

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: P1213766

Luminaire Tested: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213766
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

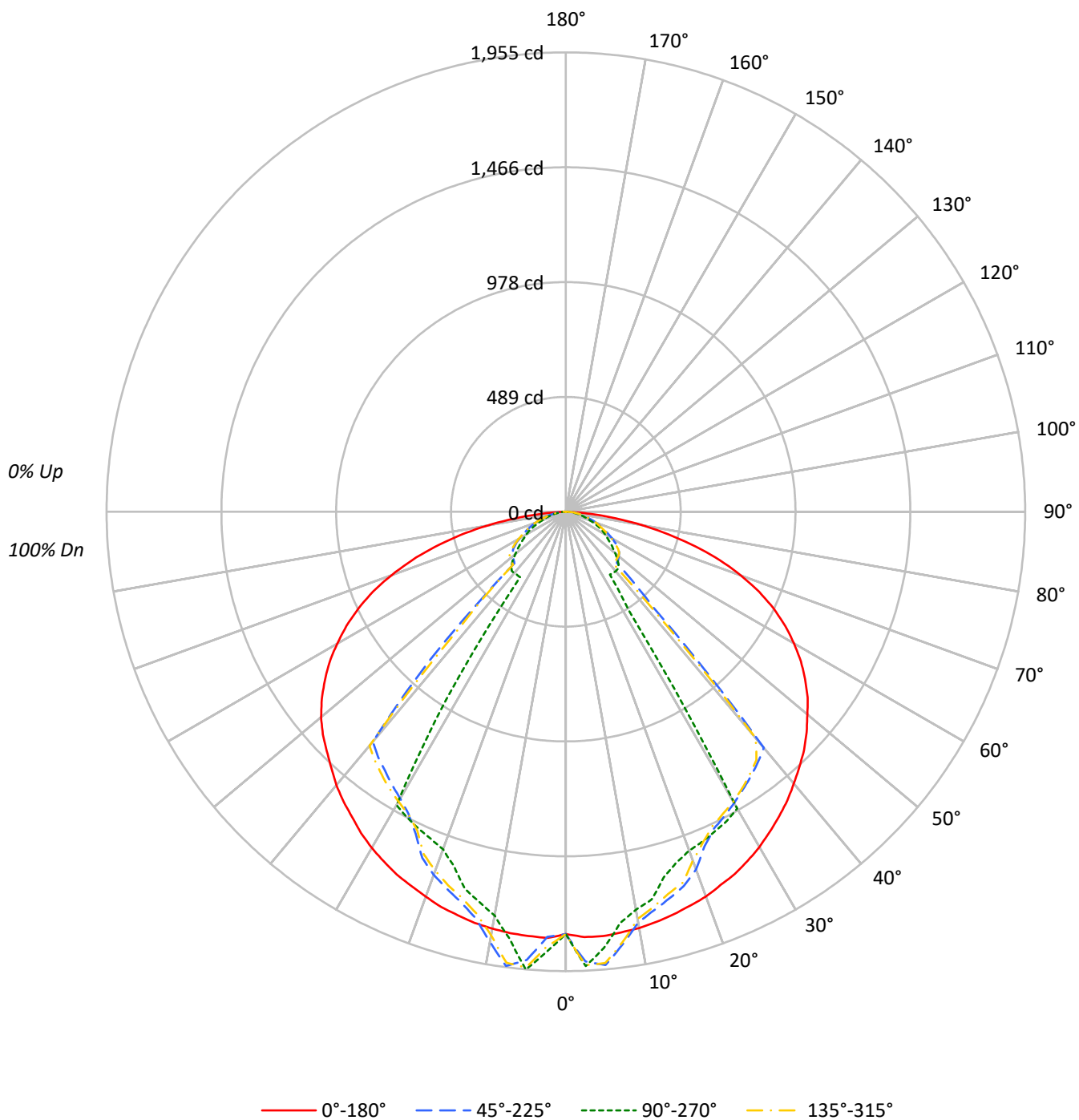
Lumens per Lamp: N/A
Luminaire Lumens: 3599.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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

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CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-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°	14523	14523	14523	14523
5°	14666	14633	14659	15358
10°	14680	13230	14701	13433
15°	14713	12241	14747	12628
20°	14820	11610	14820	11566
25°	14948	11388	14969	11281
30°	15099	11187	15137	11054
35°	15275	2548	15307	2658
40°	15520	2650	15612	2736
45°	15892	2635	15947	2730
50°	16263	2383	16483	2447
55°	16763	2115	16896	2145
60°	17187	1880	17226	1904
65°	17490	1640	17447	1614
70°	17242	1322	17188	1274
75°	16008	1017	16123	975
80°	12990	723	13512	662
85°	7037	433	7426	331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 17611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	4.9
10°-20°	486.2	13.5
20°-30°	720.1	20.0
30°-40°	725.6	20.2
40°-50°	566.8	15.7
50°-60°	437.8	12.2
60°-70°	293.9	8.2
70°-80°	149.9	4.2
80°-90°	41.7	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°	1383.2	38.4
0°-40°	2108.8	58.6
0°-60°	3113.4	86.5
0°-90°	3599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3599.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1797	1797	1797	1797	1797	
5°	1813	1863	1812	1955	1813	172
15°	1773	1610	1778	1661	1773	502
25°	1701	1501	1703	1487	1701	785
35°	1582	326	1586	340	1582	992
45°	1434	317	1439	329	1434	1106
55°	1243	231	1253	234	1243	1110
65°	976	155	974	152	976	960
75°	572	78	577	75	572	599
85°	103	25	109	19	103	142
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°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1811.3	1817.8	1822.8	1826.1	1827.7	1827.7	1828.5	1829.4	1840.1	1845.0	1848.3
5°	1812.9	1819.5	1829.4	1842.5	1854.1	1864.0	1872.2	1883.7	1895.3	1907.6	1911.7
7.5°	1805.5	1813.7	1833.5	1857.4	1879.6	1895.3	1906.0	1913.4	1919.2	1920.0	1924.1
10°	1798.9	1813.7	1840.9	1872.2	1900.2	1919.2	1919.2	1915.0	1920.8	1898.6	1876.3
12.5°	1787.4	1803.8	1840.9	1882.1	1908.4	1915.9	1912.6	1896.1	1862.3	1835.1	1822.8
15°	1773.4	1795.6	1841.7	1887.9	1910.1	1912.6	1881.3	1839.3	1813.7	1797.2	1776.7
17.5°	1757.7	1787.4	1842.5	1888.7	1896.9	1885.4	1826.1	1799.7	1773.4	1734.6	1706.6
20°	1742.9	1771.7	1836.0	1877.1	1882.1	1830.2	1784.1	1756.1	1711.6	1677.8	1665.5
22.5°	1719.8	1753.6	1830.2	1861.5	1842.5	1782.4	1737.9	1693.5	1653.1	1643.2	1628.4
25°	1700.9	1736.3	1817.0	1842.5	1792.3	1738.8	1686.9	1635.0	1616.0	1602.0	1588.9
27.5°	1675.3	1719.0	1799.7	1808.0	1738.8	1691.8	1616.0	1593.0	1575.7	1560.0	1554.3
30°	1647.3	1700.9	1775.8	1760.2	1694.3	1625.1	1569.1	1547.7	1535.3	1518.8	1512.3
32.5°	1615.2	1673.7	1749.5	1705.0	1646.5	1560.0	1523.8	1507.3	1490.8	1478.5	1437.3
35°	1582.3	1649.8	1718.2	1652.3	1588.9	1510.6	1478.5	1463.7	1448.0	1402.7	1359.9
37.5°	1548.5	1623.5	1680.3	1595.4	1512.3	1459.5	1432.4	1415.9	1380.5	1322.8	1301.4
40°	1509.8	1591.3	1631.7	1537.0	1445.5	1407.7	1382.1	1365.6	1285.7	1260.2	1253.6
42.5°	1471.1	1560.0	1572.4	1480.1	1390.4	1352.5	1331.1	1276.7	1222.3	1209.1	1211.6
45°	1434.0	1526.3	1507.3	1399.4	1332.7	1301.4	1265.2	1190.2	1161.4	1168.0	1169.6
47.5°	1389.5	1485.9	1439.0	1318.7	1273.4	1242.1	1161.4	1116.1	1112.0	1121.0	1126.0
50°	1341.8	1440.6	1366.5	1245.4	1209.1	1172.1	1080.7	1057.6	1062.5	1071.6	1077.4
52.5°	1297.3	1389.5	1291.5	1177.0	1145.7	1060.9	999.1	1003.2	1011.5	1022.2	1025.5
55°	1242.9	1327.8	1211.6	1107.8	1078.2	967.0	939.0	948.9	957.1	966.2	972.8
57.5°	1186.1	1256.9	1116.9	1030.4	982.6	883.8	886.3	892.9	898.6	909.3	375.6
60°	1121.0	1176.2	1013.1	958.8	864.0	817.9	820.4	831.9	837.7	467.8	258.6
62.5°	1053.5	1082.3	919.2	877.2	755.3	752.0	763.5	768.5	523.0	247.1	242.2
65°	976.0	970.3	827.0	760.2	681.2	684.5	696.8	672.1	231.5	231.5	229.8
67.5°	890.4	855.8	737.2	629.3	609.5	616.9	630.1	219.9	214.2	215.8	210.0
70°	792.4	743.8	644.1	532.9	539.5	546.9	212.5	199.3	196.9	192.7	181.2
72.5°	688.6	621.9	527.1	462.9	467.0	293.2	186.1	179.6	171.3	163.1	150.7
75°	572.5	486.0	387.1	387.1	392.9	167.2	162.3	151.6	142.5	131.8	124.4
77.5°	448.9	373.9	300.6	312.2	152.4	140.0	131.0	119.4	112.0	105.4	101.3
80°	328.6	261.1	226.5	202.6	118.6	106.3	97.2	90.6	87.3	83.2	78.2
82.5°	215.8	157.3	157.3	95.5	83.2	73.3	70.8	65.9	62.6	60.1	57.7
85°	103.0	91.4	69.2	58.5	51.9	46.9	45.3	42.8	42.8	42.0	41.2
87.5°	37.9	41.2	30.5	29.7	28.0	27.2	28.0	28.0	28.8	28.0	27.2
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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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1856.6	1863.1	1868.1	1876.3	1887.0	1896.1	1904.3	1915.9	1934.0	1938.9	1943.0
5°	1911.7	1914.2	1920.0	1926.6	1928.2	1932.3	1931.5	1936.4	1938.9	1944.7	1932.3
7.5°	1915.0	1901.9	1886.2	1872.2	1862.3	1853.3	1847.5	1856.6	1861.5	1865.6	1853.3
10°	1845.8	1830.2	1821.1	1812.9	1803.0	1789.0	1770.1	1774.2	1772.5	1772.5	1768.4
12.5°	1802.2	1780.0	1756.9	1736.3	1727.2	1726.4	1727.2	1736.3	1736.3	1735.5	1730.5
15°	1733.8	1712.4	1700.9	1695.9	1695.9	1693.5	1693.5	1703.3	1700.9	1700.9	1698.4
17.5°	1688.5	1673.7	1665.5	1659.7	1657.2	1661.3	1666.3	1670.4	1671.2	1667.9	1654.8
20°	1651.5	1637.5	1627.6	1629.2	1628.4	1630.9	1633.3	1619.3	1602.0	1579.0	1568.3
22.5°	1612.7	1602.0	1594.6	1594.6	1584.7	1569.1	1546.0	1541.1	1538.6	1527.9	1518.8
25°	1575.7	1563.3	1552.6	1519.7	1499.1	1501.6	1497.4	1489.2	1488.4	1487.5	1490.8
27.5°	1538.6	1506.5	1465.3	1460.4	1452.1	1451.3	1456.2	1460.4	1460.4	1463.7	1467.8
30°	1462.0	1424.9	1417.5	1408.5	1411.8	1423.3	1425.8	1431.5	1433.2	1439.0	1442.2
32.5°	1392.0	1375.5	1368.9	1373.1	1383.8	1393.6	1399.4	1401.9	1406.0	1410.9	1415.1
35°	1335.2	1330.2	1336.0	1345.1	1355.8	1364.0	1368.9	1373.9	1378.0	1382.1	1385.4
37.5°	1293.2	1296.5	1304.7	1316.2	1326.9	1333.5	1337.6	1343.4	1349.2	1354.1	1334.3
40°	1253.6	1261.9	1270.9	1283.3	1292.3	1298.9	1303.0	1310.5	1261.0	570.8	313.0
42.5°	1219.0	1228.1	1234.7	1244.6	1254.4	1259.4	1223.1	546.1	308.9	307.2	311.3
45°	1177.0	1184.4	1195.1	1202.6	1211.6	795.7	303.9	307.2	302.3	305.6	307.2
47.5°	1134.2	1145.7	1151.5	1098.8	327.0	302.3	299.0	302.3	299.0	303.1	300.6
50°	1085.6	1099.6	782.5	295.7	293.2	291.6	294.9	293.2	295.7	299.0	292.4
52.5°	1036.2	641.6	286.6	285.0	286.6	285.0	290.8	286.6	287.5	284.2	275.9
55°	350.9	277.6	275.1	274.3	279.2	279.2	279.2	272.6	268.5	260.3	254.5
57.5°	268.5	268.5	267.7	268.5	266.9	265.2	257.8	252.0	246.3	234.7	231.5
60°	254.5	254.5	254.5	254.5	247.1	243.8	232.3	227.3	217.4	211.7	208.4
62.5°	243.0	241.3	233.9	231.5	223.2	214.2	207.6	202.6	192.7	189.4	187.0
65°	226.5	220.7	211.7	201.8	197.7	187.8	184.5	177.1	172.1	169.7	168.0
67.5°	199.3	191.1	183.7	177.1	169.7	166.4	162.3	156.5	153.2	151.6	149.9
70°	170.5	164.7	157.3	153.2	148.3	145.8	140.0	138.4	135.9	133.4	131.0
72.5°	142.5	139.2	135.9	130.1	128.5	126.8	121.1	117.8	114.5	111.2	109.5
75°	119.4	117.0	115.3	110.4	107.9	103.0	98.8	96.4	93.9	91.4	89.8
77.5°	98.0	96.4	91.4	88.1	86.5	82.4	80.7	81.5	79.9	76.6	75.0
80°	76.6	75.0	70.8	70.8	69.2	67.5	65.9	64.2	62.6	60.1	58.5
82.5°	58.5	56.8	55.2	53.5	51.9	51.1	50.2	48.6	46.9	45.3	44.5
85°	41.2	40.4	39.5	38.7	37.9	37.1	36.2	34.6	32.9	32.1	31.3
87.5°	28.0	27.2	26.4	25.5	24.7	23.9	23.1	22.2	20.6	19.8	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1943.0	1947.2	1943.0	1934.0	1928.2	1925.7	1930.7	1930.7	1934.0	1938.1	1938.9
5°	1912.6	1902.7	1891.1	1879.6	1873.8	1870.6	1861.5	1863.1	1865.6	1867.3	1868.9
7.5°	1836.8	1823.6	1808.0	1793.1	1787.4	1782.4	1771.7	1771.7	1771.7	1772.5	1777.5
10°	1759.4	1753.6	1747.0	1737.1	1729.7	1727.2	1718.2	1720.6	1719.0	1721.5	1727.2
12.5°	1723.1	1716.5	1710.8	1700.9	1692.6	1689.3	1685.2	1687.7	1686.9	1691.0	1695.9
15°	1690.2	1686.9	1680.3	1672.9	1665.5	1658.9	1644.0	1639.1	1635.8	1631.7	1637.5
17.5°	1635.8	1612.7	1597.1	1585.6	1577.3	1571.6	1567.4	1567.4	1569.9	1572.4	1577.3
20°	1561.7	1555.1	1547.7	1535.3	1527.1	1523.8	1521.3	1521.3	1525.4	1528.7	1537.8
22.5°	1510.6	1509.8	1507.3	1501.6	1497.4	1497.4	1498.3	1499.9	1505.7	1510.6	1519.7
25°	1486.7	1490.0	1488.4	1485.1	1482.6	1483.4	1481.8	1483.4	1489.2	1494.1	1501.6
27.5°	1467.8	1472.7	1471.1	1466.1	1462.0	1463.7	1466.1	1464.5	1469.4	1475.2	1481.0
30°	1442.2	1443.1	1446.4	1440.6	1439.0	1441.4	1442.2	1443.9	1448.8	1453.0	1457.9
32.5°	1413.4	1420.0	1419.2	1413.4	1413.4	1415.9	1416.7	1361.5	1258.6	1083.9	1036.2
35°	1385.4	1392.8	1380.5	1163.8	805.5	430.0	331.9	320.4	322.9	324.5	326.2
37.5°	1024.6	486.0	309.7	312.2	314.6	317.1	319.6	322.1	324.5	327.0	327.8
40°	308.1	307.2	309.7	313.0	315.5	317.1	320.4	322.9	325.3	327.8	328.6
42.5°	304.8	306.4	308.9	312.2	315.5	318.8	321.2	324.5	326.2	327.8	328.6
45°	303.1	306.4	309.7	312.2	314.6	316.3	317.9	318.8	317.9	317.9	319.6
47.5°	300.6	303.9	304.8	303.9	304.8	303.9	303.9	303.9	301.5	300.6	300.6
50°	291.6	291.6	289.9	286.6	285.8	285.0	283.3	282.5	279.2	278.4	278.4
52.5°	272.6	271.8	269.3	265.2	263.6	261.9	261.1	260.3	257.0	255.3	256.2
55°	250.4	248.7	246.3	241.3	240.5	238.9	238.0	237.2	233.9	235.6	233.1
57.5°	229.8	226.5	223.2	222.4	219.1	218.3	217.4	216.6	214.2	215.0	213.3
60°	205.1	204.3	202.6	199.3	199.3	198.5	198.5	196.9	195.2	194.4	194.4
62.5°	187.0	184.5	182.9	182.9	180.4	180.4	180.4	178.7	177.1	177.9	177.1
65°	167.2	166.4	165.6	163.9	163.9	163.1	163.1	161.4	159.0	159.8	158.1
67.5°	150.7	149.1	147.4	146.6	143.3	141.7	140.8	140.0	136.7	137.6	135.9
70°	130.1	127.7	126.0	124.4	121.9	120.3	120.3	118.6	116.1	117.0	115.3
72.5°	108.7	107.1	105.4	104.6	102.1	101.3	100.5	99.7	97.2	98.0	97.2
75°	90.6	90.6	89.8	89.0	86.5	84.0	82.4	81.5	79.9	80.7	79.1
77.5°	75.0	73.3	71.7	71.7	69.2	67.5	65.9	65.9	65.9	65.1	64.2
80°	58.5	56.8	56.8	56.0	54.4	52.7	51.9	51.9	51.1	51.1	50.2
82.5°	44.5	42.8	42.0	42.0	40.4	39.5	38.7	37.9	37.9	37.9	37.1
85°	31.3	29.7	28.8	28.8	27.2	26.4	26.4	25.5	25.5	24.7	24.7
87.5°	18.9	18.1	17.3	17.3	15.6	14.8	14.8	14.8	14.0	14.0	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213766

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1938.9	1938.9	1933.2	1934.8	1932.3	1935.6	1931.5	1931.5	1936.4	1936.4	1939.7
5°	1869.7	1865.6	1864.8	1863.1	1854.9	1858.2	1854.1	1850.0	1855.7	1855.7	1863.1
7.5°	1775.0	1767.6	1770.9	1765.9	1761.0	1753.6	1756.1	1752.8	1756.9	1762.7	1770.1
10°	1726.4	1719.8	1723.9	1719.0	1721.5	1710.8	1711.6	1712.4	1716.5	1718.2	1724.8
12.5°	1695.1	1693.5	1691.8	1690.2	1691.8	1686.1	1682.8	1683.6	1685.2	1686.1	1691.0
15°	1629.2	1618.5	1621.8	1610.3	1611.1	1611.9	1605.3	1611.9	1611.1	1621.8	1631.7
17.5°	1575.7	1575.7	1569.9	1565.0	1561.7	1560.9	1555.9	1559.2	1555.9	1562.5	1565.0
20°	1538.6	1537.8	1537.0	1534.5	1526.3	1527.1	1529.6	1522.1	1521.3	1520.5	1525.4
22.5°	1521.3	1522.1	1518.8	1518.8	1511.4	1513.1	1513.9	1505.7	1506.5	1504.0	1506.5
25°	1503.2	1504.8	1500.7	1500.7	1499.1	1498.3	1494.1	1495.8	1490.8	1486.7	1490.8
27.5°	1481.8	1485.1	1481.8	1483.4	1480.1	1478.5	1476.0	1474.4	1469.4	1468.6	1471.1
30°	1462.0	1463.7	1462.8	1458.7	1457.9	1453.0	1455.4	1450.5	1445.5	1446.4	1448.0
32.5°	749.5	715.8	551.9	498.3	493.4	511.5	606.2	738.0	956.3	1168.0	1320.3
35°	327.0	327.0	327.0	326.2	326.2	325.3	324.5	323.7	322.9	322.1	321.2
37.5°	328.6	328.6	328.6	328.6	327.8	327.0	327.0	325.3	324.5	323.7	322.9
40°	329.5	330.3	330.3	330.3	329.5	329.5	328.6	327.0	326.2	324.5	322.9
42.5°	328.6	329.5	329.5	328.6	328.6	327.8	327.8	327.0	326.2	325.3	324.5
45°	317.9	318.8	317.1	317.1	316.3	316.3	316.3	316.3	316.3	317.1	317.1
47.5°	299.0	299.0	298.2	297.3	297.3	296.5	297.3	296.5	298.2	299.0	300.6
50°	276.8	276.8	275.1	274.3	274.3	274.3	274.3	275.1	275.9	277.6	279.2
52.5°	253.7	253.7	252.9	252.0	251.2	251.2	253.7	252.9	253.7	254.5	257.0
55°	231.5	232.3	230.6	230.6	229.8	229.8	229.8	230.6	231.5	232.3	234.7
57.5°	212.5	212.5	210.9	210.9	210.9	210.0	212.5	210.9	211.7	212.5	214.2
60°	193.6	192.7	192.7	191.9	191.9	191.9	193.6	192.7	192.7	193.6	195.2
62.5°	176.3	176.3	175.4	175.4	174.6	174.6	176.3	175.4	175.4	176.3	177.1
65°	156.5	156.5	155.7	154.8	157.3	154.8	157.3	155.7	157.3	158.1	159.8
67.5°	134.3	134.3	134.3	133.4	133.4	135.1	135.9	134.3	135.1	136.7	137.6
70°	114.5	114.5	113.7	113.7	113.7	115.3	116.1	114.5	115.3	116.1	117.8
72.5°	97.2	95.5	95.5	94.7	96.4	96.4	97.2	96.4	97.2	97.2	98.8
75°	79.9	78.2	78.2	78.2	79.9	79.1	79.9	79.1	79.9	79.9	80.7
77.5°	64.2	63.4	62.6	62.6	64.2	64.2	64.2	63.4	64.2	65.1	65.9
80°	50.2	49.4	48.6	48.6	50.2	50.2	50.2	51.1	50.2	51.1	51.9
82.5°	37.1	36.2	35.4	37.1	37.1	37.1	37.1	37.9	37.1	37.9	38.7
85°	24.7	23.9	23.1	24.7	24.7	24.7	24.7	25.5	24.7	25.5	26.4
87.5°	13.2	12.4	12.4	13.2	13.2	13.2	14.0	14.0	14.0	14.8	14.8
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: P1213766

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1944.7	1947.2	1946.3	1941.4	1936.4	1930.7	1926.6	1927.4	1935.6	1938.1	1930.7
5°	1863.1	1878.8	1878.8	1889.5	1883.7	1878.8	1882.1	1900.2	1909.3	1923.3	1928.2
7.5°	1779.1	1786.5	1785.7	1796.4	1794.8	1794.8	1797.2	1821.1	1832.7	1844.2	1847.5
10°	1732.2	1739.6	1738.8	1739.6	1737.1	1731.4	1731.4	1742.1	1751.9	1757.7	1759.4
12.5°	1698.4	1702.5	1701.7	1701.7	1700.1	1695.1	1694.3	1703.3	1714.1	1721.5	1722.3
15°	1648.2	1659.7	1662.2	1672.9	1670.4	1663.8	1665.5	1672.9	1679.5	1686.1	1683.6
17.5°	1573.2	1579.0	1579.8	1583.9	1582.3	1582.3	1592.2	1619.3	1637.5	1653.1	1654.8
20°	1530.4	1534.5	1532.8	1541.9	1537.8	1537.0	1539.4	1551.0	1559.2	1566.6	1579.8
22.5°	1509.8	1513.1	1510.6	1511.4	1504.0	1497.4	1495.8	1504.8	1513.9	1523.8	1523.8
25°	1492.5	1495.0	1494.1	1492.5	1486.7	1477.7	1476.0	1477.7	1481.0	1481.8	1476.0
27.5°	1471.9	1473.5	1473.5	1474.4	1467.0	1458.7	1457.1	1455.4	1458.7	1457.9	1448.8
30°	1450.5	1448.0	1448.8	1449.7	1443.1	1435.7	1432.4	1431.5	1434.8	1434.0	1424.9
32.5°	1399.4	1418.4	1420.0	1421.7	1415.9	1409.3	1406.0	1403.5	1405.2	1404.4	1396.1
35°	320.4	326.2	399.5	904.4	1228.1	1359.9	1373.9	1370.6	1371.4	1371.4	1364.8
37.5°	321.2	320.4	319.6	317.1	314.6	313.0	541.2	1154.0	1336.8	1337.6	1331.9
40°	321.2	320.4	319.6	317.9	314.6	312.2	308.1	304.8	312.2	686.9	1256.9
42.5°	322.9	321.2	319.6	317.9	314.6	311.3	308.1	303.9	306.4	304.8	300.6
45°	317.9	317.1	317.1	316.3	314.6	311.3	307.2	302.3	299.8	302.3	298.2
47.5°	302.3	303.1	305.6	306.4	306.4	307.2	304.8	301.5	297.3	299.8	294.9
50°	280.9	282.5	283.3	287.5	289.1	292.4	293.2	293.2	292.4	295.7	292.4
52.5°	257.8	259.5	263.6	265.2	266.9	271.8	273.5	275.9	277.6	282.5	285.8
55°	235.6	236.4	238.0	241.3	243.8	247.9	250.4	252.9	257.0	259.5	269.3
57.5°	215.0	215.8	219.1	219.9	221.6	224.9	227.3	230.6	233.9	235.6	247.1
60°	195.2	196.0	198.5	199.3	200.2	203.4	205.9	208.4	210.9	212.5	220.7
62.5°	177.9	177.9	180.4	180.4	181.2	183.7	185.3	187.0	189.4	190.3	194.4
65°	160.6	161.4	163.1	163.1	163.9	165.6	166.4	167.2	169.7	169.7	173.0
67.5°	139.2	140.0	142.5	144.1	145.0	148.3	149.1	149.9	151.6	152.4	154.0
70°	118.6	119.4	121.9	122.7	123.6	126.0	127.7	130.1	132.6	135.1	136.7
72.5°	99.7	100.5	103.0	103.0	105.4	106.3	107.9	108.7	111.2	112.8	115.3
75°	81.5	82.4	84.8	84.8	87.3	88.1	89.0	89.8	91.4	93.1	94.7
77.5°	66.7	66.7	70.0	71.7	73.3	73.3	74.1	74.1	74.1	75.0	76.6
80°	52.7	52.7	55.2	56.8	58.5	58.5	59.3	60.1	61.0	61.0	61.8
82.5°	39.5	39.5	42.0	42.8	44.5	44.5	44.5	45.3	46.1	45.3	46.9
85°	27.2	27.2	28.8	29.7	31.3	31.3	31.3	32.1	32.9	32.1	32.9
87.5°	15.6	16.5	17.3	18.1	18.9	19.8	19.8	19.8	20.6	20.6	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1922.4	1912.6	1911.7	1900.2	1896.9	1897.7	1888.7	1885.4	1870.6	1867.3	1851.6
5°	1929.9	1934.8	1932.3	1931.5	1934.0	1932.3	1925.7	1922.4	1920.0	1913.4	1900.2
7.5°	1848.3	1851.6	1854.1	1864.8	1873.8	1889.5	1906.0	1916.7	1924.9	1926.6	1915.9
10°	1765.1	1780.8	1791.5	1808.0	1821.1	1830.2	1840.1	1849.1	1873.0	1896.9	1910.9
12.5°	1722.3	1726.4	1725.6	1734.6	1743.7	1767.6	1790.7	1803.8	1822.0	1832.7	1858.2
15°	1686.1	1686.9	1689.3	1695.9	1700.9	1709.1	1719.8	1739.6	1775.8	1792.3	1806.3
17.5°	1653.1	1653.1	1654.8	1660.5	1667.1	1674.5	1681.1	1689.3	1707.5	1734.6	1769.2
20°	1600.4	1623.5	1625.9	1625.1	1628.4	1642.4	1644.0	1658.9	1667.9	1678.6	1712.4
22.5°	1522.1	1536.1	1555.9	1586.4	1597.9	1604.5	1609.5	1616.0	1630.0	1642.4	1656.4
25°	1479.3	1488.4	1494.1	1503.2	1527.1	1565.8	1573.2	1580.6	1589.7	1598.7	1616.0
27.5°	1441.4	1440.6	1444.7	1453.0	1459.5	1480.1	1516.4	1545.2	1546.9	1560.0	1574.9
30°	1414.2	1409.3	1403.5	1401.9	1410.9	1421.7	1432.4	1477.7	1509.0	1515.6	1531.2
32.5°	1388.7	1380.5	1372.2	1365.6	1359.9	1368.9	1375.5	1395.3	1435.7	1473.5	1481.8
35°	1357.4	1349.2	1339.3	1331.9	1322.8	1322.0	1321.2	1340.1	1353.3	1398.6	1438.1
37.5°	1325.3	1316.2	1308.0	1299.8	1290.7	1284.1	1280.0	1284.9	1297.3	1317.0	1382.9
40°	1291.5	1280.8	1272.6	1266.0	1253.6	1248.7	1240.4	1237.2	1238.0	1255.3	1289.9
42.5°	771.8	1230.6	1234.7	1227.3	1216.6	1210.0	1200.9	1196.8	1188.6	1196.8	1216.6
45°	297.3	300.6	900.3	1189.4	1176.2	1168.0	1159.7	1155.6	1146.5	1140.0	1158.1
47.5°	291.6	294.9	288.3	408.5	1122.7	1125.1	1115.2	1111.1	1102.1	1097.1	1092.2
50°	287.5	289.9	285.0	286.6	280.9	1028.8	1069.9	1065.0	1055.1	1049.4	1039.5
52.5°	283.3	283.3	280.0	275.9	274.3	275.1	865.7	1018.1	1006.5	1000.8	987.6
55°	270.2	271.8	275.1	268.5	266.9	266.0	263.6	824.5	953.0	946.4	934.9
57.5°	250.4	253.7	262.8	261.1	261.1	254.5	252.9	252.9	765.2	891.2	879.7
60°	227.3	230.6	240.5	243.8	246.3	244.6	243.0	242.2	238.9	806.4	821.2
62.5°	203.4	206.7	210.0	220.7	224.0	228.2	233.1	230.6	227.3	227.3	759.4
65°	177.9	182.9	184.5	194.4	198.5	205.9	210.0	215.8	214.2	213.3	217.4
67.5°	155.7	161.4	162.3	166.4	173.8	177.1	182.0	192.7	197.7	199.3	201.0
70°	136.7	140.0	142.5	144.1	149.1	149.9	159.0	166.4	173.8	182.0	184.5
72.5°	117.8	120.3	125.2	123.6	125.2	128.5	133.4	138.4	145.8	157.3	164.7
75°	96.4	98.0	101.3	103.0	106.3	108.7	112.0	116.1	122.7	128.5	138.4
77.5°	77.4	78.2	80.7	81.5	84.8	87.3	93.1	95.5	99.7	103.8	109.5
80°	62.6	62.6	63.4	63.4	65.9	68.4	72.5	75.0	79.9	83.2	83.2
82.5°	47.8	47.8	50.2	50.2	51.9	51.9	54.4	54.4	56.8	58.5	60.1
85°	33.8	34.6	36.2	35.4	37.1	36.2	37.9	39.5	40.4	39.5	38.7
87.5°	22.2	22.2	23.9	23.1	23.9	23.9	25.5	25.5	26.4	26.4	25.5
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: P1213766

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1845.8	1833.5	1826.1	1817.0	1814.5	1812.1	1815.4	1815.4	1810.4	1806.3	1798.9
5°	1888.7	1875.5	1861.5	1846.7	1832.7	1817.8	1812.1	1811.3	1802.2	1797.2	1794.8
7.5°	1910.9	1904.3	1888.7	1868.1	1846.7	1820.3	1808.8	1802.2	1793.1	1791.5	1791.5
10°	1913.4	1906.0	1897.7	1882.9	1858.2	1823.6	1801.4	1788.2	1780.0	1785.7	1796.4
12.5°	1889.5	1903.5	1896.1	1886.2	1866.4	1824.4	1792.3	1772.5	1770.1	1784.9	1812.9
15°	1828.5	1869.7	1890.3	1880.4	1864.8	1822.8	1777.5	1754.4	1754.4	1784.9	1821.1
17.5°	1782.4	1814.5	1864.8	1873.0	1854.9	1819.5	1763.5	1736.3	1743.7	1788.2	1826.9
20°	1744.5	1764.3	1812.9	1859.0	1841.7	1812.1	1742.9	1714.9	1729.7	1783.2	1835.1
22.5°	1685.2	1724.8	1754.4	1822.8	1828.5	1798.1	1722.3	1688.5	1718.2	1783.2	1831.0
25°	1627.6	1675.3	1706.6	1773.4	1808.8	1780.8	1703.3	1660.5	1705.8	1780.8	1827.7
27.5°	1587.2	1609.5	1666.3	1714.1	1779.1	1757.7	1677.8	1630.0	1690.2	1767.6	1808.8
30°	1544.4	1559.2	1615.2	1660.5	1739.6	1731.4	1651.5	1596.3	1670.4	1755.2	1759.4
32.5°	1497.4	1513.9	1542.7	1608.6	1684.4	1706.6	1621.8	1562.5	1649.0	1736.3	1701.7
35°	1449.7	1462.0	1485.1	1555.9	1620.2	1669.6	1585.6	1523.8	1634.2	1707.5	1646.5
37.5°	1401.9	1415.1	1434.8	1494.1	1552.6	1635.0	1554.3	1485.1	1607.0	1656.4	1588.9
40°	1356.6	1364.0	1384.6	1421.7	1496.6	1599.6	1518.8	1444.7	1579.0	1591.3	1510.6
42.5°	1273.4	1310.5	1329.4	1359.1	1433.2	1551.0	1477.7	1401.9	1547.7	1526.3	1432.4
45°	1183.6	1264.3	1272.6	1302.2	1377.2	1499.1	1439.0	1359.9	1518.0	1470.3	1358.2
47.5°	1110.3	1168.8	1216.6	1241.3	1310.5	1438.1	1402.7	1324.5	1473.5	1399.4	1285.7
50°	1045.2	1076.5	1163.0	1181.1	1230.6	1364.8	1359.9	1283.3	1411.8	1310.5	1214.9
52.5°	981.8	1004.1	1082.3	1121.0	1161.4	1285.7	1308.8	1242.9	1344.2	1221.5	1143.3
55°	926.6	934.0	976.9	1058.4	1094.7	1205.9	1252.8	1196.0	1258.6	1136.7	1074.1
57.5°	869.8	863.2	894.5	999.1	1025.5	1124.3	1193.5	1148.2	1189.4	1050.2	1002.4
60°	810.5	801.4	814.6	883.8	952.2	1043.6	1123.5	1095.5	1105.4	964.5	922.5
62.5°	748.7	739.7	735.5	779.2	880.5	960.4	1052.7	1037.0	1002.4	886.3	823.7
65°	684.5	675.4	668.8	686.1	801.4	852.5	973.6	969.5	889.6	803.9	693.5
67.5°	208.4	614.5	600.5	599.6	675.4	754.5	887.9	881.3	775.9	715.8	597.2
70°	187.8	498.3	529.6	522.2	555.2	654.8	789.9	785.0	665.5	574.1	528.0
72.5°	172.1	176.3	467.8	459.6	467.0	556.8	687.8	674.6	564.2	453.0	456.3
75°	147.4	154.8	161.4	387.9	378.1	461.3	576.6	556.0	465.4	373.9	381.4
77.5°	120.3	129.3	134.3	282.5	305.6	328.6	460.4	433.3	320.4	299.0	142.5
80°	89.8	97.2	105.4	112.8	232.3	229.8	341.8	314.6	223.2	186.1	111.2
82.5°	65.9	68.4	73.3	81.5	92.3	154.0	219.9	193.6	154.8	84.8	76.6
85°	41.2	44.5	46.9	49.4	56.0	92.3	108.7	86.5	65.1	51.9	48.6
87.5°	26.4	26.4	25.5	26.4	27.2	32.9	37.1	35.4	28.0	26.4	26.4
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: P1213766

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1790.7	1779.1	1779.1	1775.8	1778.3	1778.3	1777.5	1778.3	1784.1	1787.4	1793.1
5°	1789.8	1786.5	1794.0	1803.0	1813.7	1826.9	1830.2	1841.7	1852.4	1866.4	1881.3
7.5°	1800.5	1812.1	1826.1	1840.9	1862.3	1878.0	1892.0	1906.0	1915.9	1929.0	1937.3
10°	1816.2	1839.3	1863.1	1882.1	1905.1	1918.3	1927.4	1929.0	1915.0	1892.8	1874.7
12.5°	1838.4	1865.6	1887.9	1906.0	1916.7	1911.7	1885.4	1858.2	1842.5	1819.5	1787.4
15°	1857.4	1882.1	1905.1	1897.7	1868.9	1841.7	1821.1	1789.0	1757.7	1736.3	1722.3
17.5°	1865.6	1889.5	1881.3	1842.5	1815.4	1784.1	1742.1	1717.4	1696.8	1680.3	1672.1
20°	1870.6	1866.4	1822.0	1794.0	1741.2	1712.4	1685.2	1662.2	1646.5	1638.3	1636.6
22.5°	1857.4	1807.1	1769.2	1719.0	1680.3	1656.4	1635.0	1616.0	1605.3	1598.7	1594.6
25°	1813.7	1755.2	1699.2	1659.7	1626.7	1606.2	1589.7	1574.0	1560.9	1557.6	1549.3
27.5°	1752.8	1705.0	1630.9	1600.4	1571.6	1561.7	1543.6	1527.9	1516.4	1506.5	1480.1
30°	1702.5	1626.7	1573.2	1545.2	1527.9	1516.4	1495.8	1479.3	1459.5	1423.3	1408.5
32.5°	1640.8	1565.8	1514.7	1499.1	1477.7	1467.8	1444.7	1408.5	1378.0	1363.2	1362.4
35°	1560.9	1499.1	1462.0	1448.0	1430.7	1414.2	1366.5	1333.5	1318.7	1320.3	1332.7
37.5°	1494.1	1439.0	1415.1	1395.3	1375.5	1333.5	1293.2	1277.5	1281.6	1289.9	1295.6
40°	1426.6	1384.6	1357.4	1341.8	1297.3	1256.1	1234.7	1240.4	1247.9	1253.6	1261.0
42.5°	1360.7	1331.1	1303.9	1273.4	1212.4	1190.2	1195.1	1202.6	1209.1	1217.4	1224.8
45°	1298.1	1271.7	1240.4	1171.3	1140.8	1146.5	1154.0	1159.7	1169.6	1175.4	1182.8
47.5°	1238.8	1210.8	1155.6	1094.7	1091.4	1102.9	1109.5	1116.9	1124.3	1109.5	612.0
50°	1172.1	1143.3	1059.2	1036.2	1043.6	1054.3	1062.5	1069.9	953.0	378.9	291.6
52.5°	1106.2	1032.9	979.3	985.9	993.3	1005.7	1011.5	751.2	299.0	285.0	285.8
55°	1032.9	939.0	923.3	931.6	938.2	950.5	630.1	275.9	274.3	273.5	280.0
57.5°	917.6	860.7	867.3	875.6	882.2	622.7	268.5	266.9	267.7	268.5	269.3
60°	814.6	802.3	809.7	817.1	578.2	259.5	254.5	255.3	258.6	256.2	249.6
62.5°	733.1	743.0	750.4	657.3	246.3	243.8	246.3	243.8	238.0	233.9	225.7
65°	670.5	680.4	686.1	231.5	230.6	233.9	231.5	223.2	214.2	202.6	200.2
67.5°	604.6	614.5	219.9	214.2	217.4	213.3	203.4	193.6	187.0	177.1	173.0
70°	536.2	229.8	199.3	198.5	192.7	186.1	175.4	165.6	157.3	153.2	149.1
72.5°	387.1	182.0	179.6	173.0	163.1	154.0	145.0	139.2	135.1	132.6	130.1
75°	161.4	158.1	150.7	139.2	129.3	125.2	118.6	114.5	112.8	107.9	106.3
77.5°	135.1	128.5	117.8	109.5	103.8	101.3	96.4	91.4	89.0	88.1	84.8
80°	103.8	94.7	89.8	85.7	84.0	78.2	72.5	70.0	68.4	67.5	65.1
82.5°	70.8	67.5	64.2	58.5	58.5	56.0	53.5	51.9	50.2	50.2	48.6
85°	46.1	43.7	42.8	40.4	40.4	38.7	37.9	37.1	36.2	35.4	34.6
87.5°	26.4	26.4	27.2	26.4	26.4	25.5	24.7	23.9	23.1	23.1	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1800.5	1808.8	1810.4	1838.4	1854.1	1853.3	1848.3	1863.1	1854.1	1849.1	1854.1
5°	1896.1	1906.0	1914.2	1944.7	1955.4	1960.3	1959.5	1967.7	1961.2	1955.4	1955.4
7.5°	1943.0	1946.3	1949.6	1942.2	1937.3	1929.0	1916.7	1898.6	1889.5	1879.6	1867.3
10°	1865.6	1854.9	1859.0	1844.2	1831.8	1822.8	1811.3	1796.4	1784.1	1775.0	1761.0
12.5°	1770.9	1770.1	1771.7	1774.2	1761.8	1754.4	1745.4	1734.6	1725.6	1715.7	1704.2
15°	1713.2	1714.1	1720.6	1718.2	1714.1	1709.9	1700.1	1696.8	1688.5	1677.8	1671.2
17.5°	1672.1	1676.2	1682.8	1679.5	1672.9	1668.8	1661.3	1653.9	1646.5	1638.3	1628.4
20°	1635.8	1639.9	1644.0	1639.9	1627.6	1621.8	1611.9	1588.9	1572.4	1555.9	1541.1
22.5°	1596.3	1598.7	1595.4	1582.3	1551.0	1536.1	1524.6	1518.0	1504.0	1495.0	1485.9
25°	1546.9	1532.8	1511.4	1496.6	1484.3	1477.7	1472.7	1471.9	1470.3	1468.6	1464.5
27.5°	1466.1	1461.2	1449.7	1443.9	1444.7	1447.2	1448.0	1450.5	1448.0	1444.7	1441.4
30°	1406.0	1408.5	1409.3	1410.9	1415.1	1417.5	1418.4	1421.7	1420.0	1417.5	1415.9
32.5°	1368.1	1373.9	1377.2	1382.1	1384.6	1388.7	1388.7	1393.6	1388.7	1387.9	1386.2
35°	1336.8	1341.8	1343.4	1350.8	1353.3	1357.4	1357.4	1361.5	1357.4	1315.4	1038.6
37.5°	1305.5	1310.5	1313.8	1320.3	1321.2	1323.6	1221.5	893.7	576.6	446.4	341.0
40°	1268.5	1274.2	1277.5	1280.0	899.4	570.8	392.9	319.6	319.6	322.1	324.5
42.5°	1228.9	1233.0	859.1	500.0	311.3	310.5	313.0	315.5	317.9	321.2	324.5
45°	966.2	487.6	309.7	302.3	304.8	308.1	311.3	314.6	318.8	322.1	323.7
47.5°	317.1	297.3	301.5	298.2	302.3	306.4	309.7	313.0	313.8	314.6	313.8
50°	293.2	293.2	295.7	295.7	299.0	300.6	300.6	300.6	297.3	296.5	294.1
52.5°	283.3	289.9	286.6	288.3	286.6	284.2	281.7	279.2	274.3	272.6	269.3
55°	278.4	280.9	272.6	270.2	266.9	260.3	257.0	253.7	249.6	247.9	243.8
57.5°	266.9	261.1	252.0	247.9	242.2	235.6	232.3	229.8	225.7	224.0	221.6
60°	245.5	233.9	228.2	223.2	216.6	210.9	208.4	206.7	203.4	202.6	200.2
62.5°	219.1	209.2	204.3	197.7	192.7	189.4	187.0	186.1	182.9	182.9	181.2
65°	190.3	185.3	181.2	174.6	172.1	168.9	168.0	167.2	165.6	164.7	163.1
67.5°	167.2	163.9	158.1	154.8	153.2	150.7	149.1	147.4	144.1	142.5	140.0
70°	146.6	144.1	138.4	135.9	132.6	128.5	126.0	124.4	121.9	120.3	117.8
72.5°	126.8	119.4	115.3	112.8	110.4	106.3	105.4	103.8	101.3	100.5	98.0
75°	102.1	96.4	93.9	92.3	89.8	87.3	87.3	87.3	84.8	84.0	83.2
77.5°	81.5	78.2	76.6	75.0	74.1	72.5	70.0	69.2	66.7	66.7	65.9
80°	62.6	61.0	59.3	58.5	57.7	56.0	54.4	53.5	51.1	51.1	50.2
82.5°	46.1	45.3	44.5	43.7	42.8	42.0	39.5	38.7	37.1	37.1	36.2
85°	32.9	32.1	30.5	29.7	29.7	28.8	26.4	25.5	23.9	23.9	23.9
87.5°	20.6	19.8	18.9	18.1	17.3	16.5	14.8	14.0	14.0	12.4	11.5
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: P1213766

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1844.2	1858.2	1856.6	1866.4	1868.9	1873.8	1875.5	1876.3	1864.0	1873.8	1874.7
5°	1952.9	1955.4	1957.0	1961.2	1965.3	1966.1	1962.0	1957.0	1958.7	1955.4	1947.2
7.5°	1865.6	1853.3	1850.8	1847.5	1845.8	1844.2	1836.8	1843.4	1836.0	1832.7	1821.1
10°	1758.5	1747.0	1746.2	1746.2	1748.7	1747.8	1746.2	1742.9	1749.5	1745.4	1742.9
12.5°	1702.5	1698.4	1700.9	1699.2	1705.8	1707.5	1705.8	1705.8	1704.2	1700.9	1702.5
15°	1668.8	1665.5	1667.9	1665.5	1670.4	1671.2	1667.1	1669.6	1665.5	1661.3	1659.7
17.5°	1624.3	1616.9	1611.1	1602.9	1603.7	1602.0	1597.1	1597.1	1593.0	1582.3	1583.1
20°	1538.6	1531.2	1527.9	1527.9	1532.0	1533.7	1532.8	1534.5	1530.4	1528.7	1522.1
22.5°	1485.1	1484.3	1485.9	1490.0	1496.6	1505.7	1506.5	1506.5	1506.5	1505.7	1497.4
25°	1466.1	1466.1	1467.8	1473.5	1478.5	1485.1	1486.7	1488.4	1486.7	1486.7	1479.3
27.5°	1444.7	1443.1	1446.4	1452.1	1457.9	1462.8	1467.0	1467.8	1465.3	1465.3	1467.8
30°	1418.4	1417.5	1421.7	1427.4	1432.4	1437.3	1441.4	1444.7	1441.4	1441.4	1439.0
32.5°	1391.2	1391.2	1392.8	1358.2	1259.4	1134.2	1136.7	1064.2	1013.9	950.5	1034.5
35°	868.1	631.8	542.8	459.6	401.1	363.2	362.4	350.1	344.3	340.2	339.4
37.5°	327.8	329.5	332.8	334.4	336.9	338.5	339.4	339.4	339.4	339.4	338.5
40°	327.0	330.3	332.8	335.2	337.7	339.4	339.4	340.2	341.0	341.0	341.0
42.5°	327.8	331.1	334.4	336.9	338.5	339.4	340.2	341.0	341.0	341.0	341.0
45°	327.0	328.6	328.6	329.5	329.5	329.5	330.3	330.3	329.5	328.6	330.3
47.5°	314.6	314.6	312.2	311.3	310.5	308.9	309.7	308.9	308.1	307.2	308.9
50°	293.2	289.9	288.3	286.6	285.8	284.2	285.0	284.2	283.3	281.7	284.2
52.5°	267.7	266.9	263.6	261.9	261.1	261.9	260.3	259.5	258.6	257.8	258.6
55°	243.0	239.7	238.9	237.2	236.4	237.2	236.4	235.6	234.7	233.9	234.7
57.5°	220.7	218.3	217.4	215.8	215.8	215.8	215.8	215.0	214.2	213.3	214.2
60°	199.3	197.7	196.9	196.9	196.0	196.0	196.0	195.2	194.4	194.4	195.2
62.5°	181.2	181.2	178.7	177.9	177.9	178.7	177.9	177.1	176.3	175.4	177.1
65°	162.3	159.0	158.1	156.5	154.8	155.7	154.8	154.0	153.2	152.4	154.0
67.5°	139.2	138.4	135.1	133.4	132.6	133.4	132.6	131.8	131.0	130.1	131.8
70°	117.0	117.0	113.7	112.8	112.0	112.0	111.2	111.2	110.4	109.5	111.2
72.5°	97.2	97.2	96.4	94.7	93.9	93.1	92.3	91.4	91.4	92.3	92.3
75°	80.7	79.1	75.8	76.6	75.8	75.0	75.0	74.1	73.3	75.0	74.1
77.5°	63.4	62.6	60.1	61.0	60.1	59.3	59.3	58.5	57.7	58.5	58.5
80°	47.8	47.8	46.9	46.1	46.1	45.3	44.5	44.5	43.7	44.5	44.5
82.5°	34.6	34.6	33.8	32.9	32.1	32.1	31.3	31.3	31.3	31.3	31.3
85°	22.2	21.4	21.4	19.8	19.8	19.8	18.9	18.9	18.9	18.9	18.9
87.5°	10.7	10.7	9.9	9.9	9.1	8.2	8.2	7.4	7.4	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213766

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1859.8	1870.6	1861.5	1865.6	1866.4	1880.4	1879.6	1882.9	1877.1	1870.6	1861.5
5°	1954.6	1949.6	1943.0	1958.7	1950.5	1960.3	1963.6	1970.2	1970.2	1969.4	1962.0
7.5°	1833.5	1822.8	1831.0	1836.8	1839.3	1832.7	1845.8	1860.7	1873.0	1880.4	1881.3
10°	1738.8	1742.1	1741.2	1743.7	1749.5	1748.7	1756.9	1765.1	1768.4	1773.4	1775.0
12.5°	1694.3	1693.5	1695.1	1700.9	1704.2	1703.3	1711.6	1716.5	1718.2	1719.0	1718.2
15°	1658.9	1653.1	1657.2	1658.0	1660.5	1660.5	1670.4	1677.8	1681.1	1682.8	1681.1
17.5°	1592.2	1578.2	1591.3	1591.3	1600.4	1598.7	1614.4	1626.7	1633.3	1638.3	1638.3
20°	1526.3	1519.7	1524.6	1523.0	1529.6	1528.7	1538.6	1546.9	1552.6	1556.7	1561.7
22.5°	1499.9	1501.6	1494.1	1495.0	1495.0	1494.1	1499.1	1503.2	1504.8	1507.3	1505.7
25°	1482.6	1484.3	1481.8	1477.7	1476.0	1477.7	1480.1	1485.1	1485.9	1484.3	1478.5
27.5°	1465.3	1460.4	1464.5	1457.1	1455.4	1458.7	1462.0	1462.8	1463.7	1463.7	1458.7
30°	1439.0	1434.8	1439.0	1435.7	1432.4	1435.7	1438.1	1438.1	1439.8	1440.6	1434.8
32.5°	1005.7	1013.9	1147.4	1228.1	1341.8	1399.4	1410.1	1410.1	1411.8	1411.8	1406.8
35°	342.6	343.5	371.5	402.8	469.5	551.9	659.8	715.8	905.2	1131.7	1350.8
37.5°	338.5	337.7	336.9	336.1	335.2	334.4	332.8	331.9	336.9	399.5	542.0
40°	340.2	339.4	337.7	336.9	336.1	334.4	333.6	331.9	330.3	328.6	327.0
42.5°	340.2	339.4	338.5	337.7	336.9	336.1	334.4	332.8	331.1	328.6	326.2
45°	328.6	328.6	329.5	329.5	330.3	330.3	330.3	329.5	329.5	328.6	325.3
47.5°	307.2	307.2	309.7	309.7	311.3	313.0	313.0	314.6	317.1	318.8	319.6
50°	282.5	282.5	285.0	285.8	287.5	289.9	292.4	293.2	295.7	299.0	302.3
52.5°	257.8	257.8	260.3	260.3	261.9	264.4	266.9	267.7	271.0	274.3	278.4
55°	234.7	234.7	236.4	237.2	238.0	239.7	242.2	242.2	245.5	247.9	252.0
57.5°	214.2	215.8	215.8	215.8	216.6	218.3	219.9	219.9	222.4	224.9	228.2
60°	194.4	196.0	196.0	196.0	196.9	197.7	199.3	199.3	201.0	202.6	205.9
62.5°	176.3	177.9	177.9	178.7	178.7	179.6	181.2	180.4	182.0	182.9	185.3
65°	153.2	154.8	155.7	156.5	157.3	159.0	161.4	160.6	163.1	164.7	167.2
67.5°	131.0	132.6	132.6	133.4	134.3	135.9	137.6	137.6	140.0	141.7	145.0
70°	110.4	112.0	112.0	112.8	113.7	115.3	117.0	116.1	118.6	120.3	122.7
72.5°	91.4	93.1	93.1	93.9	93.9	95.5	97.2	98.8	98.8	100.5	102.1
75°	74.1	75.0	75.8	75.8	76.6	77.4	79.1	80.7	81.5	82.4	84.0
77.5°	58.5	59.3	60.1	60.1	61.0	61.8	62.6	65.9	67.5	68.4	68.4
80°	44.5	45.3	45.3	45.3	46.1	46.9	48.6	48.6	51.9	51.9	52.7
82.5°	31.3	32.1	32.1	32.1	32.9	34.6	35.4	36.2	37.9	38.7	38.7
85°	18.9	19.8	19.8	19.8	20.6	21.4	23.1	23.9	24.7	24.7	25.5
87.5°	7.4	8.2	9.1	9.1	9.9	10.7	11.5	12.4	13.2	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1851.6	1857.4	1851.6	1854.9	1859.0	1851.6	1834.3	1827.7	1825.3	1815.4	1808.8
5°	1954.6	1954.6	1952.1	1958.7	1957.9	1946.3	1928.2	1920.0	1911.7	1901.0	1892.8
7.5°	1881.3	1887.9	1892.0	1917.5	1934.0	1935.6	1947.2	1949.6	1952.9	1949.6	1944.7
10°	1775.8	1773.4	1784.9	1808.8	1822.8	1830.2	1852.4	1863.1	1872.2	1890.3	1909.3
12.5°	1716.5	1719.8	1724.8	1742.1	1755.2	1751.9	1761.0	1768.4	1779.1	1797.2	1824.4
15°	1677.0	1680.3	1685.2	1698.4	1706.6	1702.5	1707.5	1712.4	1719.8	1728.9	1745.4
17.5°	1634.2	1639.9	1645.7	1659.7	1667.1	1666.3	1670.4	1672.1	1674.5	1680.3	1691.8
20°	1567.4	1585.6	1597.1	1616.0	1626.7	1625.1	1632.5	1635.0	1638.3	1644.0	1649.0
22.5°	1506.5	1511.4	1517.2	1537.8	1555.9	1578.2	1583.1	1589.7	1597.9	1603.7	1608.6
25°	1471.9	1468.6	1471.1	1485.1	1495.0	1496.6	1504.0	1525.4	1547.7	1557.6	1569.1
27.5°	1451.3	1448.0	1447.2	1453.8	1455.4	1451.3	1449.7	1456.2	1472.7	1489.2	1523.8
30°	1429.1	1424.9	1421.7	1427.4	1429.9	1424.1	1413.4	1407.7	1417.5	1421.7	1435.7
32.5°	1402.7	1398.6	1396.9	1400.2	1401.9	1396.9	1385.4	1378.8	1377.2	1373.9	1377.2
35°	1373.1	1368.9	1366.5	1367.3	1370.6	1366.5	1356.6	1348.3	1344.2	1335.2	1328.6
37.5°	707.5	1002.4	1301.4	1332.7	1336.0	1335.2	1325.3	1316.2	1312.1	1301.4	1298.1
40°	323.7	361.6	542.8	709.2	1023.0	1299.8	1290.7	1281.6	1274.2	1270.9	1258.6
42.5°	322.9	323.7	324.5	320.4	397.0	676.2	998.3	1246.2	1241.3	1233.0	1224.0
45°	322.9	318.8	322.1	317.1	318.8	317.9	396.2	639.2	1137.5	1188.6	1184.4
47.5°	319.6	317.1	320.4	316.3	311.3	313.8	310.5	314.6	490.9	832.7	1140.8
50°	304.8	306.4	312.2	311.3	307.2	310.5	304.8	309.7	305.6	335.2	645.8
52.5°	282.5	285.8	291.6	296.5	298.2	302.3	300.6	302.3	299.0	299.8	300.6
55°	256.2	260.3	265.2	272.6	275.9	282.5	287.5	289.9	294.1	293.2	286.6
57.5°	231.5	235.6	239.7	247.1	254.5	257.8	266.9	271.8	282.5	280.0	278.4
60°	208.4	211.7	215.8	217.4	226.5	232.3	240.5	245.5	259.5	262.8	267.7
62.5°	187.8	189.4	192.7	195.2	201.0	206.7	210.9	219.1	226.5	237.2	244.6
65°	168.9	170.5	173.0	174.6	175.4	183.7	186.1	195.2	197.7	209.2	215.8
67.5°	147.4	150.7	154.0	155.7	157.3	162.3	163.9	168.0	173.8	178.7	187.0
70°	125.2	127.7	131.0	133.4	136.7	140.0	145.0	147.4	151.6	154.8	161.4
72.5°	104.6	107.1	108.7	111.2	113.7	116.1	120.3	126.0	129.3	135.1	136.7
75°	84.8	87.3	89.0	90.6	93.1	94.7	96.4	102.1	105.4	110.4	115.3
77.5°	70.0	70.0	71.7	76.6	75.8	75.8	77.4	80.7	83.2	86.5	91.4
80°	54.4	55.2	56.0	60.1	61.0	61.8	61.0	63.4	65.9	66.7	70.0
82.5°	40.4	41.2	41.2	43.7	46.1	46.1	46.1	46.9	49.4	50.2	51.9
85°	27.2	28.0	28.8	29.7	31.3	32.1	32.9	32.9	34.6	35.4	36.2
87.5°	14.8	16.5	17.3	18.1	18.9	19.8	20.6	21.4	22.2	23.1	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1806.3	1802.2	1799.7	1793.1	1791.5	1780.8	1782.4	1780.8	1780.8	1783.2	1791.5
5°	1883.7	1864.0	1859.0	1845.0	1833.5	1813.7	1801.4	1794.8	1784.9	1780.8	1786.5
7.5°	1936.4	1921.6	1909.3	1896.9	1880.4	1857.4	1840.1	1820.3	1803.8	1788.2	1784.1
10°	1927.4	1943.9	1943.9	1936.4	1920.8	1897.7	1877.1	1852.4	1823.6	1798.9	1784.1
12.5°	1850.8	1879.6	1902.7	1920.0	1935.6	1920.0	1899.4	1879.6	1847.5	1811.3	1784.1
15°	1766.8	1796.4	1825.3	1861.5	1899.4	1915.0	1914.2	1891.1	1862.3	1824.4	1786.5
17.5°	1707.5	1728.1	1743.7	1783.2	1829.4	1869.7	1896.9	1898.6	1870.6	1836.8	1787.4
20°	1663.0	1677.8	1691.0	1713.2	1753.6	1803.0	1853.3	1881.3	1876.3	1839.3	1789.8
22.5°	1622.6	1633.3	1644.0	1660.5	1692.6	1724.8	1783.2	1840.9	1865.6	1835.1	1787.4
25°	1582.3	1593.8	1602.0	1613.6	1639.1	1665.5	1706.6	1778.3	1833.5	1831.8	1782.4
27.5°	1534.5	1550.1	1560.0	1575.7	1593.0	1612.7	1640.8	1708.3	1787.4	1815.4	1769.2
30°	1476.8	1499.9	1514.7	1532.0	1546.9	1564.1	1586.4	1627.6	1725.6	1783.2	1755.2
32.5°	1393.6	1434.8	1467.8	1484.3	1500.7	1515.6	1535.3	1569.9	1649.8	1739.6	1739.6
35°	1334.3	1353.3	1382.9	1430.7	1451.3	1466.1	1484.3	1511.4	1562.5	1687.7	1714.1
37.5°	1288.2	1295.6	1310.5	1357.4	1396.1	1420.0	1438.1	1455.4	1505.7	1616.9	1681.1
40°	1253.6	1251.2	1249.5	1271.7	1326.9	1364.8	1385.4	1402.7	1441.4	1532.0	1637.5
42.5°	1213.3	1210.8	1202.6	1208.3	1235.5	1298.9	1330.2	1349.2	1381.3	1443.1	1589.7
45°	1171.3	1167.1	1163.8	1158.1	1168.0	1203.4	1267.6	1295.6	1313.8	1368.9	1529.6
47.5°	1128.4	1122.7	1118.5	1113.6	1107.8	1124.3	1185.3	1235.5	1266.8	1301.4	1457.1
50°	1067.5	1074.9	1069.9	1064.2	1059.2	1055.9	1081.5	1163.8	1202.6	1230.6	1368.9
52.5°	503.3	978.5	1019.7	1013.9	1007.3	1001.6	1007.3	1069.9	1140.0	1162.2	1262.7
55°	286.6	435.7	906.9	958.8	953.0	944.7	939.8	961.2	1065.8	1095.5	1165.5
57.5°	275.9	276.8	400.3	864.0	896.2	888.7	883.0	887.9	976.9	1027.1	1080.7
60°	266.9	266.9	266.9	382.2	826.1	828.6	821.2	813.0	851.7	950.5	995.0
62.5°	247.1	252.0	254.5	254.5	377.2	765.2	757.8	755.3	757.0	858.3	909.3
65°	221.6	233.1	238.0	241.3	241.3	396.2	692.7	688.6	682.8	721.5	822.8
67.5°	193.6	205.1	215.8	222.4	223.2	230.6	413.5	620.2	612.0	612.8	730.6
70°	164.7	174.6	186.1	196.0	205.1	209.2	215.8	514.8	542.0	530.4	626.0
72.5°	142.5	146.6	154.8	164.7	175.4	185.3	191.1	205.1	470.3	458.0	476.1
75°	118.6	121.9	127.7	134.3	142.5	154.0	163.9	173.8	249.6	383.8	381.4
77.5°	92.3	98.0	104.6	108.7	112.8	121.1	134.3	144.1	154.0	259.5	305.6
80°	70.8	75.0	78.2	82.4	87.3	93.1	98.0	109.5	121.1	130.1	233.9
82.5°	52.7	55.2	57.7	59.3	61.0	64.2	73.3	77.4	84.8	93.1	110.4
85°	37.1	38.7	40.4	41.2	42.0	42.8	46.1	46.9	54.4	56.0	66.7
87.5°	23.9	24.7	26.4	27.2	27.2	28.0	28.8	28.8	28.8	27.2	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1797.2	1797.2
2.5°	1798.1	1811.3
5°	1795.6	1812.9
7.5°	1789.0	1805.5
10°	1779.1	1798.9
12.5°	1768.4	1787.4
15°	1759.4	1773.4
17.5°	1749.5	1757.7
20°	1736.3	1742.9
22.5°	1723.1	1719.8
25°	1708.3	1700.9
27.5°	1689.3	1675.3
30°	1672.1	1647.3
32.5°	1655.6	1615.2
35°	1633.3	1582.3
37.5°	1610.3	1548.5
40°	1583.1	1509.8
42.5°	1554.3	1471.1
45°	1518.0	1434.0
47.5°	1485.9	1389.5
50°	1441.4	1341.8
52.5°	1387.1	1297.3
55°	1322.8	1242.9
57.5°	1253.6	1186.1
60°	1179.5	1121.0
62.5°	1089.7	1053.5
65°	984.3	976.0
67.5°	846.7	890.4
70°	694.4	792.4
72.5°	580.7	688.6
75°	476.1	572.5
77.5°	377.2	448.9
80°	235.6	328.6
82.5°	158.1	215.8
85°	95.5	103.0
87.5°	37.1	37.9
90°	0.0	0.0

(END OF REPORT)