

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: P1214108

Luminaire Tested: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214108
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

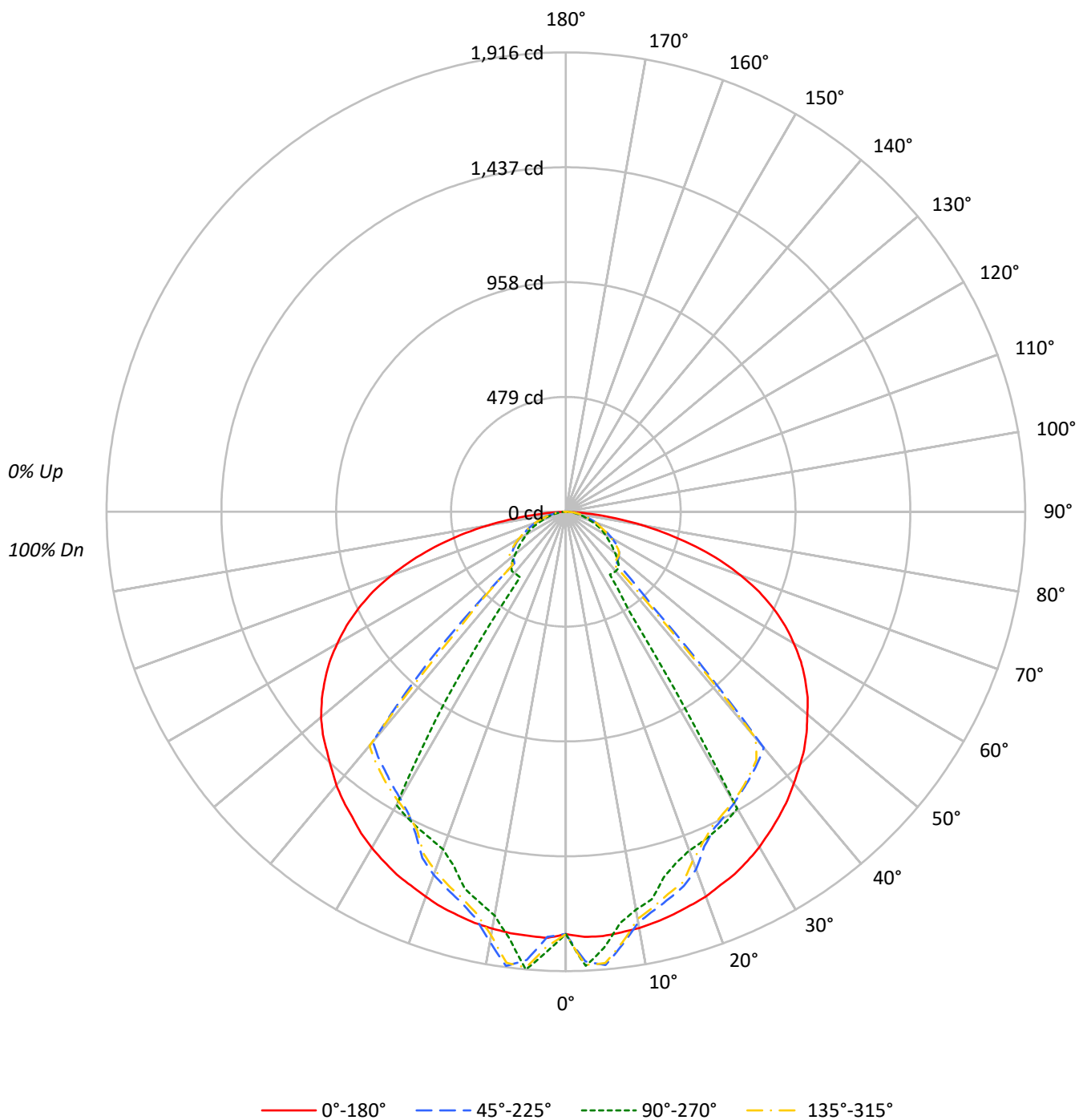
Lumens per Lamp: N/A
Luminaire Lumens: 3527.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	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	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°	14233	14233	14233	14233
5°	14372	14341	14366	15051
10°	14387	12965	14406	13164
15°	14419	11996	14452	12376
20°	14523	11378	14523	11335
25°	14649	11160	14670	11056
30°	14797	10963	14834	10833
35°	14969	2497	15000	2604
40°	15210	2597	15301	2681
45°	15573	2583	15628	2676
50°	15937	2335	16153	2398
55°	16428	2073	16558	2102
60°	16844	1842	16881	1866
65°	17141	1608	17098	1582
70°	16896	1296	16844	1249
75°	15686	997	15798	956
80°	12733	708	13243	648
85°	6893	424	7276	326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 17259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	4.9
10°-20°	476.5	13.5
20°-30°	705.7	20.0
30°-40°	711.1	20.2
40°-50°	555.5	15.7
50°-60°	429.1	12.2
60°-70°	288.1	8.2
70°-80°	146.9	4.2
80°-90°	40.9	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°	1355.5	38.4
0°-40°	2066.6	58.6
0°-60°	3051.1	86.5
0°-90°	3527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3527.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1761	1761	1761	1761	1761	
5°	1777	1826	1776	1916	1777	169
15°	1738	1578	1742	1628	1738	492
25°	1667	1471	1669	1457	1667	769
35°	1551	320	1554	333	1551	972
45°	1405	311	1410	322	1405	1084
55°	1218	226	1228	229	1218	1088
65°	956	152	954	149	956	941
75°	561	77	565	74	561	587
85°	101	24	106	19	101	139
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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1775.0	1781.5	1786.3	1789.5	1791.2	1791.2	1792.0	1792.8	1803.3	1808.1	1811.3
5°	1776.6	1783.1	1792.8	1805.7	1817.0	1826.7	1834.7	1846.0	1857.3	1869.5	1873.5
7.5°	1769.4	1777.4	1796.8	1820.2	1842.0	1857.3	1867.8	1875.1	1880.8	1881.6	1885.6
10°	1762.9	1777.4	1804.1	1834.7	1862.2	1880.8	1880.8	1876.7	1882.4	1860.6	1838.8
12.5°	1751.6	1767.8	1804.1	1844.4	1870.3	1877.5	1874.3	1858.2	1825.1	1798.4	1786.3
15°	1737.9	1759.7	1804.9	1850.1	1871.9	1874.3	1843.6	1802.5	1777.4	1761.3	1741.1
17.5°	1722.5	1751.6	1805.7	1850.9	1859.0	1847.7	1789.5	1763.7	1737.9	1699.9	1672.5
20°	1708.0	1736.3	1799.2	1839.6	1844.4	1793.6	1748.4	1720.9	1677.3	1644.3	1632.1
22.5°	1685.4	1718.5	1793.6	1824.3	1805.7	1746.8	1703.2	1659.6	1620.0	1610.3	1595.8
25°	1666.9	1701.6	1780.7	1805.7	1756.4	1704.0	1653.1	1602.3	1583.7	1570.0	1557.1
27.5°	1641.8	1684.6	1763.7	1771.8	1704.0	1658.0	1583.7	1561.1	1544.2	1528.8	1523.2
30°	1614.4	1666.9	1740.3	1725.0	1660.4	1592.6	1537.7	1516.7	1504.6	1488.5	1482.0
32.5°	1582.9	1640.2	1714.5	1670.9	1613.6	1528.8	1493.3	1477.2	1461.0	1448.9	1408.6
35°	1550.6	1616.8	1683.8	1619.2	1557.1	1480.4	1448.9	1434.4	1419.0	1374.6	1332.7
37.5°	1517.5	1591.0	1646.7	1563.5	1482.0	1430.3	1403.7	1387.6	1352.9	1296.4	1275.4
40°	1479.6	1559.5	1599.0	1506.2	1416.6	1379.5	1354.5	1338.3	1260.0	1235.0	1228.5
42.5°	1441.6	1528.8	1540.9	1450.5	1362.5	1325.4	1304.4	1251.1	1197.9	1185.0	1187.4
45°	1405.3	1495.7	1477.2	1371.4	1306.0	1275.4	1239.8	1166.4	1138.1	1144.6	1146.2
47.5°	1361.7	1456.2	1410.2	1292.3	1247.9	1217.2	1138.1	1093.7	1089.7	1098.6	1103.4
50°	1314.9	1411.8	1339.1	1220.5	1185.0	1148.6	1059.0	1036.4	1041.3	1050.2	1055.8
52.5°	1271.3	1361.7	1265.7	1153.5	1122.8	1039.7	979.1	983.2	991.2	1001.7	1005.0
55°	1218.1	1301.2	1187.4	1085.7	1056.6	947.6	920.2	929.9	938.0	946.8	953.3
57.5°	1162.4	1231.8	1094.6	1009.8	963.0	866.1	868.5	875.0	880.6	891.1	368.1
60°	1098.6	1152.7	992.8	939.6	846.7	801.5	804.0	815.3	820.9	458.5	253.5
62.5°	1032.4	1060.7	900.8	859.7	740.2	737.0	748.3	753.1	512.6	242.2	237.3
65°	956.5	950.9	810.4	745.0	667.5	670.8	682.9	658.7	226.8	226.8	225.2
67.5°	872.6	838.7	722.4	616.7	597.3	604.6	617.5	215.5	209.9	211.5	205.8
70°	776.5	728.9	631.2	522.3	528.7	536.0	208.3	195.3	192.9	188.9	177.6
72.5°	674.8	609.4	516.6	453.6	457.7	287.4	182.4	176.0	167.9	159.8	147.7
75°	561.0	476.2	379.4	379.4	385.0	163.9	159.0	148.5	139.6	129.2	121.9
77.5°	439.9	366.5	294.6	305.9	149.3	137.2	128.3	117.0	109.8	103.3	99.3
80°	322.1	255.9	222.0	198.6	116.2	104.1	95.2	88.8	85.6	81.5	76.7
82.5°	211.5	154.2	154.2	93.6	81.5	71.8	69.4	64.6	61.3	58.9	56.5
85°	100.9	89.6	67.8	57.3	50.9	46.0	44.4	42.0	42.0	41.2	40.4
87.5°	37.1	40.4	29.9	29.1	27.4	26.6	27.4	27.4	28.3	27.4	26.6
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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1819.4	1825.9	1830.7	1838.8	1849.3	1858.2	1866.2	1877.5	1895.3	1900.1	1904.2
5°	1873.5	1875.9	1881.6	1888.0	1889.6	1893.7	1892.9	1897.7	1900.1	1905.8	1893.7
7.5°	1876.7	1863.8	1848.5	1834.7	1825.1	1816.2	1810.5	1819.4	1824.3	1828.3	1816.2
10°	1808.9	1793.6	1784.7	1776.6	1766.9	1753.2	1734.7	1738.7	1737.1	1737.1	1733.0
12.5°	1766.1	1744.3	1721.7	1701.6	1692.7	1691.9	1692.7	1701.6	1701.6	1700.8	1695.9
15°	1699.1	1678.2	1666.9	1662.0	1662.0	1659.6	1659.6	1669.3	1666.9	1666.9	1664.4
17.5°	1654.7	1640.2	1632.1	1626.5	1624.1	1628.1	1632.9	1637.0	1637.8	1634.6	1621.6
20°	1618.4	1604.7	1595.0	1596.6	1595.8	1598.2	1600.7	1586.9	1570.0	1547.4	1536.9
22.5°	1580.5	1570.0	1562.7	1562.7	1553.0	1537.7	1515.1	1510.3	1507.8	1497.3	1488.5
25°	1544.2	1532.1	1521.6	1489.3	1469.1	1471.5	1467.5	1459.4	1458.6	1457.8	1461.0
27.5°	1507.8	1476.4	1436.0	1431.2	1423.1	1422.3	1427.1	1431.2	1431.2	1434.4	1438.4
30°	1432.8	1396.4	1389.2	1380.3	1383.5	1394.8	1397.2	1402.9	1404.5	1410.2	1413.4
32.5°	1364.2	1348.0	1341.6	1345.6	1356.1	1365.8	1371.4	1373.8	1377.9	1382.7	1386.8
35°	1308.5	1303.6	1309.3	1318.1	1328.6	1336.7	1341.6	1346.4	1350.4	1354.5	1357.7
37.5°	1267.3	1270.5	1278.6	1289.9	1300.4	1306.8	1310.9	1316.5	1322.2	1327.0	1307.7
40°	1228.5	1236.6	1245.5	1257.6	1266.5	1272.9	1277.0	1284.2	1235.8	559.4	306.7
42.5°	1194.6	1203.5	1210.0	1219.7	1229.4	1234.2	1198.7	535.2	302.7	301.1	305.1
45°	1153.5	1160.7	1171.2	1178.5	1187.4	779.7	297.9	301.1	296.2	299.5	301.1
47.5°	1111.5	1122.8	1128.5	1076.8	320.5	296.2	293.0	296.2	293.0	297.0	294.6
50°	1063.9	1077.6	766.8	289.8	287.4	285.7	289.0	287.4	289.8	293.0	286.6
52.5°	1015.4	628.8	280.9	279.3	280.9	279.3	284.9	280.9	281.7	278.5	270.4
55°	343.9	272.0	269.6	268.8	273.6	273.6	273.6	267.2	263.1	255.1	249.4
57.5°	263.1	263.1	262.3	263.1	261.5	259.9	252.7	247.0	241.4	230.0	226.8
60°	249.4	249.4	249.4	249.4	242.2	238.9	227.6	222.8	213.1	207.4	204.2
62.5°	238.1	236.5	229.2	226.8	218.7	209.9	203.4	198.6	188.9	185.7	183.2
65°	222.0	216.3	207.4	197.8	193.7	184.0	180.8	173.5	168.7	166.3	164.7
67.5°	195.3	187.3	180.0	173.5	166.3	163.1	159.0	153.4	150.1	148.5	146.9
70°	167.1	161.4	154.2	150.1	145.3	142.9	137.2	135.6	133.2	130.8	128.3
72.5°	139.6	136.4	133.2	127.5	125.9	124.3	118.7	115.4	112.2	109.0	107.4
75°	117.0	114.6	113.0	108.2	105.7	100.9	96.9	94.4	92.0	89.6	88.0
77.5°	96.1	94.4	89.6	86.4	84.8	80.7	79.1	79.9	78.3	75.1	73.5
80°	75.1	73.5	69.4	69.4	67.8	66.2	64.6	63.0	61.3	58.9	57.3
82.5°	57.3	55.7	54.1	52.5	50.9	50.0	49.2	47.6	46.0	44.4	43.6
85°	40.4	39.6	38.7	37.9	37.1	36.3	35.5	33.9	32.3	31.5	30.7
87.5°	27.4	26.6	25.8	25.0	24.2	23.4	22.6	21.8	20.2	19.4	18.6
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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1904.2	1908.2	1904.2	1895.3	1889.6	1887.2	1892.1	1892.1	1895.3	1899.3	1900.1
5°	1874.3	1864.6	1853.3	1842.0	1836.4	1833.1	1824.3	1825.9	1828.3	1829.9	1831.5
7.5°	1800.0	1787.1	1771.8	1757.3	1751.6	1746.8	1736.3	1736.3	1736.3	1737.1	1741.9
10°	1724.2	1718.5	1712.1	1702.4	1695.1	1692.7	1683.8	1686.2	1684.6	1687.0	1692.7
12.5°	1688.6	1682.2	1676.5	1666.9	1658.8	1655.6	1651.5	1653.9	1653.1	1657.2	1662.0
15°	1656.4	1653.1	1646.7	1639.4	1632.1	1625.7	1611.2	1606.3	1603.1	1599.0	1604.7
17.5°	1603.1	1580.5	1565.1	1553.8	1545.8	1540.1	1536.1	1536.1	1538.5	1540.9	1545.8
20°	1530.4	1524.0	1516.7	1504.6	1496.5	1493.3	1490.9	1490.9	1494.9	1498.1	1507.0
22.5°	1480.4	1479.6	1477.2	1471.5	1467.5	1467.5	1468.3	1469.9	1475.5	1480.4	1489.3
25°	1457.0	1460.2	1458.6	1455.4	1452.9	1453.8	1452.1	1453.8	1459.4	1464.2	1471.5
27.5°	1438.4	1443.3	1441.6	1436.8	1432.8	1434.4	1436.8	1435.2	1440.0	1445.7	1451.3
30°	1413.4	1414.2	1417.4	1411.8	1410.2	1412.6	1413.4	1415.0	1419.9	1423.9	1428.7
32.5°	1385.1	1391.6	1390.8	1385.1	1385.1	1387.6	1388.4	1334.3	1233.4	1062.3	1015.4
35°	1357.7	1365.0	1352.9	1140.6	789.4	421.4	325.3	314.0	316.4	318.0	319.6
37.5°	1004.1	476.2	303.5	305.9	308.3	310.8	313.2	315.6	318.0	320.5	321.3
40°	301.9	301.1	303.5	306.7	309.2	310.8	314.0	316.4	318.8	321.3	322.1
42.5°	298.7	300.3	302.7	305.9	309.2	312.4	314.8	318.0	319.6	321.3	322.1
45°	297.0	300.3	303.5	305.9	308.3	310.0	311.6	312.4	311.6	311.6	313.2
47.5°	294.6	297.9	298.7	297.9	298.7	297.9	297.9	297.9	295.4	294.6	294.6
50°	285.7	285.7	284.1	280.9	280.1	279.3	277.7	276.9	273.6	272.8	272.8
52.5°	267.2	266.4	264.0	259.9	258.3	256.7	255.9	255.1	251.8	250.2	251.0
55°	245.4	243.8	241.4	236.5	235.7	234.1	233.3	232.5	229.2	230.9	228.4
57.5°	225.2	222.0	218.7	217.9	214.7	213.9	213.1	212.3	209.9	210.7	209.1
60°	201.0	200.2	198.6	195.3	195.3	194.5	194.5	192.9	191.3	190.5	190.5
62.5°	183.2	180.8	179.2	179.2	176.8	176.8	176.8	175.2	173.5	174.4	173.5
65°	163.9	163.1	162.2	160.6	160.6	159.8	159.8	158.2	155.8	156.6	155.0
67.5°	147.7	146.1	144.5	143.7	140.5	138.8	138.0	137.2	134.0	134.8	133.2
70°	127.5	125.1	123.5	121.9	119.5	117.9	117.9	116.2	113.8	114.6	113.0
72.5°	106.5	104.9	103.3	102.5	100.1	99.3	98.5	97.7	95.2	96.1	95.2
75°	88.8	88.8	88.0	87.2	84.8	82.3	80.7	79.9	78.3	79.1	77.5
77.5°	73.5	71.8	70.2	70.2	67.8	66.2	64.6	64.6	64.6	63.8	63.0
80°	57.3	55.7	55.7	54.9	53.3	51.7	50.9	50.9	50.0	50.0	49.2
82.5°	43.6	42.0	41.2	41.2	39.6	38.7	37.9	37.1	37.1	37.1	36.3
85°	30.7	29.1	28.3	28.3	26.6	25.8	25.8	25.0	25.0	24.2	24.2
87.5°	18.6	17.8	17.0	17.0	15.3	14.5	14.5	14.5	13.7	13.7	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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1900.1	1900.1	1894.5	1896.1	1893.7	1896.9	1892.9	1892.9	1897.7	1897.7	1900.9
5°	1832.3	1828.3	1827.5	1825.9	1817.8	1821.0	1817.0	1813.0	1818.6	1818.6	1825.9
7.5°	1739.5	1732.2	1735.5	1730.6	1725.8	1718.5	1720.9	1717.7	1721.7	1727.4	1734.7
10°	1691.9	1685.4	1689.5	1684.6	1687.0	1676.5	1677.3	1678.2	1682.2	1683.8	1690.3
12.5°	1661.2	1659.6	1658.0	1656.4	1658.0	1652.3	1649.1	1649.9	1651.5	1652.3	1657.2
15°	1596.6	1586.1	1589.4	1578.1	1578.9	1579.7	1573.2	1579.7	1578.9	1589.4	1599.0
17.5°	1544.2	1544.2	1538.5	1533.7	1530.4	1529.6	1524.8	1528.0	1524.8	1531.2	1533.7
20°	1507.8	1507.0	1506.2	1503.8	1495.7	1496.5	1499.0	1491.7	1490.9	1490.1	1494.9
22.5°	1490.9	1491.7	1488.5	1488.5	1481.2	1482.8	1483.6	1475.5	1476.4	1473.9	1476.4
25°	1473.1	1474.7	1470.7	1470.7	1469.1	1468.3	1464.2	1465.9	1461.0	1457.0	1461.0
27.5°	1452.1	1455.4	1452.1	1453.8	1450.5	1448.9	1446.5	1444.9	1440.0	1439.2	1441.6
30°	1432.8	1434.4	1433.6	1429.5	1428.7	1423.9	1426.3	1421.5	1416.6	1417.4	1419.0
32.5°	734.5	701.4	540.8	488.4	483.5	501.3	594.1	723.2	937.1	1144.6	1293.9
35°	320.5	320.5	320.5	319.6	319.6	318.8	318.0	317.2	316.4	315.6	314.8
37.5°	322.1	322.1	322.1	322.1	321.3	320.5	320.5	318.8	318.0	317.2	316.4
40°	322.9	323.7	323.7	323.7	322.9	322.9	322.1	320.5	319.6	318.0	316.4
42.5°	322.1	322.9	322.9	322.1	322.1	321.3	321.3	320.5	319.6	318.8	318.0
45°	311.6	312.4	310.8	310.8	310.0	310.0	310.0	310.0	310.0	310.8	310.8
47.5°	293.0	293.0	292.2	291.4	291.4	290.6	291.4	290.6	292.2	293.0	294.6
50°	271.2	271.2	269.6	268.8	268.8	268.8	268.8	269.6	270.4	272.0	273.6
52.5°	248.6	248.6	247.8	247.0	246.2	246.2	248.6	247.8	248.6	249.4	251.8
55°	226.8	227.6	226.0	226.0	225.2	225.2	225.2	226.0	226.8	227.6	230.0
57.5°	208.3	208.3	206.6	206.6	206.6	205.8	208.3	206.6	207.4	208.3	209.9
60°	189.7	188.9	188.9	188.1	188.1	188.1	189.7	188.9	188.9	189.7	191.3
62.5°	172.7	172.7	171.9	171.9	171.1	171.1	172.7	171.9	171.9	172.7	173.5
65°	153.4	153.4	152.6	151.8	154.2	151.8	154.2	152.6	154.2	155.0	156.6
67.5°	131.6	131.6	131.6	130.8	130.8	132.4	133.2	131.6	132.4	134.0	134.8
70°	112.2	112.2	111.4	111.4	111.4	113.0	113.8	112.2	113.0	113.8	115.4
72.5°	95.2	93.6	93.6	92.8	94.4	94.4	95.2	94.4	95.2	95.2	96.9
75°	78.3	76.7	76.7	76.7	78.3	77.5	78.3	77.5	78.3	78.3	79.1
77.5°	63.0	62.2	61.3	61.3	63.0	63.0	63.0	62.2	63.0	63.8	64.6
80°	49.2	48.4	47.6	47.6	49.2	49.2	49.2	50.0	49.2	50.0	50.9
82.5°	36.3	35.5	34.7	36.3	36.3	36.3	36.3	37.1	36.3	37.1	37.9
85°	24.2	23.4	22.6	24.2	24.2	24.2	24.2	25.0	24.2	25.0	25.8
87.5°	12.9	12.1	12.1	12.9	12.9	12.9	13.7	13.7	13.7	14.5	14.5
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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1905.8	1908.2	1907.4	1902.6	1897.7	1892.1	1888.0	1888.8	1896.9	1899.3	1892.1
5°	1825.9	1841.2	1841.2	1851.7	1846.0	1841.2	1844.4	1862.2	1871.1	1884.8	1889.6
7.5°	1743.5	1750.8	1750.0	1760.5	1758.9	1758.9	1761.3	1784.7	1796.0	1807.3	1810.5
10°	1697.5	1704.8	1704.0	1704.8	1702.4	1696.7	1696.7	1707.2	1716.9	1722.5	1724.2
12.5°	1664.4	1668.5	1667.7	1667.7	1666.0	1661.2	1660.4	1669.3	1679.8	1687.0	1687.8
15°	1615.2	1626.5	1628.9	1639.4	1637.0	1630.5	1632.1	1639.4	1645.9	1652.3	1649.9
17.5°	1541.7	1547.4	1548.2	1552.2	1550.6	1550.6	1560.3	1586.9	1604.7	1620.0	1621.6
20°	1499.8	1503.8	1502.2	1511.1	1507.0	1506.2	1508.6	1519.9	1528.0	1535.3	1548.2
22.5°	1479.6	1482.8	1480.4	1481.2	1473.9	1467.5	1465.9	1474.7	1483.6	1493.3	1493.3
25°	1462.6	1465.1	1464.2	1462.6	1457.0	1448.1	1446.5	1448.1	1451.3	1452.1	1446.5
27.5°	1442.5	1444.1	1444.1	1444.9	1437.6	1429.5	1427.9	1426.3	1429.5	1428.7	1419.9
30°	1421.5	1419.0	1419.9	1420.7	1414.2	1406.9	1403.7	1402.9	1406.1	1405.3	1396.4
32.5°	1371.4	1390.0	1391.6	1393.2	1387.6	1381.1	1377.9	1375.5	1377.1	1376.3	1368.2
35°	314.0	319.6	391.5	886.3	1203.5	1332.7	1346.4	1343.2	1344.0	1344.0	1337.5
37.5°	314.8	314.0	313.2	310.8	308.3	306.7	530.3	1130.9	1310.1	1310.9	1305.2
40°	314.8	314.0	313.2	311.6	308.3	305.9	301.9	298.7	305.9	673.2	1231.8
42.5°	316.4	314.8	313.2	311.6	308.3	305.1	301.9	297.9	300.3	298.7	294.6
45°	311.6	310.8	310.8	310.0	308.3	305.1	301.1	296.2	293.8	296.2	292.2
47.5°	296.2	297.0	299.5	300.3	300.3	301.1	298.7	295.4	291.4	293.8	289.0
50°	275.3	276.9	277.7	281.7	283.3	286.6	287.4	287.4	286.6	289.8	286.6
52.5°	252.7	254.3	258.3	259.9	261.5	266.4	268.0	270.4	272.0	276.9	280.1
55°	230.9	231.7	233.3	236.5	238.9	243.0	245.4	247.8	251.8	254.3	264.0
57.5°	210.7	211.5	214.7	215.5	217.1	220.4	222.8	226.0	229.2	230.9	242.2
60°	191.3	192.1	194.5	195.3	196.1	199.4	201.8	204.2	206.6	208.3	216.3
62.5°	174.4	174.4	176.8	176.8	177.6	180.0	181.6	183.2	185.7	186.5	190.5
65°	157.4	158.2	159.8	159.8	160.6	162.2	163.1	163.9	166.3	166.3	169.5
67.5°	136.4	137.2	139.6	141.3	142.1	145.3	146.1	146.9	148.5	149.3	150.9
70°	116.2	117.0	119.5	120.3	121.1	123.5	125.1	127.5	130.0	132.4	134.0
72.5°	97.7	98.5	100.9	100.9	103.3	104.1	105.7	106.5	109.0	110.6	113.0
75°	79.9	80.7	83.1	83.1	85.6	86.4	87.2	88.0	89.6	91.2	92.8
77.5°	65.4	65.4	68.6	70.2	71.8	71.8	72.6	72.6	72.6	73.5	75.1
80°	51.7	51.7	54.1	55.7	57.3	57.3	58.1	58.9	59.7	59.7	60.5
82.5°	38.7	38.7	41.2	42.0	43.6	43.6	43.6	44.4	45.2	44.4	46.0
85°	26.6	26.6	28.3	29.1	30.7	30.7	30.7	31.5	32.3	31.5	32.3
87.5°	15.3	16.1	17.0	17.8	18.6	19.4	19.4	19.4	20.2	20.2	21.0
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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1884.0	1874.3	1873.5	1862.2	1859.0	1859.8	1850.9	1847.7	1833.1	1829.9	1814.6
5°	1891.3	1896.1	1893.7	1892.9	1895.3	1893.7	1887.2	1884.0	1881.6	1875.1	1862.2
7.5°	1811.3	1814.6	1817.0	1827.5	1836.4	1851.7	1867.8	1878.3	1886.4	1888.0	1877.5
10°	1729.8	1745.1	1755.6	1771.8	1784.7	1793.6	1803.3	1812.1	1835.6	1859.0	1872.7
12.5°	1687.8	1691.9	1691.1	1699.9	1708.8	1732.2	1754.8	1767.8	1785.5	1796.0	1821.0
15°	1652.3	1653.1	1655.6	1662.0	1666.9	1674.9	1685.4	1704.8	1740.3	1756.4	1770.2
17.5°	1620.0	1620.0	1621.6	1627.3	1633.8	1641.0	1647.5	1655.6	1673.3	1699.9	1733.8
20°	1568.4	1591.0	1593.4	1592.6	1595.8	1609.5	1611.2	1625.7	1634.6	1645.1	1678.2
22.5°	1491.7	1505.4	1524.8	1554.7	1566.0	1572.4	1577.3	1583.7	1597.4	1609.5	1623.3
25°	1449.7	1458.6	1464.2	1473.1	1496.5	1534.5	1541.7	1549.0	1557.9	1566.8	1583.7
27.5°	1412.6	1411.8	1415.8	1423.9	1430.3	1450.5	1486.0	1514.3	1515.9	1528.8	1543.4
30°	1385.9	1381.1	1375.5	1373.8	1382.7	1393.2	1403.7	1448.1	1478.8	1485.2	1500.6
32.5°	1360.9	1352.9	1344.8	1338.3	1332.7	1341.6	1348.0	1367.4	1406.9	1444.1	1452.1
35°	1330.3	1322.2	1312.5	1305.2	1296.4	1295.5	1294.7	1313.3	1326.2	1370.6	1409.4
37.5°	1298.8	1289.9	1281.8	1273.7	1264.9	1258.4	1254.4	1259.2	1271.3	1290.7	1355.3
40°	1265.7	1255.2	1247.1	1240.7	1228.5	1223.7	1215.6	1212.4	1213.2	1230.2	1264.1
42.5°	756.3	1205.9	1210.0	1202.7	1192.2	1185.8	1176.9	1172.9	1164.8	1172.9	1192.2
45°	291.4	294.6	882.3	1165.6	1152.7	1144.6	1136.5	1132.5	1123.6	1117.2	1134.9
47.5°	285.7	289.0	282.5	400.4	1100.2	1102.6	1092.9	1088.9	1080.0	1075.2	1070.3
50°	281.7	284.1	279.3	280.9	275.3	1008.2	1048.5	1043.7	1034.0	1028.4	1018.7
52.5°	277.7	277.7	274.4	270.4	268.8	269.6	848.4	997.7	986.4	980.7	967.8
55°	264.8	266.4	269.6	263.1	261.5	260.7	258.3	808.0	933.9	927.5	916.2
57.5°	245.4	248.6	257.5	255.9	255.9	249.4	247.8	247.8	749.9	873.4	862.1
60°	222.8	226.0	235.7	238.9	241.4	239.7	238.1	237.3	234.1	790.2	804.8
62.5°	199.4	202.6	205.8	216.3	219.6	223.6	228.4	226.0	222.8	222.8	744.2
65°	174.4	179.2	180.8	190.5	194.5	201.8	205.8	211.5	209.9	209.1	213.1
67.5°	152.6	158.2	159.0	163.1	170.3	173.5	178.4	188.9	193.7	195.3	197.0
70°	134.0	137.2	139.6	141.3	146.1	146.9	155.8	163.1	170.3	178.4	180.8
72.5°	115.4	117.9	122.7	121.1	122.7	125.9	130.8	135.6	142.9	154.2	161.4
75°	94.4	96.1	99.3	100.9	104.1	106.5	109.8	113.8	120.3	125.9	135.6
77.5°	75.9	76.7	79.1	79.9	83.1	85.6	91.2	93.6	97.7	101.7	107.4
80°	61.3	61.3	62.2	62.2	64.6	67.0	71.0	73.5	78.3	81.5	81.5
82.5°	46.8	46.8	49.2	49.2	50.9	50.9	53.3	53.3	55.7	57.3	58.9
85°	33.1	33.9	35.5	34.7	36.3	35.5	37.1	38.7	39.6	38.7	37.9
87.5°	21.8	21.8	23.4	22.6	23.4	23.4	25.0	25.0	25.8	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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1808.9	1796.8	1789.5	1780.7	1778.2	1775.8	1779.1	1779.1	1774.2	1770.2	1762.9
5°	1850.9	1838.0	1824.3	1809.7	1796.0	1781.5	1775.8	1775.0	1766.1	1761.3	1758.9
7.5°	1872.7	1866.2	1850.9	1830.7	1809.7	1783.9	1772.6	1766.1	1757.3	1755.6	1755.6
10°	1875.1	1867.8	1859.8	1845.2	1821.0	1787.1	1765.3	1752.4	1744.3	1750.0	1760.5
12.5°	1851.7	1865.4	1858.2	1848.5	1829.1	1787.9	1756.4	1737.1	1734.7	1749.2	1776.6
15°	1792.0	1832.3	1852.5	1842.8	1827.5	1786.3	1741.9	1719.3	1719.3	1749.2	1784.7
17.5°	1746.8	1778.2	1827.5	1835.6	1817.8	1783.1	1728.2	1701.6	1708.8	1752.4	1790.4
20°	1709.6	1729.0	1776.6	1821.8	1804.9	1775.8	1708.0	1680.6	1695.1	1747.6	1798.4
22.5°	1651.5	1690.3	1719.3	1786.3	1792.0	1762.1	1687.8	1654.7	1683.8	1747.6	1794.4
25°	1595.0	1641.8	1672.5	1737.9	1772.6	1745.1	1669.3	1627.3	1671.7	1745.1	1791.2
27.5°	1555.5	1577.3	1632.9	1679.8	1743.5	1722.5	1644.3	1597.4	1656.4	1732.2	1772.6
30°	1513.5	1528.0	1582.9	1627.3	1704.8	1696.7	1618.4	1564.3	1637.0	1720.1	1724.2
32.5°	1467.5	1483.6	1511.9	1576.4	1650.7	1672.5	1589.4	1531.2	1616.0	1701.6	1667.7
35°	1420.7	1432.8	1455.4	1524.8	1587.7	1636.2	1553.8	1493.3	1601.5	1673.3	1613.6
37.5°	1373.8	1386.8	1406.1	1464.2	1521.6	1602.3	1523.2	1455.4	1574.8	1623.3	1557.1
40°	1329.4	1336.7	1356.9	1393.2	1466.7	1567.6	1488.5	1415.8	1547.4	1559.5	1480.4
42.5°	1247.9	1284.2	1302.8	1331.9	1404.5	1519.9	1448.1	1373.8	1516.7	1495.7	1403.7
45°	1159.9	1239.0	1247.1	1276.2	1349.6	1469.1	1410.2	1332.7	1487.7	1440.8	1331.1
47.5°	1088.1	1145.4	1192.2	1216.4	1284.2	1409.4	1374.6	1298.0	1444.1	1371.4	1260.0
50°	1024.3	1055.0	1139.8	1157.5	1205.9	1337.5	1332.7	1257.6	1383.5	1284.2	1190.6
52.5°	962.2	984.0	1060.7	1098.6	1138.1	1260.0	1282.6	1218.1	1317.3	1197.1	1120.4
55°	908.1	915.4	957.3	1037.2	1072.8	1181.7	1227.7	1172.0	1233.4	1113.9	1052.6
57.5°	852.4	845.9	876.6	979.1	1005.0	1101.8	1169.6	1125.2	1165.6	1029.2	982.4
60°	794.3	785.4	798.3	866.1	933.1	1022.7	1101.0	1073.6	1083.3	945.2	904.1
62.5°	733.7	724.9	720.8	763.6	862.9	941.2	1031.6	1016.3	982.4	868.5	807.2
65°	670.8	661.9	655.4	672.4	785.4	835.4	954.1	950.1	871.8	787.8	679.7
67.5°	204.2	602.2	588.4	587.6	661.9	739.4	870.2	863.7	760.4	701.4	585.2
70°	184.0	488.4	519.0	511.8	544.0	641.7	774.1	769.3	652.2	562.6	517.4
72.5°	168.7	172.7	458.5	450.4	457.7	545.7	674.0	661.1	552.9	444.0	447.2
75°	144.5	151.8	158.2	380.2	370.5	452.0	565.0	544.9	456.1	366.5	373.7
77.5°	117.9	126.7	131.6	276.9	299.5	322.1	451.2	424.6	314.0	293.0	139.6
80°	88.0	95.2	103.3	110.6	227.6	225.2	335.0	308.3	218.7	182.4	109.0
82.5°	64.6	67.0	71.8	79.9	90.4	150.9	215.5	189.7	151.8	83.1	75.1
85°	40.4	43.6	46.0	48.4	54.9	90.4	106.5	84.8	63.8	50.9	47.6
87.5°	25.8	25.8	25.0	25.8	26.6	32.3	36.3	34.7	27.4	25.8	25.8
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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1754.8	1743.5	1743.5	1740.3	1742.7	1742.7	1741.9	1742.7	1748.4	1751.6	1757.3
5°	1754.0	1750.8	1758.1	1766.9	1777.4	1790.4	1793.6	1804.9	1815.4	1829.1	1843.6
7.5°	1764.5	1775.8	1789.5	1804.1	1825.1	1840.4	1854.1	1867.8	1877.5	1890.4	1898.5
10°	1779.9	1802.5	1825.9	1844.4	1867.0	1880.0	1888.8	1890.4	1876.7	1854.9	1837.2
12.5°	1801.7	1828.3	1850.1	1867.8	1878.3	1873.5	1847.7	1821.0	1805.7	1783.1	1751.6
15°	1820.2	1844.4	1867.0	1859.8	1831.5	1804.9	1784.7	1753.2	1722.5	1701.6	1687.8
17.5°	1828.3	1851.7	1843.6	1805.7	1779.1	1748.4	1707.2	1683.0	1662.8	1646.7	1638.6
20°	1833.1	1829.1	1785.5	1758.1	1706.4	1678.2	1651.5	1628.9	1613.6	1605.5	1603.9
22.5°	1820.2	1771.0	1733.8	1684.6	1646.7	1623.3	1602.3	1583.7	1573.2	1566.8	1562.7
25°	1777.4	1720.1	1665.2	1626.5	1594.2	1574.0	1557.9	1542.5	1529.6	1526.4	1518.3
27.5°	1717.7	1670.9	1598.2	1568.4	1540.1	1530.4	1512.7	1497.3	1486.0	1476.4	1450.5
30°	1668.5	1594.2	1541.7	1514.3	1497.3	1486.0	1465.9	1449.7	1430.3	1394.8	1380.3
32.5°	1607.9	1534.5	1484.4	1469.1	1448.1	1438.4	1415.8	1380.3	1350.4	1335.9	1335.1
35°	1529.6	1469.1	1432.8	1419.0	1402.1	1385.9	1339.1	1306.8	1292.3	1293.9	1306.0
37.5°	1464.2	1410.2	1386.8	1367.4	1348.0	1306.8	1267.3	1252.0	1256.0	1264.1	1269.7
40°	1398.1	1356.9	1330.3	1314.9	1271.3	1231.0	1210.0	1215.6	1222.9	1228.5	1235.8
42.5°	1333.5	1304.4	1277.8	1247.9	1188.2	1166.4	1171.2	1178.5	1185.0	1193.0	1200.3
45°	1272.1	1246.3	1215.6	1147.8	1118.0	1123.6	1130.9	1136.5	1146.2	1151.9	1159.1
47.5°	1214.0	1186.6	1132.5	1072.8	1069.5	1080.8	1087.3	1094.6	1101.8	1087.3	599.7
50°	1148.6	1120.4	1038.0	1015.4	1022.7	1033.2	1041.3	1048.5	933.9	371.3	285.7
52.5°	1084.1	1012.2	959.8	966.2	973.5	985.6	991.2	736.2	293.0	279.3	280.1
55°	1012.2	920.2	904.9	912.9	919.4	931.5	617.5	270.4	268.8	268.0	274.4
57.5°	899.2	843.5	850.0	858.0	864.5	610.2	263.1	261.5	262.3	263.1	264.0
60°	798.3	786.2	793.5	800.7	566.6	254.3	249.4	250.2	253.5	251.0	244.6
62.5°	718.4	728.1	735.4	644.1	241.4	238.9	241.4	238.9	233.3	229.2	221.2
65°	657.1	666.7	672.4	226.8	226.0	229.2	226.8	218.7	209.9	198.6	196.1
67.5°	592.5	602.2	215.5	209.9	213.1	209.1	199.4	189.7	183.2	173.5	169.5
70°	525.5	225.2	195.3	194.5	188.9	182.4	171.9	162.2	154.2	150.1	146.1
72.5°	379.4	178.4	176.0	169.5	159.8	150.9	142.1	136.4	132.4	130.0	127.5
75°	158.2	155.0	147.7	136.4	126.7	122.7	116.2	112.2	110.6	105.7	104.1
77.5°	132.4	125.9	115.4	107.4	101.7	99.3	94.4	89.6	87.2	86.4	83.1
80°	101.7	92.8	88.0	83.9	82.3	76.7	71.0	68.6	67.0	66.2	63.8
82.5°	69.4	66.2	63.0	57.3	57.3	54.9	52.5	50.9	49.2	49.2	47.6
85°	45.2	42.8	42.0	39.6	39.6	37.9	37.1	36.3	35.5	34.7	33.9
87.5°	25.8	25.8	26.6	25.8	25.8	25.0	24.2	23.4	22.6	22.6	21.0
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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CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1764.5	1772.6	1774.2	1801.7	1817.0	1816.2	1811.3	1825.9	1817.0	1812.1	1817.0
5°	1858.2	1867.8	1875.9	1905.8	1916.3	1921.1	1920.3	1928.4	1921.9	1916.3	1916.3
7.5°	1904.2	1907.4	1910.6	1903.4	1898.5	1890.4	1878.3	1860.6	1851.7	1842.0	1829.9
10°	1828.3	1817.8	1821.8	1807.3	1795.2	1786.3	1775.0	1760.5	1748.4	1739.5	1725.8
12.5°	1735.5	1734.7	1736.3	1738.7	1726.6	1719.3	1710.4	1699.9	1691.1	1681.4	1670.1
15°	1679.0	1679.8	1686.2	1683.8	1679.8	1675.7	1666.0	1662.8	1654.7	1644.3	1637.8
17.5°	1638.6	1642.6	1649.1	1645.9	1639.4	1635.4	1628.1	1620.8	1613.6	1605.5	1595.8
20°	1603.1	1607.1	1611.2	1607.1	1595.0	1589.4	1579.7	1557.1	1540.9	1524.8	1510.3
22.5°	1564.3	1566.8	1563.5	1550.6	1519.9	1505.4	1494.1	1487.7	1473.9	1465.1	1456.2
25°	1515.9	1502.2	1481.2	1466.7	1454.6	1448.1	1443.3	1442.5	1440.8	1439.2	1435.2
27.5°	1436.8	1432.0	1420.7	1415.0	1415.8	1418.2	1419.0	1421.5	1419.0	1415.8	1412.6
30°	1377.9	1380.3	1381.1	1382.7	1386.8	1389.2	1390.0	1393.2	1391.6	1389.2	1387.6
32.5°	1340.7	1346.4	1349.6	1354.5	1356.9	1360.9	1360.9	1365.8	1360.9	1360.1	1358.5
35°	1310.1	1314.9	1316.5	1323.8	1326.2	1330.3	1330.3	1334.3	1330.3	1289.1	1017.9
37.5°	1279.4	1284.2	1287.5	1293.9	1294.7	1297.2	1197.1	875.8	565.0	437.5	334.2
40°	1243.1	1248.7	1252.0	1254.4	881.5	559.4	385.0	313.2	313.2	315.6	318.0
42.5°	1204.3	1208.4	841.9	490.0	305.1	304.3	306.7	309.2	311.6	314.8	318.0
45°	946.8	477.9	303.5	296.2	298.7	301.9	305.1	308.3	312.4	315.6	317.2
47.5°	310.8	291.4	295.4	292.2	296.2	300.3	303.5	306.7	307.5	308.3	307.5
50°	287.4	287.4	289.8	289.8	293.0	294.6	294.6	294.6	291.4	290.6	288.2
52.5°	277.7	284.1	280.9	282.5	280.9	278.5	276.1	273.6	268.8	267.2	264.0
55°	272.8	275.3	267.2	264.8	261.5	255.1	251.8	248.6	244.6	243.0	238.9
57.5°	261.5	255.9	247.0	243.0	237.3	230.9	227.6	225.2	221.2	219.6	217.1
60°	240.5	229.2	223.6	218.7	212.3	206.6	204.2	202.6	199.4	198.6	196.1
62.5°	214.7	205.0	200.2	193.7	188.9	185.7	183.2	182.4	179.2	179.2	177.6
65°	186.5	181.6	177.6	171.1	168.7	165.5	164.7	163.9	162.2	161.4	159.8
67.5°	163.9	160.6	155.0	151.8	150.1	147.7	146.1	144.5	141.3	139.6	137.2
70°	143.7	141.3	135.6	133.2	130.0	125.9	123.5	121.9	119.5	117.9	115.4
72.5°	124.3	117.0	113.0	110.6	108.2	104.1	103.3	101.7	99.3	98.5	96.1
75°	100.1	94.4	92.0	90.4	88.0	85.6	85.6	85.6	83.1	82.3	81.5
77.5°	79.9	76.7	75.1	73.5	72.6	71.0	68.6	67.8	65.4	65.4	64.6
80°	61.3	59.7	58.1	57.3	56.5	54.9	53.3	52.5	50.0	50.0	49.2
82.5°	45.2	44.4	43.6	42.8	42.0	41.2	38.7	37.9	36.3	36.3	35.5
85°	32.3	31.5	29.9	29.1	29.1	28.3	25.8	25.0	23.4	23.4	23.4
87.5°	20.2	19.4	18.6	17.8	17.0	16.1	14.5	13.7	13.7	12.1	11.3
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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1807.3	1821.0	1819.4	1829.1	1831.5	1836.4	1838.0	1838.8	1826.7	1836.4	1837.2
5°	1913.9	1916.3	1917.9	1921.9	1926.0	1926.8	1922.7	1917.9	1919.5	1916.3	1908.2
7.5°	1828.3	1816.2	1813.8	1810.5	1808.9	1807.3	1800.0	1806.5	1799.2	1796.0	1784.7
10°	1723.4	1712.1	1711.2	1711.2	1713.7	1712.9	1711.2	1708.0	1714.5	1710.4	1708.0
12.5°	1668.5	1664.4	1666.9	1665.2	1671.7	1673.3	1671.7	1671.7	1670.1	1666.9	1668.5
15°	1635.4	1632.1	1634.6	1632.1	1637.0	1637.8	1633.8	1636.2	1632.1	1628.1	1626.5
17.5°	1591.8	1584.5	1578.9	1570.8	1571.6	1570.0	1565.1	1565.1	1561.1	1550.6	1551.4
20°	1507.8	1500.6	1497.3	1497.3	1501.4	1503.0	1502.2	1503.8	1499.8	1498.1	1491.7
22.5°	1455.4	1454.6	1456.2	1460.2	1466.7	1475.5	1476.4	1476.4	1476.4	1475.5	1467.5
25°	1436.8	1436.8	1438.4	1444.1	1448.9	1455.4	1457.0	1458.6	1457.0	1457.0	1449.7
27.5°	1415.8	1414.2	1417.4	1423.1	1428.7	1433.6	1437.6	1438.4	1436.0	1436.0	1438.4
30°	1390.0	1389.2	1393.2	1398.9	1403.7	1408.6	1412.6	1415.8	1412.6	1412.6	1410.2
32.5°	1363.3	1363.3	1365.0	1331.1	1234.2	1111.5	1113.9	1042.9	993.7	931.5	1013.8
35°	850.8	619.1	531.9	450.4	393.1	356.0	355.2	343.1	337.4	333.4	332.6
37.5°	321.3	322.9	326.1	327.7	330.1	331.8	332.6	332.6	332.6	332.6	331.8
40°	320.5	323.7	326.1	328.5	330.9	332.6	332.6	333.4	334.2	334.2	334.2
42.5°	321.3	324.5	327.7	330.1	331.8	332.6	333.4	334.2	334.2	334.2	334.2
45°	320.5	322.1	322.1	322.9	322.9	322.9	323.7	323.7	322.9	322.1	323.7
47.5°	308.3	308.3	305.9	305.1	304.3	302.7	303.5	302.7	301.9	301.1	302.7
50°	287.4	284.1	282.5	280.9	280.1	278.5	279.3	278.5	277.7	276.1	278.5
52.5°	262.3	261.5	258.3	256.7	255.9	256.7	255.1	254.3	253.5	252.7	253.5
55°	238.1	234.9	234.1	232.5	231.7	232.5	231.7	230.9	230.0	229.2	230.0
57.5°	216.3	213.9	213.1	211.5	211.5	211.5	211.5	210.7	209.9	209.1	209.9
60°	195.3	193.7	192.9	192.9	192.1	192.1	192.1	191.3	190.5	190.5	191.3
62.5°	177.6	177.6	175.2	174.4	174.4	175.2	174.4	173.5	172.7	171.9	173.5
65°	159.0	155.8	155.0	153.4	151.8	152.6	151.8	150.9	150.1	149.3	150.9
67.5°	136.4	135.6	132.4	130.8	130.0	130.8	130.0	129.2	128.3	127.5	129.2
70°	114.6	114.6	111.4	110.6	109.8	109.8	109.0	109.0	108.2	107.4	109.0
72.5°	95.2	95.2	94.4	92.8	92.0	91.2	90.4	89.6	89.6	90.4	90.4
75°	79.1	77.5	74.3	75.1	74.3	73.5	73.5	72.6	71.8	73.5	72.6
77.5°	62.2	61.3	58.9	59.7	58.9	58.1	58.1	57.3	56.5	57.3	57.3
80°	46.8	46.8	46.0	45.2	45.2	44.4	43.6	43.6	42.8	43.6	43.6
82.5°	33.9	33.9	33.1	32.3	31.5	31.5	30.7	30.7	30.7	30.7	30.7
85°	21.8	21.0	21.0	19.4	19.4	19.4	18.6	18.6	18.6	18.6	18.6
87.5°	10.5	10.5	9.7	9.7	8.9	8.1	8.1	7.3	7.3	8.1	8.1
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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1822.6	1833.1	1824.3	1828.3	1829.1	1842.8	1842.0	1845.2	1839.6	1833.1	1824.3
5°	1915.5	1910.6	1904.2	1919.5	1911.4	1921.1	1924.3	1930.8	1930.8	1930.0	1922.7
7.5°	1796.8	1786.3	1794.4	1800.0	1802.5	1796.0	1808.9	1823.4	1835.6	1842.8	1843.6
10°	1704.0	1707.2	1706.4	1708.8	1714.5	1713.7	1721.7	1729.8	1733.0	1737.9	1739.5
12.5°	1660.4	1659.6	1661.2	1666.9	1670.1	1669.3	1677.3	1682.2	1683.8	1684.6	1683.8
15°	1625.7	1620.0	1624.1	1624.9	1627.3	1627.3	1637.0	1644.3	1647.5	1649.1	1647.5
17.5°	1560.3	1546.6	1559.5	1559.5	1568.4	1566.8	1582.1	1594.2	1600.7	1605.5	1605.5
20°	1495.7	1489.3	1494.1	1492.5	1499.0	1498.1	1507.8	1515.9	1521.6	1525.6	1530.4
22.5°	1469.9	1471.5	1464.2	1465.1	1465.1	1464.2	1469.1	1473.1	1474.7	1477.2	1475.5
25°	1452.9	1454.6	1452.1	1448.1	1446.5	1448.1	1450.5	1455.4	1456.2	1454.6	1448.9
27.5°	1436.0	1431.2	1435.2	1427.9	1426.3	1429.5	1432.8	1433.6	1434.4	1434.4	1429.5
30°	1410.2	1406.1	1410.2	1406.9	1403.7	1406.9	1409.4	1409.4	1411.0	1411.8	1406.1
32.5°	985.6	993.7	1124.4	1203.5	1314.9	1371.4	1381.9	1381.9	1383.5	1383.5	1378.7
35°	335.8	336.6	364.0	394.7	460.1	540.8	646.6	701.4	887.1	1109.1	1323.8
37.5°	331.8	330.9	330.1	329.3	328.5	327.7	326.1	325.3	330.1	391.5	531.1
40°	333.4	332.6	330.9	330.1	329.3	327.7	326.9	325.3	323.7	322.1	320.5
42.5°	333.4	332.6	331.8	330.9	330.1	329.3	327.7	326.1	324.5	322.1	319.6
45°	322.1	322.1	322.9	322.9	323.7	323.7	323.7	322.9	322.9	322.1	318.8
47.5°	301.1	301.1	303.5	303.5	305.1	306.7	306.7	308.3	310.8	312.4	313.2
50°	276.9	276.9	279.3	280.1	281.7	284.1	286.6	287.4	289.8	293.0	296.2
52.5°	252.7	252.7	255.1	255.1	256.7	259.1	261.5	262.3	265.6	268.8	272.8
55°	230.0	230.0	231.7	232.5	233.3	234.9	237.3	237.3	240.5	243.0	247.0
57.5°	209.9	211.5	211.5	211.5	212.3	213.9	215.5	215.5	217.9	220.4	223.6
60°	190.5	192.1	192.1	192.1	192.9	193.7	195.3	195.3	197.0	198.6	201.8
62.5°	172.7	174.4	174.4	175.2	175.2	176.0	177.6	176.8	178.4	179.2	181.6
65°	150.1	151.8	152.6	153.4	154.2	155.8	158.2	157.4	159.8	161.4	163.9
67.5°	128.3	130.0	130.0	130.8	131.6	133.2	134.8	134.8	137.2	138.8	142.1
70°	108.2	109.8	109.8	110.6	111.4	113.0	114.6	113.8	116.2	117.9	120.3
72.5°	89.6	91.2	91.2	92.0	92.0	93.6	95.2	96.9	96.9	98.5	100.1
75°	72.6	73.5	74.3	74.3	75.1	75.9	77.5	79.1	79.9	80.7	82.3
77.5°	57.3	58.1	58.9	58.9	59.7	60.5	61.3	64.6	66.2	67.0	67.0
80°	43.6	44.4	44.4	44.4	45.2	46.0	47.6	47.6	50.9	50.9	51.7
82.5°	30.7	31.5	31.5	31.5	32.3	33.9	34.7	35.5	37.1	37.9	37.9
85°	18.6	19.4	19.4	19.4	20.2	21.0	22.6	23.4	24.2	24.2	25.0
87.5°	7.3	8.1	8.9	8.9	9.7	10.5	11.3	12.1	12.9	12.9	13.7
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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1814.6	1820.2	1814.6	1817.8	1821.8	1814.6	1797.6	1791.2	1788.7	1779.1	1772.6
5°	1915.5	1915.5	1913.0	1919.5	1918.7	1907.4	1889.6	1881.6	1873.5	1863.0	1854.9
7.5°	1843.6	1850.1	1854.1	1879.1	1895.3	1896.9	1908.2	1910.6	1913.9	1910.6	1905.8
10°	1740.3	1737.9	1749.2	1772.6	1786.3	1793.6	1815.4	1825.9	1834.7	1852.5	1871.1
12.5°	1682.2	1685.4	1690.3	1707.2	1720.1	1716.9	1725.8	1733.0	1743.5	1761.3	1787.9
15°	1643.4	1646.7	1651.5	1664.4	1672.5	1668.5	1673.3	1678.2	1685.4	1694.3	1710.4
17.5°	1601.5	1607.1	1612.8	1626.5	1633.8	1632.9	1637.0	1638.6	1641.0	1646.7	1658.0
20°	1536.1	1553.8	1565.1	1583.7	1594.2	1592.6	1599.9	1602.3	1605.5	1611.2	1616.0
22.5°	1476.4	1481.2	1486.8	1507.0	1524.8	1546.6	1551.4	1557.9	1566.0	1571.6	1576.4
25°	1442.5	1439.2	1441.6	1455.4	1465.1	1466.7	1473.9	1494.9	1516.7	1526.4	1537.7
27.5°	1422.3	1419.0	1418.2	1424.7	1426.3	1422.3	1420.7	1427.1	1443.3	1459.4	1493.3
30°	1400.5	1396.4	1393.2	1398.9	1401.3	1395.6	1385.1	1379.5	1389.2	1393.2	1406.9
32.5°	1374.6	1370.6	1369.0	1372.2	1373.8	1369.0	1357.7	1351.2	1349.6	1346.4	1349.6
35°	1345.6	1341.6	1339.1	1339.9	1343.2	1339.1	1329.4	1321.4	1317.3	1308.5	1302.0
37.5°	693.4	982.4	1275.4	1306.0	1309.3	1308.5	1298.8	1289.9	1285.9	1275.4	1272.1
40°	317.2	354.4	531.9	695.0	1002.5	1273.7	1264.9	1256.0	1248.7	1245.5	1233.4
42.5°	316.4	317.2	318.0	314.0	389.1	662.7	978.3	1221.3	1216.4	1208.4	1199.5
45°	316.4	312.4	315.6	310.8	312.4	311.6	388.3	626.4	1114.7	1164.8	1160.7
47.5°	313.2	310.8	314.0	310.0	305.1	307.5	304.3	308.3	481.1	816.1	1118.0
50°	298.7	300.3	305.9	305.1	301.1	304.3	298.7	303.5	299.5	328.5	632.8
52.5°	276.9	280.1	285.7	290.6	292.2	296.2	294.6	296.2	293.0	293.8	294.6
55°	251.0	255.1	259.9	267.2	270.4	276.9	281.7	284.1	288.2	287.4	280.9
57.5°	226.8	230.9	234.9	242.2	249.4	252.7	261.5	266.4	276.9	274.4	272.8
60°	204.2	207.4	211.5	213.1	222.0	227.6	235.7	240.5	254.3	257.5	262.3
62.5°	184.0	185.7	188.9	191.3	197.0	202.6	206.6	214.7	222.0	232.5	239.7
65°	165.5	167.1	169.5	171.1	171.9	180.0	182.4	191.3	193.7	205.0	211.5
67.5°	144.5	147.7	150.9	152.6	154.2	159.0	160.6	164.7	170.3	175.2	183.2
70°	122.7	125.1	128.3	130.8	134.0	137.2	142.1	144.5	148.5	151.8	158.2
72.5°	102.5	104.9	106.5	109.0	111.4	113.8	117.9	123.5	126.7	132.4	134.0
75°	83.1	85.6	87.2	88.8	91.2	92.8	94.4	100.1	103.3	108.2	113.0
77.5°	68.6	68.6	70.2	75.1	74.3	74.3	75.9	79.1	81.5	84.8	89.6
80°	53.3	54.1	54.9	58.9	59.7	60.5	59.7	62.2	64.6	65.4	68.6
82.5°	39.6	40.4	40.4	42.8	45.2	45.2	45.2	46.0	48.4	49.2	50.9
85°	26.6	27.4	28.3	29.1	30.7	31.5	32.3	32.3	33.9	34.7	35.5
87.5°	14.5	16.1	17.0	17.8	18.6	19.4	20.2	21.0	21.8	22.6	23.4
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1770.2	1766.1	1763.7	1757.3	1755.6	1745.1	1746.8	1745.1	1745.1	1747.6	1755.6
5°	1846.0	1826.7	1821.8	1808.1	1796.8	1777.4	1765.3	1758.9	1749.2	1745.1	1750.8
7.5°	1897.7	1883.2	1871.1	1859.0	1842.8	1820.2	1803.3	1783.9	1767.8	1752.4	1748.4
10°	1888.8	1905.0	1905.0	1897.7	1882.4	1859.8	1839.6	1815.4	1787.1	1762.9	1748.4
12.5°	1813.8	1842.0	1864.6	1881.6	1896.9	1881.6	1861.4	1842.0	1810.5	1775.0	1748.4
15°	1731.4	1760.5	1788.7	1824.3	1861.4	1876.7	1875.9	1853.3	1825.1	1787.9	1750.8
17.5°	1673.3	1693.5	1708.8	1747.6	1792.8	1832.3	1859.0	1860.6	1833.1	1800.0	1751.6
20°	1629.7	1644.3	1657.2	1679.0	1718.5	1766.9	1816.2	1843.6	1838.8	1802.5	1754.0
22.5°	1590.2	1600.7	1611.2	1627.3	1658.8	1690.3	1747.6	1804.1	1828.3	1798.4	1751.6
25°	1550.6	1561.9	1570.0	1581.3	1606.3	1632.1	1672.5	1742.7	1796.8	1795.2	1746.8
27.5°	1503.8	1519.1	1528.8	1544.2	1561.1	1580.5	1607.9	1674.1	1751.6	1779.1	1733.8
30°	1447.3	1469.9	1484.4	1501.4	1515.9	1532.9	1554.7	1595.0	1691.1	1747.6	1720.1
32.5°	1365.8	1406.1	1438.4	1454.6	1470.7	1485.2	1504.6	1538.5	1616.8	1704.8	1704.8
35°	1307.7	1326.2	1355.3	1402.1	1422.3	1436.8	1454.6	1481.2	1531.2	1653.9	1679.8
37.5°	1262.4	1269.7	1284.2	1330.3	1368.2	1391.6	1409.4	1426.3	1475.5	1584.5	1647.5
40°	1228.5	1226.1	1224.5	1246.3	1300.4	1337.5	1357.7	1374.6	1412.6	1501.4	1604.7
42.5°	1189.0	1186.6	1178.5	1184.2	1210.8	1272.9	1303.6	1322.2	1353.7	1414.2	1557.9
45°	1147.8	1143.8	1140.6	1134.9	1144.6	1179.3	1242.3	1269.7	1287.5	1341.6	1499.0
47.5°	1105.9	1100.2	1096.2	1091.3	1085.7	1101.8	1161.5	1210.8	1241.5	1275.4	1427.9
50°	1046.1	1053.4	1048.5	1042.9	1038.0	1034.8	1059.8	1140.6	1178.5	1205.9	1341.6
52.5°	493.2	958.9	999.3	993.7	987.2	981.5	987.2	1048.5	1117.2	1138.9	1237.4
55°	280.9	427.0	888.7	939.6	933.9	925.8	921.0	942.0	1044.5	1073.6	1142.2
57.5°	270.4	271.2	392.3	846.7	878.2	871.0	865.3	870.2	957.3	1006.6	1059.0
60°	261.5	261.5	261.5	374.5	809.6	812.0	804.8	796.7	834.6	931.5	975.1
62.5°	242.2	247.0	249.4	249.4	369.7	749.9	742.6	740.2	741.8	841.1	891.1
65°	217.1	228.4	233.3	236.5	236.5	388.3	678.8	674.8	669.2	707.1	806.4
67.5°	189.7	201.0	211.5	217.9	218.7	226.0	405.2	607.8	599.7	600.6	716.0
70°	161.4	171.1	182.4	192.1	201.0	205.0	211.5	504.5	531.1	519.8	613.5
72.5°	139.6	143.7	151.8	161.4	171.9	181.6	187.3	201.0	460.9	448.8	466.6
75°	116.2	119.5	125.1	131.6	139.6	150.9	160.6	170.3	244.6	376.2	373.7
77.5°	90.4	96.1	102.5	106.5	110.6	118.7	131.6	141.3	150.9	254.3	299.5
80°	69.4	73.5	76.7	80.7	85.6	91.2	96.1	107.4	118.7	127.5	229.2
82.5°	51.7	54.1	56.5	58.1	59.7	63.0	71.8	75.9	83.1	91.2	108.2
85°	36.3	37.9	39.6	40.4	41.2	42.0	45.2	46.0	53.3	54.9	65.4
87.5°	23.4	24.2	25.8	26.6	26.6	27.4	28.3	28.3	28.3	26.6	32.3
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: P1214108

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1761.3	1761.3
2.5°	1762.1	1775.0
5°	1759.7	1776.6
7.5°	1753.2	1769.4
10°	1743.5	1762.9
12.5°	1733.0	1751.6
15°	1724.2	1737.9
17.5°	1714.5	1722.5
20°	1701.6	1708.0
22.5°	1688.6	1685.4
25°	1674.1	1666.9
27.5°	1655.6	1641.8
30°	1638.6	1614.4
32.5°	1622.5	1582.9
35°	1600.7	1550.6
37.5°	1578.1	1517.5
40°	1551.4	1479.6
42.5°	1523.2	1441.6
45°	1487.7	1405.3
47.5°	1456.2	1361.7
50°	1412.6	1314.9
52.5°	1359.3	1271.3
55°	1296.4	1218.1
57.5°	1228.5	1162.4
60°	1155.9	1098.6
62.5°	1067.9	1032.4
65°	964.6	956.5
67.5°	829.8	872.6
70°	680.5	776.5
72.5°	569.1	674.8
75°	466.6	561.0
77.5°	369.7	439.9
80°	230.9	322.1
82.5°	155.0	211.5
85°	93.6	100.9
87.5°	36.3	37.1
90°	0.0	0.0

(END OF REPORT)