

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-39SL-RW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-39SL-RW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

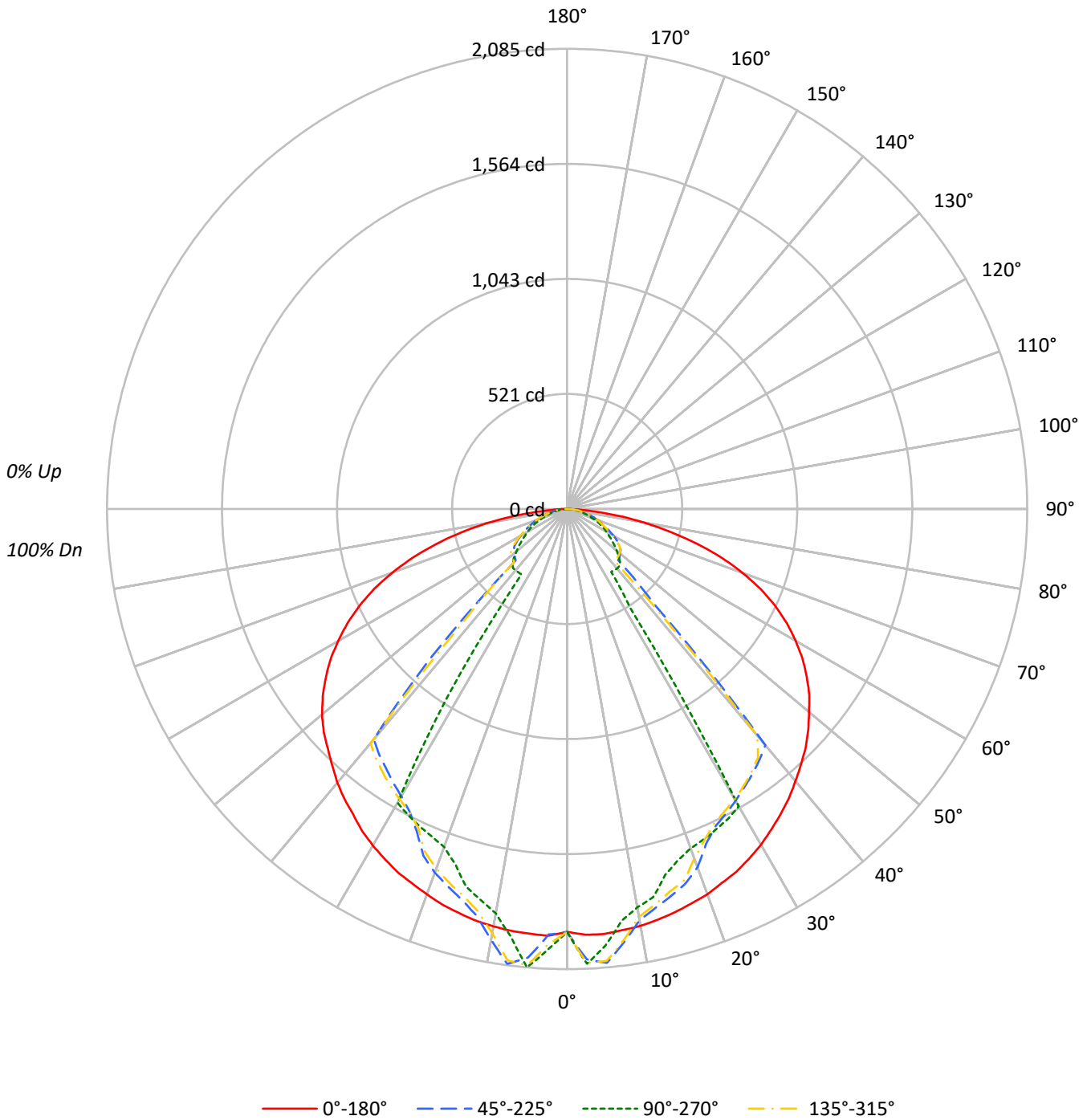
Lumens per Lamp: N/A
Luminaire Lumens: 3837.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	15484	15484	15484	15484
5°	15636	15601	15629	16373
10°	15651	14105	15673	14321
15°	15686	13050	15722	13464
20°	15799	12378	15799	12331
25°	15937	12141	15960	12027
30°	16098	11927	16138	11785
35°	16285	2716	16319	2833
40°	16546	2825	16646	2916
45°	16942	2809	17001	2912
50°	17338	2540	17572	2608
55°	17872	2255	18013	2287
60°	18323	2004	18365	2029
65°	18648	1749	18601	1721
70°	18382	1410	18323	1359
75°	17065	1085	17188	1039
80°	13852	770	14405	705
85°	7501	461	7918	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	4.9
10°-20°	518.3	13.5
20°-30°	767.8	20.0
30°-40°	773.6	20.2
40°-50°	604.3	15.7
50°-60°	466.8	12.2
60°-70°	313.4	8.2
70°-80°	159.9	4.2
80°-90°	44.5	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°	1474.6	38.4
0°-40°	2248.2	58.6
0°-60°	3319.3	86.5
0°-90°	3837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1916	1916	1916	1916	1916	
5°	1933	1986	1932	2085	1933	184
15°	1891	1717	1895	1771	1891	535
25°	1813	1600	1816	1585	1813	836
35°	1687	348	1690	363	1687	1057
45°	1529	338	1534	350	1529	1179
55°	1325	246	1336	249	1325	1183
65°	1041	165	1038	162	1041	1023
75°	610	83	615	80	610	638
85°	110	26	116	20	110	151
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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1931.0	1938.1	1943.3	1946.8	1948.6	1948.6	1949.5	1950.3	1961.8	1967.0	1970.5
5°	1932.8	1939.8	1950.3	1964.4	1976.7	1987.2	1996.0	2008.3	2020.6	2033.8	2038.2
7.5°	1924.9	1933.7	1954.7	1980.2	2003.9	2020.6	2032.0	2039.9	2046.1	2046.9	2051.3
10°	1917.9	1933.7	1962.6	1996.0	2025.9	2046.1	2046.1	2041.7	2047.8	2024.1	2000.4
12.5°	1905.6	1923.1	1962.6	2006.5	2034.6	2042.6	2039.0	2021.5	1985.5	1956.5	1943.3
15°	1890.6	1914.3	1963.5	2012.7	2036.4	2039.0	2005.7	1960.9	1933.7	1916.1	1894.1
17.5°	1873.9	1905.6	1964.4	2013.6	2022.4	2010.1	1946.8	1918.7	1890.6	1849.4	1819.5
20°	1858.1	1888.9	1957.4	2001.3	2006.5	1951.2	1902.0	1872.2	1824.8	1788.8	1775.6
22.5°	1833.6	1869.6	1951.2	1984.6	1964.4	1900.3	1852.9	1805.5	1762.4	1751.9	1736.1
25°	1813.4	1851.1	1937.2	1964.4	1910.8	1853.8	1798.4	1743.1	1722.9	1708.0	1693.9
27.5°	1786.1	1832.7	1918.7	1927.5	1853.8	1803.7	1722.9	1698.3	1679.9	1663.2	1657.0
30°	1756.3	1813.4	1893.3	1876.6	1806.3	1732.6	1672.9	1650.0	1636.9	1619.3	1612.3
32.5°	1722.0	1784.4	1865.2	1817.7	1755.4	1663.2	1624.6	1607.0	1589.4	1576.3	1532.4
35°	1686.9	1758.9	1831.8	1761.5	1693.9	1610.5	1576.3	1560.5	1543.8	1495.5	1449.8
37.5°	1650.9	1730.8	1791.4	1701.0	1612.3	1556.1	1527.1	1509.5	1471.8	1410.3	1387.5
40°	1609.6	1696.6	1739.6	1638.6	1541.1	1500.7	1473.5	1456.0	1370.8	1343.6	1336.5
42.5°	1568.4	1663.2	1676.4	1578.0	1482.3	1441.9	1419.1	1361.1	1303.2	1289.1	1291.7
45°	1528.8	1627.2	1607.0	1492.0	1420.8	1387.5	1348.8	1268.9	1238.2	1245.2	1247.0
47.5°	1481.4	1584.2	1534.1	1405.9	1357.6	1324.2	1238.2	1189.9	1185.5	1195.1	1200.4
50°	1430.5	1535.9	1456.8	1327.7	1289.1	1249.6	1152.1	1127.5	1132.8	1142.5	1148.6
52.5°	1383.1	1481.4	1376.9	1254.9	1221.5	1131.0	1065.2	1069.6	1078.4	1089.8	1093.3
55°	1325.1	1415.6	1291.7	1181.1	1149.5	1030.9	1001.1	1011.6	1020.4	1030.1	1037.1
57.5°	1264.5	1340.0	1190.8	1098.6	1047.6	942.2	944.9	951.9	958.0	969.5	400.4
60°	1195.1	1254.0	1080.1	1022.2	921.2	872.0	874.6	886.9	893.1	498.8	275.7
62.5°	1123.1	1153.9	980.0	935.2	805.3	801.7	814.0	819.3	557.6	263.4	258.2
65°	1040.6	1034.4	881.7	810.5	726.2	729.7	742.9	716.6	246.8	246.8	245.0
67.5°	949.3	912.4	785.9	670.9	649.8	657.7	671.8	234.5	228.3	230.1	223.9
70°	844.8	793.0	686.7	568.2	575.2	583.1	226.6	212.5	209.9	205.5	193.2
72.5°	734.1	663.0	562.0	493.5	497.9	312.6	198.5	191.4	182.7	173.9	160.7
75°	610.3	518.1	412.7	412.7	418.9	178.3	173.0	161.6	151.9	140.5	132.6
77.5°	478.6	398.7	320.5	332.8	162.5	149.3	139.6	127.3	119.4	112.4	108.0
80°	350.4	278.4	241.5	216.0	126.5	113.3	103.6	96.6	93.1	88.7	83.4
82.5°	230.1	167.7	167.7	101.9	88.7	78.2	75.5	70.3	66.7	64.1	61.5
85°	109.8	97.5	73.8	62.3	55.3	50.1	48.3	45.7	45.7	44.8	43.9
87.5°	40.4	43.9	32.5	31.6	29.9	29.0	29.9	29.9	30.7	29.9	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1979.3	1986.4	1991.6	2000.4	2011.8	2021.5	2030.3	2042.6	2061.9	2067.1	2071.5
5°	2038.2	2040.8	2046.9	2054.0	2055.7	2060.1	2059.2	2064.5	2067.1	2073.3	2060.1
7.5°	2041.7	2027.6	2010.9	1996.0	1985.5	1975.8	1969.7	1979.3	1984.6	1989.0	1975.8
10°	1967.9	1951.2	1941.6	1932.8	1922.2	1907.3	1887.1	1891.5	1889.8	1889.8	1885.4
12.5°	1921.4	1897.7	1873.1	1851.1	1841.5	1840.6	1841.5	1851.1	1851.1	1850.2	1845.0
15°	1848.5	1825.7	1813.4	1808.1	1808.1	1805.5	1805.5	1816.0	1813.4	1813.4	1810.7
17.5°	1800.2	1784.4	1775.6	1769.4	1766.8	1771.2	1776.5	1780.9	1781.7	1778.2	1764.2
20°	1760.7	1745.7	1735.2	1737.0	1736.1	1738.7	1741.3	1726.4	1708.0	1683.4	1672.0
22.5°	1719.4	1708.0	1700.1	1700.1	1689.5	1672.9	1648.3	1643.0	1640.4	1628.9	1619.3
25°	1679.9	1666.7	1655.3	1620.2	1598.2	1600.8	1596.5	1587.7	1586.8	1585.9	1589.4
27.5°	1640.4	1606.1	1562.2	1556.9	1548.2	1547.3	1552.5	1556.9	1556.9	1560.5	1564.8
30°	1558.7	1519.2	1511.3	1501.6	1505.1	1517.4	1520.1	1526.2	1528.0	1534.1	1537.6
32.5°	1484.1	1466.5	1459.5	1463.9	1475.3	1485.8	1492.0	1494.6	1499.0	1504.3	1508.6
35°	1423.5	1418.2	1424.3	1434.0	1445.4	1454.2	1459.5	1464.7	1469.1	1473.5	1477.0
37.5°	1378.7	1382.2	1391.0	1403.3	1414.7	1421.7	1426.1	1432.2	1438.4	1443.7	1422.6
40°	1336.5	1345.3	1355.0	1368.1	1377.8	1384.8	1389.2	1397.1	1344.4	608.6	333.7
42.5°	1299.6	1309.3	1316.3	1326.9	1337.4	1342.7	1304.0	582.2	329.3	327.5	331.9
45°	1254.9	1262.8	1274.2	1282.1	1291.7	848.3	324.0	327.5	322.3	325.8	327.5
47.5°	1209.2	1221.5	1227.6	1171.4	348.6	322.3	318.8	322.3	318.8	323.2	320.5
50°	1157.4	1172.3	834.2	315.3	312.6	310.9	314.4	312.6	315.3	318.8	311.7
52.5°	1104.7	684.1	305.6	303.8	305.6	303.8	310.0	305.6	306.5	303.0	294.2
55°	374.1	295.9	293.3	292.4	297.7	297.7	297.7	290.7	286.3	277.5	271.3
57.5°	286.3	286.3	285.4	286.3	284.5	282.8	274.9	268.7	262.6	250.3	246.8
60°	271.3	271.3	271.3	271.3	263.4	259.9	247.6	242.4	231.8	225.7	222.2
62.5°	259.1	257.3	249.4	246.8	238.0	228.3	221.3	216.0	205.5	202.0	199.3
65°	241.5	235.3	225.7	215.1	210.8	200.2	196.7	188.8	183.5	180.9	179.1
67.5°	212.5	203.7	195.8	188.8	180.9	177.4	173.0	166.8	163.3	161.6	159.8
70°	181.8	175.6	167.7	163.3	158.1	155.4	149.3	147.5	144.9	142.3	139.6
72.5°	151.9	148.4	144.9	138.7	137.0	135.2	129.1	125.6	122.1	118.5	116.8
75°	127.3	124.7	122.9	117.7	115.0	109.8	105.4	102.7	100.1	97.5	95.7
77.5°	104.5	102.7	97.5	94.0	92.2	87.8	86.1	86.9	85.2	81.7	79.9
80°	81.7	79.9	75.5	75.5	73.8	72.0	70.3	68.5	66.7	64.1	62.3
82.5°	62.3	60.6	58.8	57.1	55.3	54.4	53.6	51.8	50.1	48.3	47.4
85°	43.9	43.0	42.2	41.3	40.4	39.5	38.6	36.9	35.1	34.2	33.4
87.5°	29.9	29.0	28.1	27.2	26.3	25.5	24.6	23.7	22.0	21.1	20.2
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	2071.5	2075.9	2071.5	2061.9	2055.7	2053.1	2058.4	2058.4	2061.9	2066.3	2067.1
5°	2039.0	2028.5	2016.2	2003.9	1997.8	1994.3	1984.6	1986.4	1989.0	1990.7	1992.5
7.5°	1958.2	1944.2	1927.5	1911.7	1905.6	1900.3	1888.9	1888.9	1888.9	1889.8	1895.0
10°	1875.7	1869.6	1862.5	1852.0	1844.1	1841.5	1831.8	1834.4	1832.7	1835.3	1841.5
12.5°	1837.1	1830.0	1823.9	1813.4	1804.6	1801.1	1796.7	1799.3	1798.4	1802.8	1808.1
15°	1801.9	1798.4	1791.4	1783.5	1775.6	1768.6	1752.8	1747.5	1744.0	1739.6	1745.7
17.5°	1744.0	1719.4	1702.7	1690.4	1681.6	1675.5	1671.1	1671.1	1673.7	1676.4	1681.6
20°	1665.0	1657.9	1650.0	1636.9	1628.1	1624.6	1621.9	1621.9	1626.3	1629.8	1639.5
22.5°	1610.5	1609.6	1607.0	1600.8	1596.5	1596.5	1597.3	1599.1	1605.2	1610.5	1620.2
25°	1585.0	1588.6	1586.8	1583.3	1580.7	1581.5	1579.8	1581.5	1587.7	1592.9	1600.8
27.5°	1564.8	1570.1	1568.4	1563.1	1558.7	1560.5	1563.1	1561.3	1566.6	1572.7	1578.9
30°	1537.6	1538.5	1542.0	1535.9	1534.1	1536.7	1537.6	1539.4	1544.6	1549.0	1554.3
32.5°	1506.9	1513.9	1513.0	1506.9	1506.9	1509.5	1510.4	1451.6	1341.8	1155.6	1104.7
35°	1477.0	1484.9	1471.8	1240.8	858.8	458.4	353.9	341.6	344.2	346.0	347.7
37.5°	1092.4	518.1	330.2	332.8	335.4	338.1	340.7	343.4	346.0	348.6	349.5
40°	328.4	327.5	330.2	333.7	336.3	338.1	341.6	344.2	346.9	349.5	350.4
42.5°	324.9	326.7	329.3	332.8	336.3	339.8	342.5	346.0	347.7	349.5	350.4
45°	323.2	326.7	330.2	332.8	335.4	337.2	339.0	339.8	339.0	339.0	340.7
47.5°	320.5	324.0	324.9	324.0	324.9	324.0	324.0	324.0	321.4	320.5	320.5
50°	310.9	310.9	309.1	305.6	304.7	303.8	302.1	301.2	297.7	296.8	296.8
52.5°	290.7	289.8	287.2	282.8	281.0	279.2	278.4	277.5	274.0	272.2	273.1
55°	267.0	265.2	262.6	257.3	256.4	254.7	253.8	252.9	249.4	251.1	248.5
57.5°	245.0	241.5	238.0	237.1	233.6	232.7	231.8	231.0	228.3	229.2	227.4
60°	218.7	217.8	216.0	212.5	212.5	211.6	211.6	209.9	208.1	207.2	207.2
62.5°	199.3	196.7	194.9	194.9	192.3	192.3	192.3	190.6	188.8	189.7	188.8
65°	178.3	177.4	176.5	174.7	174.7	173.9	173.9	172.1	169.5	170.4	168.6
67.5°	160.7	158.9	157.2	156.3	152.8	151.0	150.2	149.3	145.8	146.6	144.9
70°	138.7	136.1	134.4	132.6	130.0	128.2	128.2	126.5	123.8	124.7	122.9
72.5°	115.9	114.2	112.4	111.5	108.9	108.0	107.1	106.3	103.6	104.5	103.6
75°	96.6	96.6	95.7	94.8	92.2	89.6	87.8	86.9	85.2	86.1	84.3
77.5°	79.9	78.2	76.4	76.4	73.8	72.0	70.3	70.3	70.3	69.4	68.5
80°	62.3	60.6	60.6	59.7	58.0	56.2	55.3	55.3	54.4	54.4	53.6
82.5°	47.4	45.7	44.8	44.8	43.0	42.2	41.3	40.4	40.4	40.4	39.5
85°	33.4	31.6	30.7	30.7	29.0	28.1	28.1	27.2	27.2	26.3	26.3
87.5°	20.2	19.3	18.4	18.4	16.7	15.8	15.8	15.8	14.9	14.9	14.1
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	2067.1	2067.1	2061.0	2062.7	2060.1	2063.6	2059.2	2059.2	2064.5	2064.5	2068.0
5°	1993.4	1989.0	1988.1	1986.4	1977.6	1981.1	1976.7	1972.3	1978.4	1978.4	1986.4
7.5°	1892.4	1884.5	1888.0	1882.7	1877.5	1869.6	1872.2	1868.7	1873.1	1879.2	1887.1
10°	1840.6	1833.6	1837.9	1832.7	1835.3	1823.9	1824.8	1825.7	1830.0	1831.8	1838.8
12.5°	1807.2	1805.5	1803.7	1801.9	1803.7	1797.6	1794.0	1794.9	1796.7	1797.6	1802.8
15°	1737.0	1725.5	1729.1	1716.8	1717.6	1718.5	1711.5	1718.5	1717.6	1729.1	1739.6
17.5°	1679.9	1679.9	1673.7	1668.5	1665.0	1664.1	1658.8	1662.3	1658.8	1665.8	1668.5
20°	1640.4	1639.5	1638.6	1636.0	1627.2	1628.1	1630.7	1622.8	1621.9	1621.0	1626.3
22.5°	1621.9	1622.8	1619.3	1619.3	1611.4	1613.1	1614.0	1605.2	1606.1	1603.5	1606.1
25°	1602.6	1604.4	1600.0	1600.0	1598.2	1597.3	1592.9	1594.7	1589.4	1585.0	1589.4
27.5°	1579.8	1583.3	1579.8	1581.5	1578.0	1576.3	1573.6	1571.9	1566.6	1565.7	1568.4
30°	1558.7	1560.5	1559.6	1555.2	1554.3	1549.0	1551.7	1546.4	1541.1	1542.0	1543.8
32.5°	799.1	763.1	588.4	531.3	526.0	545.3	646.3	786.8	1019.5	1245.2	1407.7
35°	348.6	348.6	348.6	347.7	347.7	346.9	346.0	345.1	344.2	343.4	342.5
37.5°	350.4	350.4	350.4	350.4	349.5	348.6	348.6	346.9	346.0	345.1	344.2
40°	351.3	352.1	352.1	352.1	351.3	351.3	350.4	348.6	347.7	346.0	344.2
42.5°	350.4	351.3	351.3	350.4	350.4	349.5	349.5	348.6	347.7	346.9	346.0
45°	339.0	339.8	338.1	338.1	337.2	337.2	337.2	337.2	337.2	338.1	338.1
47.5°	318.8	318.8	317.9	317.0	317.0	316.1	317.0	316.1	317.9	318.8	320.5
50°	295.1	295.1	293.3	292.4	292.4	292.4	292.4	293.3	294.2	295.9	297.7
52.5°	270.5	270.5	269.6	268.7	267.8	267.8	270.5	269.6	270.5	271.3	274.0
55°	246.8	247.6	245.9	245.9	245.0	245.0	245.0	245.9	246.8	247.6	250.3
57.5°	226.6	226.6	224.8	224.8	224.8	223.9	226.6	224.8	225.7	226.6	228.3
60°	206.4	205.5	205.5	204.6	204.6	204.6	206.4	205.5	205.5	206.4	208.1
62.5°	187.9	187.9	187.0	187.0	186.2	186.2	187.9	187.0	187.0	187.9	188.8
65°	166.8	166.8	166.0	165.1	167.7	165.1	167.7	166.0	167.7	168.6	170.4
67.5°	143.1	143.1	143.1	142.3	142.3	144.0	144.9	143.1	144.0	145.8	146.6
70°	122.1	122.1	121.2	121.2	121.2	122.9	123.8	122.1	122.9	123.8	125.6
72.5°	103.6	101.9	101.9	101.0	102.7	102.7	103.6	102.7	103.6	103.6	105.4
75°	85.2	83.4	83.4	83.4	85.2	84.3	85.2	84.3	85.2	85.2	86.1
77.5°	68.5	67.6	66.7	66.7	68.5	68.5	68.5	67.6	68.5	69.4	70.3
80°	53.6	52.7	51.8	51.8	53.6	53.6	53.6	54.4	53.6	54.4	55.3
82.5°	39.5	38.6	37.8	39.5	39.5	39.5	39.5	40.4	39.5	40.4	41.3
85°	26.3	25.5	24.6	26.3	26.3	26.3	26.3	27.2	26.3	27.2	28.1
87.5°	14.1	13.2	13.2	14.1	14.1	14.1	14.9	14.9	14.9	15.8	15.8
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	2073.3	2075.9	2075.0	2069.8	2064.5	2058.4	2054.0	2054.8	2063.6	2066.3	2058.4
5°	1986.4	2003.0	2003.0	2014.5	2008.3	2003.0	2006.5	2025.9	2035.5	2050.5	2055.7
7.5°	1896.8	1904.7	1903.8	1915.2	1913.5	1913.5	1916.1	1941.6	1953.9	1966.2	1969.7
10°	1846.7	1854.6	1853.8	1854.6	1852.0	1845.8	1845.8	1857.3	1867.8	1873.9	1875.7
12.5°	1810.7	1815.1	1814.2	1814.2	1812.5	1807.2	1806.3	1816.0	1827.4	1835.3	1836.2
15°	1757.2	1769.4	1772.1	1783.5	1780.9	1773.8	1775.6	1783.5	1790.5	1797.6	1794.9
17.5°	1677.2	1683.4	1684.3	1688.7	1686.9	1686.9	1697.4	1726.4	1745.7	1762.4	1764.2
20°	1631.6	1636.0	1634.2	1643.9	1639.5	1638.6	1641.2	1653.5	1662.3	1670.2	1684.3
22.5°	1609.6	1613.1	1610.5	1611.4	1603.5	1596.5	1594.7	1604.4	1614.0	1624.6	1624.6
25°	1591.2	1593.8	1592.9	1591.2	1585.0	1575.4	1573.6	1575.4	1578.9	1579.8	1573.6
27.5°	1569.2	1571.0	1571.0	1571.9	1564.0	1555.2	1553.4	1551.7	1555.2	1554.3	1544.6
30°	1546.4	1543.8	1544.6	1545.5	1538.5	1530.6	1527.1	1526.2	1529.7	1528.8	1519.2
32.5°	1492.0	1512.2	1513.9	1515.7	1509.5	1502.5	1499.0	1496.3	1498.1	1497.2	1488.4
35°	341.6	347.7	425.9	964.2	1309.3	1449.8	1464.7	1461.2	1462.1	1462.1	1455.1
37.5°	342.5	341.6	340.7	338.1	335.4	333.7	576.9	1230.3	1425.2	1426.1	1420.0
40°	342.5	341.6	340.7	339.0	335.4	332.8	328.4	324.9	332.8	732.4	1340.0
42.5°	344.2	342.5	340.7	339.0	335.4	331.9	328.4	324.0	326.7	324.9	320.5
45°	339.0	338.1	338.1	337.2	335.4	331.9	327.5	322.3	319.6	322.3	317.9
47.5°	322.3	323.2	325.8	326.7	326.7	327.5	324.9	321.4	317.0	319.6	314.4
50°	299.4	301.2	302.1	306.5	308.2	311.7	312.6	312.6	311.7	315.3	311.7
52.5°	274.9	276.6	281.0	282.8	284.5	289.8	291.5	294.2	295.9	301.2	304.7
55°	251.1	252.0	253.8	257.3	259.9	264.3	267.0	269.6	274.0	276.6	287.2
57.5°	229.2	230.1	233.6	234.5	236.2	239.7	242.4	245.9	249.4	251.1	263.4
60°	208.1	209.0	211.6	212.5	213.4	216.9	219.5	222.2	224.8	226.6	235.3
62.5°	189.7	189.7	192.3	192.3	193.2	195.8	197.6	199.3	202.0	202.9	207.2
65°	171.2	172.1	173.9	173.9	174.7	176.5	177.4	178.3	180.9	180.9	184.4
67.5°	148.4	149.3	151.9	153.7	154.6	158.1	158.9	159.8	161.6	162.5	164.2
70°	126.5	127.3	130.0	130.8	131.7	134.4	136.1	138.7	141.4	144.0	145.8
72.5°	106.3	107.1	109.8	109.8	112.4	113.3	115.0	115.9	118.5	120.3	122.9
75°	86.9	87.8	90.4	90.4	93.1	94.0	94.8	95.7	97.5	99.2	101.0
77.5°	71.1	71.1	74.6	76.4	78.2	78.2	79.0	79.0	79.0	79.9	81.7
80°	56.2	56.2	58.8	60.6	62.3	62.3	63.2	64.1	65.0	65.0	65.9
82.5°	42.2	42.2	44.8	45.7	47.4	47.4	47.4	48.3	49.2	48.3	50.1
85°	29.0	29.0	30.7	31.6	33.4	33.4	33.4	34.2	35.1	34.2	35.1
87.5°	16.7	17.6	18.4	19.3	20.2	21.1	21.1	21.1	22.0	22.0	22.8
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	2049.6	2039.0	2038.2	2025.9	2022.4	2023.2	2013.6	2010.1	1994.3	1990.7	1974.1
5°	2057.5	2062.7	2060.1	2059.2	2061.9	2060.1	2053.1	2049.6	2046.9	2039.9	2025.9
7.5°	1970.5	1974.1	1976.7	1988.1	1997.8	2014.5	2032.0	2043.4	2052.2	2054.0	2042.6
10°	1881.9	1898.5	1910.0	1927.5	1941.6	1951.2	1961.8	1971.4	1996.9	2022.4	2037.3
12.5°	1836.2	1840.6	1839.7	1849.4	1859.0	1884.5	1909.1	1923.1	1942.4	1953.9	1981.1
15°	1797.6	1798.4	1801.1	1808.1	1813.4	1822.1	1833.6	1854.6	1893.3	1910.8	1925.8
17.5°	1762.4	1762.4	1764.2	1770.3	1777.4	1785.3	1792.3	1801.1	1820.4	1849.4	1886.2
20°	1706.2	1730.8	1733.4	1732.6	1736.1	1751.0	1752.8	1768.6	1778.2	1789.6	1825.7
22.5°	1622.8	1637.7	1658.8	1691.3	1703.6	1710.6	1715.9	1722.9	1737.8	1751.0	1765.9
25°	1577.1	1586.8	1592.9	1602.6	1628.1	1669.3	1677.2	1685.1	1694.8	1704.5	1722.9
27.5°	1536.7	1535.9	1540.3	1549.0	1556.1	1578.0	1616.7	1647.4	1649.1	1663.2	1679.0
30°	1507.8	1502.5	1496.3	1494.6	1504.3	1515.7	1527.1	1575.4	1608.8	1615.8	1632.5
32.5°	1480.5	1471.8	1463.0	1456.0	1449.8	1459.5	1466.5	1487.6	1530.6	1571.0	1579.8
35°	1447.2	1438.4	1427.9	1420.0	1410.3	1409.4	1408.5	1428.7	1442.8	1491.1	1533.2
37.5°	1412.9	1403.3	1394.5	1385.7	1376.0	1369.0	1364.6	1369.9	1383.1	1404.1	1474.4
40°	1376.9	1365.5	1356.7	1349.7	1336.5	1331.3	1322.5	1319.0	1319.8	1338.3	1375.2
42.5°	822.8	1311.9	1316.3	1308.4	1297.0	1290.0	1280.3	1275.9	1267.2	1275.9	1297.0
45°	317.0	320.5	959.8	1268.0	1254.0	1245.2	1236.4	1232.0	1222.4	1215.3	1234.7
47.5°	310.9	314.4	307.3	435.6	1196.9	1199.5	1189.0	1184.6	1174.9	1169.7	1164.4
50°	306.5	309.1	303.8	305.6	299.4	1096.8	1140.7	1135.4	1124.9	1118.7	1108.2
52.5°	302.1	302.1	298.6	294.2	292.4	293.3	922.9	1085.4	1073.1	1066.9	1052.9
55°	288.0	289.8	293.3	286.3	284.5	283.6	281.0	879.0	1016.0	1009.0	996.7
57.5°	267.0	270.5	280.1	278.4	278.4	271.3	269.6	269.6	815.8	950.1	937.9
60°	242.4	245.9	256.4	259.9	262.6	260.8	259.1	258.2	254.7	859.7	875.5
62.5°	216.9	220.4	223.9	235.3	238.9	243.2	248.5	245.9	242.4	242.4	809.6
65°	189.7	194.9	196.7	207.2	211.6	219.5	223.9	230.1	228.3	227.4	231.8
67.5°	166.0	172.1	173.0	177.4	185.3	188.8	194.1	205.5	210.8	212.5	214.3
70°	145.8	149.3	151.9	153.7	158.9	159.8	169.5	177.4	185.3	194.1	196.7
72.5°	125.6	128.2	133.5	131.7	133.5	137.0	142.3	147.5	155.4	167.7	175.6
75°	102.7	104.5	108.0	109.8	113.3	115.9	119.4	123.8	130.8	137.0	147.5
77.5°	82.5	83.4	86.1	86.9	90.4	93.1	99.2	101.9	106.3	110.6	116.8
80°	66.7	66.7	67.6	67.6	70.3	72.9	77.3	79.9	85.2	88.7	88.7
82.5°	50.9	50.9	53.6	53.6	55.3	55.3	58.0	58.0	60.6	62.3	64.1
85°	36.0	36.9	38.6	37.8	39.5	38.6	40.4	42.2	43.0	42.2	41.3
87.5°	23.7	23.7	25.5	24.6	25.5	25.5	27.2	27.2	28.1	28.1	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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1967.9	1954.7	1946.8	1937.2	1934.5	1931.9	1935.4	1935.4	1930.1	1925.8	1917.9
5°	2013.6	1999.5	1984.6	1968.8	1953.9	1938.1	1931.9	1931.0	1921.4	1916.1	1913.5
7.5°	2037.3	2030.3	2013.6	1991.6	1968.8	1940.7	1928.4	1921.4	1911.7	1910.0	1910.0
10°	2039.9	2032.0	2023.2	2007.4	1981.1	1944.2	1920.5	1906.4	1897.7	1903.8	1915.2
12.5°	2014.5	2029.4	2021.5	2010.9	1989.9	1945.1	1910.8	1889.8	1887.1	1902.9	1932.8
15°	1949.5	1993.4	2015.3	2004.8	1988.1	1943.3	1895.0	1870.4	1870.4	1902.9	1941.6
17.5°	1900.3	1934.5	1988.1	1996.9	1977.6	1939.8	1880.1	1851.1	1859.0	1906.4	1947.7
20°	1859.9	1881.0	1932.8	1982.0	1963.5	1931.9	1858.1	1828.3	1844.1	1901.2	1956.5
22.5°	1796.7	1838.8	1870.4	1943.3	1949.5	1917.0	1836.2	1800.2	1831.8	1901.2	1952.1
25°	1735.2	1786.1	1819.5	1890.6	1928.4	1898.5	1816.0	1770.3	1818.6	1898.5	1948.6
27.5°	1692.2	1715.9	1776.5	1827.4	1896.8	1873.9	1788.8	1737.8	1801.9	1884.5	1928.4
30°	1646.5	1662.3	1722.0	1770.3	1854.6	1845.8	1760.7	1701.8	1780.9	1871.3	1875.7
32.5°	1596.5	1614.0	1644.8	1715.0	1795.8	1819.5	1729.1	1665.8	1758.0	1851.1	1814.2
35°	1545.5	1558.7	1583.3	1658.8	1727.3	1780.0	1690.4	1624.6	1742.2	1820.4	1755.4
37.5°	1494.6	1508.6	1529.7	1592.9	1655.3	1743.1	1657.0	1583.3	1713.2	1765.9	1693.9
40°	1446.3	1454.2	1476.2	1515.7	1595.6	1705.3	1619.3	1540.3	1683.4	1696.6	1610.5
42.5°	1357.6	1397.1	1417.3	1448.9	1528.0	1653.5	1575.4	1494.6	1650.0	1627.2	1527.1
45°	1261.9	1347.9	1356.7	1388.3	1468.2	1598.2	1534.1	1449.8	1618.4	1567.5	1448.1
47.5°	1183.7	1246.1	1297.0	1323.4	1397.1	1533.2	1495.5	1412.0	1571.0	1492.0	1370.8
50°	1114.4	1147.7	1239.9	1259.3	1311.9	1455.1	1449.8	1368.1	1505.1	1397.1	1295.3
52.5°	1046.7	1070.5	1153.9	1195.1	1238.2	1370.8	1395.4	1325.1	1433.1	1302.3	1218.9
55°	987.9	995.8	1041.5	1128.4	1167.0	1285.6	1335.6	1275.1	1341.8	1211.8	1145.1
57.5°	927.3	920.3	953.7	1065.2	1093.3	1198.7	1272.4	1224.1	1268.0	1119.6	1068.7
60°	864.1	854.4	868.5	942.2	1015.1	1112.6	1197.8	1167.9	1178.5	1028.3	983.5
62.5°	798.2	788.6	784.2	830.7	938.7	1023.9	1122.3	1105.6	1068.7	944.9	878.1
65°	729.7	720.1	713.0	731.5	854.4	908.9	1038.0	1033.6	948.4	857.1	739.4
67.5°	222.2	655.1	640.2	639.3	720.1	804.4	946.6	939.6	827.2	763.1	636.7
70°	200.2	531.3	564.6	556.7	591.9	698.1	842.1	836.9	709.5	612.1	562.9
72.5°	183.5	187.9	498.8	490.0	497.9	593.6	733.2	719.2	601.5	483.0	486.5
75°	157.2	165.1	172.1	413.6	403.1	491.8	614.7	592.7	496.1	398.7	406.6
77.5°	128.2	137.9	143.1	301.2	325.8	350.4	490.9	461.9	341.6	318.8	151.9
80°	95.7	103.6	112.4	120.3	247.6	245.0	364.4	335.4	238.0	198.5	118.5
82.5°	70.3	72.9	78.2	86.9	98.4	164.2	234.5	206.4	165.1	90.4	81.7
85°	43.9	47.4	50.1	52.7	59.7	98.4	115.9	92.2	69.4	55.3	51.8
87.5°	28.1	28.1	27.2	28.1	29.0	35.1	39.5	37.8	29.9	28.1	28.1
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1909.1	1896.8	1896.8	1893.3	1895.9	1895.9	1895.0	1895.9	1902.0	1905.6	1911.7
5°	1908.2	1904.7	1912.6	1922.2	1933.7	1947.7	1951.2	1963.5	1974.9	1989.9	2005.7
7.5°	1919.6	1931.9	1946.8	1962.6	1985.5	2002.2	2017.1	2032.0	2042.6	2056.6	2065.4
10°	1936.3	1960.9	1986.4	2006.5	2031.1	2045.2	2054.8	2056.6	2041.7	2018.0	1998.6
12.5°	1960.0	1989.0	2012.7	2032.0	2043.4	2038.2	2010.1	1981.1	1964.4	1939.8	1905.6
15°	1980.2	2006.5	2031.1	2023.2	1992.5	1963.5	1941.6	1907.3	1873.9	1851.1	1836.2
17.5°	1989.0	2014.5	2005.7	1964.4	1935.4	1902.0	1857.3	1830.9	1809.0	1791.4	1782.6
20°	1994.3	1989.9	1942.4	1912.6	1856.4	1825.7	1796.7	1772.1	1755.4	1746.6	1744.9
22.5°	1980.2	1926.6	1886.2	1832.7	1791.4	1765.9	1743.1	1722.9	1711.5	1704.5	1700.1
25°	1933.7	1871.3	1811.6	1769.4	1734.3	1712.4	1694.8	1678.1	1664.1	1660.6	1651.8
27.5°	1868.7	1817.7	1738.7	1706.2	1675.5	1665.0	1645.6	1628.9	1616.7	1606.1	1578.0
30°	1815.1	1734.3	1677.2	1647.4	1628.9	1616.7	1594.7	1577.1	1556.1	1517.4	1501.6
32.5°	1749.3	1669.3	1614.9	1598.2	1575.4	1564.8	1540.3	1501.6	1469.1	1453.3	1452.4
35°	1664.1	1598.2	1558.7	1543.8	1525.3	1507.8	1456.8	1421.7	1405.9	1407.7	1420.8
37.5°	1592.9	1534.1	1508.6	1487.6	1466.5	1421.7	1378.7	1362.0	1366.4	1375.2	1381.3
40°	1520.9	1476.2	1447.2	1430.5	1383.1	1339.2	1316.3	1322.5	1330.4	1336.5	1344.4
42.5°	1450.7	1419.1	1390.1	1357.6	1292.6	1268.9	1274.2	1282.1	1289.1	1297.9	1305.8
45°	1383.9	1355.8	1322.5	1248.7	1216.2	1222.4	1230.3	1236.4	1247.0	1253.1	1261.0
47.5°	1320.7	1290.9	1232.0	1167.0	1163.5	1175.8	1182.9	1190.8	1198.7	1182.9	652.5
50°	1249.6	1218.9	1129.3	1104.7	1112.6	1124.0	1132.8	1140.7	1016.0	403.9	310.9
52.5°	1179.3	1101.2	1044.1	1051.1	1059.0	1072.2	1078.4	800.9	318.8	303.8	304.7
55°	1101.2	1001.1	984.4	993.2	1000.2	1013.4	671.8	294.2	292.4	291.5	298.6
57.5°	978.2	917.7	924.7	933.5	940.5	663.9	286.3	284.5	285.4	286.3	287.2
60°	868.5	855.3	863.2	871.1	616.5	276.6	271.3	272.2	275.7	273.1	266.1
62.5°	781.5	792.1	800.0	700.8	262.6	259.9	262.6	259.9	253.8	249.4	240.6
65°	714.8	725.3	731.5	246.8	245.9	249.4	246.8	238.0	228.3	216.0	213.4
67.5°	644.6	655.1	234.5	228.3	231.8	227.4	216.9	206.4	199.3	188.8	184.4
70°	571.7	245.0	212.5	211.6	205.5	198.5	187.0	176.5	167.7	163.3	158.9
72.5°	412.7	194.1	191.4	184.4	173.9	164.2	154.6	148.4	144.0	141.4	138.7
75°	172.1	168.6	160.7	148.4	137.9	133.5	126.5	122.1	120.3	115.0	113.3
77.5°	144.0	137.0	125.6	116.8	110.6	108.0	102.7	97.5	94.8	94.0	90.4
80°	110.6	101.0	95.7	91.3	89.6	83.4	77.3	74.6	72.9	72.0	69.4
82.5°	75.5	72.0	68.5	62.3	62.3	59.7	57.1	55.3	53.6	53.6	51.8
85°	49.2	46.5	45.7	43.0	43.0	41.3	40.4	39.5	38.6	37.8	36.9
87.5°	28.1	28.1	29.0	28.1	28.1	27.2	26.3	25.5	24.6	24.6	22.8
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1919.6	1928.4	1930.1	1960.0	1976.7	1975.8	1970.5	1986.4	1976.7	1971.4	1976.7
5°	2021.5	2032.0	2040.8	2073.3	2084.7	2090.0	2089.1	2097.9	2090.8	2084.7	2084.7
7.5°	2071.5	2075.0	2078.6	2070.7	2065.4	2056.6	2043.4	2024.1	2014.5	2003.9	1990.7
10°	1989.0	1977.6	1982.0	1966.2	1953.0	1943.3	1931.0	1915.2	1902.0	1892.4	1877.5
12.5°	1888.0	1887.1	1888.9	1891.5	1878.3	1870.4	1860.8	1849.4	1839.7	1829.2	1816.9
15°	1826.5	1827.4	1834.4	1831.8	1827.4	1823.0	1812.5	1809.0	1800.2	1788.8	1781.7
17.5°	1782.6	1787.0	1794.0	1790.5	1783.5	1779.1	1771.2	1763.3	1755.4	1746.6	1736.1
20°	1744.0	1748.4	1752.8	1748.4	1735.2	1729.1	1718.5	1693.9	1676.4	1658.8	1643.0
22.5°	1701.8	1704.5	1701.0	1686.9	1653.5	1637.7	1625.4	1618.4	1603.5	1593.8	1584.2
25°	1649.1	1634.2	1611.4	1595.6	1582.4	1575.4	1570.1	1569.2	1567.5	1565.7	1561.3
27.5°	1563.1	1557.8	1545.5	1539.4	1540.3	1542.9	1543.8	1546.4	1543.8	1540.3	1536.7
30°	1499.0	1501.6	1502.5	1504.3	1508.6	1511.3	1512.2	1515.7	1513.9	1511.3	1509.5
32.5°	1458.6	1464.7	1468.2	1473.5	1476.2	1480.5	1480.5	1485.8	1480.5	1479.7	1477.9
35°	1425.2	1430.5	1432.2	1440.1	1442.8	1447.2	1447.2	1451.6	1447.2	1402.4	1107.3
37.5°	1391.9	1397.1	1400.6	1407.7	1408.5	1411.2	1302.3	952.8	614.7	476.0	363.5
40°	1352.3	1358.5	1362.0	1364.6	958.9	608.6	418.9	340.7	340.7	343.4	346.0
42.5°	1310.2	1314.6	915.9	533.0	331.9	331.1	333.7	336.3	339.0	342.5	346.0
45°	1030.1	519.9	330.2	322.3	324.9	328.4	331.9	335.4	339.8	343.4	345.1
47.5°	338.1	317.0	321.4	317.9	322.3	326.7	330.2	333.7	334.6	335.4	334.6
50°	312.6	312.6	315.3	315.3	318.8	320.5	320.5	320.5	317.0	316.1	313.5
52.5°	302.1	309.1	305.6	307.3	305.6	303.0	300.3	297.7	292.4	290.7	287.2
55°	296.8	299.4	290.7	288.0	284.5	277.5	274.0	270.5	266.1	264.3	259.9
57.5°	284.5	278.4	268.7	264.3	258.2	251.1	247.6	245.0	240.6	238.9	236.2
60°	261.7	249.4	243.2	238.0	231.0	224.8	222.2	220.4	216.9	216.0	213.4
62.5°	233.6	223.0	217.8	210.8	205.5	202.0	199.3	198.5	194.9	194.9	193.2
65°	202.9	197.6	193.2	186.2	183.5	180.0	179.1	178.3	176.5	175.6	173.9
67.5°	178.3	174.7	168.6	165.1	163.3	160.7	158.9	157.2	153.7	151.9	149.3
70°	156.3	153.7	147.5	144.9	141.4	137.0	134.4	132.6	130.0	128.2	125.6
72.5°	135.2	127.3	122.9	120.3	117.7	113.3	112.4	110.6	108.0	107.1	104.5
75°	108.9	102.7	100.1	98.4	95.7	93.1	93.1	93.1	90.4	89.6	88.7
77.5°	86.9	83.4	81.7	79.9	79.0	77.3	74.6	73.8	71.1	71.1	70.3
80°	66.7	65.0	63.2	62.3	61.5	59.7	58.0	57.1	54.4	54.4	53.6
82.5°	49.2	48.3	47.4	46.5	45.7	44.8	42.2	41.3	39.5	39.5	38.6
85°	35.1	34.2	32.5	31.6	31.6	30.7	28.1	27.2	25.5	25.5	25.5
87.5°	22.0	21.1	20.2	19.3	18.4	17.6	15.8	14.9	14.9	13.2	12.3
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1966.2	1981.1	1979.3	1989.9	1992.5	1997.8	1999.5	2000.4	1987.2	1997.8	1998.6
5°	2082.1	2084.7	2086.5	2090.8	2095.2	2096.1	2091.7	2086.5	2088.2	2084.7	2075.9
7.5°	1989.0	1975.8	1973.2	1969.7	1967.9	1966.2	1958.2	1965.3	1957.4	1953.9	1941.6
10°	1874.8	1862.5	1861.7	1861.7	1864.3	1863.4	1861.7	1858.1	1865.2	1860.8	1858.1
12.5°	1815.1	1810.7	1813.4	1811.6	1818.6	1820.4	1818.6	1818.6	1816.9	1813.4	1815.1
15°	1779.1	1775.6	1778.2	1775.6	1780.9	1781.7	1777.4	1780.0	1775.6	1771.2	1769.4
17.5°	1731.7	1723.8	1717.6	1708.9	1709.7	1708.0	1702.7	1702.7	1698.3	1686.9	1687.8
20°	1640.4	1632.5	1628.9	1628.9	1633.3	1635.1	1634.2	1636.0	1631.6	1629.8	1622.8
22.5°	1583.3	1582.4	1584.2	1588.6	1595.6	1605.2	1606.1	1606.1	1606.1	1605.2	1596.5
25°	1563.1	1563.1	1564.8	1571.0	1576.3	1583.3	1585.0	1586.8	1585.0	1585.0	1577.1
27.5°	1540.3	1538.5	1542.0	1548.2	1554.3	1559.6	1564.0	1564.8	1562.2	1562.2	1564.8
30°	1512.2	1511.3	1515.7	1521.8	1527.1	1532.4	1536.7	1540.3	1536.7	1536.7	1534.1
32.5°	1483.2	1483.2	1484.9	1448.1	1342.7	1209.2	1211.8	1134.6	1081.0	1013.4	1102.9
35°	925.6	673.5	578.7	490.0	427.7	387.3	386.4	373.2	367.1	362.7	361.8
37.5°	349.5	351.3	354.8	356.5	359.2	360.9	361.8	361.8	361.8	361.8	360.9
40°	348.6	352.1	354.8	357.4	360.0	361.8	361.8	362.7	363.5	363.5	363.5
42.5°	349.5	353.0	356.5	359.2	360.9	361.8	362.7	363.5	363.5	363.5	363.5
45°	348.6	350.4	350.4	351.3	351.3	351.3	352.1	352.1	351.3	350.4	352.1
47.5°	335.4	335.4	332.8	331.9	331.1	329.3	330.2	329.3	328.4	327.5	329.3
50°	312.6	309.1	307.3	305.6	304.7	303.0	303.8	303.0	302.1	300.3	303.0
52.5°	285.4	284.5	281.0	279.2	278.4	279.2	277.5	276.6	275.7	274.9	275.7
55°	259.1	255.5	254.7	252.9	252.0	252.9	252.0	251.1	250.3	249.4	250.3
57.5°	235.3	232.7	231.8	230.1	230.1	230.1	230.1	229.2	228.3	227.4	228.3
60°	212.5	210.8	209.9	209.9	209.0	209.0	209.0	208.1	207.2	207.2	208.1
62.5°	193.2	193.2	190.6	189.7	189.7	190.6	189.7	188.8	187.9	187.0	188.8
65°	173.0	169.5	168.6	166.8	165.1	166.0	165.1	164.2	163.3	162.5	164.2
67.5°	148.4	147.5	144.0	142.3	141.4	142.3	141.4	140.5	139.6	138.7	140.5
70°	124.7	124.7	121.2	120.3	119.4	119.4	118.5	118.5	117.7	116.8	118.5
72.5°	103.6	103.6	102.7	101.0	100.1	99.2	98.4	97.5	97.5	98.4	98.4
75°	86.1	84.3	80.8	81.7	80.8	79.9	79.9	79.0	78.2	79.9	79.0
77.5°	67.6	66.7	64.1	65.0	64.1	63.2	63.2	62.3	61.5	62.3	62.3
80°	50.9	50.9	50.1	49.2	49.2	48.3	47.4	47.4	46.5	47.4	47.4
82.5°	36.9	36.9	36.0	35.1	34.2	34.2	33.4	33.4	33.4	33.4	33.4
85°	23.7	22.8	22.8	21.1	21.1	21.1	20.2	20.2	20.2	20.2	20.2
87.5°	11.4	11.4	10.5	10.5	9.7	8.8	8.8	7.9	7.9	8.8	8.8
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1982.8	1994.3	1984.6	1989.0	1989.9	2004.8	2003.9	2007.4	2001.3	1994.3	1984.6
5°	2083.8	2078.6	2071.5	2088.2	2079.4	2090.0	2093.5	2100.5	2100.5	2099.6	2091.7
7.5°	1954.7	1943.3	1952.1	1958.2	1960.9	1953.9	1967.9	1983.7	1996.9	2004.8	2005.7
10°	1853.8	1857.3	1856.4	1859.0	1865.2	1864.3	1873.1	1881.9	1885.4	1890.6	1892.4
12.5°	1806.3	1805.5	1807.2	1813.4	1816.9	1816.0	1824.8	1830.0	1831.8	1832.7	1831.8
15°	1768.6	1762.4	1766.8	1767.7	1770.3	1770.3	1780.9	1788.8	1792.3	1794.0	1792.3
17.5°	1697.4	1682.5	1696.6	1696.6	1706.2	1704.5	1721.2	1734.3	1741.3	1746.6	1746.6
20°	1627.2	1620.2	1625.4	1623.7	1630.7	1629.8	1640.4	1649.1	1655.3	1659.7	1665.0
22.5°	1599.1	1600.8	1592.9	1593.8	1593.8	1592.9	1598.2	1602.6	1604.4	1607.0	1605.2
25°	1580.7	1582.4	1579.8	1575.4	1573.6	1575.4	1578.0	1583.3	1584.2	1582.4	1576.3
27.5°	1562.2	1556.9	1561.3	1553.4	1551.7	1555.2	1558.7	1559.6	1560.5	1560.5	1555.2
30°	1534.1	1529.7	1534.1	1530.6	1527.1	1530.6	1533.2	1533.2	1535.0	1535.9	1529.7
32.5°	1072.2	1081.0	1223.2	1309.3	1430.5	1492.0	1503.4	1503.4	1505.1	1505.1	1499.9
35°	365.3	366.2	396.0	429.4	500.5	588.4	703.4	763.1	965.1	1206.6	1440.1
37.5°	360.9	360.0	359.2	358.3	357.4	356.5	354.8	353.9	359.2	425.9	577.8
40°	362.7	361.8	360.0	359.2	358.3	356.5	355.6	353.9	352.1	350.4	348.6
42.5°	362.7	361.8	360.9	360.0	359.2	358.3	356.5	354.8	353.0	350.4	347.7
45°	350.4	350.4	351.3	351.3	352.1	352.1	352.1	351.3	351.3	350.4	346.9
47.5°	327.5	327.5	330.2	330.2	331.9	333.7	333.7	335.4	338.1	339.8	340.7
50°	301.2	301.2	303.8	304.7	306.5	309.1	311.7	312.6	315.3	318.8	322.3
52.5°	274.9	274.9	277.5	277.5	279.2	281.9	284.5	285.4	288.9	292.4	296.8
55°	250.3	250.3	252.0	252.9	253.8	255.5	258.2	258.2	261.7	264.3	268.7
57.5°	228.3	230.1	230.1	230.1	231.0	232.7	234.5	234.5	237.1	239.7	243.2
60°	207.2	209.0	209.0	209.0	209.9	210.8	212.5	212.5	214.3	216.0	219.5
62.5°	187.9	189.7	189.7	190.6	190.6	191.4	193.2	192.3	194.1	194.9	197.6
65°	163.3	165.1	166.0	166.8	167.7	169.5	172.1	171.2	173.9	175.6	178.3
67.5°	139.6	141.4	141.4	142.3	143.1	144.9	146.6	146.6	149.3	151.0	154.6
70°	117.7	119.4	119.4	120.3	121.2	122.9	124.7	123.8	126.5	128.2	130.8
72.5°	97.5	99.2	99.2	100.1	100.1	101.9	103.6	105.4	105.4	107.1	108.9
75°	79.0	79.9	80.8	80.8	81.7	82.5	84.3	86.1	86.9	87.8	89.6
77.5°	62.3	63.2	64.1	64.1	65.0	65.9	66.7	70.3	72.0	72.9	72.9
80°	47.4	48.3	48.3	48.3	49.2	50.1	51.8	51.8	55.3	55.3	56.2
82.5°	33.4	34.2	34.2	34.2	35.1	36.9	37.8	38.6	40.4	41.3	41.3
85°	20.2	21.1	21.1	21.1	22.0	22.8	24.6	25.5	26.3	26.3	27.2
87.5°	7.9	8.8	9.7	9.7	10.5	11.4	12.3	13.2	14.1	14.1	14.9
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1974.1	1980.2	1974.1	1977.6	1982.0	1974.1	1955.6	1948.6	1946.0	1935.4	1928.4
5°	2083.8	2083.8	2081.2	2088.2	2087.3	2075.0	2055.7	2046.9	2038.2	2026.7	2018.0
7.5°	2005.7	2012.7	2017.1	2044.3	2061.9	2063.6	2075.9	2078.6	2082.1	2078.6	2073.3
10°	1893.3	1890.6	1902.9	1928.4	1943.3	1951.2	1974.9	1986.4	1996.0	2015.3	2035.5
12.5°	1830.0	1833.6	1838.8	1857.3	1871.3	1867.8	1877.5	1885.4	1896.8	1916.1	1945.1
15°	1787.9	1791.4	1796.7	1810.7	1819.5	1815.1	1820.4	1825.7	1833.6	1843.2	1860.8
17.5°	1742.2	1748.4	1754.5	1769.4	1777.4	1776.5	1780.9	1782.6	1785.3	1791.4	1803.7
20°	1671.1	1690.4	1702.7	1722.9	1734.3	1732.6	1740.5	1743.1	1746.6	1752.8	1758.0
22.5°	1606.1	1611.4	1617.5	1639.5	1658.8	1682.5	1687.8	1694.8	1703.6	1709.7	1715.0
25°	1569.2	1565.7	1568.4	1583.3	1593.8	1595.6	1603.5	1626.3	1650.0	1660.6	1672.9
27.5°	1547.3	1543.8	1542.9	1549.9	1551.7	1547.3	1545.5	1552.5	1570.1	1587.7	1624.6
30°	1523.6	1519.2	1515.7	1521.8	1524.4	1518.3	1506.9	1500.7	1511.3	1515.7	1530.6
32.5°	1495.5	1491.1	1489.3	1492.8	1494.6	1489.3	1477.0	1470.0	1468.2	1464.7	1468.2
35°	1463.9	1459.5	1456.8	1457.7	1461.2	1456.8	1446.3	1437.5	1433.1	1423.5	1416.4
37.5°	754.3	1068.7	1387.5	1420.8	1424.3	1423.5	1412.9	1403.3	1398.9	1387.5	1383.9
40°	345.1	385.5	578.7	756.1	1090.6	1385.7	1376.0	1366.4	1358.5	1355.0	1341.8
42.5°	344.2	345.1	346.0	341.6	423.3	721.0	1064.3	1328.6	1323.4	1314.6	1304.9
45°	344.2	339.8	343.4	338.1	339.8	339.0	422.4	681.4	1212.7	1267.2	1262.8
47.5°	340.7	338.1	341.6	337.2	331.9	334.6	331.1	335.4	523.4	887.8	1216.2
50°	324.9	326.7	332.8	331.9	327.5	331.1	324.9	330.2	325.8	357.4	688.5
52.5°	301.2	304.7	310.9	316.1	317.9	322.3	320.5	322.3	318.8	319.6	320.5
55°	273.1	277.5	282.8	290.7	294.2	301.2	306.5	309.1	313.5	312.6	305.6
57.5°	246.8	251.1	255.5	263.4	271.3	274.9	284.5	289.8	301.2	298.6	296.8
60°	222.2	225.7	230.1	231.8	241.5	247.6	256.4	261.7	276.6	280.1	285.4
62.5°	200.2	202.0	205.5	208.1	214.3	220.4	224.8	233.6	241.5	252.9	260.8
65°	180.0	181.8	184.4	186.2	187.0	195.8	198.5	208.1	210.8	223.0	230.1
67.5°	157.2	160.7	164.2	166.0	167.7	173.0	174.7	179.1	185.3	190.6	199.3
70°	133.5	136.1	139.6	142.3	145.8	149.3	154.6	157.2	161.6	165.1	172.1
72.5°	111.5	114.2	115.9	118.5	121.2	123.8	128.2	134.4	137.9	144.0	145.8
75°	90.4	93.1	94.8	96.6	99.2	101.0	102.7	108.9	112.4	117.7	122.9
77.5°	74.6	74.6	76.4	81.7	80.8	80.8	82.5	86.1	88.7	92.2	97.5
80°	58.0	58.8	59.7	64.1	65.0	65.9	65.0	67.6	70.3	71.1	74.6
82.5°	43.0	43.9	43.9	46.5	49.2	49.2	49.2	50.1	52.7	53.6	55.3
85°	29.0	29.9	30.7	31.6	33.4	34.2	35.1	35.1	36.9	37.8	38.6
87.5°	15.8	17.6	18.4	19.3	20.2	21.1	22.0	22.8	23.7	24.6	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1925.8	1921.4	1918.7	1911.7	1910.0	1898.5	1900.3	1898.5	1898.5	1901.2	1910.0
5°	2008.3	1987.2	1982.0	1967.0	1954.7	1933.7	1920.5	1913.5	1902.9	1898.5	1904.7
7.5°	2064.5	2048.7	2035.5	2022.4	2004.8	1980.2	1961.8	1940.7	1923.1	1906.4	1902.0
10°	2054.8	2072.4	2072.4	2064.5	2047.8	2023.2	2001.3	1974.9	1944.2	1917.9	1902.0
12.5°	1973.2	2003.9	2028.5	2046.9	2063.6	2046.9	2025.0	2003.9	1969.7	1931.0	1902.0
15°	1883.6	1915.2	1946.0	1984.6	2025.0	2041.7	2040.8	2016.2	1985.5	1945.1	1904.7
17.5°	1820.4	1842.3	1859.0	1901.2	1950.3	1993.4	2022.4	2024.1	1994.3	1958.2	1905.6
20°	1773.0	1788.8	1802.8	1826.5	1869.6	1922.2	1975.8	2005.7	2000.4	1960.9	1908.2
22.5°	1729.9	1741.3	1752.8	1770.3	1804.6	1838.8	1901.2	1962.6	1989.0	1956.5	1905.6
25°	1686.9	1699.2	1708.0	1720.3	1747.5	1775.6	1819.5	1895.9	1954.7	1953.0	1900.3
27.5°	1636.0	1652.7	1663.2	1679.9	1698.3	1719.4	1749.3	1821.3	1905.6	1935.4	1886.2
30°	1574.5	1599.1	1614.9	1633.3	1649.1	1667.6	1691.3	1735.2	1839.7	1901.2	1871.3
32.5°	1485.8	1529.7	1564.8	1582.4	1600.0	1615.8	1636.9	1673.7	1758.9	1854.6	1854.6
35°	1422.6	1442.8	1474.4	1525.3	1547.3	1563.1	1582.4	1611.4	1665.8	1799.3	1827.4
37.5°	1373.4	1381.3	1397.1	1447.2	1488.4	1513.9	1533.2	1551.7	1605.2	1723.8	1792.3
40°	1336.5	1333.9	1332.1	1355.8	1414.7	1455.1	1477.0	1495.5	1536.7	1633.3	1745.7
42.5°	1293.5	1290.9	1282.1	1288.2	1317.2	1384.8	1418.2	1438.4	1472.6	1538.5	1694.8
45°	1248.7	1244.3	1240.8	1234.7	1245.2	1283.0	1351.5	1381.3	1400.6	1459.5	1630.7
47.5°	1203.1	1196.9	1192.5	1187.2	1181.1	1198.7	1263.6	1317.2	1350.6	1387.5	1553.4
50°	1138.1	1146.0	1140.7	1134.6	1129.3	1125.8	1153.0	1240.8	1282.1	1311.9	1459.5
52.5°	536.5	1043.2	1087.1	1081.0	1074.0	1067.8	1074.0	1140.7	1215.3	1239.1	1346.2
55°	305.6	464.5	966.8	1022.2	1016.0	1007.2	1002.0	1024.8	1136.3	1167.9	1242.6
57.5°	294.2	295.1	426.8	921.2	955.4	947.5	941.4	946.6	1041.5	1095.0	1152.1
60°	284.5	284.5	284.5	407.5	880.8	883.4	875.5	866.7	908.0	1013.4	1060.8
62.5°	263.4	268.7	271.3	271.3	402.2	815.8	807.9	805.3	807.0	915.0	969.5
65°	236.2	248.5	253.8	257.3	257.3	422.4	738.5	734.1	728.0	769.2	877.3
67.5°	206.4	218.7	230.1	237.1	238.0	245.9	440.8	661.2	652.5	653.3	778.9
70°	175.6	186.2	198.5	209.0	218.7	223.0	230.1	548.8	577.8	565.5	667.4
72.5°	151.9	156.3	165.1	175.6	187.0	197.6	203.7	218.7	501.4	488.2	507.6
75°	126.5	130.0	136.1	143.1	151.9	164.2	174.7	185.3	266.1	409.2	406.6
77.5°	98.4	104.5	111.5	115.9	120.3	129.1	143.1	153.7	164.2	276.6	325.8
80°	75.5	79.9	83.4	87.8	93.1	99.2	104.5	116.8	129.1	138.7	249.4
82.5°	56.2	58.8	61.5	63.2	65.0	68.5	78.2	82.5	90.4	99.2	117.7
85°	39.5	41.3	43.0	43.9	44.8	45.7	49.2	50.1	58.0	59.7	71.1
87.5°	25.5	26.3	28.1	29.0	29.0	29.9	30.7	30.7	30.7	29.0	35.1
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1916.1	1916.1
2.5°	1917.0	1931.0
5°	1914.3	1932.8
7.5°	1907.3	1924.9
10°	1896.8	1917.9
12.5°	1885.4	1905.6
15°	1875.7	1890.6
17.5°	1865.2	1873.9
20°	1851.1	1858.1
22.5°	1837.1	1833.6
25°	1821.3	1813.4
27.5°	1801.1	1786.1
30°	1782.6	1756.3
32.5°	1765.1	1722.0
35°	1741.3	1686.9
37.5°	1716.8	1650.9
40°	1687.8	1609.6
42.5°	1657.0	1568.4
45°	1618.4	1528.8
47.5°	1584.2	1481.4
50°	1536.7	1430.5
52.5°	1478.8	1383.1
55°	1410.3	1325.1
57.5°	1336.5	1264.5
60°	1257.5	1195.1
62.5°	1161.8	1123.1
65°	1049.4	1040.6
67.5°	902.7	949.3
70°	740.3	844.8
72.5°	619.1	734.1
75°	507.6	610.3
77.5°	402.2	478.6
80°	251.1	350.4
82.5°	168.6	230.1
85°	101.9	109.8
87.5°	39.5	40.4
90°	0.0	0.0

(END OF REPORT)