

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: P1213757

Luminaire Tested: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

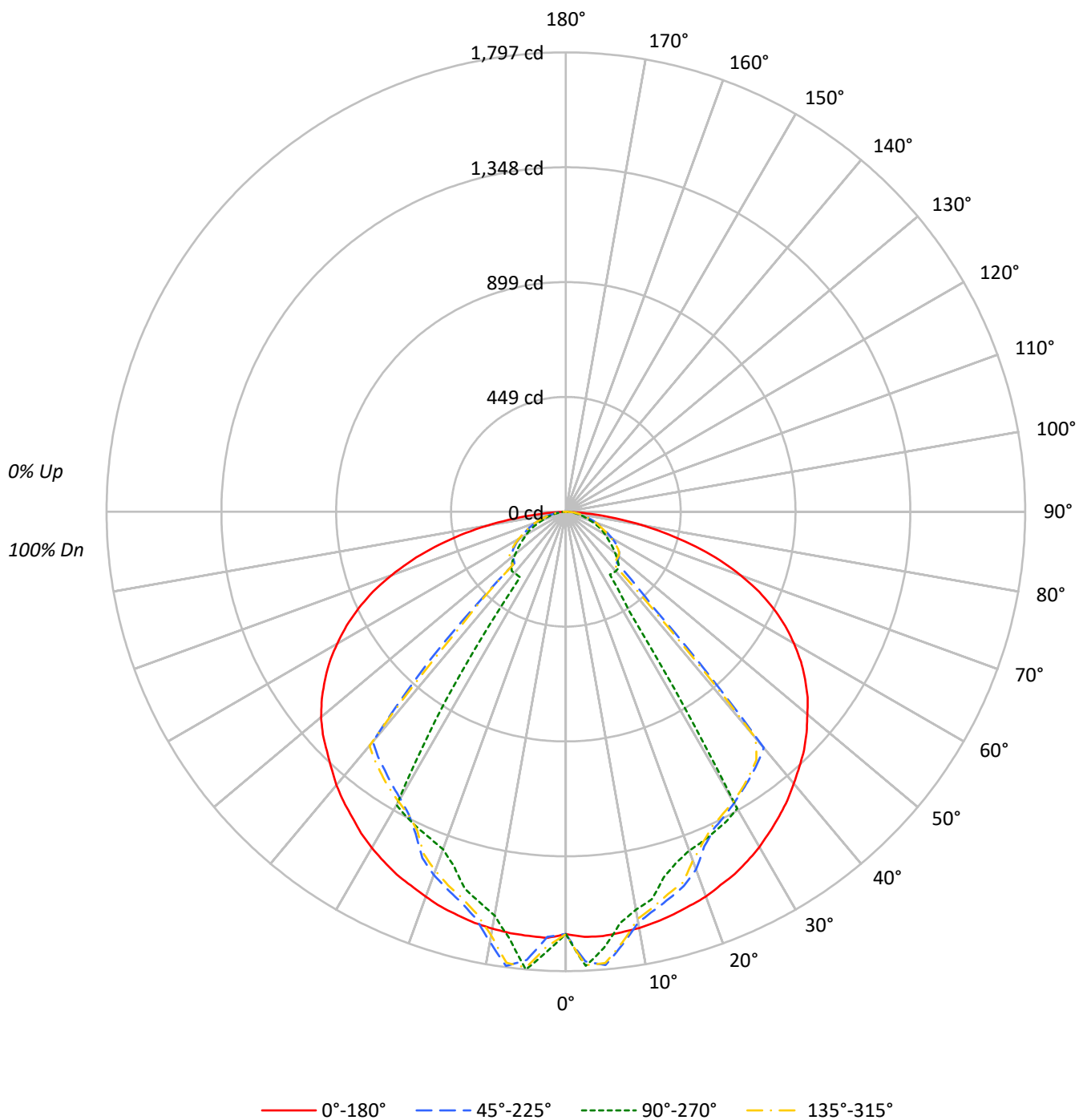
Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13349	13349	13349	13349
5°	13480	13450	13474	14116
10°	13493	12160	13512	12346
15°	13523	11251	13555	11608
20°	13622	10671	13622	10631
25°	13740	10467	13759	10369
30°	13878	10283	13913	10161
35°	14040	2342	14070	2443
40°	14265	2436	14350	2514
45°	14607	2422	14657	2510
50°	14948	2190	15149	2249
55°	15407	1944	15530	1972
60°	15798	1728	15832	1750
65°	16076	1507	16037	1484
70°	15847	1215	15797	1171
75°	14713	935	14820	896
80°	11942	665	12421	608
85°	6463	398	6825	305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 16187 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	4.9
10°-20°	446.9	13.5
20°-30°	661.9	20.0
30°-40°	666.9	20.2
40°-50°	521.0	15.7
50°-60°	402.4	12.2
60°-70°	270.2	8.2
70°-80°	137.8	4.2
80°-90°	38.3	1.2
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°	1271.3	38.4
0°-40°	1938.3	58.6
0°-60°	2861.7	86.5
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1652	1652	1652	1652	1652	
5°	1666	1712	1666	1797	1666	158
15°	1630	1480	1634	1527	1630	461
25°	1563	1379	1566	1366	1563	721
35°	1454	300	1457	313	1454	911
45°	1318	292	1323	302	1318	1016
55°	1142	212	1152	215	1142	1020
65°	897	142	895	140	897	882
75°	526	72	530	69	526	550
85°	95	23	100	17	95	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1664.8	1670.9	1675.4	1678.4	1679.9	1679.9	1680.7	1681.5	1691.3	1695.8	1698.9
5°	1666.3	1672.4	1681.5	1693.6	1704.2	1713.3	1720.8	1731.4	1742.0	1753.4	1757.2
7.5°	1659.5	1667.1	1685.2	1707.2	1727.6	1742.0	1751.9	1758.7	1764.0	1764.7	1768.5
10°	1653.4	1667.1	1692.1	1720.8	1746.6	1764.0	1764.0	1760.2	1765.5	1745.0	1724.6
12.5°	1642.8	1658.0	1692.1	1729.9	1754.1	1760.9	1757.9	1742.8	1711.7	1686.8	1675.4
15°	1630.0	1650.4	1692.8	1735.2	1755.6	1757.9	1729.2	1690.5	1667.1	1651.9	1633.0
17.5°	1615.6	1642.8	1693.6	1736.0	1743.5	1732.9	1678.4	1654.2	1630.0	1594.4	1568.7
20°	1602.0	1628.5	1687.5	1725.4	1729.9	1682.2	1639.8	1614.1	1573.2	1542.2	1530.8
22.5°	1580.8	1611.8	1682.2	1711.0	1693.6	1638.3	1597.4	1556.5	1519.4	1510.4	1496.7
25°	1563.4	1595.9	1670.1	1693.6	1647.4	1598.2	1550.5	1502.8	1485.4	1472.5	1460.4
27.5°	1539.9	1580.0	1654.2	1661.8	1598.2	1555.0	1485.4	1464.2	1448.3	1433.9	1428.6
30°	1514.1	1563.4	1632.2	1617.9	1557.3	1493.7	1442.2	1422.5	1411.2	1396.0	1390.0
32.5°	1484.6	1538.4	1608.0	1567.1	1513.4	1433.9	1400.6	1385.4	1370.3	1358.9	1321.1
35°	1454.3	1516.4	1579.3	1518.7	1460.4	1388.5	1358.9	1345.3	1330.9	1289.3	1249.9
37.5°	1423.3	1492.2	1544.4	1466.4	1390.0	1341.5	1316.5	1301.4	1268.9	1215.9	1196.2
40°	1387.7	1462.7	1499.8	1412.7	1328.7	1293.8	1270.4	1255.2	1181.8	1158.3	1152.3
42.5°	1352.1	1433.9	1445.2	1360.5	1277.9	1243.1	1223.4	1173.5	1123.5	1111.4	1113.7
45°	1318.1	1402.9	1385.4	1286.3	1224.9	1196.2	1162.9	1094.0	1067.5	1073.5	1075.0
47.5°	1277.2	1365.8	1322.6	1212.1	1170.4	1141.7	1067.5	1025.8	1022.0	1030.4	1034.9
50°	1233.3	1324.1	1256.0	1144.7	1111.4	1077.3	993.3	972.1	976.6	985.0	990.2
52.5°	1192.4	1277.2	1187.1	1081.9	1053.1	975.1	918.3	922.1	929.7	939.5	942.6
55°	1142.4	1220.4	1113.7	1018.3	991.0	888.8	863.1	872.1	879.7	888.0	894.1
57.5°	1090.2	1155.3	1026.6	947.1	903.2	812.3	814.6	820.7	826.0	835.8	345.2
60°	1030.4	1081.1	931.2	881.2	794.2	751.8	754.0	764.6	769.9	430.0	237.7
62.5°	968.3	994.8	844.9	806.3	694.2	691.2	701.8	706.3	480.7	227.1	222.6
65°	897.1	891.8	760.1	698.8	626.1	629.1	640.5	617.8	212.7	212.7	211.2
67.5°	818.4	786.6	677.6	578.4	560.2	567.0	579.2	202.1	196.8	198.4	193.1
70°	728.3	683.6	592.0	489.8	495.9	502.7	195.3	183.2	180.9	177.2	166.6
72.5°	632.9	571.6	484.5	425.5	429.3	269.5	171.1	165.0	157.5	149.9	138.5
75°	526.2	446.7	355.8	355.8	361.1	153.7	149.1	139.3	131.0	121.1	114.3
77.5°	412.6	343.7	276.3	286.9	140.1	128.7	120.4	109.8	103.0	96.9	93.1
80°	302.1	240.0	208.2	186.2	109.0	97.7	89.3	83.3	80.2	76.5	71.9
82.5°	198.4	144.6	144.6	87.8	76.5	67.4	65.1	60.6	57.5	55.3	53.0
85°	94.6	84.0	63.6	53.8	47.7	43.2	41.6	39.4	39.4	38.6	37.9
87.5°	34.8	37.9	28.0	27.3	25.7	25.0	25.7	25.7	26.5	25.7	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1706.4	1712.5	1717.0	1724.6	1734.5	1742.8	1750.3	1760.9	1777.6	1782.1	1785.9
5°	1757.2	1759.4	1764.7	1770.8	1772.3	1776.1	1775.3	1779.9	1782.1	1787.4	1776.1
7.5°	1760.2	1748.1	1733.7	1720.8	1711.7	1703.4	1698.1	1706.4	1711.0	1714.8	1703.4
10°	1696.6	1682.2	1673.9	1666.3	1657.2	1644.4	1626.9	1630.7	1629.2	1629.2	1625.4
12.5°	1656.5	1636.0	1614.8	1595.9	1587.6	1586.8	1587.6	1595.9	1595.9	1595.1	1590.6
15°	1593.6	1574.0	1563.4	1558.8	1558.8	1556.5	1556.5	1565.6	1563.4	1563.4	1561.1
17.5°	1552.0	1538.4	1530.8	1525.5	1523.2	1527.0	1531.6	1535.3	1536.1	1533.1	1521.0
20°	1517.9	1505.1	1496.0	1497.5	1496.7	1499.0	1501.3	1488.4	1472.5	1451.3	1441.5
22.5°	1482.3	1472.5	1465.7	1465.7	1456.6	1442.2	1421.0	1416.5	1414.2	1404.4	1396.0
25°	1448.3	1436.9	1427.1	1396.8	1377.9	1380.1	1376.4	1368.8	1368.0	1367.3	1370.3
27.5°	1414.2	1384.7	1346.8	1342.3	1334.7	1334.0	1338.5	1342.3	1342.3	1345.3	1349.1
30°	1343.8	1309.7	1302.9	1294.6	1297.6	1308.2	1310.5	1315.8	1317.3	1322.6	1325.6
32.5°	1279.5	1264.3	1258.3	1262.0	1271.9	1281.0	1286.3	1288.5	1292.3	1296.9	1300.6
35°	1227.2	1222.7	1228.0	1236.3	1246.1	1253.7	1258.3	1262.8	1266.6	1270.4	1273.4
37.5°	1188.6	1191.6	1199.2	1209.8	1219.6	1225.7	1229.5	1234.8	1240.1	1244.6	1226.5
40°	1152.3	1159.8	1168.2	1179.5	1187.8	1193.9	1197.7	1204.5	1159.1	524.7	287.7
42.5°	1120.5	1128.8	1134.9	1143.9	1153.0	1157.6	1124.3	501.9	283.9	282.4	286.2
45°	1081.9	1088.7	1098.5	1105.3	1113.7	731.3	279.4	282.4	277.8	280.9	282.4
47.5°	1042.5	1053.1	1058.4	1009.9	300.6	277.8	274.8	277.8	274.8	278.6	276.3
50°	997.8	1010.7	719.2	271.8	269.5	268.0	271.0	269.5	271.8	274.8	268.8
52.5°	952.4	589.8	263.5	261.9	263.5	261.9	267.2	263.5	264.2	261.2	253.6
55°	322.5	255.1	252.9	252.1	256.6	256.6	256.6	250.6	246.8	239.2	233.9
57.5°	246.8	246.8	246.0	246.8	245.3	243.8	237.0	231.7	226.4	215.8	212.7
60°	233.9	233.9	233.9	233.9	227.1	224.1	213.5	209.0	199.9	194.6	191.5
62.5°	223.3	221.8	215.0	212.7	205.2	196.8	190.8	186.2	177.2	174.1	171.9
65°	208.2	202.9	194.6	185.5	181.7	172.6	169.6	162.8	158.2	156.0	154.4
67.5°	183.2	175.6	168.8	162.8	156.0	152.9	149.1	143.8	140.8	139.3	137.8
70°	156.7	151.4	144.6	140.8	136.3	134.0	128.7	127.2	124.9	122.6	120.4
72.5°	131.0	127.9	124.9	119.6	118.1	116.6	111.3	108.3	105.2	102.2	100.7
75°	109.8	107.5	106.0	101.4	99.2	94.6	90.8	88.6	86.3	84.0	82.5
77.5°	90.1	88.6	84.0	81.0	79.5	75.7	74.2	75.0	73.4	70.4	68.9
80°	70.4	68.9	65.1	65.1	63.6	62.1	60.6	59.1	57.5	55.3	53.8
82.5°	53.8	52.2	50.7	49.2	47.7	46.9	46.2	44.7	43.2	41.6	40.9
85°	37.9	37.1	36.3	35.6	34.8	34.1	33.3	31.8	30.3	29.5	28.8
87.5°	25.7	25.0	24.2	23.5	22.7	22.0	21.2	20.4	18.9	18.2	17.4
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1785.9	1789.7	1785.9	1777.6	1772.3	1770.0	1774.6	1774.6	1777.6	1781.4	1782.1
5°	1757.9	1748.8	1738.2	1727.6	1722.3	1719.3	1711.0	1712.5	1714.8	1716.3	1717.8
7.5°	1688.3	1676.2	1661.8	1648.1	1642.8	1638.3	1628.5	1628.5	1628.5	1629.2	1633.8
10°	1617.1	1611.8	1605.7	1596.7	1589.9	1587.6	1579.3	1581.5	1580.0	1582.3	1587.6
12.5°	1583.8	1577.7	1572.4	1563.4	1555.8	1552.8	1549.0	1551.2	1550.5	1554.3	1558.8
15°	1553.5	1550.5	1544.4	1537.6	1530.8	1524.7	1511.1	1506.6	1503.5	1499.8	1505.1
17.5°	1503.5	1482.3	1468.0	1457.4	1449.8	1444.5	1440.7	1440.7	1443.0	1445.2	1449.8
20°	1435.4	1429.4	1422.5	1411.2	1403.6	1400.6	1398.3	1398.3	1402.1	1405.1	1413.5
22.5°	1388.5	1387.7	1385.4	1380.1	1376.4	1376.4	1377.1	1378.6	1383.9	1388.5	1396.8
25°	1366.5	1369.5	1368.0	1365.0	1362.7	1363.5	1362.0	1363.5	1368.8	1373.3	1380.1
27.5°	1349.1	1353.6	1352.1	1347.6	1343.8	1345.3	1347.6	1346.1	1350.6	1355.9	1361.2
30°	1325.6	1326.4	1329.4	1324.1	1322.6	1324.9	1325.6	1327.1	1331.7	1335.5	1340.0
32.5°	1299.1	1305.2	1304.4	1299.1	1299.1	1301.4	1302.2	1251.4	1156.8	996.3	952.4
35°	1273.4	1280.2	1268.9	1069.7	740.4	395.2	305.1	294.5	296.8	298.3	299.8
37.5°	941.8	446.7	284.7	286.9	289.2	291.5	293.7	296.0	298.3	300.6	301.3
40°	283.1	282.4	284.7	287.7	290.0	291.5	294.5	296.8	299.0	301.3	302.1
42.5°	280.1	281.6	283.9	286.9	290.0	293.0	295.3	298.3	299.8	301.3	302.1
45°	278.6	281.6	284.7	286.9	289.2	290.7	292.2	293.0	292.2	292.2	293.7
47.5°	276.3	279.4	280.1	279.4	280.1	279.4	279.4	279.4	277.1	276.3	276.3
50°	268.0	268.0	266.5	263.5	262.7	261.9	260.4	259.7	256.6	255.9	255.9
52.5°	250.6	249.8	247.6	243.8	242.3	240.7	240.0	239.2	236.2	234.7	235.4
55°	230.1	228.6	226.4	221.8	221.1	219.6	218.8	218.0	215.0	216.5	214.3
57.5°	211.2	208.2	205.2	204.4	201.4	200.6	199.9	199.1	196.8	197.6	196.1
60°	188.5	187.8	186.2	183.2	183.2	182.5	182.5	180.9	179.4	178.7	178.7
62.5°	171.9	169.6	168.1	168.1	165.8	165.8	165.8	164.3	162.8	163.5	162.8
65°	153.7	152.9	152.2	150.7	150.7	149.9	149.9	148.4	146.1	146.9	145.4
67.5°	138.5	137.0	135.5	134.8	131.7	130.2	129.5	128.7	125.7	126.4	124.9
70°	119.6	117.3	115.8	114.3	112.0	110.5	110.5	109.0	106.7	107.5	106.0
72.5°	99.9	98.4	96.9	96.1	93.9	93.1	92.4	91.6	89.3	90.1	89.3
75°	83.3	83.3	82.5	81.8	79.5	77.2	75.7	75.0	73.4	74.2	72.7
77.5°	68.9	67.4	65.9	65.9	63.6	62.1	60.6	60.6	60.6	59.8	59.1
80°	53.8	52.2	52.2	51.5	50.0	48.5	47.7	47.7	46.9	46.9	46.2
82.5°	40.9	39.4	38.6	38.6	37.1	36.3	35.6	34.8	34.8	34.8	34.1
85°	28.8	27.3	26.5	26.5	25.0	24.2	24.2	23.5	23.5	22.7	22.7
87.5°	17.4	16.7	15.9	15.9	14.4	13.6	13.6	13.6	12.9	12.9	12.1
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1782.1	1782.1	1776.8	1778.4	1776.1	1779.1	1775.3	1775.3	1779.9	1779.9	1782.9
5°	1718.6	1714.8	1714.0	1712.5	1704.9	1708.0	1704.2	1700.4	1705.7	1705.7	1712.5
7.5°	1631.5	1624.7	1627.7	1623.2	1618.6	1611.8	1614.1	1611.0	1614.8	1620.1	1626.9
10°	1586.8	1580.8	1584.6	1580.0	1582.3	1572.4	1573.2	1574.0	1577.7	1579.3	1585.3
12.5°	1558.1	1556.5	1555.0	1553.5	1555.0	1549.7	1546.7	1547.5	1549.0	1549.7	1554.3
15°	1497.5	1487.6	1490.7	1480.1	1480.8	1481.6	1475.5	1481.6	1480.8	1490.7	1499.8
17.5°	1448.3	1448.3	1443.0	1438.4	1435.4	1434.7	1430.1	1433.1	1430.1	1436.2	1438.4
20°	1414.2	1413.5	1412.7	1410.4	1402.9	1403.6	1405.9	1399.1	1398.3	1397.6	1402.1
22.5°	1398.3	1399.1	1396.0	1396.0	1389.2	1390.7	1391.5	1383.9	1384.7	1382.4	1384.7
25°	1381.7	1383.2	1379.4	1379.4	1377.9	1377.1	1373.3	1374.8	1370.3	1366.5	1370.3
27.5°	1362.0	1365.0	1362.0	1363.5	1360.5	1358.9	1356.7	1355.2	1350.6	1349.9	1352.1
30°	1343.8	1345.3	1344.6	1340.8	1340.0	1335.5	1337.7	1333.2	1328.7	1329.4	1330.9
32.5°	688.9	657.9	507.2	458.0	453.5	470.1	557.2	678.3	879.0	1073.5	1213.6
35°	300.6	300.6	300.6	299.8	299.8	299.0	298.3	297.5	296.8	296.0	295.3
37.5°	302.1	302.1	302.1	302.1	301.3	300.6	300.6	299.0	298.3	297.5	296.8
40°	302.8	303.6	303.6	303.6	302.8	302.8	302.1	300.6	299.8	298.3	296.8
42.5°	302.1	302.8	302.8	302.1	302.1	301.3	301.3	300.6	299.8	299.0	298.3
45°	292.2	293.0	291.5	291.5	290.7	290.7	290.7	290.7	290.7	291.5	291.5
47.5°	274.8	274.8	274.1	273.3	273.3	272.5	273.3	272.5	274.1	274.8	276.3
50°	254.4	254.4	252.9	252.1	252.1	252.1	252.1	252.9	253.6	255.1	256.6
52.5°	233.2	233.2	232.4	231.7	230.9	230.9	233.2	232.4	233.2	233.9	236.2
55°	212.7	213.5	212.0	212.0	211.2	211.2	211.2	212.0	212.7	213.5	215.8
57.5°	195.3	195.3	193.8	193.8	193.8	193.1	195.3	193.8	194.6	195.3	196.8
60°	177.9	177.2	177.2	176.4	176.4	176.4	177.9	177.2	177.2	177.9	179.4
62.5°	162.0	162.0	161.3	161.3	160.5	160.5	162.0	161.3	161.3	162.0	162.8
65°	143.8	143.8	143.1	142.3	144.6	142.3	144.6	143.1	144.6	145.4	146.9
67.5°	123.4	123.4	123.4	122.6	122.6	124.2	124.9	123.4	124.2	125.7	126.4
70°	105.2	105.2	104.5	104.5	104.5	106.0	106.7	105.2	106.0	106.7	108.3
72.5°	89.3	87.8	87.8	87.1	88.6	88.6	89.3	88.6	89.3	89.3	90.8
75°	73.4	71.9	71.9	71.9	73.4	72.7	73.4	72.7	73.4	73.4	74.2
77.5°	59.1	58.3	57.5	57.5	59.1	59.1	59.1	58.3	59.1	59.8	60.6
80°	46.2	45.4	44.7	44.7	46.2	46.2	46.2	46.9	46.2	46.9	47.7
82.5°	34.1	33.3	32.6	34.1	34.1	34.1	34.1	34.8	34.1	34.8	35.6
85°	22.7	22.0	21.2	22.7	22.7	22.7	22.7	23.5	22.7	23.5	24.2
87.5°	12.1	11.4	11.4	12.1	12.1	12.1	12.9	12.9	12.9	13.6	13.6
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1787.4	1789.7	1789.0	1784.4	1779.9	1774.6	1770.8	1771.5	1779.1	1781.4	1774.6
5°	1712.5	1726.9	1726.9	1736.7	1731.4	1726.9	1729.9	1746.6	1754.9	1767.8	1772.3
7.5°	1635.3	1642.1	1641.3	1651.2	1649.7	1649.7	1651.9	1673.9	1684.5	1695.1	1698.1
10°	1592.1	1598.9	1598.2	1598.9	1596.7	1591.4	1591.4	1601.2	1610.3	1615.6	1617.1
12.5°	1561.1	1564.9	1564.1	1564.1	1562.6	1558.1	1557.3	1565.6	1575.5	1582.3	1583.0
15°	1514.9	1525.5	1527.8	1537.6	1535.3	1529.3	1530.8	1537.6	1543.7	1549.7	1547.5
17.5°	1446.0	1451.3	1452.1	1455.8	1454.3	1454.3	1463.4	1488.4	1505.1	1519.4	1521.0
20°	1406.6	1410.4	1408.9	1417.2	1413.5	1412.7	1415.0	1425.6	1433.1	1440.0	1452.1
22.5°	1387.7	1390.7	1388.5	1389.2	1382.4	1376.4	1374.8	1383.2	1391.5	1400.6	1400.6
25°	1371.8	1374.1	1373.3	1371.8	1366.5	1358.2	1356.7	1358.2	1361.2	1362.0	1356.7
27.5°	1352.9	1354.4	1354.4	1355.2	1348.3	1340.8	1339.3	1337.7	1340.8	1340.0	1331.7
30°	1333.2	1330.9	1331.7	1332.4	1326.4	1319.6	1316.5	1315.8	1318.8	1318.1	1309.7
32.5°	1286.3	1303.7	1305.2	1306.7	1301.4	1295.3	1292.3	1290.0	1291.6	1290.8	1283.2
35°	294.5	299.8	367.2	831.3	1128.8	1249.9	1262.8	1259.8	1260.5	1260.5	1254.5
37.5°	295.3	294.5	293.7	291.5	289.2	287.7	497.4	1060.7	1228.7	1229.5	1224.2
40°	295.3	294.5	293.7	292.2	289.2	286.9	283.1	280.1	286.9	631.4	1155.3
42.5°	296.8	295.3	293.7	292.2	289.2	286.2	283.1	279.4	281.6	280.1	276.3
45°	292.2	291.5	291.5	290.7	289.2	286.2	282.4	277.8	275.6	277.8	274.1
47.5°	277.8	278.6	280.9	281.6	281.6	282.4	280.1	277.1	273.3	275.6	271.0
50°	258.2	259.7	260.4	264.2	265.7	268.8	269.5	269.5	268.8	271.8	268.8
52.5°	237.0	238.5	242.3	243.8	245.3	249.8	251.3	253.6	255.1	259.7	262.7
55°	216.5	217.3	218.8	221.8	224.1	227.9	230.1	232.4	236.2	238.5	247.6
57.5°	197.6	198.4	201.4	202.1	203.7	206.7	209.0	212.0	215.0	216.5	227.1
60°	179.4	180.2	182.5	183.2	184.0	187.0	189.3	191.5	193.8	195.3	202.9
62.5°	163.5	163.5	165.8	165.8	166.6	168.8	170.3	171.9	174.1	174.9	178.7
65°	147.6	148.4	149.9	149.9	150.7	152.2	152.9	153.7	156.0	156.0	159.0
67.5°	127.9	128.7	131.0	132.5	133.2	136.3	137.0	137.8	139.3	140.1	141.6
70°	109.0	109.8	112.0	112.8	113.6	115.8	117.3	119.6	121.9	124.2	125.7
72.5°	91.6	92.4	94.6	94.6	96.9	97.7	99.2	99.9	102.2	103.7	106.0
75°	75.0	75.7	78.0	78.0	80.2	81.0	81.8	82.5	84.0	85.5	87.1
77.5°	61.3	61.3	64.4	65.9	67.4	67.4	68.1	68.1	68.1	68.9	70.4
80°	48.5	48.5	50.7	52.2	53.8	53.8	54.5	55.3	56.0	56.0	56.8
82.5°	36.3	36.3	38.6	39.4	40.9	40.9	40.9	41.6	42.4	41.6	43.2
85°	25.0	25.0	26.5	27.3	28.8	28.8	28.8	29.5	30.3	29.5	30.3
87.5°	14.4	15.1	15.9	16.7	17.4	18.2	18.2	18.2	18.9	18.9	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1767.0	1757.9	1757.2	1746.6	1743.5	1744.3	1736.0	1732.9	1719.3	1716.3	1701.9
5°	1773.8	1778.4	1776.1	1775.3	1777.6	1776.1	1770.0	1767.0	1764.7	1758.7	1746.6
7.5°	1698.9	1701.9	1704.2	1714.0	1722.3	1736.7	1751.9	1761.7	1769.3	1770.8	1760.9
10°	1622.4	1636.8	1646.6	1661.8	1673.9	1682.2	1691.3	1699.6	1721.6	1743.5	1756.4
12.5°	1583.0	1586.8	1586.1	1594.4	1602.7	1624.7	1645.9	1658.0	1674.6	1684.5	1708.0
15°	1549.7	1550.5	1552.8	1558.8	1563.4	1570.9	1580.8	1598.9	1632.2	1647.4	1660.3
17.5°	1519.4	1519.4	1521.0	1526.3	1532.3	1539.1	1545.2	1552.8	1569.4	1594.4	1626.2
20°	1471.0	1492.2	1494.5	1493.7	1496.7	1509.6	1511.1	1524.7	1533.1	1542.9	1574.0
22.5°	1399.1	1411.9	1430.1	1458.1	1468.7	1474.8	1479.3	1485.4	1498.2	1509.6	1522.5
25°	1359.7	1368.0	1373.3	1381.7	1403.6	1439.2	1446.0	1452.8	1461.1	1469.5	1485.4
27.5°	1324.9	1324.1	1327.9	1335.5	1341.5	1360.5	1393.8	1420.3	1421.8	1433.9	1447.5
30°	1299.9	1295.3	1290.0	1288.5	1296.9	1306.7	1316.5	1358.2	1387.0	1393.0	1407.4
32.5°	1276.4	1268.9	1261.3	1255.2	1249.9	1258.3	1264.3	1282.5	1319.6	1354.4	1362.0
35°	1247.7	1240.1	1231.0	1224.2	1215.9	1215.1	1214.3	1231.8	1243.9	1285.5	1321.8
37.5°	1218.1	1209.8	1202.2	1194.7	1186.3	1180.3	1176.5	1181.0	1192.4	1210.6	1271.1
40°	1187.1	1177.2	1169.7	1163.6	1152.3	1147.7	1140.1	1137.1	1137.9	1153.8	1185.6
42.5°	709.4	1131.1	1134.9	1128.0	1118.2	1112.1	1103.8	1100.0	1092.5	1100.0	1118.2
45°	273.3	276.3	827.5	1093.2	1081.1	1073.5	1066.0	1062.2	1053.8	1047.8	1064.4
47.5°	268.0	271.0	265.0	375.5	1031.9	1034.2	1025.1	1021.3	1013.0	1008.4	1003.9
50°	264.2	266.5	261.9	263.5	258.2	945.6	983.4	978.9	969.8	964.5	955.4
52.5°	260.4	260.4	257.4	253.6	252.1	252.9	795.7	935.7	925.1	919.8	907.7
55°	248.3	249.8	252.9	246.8	245.3	244.5	242.3	757.8	875.9	869.9	859.3
57.5°	230.1	233.2	241.5	240.0	240.0	233.9	232.4	232.4	703.3	819.2	808.6
60°	209.0	212.0	221.1	224.1	226.4	224.9	223.3	222.6	219.6	741.2	754.8
62.5°	187.0	190.0	193.1	202.9	205.9	209.7	214.3	212.0	209.0	209.0	698.0
65°	163.5	168.1	169.6	178.7	182.5	189.3	193.1	198.4	196.8	196.1	199.9
67.5°	143.1	148.4	149.1	152.9	159.7	162.8	167.3	177.2	181.7	183.2	184.7
70°	125.7	128.7	131.0	132.5	137.0	137.8	146.1	152.9	159.7	167.3	169.6
72.5°	108.3	110.5	115.1	113.6	115.1	118.1	122.6	127.2	134.0	144.6	151.4
75°	88.6	90.1	93.1	94.6	97.7	99.9	103.0	106.7	112.8	118.1	127.2
77.5°	71.2	71.9	74.2	75.0	78.0	80.2	85.5	87.8	91.6	95.4	100.7
80°	57.5	57.5	58.3	58.3	60.6	62.8	66.6	68.9	73.4	76.5	76.5
82.5°	43.9	43.9	46.2	46.2	47.7	47.7	50.0	50.0	52.2	53.8	55.3
85°	31.0	31.8	33.3	32.6	34.1	33.3	34.8	36.3	37.1	36.3	35.6
87.5°	20.4	20.4	22.0	21.2	22.0	22.0	23.5	23.5	24.2	24.2	23.5
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1696.6	1685.2	1678.4	1670.1	1667.8	1665.6	1668.6	1668.6	1664.0	1660.3	1653.4
5°	1736.0	1723.9	1711.0	1697.4	1684.5	1670.9	1665.6	1664.8	1656.5	1651.9	1649.7
7.5°	1756.4	1750.3	1736.0	1717.0	1697.4	1673.1	1662.5	1656.5	1648.1	1646.6	1646.6
10°	1758.7	1751.9	1744.3	1730.7	1708.0	1676.2	1655.7	1643.6	1636.0	1641.3	1651.2
12.5°	1736.7	1749.6	1742.8	1733.7	1715.5	1676.9	1647.4	1629.2	1626.9	1640.6	1666.3
15°	1680.7	1718.6	1737.5	1728.4	1714.0	1675.4	1633.8	1612.6	1612.6	1640.6	1673.9
17.5°	1638.3	1667.8	1714.0	1721.6	1704.9	1672.4	1620.9	1595.9	1602.7	1643.6	1679.2
20°	1603.5	1621.6	1666.3	1708.7	1692.8	1665.6	1602.0	1576.2	1589.9	1639.1	1686.8
22.5°	1549.0	1585.3	1612.6	1675.4	1680.7	1652.7	1583.0	1552.0	1579.3	1639.1	1683.0
25°	1496.0	1539.9	1568.7	1630.0	1662.5	1636.8	1565.6	1526.3	1567.9	1636.8	1679.9
27.5°	1458.9	1479.3	1531.6	1575.5	1635.3	1615.6	1542.2	1498.2	1553.5	1624.7	1662.5
30°	1419.5	1433.1	1484.6	1526.3	1598.9	1591.4	1517.9	1467.2	1535.3	1613.3	1617.1
32.5°	1376.4	1391.5	1418.0	1478.6	1548.2	1568.7	1490.7	1436.2	1515.7	1595.9	1564.1
35°	1332.4	1343.8	1365.0	1430.1	1489.2	1534.6	1457.4	1400.6	1502.0	1569.4	1513.4
37.5°	1288.5	1300.6	1318.8	1373.3	1427.1	1502.8	1428.6	1365.0	1477.0	1522.5	1460.4
40°	1246.9	1253.7	1272.6	1306.7	1375.6	1470.2	1396.0	1327.9	1451.3	1462.7	1388.5
42.5°	1170.4	1204.5	1221.9	1249.2	1317.3	1425.6	1358.2	1288.5	1422.5	1402.9	1316.5
45°	1087.9	1162.1	1169.7	1196.9	1265.8	1377.9	1322.6	1249.9	1395.3	1351.4	1248.4
47.5°	1020.5	1074.3	1118.2	1140.9	1204.5	1321.8	1289.3	1217.4	1354.4	1286.3	1181.8
50°	960.7	989.5	1069.0	1085.6	1131.1	1254.5	1249.9	1179.5	1297.6	1204.5	1116.7
52.5°	902.4	922.9	994.8	1030.4	1067.5	1181.8	1203.0	1142.4	1235.5	1122.7	1050.8
55°	851.7	858.5	897.9	972.8	1006.1	1108.4	1151.5	1099.3	1156.8	1044.8	987.2
57.5°	799.5	793.4	822.2	918.3	942.6	1033.4	1097.0	1055.4	1093.2	965.3	921.4
60°	745.0	736.6	748.7	812.3	875.2	959.2	1032.6	1006.9	1016.0	886.5	847.9
62.5°	688.2	679.9	676.1	716.2	809.3	882.7	967.5	953.2	921.4	814.6	757.1
65°	629.1	620.8	614.7	630.6	736.6	783.6	894.9	891.1	817.6	738.9	637.5
67.5°	191.5	564.8	551.9	551.1	620.8	693.5	816.1	810.1	713.2	657.9	548.9
70°	172.6	458.0	486.8	480.0	510.3	601.9	726.0	721.5	611.7	527.7	485.3
72.5°	158.2	162.0	430.0	422.4	429.3	511.8	632.2	620.0	518.6	416.4	419.4
75°	135.5	142.3	148.4	356.6	347.5	424.0	530.0	511.0	427.7	343.7	350.5
77.5°	110.5	118.9	123.4	259.7	280.9	302.1	423.2	398.2	294.5	274.8	131.0
80°	82.5	89.3	96.9	103.7	213.5	211.2	314.2	289.2	205.2	171.1	102.2
82.5°	60.6	62.8	67.4	75.0	84.8	141.6	202.1	177.9	142.3	78.0	70.4
85°	37.9	40.9	43.2	45.4	51.5	84.8	99.9	79.5	59.8	47.7	44.7
87.5°	24.2	24.2	23.5	24.2	25.0	30.3	34.1	32.6	25.7	24.2	24.2
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1645.9	1635.3	1635.3	1632.2	1634.5	1634.5	1633.8	1634.5	1639.8	1642.8	1648.1
5°	1645.1	1642.1	1648.9	1657.2	1667.1	1679.2	1682.2	1692.8	1702.7	1715.5	1729.2
7.5°	1655.0	1665.6	1678.4	1692.1	1711.7	1726.1	1739.0	1751.9	1760.9	1773.1	1780.6
10°	1669.3	1690.5	1712.5	1729.9	1751.1	1763.2	1771.5	1773.1	1760.2	1739.8	1723.1
12.5°	1689.8	1714.8	1735.2	1751.9	1761.7	1757.2	1732.9	1708.0	1693.6	1672.4	1642.8
15°	1707.2	1729.9	1751.1	1744.3	1717.8	1692.8	1673.9	1644.4	1615.6	1595.9	1583.0
17.5°	1714.8	1736.7	1729.2	1693.6	1668.6	1639.8	1601.2	1578.5	1559.6	1544.4	1536.9
20°	1719.3	1715.5	1674.6	1648.9	1600.4	1574.0	1549.0	1527.8	1513.4	1505.8	1504.3
22.5°	1707.2	1661.0	1626.2	1580.0	1544.4	1522.5	1502.8	1485.4	1475.5	1469.5	1465.7
25°	1667.1	1613.3	1561.8	1525.5	1495.2	1476.3	1461.1	1446.8	1434.7	1431.6	1424.1
27.5°	1611.0	1567.1	1499.0	1471.0	1444.5	1435.4	1418.8	1404.4	1393.8	1384.7	1360.5
30°	1564.9	1495.2	1446.0	1420.3	1404.4	1393.8	1374.8	1359.7	1341.5	1308.2	1294.6
32.5°	1508.1	1439.2	1392.3	1377.9	1358.2	1349.1	1327.9	1294.6	1266.6	1253.0	1252.2
35°	1434.7	1377.9	1343.8	1330.9	1315.0	1299.9	1256.0	1225.7	1212.1	1213.6	1224.9
37.5°	1373.3	1322.6	1300.6	1282.5	1264.3	1225.7	1188.6	1174.2	1178.0	1185.6	1190.9
40°	1311.2	1272.6	1247.7	1233.3	1192.4	1154.5	1134.9	1140.1	1147.0	1152.3	1159.1
42.5°	1250.7	1223.4	1198.4	1170.4	1114.4	1094.0	1098.5	1105.3	1111.4	1119.0	1125.8
45°	1193.1	1168.9	1140.1	1076.6	1048.5	1053.8	1060.7	1066.0	1075.0	1080.3	1087.2
47.5°	1138.6	1112.9	1062.2	1006.1	1003.1	1013.7	1019.8	1026.6	1033.4	1019.8	562.5
50°	1077.3	1050.8	973.6	952.4	959.2	969.1	976.6	983.4	875.9	348.3	268.0
52.5°	1016.7	949.4	900.2	906.2	913.0	924.4	929.7	690.4	274.8	261.9	262.7
55°	949.4	863.1	848.7	856.2	862.3	873.7	579.2	253.6	252.1	251.3	257.4
57.5°	843.4	791.1	797.2	804.8	810.8	572.3	246.8	245.3	246.0	246.8	247.6
60°	748.7	737.4	744.2	751.0	531.5	238.5	233.9	234.7	237.7	235.4	229.4
62.5°	673.8	682.9	689.7	604.1	226.4	224.1	226.4	224.1	218.8	215.0	207.4
65°	616.3	625.3	630.6	212.7	212.0	215.0	212.7	205.2	196.8	186.2	184.0
67.5°	555.7	564.8	202.1	196.8	199.9	196.1	187.0	177.9	171.9	162.8	159.0
70°	492.9	211.2	183.2	182.5	177.2	171.1	161.3	152.2	144.6	140.8	137.0
72.5°	355.8	167.3	165.0	159.0	149.9	141.6	133.2	127.9	124.2	121.9	119.6
75°	148.4	145.4	138.5	127.9	118.9	115.1	109.0	105.2	103.7	99.2	97.7
77.5°	124.2	118.1	108.3	100.7	95.4	93.1	88.6	84.0	81.8	81.0	78.0
80°	95.4	87.1	82.5	78.7	77.2	71.9	66.6	64.4	62.8	62.1	59.8
82.5°	65.1	62.1	59.1	53.8	53.8	51.5	49.2	47.7	46.2	46.2	44.7
85°	42.4	40.1	39.4	37.1	37.1	35.6	34.8	34.1	33.3	32.6	31.8
87.5°	24.2	24.2	25.0	24.2	24.2	23.5	22.7	22.0	21.2	21.2	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1655.0	1662.5	1664.0	1689.8	1704.2	1703.4	1698.9	1712.5	1704.2	1699.6	1704.2
5°	1742.8	1751.9	1759.4	1787.4	1797.3	1801.8	1801.1	1808.6	1802.6	1797.3	1797.3
7.5°	1785.9	1789.0	1792.0	1785.2	1780.6	1773.1	1761.7	1745.0	1736.7	1727.6	1716.3
10°	1714.8	1704.9	1708.7	1695.1	1683.7	1675.4	1664.8	1651.2	1639.8	1631.5	1618.6
12.5°	1627.7	1626.9	1628.5	1630.7	1619.4	1612.6	1604.2	1594.4	1586.1	1577.0	1566.4
15°	1574.7	1575.5	1581.5	1579.3	1575.5	1571.7	1562.6	1559.6	1552.0	1542.2	1536.1
17.5°	1536.9	1540.6	1546.7	1543.7	1537.6	1533.8	1527.0	1520.2	1513.4	1505.8	1496.7
20°	1503.5	1507.3	1511.1	1507.3	1496.0	1490.7	1481.6	1460.4	1445.2	1430.1	1416.5
22.5°	1467.2	1469.5	1466.4	1454.3	1425.6	1411.9	1401.3	1395.3	1382.4	1374.1	1365.8
25°	1421.8	1408.9	1389.2	1375.6	1364.2	1358.2	1353.6	1352.9	1351.4	1349.9	1346.1
27.5°	1347.6	1343.0	1332.4	1327.1	1327.9	1330.2	1330.9	1333.2	1330.9	1327.9	1324.9
30°	1292.3	1294.6	1295.3	1296.9	1300.6	1302.9	1303.7	1306.7	1305.2	1302.9	1301.4
32.5°	1257.5	1262.8	1265.8	1270.4	1272.6	1276.4	1276.4	1281.0	1276.4	1275.7	1274.2
35°	1228.7	1233.3	1234.8	1241.6	1243.9	1247.7	1247.7	1251.4	1247.7	1209.0	954.7
37.5°	1200.0	1204.5	1207.5	1213.6	1214.3	1216.6	1122.7	821.4	530.0	410.3	313.4
40°	1165.9	1171.2	1174.2	1176.5	826.7	524.7	361.1	293.7	293.7	296.0	298.3
42.5°	1129.6	1133.3	789.6	459.5	286.2	285.4	287.7	290.0	292.2	295.3	298.3
45°	888.0	448.2	284.7	277.8	280.1	283.1	286.2	289.2	293.0	296.0	297.5
47.5°	291.5	273.3	277.1	274.1	277.8	281.6	284.7	287.7	288.4	289.2	288.4
50°	269.5	269.5	271.8	271.8	274.8	276.3	276.3	276.3	273.3	272.5	270.3
52.5°	260.4	266.5	263.5	265.0	263.5	261.2	258.9	256.6	252.1	250.6	247.6
55°	255.9	258.2	250.6	248.3	245.3	239.2	236.2	233.2	229.4	227.9	224.1
57.5°	245.3	240.0	231.7	227.9	222.6	216.5	213.5	211.2	207.4	205.9	203.7
60°	225.6	215.0	209.7	205.2	199.1	193.8	191.5	190.0	187.0	186.2	184.0
62.5°	201.4	192.3	187.8	181.7	177.2	174.1	171.9	171.1	168.1	168.1	166.6
65°	174.9	170.3	166.6	160.5	158.2	155.2	154.4	153.7	152.2	151.4	149.9
67.5°	153.7	150.7	145.4	142.3	140.8	138.5	137.0	135.5	132.5	131.0	128.7
70°	134.8	132.5	127.2	124.9	121.9	118.1	115.8	114.3	112.0	110.5	108.3
72.5°	116.6	109.8	106.0	103.7	101.4	97.7	96.9	95.4	93.1	92.4	90.1
75°	93.9	88.6	86.3	84.8	82.5	80.2	80.2	80.2	78.0	77.2	76.5
77.5°	75.0	71.9	70.4	68.9	68.1	66.6	64.4	63.6	61.3	61.3	60.6
80°	57.5	56.0	54.5	53.8	53.0	51.5	50.0	49.2	46.9	46.9	46.2
82.5°	42.4	41.6	40.9	40.1	39.4	38.6	36.3	35.6	34.1	34.1	33.3
85°	30.3	29.5	28.0	27.3	27.3	26.5	24.2	23.5	22.0	22.0	22.0
87.5°	18.9	18.2	17.4	16.7	15.9	15.1	13.6	12.9	12.9	11.4	10.6
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1695.1	1708.0	1706.4	1715.5	1717.8	1722.3	1723.9	1724.6	1713.3	1722.3	1723.1
5°	1795.0	1797.3	1798.8	1802.6	1806.4	1807.1	1803.3	1798.8	1800.3	1797.3	1789.7
7.5°	1714.8	1703.4	1701.1	1698.1	1696.6	1695.1	1688.3	1694.3	1687.5	1684.5	1673.9
10°	1616.3	1605.7	1605.0	1605.0	1607.3	1606.5	1605.0	1602.0	1608.0	1604.2	1602.0
12.5°	1564.9	1561.1	1563.4	1561.8	1567.9	1569.4	1567.9	1567.9	1566.4	1563.4	1564.9
15°	1533.8	1530.8	1533.1	1530.8	1535.3	1536.1	1532.3	1534.6	1530.8	1527.0	1525.5
17.5°	1492.9	1486.1	1480.8	1473.3	1474.0	1472.5	1468.0	1468.0	1464.2	1454.3	1455.1
20°	1414.2	1407.4	1404.4	1404.4	1408.2	1409.7	1408.9	1410.4	1406.6	1405.1	1399.1
22.5°	1365.0	1364.2	1365.8	1369.5	1375.6	1383.9	1384.7	1384.7	1384.7	1383.9	1376.4
25°	1347.6	1347.6	1349.1	1354.4	1358.9	1365.0	1366.5	1368.0	1366.5	1366.5	1359.7
27.5°	1327.9	1326.4	1329.4	1334.7	1340.0	1344.6	1348.3	1349.1	1346.8	1346.8	1349.1
30°	1303.7	1302.9	1306.7	1312.0	1316.5	1321.1	1324.9	1327.9	1324.9	1324.9	1322.6
32.5°	1278.7	1278.7	1280.2	1248.4	1157.6	1042.5	1044.8	978.1	932.0	873.7	950.9
35°	798.0	580.7	498.9	422.4	368.7	333.9	333.1	321.8	316.5	312.7	311.9
37.5°	301.3	302.8	305.9	307.4	309.6	311.2	311.9	311.9	311.9	311.9	311.2
40°	300.6	303.6	305.9	308.1	310.4	311.9	311.9	312.7	313.4	313.4	313.4
42.5°	301.3	304.3	307.4	309.6	311.2	311.9	312.7	313.4	313.4	313.4	313.4
45°	300.6	302.1	302.1	302.8	302.8	302.8	303.6	303.6	302.8	302.1	303.6
47.5°	289.2	289.2	286.9	286.2	285.4	283.9	284.7	283.9	283.1	282.4	283.9
50°	269.5	266.5	265.0	263.5	262.7	261.2	261.9	261.2	260.4	258.9	261.2
52.5°	246.0	245.3	242.3	240.7	240.0	240.7	239.2	238.5	237.7	237.0	237.7
55°	223.3	220.3	219.6	218.0	217.3	218.0	217.3	216.5	215.8	215.0	215.8
57.5°	202.9	200.6	199.9	198.4	198.4	198.4	198.4	197.6	196.8	196.1	196.8
60°	183.2	181.7	180.9	180.9	180.2	180.2	180.2	179.4	178.7	178.7	179.4
62.5°	166.6	166.6	164.3	163.5	163.5	164.3	163.5	162.8	162.0	161.3	162.8
65°	149.1	146.1	145.4	143.8	142.3	143.1	142.3	141.6	140.8	140.1	141.6
67.5°	127.9	127.2	124.2	122.6	121.9	122.6	121.9	121.1	120.4	119.6	121.1
70°	107.5	107.5	104.5	103.7	103.0	103.0	102.2	102.2	101.4	100.7	102.2
72.5°	89.3	89.3	88.6	87.1	86.3	85.5	84.8	84.0	84.0	84.8	84.8
75°	74.2	72.7	69.7	70.4	69.7	68.9	68.9	68.1	67.4	68.9	68.1
77.5°	58.3	57.5	55.3	56.0	55.3	54.5	54.5	53.8	53.0	53.8	53.8
80°	43.9	43.9	43.2	42.4	42.4	41.6	40.9	40.9	40.1	40.9	40.9
82.5°	31.8	31.8	31.0	30.3	29.5	29.5	28.8	28.8	28.8	28.8	28.8
85°	20.4	19.7	19.7	18.2	18.2	18.2	17.4	17.4	17.4	17.4	17.4
87.5°	9.8	9.8	9.1	9.1	8.3	7.6	7.6	6.8	6.8	7.6	7.6
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1709.5	1719.3	1711.0	1714.8	1715.5	1728.4	1727.6	1730.7	1725.4	1719.3	1711.0
5°	1796.5	1792.0	1785.9	1800.3	1792.7	1801.8	1804.9	1810.9	1810.9	1810.2	1803.3
7.5°	1685.2	1675.4	1683.0	1688.3	1690.5	1684.5	1696.6	1710.2	1721.6	1728.4	1729.2
10°	1598.2	1601.2	1600.4	1602.7	1608.0	1607.3	1614.8	1622.4	1625.4	1630.0	1631.5
12.5°	1557.3	1556.5	1558.1	1563.4	1566.4	1565.6	1573.2	1577.7	1579.3	1580.0	1579.3
15°	1524.7	1519.4	1523.2	1524.0	1526.3	1526.3	1535.3	1542.2	1545.2	1546.7	1545.2
17.5°	1463.4	1450.5	1462.7	1462.7	1471.0	1469.5	1483.9	1495.2	1501.3	1505.8	1505.8
20°	1402.9	1396.8	1401.3	1399.8	1405.9	1405.1	1414.2	1421.8	1427.1	1430.9	1435.4
22.5°	1378.6	1380.1	1373.3	1374.1	1374.1	1373.3	1377.9	1381.7	1383.2	1385.4	1383.9
25°	1362.7	1364.2	1362.0	1358.2	1356.7	1358.2	1360.5	1365.0	1365.8	1364.2	1358.9
27.5°	1346.8	1342.3	1346.1	1339.3	1337.7	1340.8	1343.8	1344.6	1345.3	1345.3	1340.8
30°	1322.6	1318.8	1322.6	1319.6	1316.5	1319.6	1321.8	1321.8	1323.4	1324.1	1318.8
32.5°	924.4	932.0	1054.6	1128.8	1233.3	1286.3	1296.1	1296.1	1297.6	1297.6	1293.1
35°	314.9	315.7	341.4	370.2	431.5	507.2	606.4	657.9	832.0	1040.2	1241.6
37.5°	311.2	310.4	309.6	308.9	308.1	307.4	305.9	305.1	309.6	367.2	498.2
40°	312.7	311.9	310.4	309.6	308.9	307.4	306.6	305.1	303.6	302.1	300.6
42.5°	312.7	311.9	311.2	310.4	309.6	308.9	307.4	305.9	304.3	302.1	299.8
45°	302.1	302.1	302.8	302.8	303.6	303.6	303.6	302.8	302.8	302.1	299.0
47.5°	282.4	282.4	284.7	284.7	286.2	287.7	287.7	289.2	291.5	293.0	293.7
50°	259.7	259.7	261.9	262.7	264.2	266.5	268.8	269.5	271.8	274.8	277.8
52.5°	237.0	237.0	239.2	239.2	240.7	243.0	245.3	246.0	249.1	252.1	255.9
55°	215.8	215.8	217.3	218.0	218.8	220.3	222.6	222.6	225.6	227.9	231.7
57.5°	196.8	198.4	198.4	198.4	199.1	200.6	202.1	202.1	204.4	206.7	209.7
60°	178.7	180.2	180.2	180.2	180.9	181.7	183.2	183.2	184.7	186.2	189.3
62.5°	162.0	163.5	163.5	164.3	164.3	165.0	166.6	165.8	167.3	168.1	170.3
65°	140.8	142.3	143.1	143.8	144.6	146.1	148.4	147.6	149.9	151.4	153.7
67.5°	120.4	121.9	121.9	122.6	123.4	124.9	126.4	126.4	128.7	130.2	133.2
70°	101.4	103.0	103.0	103.7	104.5	106.0	107.5	106.7	109.0	110.5	112.8
72.5°	84.0	85.5	85.5	86.3	86.3	87.8	89.3	90.8	90.8	92.4	93.9
75°	68.1	68.9	69.7	69.7	70.4	71.2	72.7	74.2	75.0	75.7	77.2
77.5°	53.8	54.5	55.3	55.3	56.0	56.8	57.5	60.6	62.1	62.8	62.8
80°	40.9	41.6	41.6	41.6	42.4	43.2	44.7	44.7	47.7	47.7	48.5
82.5°	28.8	29.5	29.5	29.5	30.3	31.8	32.6	33.3	34.8	35.6	35.6
85°	17.4	18.2	18.2	18.2	18.9	19.7	21.2	22.0	22.7	22.7	23.5
87.5°	6.8	7.6	8.3	8.3	9.1	9.8	10.6	11.4	12.1	12.1	12.9
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):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1701.9	1707.2	1701.9	1704.9	1708.7	1701.9	1686.0	1679.9	1677.7	1668.6	1662.5
5°	1796.5	1796.5	1794.3	1800.3	1799.6	1789.0	1772.3	1764.7	1757.2	1747.3	1739.8
7.5°	1729.2	1735.2	1739.0	1762.5	1777.6	1779.1	1789.7	1792.0	1795.0	1792.0	1787.4
10°	1632.2	1630.0	1640.6	1662.5	1675.4	1682.2	1702.7	1712.5	1720.8	1737.5	1754.9
12.5°	1577.7	1580.8	1585.3	1601.2	1613.3	1610.3	1618.6	1625.4	1635.3	1651.9	1676.9
15°	1541.4	1544.4	1549.0	1561.1	1568.7	1564.9	1569.4	1574.0	1580.8	1589.1	1604.2
17.5°	1502.0	1507.3	1512.6	1525.5	1532.3	1531.6	1535.3	1536.9	1539.1	1544.4	1555.0
20°	1440.7	1457.4	1468.0	1485.4	1495.2	1493.7	1500.5	1502.8	1505.8	1511.1	1515.7
22.5°	1384.7	1389.2	1394.5	1413.5	1430.1	1450.5	1455.1	1461.1	1468.7	1474.0	1478.6
25°	1352.9	1349.9	1352.1	1365.0	1374.1	1375.6	1382.4	1402.1	1422.5	1431.6	1442.2
27.5°	1334.0	1330.9	1330.2	1336.2	1337.7	1334.0	1332.4	1338.5	1353.6	1368.8	1400.6
30°	1313.5	1309.7	1306.7	1312.0	1314.3	1309.0	1299.1	1293.8	1302.9	1306.7	1319.6
32.5°	1289.3	1285.5	1284.0	1287.0	1288.5	1284.0	1273.4	1267.3	1265.8	1262.8	1265.8
35°	1262.0	1258.3	1256.0	1256.7	1259.8	1256.0	1246.9	1239.3	1235.5	1227.2	1221.2
37.5°	650.3	921.4	1196.2	1224.9	1228.0	1227.2	1218.1	1209.8	1206.0	1196.2	1193.1
40°	297.5	332.4	498.9	651.8	940.3	1194.7	1186.3	1178.0	1171.2	1168.2	1156.8
42.5°	296.8	297.5	298.3	294.5	364.9	621.6	917.6	1145.4	1140.9	1133.3	1125.0
45°	296.8	293.0	296.0	291.5	293.0	292.2	364.2	587.5	1045.5	1092.5	1088.7
47.5°	293.7	291.5	294.5	290.7	286.2	288.4	285.4	289.2	451.2	765.4	1048.5
50°	280.1	281.6	286.9	286.2	282.4	285.4	280.1	284.7	280.9	308.1	593.5
52.5°	259.7	262.7	268.0	272.5	274.1	277.8	276.3	277.8	274.8	275.6	276.3
55°	235.4	239.2	243.8	250.6	253.6	259.7	264.2	266.5	270.3	269.5	263.5
57.5°	212.7	216.5	220.3	227.1	233.9	237.0	245.3	249.8	259.7	257.4	255.9
60°	191.5	194.6	198.4	199.9	208.2	213.5	221.1	225.6	238.5	241.5	246.0
62.5°	172.6	174.1	177.2	179.4	184.7	190.0	193.8	201.4	208.2	218.0	224.9
65°	155.2	156.7	159.0	160.5	161.3	168.8	171.1	179.4	181.7	192.3	198.4
67.5°	135.5	138.5	141.6	143.1	144.6	149.1	150.7	154.4	159.7	164.3	171.9
70°	115.1	117.3	120.4	122.6	125.7	128.7	133.2	135.5	139.3	142.3	148.4
72.5°	96.1	98.4	99.9	102.2	104.5	106.7	110.5	115.8	118.9	124.2	125.7
75°	78.0	80.2	81.8	83.3	85.5	87.1	88.6	93.9	96.9	101.4	106.0
77.5°	64.4	64.4	65.9	70.4	69.7	69.7	71.2	74.2	76.5	79.5	84.0
80°	50.0	50.7	51.5	55.3	56.0	56.8	56.0	58.3	60.6	61.3	64.4
82.5°	37.1	37.9	37.9	40.1	42.4	42.4	42.4	43.2	45.4	46.2	47.7
85°	25.0	25.7	26.5	27.3	28.8	29.5	30.3	30.3	31.8	32.6	33.3
87.5°	13.6	15.1	15.9	16.7	17.4	18.2	18.9	19.7	20.4	21.2	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1660.3	1656.5	1654.2	1648.1	1646.6	1636.8	1638.3	1636.8	1636.8	1639.1	1646.6
5°	1731.4	1713.3	1708.7	1695.8	1685.2	1667.1	1655.7	1649.7	1640.6	1636.8	1642.1
7.5°	1779.9	1766.2	1754.9	1743.5	1728.4	1707.2	1691.3	1673.1	1658.0	1643.6	1639.8
10°	1771.5	1786.7	1786.7	1779.9	1765.5	1744.3	1725.4	1702.7	1676.2	1653.4	1639.8
12.5°	1701.1	1727.6	1748.8	1764.7	1779.1	1764.7	1745.8	1727.6	1698.1	1664.8	1639.8
15°	1623.9	1651.2	1677.7	1711.0	1745.8	1760.2	1759.4	1738.2	1711.7	1676.9	1642.1
17.5°	1569.4	1588.3	1602.7	1639.1	1681.5	1718.6	1743.5	1745.0	1719.3	1688.3	1642.8
20°	1528.5	1542.2	1554.3	1574.7	1611.8	1657.2	1703.4	1729.2	1724.6	1690.5	1645.1
22.5°	1491.4	1501.3	1511.1	1526.3	1555.8	1585.3	1639.1	1692.1	1714.8	1686.8	1642.8
25°	1454.3	1464.9	1472.5	1483.1	1506.6	1530.8	1568.7	1634.5	1685.2	1683.7	1638.3
27.5°	1410.4	1424.8	1433.9	1448.3	1464.2	1482.3	1508.1	1570.2	1642.8	1668.6	1626.2
30°	1357.4	1378.6	1392.3	1408.2	1421.8	1437.7	1458.1	1496.0	1586.1	1639.1	1613.3
32.5°	1281.0	1318.8	1349.1	1364.2	1379.4	1393.0	1411.2	1443.0	1516.4	1598.9	1598.9
35°	1226.5	1243.9	1271.1	1315.0	1334.0	1347.6	1364.2	1389.2	1436.2	1551.2	1575.5
37.5°	1184.1	1190.9	1204.5	1247.7	1283.2	1305.2	1321.8	1337.7	1383.9	1486.1	1545.2
40°	1152.3	1150.0	1148.5	1168.9	1219.6	1254.5	1273.4	1289.3	1324.9	1408.2	1505.1
42.5°	1115.2	1112.9	1105.3	1110.6	1135.6	1193.9	1222.7	1240.1	1269.6	1326.4	1461.1
45°	1076.6	1072.8	1069.7	1064.4	1073.5	1106.1	1165.1	1190.9	1207.5	1258.3	1405.9
47.5°	1037.2	1031.9	1028.1	1023.6	1018.3	1033.4	1089.4	1135.6	1164.4	1196.2	1339.3
50°	981.2	988.0	983.4	978.1	973.6	970.6	994.0	1069.7	1105.3	1131.1	1258.3
52.5°	462.6	899.4	937.3	932.0	925.9	920.6	925.9	983.4	1047.8	1068.2	1160.6
55°	263.5	400.5	833.5	881.2	875.9	868.4	863.8	883.5	979.7	1006.9	1071.3
57.5°	253.6	254.4	367.9	794.2	823.7	816.9	811.6	816.1	897.9	944.1	993.3
60°	245.3	245.3	245.3	351.3	759.3	761.6	754.8	747.2	782.8	873.7	914.5
62.5°	227.1	231.7	233.9	233.9	346.7	703.3	696.5	694.2	695.7	788.9	835.8
65°	203.7	214.3	218.8	221.8	221.8	364.2	636.7	632.9	627.6	663.2	756.3
67.5°	177.9	188.5	198.4	204.4	205.2	212.0	380.0	570.1	562.5	563.3	671.5
70°	151.4	160.5	171.1	180.2	188.5	192.3	198.4	473.2	498.2	487.6	575.4
72.5°	131.0	134.8	142.3	151.4	161.3	170.3	175.6	188.5	432.3	420.9	437.6
75°	109.0	112.0	117.3	123.4	131.0	141.6	150.7	159.7	229.4	352.8	350.5
77.5°	84.8	90.1	96.1	99.9	103.7	111.3	123.4	132.5	141.6	238.5	280.9
80°	65.1	68.9	71.9	75.7	80.2	85.5	90.1	100.7	111.3	119.6	215.0
82.5°	48.5	50.7	53.0	54.5	56.0	59.1	67.4	71.2	78.0	85.5	101.4
85°	34.1	35.6	37.1	37.9	38.6	39.4	42.4	43.2	50.0	51.5	61.3
87.5°	22.0	22.7	24.2	25.0	25.0	25.7	26.5	26.5	26.5	25.0	30.3
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: P1213757

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1651.9	1651.9
2.5°	1652.7	1664.8
5°	1650.4	1666.3
7.5°	1644.4	1659.5
10°	1635.3	1653.4
12.5°	1625.4	1642.8
15°	1617.1	1630.0
17.5°	1608.0	1615.6
20°	1595.9	1602.0
22.5°	1583.8	1580.8
25°	1570.2	1563.4
27.5°	1552.8	1539.9
30°	1536.9	1514.1
32.5°	1521.7	1484.6
35°	1501.3	1454.3
37.5°	1480.1	1423.3
40°	1455.1	1387.7
42.5°	1428.6	1352.1
45°	1395.3	1318.1
47.5°	1365.8	1277.2
50°	1324.9	1233.3
52.5°	1274.9	1192.4
55°	1215.9	1142.4
57.5°	1152.3	1090.2
60°	1084.1	1030.4
62.5°	1001.6	968.3
65°	904.7	897.1
67.5°	778.3	818.4
70°	638.2	728.3
72.5°	533.7	632.9
75°	437.6	526.2
77.5°	346.7	412.6
80°	216.5	302.1
82.5°	145.4	198.4
85°	87.8	94.6
87.5°	34.1	34.8
90°	0.0	0.0

(END OF REPORT)