

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: P1213064

Luminaire Tested: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213064
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-LD5-39SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

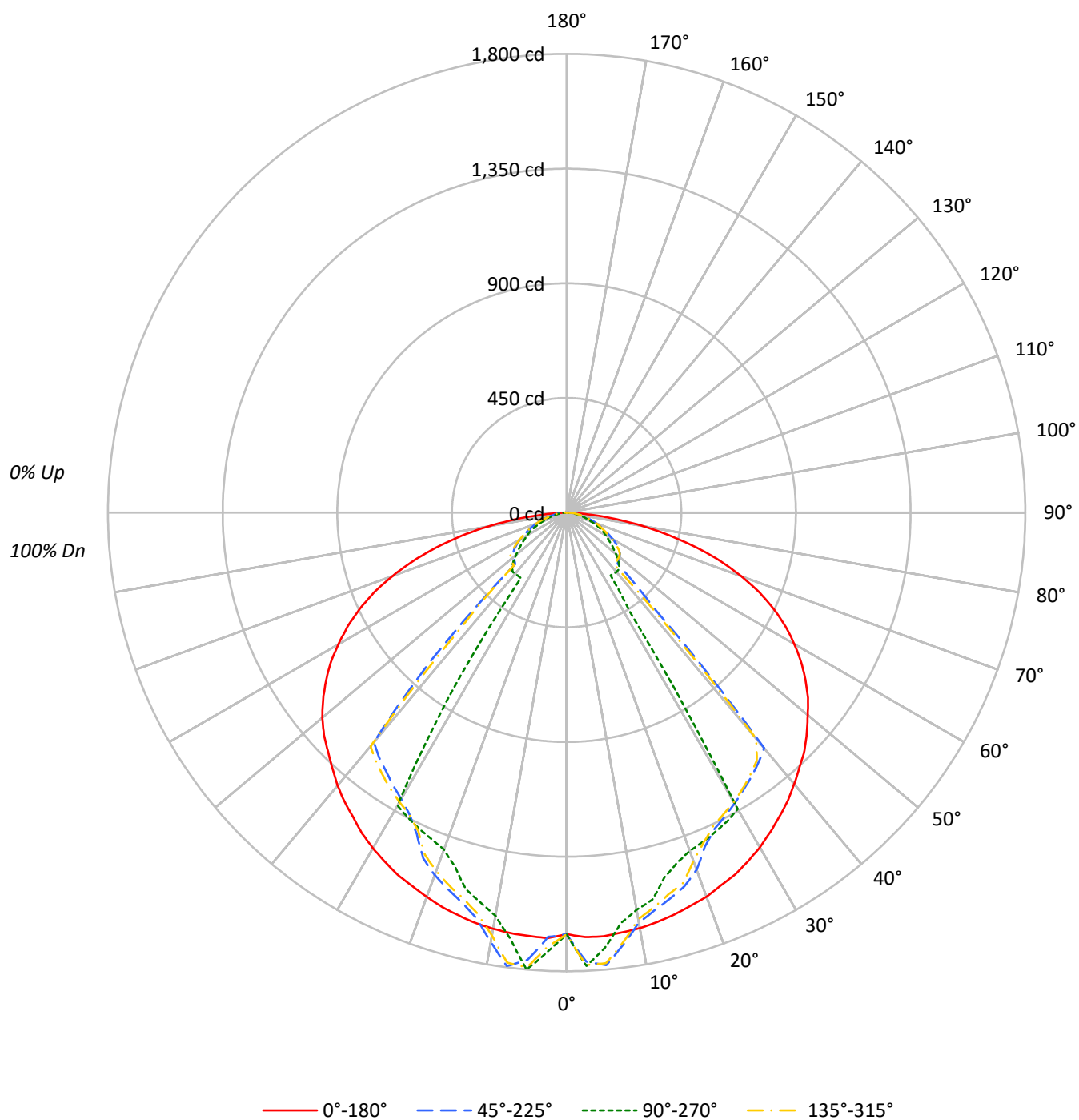
Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13369	13369	13369	13369
5°	13500	13470	13495	14137
10°	13513	12179	13532	12366
15°	13543	11268	13575	11625
20°	13642	10688	13642	10647
25°	13760	10483	13780	10385
30°	13899	10298	13934	10176
35°	14061	2346	14091	2446
40°	14286	2439	14373	2518
45°	14629	2425	14679	2514
50°	14970	2193	15172	2252
55°	15430	1947	15553	1975
60°	15821	1731	15857	1752
65°	16101	1510	16060	1486
70°	15871	1217	15821	1172
75°	14736	936	14842	897
80°	11958	665	12440	608
85°	6476	398	6839	305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 16212 cd/sqm

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	4.9
10°-20°	447.6	13.5
20°-30°	662.9	20.0
30°-40°	667.9	20.2
40°-50°	521.8	15.7
50°-60°	403.0	12.2
60°-70°	270.6	8.2
70°-80°	138.0	4.2
80°-90°	38.4	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°	1273.2	38.4
0°-40°	1941.2	58.6
0°-60°	2866.0	86.5
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1654	1654	1654	1654	1654	
5°	1669	1715	1668	1800	1669	159
15°	1632	1482	1636	1529	1632	462
25°	1566	1382	1568	1369	1566	722
35°	1456	300	1460	313	1456	913
45°	1320	292	1325	302	1320	1018
55°	1144	212	1153	215	1144	1022
65°	898	142	896	140	898	884
75°	527	72	531	69	527	551
85°	95	23	100	17	95	130
90°	0	0	0	0	0	

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1667.3	1673.4	1677.9	1681.0	1682.5	1682.5	1683.2	1684.0	1693.9	1698.4	1701.4
5°	1668.8	1674.9	1684.0	1696.1	1706.7	1715.8	1723.4	1734.0	1744.7	1756.0	1759.8
7.5°	1662.0	1669.6	1687.8	1709.8	1730.2	1744.7	1754.5	1761.3	1766.6	1767.4	1771.2
10°	1655.9	1669.6	1694.6	1723.4	1749.2	1766.6	1766.6	1762.9	1768.2	1747.7	1727.2
12.5°	1645.3	1660.5	1694.6	1732.5	1756.8	1763.6	1760.6	1745.4	1714.3	1689.3	1677.9
15°	1632.4	1652.9	1695.4	1737.8	1758.3	1760.6	1731.8	1693.1	1669.6	1654.4	1635.5
17.5°	1618.0	1645.3	1696.1	1738.6	1746.2	1735.6	1681.0	1656.7	1632.4	1596.8	1571.0
20°	1604.4	1630.9	1690.1	1728.0	1732.5	1684.8	1642.3	1616.5	1575.6	1544.5	1533.1
22.5°	1583.2	1614.2	1684.8	1713.6	1696.1	1640.8	1599.8	1558.9	1521.7	1512.6	1499.0
25°	1565.7	1598.3	1672.6	1696.1	1649.9	1600.6	1552.8	1505.1	1487.6	1474.7	1462.6
27.5°	1542.2	1582.4	1656.7	1664.3	1600.6	1557.4	1487.6	1466.4	1450.5	1436.1	1430.8
30°	1516.4	1565.7	1634.7	1620.3	1559.6	1496.0	1444.4	1424.7	1413.3	1398.2	1392.1
32.5°	1486.9	1540.7	1610.5	1569.5	1515.7	1436.1	1402.7	1387.5	1372.4	1361.0	1323.1
35°	1456.5	1518.7	1581.6	1521.0	1462.6	1390.6	1361.0	1347.3	1332.9	1291.2	1251.8
37.5°	1425.4	1494.4	1546.8	1468.7	1392.1	1343.6	1318.5	1303.4	1270.8	1217.7	1198.0
40°	1389.8	1464.9	1502.0	1414.8	1330.7	1295.8	1272.3	1257.1	1183.6	1160.1	1154.0
42.5°	1354.2	1436.1	1447.4	1362.5	1279.9	1245.0	1225.3	1175.2	1125.2	1113.1	1115.3
45°	1320.1	1405.0	1387.5	1288.2	1226.8	1198.0	1164.6	1095.6	1069.1	1075.2	1076.7
47.5°	1279.1	1367.8	1324.6	1213.9	1172.2	1143.4	1069.1	1027.4	1023.6	1031.9	1036.5
50°	1235.1	1326.1	1257.9	1146.4	1113.1	1078.9	994.8	973.5	978.1	986.4	991.7
52.5°	1194.2	1279.1	1188.9	1083.5	1054.7	976.6	919.7	923.5	931.1	940.9	944.0
55°	1144.1	1222.2	1115.3	1019.8	992.5	890.1	864.4	873.5	881.0	889.4	895.5
57.5°	1091.8	1157.0	1028.1	948.5	904.6	813.6	815.8	821.9	827.2	837.1	345.7
60°	1031.9	1082.7	932.6	882.6	795.4	752.9	755.2	765.8	771.1	430.7	238.1
62.5°	969.8	996.3	846.2	807.5	695.3	692.3	702.9	707.4	481.5	227.5	222.9
65°	898.5	893.2	761.2	699.8	627.0	630.1	641.5	618.7	213.1	213.1	211.5
67.5°	819.6	787.8	678.6	579.3	561.1	567.9	580.0	202.4	197.1	198.7	193.3
70°	729.4	684.7	592.9	490.6	496.6	503.5	195.6	183.5	181.2	177.4	166.8
72.5°	633.9	572.5	485.3	426.1	429.9	269.9	171.4	165.3	157.7	150.1	138.8
75°	527.0	447.3	356.4	356.4	361.7	153.9	149.4	139.5	131.2	121.3	114.5
77.5°	413.2	344.2	276.7	287.4	140.3	128.9	120.6	109.9	103.1	97.1	93.3
80°	302.5	240.4	208.5	186.5	109.2	97.8	89.5	83.4	80.4	76.6	72.0
82.5°	198.7	144.8	144.8	88.0	76.6	67.5	65.2	60.7	57.6	55.3	53.1
85°	94.8	84.2	63.7	53.8	47.8	43.2	41.7	39.4	39.4	38.7	37.9
87.5°	34.9	37.9	28.1	27.3	25.8	25.0	25.8	25.8	26.5	25.8	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

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1709.0	1715.1	1719.6	1727.2	1737.1	1745.4	1753.0	1763.6	1780.3	1784.8	1788.6
5°	1759.8	1762.1	1767.4	1773.5	1775.0	1778.8	1778.0	1782.6	1784.8	1790.1	1778.8
7.5°	1762.9	1750.7	1736.3	1723.4	1714.3	1706.0	1700.7	1709.0	1713.6	1717.4	1706.0
10°	1699.2	1684.8	1676.4	1668.8	1659.7	1646.8	1629.4	1633.2	1631.7	1631.7	1627.9
12.5°	1659.0	1638.5	1617.3	1598.3	1590.0	1589.2	1590.0	1598.3	1598.3	1597.6	1593.0
15°	1596.0	1576.3	1565.7	1561.2	1561.2	1558.9	1558.9	1568.0	1565.7	1565.7	1563.4
17.5°	1554.3	1540.7	1533.1	1527.8	1525.5	1529.3	1533.9	1537.7	1538.4	1535.4	1523.3
20°	1520.2	1507.3	1498.2	1499.8	1499.0	1501.3	1503.5	1490.7	1474.7	1453.5	1443.6
22.5°	1484.6	1474.7	1467.9	1467.9	1458.8	1444.4	1423.2	1418.6	1416.3	1406.5	1398.2
25°	1450.5	1439.1	1429.2	1398.9	1380.0	1382.2	1378.4	1370.9	1370.1	1369.3	1372.4
27.5°	1416.3	1386.8	1348.9	1344.3	1336.7	1336.0	1340.5	1344.3	1344.3	1347.3	1351.1
30°	1345.8	1311.7	1304.9	1296.5	1299.6	1310.2	1312.5	1317.8	1319.3	1324.6	1327.6
32.5°	1281.4	1266.2	1260.2	1263.9	1273.8	1282.9	1288.2	1290.5	1294.3	1298.8	1302.6
35°	1229.1	1224.5	1229.8	1238.2	1248.0	1255.6	1260.2	1264.7	1268.5	1272.3	1275.3
37.5°	1190.4	1193.4	1201.0	1211.6	1221.5	1227.6	1231.3	1236.7	1242.0	1246.5	1228.3
40°	1154.0	1161.6	1169.9	1181.3	1189.6	1195.7	1199.5	1206.3	1160.8	525.4	288.1
42.5°	1122.2	1130.5	1136.6	1145.7	1154.8	1159.3	1126.0	502.7	284.3	282.8	286.6
45°	1083.5	1090.3	1100.2	1107.0	1115.3	732.4	279.8	282.8	278.3	281.3	282.8
47.5°	1044.1	1054.7	1060.0	1011.5	301.0	278.3	275.2	278.3	275.2	279.0	276.7
50°	999.3	1012.2	720.3	272.2	269.9	268.4	271.4	269.9	272.2	275.2	269.2
52.5°	953.8	590.7	263.9	262.3	263.9	262.3	267.7	263.9	264.6	261.6	254.0
55°	323.0	255.5	253.2	252.5	257.0	257.0	257.0	251.0	247.2	239.6	234.3
57.5°	247.2	247.2	246.4	247.2	245.7	244.1	237.3	232.0	226.7	216.1	213.1
60°	234.3	234.3	234.3	234.3	227.5	224.4	213.8	209.3	200.2	194.9	191.8
62.5°	223.7	222.2	215.3	213.1	205.5	197.1	191.1	186.5	177.4	174.4	172.1
65°	208.5	203.2	194.9	185.8	182.0	172.9	169.8	163.0	158.5	156.2	154.7
67.5°	183.5	175.9	169.1	163.0	156.2	153.2	149.4	144.1	141.0	139.5	138.0
70°	157.0	151.6	144.8	141.0	136.5	134.2	128.9	127.4	125.1	122.8	120.6
72.5°	131.2	128.1	125.1	119.8	118.3	116.8	111.5	108.4	105.4	102.4	100.8
75°	109.9	107.7	106.2	101.6	99.3	94.8	91.0	88.7	86.4	84.2	82.6
77.5°	90.2	88.7	84.2	81.1	79.6	75.8	74.3	75.1	73.5	70.5	69.0
80°	70.5	69.0	65.2	65.2	63.7	62.2	60.7	59.1	57.6	55.3	53.8
82.5°	53.8	52.3	50.8	49.3	47.8	47.0	46.3	44.7	43.2	41.7	40.9
85°	37.9	37.2	36.4	35.6	34.9	34.1	33.4	31.8	30.3	29.6	28.8
87.5°	25.8	25.0	24.3	23.5	22.7	22.0	21.2	20.5	19.0	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

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1788.6	1792.4	1788.6	1780.3	1775.0	1772.7	1777.3	1777.3	1780.3	1784.1	1784.8
5°	1760.6	1751.5	1740.9	1730.2	1724.9	1721.9	1713.6	1715.1	1717.4	1718.9	1720.4
7.5°	1690.8	1678.7	1664.3	1650.6	1645.3	1640.8	1630.9	1630.9	1630.9	1631.7	1636.2
10°	1619.5	1614.2	1608.2	1599.1	1592.3	1590.0	1581.6	1583.9	1582.4	1584.7	1590.0
12.5°	1586.2	1580.1	1574.8	1565.7	1558.1	1555.1	1551.3	1553.6	1552.8	1556.6	1561.2
15°	1555.9	1552.8	1546.8	1539.9	1533.1	1527.0	1513.4	1508.8	1505.8	1502.0	1507.3
17.5°	1505.8	1484.6	1470.2	1459.6	1452.0	1446.7	1442.9	1442.9	1445.2	1447.4	1452.0
20°	1437.6	1431.5	1424.7	1413.3	1405.7	1402.7	1400.4	1400.4	1404.2	1407.2	1415.6
22.5°	1390.6	1389.8	1387.5	1382.2	1378.4	1378.4	1379.2	1380.7	1386.0	1390.6	1398.9
25°	1368.6	1371.6	1370.1	1367.1	1364.8	1365.5	1364.0	1365.5	1370.9	1375.4	1382.2
27.5°	1351.1	1355.7	1354.2	1349.6	1345.8	1347.3	1349.6	1348.1	1352.7	1358.0	1363.3
30°	1327.6	1328.4	1331.4	1326.1	1324.6	1326.9	1327.6	1329.2	1333.7	1337.5	1342.0
32.5°	1301.1	1307.2	1306.4	1301.1	1301.1	1303.4	1304.1	1253.3	1158.6	997.8	953.8
35°	1275.3	1282.1	1270.8	1071.4	741.5	395.8	305.6	294.9	297.2	298.7	300.3
37.5°	943.2	447.3	285.1	287.4	289.6	291.9	294.2	296.5	298.7	301.0	301.8
40°	283.6	282.8	285.1	288.1	290.4	291.9	294.9	297.2	299.5	301.8	302.5
42.5°	280.5	282.1	284.3	287.4	290.4	293.4	295.7	298.7	300.3	301.8	302.5
45°	279.0	282.1	285.1	287.4	289.6	291.2	292.7	293.4	292.7	292.7	294.2
47.5°	276.7	279.8	280.5	279.8	280.5	279.8	279.8	279.8	277.5	276.7	276.7
50°	268.4	268.4	266.9	263.9	263.1	262.3	260.8	260.1	257.0	256.3	256.3
52.5°	251.0	250.2	247.9	244.1	242.6	241.1	240.4	239.6	236.6	235.0	235.8
55°	230.5	229.0	226.7	222.2	221.4	219.9	219.1	218.4	215.3	216.8	214.6
57.5°	211.5	208.5	205.5	204.7	201.7	200.9	200.2	199.4	197.1	197.9	196.4
60°	188.8	188.0	186.5	183.5	183.5	182.7	182.7	181.2	179.7	178.9	178.9
62.5°	172.1	169.8	168.3	168.3	166.0	166.0	166.0	164.5	163.0	163.8	163.0
65°	153.9	153.2	152.4	150.9	150.9	150.1	150.1	148.6	146.3	147.1	145.6
67.5°	138.8	137.2	135.7	135.0	131.9	130.4	129.7	128.9	125.9	126.6	125.1
70°	119.8	117.5	116.0	114.5	112.2	110.7	110.7	109.2	106.9	107.7	106.2
72.5°	100.1	98.6	97.1	96.3	94.0	93.3	92.5	91.7	89.5	90.2	89.5
75°	83.4	83.4	82.6	81.9	79.6	77.3	75.8	75.1	73.5	74.3	72.8
77.5°	69.0	67.5	66.0	66.0	63.7	62.2	60.7	60.7	60.7	59.9	59.1
80°	53.8	52.3	52.3	51.6	50.0	48.5	47.8	47.8	47.0	47.0	46.3
82.5°	40.9	39.4	38.7	38.7	37.2	36.4	35.6	34.9	34.9	34.9	34.1
85°	28.8	27.3	26.5	26.5	25.0	24.3	24.3	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1784.8	1784.8	1779.5	1781.0	1778.8	1781.8	1778.0	1778.0	1782.6	1782.6	1785.6
5°	1721.1	1717.4	1716.6	1715.1	1707.5	1710.5	1706.7	1703.0	1708.3	1708.3	1715.1
7.5°	1634.0	1627.1	1630.2	1625.6	1621.1	1614.2	1616.5	1613.5	1617.3	1622.6	1629.4
10°	1589.2	1583.2	1586.9	1582.4	1584.7	1574.8	1575.6	1576.3	1580.1	1581.6	1587.7
12.5°	1560.4	1558.9	1557.4	1555.9	1557.4	1552.1	1549.0	1549.8	1551.3	1552.1	1556.6
15°	1499.8	1489.9	1492.9	1482.3	1483.1	1483.8	1477.8	1483.8	1483.1	1492.9	1502.0
17.5°	1450.5	1450.5	1445.2	1440.6	1437.6	1436.8	1432.3	1435.3	1432.3	1438.3	1440.6
20°	1416.3	1415.6	1414.8	1412.6	1405.0	1405.7	1408.0	1401.2	1400.4	1399.7	1404.2
22.5°	1400.4	1401.2	1398.2	1398.2	1391.3	1392.8	1393.6	1386.0	1386.8	1384.5	1386.8
25°	1383.7	1385.3	1381.5	1381.5	1380.0	1379.2	1375.4	1376.9	1372.4	1368.6	1372.4
27.5°	1364.0	1367.1	1364.0	1365.5	1362.5	1361.0	1358.7	1357.2	1352.7	1351.9	1354.2
30°	1345.8	1347.3	1346.6	1342.8	1342.0	1337.5	1339.8	1335.2	1330.7	1331.4	1332.9
32.5°	690.0	658.9	508.0	458.7	454.2	470.9	558.0	679.4	880.3	1075.2	1215.4
35°	301.0	301.0	301.0	300.3	300.3	299.5	298.7	298.0	297.2	296.5	295.7
37.5°	302.5	302.5	302.5	302.5	301.8	301.0	301.0	299.5	298.7	298.0	297.2
40°	303.3	304.0	304.0	304.0	303.3	303.3	302.5	301.0	300.3	298.7	297.2
42.5°	302.5	303.3	303.3	302.5	302.5	301.8	301.8	301.0	300.3	299.5	298.7
45°	292.7	293.4	291.9	291.9	291.2	291.2	291.2	291.2	291.2	291.9	291.9
47.5°	275.2	275.2	274.5	273.7	273.7	273.0	273.7	273.0	274.5	275.2	276.7
50°	254.8	254.8	253.2	252.5	252.5	252.5	252.5	253.2	254.0	255.5	257.0
52.5°	233.5	233.5	232.8	232.0	231.3	231.3	233.5	232.8	233.5	234.3	236.6
55°	213.1	213.8	212.3	212.3	211.5	211.5	211.5	212.3	213.1	213.8	216.1
57.5°	195.6	195.6	194.1	194.1	194.1	193.3	195.6	194.1	194.9	195.6	197.1
60°	178.2	177.4	177.4	176.7	176.7	176.7	178.2	177.4	177.4	178.2	179.7
62.5°	162.3	162.3	161.5	161.5	160.7	160.7	162.3	161.5	161.5	162.3	163.0
65°	144.1	144.1	143.3	142.5	144.8	142.5	144.8	143.3	144.8	145.6	147.1
67.5°	123.6	123.6	123.6	122.8	122.8	124.3	125.1	123.6	124.3	125.9	126.6
70°	105.4	105.4	104.6	104.6	104.6	106.2	106.9	105.4	106.2	106.9	108.4
72.5°	89.5	88.0	88.0	87.2	88.7	88.7	89.5	88.7	89.5	89.5	91.0
75°	73.5	72.0	72.0	72.0	73.5	72.8	73.5	72.8	73.5	73.5	74.3
77.5°	59.1	58.4	57.6	57.6	59.1	59.1	59.1	58.4	59.1	59.9	60.7
80°	46.3	45.5	44.7	44.7	46.3	46.3	46.3	47.0	46.3	47.0	47.8
82.5°	34.1	33.4	32.6	34.1	34.1	34.1	34.1	34.9	34.1	34.9	35.6
85°	22.7	22.0	21.2	22.7	22.7	22.7	22.7	23.5	22.7	23.5	24.3
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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1790.1	1792.4	1791.7	1787.1	1782.6	1777.3	1773.5	1774.2	1781.8	1784.1	1777.3
5°	1715.1	1729.5	1729.5	1739.3	1734.0	1729.5	1732.5	1749.2	1757.5	1770.4	1775.0
7.5°	1637.7	1644.6	1643.8	1653.7	1652.2	1652.2	1654.4	1676.4	1687.0	1697.6	1700.7
10°	1594.5	1601.4	1600.6	1601.4	1599.1	1593.8	1593.8	1603.6	1612.7	1618.0	1619.5
12.5°	1563.4	1567.2	1566.5	1566.5	1565.0	1560.4	1559.6	1568.0	1577.8	1584.7	1585.4
15°	1517.2	1527.8	1530.1	1539.9	1537.7	1531.6	1533.1	1539.9	1546.0	1552.1	1549.8
17.5°	1448.2	1453.5	1454.3	1458.0	1456.5	1456.5	1465.6	1490.7	1507.3	1521.7	1523.3
20°	1408.8	1412.6	1411.0	1419.4	1415.6	1414.8	1417.1	1427.7	1435.3	1442.1	1454.3
22.5°	1389.8	1392.8	1390.6	1391.3	1384.5	1378.4	1376.9	1385.3	1393.6	1402.7	1402.7
25°	1373.9	1376.2	1375.4	1373.9	1368.6	1360.2	1358.7	1360.2	1363.3	1364.0	1358.7
27.5°	1354.9	1356.4	1356.4	1357.2	1350.4	1342.8	1341.3	1339.8	1342.8	1342.0	1333.7
30°	1335.2	1332.9	1333.7	1334.5	1328.4	1321.6	1318.5	1317.8	1320.8	1320.1	1311.7
32.5°	1288.2	1305.6	1307.2	1308.7	1303.4	1297.3	1294.3	1292.0	1293.5	1292.8	1285.2
35°	294.9	300.3	367.7	832.5	1130.5	1251.8	1264.7	1261.7	1262.4	1262.4	1256.4
37.5°	295.7	294.9	294.2	291.9	289.6	288.1	498.1	1062.3	1230.6	1231.3	1226.0
40°	295.7	294.9	294.2	292.7	289.6	287.4	283.6	280.5	287.4	632.4	1157.0
42.5°	297.2	295.7	294.2	292.7	289.6	286.6	283.6	279.8	282.1	280.5	276.7
45°	292.7	291.9	291.9	291.2	289.6	286.6	282.8	278.3	276.0	278.3	274.5
47.5°	278.3	279.0	281.3	282.1	282.1	282.8	280.5	277.5	273.7	276.0	271.4
50°	258.6	260.1	260.8	264.6	266.1	269.2	269.9	269.9	269.2	272.2	269.2
52.5°	237.3	238.8	242.6	244.1	245.7	250.2	251.7	254.0	255.5	260.1	263.1
55°	216.8	217.6	219.1	222.2	224.4	228.2	230.5	232.8	236.6	238.8	247.9
57.5°	197.9	198.7	201.7	202.4	204.0	207.0	209.3	212.3	215.3	216.8	227.5
60°	179.7	180.5	182.7	183.5	184.2	187.3	189.6	191.8	194.1	195.6	203.2
62.5°	163.8	163.8	166.0	166.0	166.8	169.1	170.6	172.1	174.4	175.1	178.9
65°	147.9	148.6	150.1	150.1	150.9	152.4	153.2	153.9	156.2	156.2	159.2
67.5°	128.1	128.9	131.2	132.7	133.4	136.5	137.2	138.0	139.5	140.3	141.8
70°	109.2	109.9	112.2	113.0	113.7	116.0	117.5	119.8	122.1	124.3	125.9
72.5°	91.7	92.5	94.8	94.8	97.1	97.8	99.3	100.1	102.4	103.9	106.2
75°	75.1	75.8	78.1	78.1	80.4	81.1	81.9	82.6	84.2	85.7	87.2
77.5°	61.4	61.4	64.4	66.0	67.5	67.5	68.2	68.2	68.2	69.0	70.5
80°	48.5	48.5	50.8	52.3	53.8	53.8	54.6	55.3	56.1	56.1	56.9
82.5°	36.4	36.4	38.7	39.4	40.9	40.9	40.9	41.7	42.5	41.7	43.2
85°	25.0	25.0	26.5	27.3	28.8	28.8	28.8	29.6	30.3	29.6	30.3
87.5°	14.4	15.2	15.9	16.7	17.4	18.2	18.2	18.2	19.0	19.0	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1769.7	1760.6	1759.8	1749.2	1746.2	1746.9	1738.6	1735.6	1721.9	1718.9	1704.5
5°	1776.5	1781.0	1778.8	1778.0	1780.3	1778.8	1772.7	1769.7	1767.4	1761.3	1749.2
7.5°	1701.4	1704.5	1706.7	1716.6	1724.9	1739.3	1754.5	1764.4	1772.0	1773.5	1763.6
10°	1624.9	1639.3	1649.1	1664.3	1676.4	1684.8	1693.9	1702.2	1724.2	1746.2	1759.1
12.5°	1585.4	1589.2	1588.5	1596.8	1605.1	1627.1	1648.4	1660.5	1677.2	1687.0	1710.5
15°	1552.1	1552.8	1555.1	1561.2	1565.7	1573.3	1583.2	1601.4	1634.7	1649.9	1662.8
17.5°	1521.7	1521.7	1523.3	1528.6	1534.6	1541.5	1547.5	1555.1	1571.8	1596.8	1628.6
20°	1473.2	1494.4	1496.7	1496.0	1499.0	1511.9	1513.4	1527.0	1535.4	1545.2	1576.3
22.5°	1401.2	1414.1	1432.3	1460.3	1470.9	1477.0	1481.6	1487.6	1500.5	1511.9	1524.8
25°	1361.8	1370.1	1375.4	1383.7	1405.7	1441.4	1448.2	1455.0	1463.4	1471.7	1487.6
27.5°	1326.9	1326.1	1329.9	1337.5	1343.6	1362.5	1395.9	1422.4	1423.9	1436.1	1449.7
30°	1301.9	1297.3	1292.0	1290.5	1298.8	1308.7	1318.5	1360.2	1389.1	1395.1	1409.5
32.5°	1278.4	1270.8	1263.2	1257.1	1251.8	1260.2	1266.2	1284.4	1321.6	1356.4	1364.0
35°	1249.5	1242.0	1232.9	1226.0	1217.7	1216.9	1216.2	1233.6	1245.7	1287.5	1323.8
37.5°	1220.0	1211.6	1204.0	1196.5	1188.1	1182.1	1178.3	1182.8	1194.2	1212.4	1273.0
40°	1188.9	1179.0	1171.4	1165.4	1154.0	1149.5	1141.9	1138.8	1139.6	1155.5	1187.4
42.5°	710.4	1132.8	1136.6	1129.7	1119.9	1113.8	1105.5	1101.7	1094.1	1101.7	1119.9
45°	273.7	276.7	828.7	1094.9	1082.7	1075.2	1067.6	1063.8	1055.4	1049.4	1066.1
47.5°	268.4	271.4	265.4	376.1	1033.4	1035.7	1026.6	1022.8	1014.5	1009.9	1005.4
50°	264.6	266.9	262.3	263.9	258.6	947.0	984.9	980.4	971.3	966.0	956.9
52.5°	260.8	260.8	257.8	254.0	252.5	253.2	796.9	937.2	926.5	921.2	909.1
55°	248.7	250.2	253.2	247.2	245.7	244.9	242.6	759.0	877.3	871.2	860.6
57.5°	230.5	233.5	241.9	240.4	240.4	234.3	232.8	232.8	704.4	820.4	809.8
60°	209.3	212.3	221.4	224.4	226.7	225.2	223.7	222.9	219.9	742.3	755.9
62.5°	187.3	190.3	193.3	203.2	206.2	210.0	214.6	212.3	209.3	209.3	699.1
65°	163.8	168.3	169.8	178.9	182.7	189.6	193.3	198.7	197.1	196.4	200.2
67.5°	143.3	148.6	149.4	153.2	160.0	163.0	167.6	177.4	182.0	183.5	185.0
70°	125.9	128.9	131.2	132.7	137.2	138.0	146.3	153.2	160.0	167.6	169.8
72.5°	108.4	110.7	115.2	113.7	115.2	118.3	122.8	127.4	134.2	144.8	151.6
75°	88.7	90.2	93.3	94.8	97.8	100.1	103.1	106.9	113.0	118.3	127.4
77.5°	71.3	72.0	74.3	75.1	78.1	80.4	85.7	88.0	91.7	95.5	100.8
80°	57.6	57.6	58.4	58.4	60.7	62.9	66.7	69.0	73.5	76.6	76.6
82.5°	44.0	44.0	46.3	46.3	47.8	47.8	50.0	50.0	52.3	53.8	55.3
85°	31.1	31.8	33.4	32.6	34.1	33.4	34.9	36.4	37.2	36.4	35.6
87.5°	20.5	20.5	22.0	21.2	22.0	22.0	23.5	23.5	24.3	24.3	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1699.2	1687.8	1681.0	1672.6	1670.3	1668.1	1671.1	1671.1	1666.6	1662.8	1655.9
5°	1738.6	1726.5	1713.6	1699.9	1687.0	1673.4	1668.1	1667.3	1659.0	1654.4	1652.2
7.5°	1759.1	1753.0	1738.6	1719.6	1699.9	1675.7	1665.0	1659.0	1650.6	1649.1	1649.1
10°	1761.3	1754.5	1746.9	1733.3	1710.5	1678.7	1658.2	1646.1	1638.5	1643.8	1653.7
12.5°	1739.3	1752.2	1745.4	1736.3	1718.1	1679.4	1649.9	1631.7	1629.4	1643.1	1668.8
15°	1683.2	1721.1	1740.1	1731.0	1716.6	1677.9	1636.2	1615.0	1615.0	1643.1	1676.4
17.5°	1640.8	1670.3	1716.6	1724.2	1707.5	1674.9	1623.3	1598.3	1605.1	1646.1	1681.7
20°	1605.9	1624.1	1668.8	1711.3	1695.4	1668.1	1604.4	1578.6	1592.3	1641.5	1689.3
22.5°	1551.3	1587.7	1615.0	1677.9	1683.2	1655.2	1585.4	1554.3	1581.6	1641.5	1685.5
25°	1498.2	1542.2	1571.0	1632.4	1665.0	1639.3	1568.0	1528.6	1570.3	1639.3	1682.5
27.5°	1461.1	1481.6	1533.9	1577.8	1637.7	1618.0	1544.5	1500.5	1555.9	1627.1	1665.0
30°	1421.7	1435.3	1486.9	1528.6	1601.4	1593.8	1520.2	1469.4	1537.7	1615.8	1619.5
32.5°	1378.4	1393.6	1420.1	1480.8	1550.6	1571.0	1492.9	1438.3	1517.9	1598.3	1566.5
35°	1334.5	1345.8	1367.1	1432.3	1491.4	1536.9	1459.6	1402.7	1504.3	1571.8	1515.7
37.5°	1290.5	1302.6	1320.8	1375.4	1429.2	1505.1	1430.8	1367.1	1479.3	1524.8	1462.6
40°	1248.8	1255.6	1274.6	1308.7	1377.7	1472.5	1398.2	1329.9	1453.5	1464.9	1390.6
42.5°	1172.2	1206.3	1223.8	1251.1	1319.3	1427.7	1360.2	1290.5	1424.7	1405.0	1318.5
45°	1089.6	1163.9	1171.4	1198.7	1267.7	1380.0	1324.6	1251.8	1397.4	1353.4	1250.3
47.5°	1022.1	1075.9	1119.9	1142.6	1206.3	1323.8	1291.2	1219.2	1356.4	1288.2	1183.6
50°	962.2	991.0	1070.6	1087.3	1132.8	1256.4	1251.8	1181.3	1299.6	1206.3	1118.4
52.5°	903.8	924.3	996.3	1031.9	1069.1	1183.6	1204.8	1144.1	1237.4	1124.4	1052.4
55°	853.0	859.8	899.2	974.3	1007.7	1110.0	1153.2	1100.9	1158.6	1046.3	988.7
57.5°	800.7	794.6	823.4	919.7	944.0	1035.0	1098.7	1057.0	1094.9	966.7	922.7
60°	746.1	737.7	749.9	813.6	876.5	960.7	1034.2	1008.4	1017.5	887.9	849.2
62.5°	689.2	680.9	677.1	717.3	810.5	884.1	969.0	954.6	922.7	815.8	758.2
65°	630.1	621.7	615.7	631.6	737.7	784.8	896.2	892.4	818.9	740.0	638.4
67.5°	191.8	565.6	552.7	552.0	621.7	694.5	817.4	811.3	714.2	658.9	549.7
70°	172.9	458.7	487.5	480.7	511.0	602.8	727.1	722.6	612.6	528.5	486.0
72.5°	158.5	162.3	430.7	423.1	429.9	512.6	633.1	621.0	519.4	417.0	420.1
75°	135.7	142.5	148.6	357.1	348.0	424.6	530.8	511.8	428.4	344.2	351.1
77.5°	110.7	119.0	123.6	260.1	281.3	302.5	423.8	398.8	294.9	275.2	131.2
80°	82.6	89.5	97.1	103.9	213.8	211.5	314.7	289.6	205.5	171.4	102.4
82.5°	60.7	62.9	67.5	75.1	84.9	141.8	202.4	178.2	142.5	78.1	70.5
85°	37.9	40.9	43.2	45.5	51.6	84.9	100.1	79.6	59.9	47.8	44.7
87.5°	24.3	24.3	23.5	24.3	25.0	30.3	34.1	32.6	25.8	24.3	24.3
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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1648.4	1637.7	1637.7	1634.7	1637.0	1637.0	1636.2	1637.0	1642.3	1645.3	1650.6
5°	1647.6	1644.6	1651.4	1659.7	1669.6	1681.7	1684.8	1695.4	1705.2	1718.1	1731.8
7.5°	1657.5	1668.1	1681.0	1694.6	1714.3	1728.7	1741.6	1754.5	1763.6	1775.7	1783.3
10°	1671.9	1693.1	1715.1	1732.5	1753.8	1765.9	1774.2	1775.7	1762.9	1742.4	1725.7
12.5°	1692.3	1717.4	1737.8	1754.5	1764.4	1759.8	1735.6	1710.5	1696.1	1674.9	1645.3
15°	1709.8	1732.5	1753.8	1746.9	1720.4	1695.4	1676.4	1646.8	1618.0	1598.3	1585.4
17.5°	1717.4	1739.3	1731.8	1696.1	1671.1	1642.3	1603.6	1580.9	1561.9	1546.8	1539.2
20°	1721.9	1718.1	1677.2	1651.4	1602.9	1576.3	1551.3	1530.1	1515.7	1508.1	1506.6
22.5°	1709.8	1663.5	1628.6	1582.4	1546.8	1524.8	1505.1	1487.6	1477.8	1471.7	1467.9
25°	1669.6	1615.8	1564.2	1527.8	1497.5	1478.5	1463.4	1449.0	1436.8	1433.8	1426.2
27.5°	1613.5	1569.5	1501.3	1473.2	1446.7	1437.6	1420.9	1406.5	1395.9	1386.8	1362.5
30°	1567.2	1497.5	1448.2	1422.4	1406.5	1395.9	1376.9	1361.8	1343.6	1310.2	1296.5
32.5°	1510.4	1441.4	1394.4	1380.0	1360.2	1351.1	1329.9	1296.5	1268.5	1254.8	1254.1
35°	1436.8	1380.0	1345.8	1332.9	1317.0	1301.9	1257.9	1227.6	1213.9	1215.4	1226.8
37.5°	1375.4	1324.6	1302.6	1284.4	1266.2	1227.6	1190.4	1176.0	1179.8	1187.4	1192.7
40°	1313.2	1274.6	1249.5	1235.1	1194.2	1156.3	1136.6	1141.9	1148.7	1154.0	1160.8
42.5°	1252.6	1225.3	1200.3	1172.2	1116.1	1095.6	1100.2	1107.0	1113.1	1120.6	1127.5
45°	1194.9	1170.7	1141.9	1078.2	1050.1	1055.4	1062.3	1067.6	1076.7	1082.0	1088.8
47.5°	1140.4	1114.6	1063.8	1007.7	1004.6	1015.3	1021.3	1028.1	1035.0	1021.3	563.4
50°	1078.9	1052.4	975.1	953.8	960.7	970.5	978.1	984.9	877.3	348.8	268.4
52.5°	1018.3	950.8	901.5	907.6	914.4	925.8	931.1	691.5	275.2	262.3	263.1
55°	950.8	864.4	850.0	857.5	863.6	875.0	580.0	254.0	252.5	251.7	257.8
57.5°	844.7	792.3	798.4	806.0	812.0	573.2	247.2	245.7	246.4	247.2	247.9
60°	749.9	738.5	745.3	752.2	532.3	238.8	234.3	235.0	238.1	235.8	229.7
62.5°	674.8	683.9	690.7	605.1	226.7	224.4	226.7	224.4	219.1	215.3	207.8
65°	617.2	626.3	631.6	213.1	212.3	215.3	213.1	205.5	197.1	186.5	184.2
67.5°	556.5	565.6	202.4	197.1	200.2	196.4	187.3	178.2	172.1	163.0	159.2
70°	493.6	211.5	183.5	182.7	177.4	171.4	161.5	152.4	144.8	141.0	137.2
72.5°	356.4	167.6	165.3	159.2	150.1	141.8	133.4	128.1	124.3	122.1	119.8
75°	148.6	145.6	138.8	128.1	119.0	115.2	109.2	105.4	103.9	99.3	97.8
77.5°	124.3	118.3	108.4	100.8	95.5	93.3	88.7	84.2	81.9	81.1	78.1
80°	95.5	87.2	82.6	78.9	77.3	72.0	66.7	64.4	62.9	62.2	59.9
82.5°	65.2	62.2	59.1	53.8	53.8	51.6	49.3	47.8	46.3	46.3	44.7
85°	42.5	40.2	39.4	37.2	37.2	35.6	34.9	34.1	33.4	32.6	31.8
87.5°	24.3	24.3	25.0	24.3	24.3	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1657.5	1665.0	1666.6	1692.3	1706.7	1706.0	1701.4	1715.1	1706.7	1702.2	1706.7
5°	1745.4	1754.5	1762.1	1790.1	1800.0	1804.6	1803.8	1811.4	1805.3	1800.0	1800.0
7.5°	1788.6	1791.7	1794.7	1787.9	1783.3	1775.7	1764.4	1747.7	1739.3	1730.2	1718.9
10°	1717.4	1707.5	1711.3	1697.6	1686.3	1677.9	1667.3	1653.7	1642.3	1634.0	1621.1
12.5°	1630.2	1629.4	1630.9	1633.2	1621.8	1615.0	1606.7	1596.8	1588.5	1579.4	1568.7
15°	1577.1	1577.8	1583.9	1581.6	1577.8	1574.1	1565.0	1561.9	1554.3	1544.5	1538.4
17.5°	1539.2	1543.0	1549.0	1546.0	1539.9	1536.1	1529.3	1522.5	1515.7	1508.1	1499.0
20°	1505.8	1509.6	1513.4	1509.6	1498.2	1492.9	1483.8	1462.6	1447.4	1432.3	1418.6
22.5°	1469.4	1471.7	1468.7	1456.5	1427.7	1414.1	1403.5	1397.4	1384.5	1376.2	1367.8
25°	1423.9	1411.0	1391.3	1377.7	1366.3	1360.2	1355.7	1354.9	1353.4	1351.9	1348.1
27.5°	1349.6	1345.1	1334.5	1329.2	1329.9	1332.2	1332.9	1335.2	1332.9	1329.9	1326.9
30°	1294.3	1296.5	1297.3	1298.8	1302.6	1304.9	1305.6	1308.7	1307.2	1304.9	1303.4
32.5°	1259.4	1264.7	1267.7	1272.3	1274.6	1278.4	1278.4	1282.9	1278.4	1277.6	1276.1
35°	1230.6	1235.1	1236.7	1243.5	1245.7	1249.5	1249.5	1253.3	1249.5	1210.9	956.1
37.5°	1201.8	1206.3	1209.4	1215.4	1216.2	1218.5	1124.4	822.7	530.8	411.0	313.9
40°	1167.7	1173.0	1176.0	1178.3	828.0	525.4	361.7	294.2	294.2	296.5	298.7
42.5°	1131.3	1135.0	790.8	460.2	286.6	285.8	288.1	290.4	292.7	295.7	298.7
45°	889.4	448.9	285.1	278.3	280.5	283.6	286.6	289.6	293.4	296.5	298.0
47.5°	291.9	273.7	277.5	274.5	278.3	282.1	285.1	288.1	288.9	289.6	288.9
50°	269.9	269.9	272.2	272.2	275.2	276.7	276.7	276.7	273.7	273.0	270.7
52.5°	260.8	266.9	263.9	265.4	263.9	261.6	259.3	257.0	252.5	251.0	247.9
55°	256.3	258.6	251.0	248.7	245.7	239.6	236.6	233.5	229.7	228.2	224.4
57.5°	245.7	240.4	232.0	228.2	222.9	216.8	213.8	211.5	207.8	206.2	204.0
60°	225.9	215.3	210.0	205.5	199.4	194.1	191.8	190.3	187.3	186.5	184.2
62.5°	201.7	192.6	188.0	182.0	177.4	174.4	172.1	171.4	168.3	168.3	166.8
65°	175.1	170.6	166.8	160.7	158.5	155.4	154.7	153.9	152.4	151.6	150.1
67.5°	153.9	150.9	145.6	142.5	141.0	138.8	137.2	135.7	132.7	131.2	128.9
70°	135.0	132.7	127.4	125.1	122.1	118.3	116.0	114.5	112.2	110.7	108.4
72.5°	116.8	109.9	106.2	103.9	101.6	97.8	97.1	95.5	93.3	92.5	90.2
75°	94.0	88.7	86.4	84.9	82.6	80.4	80.4	80.4	78.1	77.3	76.6
77.5°	75.1	72.0	70.5	69.0	68.2	66.7	64.4	63.7	61.4	61.4	60.7
80°	57.6	56.1	54.6	53.8	53.1	51.6	50.0	49.3	47.0	47.0	46.3
82.5°	42.5	41.7	40.9	40.2	39.4	38.7	36.4	35.6	34.1	34.1	33.4
85°	30.3	29.6	28.1	27.3	27.3	26.5	24.3	23.5	22.0	22.0	22.0
87.5°	19.0	18.2	17.4	16.7	15.9	15.2	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1697.6	1710.5	1709.0	1718.1	1720.4	1724.9	1726.5	1727.2	1715.8	1724.9	1725.7
5°	1797.7	1800.0	1801.5	1805.3	1809.1	1809.9	1806.1	1801.5	1803.0	1800.0	1792.4
7.5°	1717.4	1706.0	1703.7	1700.7	1699.2	1697.6	1690.8	1696.9	1690.1	1687.0	1676.4
10°	1618.8	1608.2	1607.4	1607.4	1609.7	1608.9	1607.4	1604.4	1610.5	1606.7	1604.4
12.5°	1567.2	1563.4	1565.7	1564.2	1570.3	1571.8	1570.3	1570.3	1568.7	1565.7	1567.2
15°	1536.1	1533.1	1535.4	1533.1	1537.7	1538.4	1534.6	1536.9	1533.1	1529.3	1527.8
17.5°	1495.2	1488.4	1483.1	1475.5	1476.2	1474.7	1470.2	1470.2	1466.4	1456.5	1457.3
20°	1416.3	1409.5	1406.5	1406.5	1410.3	1411.8	1411.0	1412.6	1408.8	1407.2	1401.2
22.5°	1367.1	1366.3	1367.8	1371.6	1377.7	1386.0	1386.8	1386.8	1386.8	1386.0	1378.4
25°	1349.6	1349.6	1351.1	1356.4	1361.0	1367.1	1368.6	1370.1	1368.6	1368.6	1361.8
27.5°	1329.9	1328.4	1331.4	1336.7	1342.0	1346.6	1350.4	1351.1	1348.9	1348.9	1351.1
30°	1305.6	1304.9	1308.7	1314.0	1318.5	1323.1	1326.9	1329.9	1326.9	1326.9	1324.6
32.5°	1280.6	1280.6	1282.1	1250.3	1159.3	1044.1	1046.3	979.6	933.4	875.0	952.3
35°	799.2	581.6	499.7	423.1	369.3	334.4	333.6	322.2	316.9	313.1	312.4
37.5°	301.8	303.3	306.3	307.8	310.1	311.6	312.4	312.4	312.4	312.4	311.6
40°	301.0	304.0	306.3	308.6	310.9	312.4	312.4	313.1	313.9	313.9	313.9
42.5°	301.8	304.8	307.8	310.1	311.6	312.4	313.1	313.9	313.9	313.9	313.9
45°	301.0	302.5	302.5	303.3	303.3	303.3	304.0	304.0	303.3	302.5	304.0
47.5°	289.6	289.6	287.4	286.6	285.8	284.3	285.1	284.3	283.6	282.8	284.3
50°	269.9	266.9	265.4	263.9	263.1	261.6	262.3	261.6	260.8	259.3	261.6
52.5°	246.4	245.7	242.6	241.1	240.4	241.1	239.6	238.8	238.1	237.3	238.1
55°	223.7	220.6	219.9	218.4	217.6	218.4	217.6	216.8	216.1	215.3	216.1
57.5°	203.2	200.9	200.2	198.7	198.7	198.7	198.7	197.9	197.1	196.4	197.1
60°	183.5	182.0	181.2	181.2	180.5	180.5	180.5	179.7	178.9	178.9	179.7
62.5°	166.8	166.8	164.5	163.8	163.8	164.5	163.8	163.0	162.3	161.5	163.0
65°	149.4	146.3	145.6	144.1	142.5	143.3	142.5	141.8	141.0	140.3	141.8
67.5°	128.1	127.4	124.3	122.8	122.1	122.8	122.1	121.3	120.6	119.8	121.3
70°	107.7	107.7	104.6	103.9	103.1	103.1	102.4	102.4	101.6	100.8	102.4
72.5°	89.5	89.5	88.7	87.2	86.4	85.7	84.9	84.2	84.2	84.9	84.9
75°	74.3	72.8	69.8	70.5	69.8	69.0	69.0	68.2	67.5	69.0	68.2
77.5°	58.4	57.6	55.3	56.1	55.3	54.6	54.6	53.8	53.1	53.8	53.8
80°	44.0	44.0	43.2	42.5	42.5	41.7	40.9	40.9	40.2	40.9	40.9
82.5°	31.8	31.8	31.1	30.3	29.6	29.6	28.8	28.8	28.8	28.8	28.8
85°	20.5	19.7	19.7	18.2	18.2	18.2	17.4	17.4	17.4	17.4	17.4
87.5°	9.9	9.9	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1712.1	1721.9	1713.6	1717.4	1718.1	1731.0	1730.2	1733.3	1728.0	1721.9	1713.6
5°	1799.2	1794.7	1788.6	1803.0	1795.5	1804.6	1807.6	1813.7	1813.7	1812.9	1806.1
7.5°	1687.8	1677.9	1685.5	1690.8	1693.1	1687.0	1699.2	1712.8	1724.2	1731.0	1731.8
10°	1600.6	1603.6	1602.9	1605.1	1610.5	1609.7	1617.3	1624.9	1627.9	1632.4	1634.0
12.5°	1559.6	1558.9	1560.4	1565.7	1568.7	1568.0	1575.6	1580.1	1581.6	1582.4	1581.6
15°	1527.0	1521.7	1525.5	1526.3	1528.6	1528.6	1537.7	1544.5	1547.5	1549.0	1547.5
17.5°	1465.6	1452.7	1464.9	1464.9	1473.2	1471.7	1486.1	1497.5	1503.5	1508.1	1508.1
20°	1405.0	1398.9	1403.5	1401.9	1408.0	1407.2	1416.3	1423.9	1429.2	1433.0	1437.6
22.5°	1380.7	1382.2	1375.4	1376.2	1376.2	1375.4	1380.0	1383.7	1385.3	1387.5	1386.0
25°	1364.8	1366.3	1364.0	1360.2	1358.7	1360.2	1362.5	1367.1	1367.8	1366.3	1361.0
27.5°	1348.9	1344.3	1348.1	1341.3	1339.8	1342.8	1345.8	1346.6	1347.3	1347.3	1342.8
30°	1324.6	1320.8	1324.6	1321.6	1318.5	1321.6	1323.8	1323.8	1325.4	1326.1	1320.8
32.5°	925.8	933.4	1056.2	1130.5	1235.1	1288.2	1298.1	1298.1	1299.6	1299.6	1295.0
35°	315.4	316.2	342.0	370.8	432.2	508.0	607.3	658.9	833.3	1041.8	1243.5
37.5°	311.6	310.9	310.1	309.4	308.6	307.8	306.3	305.6	310.1	367.7	498.9
40°	313.1	312.4	310.9	310.1	309.4	307.8	307.1	305.6	304.0	302.5	301.0
42.5°	313.1	312.4	311.6	310.9	310.1	309.4	307.8	306.3	304.8	302.5	300.3
45°	302.5	302.5	303.3	303.3	304.0	304.0	304.0	303.3	303.3	302.5	299.5
47.5°	282.8	282.8	285.1	285.1	286.6	288.1	288.1	289.6	291.9	293.4	294.2
50°	260.1	260.1	262.3	263.1	264.6	266.9	269.2	269.9	272.2	275.2	278.3
52.5°	237.3	237.3	239.6	239.6	241.1	243.4	245.7	246.4	249.5	252.5	256.3
55°	216.1	216.1	217.6	218.4	219.1	220.6	222.9	222.9	225.9	228.2	232.0
57.5°	197.1	198.7	198.7	198.7	199.4	200.9	202.4	202.4	204.7	207.0	210.0
60°	178.9	180.5	180.5	180.5	181.2	182.0	183.5	183.5	185.0	186.5	189.6
62.5°	162.3	163.8	163.8	164.5	164.5	165.3	166.8	166.0	167.6	168.3	170.6
65°	141.0	142.5	143.3	144.1	144.8	146.3	148.6	147.9	150.1	151.6	153.9
67.5°	120.6	122.1	122.1	122.8	123.6	125.1	126.6	126.6	128.9	130.4	133.4
70°	101.6	103.1	103.1	103.9	104.6	106.2	107.7	106.9	109.2	110.7	113.0
72.5°	84.2	85.7	85.7	86.4	86.4	88.0	89.5	91.0	91.0	92.5	94.0
75°	68.2	69.0	69.8	69.8	70.5	71.3	72.8	74.3	75.1	75.8	77.3
77.5°	53.8	54.6	55.3	55.3	56.1	56.9	57.6	60.7	62.2	62.9	62.9
80°	40.9	41.7	41.7	41.7	42.5	43.2	44.7	44.7	47.8	47.8	48.5
82.5°	28.8	29.6	29.6	29.6	30.3	31.8	32.6	33.4	34.9	35.6	35.6
85°	17.4	18.2	18.2	18.2	19.0	19.7	21.2	22.0	22.7	22.7	23.5
87.5°	6.8	7.6	8.3	8.3	9.1	9.9	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

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1704.5	1709.8	1704.5	1707.5	1711.3	1704.5	1688.5	1682.5	1680.2	1671.1	1665.0
5°	1799.2	1799.2	1797.0	1803.0	1802.3	1791.7	1775.0	1767.4	1759.8	1750.0	1742.4
7.5°	1731.8	1737.8	1741.6	1765.1	1780.3	1781.8	1792.4	1794.7	1797.7	1794.7	1790.1
10°	1634.7	1632.4	1643.1	1665.0	1677.9	1684.8	1705.2	1715.1	1723.4	1740.1	1757.5
12.5°	1580.1	1583.2	1587.7	1603.6	1615.8	1612.7	1621.1	1627.9	1637.7	1654.4	1679.4
15°	1543.7	1546.8	1551.3	1563.4	1571.0	1567.2	1571.8	1576.3	1583.2	1591.5	1606.7
17.5°	1504.3	1509.6	1514.9	1527.8	1534.6	1533.9	1537.7	1539.2	1541.5	1546.8	1557.4
20°	1442.9	1459.6	1470.2	1487.6	1497.5	1496.0	1502.8	1505.1	1508.1	1513.4	1517.9
22.5°	1386.8	1391.3	1396.6	1415.6	1432.3	1452.7	1457.3	1463.4	1470.9	1476.2	1480.8
25°	1354.9	1351.9	1354.2	1367.1	1376.2	1377.7	1384.5	1404.2	1424.7	1433.8	1444.4
27.5°	1336.0	1332.9	1332.2	1338.3	1339.8	1336.0	1334.5	1340.5	1355.7	1370.9	1402.7
30°	1315.5	1311.7	1308.7	1314.0	1316.3	1311.0	1301.1	1295.8	1304.9	1308.7	1321.6
32.5°	1291.2	1287.5	1285.9	1289.0	1290.5	1285.9	1275.3	1269.3	1267.7	1264.7	1267.7
35°	1263.9	1260.2	1257.9	1258.6	1261.7	1257.9	1248.8	1241.2	1237.4	1229.1	1223.0
37.5°	651.3	922.7	1198.0	1226.8	1229.8	1229.1	1220.0	1211.6	1207.8	1198.0	1194.9
40°	298.0	332.9	499.7	652.8	941.7	1196.5	1188.1	1179.8	1173.0	1169.9	1158.6
42.5°	297.2	298.0	298.7	294.9	365.5	622.5	919.0	1147.2	1142.6	1135.0	1126.7
45°	297.2	293.4	296.5	291.9	293.4	292.7	364.7	588.4	1047.1	1094.1	1090.3
47.5°	294.2	291.9	294.9	291.2	286.6	288.9	285.8	289.6	451.9	766.6	1050.1
50°	280.5	282.1	287.4	286.6	282.8	285.8	280.5	285.1	281.3	308.6	594.4
52.5°	260.1	263.1	268.4	273.0	274.5	278.3	276.7	278.3	275.2	276.0	276.7
55°	235.8	239.6	244.1	251.0	254.0	260.1	264.6	266.9	270.7	269.9	263.9
57.5°	213.1	216.8	220.6	227.5	234.3	237.3	245.7	250.2	260.1	257.8	256.3
60°	191.8	194.9	198.7	200.2	208.5	213.8	221.4	225.9	238.8	241.9	246.4
62.5°	172.9	174.4	177.4	179.7	185.0	190.3	194.1	201.7	208.5	218.4	225.2
65°	155.4	157.0	159.2	160.7	161.5	169.1	171.4	179.7	182.0	192.6	198.7
67.5°	135.7	138.8	141.8	143.3	144.8	149.4	150.9	154.7	160.0	164.5	172.1
70°	115.2	117.5	120.6	122.8	125.9	128.9	133.4	135.7	139.5	142.5	148.6
72.5°	96.3	98.6	100.1	102.4	104.6	106.9	110.7	116.0	119.0	124.3	125.9
75°	78.1	80.4	81.9	83.4	85.7	87.2	88.7	94.0	97.1	101.6	106.2
77.5°	64.4	64.4	66.0	70.5	69.8	69.8	71.3	74.3	76.6	79.6	84.2
80°	50.0	50.8	51.6	55.3	56.1	56.9	56.1	58.4	60.7	61.4	64.4
82.5°	37.2	37.9	37.9	40.2	42.5	42.5	42.5	43.2	45.5	46.3	47.8
85°	25.0	25.8	26.5	27.3	28.8	29.6	30.3	30.3	31.8	32.6	33.4
87.5°	13.6	15.2	15.9	16.7	17.4	18.2	19.0	19.7	20.5	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

TEST NUMBER: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1662.8	1659.0	1656.7	1650.6	1649.1	1639.3	1640.8	1639.3	1639.3	1641.5	1649.1
5°	1734.0	1715.8	1711.3	1698.4	1687.8	1669.6	1658.2	1652.2	1643.1	1639.3	1644.6
7.5°	1782.6	1768.9	1757.5	1746.2	1731.0	1709.8	1693.9	1675.7	1660.5	1646.1	1642.3
10°	1774.2	1789.4	1789.4	1782.6	1768.2	1746.9	1728.0	1705.2	1678.7	1655.9	1642.3
12.5°	1703.7	1730.2	1751.5	1767.4	1781.8	1767.4	1748.4	1730.2	1700.7	1667.3	1642.3
15°	1626.4	1653.7	1680.2	1713.6	1748.4	1762.9	1762.1	1740.9	1714.3	1679.4	1644.6
17.5°	1571.8	1590.7	1605.1	1641.5	1684.0	1721.1	1746.2	1747.7	1721.9	1690.8	1645.3
20°	1530.8	1544.5	1556.6	1577.1	1614.2	1659.7	1706.0	1731.8	1727.2	1693.1	1647.6
22.5°	1493.7	1503.5	1513.4	1528.6	1558.1	1587.7	1641.5	1694.6	1717.4	1689.3	1645.3
25°	1456.5	1467.1	1474.7	1485.3	1508.8	1533.1	1571.0	1637.0	1687.8	1686.3	1640.8
27.5°	1412.6	1427.0	1436.1	1450.5	1466.4	1484.6	1510.4	1572.5	1645.3	1671.1	1628.6
30°	1359.5	1380.7	1394.4	1410.3	1423.9	1439.9	1460.3	1498.2	1588.5	1641.5	1615.8
32.5°	1282.9	1320.8	1351.1	1366.3	1381.5	1395.1	1413.3	1445.2	1518.7	1601.4	1601.4
35°	1228.3	1245.7	1273.0	1317.0	1336.0	1349.6	1366.3	1391.3	1438.3	1553.6	1577.8
37.5°	1185.8	1192.7	1206.3	1249.5	1285.2	1307.2	1323.8	1339.8	1386.0	1488.4	1547.5
40°	1154.0	1151.7	1150.2	1170.7	1221.5	1256.4	1275.3	1291.2	1326.9	1410.3	1507.3
42.5°	1116.9	1114.6	1107.0	1112.3	1137.3	1195.7	1224.5	1242.0	1271.5	1328.4	1463.4
45°	1078.2	1074.4	1071.4	1066.1	1075.2	1107.8	1166.9	1192.7	1209.4	1260.2	1408.0
47.5°	1038.8	1033.4	1029.7	1025.1	1019.8	1035.0	1091.1	1137.3	1166.1	1198.0	1341.3
50°	982.6	989.5	984.9	979.6	975.1	972.0	995.5	1071.4	1107.0	1132.8	1260.2
52.5°	463.3	900.8	938.7	933.4	927.3	922.0	927.3	984.9	1049.4	1069.8	1162.3
55°	263.9	401.1	834.8	882.6	877.3	869.7	865.1	884.8	981.1	1008.4	1072.9
57.5°	254.0	254.8	368.5	795.4	824.9	818.1	812.8	817.4	899.2	945.5	994.8
60°	245.7	245.7	245.7	351.8	760.5	762.8	755.9	748.4	784.0	875.0	915.9
62.5°	227.5	232.0	234.3	234.3	347.3	704.4	697.6	695.3	696.8	790.1	837.1
65°	204.0	214.6	219.1	222.2	222.2	364.7	637.7	633.9	628.6	664.2	757.5
67.5°	178.2	188.8	198.7	204.7	205.5	212.3	380.6	570.9	563.4	564.1	672.5
70°	151.6	160.7	171.4	180.5	188.8	192.6	198.7	473.9	498.9	488.3	576.2
72.5°	131.2	135.0	142.5	151.6	161.5	170.6	175.9	188.8	432.9	421.6	438.2
75°	109.2	112.2	117.5	123.6	131.2	141.8	150.9	160.0	229.7	353.3	351.1
77.5°	84.9	90.2	96.3	100.1	103.9	111.5	123.6	132.7	141.8	238.8	281.3
80°	65.2	69.0	72.0	75.8	80.4	85.7	90.2	100.8	111.5	119.8	215.3
82.5°	48.5	50.8	53.1	54.6	56.1	59.1	67.5	71.3	78.1	85.7	101.6
85°	34.1	35.6	37.2	37.9	38.7	39.4	42.5	43.2	50.0	51.6	61.4
87.5°	22.0	22.7	24.3	25.0	25.0	25.8	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: P1213064

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1654.4	1654.4
2.5°	1655.2	1667.3
5°	1652.9	1668.8
7.5°	1646.8	1662.0
10°	1637.7	1655.9
12.5°	1627.9	1645.3
15°	1619.5	1632.4
17.5°	1610.5	1618.0
20°	1598.3	1604.4
22.5°	1586.2	1583.2
25°	1572.5	1565.7
27.5°	1555.1	1542.2
30°	1539.2	1516.4
32.5°	1524.0	1486.9
35°	1503.5	1456.5
37.5°	1482.3	1425.4
40°	1457.3	1389.8
42.5°	1430.8	1354.2
45°	1397.4	1320.1
47.5°	1367.8	1279.1
50°	1326.9	1235.1
52.5°	1276.8	1194.2
55°	1217.7	1144.1
57.5°	1154.0	1091.8
60°	1085.8	1031.9
62.5°	1003.1	969.8
65°	906.1	898.5
67.5°	779.4	819.6
70°	639.2	729.4
72.5°	534.5	633.9
75°	438.2	527.0
77.5°	347.3	413.2
80°	216.8	302.5
82.5°	145.6	198.7
85°	88.0	94.8
87.5°	34.1	34.9
90°	0.0	0.0

(END OF REPORT)