.5	290.6	295.3	301.0	338.8	429.2	489.3	496.9	514.4	547.5
70°	43.1	89.4	244.7	249.9	252.7	261.2	275.9	371.5	421.6	438.2	453.3
72.5°	29.3	34.5	41.6	98.4	208.2	212.9	216.3	228.6	313.3	361.5	369.6
75°	21.3	23.7	27.9	34.5	42.6	138.7	171.8	177.9	184.1	254.1	294.8
77.5°	15.1	17.0	18.9	22.2	26.0	33.6	48.3	133.0	139.1	142.4	201.1
80°	8.5	10.4	12.8	14.7	16.6	18.9	24.6	30.8	68.6	100.3	105.5
82.5°	4.7	5.7	6.6	8.0	9.0	11.4	13.7	16.6	21.8	32.2	68.1
85°	2.4	2.4	2.4	3.3	3.8	5.2	6.2	7.1	9.9	13.7	18.9
87.5°	1.4	1.4	1.9	1.9	1.9	2.4	2.4	2.4	2.8	4.3	6.2
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: P1213386

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1582.9	1581.5	1581.5	1587.2	1585.7
5°	1580.1	1578.6	1578.2	1584.3	1581.5
7.5°	1577.7	1572.5	1571.1	1576.7	1574.4
10°	1568.2	1564.4	1566.8	1564.9	1564.0
12.5°	1552.1	1549.8	1539.8	1540.8	1548.8
15°	1523.3	1532.7	1515.7	1530.8	1534.2
17.5°	1470.3	1491.6	1508.1	1517.1	1518.5
20°	1493.9	1501.0	1492.5	1493.0	1498.7
22.5°	1463.2	1466.5	1468.8	1466.0	1478.3
25°	1414.0	1401.2	1428.6	1434.3	1454.2
27.5°	1398.8	1388.4	1401.2	1400.2	1416.8
30°	1386.5	1352.9	1358.6	1367.6	1387.9
32.5°	1369.0	1316.0	1310.3	1330.2	1352.9
35°	1338.2	1288.1	1274.8	1287.6	1321.7
37.5°	1312.2	1249.3	1222.8	1239.8	1284.3
40°	1273.4	1219.0	1177.8	1193.0	1245.5
42.5°	1227.0	1193.0	1129.6	1140.0	1200.1
45°	1180.2	1149.9	1082.7	1087.9	1159.4
47.5°	1132.4	1104.5	1034.0	1034.9	1107.3
50°	1085.5	1048.6	990.4	973.9	1052.0
52.5°	1024.5	990.4	946.4	919.5	999.4
55°	966.8	928.4	896.3	854.6	939.8
57.5°	910.5	867.9	846.1	792.6	872.1
60°	833.3	813.0	780.8	729.7	811.1
62.5°	754.3	747.7	715.0	662.0	735.8
65°	662.0	677.6	644.0	598.6	657.8
67.5°	575.0	602.9	566.0	538.0	582.5
70°	482.2	514.4	493.6	483.6	502.6
72.5°	390.9	422.1	424.0	416.9	423.1
75°	301.9	336.5	355.4	344.5	345.9
77.5°	229.0	245.6	266.4	274.9	273.0
80°	141.5	170.4	187.4	204.9	198.7
82.5°	71.5	95.6	116.4	135.3	126.3
85°	29.8	38.3	53.5	70.5	67.7
87.5°	9.0	15.1	16.1	22.7	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)