

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: P1213073

Luminaire Tested: 4SNLED-LD5-43SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213073
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-LD5-43SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

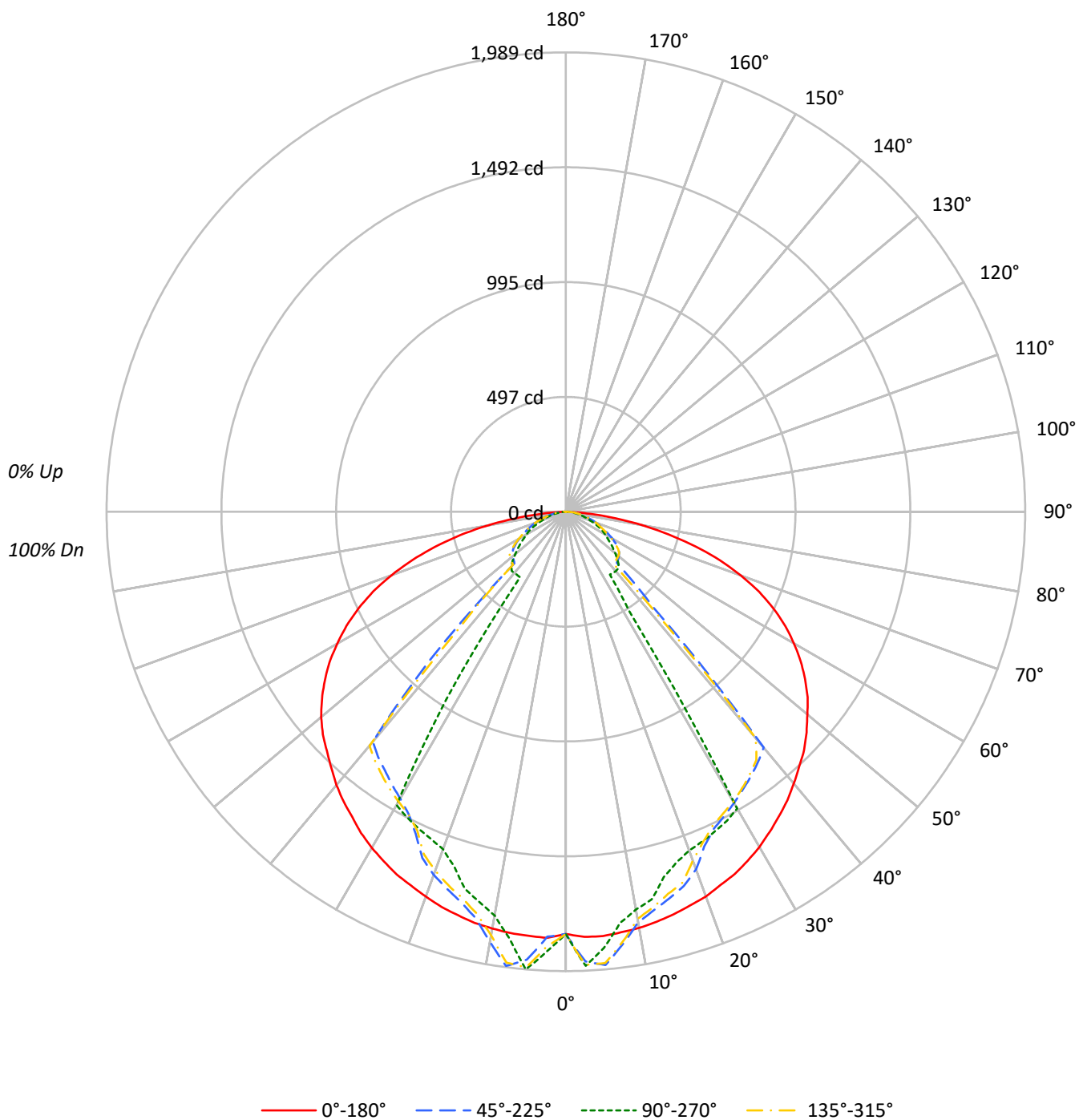
Lumens per Lamp: N/A
Luminaire Lumens: 3661.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
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
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°	14774	14774	14774	14774
5°	14918	14885	14912	15622
10°	14933	13458	14954	13664
15°	14966	12451	15001	12847
20°	15075	11810	15075	11766
25°	15206	11584	15228	11476
30°	15359	11379	15398	11245
35°	15538	2592	15571	2703
40°	15787	2695	15882	2783
45°	16165	2681	16221	2778
50°	16543	2423	16766	2489
55°	17051	2152	17188	2183
60°	17483	1912	17522	1936
65°	17793	1668	17747	1642
70°	17538	1345	17483	1296
75°	16282	1035	16399	991
80°	13215	735	13745	672
85°	7153	440	7556	338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 17914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	4.9
10°-20°	494.6	13.5
20°-30°	732.6	20.0
30°-40°	738.1	20.2
40°-50°	576.6	15.7
50°-60°	445.4	12.2
60°-70°	299.0	8.2
70°-80°	152.5	4.2
80°-90°	42.4	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°	1407.0	38.4
0°-40°	2145.1	58.6
0°-60°	3167.0	86.5
0°-90°	3661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1828	1828	1828	1828	1828	
5°	1844	1895	1843	1989	1844	175
15°	1804	1638	1808	1690	1804	510
25°	1730	1527	1733	1512	1730	798
35°	1610	332	1613	346	1610	1009
45°	1459	323	1464	334	1459	1125
55°	1264	235	1274	238	1264	1129
65°	993	158	990	155	993	976
75°	582	80	586	76	582	609
85°	105	25	111	19	105	144
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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1842.5	1849.2	1854.2	1857.5	1859.2	1859.2	1860.0	1860.9	1871.8	1876.8	1880.2
5°	1844.1	1850.8	1860.9	1874.3	1886.0	1896.1	1904.5	1916.2	1927.9	1940.5	1944.7
7.5°	1836.6	1845.0	1865.1	1889.4	1912.0	1927.9	1938.8	1946.3	1952.2	1953.1	1957.2
10°	1829.9	1845.0	1872.6	1904.5	1932.9	1952.2	1952.2	1948.0	1953.9	1931.3	1908.6
12.5°	1818.2	1834.9	1872.6	1914.5	1941.3	1948.9	1945.5	1928.8	1894.4	1866.8	1854.2
15°	1803.9	1826.5	1873.5	1920.4	1943.0	1945.5	1913.7	1870.9	1845.0	1828.2	1807.3
17.5°	1788.0	1818.2	1874.3	1921.2	1929.6	1917.9	1857.5	1830.7	1803.9	1764.5	1736.0
20°	1772.9	1802.2	1867.6	1909.5	1914.5	1861.7	1814.8	1786.3	1741.1	1706.7	1694.2
22.5°	1749.5	1783.8	1861.7	1893.6	1874.3	1813.1	1767.9	1722.6	1681.6	1671.5	1656.4
25°	1730.2	1766.2	1848.3	1874.3	1823.2	1768.7	1715.9	1663.2	1643.9	1629.6	1616.2
27.5°	1704.2	1748.6	1830.7	1839.1	1768.7	1721.0	1643.9	1620.4	1602.8	1586.9	1581.0
30°	1675.7	1730.2	1806.4	1790.5	1723.5	1653.1	1596.1	1574.3	1561.8	1545.0	1538.3
32.5°	1643.0	1702.5	1779.6	1734.4	1674.9	1586.9	1550.0	1533.3	1516.5	1504.0	1462.1
35°	1609.5	1678.2	1747.8	1680.7	1616.2	1536.6	1504.0	1488.9	1473.0	1426.9	1383.3
37.5°	1575.2	1651.4	1709.2	1622.9	1538.3	1484.7	1457.0	1440.3	1404.3	1345.6	1323.8
40°	1535.8	1618.7	1659.8	1563.4	1470.4	1431.9	1405.9	1389.2	1307.9	1281.9	1275.2
42.5°	1496.4	1586.9	1599.5	1505.6	1414.3	1375.8	1354.0	1298.7	1243.4	1230.0	1232.5
45°	1458.7	1552.6	1533.3	1423.5	1355.7	1323.8	1287.0	1210.7	1181.4	1188.1	1189.8
47.5°	1413.5	1511.5	1463.7	1341.4	1295.3	1263.5	1181.4	1135.3	1131.1	1140.3	1145.4
50°	1364.9	1465.4	1390.0	1266.8	1230.0	1192.3	1099.3	1075.8	1080.8	1090.1	1095.9
52.5°	1319.6	1413.5	1313.8	1197.3	1165.5	1079.2	1016.3	1020.5	1028.9	1039.8	1043.1
55°	1264.3	1350.6	1232.5	1126.9	1096.8	983.6	955.2	965.2	973.6	982.8	989.5
57.5°	1206.5	1278.6	1136.1	1048.2	999.6	899.0	901.5	908.2	914.1	925.0	382.1
60°	1140.3	1196.5	1030.6	975.3	878.9	832.0	834.5	846.2	852.1	475.9	263.1
62.5°	1071.6	1100.9	935.1	892.3	768.3	765.0	776.7	781.7	532.0	251.4	246.3
65°	992.9	987.0	841.2	773.3	692.9	696.3	708.8	683.7	235.4	235.4	233.8
67.5°	905.7	870.5	749.9	640.1	620.0	627.6	641.0	223.7	217.8	219.5	213.7
70°	806.0	756.6	655.2	542.1	548.8	556.3	216.2	202.8	200.2	196.1	184.3
72.5°	700.5	632.6	536.2	470.9	475.1	298.3	189.4	182.7	174.3	165.9	153.3
75°	582.3	494.3	393.8	393.8	399.7	170.1	165.1	154.2	144.9	134.1	126.5
77.5°	456.6	380.4	305.8	317.5	155.0	142.4	133.2	121.5	113.9	107.2	103.1
80°	334.3	265.6	230.4	206.1	120.7	108.1	98.9	92.2	88.8	84.6	79.6
82.5°	219.5	160.0	160.0	97.2	84.6	74.6	72.1	67.0	63.7	61.2	58.7
85°	104.7	93.0	70.4	59.5	52.8	47.8	46.1	43.6	43.6	42.7	41.9
87.5°	38.5	41.9	31.0	30.2	28.5	27.6	28.5	28.5	29.3	28.5	27.6
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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1888.5	1895.2	1900.3	1908.6	1919.5	1928.8	1937.1	1948.9	1967.3	1972.3	1976.5
5°	1944.7	1947.2	1953.1	1959.8	1961.4	1965.6	1964.8	1969.8	1972.3	1978.2	1965.6
7.5°	1948.0	1934.6	1918.7	1904.5	1894.4	1885.2	1879.3	1888.5	1893.6	1897.8	1885.2
10°	1877.6	1861.7	1852.5	1844.1	1834.1	1819.8	1800.6	1804.7	1803.1	1803.1	1798.9
12.5°	1833.2	1810.6	1787.2	1766.2	1757.0	1756.2	1757.0	1766.2	1766.2	1765.4	1760.3
15°	1763.7	1741.9	1730.2	1725.2	1725.2	1722.6	1722.6	1732.7	1730.2	1730.2	1727.7
17.5°	1717.6	1702.5	1694.2	1688.3	1685.8	1690.0	1695.0	1699.2	1700.0	1696.7	1683.3
20°	1679.9	1665.7	1655.6	1657.3	1656.4	1659.0	1661.5	1647.2	1629.6	1606.2	1595.3
22.5°	1640.5	1629.6	1622.1	1622.1	1612.0	1596.1	1572.7	1567.6	1565.1	1554.2	1545.0
25°	1602.8	1590.3	1579.4	1545.9	1524.9	1527.4	1523.2	1514.8	1514.0	1513.2	1516.5
27.5°	1565.1	1532.4	1490.6	1485.5	1477.1	1476.3	1481.3	1485.5	1485.5	1488.9	1493.1
30°	1487.2	1449.5	1442.0	1432.7	1436.1	1447.8	1450.3	1456.2	1457.9	1463.7	1467.1
32.5°	1416.0	1399.2	1392.5	1396.7	1407.6	1417.7	1423.5	1426.0	1430.2	1435.3	1439.4
35°	1358.2	1353.1	1359.0	1368.2	1379.1	1387.5	1392.5	1397.5	1401.7	1405.9	1409.3
37.5°	1315.4	1318.8	1327.2	1338.9	1349.8	1356.5	1360.7	1366.5	1372.4	1377.4	1357.3
40°	1275.2	1283.6	1292.8	1305.4	1314.6	1321.3	1325.5	1333.0	1282.8	580.6	318.4
42.5°	1240.0	1249.2	1256.0	1266.0	1276.1	1281.1	1244.2	555.5	314.2	312.5	316.7
45°	1197.3	1204.8	1215.7	1223.3	1232.5	809.4	309.2	312.5	307.5	310.8	312.5
47.5°	1153.7	1165.5	1171.3	1117.7	332.6	307.5	304.1	307.5	304.1	308.3	305.8
50°	1104.3	1118.5	796.0	300.8	298.3	296.6	300.0	298.3	300.8	304.1	297.4
52.5°	1054.0	652.7	291.6	289.9	291.6	289.9	295.8	291.6	292.4	289.1	280.7
55°	356.9	282.4	279.8	279.0	284.0	284.0	284.0	277.3	273.1	264.8	258.9
57.5°	273.1	273.1	272.3	273.1	271.5	269.8	262.2	256.4	250.5	238.8	235.4
60°	258.9	258.9	258.9	258.9	251.4	248.0	236.3	231.2	221.2	215.3	212.0
62.5°	247.2	245.5	238.0	235.4	227.1	217.8	211.1	206.1	196.1	192.7	190.2
65°	230.4	224.5	215.3	205.3	201.1	191.0	187.7	180.1	175.1	172.6	170.9
67.5°	202.8	194.4	186.8	180.1	172.6	169.2	165.1	159.2	155.8	154.2	152.5
70°	173.4	167.6	160.0	155.8	150.8	148.3	142.4	140.8	138.2	135.7	133.2
72.5°	144.9	141.6	138.2	132.4	130.7	129.0	123.2	119.8	116.5	113.1	111.4
75°	121.5	119.0	117.3	112.3	109.8	104.7	100.5	98.0	95.5	93.0	91.3
77.5°	99.7	98.0	93.0	89.7	88.0	83.8	82.1	82.9	81.3	77.9	76.2
80°	77.9	76.2	72.1	72.1	70.4	68.7	67.0	65.4	63.7	61.2	59.5
82.5°	59.5	57.8	56.1	54.5	52.8	51.9	51.1	49.4	47.8	46.1	45.2
85°	41.9	41.1	40.2	39.4	38.5	37.7	36.9	35.2	33.5	32.7	31.8
87.5°	28.5	27.6	26.8	26.0	25.1	24.3	23.5	22.6	20.9	20.1	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1976.5	1980.7	1976.5	1967.3	1961.4	1958.9	1963.9	1963.9	1967.3	1971.5	1972.3
5°	1945.5	1935.5	1923.7	1912.0	1906.1	1902.8	1893.6	1895.2	1897.8	1899.4	1901.1
7.5°	1868.4	1855.0	1839.1	1824.0	1818.2	1813.1	1802.2	1802.2	1802.2	1803.1	1808.1
10°	1789.7	1783.8	1777.1	1767.0	1759.5	1757.0	1747.8	1750.3	1748.6	1751.1	1757.0
12.5°	1752.8	1746.1	1740.2	1730.2	1721.8	1718.4	1714.3	1716.8	1715.9	1720.1	1725.2
15°	1719.3	1715.9	1709.2	1701.7	1694.2	1687.4	1672.4	1667.3	1664.0	1659.8	1665.7
17.5°	1664.0	1640.5	1624.6	1612.9	1604.5	1598.6	1594.4	1594.4	1597.0	1599.5	1604.5
20°	1588.6	1581.9	1574.3	1561.8	1553.4	1550.0	1547.5	1547.5	1551.7	1555.1	1564.3
22.5°	1536.6	1535.8	1533.3	1527.4	1523.2	1523.2	1524.1	1525.7	1531.6	1536.6	1545.9
25°	1512.3	1515.7	1514.0	1510.7	1508.1	1509.0	1507.3	1509.0	1514.8	1519.9	1527.4
27.5°	1493.1	1498.1	1496.4	1491.4	1487.2	1488.9	1491.4	1489.7	1494.7	1500.6	1506.5
30°	1467.1	1467.9	1471.3	1465.4	1463.7	1466.3	1467.1	1468.8	1473.8	1478.0	1483.0
32.5°	1437.8	1444.5	1443.6	1437.8	1437.8	1440.3	1441.1	1385.0	1280.2	1102.6	1054.0
35°	1409.3	1416.8	1404.3	1183.9	819.4	437.4	337.7	325.9	328.4	330.1	331.8
37.5°	1042.3	494.3	315.0	317.5	320.1	322.6	325.1	327.6	330.1	332.6	333.5
40°	313.4	312.5	315.0	318.4	320.9	322.6	325.9	328.4	331.0	333.5	334.3
42.5°	310.0	311.7	314.2	317.5	320.9	324.3	326.8	330.1	331.8	333.5	334.3
45°	308.3	311.7	315.0	317.5	320.1	321.7	323.4	324.3	323.4	323.4	325.1
47.5°	305.8	309.2	310.0	309.2	310.0	309.2	309.2	309.2	306.7	305.8	305.8
50°	296.6	296.6	294.9	291.6	290.7	289.9	288.2	287.4	284.0	283.2	283.2
52.5°	277.3	276.5	274.0	269.8	268.1	266.4	265.6	264.8	261.4	259.7	260.6
55°	254.7	253.0	250.5	245.5	244.7	243.0	242.1	241.3	238.0	239.6	237.1
57.5°	233.8	230.4	227.1	226.2	222.9	222.0	221.2	220.4	217.8	218.7	217.0
60°	208.6	207.8	206.1	202.8	202.8	201.9	201.9	200.2	198.6	197.7	197.7
62.5°	190.2	187.7	186.0	186.0	183.5	183.5	183.5	181.8	180.1	181.0	180.1
65°	170.1	169.2	168.4	166.7	166.7	165.9	165.9	164.2	161.7	162.5	160.9
67.5°	153.3	151.7	150.0	149.1	145.8	144.1	143.3	142.4	139.1	139.9	138.2
70°	132.4	129.9	128.2	126.5	124.0	122.3	122.3	120.7	118.1	119.0	117.3
72.5°	110.6	108.9	107.2	106.4	103.9	103.1	102.2	101.4	98.9	99.7	98.9
75°	92.2	92.2	91.3	90.5	88.0	85.5	83.8	82.9	81.3	82.1	80.4
77.5°	76.2	74.6	72.9	72.9	70.4	68.7	67.0	67.0	67.0	66.2	65.4
80°	59.5	57.8	57.8	57.0	55.3	53.6	52.8	52.8	51.9	51.9	51.1
82.5°	45.2	43.6	42.7	42.7	41.1	40.2	39.4	38.5	38.5	38.5	37.7
85°	31.8	30.2	29.3	29.3	27.6	26.8	26.8	26.0	26.0	25.1	25.1
87.5°	19.3	18.4	17.6	17.6	15.9	15.1	15.1	15.1	14.2	14.2	13.4
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1972.3	1972.3	1966.5	1968.1	1965.6	1969.0	1964.8	1964.8	1969.8	1969.8	1973.2
5°	1901.9	1897.8	1896.9	1895.2	1886.9	1890.2	1886.0	1881.8	1887.7	1887.7	1895.2
7.5°	1805.6	1798.0	1801.4	1796.4	1791.3	1783.8	1786.3	1783.0	1787.2	1793.0	1800.6
10°	1756.2	1749.5	1753.6	1748.6	1751.1	1740.2	1741.1	1741.9	1746.1	1747.8	1754.5
12.5°	1724.3	1722.6	1721.0	1719.3	1721.0	1715.1	1711.7	1712.6	1714.3	1715.1	1720.1
15°	1657.3	1646.4	1649.7	1638.0	1638.9	1639.7	1633.0	1639.7	1638.9	1649.7	1659.8
17.5°	1602.8	1602.8	1597.0	1591.9	1588.6	1587.7	1582.7	1586.1	1582.7	1589.4	1591.9
20°	1565.1	1564.3	1563.4	1560.9	1552.6	1553.4	1555.9	1548.4	1547.5	1546.7	1551.7
22.5°	1547.5	1548.4	1545.0	1545.0	1537.5	1539.1	1540.0	1531.6	1532.4	1529.9	1532.4
25°	1529.1	1530.8	1526.6	1526.6	1524.9	1524.1	1519.9	1521.6	1516.5	1512.3	1516.5
27.5°	1507.3	1510.7	1507.3	1509.0	1505.6	1504.0	1501.4	1499.8	1494.7	1493.9	1496.4
30°	1487.2	1488.9	1488.0	1483.8	1483.0	1478.0	1480.5	1475.5	1470.4	1471.3	1473.0
32.5°	762.5	728.1	561.4	506.9	501.9	520.3	616.7	750.7	972.8	1188.1	1343.1
35°	332.6	332.6	332.6	331.8	331.8	331.0	330.1	329.3	328.4	327.6	326.8
37.5°	334.3	334.3	334.3	334.3	333.5	332.6	332.6	331.0	330.1	329.3	328.4
40°	335.1	336.0	336.0	336.0	335.1	335.1	334.3	332.6	331.8	330.1	328.4
42.5°	334.3	335.1	335.1	334.3	334.3	333.5	333.5	332.6	331.8	331.0	330.1
45°	323.4	324.3	322.6	322.6	321.7	321.7	321.7	321.7	321.7	322.6	322.6
47.5°	304.1	304.1	303.3	302.5	302.5	301.6	302.5	301.6	303.3	304.1	305.8
50°	281.5	281.5	279.8	279.0	279.0	279.0	279.0	279.8	280.7	282.4	284.0
52.5°	258.1	258.1	257.2	256.4	255.5	255.5	258.1	257.2	258.1	258.9	261.4
55°	235.4	236.3	234.6	234.6	233.8	233.8	233.8	234.6	235.4	236.3	238.8
57.5°	216.2	216.2	214.5	214.5	214.5	213.7	216.2	214.5	215.3	216.2	217.8
60°	196.9	196.1	196.1	195.2	195.2	195.2	196.9	196.1	196.1	196.9	198.6
62.5°	179.3	179.3	178.5	178.5	177.6	177.6	179.3	178.5	178.5	179.3	180.1
65°	159.2	159.2	158.4	157.5	160.0	157.5	160.0	158.4	160.0	160.9	162.5
67.5°	136.6	136.6	136.6	135.7	135.7	137.4	138.2	136.6	137.4	139.1	139.9
70°	116.5	116.5	115.6	115.6	115.6	117.3	118.1	116.5	117.3	118.1	119.8
72.5°	98.9	97.2	97.2	96.4	98.0	98.0	98.9	98.0	98.9	98.9	100.5
75°	81.3	79.6	79.6	79.6	81.3	80.4	81.3	80.4	81.3	81.3	82.1
77.5°	65.4	64.5	63.7	63.7	65.4	65.4	65.4	64.5	65.4	66.2	67.0
80°	51.1	50.3	49.4	49.4	51.1	51.1	51.1	51.9	51.1	51.9	52.8
82.5°	37.7	36.9	36.0	37.7	37.7	37.7	37.7	38.5	37.7	38.5	39.4
85°	25.1	24.3	23.5	25.1	25.1	25.1	25.1	26.0	25.1	26.0	26.8
87.5°	13.4	12.6	12.6	13.4	13.4	13.4	14.2	14.2	14.2	15.1	15.1
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1978.2	1980.7	1979.9	1974.8	1969.8	1963.9	1959.8	1960.6	1969.0	1971.5	1963.9
5°	1895.2	1911.2	1911.2	1922.0	1916.2	1911.2	1914.5	1932.9	1942.2	1956.4	1961.4
7.5°	1809.8	1817.3	1816.5	1827.4	1825.7	1825.7	1828.2	1852.5	1864.2	1876.0	1879.3
10°	1762.0	1769.6	1768.7	1769.6	1767.0	1761.2	1761.2	1772.1	1782.1	1788.0	1789.7
12.5°	1727.7	1731.9	1731.0	1731.0	1729.3	1724.3	1723.5	1732.7	1743.6	1751.1	1752.0
15°	1676.6	1688.3	1690.8	1701.7	1699.2	1692.5	1694.2	1701.7	1708.4	1715.1	1712.6
17.5°	1600.3	1606.2	1607.0	1611.2	1609.5	1609.5	1619.6	1647.2	1665.7	1681.6	1683.3
20°	1556.7	1560.9	1559.3	1568.5	1564.3	1563.4	1566.0	1577.7	1586.1	1593.6	1607.0
22.5°	1535.8	1539.1	1536.6	1537.5	1529.9	1523.2	1521.6	1530.8	1540.0	1550.0	1550.0
25°	1518.2	1520.7	1519.9	1518.2	1512.3	1503.1	1501.4	1503.1	1506.5	1507.3	1501.4
27.5°	1497.3	1498.9	1498.9	1499.8	1492.2	1483.8	1482.2	1480.5	1483.8	1483.0	1473.8
30°	1475.5	1473.0	1473.8	1474.6	1467.9	1460.4	1457.0	1456.2	1459.6	1458.7	1449.5
32.5°	1423.5	1442.8	1444.5	1446.1	1440.3	1433.6	1430.2	1427.7	1429.4	1428.6	1420.2
35°	325.9	331.8	406.4	920.0	1249.2	1383.3	1397.5	1394.2	1395.0	1395.0	1388.3
37.5°	326.8	325.9	325.1	322.6	320.1	318.4	550.5	1173.8	1359.8	1360.7	1354.8
40°	326.8	325.9	325.1	323.4	320.1	317.5	313.4	310.0	317.5	698.8	1278.6
42.5°	328.4	326.8	325.1	323.4	320.1	316.7	313.4	309.2	311.7	310.0	305.8
45°	323.4	322.6	322.6	321.7	320.1	316.7	312.5	307.5	305.0	307.5	303.3
47.5°	307.5	308.3	310.8	311.7	311.7	312.5	310.0	306.7	302.5	305.0	300.0
50°	285.7	287.4	288.2	292.4	294.1	297.4	298.3	298.3	297.4	300.8	297.4
52.5°	262.2	263.9	268.1	269.8	271.5	276.5	278.2	280.7	282.4	287.4	290.7
55°	239.6	240.5	242.1	245.5	248.0	252.2	254.7	257.2	261.4	263.9	274.0
57.5°	218.7	219.5	222.9	223.7	225.4	228.7	231.2	234.6	238.0	239.6	251.4
60°	198.6	199.4	201.9	202.8	203.6	207.0	209.5	212.0	214.5	216.2	224.5
62.5°	181.0	181.0	183.5	183.5	184.3	186.8	188.5	190.2	192.7	193.5	197.7
65°	163.4	164.2	165.9	165.9	166.7	168.4	169.2	170.1	172.6	172.6	176.0
67.5°	141.6	142.4	144.9	146.6	147.5	150.8	151.7	152.5	154.2	155.0	156.7
70°	120.7	121.5	124.0	124.8	125.7	128.2	129.9	132.4	134.9	137.4	139.1
72.5°	101.4	102.2	104.7	104.7	107.2	108.1	109.8	110.6	113.1	114.8	117.3
75°	82.9	83.8	86.3	86.3	88.8	89.7	90.5	91.3	93.0	94.7	96.4
77.5°	67.9	67.9	71.2	72.9	74.6	74.6	75.4	75.4	75.4	76.2	77.9
80°	53.6	53.6	56.1	57.8	59.5	59.5	60.3	61.2	62.0	62.0	62.8
82.5°	40.2	40.2	42.7	43.6	45.2	45.2	45.2	46.1	46.9	46.1	47.8
85°	27.6	27.6	29.3	30.2	31.8	31.8	31.8	32.7	33.5	32.7	33.5
87.5°	15.9	16.8	17.6	18.4	19.3	20.1	20.1	20.1	20.9	20.9	21.8
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1955.6	1945.5	1944.7	1932.9	1929.6	1930.4	1921.2	1917.9	1902.8	1899.4	1883.5
5°	1963.1	1968.1	1965.6	1964.8	1967.3	1965.6	1958.9	1955.6	1953.1	1946.3	1932.9
7.5°	1880.2	1883.5	1886.0	1896.9	1906.1	1922.0	1938.8	1949.7	1958.1	1959.8	1948.9
10°	1795.5	1811.5	1822.3	1839.1	1852.5	1861.7	1871.8	1881.0	1905.3	1929.6	1943.8
12.5°	1752.0	1756.2	1755.3	1764.5	1773.7	1798.0	1821.5	1834.9	1853.3	1864.2	1890.2
15°	1715.1	1715.9	1718.4	1725.2	1730.2	1738.6	1749.5	1769.6	1806.4	1823.2	1837.4
17.5°	1681.6	1681.6	1683.3	1689.1	1695.8	1703.4	1710.1	1718.4	1736.9	1764.5	1799.7
20°	1628.0	1651.4	1653.9	1653.1	1656.4	1670.7	1672.4	1687.4	1696.7	1707.6	1741.9
22.5°	1548.4	1562.6	1582.7	1613.7	1625.4	1632.2	1637.2	1643.9	1658.1	1670.7	1684.9
25°	1504.8	1514.0	1519.9	1529.1	1553.4	1592.8	1600.3	1607.9	1617.1	1626.3	1643.9
27.5°	1466.3	1465.4	1469.6	1478.0	1484.7	1505.6	1542.5	1571.8	1573.5	1586.9	1602.0
30°	1438.6	1433.6	1427.7	1426.0	1435.3	1446.1	1457.0	1503.1	1535.0	1541.7	1557.6
32.5°	1412.6	1404.3	1395.9	1389.2	1383.3	1392.5	1399.2	1419.3	1460.4	1498.9	1507.3
35°	1380.8	1372.4	1362.4	1354.8	1345.6	1344.8	1343.9	1363.2	1376.6	1422.7	1462.9
37.5°	1348.1	1338.9	1330.5	1322.1	1312.9	1306.2	1302.0	1307.1	1319.6	1339.7	1406.8
40°	1313.8	1302.9	1294.5	1287.8	1275.2	1270.2	1261.8	1258.5	1259.3	1276.9	1312.1
42.5°	785.1	1251.8	1256.0	1248.4	1237.5	1230.8	1221.6	1217.4	1209.0	1217.4	1237.5
45°	302.5	305.8	915.8	1209.9	1196.5	1188.1	1179.7	1175.5	1166.3	1159.6	1178.0
47.5°	296.6	300.0	293.3	415.6	1142.0	1144.5	1134.5	1130.3	1121.1	1116.0	1111.0
50°	292.4	294.9	289.9	291.6	285.7	1046.5	1088.4	1083.4	1073.3	1067.4	1057.4
52.5°	288.2	288.2	284.9	280.7	279.0	279.8	880.6	1035.6	1023.9	1018.0	1004.6
55°	274.8	276.5	279.8	273.1	271.5	270.6	268.1	838.7	969.4	962.7	951.0
57.5°	254.7	258.1	267.3	265.6	265.6	258.9	257.2	257.2	778.4	906.6	894.8
60°	231.2	234.6	244.7	248.0	250.5	248.8	247.2	246.3	243.0	820.3	835.3
62.5°	207.0	210.3	213.7	224.5	227.9	232.1	237.1	234.6	231.2	231.2	772.5
65°	181.0	186.0	187.7	197.7	201.9	209.5	213.7	219.5	217.8	217.0	221.2
67.5°	158.4	164.2	165.1	169.2	176.8	180.1	185.2	196.1	201.1	202.8	204.4
70°	139.1	142.4	144.9	146.6	151.7	152.5	161.7	169.2	176.8	185.2	187.7
72.5°	119.8	122.3	127.4	125.7	127.4	130.7	135.7	140.8	148.3	160.0	167.6
75°	98.0	99.7	103.1	104.7	108.1	110.6	113.9	118.1	124.8	130.7	140.8
77.5°	78.8	79.6	82.1	82.9	86.3	88.8	94.7	97.2	101.4	105.6	111.4
80°	63.7	63.7	64.5	64.5	67.0	69.5	73.7	76.2	81.3	84.6	84.6
82.5°	48.6	48.6	51.1	51.1	52.8	52.8	55.3	55.3	57.8	59.5	61.2
85°	34.4	35.2	36.9	36.0	37.7	36.9	38.5	40.2	41.1	40.2	39.4
87.5°	22.6	22.6	24.3	23.5	24.3	24.3	26.0	26.0	26.8	26.8	26.0
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1877.6	1865.1	1857.5	1848.3	1845.8	1843.3	1846.6	1846.6	1841.6	1837.4	1829.9
5°	1921.2	1907.8	1893.6	1878.5	1864.2	1849.2	1843.3	1842.5	1833.2	1828.2	1825.7
7.5°	1943.8	1937.1	1921.2	1900.3	1878.5	1851.7	1839.9	1833.2	1824.0	1822.3	1822.3
10°	1946.3	1938.8	1930.4	1915.3	1890.2	1855.0	1832.4	1819.0	1810.6	1816.5	1827.4
12.5°	1922.0	1936.3	1928.8	1918.7	1898.6	1855.9	1823.2	1803.1	1800.6	1815.6	1844.1
15°	1860.0	1901.9	1922.9	1912.8	1896.9	1854.2	1808.1	1784.6	1784.6	1815.6	1852.5
17.5°	1813.1	1845.8	1896.9	1905.3	1886.9	1850.8	1793.9	1766.2	1773.7	1819.0	1858.4
20°	1774.6	1794.7	1844.1	1891.0	1873.5	1843.3	1772.9	1744.4	1759.5	1814.0	1866.8
22.5°	1714.3	1754.5	1784.6	1854.2	1860.0	1829.0	1752.0	1717.6	1747.8	1814.0	1862.6
25°	1655.6	1704.2	1736.0	1803.9	1839.9	1811.5	1732.7	1689.1	1735.2	1811.5	1859.2
27.5°	1614.6	1637.2	1695.0	1743.6	1809.8	1788.0	1706.7	1658.1	1719.3	1798.0	1839.9
30°	1571.0	1586.1	1643.0	1689.1	1769.6	1761.2	1679.9	1623.8	1699.2	1785.5	1789.7
32.5°	1523.2	1540.0	1569.3	1636.3	1713.4	1736.0	1649.7	1589.4	1677.4	1766.2	1731.0
35°	1474.6	1487.2	1510.7	1582.7	1648.1	1698.3	1612.9	1550.0	1662.3	1736.9	1674.9
37.5°	1426.0	1439.4	1459.6	1519.9	1579.4	1663.2	1581.0	1510.7	1634.7	1684.9	1616.2
40°	1380.0	1387.5	1408.4	1446.1	1522.4	1627.1	1545.0	1469.6	1606.2	1618.7	1536.6
42.5°	1295.3	1333.0	1352.3	1382.5	1457.9	1577.7	1503.1	1426.0	1574.3	1552.6	1457.0
45°	1204.0	1286.1	1294.5	1324.7	1400.9	1524.9	1463.7	1383.3	1544.2	1495.6	1381.6
47.5°	1129.4	1188.9	1237.5	1262.7	1333.0	1462.9	1426.9	1347.3	1498.9	1423.5	1307.9
50°	1063.2	1095.1	1183.1	1201.5	1251.8	1388.3	1383.3	1305.4	1436.1	1333.0	1235.8
52.5°	998.7	1021.4	1100.9	1140.3	1181.4	1307.9	1331.4	1264.3	1367.4	1242.5	1162.9
55°	942.6	950.1	993.7	1076.6	1113.5	1226.6	1274.4	1216.6	1280.2	1156.2	1092.6
57.5°	884.8	878.1	909.9	1016.3	1043.1	1143.7	1214.1	1168.0	1209.9	1068.3	1019.7
60°	824.5	815.2	828.6	899.0	968.6	1061.6	1142.8	1114.4	1124.4	981.1	938.4
62.5°	761.6	752.4	748.2	792.6	895.7	976.9	1070.8	1054.9	1019.7	901.5	837.9
65°	696.3	687.0	680.3	697.9	815.2	867.2	990.3	986.2	904.9	817.8	705.5
67.5°	212.0	625.0	610.8	610.0	687.0	767.5	903.2	896.5	789.3	728.1	607.4
70°	191.0	506.9	538.7	531.2	564.7	666.1	803.5	798.5	677.0	584.0	537.1
72.5°	175.1	179.3	475.9	467.5	475.1	566.4	699.6	686.2	573.9	460.8	464.2
75°	150.0	157.5	164.2	394.6	384.6	469.2	586.5	565.6	473.4	380.4	387.9
77.5°	122.3	131.5	136.6	287.4	310.8	334.3	468.4	440.7	325.9	304.1	144.9
80°	91.3	98.9	107.2	114.8	236.3	233.8	347.7	320.1	227.1	189.4	113.1
82.5°	67.0	69.5	74.6	82.9	93.8	156.7	223.7	196.9	157.5	86.3	77.9
85°	41.9	45.2	47.8	50.3	57.0	93.8	110.6	88.0	66.2	52.8	49.4
87.5°	26.8	26.8	26.0	26.8	27.6	33.5	37.7	36.0	28.5	26.8	26.8
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1821.5	1809.8	1809.8	1806.4	1808.9	1808.9	1808.1	1808.9	1814.8	1818.2	1824.0
5°	1820.7	1817.3	1824.9	1834.1	1845.0	1858.4	1861.7	1873.5	1884.3	1898.6	1913.7
7.5°	1831.6	1843.3	1857.5	1872.6	1894.4	1910.3	1924.6	1938.8	1948.9	1962.3	1970.6
10°	1847.5	1870.9	1895.2	1914.5	1938.0	1951.4	1960.6	1962.3	1948.0	1925.4	1907.0
12.5°	1870.1	1897.8	1920.4	1938.8	1949.7	1944.7	1917.9	1890.2	1874.3	1850.8	1818.2
15°	1889.4	1914.5	1938.0	1930.4	1901.1	1873.5	1852.5	1819.8	1788.0	1766.2	1752.0
17.5°	1897.8	1922.0	1913.7	1874.3	1846.6	1814.8	1772.1	1746.9	1726.0	1709.2	1700.9
20°	1902.8	1898.6	1853.3	1824.9	1771.2	1741.9	1714.3	1690.8	1674.9	1666.5	1664.8
22.5°	1889.4	1838.3	1799.7	1748.6	1709.2	1684.9	1663.2	1643.9	1633.0	1626.3	1622.1
25°	1845.0	1785.5	1728.5	1688.3	1654.8	1633.8	1617.1	1601.1	1587.7	1584.4	1576.0
27.5°	1783.0	1734.4	1659.0	1628.0	1598.6	1588.6	1570.1	1554.2	1542.5	1532.4	1505.6
30°	1731.9	1654.8	1600.3	1571.8	1554.2	1542.5	1521.6	1504.8	1484.7	1447.8	1432.7
32.5°	1669.0	1592.8	1540.8	1524.9	1503.1	1493.1	1469.6	1432.7	1401.7	1386.7	1385.8
35°	1587.7	1524.9	1487.2	1473.0	1455.4	1438.6	1390.0	1356.5	1341.4	1343.1	1355.7
37.5°	1519.9	1463.7	1439.4	1419.3	1399.2	1356.5	1315.4	1299.5	1303.7	1312.1	1318.0
40°	1451.2	1408.4	1380.8	1364.9	1319.6	1277.7	1256.0	1261.8	1269.4	1275.2	1282.8
42.5°	1384.1	1354.0	1326.3	1295.3	1233.3	1210.7	1215.7	1223.3	1230.0	1238.4	1245.9
45°	1320.5	1293.7	1261.8	1191.4	1160.4	1166.3	1173.8	1179.7	1189.8	1195.6	1203.2
47.5°	1260.1	1231.7	1175.5	1113.5	1110.2	1121.9	1128.6	1136.1	1143.7	1128.6	622.5
50°	1192.3	1162.9	1077.5	1054.0	1061.6	1072.5	1080.8	1088.4	969.4	385.4	296.6
52.5°	1125.2	1050.7	996.2	1002.9	1010.5	1023.0	1028.9	764.1	304.1	289.9	290.7
55°	1050.7	955.2	939.2	947.6	954.3	966.9	641.0	280.7	279.0	278.2	284.9
57.5°	933.4	875.6	882.3	890.6	897.3	633.4	273.1	271.5	272.3	273.1	274.0
60°	828.6	816.1	823.6	831.2	588.2	263.9	258.9	259.7	263.1	260.6	253.9
62.5°	745.7	755.7	763.3	668.6	250.5	248.0	250.5	248.0	242.1	238.0	229.6
65°	682.0	692.1	697.9	235.4	234.6	238.0	235.4	227.1	217.8	206.1	203.6
67.5°	615.0	625.0	223.7	217.8	221.2	217.0	207.0	196.9	190.2	180.1	176.0
70°	545.4	233.8	202.8	201.9	196.1	189.4	178.5	168.4	160.0	155.8	151.7
72.5°	393.8	185.2	182.7	176.0	165.9	156.7	147.5	141.6	137.4	134.9	132.4
75°	164.2	160.9	153.3	141.6	131.5	127.4	120.7	116.5	114.8	109.8	108.1
77.5°	137.4	130.7	119.8	111.4	105.6	103.1	98.0	93.0	90.5	89.7	86.3
80°	105.6	96.4	91.3	87.1	85.5	79.6	73.7	71.2	69.5	68.7	66.2
82.5°	72.1	68.7	65.4	59.5	59.5	57.0	54.5	52.8	51.1	51.1	49.4
85°	46.9	44.4	43.6	41.1	41.1	39.4	38.5	37.7	36.9	36.0	35.2
87.5°	26.8	26.8	27.6	26.8	26.8	26.0	25.1	24.3	23.5	23.5	21.8
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1831.6	1839.9	1841.6	1870.1	1886.0	1885.2	1880.2	1895.2	1886.0	1881.0	1886.0
5°	1928.8	1938.8	1947.2	1978.2	1989.1	1994.1	1993.3	2001.6	1994.9	1989.1	1989.1
7.5°	1976.5	1979.9	1983.2	1975.7	1970.6	1962.3	1949.7	1931.3	1922.0	1912.0	1899.4
10°	1897.8	1886.9	1891.0	1876.0	1863.4	1854.2	1842.5	1827.4	1814.8	1805.6	1791.3
12.5°	1801.4	1800.6	1802.2	1804.7	1792.2	1784.6	1775.4	1764.5	1755.3	1745.3	1733.5
15°	1742.7	1743.6	1750.3	1747.8	1743.6	1739.4	1729.3	1726.0	1717.6	1706.7	1700.0
17.5°	1700.9	1705.0	1711.7	1708.4	1701.7	1697.5	1690.0	1682.4	1674.9	1666.5	1656.4
20°	1664.0	1668.2	1672.4	1668.2	1655.6	1649.7	1639.7	1616.2	1599.5	1582.7	1567.6
22.5°	1623.8	1626.3	1622.9	1609.5	1577.7	1562.6	1550.9	1544.2	1529.9	1520.7	1511.5
25°	1573.5	1559.3	1537.5	1522.4	1509.8	1503.1	1498.1	1497.3	1495.6	1493.9	1489.7
27.5°	1491.4	1486.4	1474.6	1468.8	1469.6	1472.1	1473.0	1475.5	1473.0	1469.6	1466.3
30°	1430.2	1432.7	1433.6	1435.3	1439.4	1442.0	1442.8	1446.1	1444.5	1442.0	1440.3
32.5°	1391.7	1397.5	1400.9	1405.9	1408.4	1412.6	1412.6	1417.7	1412.6	1411.8	1410.1
35°	1359.8	1364.9	1366.5	1374.1	1376.6	1380.8	1380.8	1385.0	1380.8	1338.1	1056.5
37.5°	1328.0	1333.0	1336.4	1343.1	1343.9	1346.4	1242.5	909.1	586.5	454.1	346.9
40°	1290.3	1296.2	1299.5	1302.0	914.9	580.6	399.7	325.1	325.1	327.6	330.1
42.5°	1250.1	1254.3	873.9	508.6	316.7	315.9	318.4	320.9	323.4	326.8	330.1
45°	982.8	496.0	315.0	307.5	310.0	313.4	316.7	320.1	324.3	327.6	329.3
47.5°	322.6	302.5	306.7	303.3	307.5	311.7	315.0	318.4	319.2	320.1	319.2
50°	298.3	298.3	300.8	300.8	304.1	305.8	305.8	305.8	302.5	301.6	299.1
52.5°	288.2	294.9	291.6	293.3	291.6	289.1	286.5	284.0	279.0	277.3	274.0
55°	283.2	285.7	277.3	274.8	271.5	264.8	261.4	258.1	253.9	252.2	248.0
57.5°	271.5	265.6	256.4	252.2	246.3	239.6	236.3	233.8	229.6	227.9	225.4
60°	249.7	238.0	232.1	227.1	220.4	214.5	212.0	210.3	207.0	206.1	203.6
62.5°	222.9	212.8	207.8	201.1	196.1	192.7	190.2	189.4	186.0	186.0	184.3
65°	193.5	188.5	184.3	177.6	175.1	171.8	170.9	170.1	168.4	167.6	165.9
67.5°	170.1	166.7	160.9	157.5	155.8	153.3	151.7	150.0	146.6	144.9	142.4
70°	149.1	146.6	140.8	138.2	134.9	130.7	128.2	126.5	124.0	122.3	119.8
72.5°	129.0	121.5	117.3	114.8	112.3	108.1	107.2	105.6	103.1	102.2	99.7
75°	103.9	98.0	95.5	93.8	91.3	88.8	88.8	88.8	86.3	85.5	84.6
77.5°	82.9	79.6	77.9	76.2	75.4	73.7	71.2	70.4	67.9	67.9	67.0
80°	63.7	62.0	60.3	59.5	58.7	57.0	55.3	54.5	51.9	51.9	51.1
82.5°	46.9	46.1	45.2	44.4	43.6	42.7	40.2	39.4	37.7	37.7	36.9
85°	33.5	32.7	31.0	30.2	30.2	29.3	26.8	26.0	24.3	24.3	24.3
87.5°	20.9	20.1	19.3	18.4	17.6	16.8	15.1	14.2	14.2	12.6	11.7
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1876.0	1890.2	1888.5	1898.6	1901.1	1906.1	1907.8	1908.6	1896.1	1906.1	1907.0
5°	1986.6	1989.1	1990.8	1994.9	1999.1	2000.0	1995.8	1990.8	1992.4	1989.1	1980.7
7.5°	1897.8	1885.2	1882.7	1879.3	1877.6	1876.0	1868.4	1875.1	1867.6	1864.2	1852.5
10°	1788.8	1777.1	1776.3	1776.3	1778.8	1777.9	1776.3	1772.9	1779.6	1775.4	1772.9
12.5°	1731.9	1727.7	1730.2	1728.5	1735.2	1736.9	1735.2	1735.2	1733.5	1730.2	1731.9
15°	1697.5	1694.2	1696.7	1694.2	1699.2	1700.0	1695.8	1698.3	1694.2	1690.0	1688.3
17.5°	1652.3	1644.7	1638.9	1630.5	1631.3	1629.6	1624.6	1624.6	1620.4	1609.5	1610.4
20°	1565.1	1557.6	1554.2	1554.2	1558.4	1560.1	1559.3	1560.9	1556.7	1555.1	1548.4
22.5°	1510.7	1509.8	1511.5	1515.7	1522.4	1531.6	1532.4	1532.4	1532.4	1531.6	1523.2
25°	1491.4	1491.4	1493.1	1498.9	1504.0	1510.7	1512.3	1514.0	1512.3	1512.3	1504.8
27.5°	1469.6	1467.9	1471.3	1477.1	1483.0	1488.0	1492.2	1493.1	1490.6	1490.6	1493.1
30°	1442.8	1442.0	1446.1	1452.0	1457.0	1462.1	1466.3	1469.6	1466.3	1466.3	1463.7
32.5°	1415.1	1415.1	1416.8	1381.6	1281.1	1153.7	1156.2	1082.5	1031.4	966.9	1052.4
35°	883.1	642.6	552.1	467.5	408.0	369.5	368.7	356.1	350.2	346.0	345.2
37.5°	333.5	335.1	338.5	340.2	342.7	344.4	345.2	345.2	345.2	345.2	344.4
40°	332.6	336.0	338.5	341.0	343.5	345.2	345.2	346.0	346.9	346.9	346.9
42.5°	333.5	336.8	340.2	342.7	344.4	345.2	346.0	346.9	346.9	346.9	346.9
45°	332.6	334.3	334.3	335.1	335.1	335.1	336.0	336.0	335.1	334.3	336.0
47.5°	320.1	320.1	317.5	316.7	315.9	314.2	315.0	314.2	313.4	312.5	314.2
50°	298.3	294.9	293.3	291.6	290.7	289.1	289.9	289.1	288.2	286.5	289.1
52.5°	272.3	271.5	268.1	266.4	265.6	266.4	264.8	263.9	263.1	262.2	263.1
55°	247.2	243.8	243.0	241.3	240.5	241.3	240.5	239.6	238.8	238.0	238.8
57.5°	224.5	222.0	221.2	219.5	219.5	219.5	219.5	218.7	217.8	217.0	217.8
60°	202.8	201.1	200.2	200.2	199.4	199.4	199.4	198.6	197.7	197.7	198.6
62.5°	184.3	184.3	181.8	181.0	181.0	181.8	181.0	180.1	179.3	178.5	180.1
65°	165.1	161.7	160.9	159.2	157.5	158.4	157.5	156.7	155.8	155.0	156.7
67.5°	141.6	140.8	137.4	135.7	134.9	135.7	134.9	134.1	133.2	132.4	134.1
70°	119.0	119.0	115.6	114.8	113.9	113.9	113.1	113.1	112.3	111.4	113.1
72.5°	98.9	98.9	98.0	96.4	95.5	94.7	93.8	93.0	93.0	93.8	93.8
75°	82.1	80.4	77.1	77.9	77.1	76.2	76.2	75.4	74.6	76.2	75.4
77.5°	64.5	63.7	61.2	62.0	61.2	60.3	60.3	59.5	58.7	59.5	59.5
80°	48.6	48.6	47.8	46.9	46.9	46.1	45.2	45.2	44.4	45.2	45.2
82.5°	35.2	35.2	34.4	33.5	32.7	32.7	31.8	31.8	31.8	31.8	31.8
85°	22.6	21.8	21.8	20.1	20.1	20.1	19.3	19.3	19.3	19.3	19.3
87.5°	10.9	10.9	10.1	10.1	9.2	8.4	8.4	7.5	7.5	8.4	8.4
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1891.9	1902.8	1893.6	1897.8	1898.6	1912.8	1912.0	1915.3	1909.5	1902.8	1893.6
5°	1988.2	1983.2	1976.5	1992.4	1984.1	1994.1	1997.5	2004.2	2004.2	2003.3	1995.8
7.5°	1865.1	1854.2	1862.6	1868.4	1870.9	1864.2	1877.6	1892.7	1905.3	1912.8	1913.7
10°	1768.7	1772.1	1771.2	1773.7	1779.6	1778.8	1787.2	1795.5	1798.9	1803.9	1805.6
12.5°	1723.5	1722.6	1724.3	1730.2	1733.5	1732.7	1741.1	1746.1	1747.8	1748.6	1747.8
15°	1687.4	1681.6	1685.8	1686.6	1689.1	1689.1	1699.2	1706.7	1710.1	1711.7	1710.1
17.5°	1619.6	1605.3	1618.7	1618.7	1628.0	1626.3	1642.2	1654.8	1661.5	1666.5	1666.5
20°	1552.6	1545.9	1550.9	1549.2	1555.9	1555.1	1565.1	1573.5	1579.4	1583.6	1588.6
22.5°	1525.7	1527.4	1519.9	1520.7	1520.7	1519.9	1524.9	1529.1	1530.8	1533.3	1531.6
25°	1508.1	1509.8	1507.3	1503.1	1501.4	1503.1	1505.6	1510.7	1511.5	1509.8	1504.0
27.5°	1490.6	1485.5	1489.7	1482.2	1480.5	1483.8	1487.2	1488.0	1488.9	1488.9	1483.8
30°	1463.7	1459.6	1463.7	1460.4	1457.0	1460.4	1462.9	1462.9	1464.6	1465.4	1459.6
32.5°	1023.0	1031.4	1167.1	1249.2	1364.9	1423.5	1434.4	1434.4	1436.1	1436.1	1431.1
35°	348.5	349.4	377.9	409.7	477.6	561.4	671.1	728.1	920.8	1151.2	1374.1
37.5°	344.4	343.5	342.7	341.8	341.0	340.2	338.5	337.7	342.7	406.4	551.3
40°	346.0	345.2	343.5	342.7	341.8	340.2	339.3	337.7	336.0	334.3	332.6
42.5°	346.0	345.2	344.4	343.5	342.7	341.8	340.2	338.5	336.8	334.3	331.8
45°	334.3	334.3	335.1	335.1	336.0	336.0	336.0	335.1	335.1	334.3	331.0
47.5°	312.5	312.5	315.0	315.0	316.7	318.4	318.4	320.1	322.6	324.3	325.1
50°	287.4	287.4	289.9	290.7	292.4	294.9	297.4	298.3	300.8	304.1	307.5
52.5°	262.2	262.2	264.8	264.8	266.4	269.0	271.5	272.3	275.7	279.0	283.2
55°	238.8	238.8	240.5	241.3	242.1	243.8	246.3	246.3	249.7	252.2	256.4
57.5°	217.8	219.5	219.5	219.5	220.4	222.0	223.7	223.7	226.2	228.7	232.1
60°	197.7	199.4	199.4	199.4	200.2	201.1	202.8	202.8	204.4	206.1	209.5
62.5°	179.3	181.0	181.0	181.8	181.8	182.7	184.3	183.5	185.2	186.0	188.5
65°	155.8	157.5	158.4	159.2	160.0	161.7	164.2	163.4	165.9	167.6	170.1
67.5°	133.2	134.9	134.9	135.7	136.6	138.2	139.9	139.9	142.4	144.1	147.5
70°	112.3	113.9	113.9	114.8	115.6	117.3	119.0	118.1	120.7	122.3	124.8
72.5°	93.0	94.7	94.7	95.5	95.5	97.2	98.9	100.5	100.5	102.2	103.9
75°	75.4	76.2	77.1	77.1	77.9	78.8	80.4	82.1	82.9	83.8	85.5
77.5°	59.5	60.3	61.2	61.2	62.0	62.8	63.7	67.0	68.7	69.5	69.5
80°	45.2	46.1	46.1	46.1	46.9	47.8	49.4	49.4	52.8	52.8	53.6
82.5°	31.8	32.7	32.7	32.7	33.5	35.2	36.0	36.9	38.5	39.4	39.4
85°	19.3	20.1	20.1	20.1	20.9	21.8	23.5	24.3	25.1	25.1	26.0
87.5°	7.5	8.4	9.2	9.2	10.1	10.9	11.7	12.6	13.4	13.4	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1883.5	1889.4	1883.5	1886.9	1891.0	1883.5	1865.9	1859.2	1856.7	1846.6	1839.9
5°	1988.2	1988.2	1985.7	1992.4	1991.6	1979.9	1961.4	1953.1	1944.7	1933.8	1925.4
7.5°	1913.7	1920.4	1924.6	1950.5	1967.3	1969.0	1980.7	1983.2	1986.6	1983.2	1978.2
10°	1806.4	1803.9	1815.6	1839.9	1854.2	1861.7	1884.3	1895.2	1904.5	1922.9	1942.2
12.5°	1746.1	1749.5	1754.5	1772.1	1785.5	1782.1	1791.3	1798.9	1809.8	1828.2	1855.9
15°	1705.9	1709.2	1714.3	1727.7	1736.0	1731.9	1736.9	1741.9	1749.5	1758.7	1775.4
17.5°	1662.3	1668.2	1674.0	1688.3	1695.8	1695.0	1699.2	1700.9	1703.4	1709.2	1721.0
20°	1594.4	1612.9	1624.6	1643.9	1654.8	1653.1	1660.6	1663.2	1666.5	1672.4	1677.4
22.5°	1532.4	1537.5	1543.3	1564.3	1582.7	1605.3	1610.4	1617.1	1625.4	1631.3	1636.3
25°	1497.3	1493.9	1496.4	1510.7	1520.7	1522.4	1529.9	1551.7	1574.3	1584.4	1596.1
27.5°	1476.3	1473.0	1472.1	1478.8	1480.5	1476.3	1474.6	1481.3	1498.1	1514.8	1550.0
30°	1453.7	1449.5	1446.1	1452.0	1454.5	1448.7	1437.8	1431.9	1442.0	1446.1	1460.4
32.5°	1426.9	1422.7	1421.0	1424.4	1426.0	1421.0	1409.3	1402.6	1400.9	1397.5	1400.9
35°	1396.7	1392.5	1390.0	1390.8	1394.2	1390.0	1380.0	1371.6	1367.4	1358.2	1351.5
37.5°	719.7	1019.7	1323.8	1355.7	1359.0	1358.2	1348.1	1338.9	1334.7	1323.8	1320.5
40°	329.3	367.8	552.1	721.4	1040.6	1322.1	1312.9	1303.7	1296.2	1292.8	1280.2
42.5°	328.4	329.3	330.1	325.9	403.8	687.9	1015.5	1267.7	1262.7	1254.3	1245.1
45°	328.4	324.3	327.6	322.6	324.3	323.4	403.0	650.2	1157.1	1209.0	1204.8
47.5°	325.1	322.6	325.9	321.7	316.7	319.2	315.9	320.1	499.4	847.1	1160.4
50°	310.0	311.7	317.5	316.7	312.5	315.9	310.0	315.0	310.8	341.0	656.9
52.5°	287.4	290.7	296.6	301.6	303.3	307.5	305.8	307.5	304.1	305.0	305.8
55°	260.6	264.8	269.8	277.3	280.7	287.4	292.4	294.9	299.1	298.3	291.6
57.5°	235.4	239.6	243.8	251.4	258.9	262.2	271.5	276.5	287.4	284.9	283.2
60°	212.0	215.3	219.5	221.2	230.4	236.3	244.7	249.7	263.9	267.3	272.3
62.5°	191.0	192.7	196.1	198.6	204.4	210.3	214.5	222.9	230.4	241.3	248.8
65°	171.8	173.4	176.0	177.6	178.5	186.8	189.4	198.6	201.1	212.8	219.5
67.5°	150.0	153.3	156.7	158.4	160.0	165.1	166.7	170.9	176.8	181.8	190.2
70°	127.4	129.9	133.2	135.7	139.1	142.4	147.5	150.0	154.2	157.5	164.2
72.5°	106.4	108.9	110.6	113.1	115.6	118.1	122.3	128.2	131.5	137.4	139.1
75°	86.3	88.8	90.5	92.2	94.7	96.4	98.0	103.9	107.2	112.3	117.3
77.5°	71.2	71.2	72.9	77.9	77.1	77.1	78.8	82.1	84.6	88.0	93.0
80°	55.3	56.1	57.0	61.2	62.0	62.8	62.0	64.5	67.0	67.9	71.2
82.5°	41.1	41.9	41.9	44.4	46.9	46.9	46.9	47.8	50.3	51.1	52.8
85°	27.6	28.5	29.3	30.2	31.8	32.7	33.5	33.5	35.2	36.0	36.9
87.5°	15.1	16.8	17.6	18.4	19.3	20.1	20.9	21.8	22.6	23.5	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: P1213073

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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1837.4	1833.2	1830.7	1824.0	1822.3	1811.5	1813.1	1811.5	1811.5	1814.0	1822.3
5°	1916.2	1896.1	1891.0	1876.8	1865.1	1845.0	1832.4	1825.7	1815.6	1811.5	1817.3
7.5°	1969.8	1954.7	1942.2	1929.6	1912.8	1889.4	1871.8	1851.7	1834.9	1819.0	1814.8
10°	1960.6	1977.3	1977.3	1969.8	1953.9	1930.4	1909.5	1884.3	1855.0	1829.9	1814.8
12.5°	1882.7	1912.0	1935.5	1953.1	1969.0	1953.1	1932.1	1912.0	1879.3	1842.5	1814.8
15°	1797.2	1827.4	1856.7	1893.6	1932.1	1948.0	1947.2	1923.7	1894.4	1855.9	1817.3
17.5°	1736.9	1757.8	1773.7	1814.0	1860.9	1901.9	1929.6	1931.3	1902.8	1868.4	1818.2
20°	1691.6	1706.7	1720.1	1742.7	1783.8	1834.1	1885.2	1913.7	1908.6	1870.9	1820.7
22.5°	1650.6	1661.5	1672.4	1689.1	1721.8	1754.5	1814.0	1872.6	1897.8	1866.8	1818.2
25°	1609.5	1621.3	1629.6	1641.4	1667.3	1694.2	1736.0	1808.9	1865.1	1863.4	1813.1
27.5°	1560.9	1576.9	1586.9	1602.8	1620.4	1640.5	1669.0	1737.7	1818.2	1846.6	1799.7
30°	1502.3	1525.7	1540.8	1558.4	1573.5	1591.1	1613.7	1655.6	1755.3	1814.0	1785.5
32.5°	1417.7	1459.6	1493.1	1509.8	1526.6	1541.7	1561.8	1597.0	1678.2	1769.6	1769.6
35°	1357.3	1376.6	1406.8	1455.4	1476.3	1491.4	1509.8	1537.5	1589.4	1716.8	1743.6
37.5°	1310.4	1318.0	1333.0	1380.8	1420.2	1444.5	1462.9	1480.5	1531.6	1644.7	1710.1
40°	1275.2	1272.7	1271.0	1293.7	1349.8	1388.3	1409.3	1426.9	1466.3	1558.4	1665.7
42.5°	1234.2	1231.7	1223.3	1229.1	1256.8	1321.3	1353.1	1372.4	1405.1	1467.9	1617.1
45°	1191.4	1187.2	1183.9	1178.0	1188.1	1224.1	1289.5	1318.0	1336.4	1392.5	1555.9
47.5°	1147.9	1142.0	1137.8	1132.8	1126.9	1143.7	1205.7	1256.8	1288.6	1323.8	1482.2
50°	1085.9	1093.4	1088.4	1082.5	1077.5	1074.1	1100.1	1183.9	1223.3	1251.8	1392.5
52.5°	511.9	995.4	1037.3	1031.4	1024.7	1018.8	1024.7	1088.4	1159.6	1182.2	1284.4
55°	291.6	443.2	922.5	975.3	969.4	961.0	956.0	977.8	1084.2	1114.4	1185.6
57.5°	280.7	281.5	407.2	878.9	911.6	904.1	898.2	903.2	993.7	1044.8	1099.3
60°	271.5	271.5	271.5	388.8	840.4	842.9	835.3	827.0	866.3	966.9	1012.1
62.5°	251.4	256.4	258.9	258.9	383.7	778.4	770.8	768.3	770.0	873.0	925.0
65°	225.4	237.1	242.1	245.5	245.5	403.0	704.6	700.5	694.6	734.0	837.0
67.5°	196.9	208.6	219.5	226.2	227.1	234.6	420.6	630.9	622.5	623.4	743.2
70°	167.6	177.6	189.4	199.4	208.6	212.8	219.5	523.7	551.3	539.6	636.8
72.5°	144.9	149.1	157.5	167.6	178.5	188.5	194.4	208.6	478.4	465.8	484.3
75°	120.7	124.0	129.9	136.6	144.9	156.7	166.7	176.8	253.9	390.4	387.9
77.5°	93.8	99.7	106.4	110.6	114.8	123.2	136.6	146.6	156.7	263.9	310.8
80°	72.1	76.2	79.6	83.8	88.8	94.7	99.7	111.4	123.2	132.4	238.0
82.5°	53.6	56.1	58.7	60.3	62.0	65.4	74.6	78.8	86.3	94.7	112.3
85°	37.7	39.4	41.1	41.9	42.7	43.6	46.9	47.8	55.3	57.0	67.9
87.5°	24.3	25.1	26.8	27.6	27.6	28.5	29.3	29.3	29.3	27.6	33.5
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: P1213073

CATALOG NUMBER: 4SNLED-LD5-43SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1828.2	1828.2
2.5°	1829.0	1842.5
5°	1826.5	1844.1
7.5°	1819.8	1836.6
10°	1809.8	1829.9
12.5°	1798.9	1818.2
15°	1789.7	1803.9
17.5°	1779.6	1788.0
20°	1766.2	1772.9
22.5°	1752.8	1749.5
25°	1737.7	1730.2
27.5°	1718.4	1704.2
30°	1700.9	1675.7
32.5°	1684.1	1643.0
35°	1661.5	1609.5
37.5°	1638.0	1575.2
40°	1610.4	1535.8
42.5°	1581.0	1496.4
45°	1544.2	1458.7
47.5°	1511.5	1413.5
50°	1466.3	1364.9
52.5°	1411.0	1319.6
55°	1345.6	1264.3
57.5°	1275.2	1206.5
60°	1199.8	1140.3
62.5°	1108.5	1071.6
65°	1001.2	992.9
67.5°	861.3	905.7
70°	706.3	806.0
72.5°	590.7	700.5
75°	484.3	582.3
77.5°	383.7	456.6
80°	239.6	334.3
82.5°	160.9	219.5
85°	97.2	104.7
87.5°	37.7	38.5
90°	0.0	0.0

(END OF REPORT)