

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-LD5-50SL-RW-UNV-L935-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-LD5-50SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

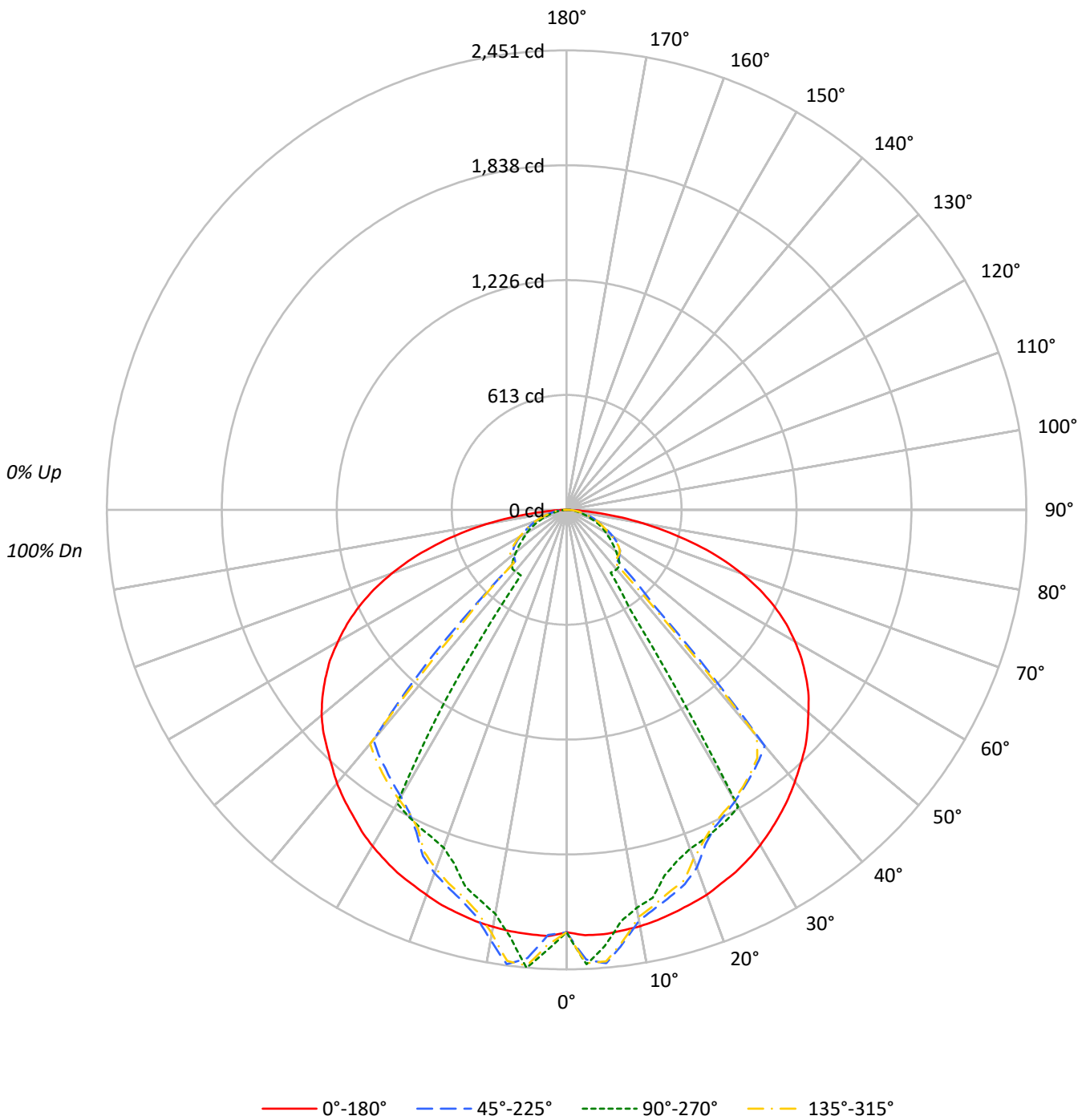
Lumens per Lamp: N/A
Luminaire Lumens: 4512.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 41
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18208	18208	18208	18208
5°	18386	18345	18378	19253
10°	18404	16586	18429	16840
15°	18445	15346	18488	15832
20°	18579	14555	18579	14500
25°	18740	14276	18768	14144
30°	18929	14025	18977	13859
35°	19150	3194	19190	3332
40°	19457	3322	19574	3429
45°	19923	3304	19992	3423
50°	20388	2987	20664	3068
55°	21015	2652	21183	2690
60°	21548	2356	21595	2387
65°	21929	2056	21874	2023
70°	21615	1657	21548	1597
75°	20068	1276	20211	1222
80°	16287	906	16939	830
85°	8820	543	9312	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	4.9
10°-20°	609.5	13.5
20°-30°	902.8	20.0
30°-40°	909.7	20.2
40°-50°	710.6	15.7
50°-60°	548.9	12.2
60°-70°	368.5	8.2
70°-80°	188.0	4.2
80°-90°	52.3	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°	1734.0	38.4
0°-40°	2643.7	58.6
0°-60°	3903.2	86.5
0°-90°	4512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4512.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2253	2253	2253	2253	2253	
5°	2273	2336	2272	2451	2273	216
15°	2223	2019	2228	2083	2223	629
25°	2132	1881	2136	1864	2132	984
35°	1984	409	1988	426	1984	1243
45°	1798	398	1804	412	1798	1386
55°	1558	289	1571	293	1558	1392
65°	1224	194	1221	191	1224	1203
75°	718	98	723	94	718	751
85°	129	31	136	24	129	178
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°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2270.7	2279.0	2285.2	2289.3	2291.4	2291.4	2292.4	2293.4	2306.9	2313.1	2317.2
5°	2272.8	2281.1	2293.4	2310.0	2324.4	2336.8	2347.1	2361.6	2376.1	2391.5	2396.7
7.5°	2263.5	2273.8	2298.6	2328.6	2356.4	2376.1	2389.5	2398.8	2406.0	2407.0	2412.2
10°	2255.2	2273.8	2307.9	2347.1	2382.3	2406.0	2406.0	2400.8	2408.1	2380.2	2352.3
12.5°	2240.8	2261.4	2307.9	2359.5	2392.6	2401.9	2397.7	2377.1	2334.8	2300.7	2285.2
15°	2223.2	2251.1	2308.9	2366.8	2394.6	2397.7	2358.5	2305.8	2273.8	2253.2	2227.4
17.5°	2203.6	2240.8	2310.0	2367.8	2378.1	2363.7	2289.3	2256.3	2223.2	2174.7	2139.6
20°	2185.0	2221.2	2301.7	2353.3	2359.5	2294.5	2236.7	2201.5	2145.8	2103.4	2088.0
22.5°	2156.1	2198.4	2294.5	2333.7	2310.0	2234.6	2178.8	2123.1	2072.5	2060.1	2041.5
25°	2132.4	2176.8	2278.0	2310.0	2247.0	2179.9	2114.8	2049.8	2026.0	2008.4	1991.9
27.5°	2100.3	2155.1	2256.3	2266.6	2179.9	2121.0	2026.0	1997.1	1975.4	1955.8	1948.6
30°	2065.2	2132.4	2226.3	2206.7	2124.1	2037.4	1967.1	1940.3	1924.8	1904.2	1895.9
32.5°	2025.0	2098.3	2193.3	2137.5	2064.2	1955.8	1910.3	1889.7	1869.0	1853.6	1801.9
35°	1983.7	2068.3	2154.0	2071.4	1991.9	1893.8	1853.6	1835.0	1815.3	1758.6	1704.9
37.5°	1941.3	2035.3	2106.5	2000.2	1895.9	1829.8	1795.7	1775.1	1730.7	1658.4	1631.5
40°	1892.8	1995.0	2045.6	1926.9	1812.2	1764.7	1732.7	1712.1	1611.9	1579.9	1571.6
42.5°	1844.3	1955.8	1971.3	1855.6	1743.1	1695.6	1668.7	1600.6	1532.4	1515.9	1519.0
45°	1797.8	1913.4	1889.7	1754.4	1670.8	1631.5	1586.1	1492.1	1456.0	1464.3	1466.3
47.5°	1742.0	1862.8	1804.0	1653.2	1596.4	1557.2	1456.0	1399.2	1394.0	1405.4	1411.6
50°	1682.1	1806.1	1713.1	1561.3	1515.9	1469.4	1354.8	1325.9	1332.1	1343.4	1350.7
52.5°	1626.4	1742.0	1619.1	1475.6	1436.4	1330.0	1252.6	1257.7	1268.1	1281.5	1285.6
55°	1558.2	1664.6	1519.0	1388.9	1351.7	1212.3	1177.2	1189.6	1199.9	1211.3	1219.5
57.5°	1487.0	1575.8	1400.2	1291.8	1231.9	1108.0	1111.1	1119.4	1126.6	1140.0	470.9
60°	1405.4	1474.6	1270.1	1202.0	1083.2	1025.4	1028.5	1042.9	1050.2	586.5	324.2
62.5°	1320.7	1356.9	1152.4	1099.7	946.9	942.8	957.2	963.4	655.7	309.8	303.6
65°	1223.7	1216.4	1036.8	953.1	854.0	858.1	873.6	842.6	290.2	290.2	288.1
67.5°	1116.3	1072.9	924.2	788.9	764.1	773.4	790.0	275.7	268.5	270.5	263.3
70°	993.4	932.5	807.5	668.1	676.4	685.7	266.4	249.9	246.8	241.6	227.2
72.5°	863.3	779.6	660.9	580.3	585.5	367.6	233.4	225.1	214.8	204.5	189.0
75°	717.7	609.2	485.3	485.3	492.6	209.6	203.4	190.0	178.6	165.2	155.9
77.5°	562.8	468.8	376.9	391.4	191.0	175.5	164.2	149.7	140.4	132.2	127.0
80°	412.0	327.3	284.0	254.0	148.7	133.2	121.8	113.6	109.5	104.3	98.1
82.5°	270.5	197.2	197.2	119.8	104.3	91.9	88.8	82.6	78.5	75.4	72.3
85°	129.1	114.6	86.7	73.3	65.1	58.9	56.8	53.7	53.7	52.7	51.6
87.5°	47.5	51.6	38.2	37.2	35.1	34.1	35.1	35.1	36.1	35.1	34.1
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°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2327.5	2335.8	2342.0	2352.3	2365.7	2377.1	2387.4	2401.9	2424.6	2430.8	2436.0
5°	2396.7	2399.8	2407.0	2415.3	2417.4	2422.5	2421.5	2427.7	2430.8	2438.0	2422.5
7.5°	2400.8	2384.3	2364.7	2347.1	2334.8	2323.4	2316.2	2327.5	2333.7	2338.9	2323.4
10°	2314.1	2294.5	2283.1	2272.8	2260.4	2242.9	2219.1	2224.3	2222.2	2222.2	2217.0
12.5°	2259.4	2231.5	2202.6	2176.8	2165.4	2164.4	2165.4	2176.8	2176.8	2175.7	2169.5
15°	2173.7	2146.8	2132.4	2126.2	2126.2	2123.1	2123.1	2135.5	2132.4	2132.4	2129.3
17.5°	2116.9	2098.3	2088.0	2080.7	2077.6	2082.8	2089.0	2094.2	2095.2	2091.1	2074.5
20°	2070.4	2052.8	2040.5	2042.5	2041.5	2044.6	2047.7	2030.1	2008.4	1979.5	1966.1
22.5°	2021.9	2008.4	1999.2	1999.2	1986.8	1967.1	1938.2	1932.0	1928.9	1915.5	1904.2
25°	1975.4	1959.9	1946.5	1905.2	1879.4	1882.5	1877.3	1867.0	1865.9	1864.9	1869.0
27.5°	1928.9	1888.7	1837.0	1830.8	1820.5	1819.5	1825.7	1830.8	1830.8	1835.0	1840.1
30°	1832.9	1786.4	1777.1	1765.8	1769.9	1784.4	1787.5	1794.7	1796.8	1804.0	1808.1
32.5°	1745.1	1724.5	1716.2	1721.4	1734.8	1747.2	1754.4	1757.5	1762.7	1768.9	1774.0
35°	1673.9	1667.7	1674.9	1686.3	1699.7	1710.0	1716.2	1722.4	1727.6	1732.7	1736.9
37.5°	1621.2	1625.3	1635.7	1650.1	1663.6	1671.8	1677.0	1684.2	1691.4	1697.6	1672.8
40°	1571.6	1582.0	1593.3	1608.8	1620.2	1628.4	1633.6	1642.9	1580.9	715.6	392.4
42.5°	1528.3	1539.6	1547.9	1560.3	1572.7	1578.9	1533.4	684.6	387.2	385.2	390.3
45°	1475.6	1484.9	1498.3	1507.6	1519.0	997.5	381.0	385.2	379.0	383.1	385.2
47.5°	1421.9	1436.4	1443.6	1377.5	410.0	379.0	374.8	379.0	374.8	380.0	376.9
50°	1361.0	1378.5	981.0	370.7	367.6	365.5	369.7	367.6	370.7	374.8	366.6
52.5°	1299.0	804.4	359.4	357.3	359.4	357.3	364.5	359.4	360.4	356.3	345.9
55°	439.9	348.0	344.9	343.9	350.1	350.1	350.1	341.8	336.6	326.3	319.1
57.5°	336.6	336.6	335.6	336.6	334.6	332.5	323.2	316.0	308.8	294.3	290.2
60°	319.1	319.1	319.1	319.1	309.8	305.7	291.2	285.0	272.6	265.4	261.3
62.5°	304.6	302.6	293.3	290.2	279.8	268.5	260.2	254.0	241.6	237.5	234.4
65°	284.0	276.7	265.4	253.0	247.8	235.4	231.3	222.0	215.8	212.7	210.7
67.5°	249.9	239.6	230.3	222.0	212.7	208.6	203.4	196.2	192.1	190.0	187.9
70°	213.8	206.5	197.2	192.1	185.9	182.8	175.5	173.5	170.4	167.3	164.2
72.5°	178.6	174.5	170.4	163.2	161.1	159.0	151.8	147.7	143.5	139.4	137.3
75°	149.7	146.6	144.6	138.4	135.3	129.1	123.9	120.8	117.7	114.6	112.6
77.5°	122.9	120.8	114.6	110.5	108.4	103.3	101.2	102.2	100.2	96.0	94.0
80°	96.0	94.0	88.8	88.8	86.7	84.7	82.6	80.5	78.5	75.4	73.3
82.5°	73.3	71.3	69.2	67.1	65.1	64.0	63.0	60.9	58.9	56.8	55.8
85°	51.6	50.6	49.6	48.5	47.5	46.5	45.4	43.4	41.3	40.3	39.2
87.5°	35.1	34.1	33.0	32.0	31.0	29.9	28.9	27.9	25.8	24.8	23.8
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°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2436.0	2441.1	2436.0	2424.6	2417.4	2414.3	2420.5	2420.5	2424.6	2429.8	2430.8
5°	2397.7	2385.4	2370.9	2356.4	2349.2	2345.1	2333.7	2335.8	2338.9	2340.9	2343.0
7.5°	2302.7	2286.2	2266.6	2248.0	2240.8	2234.6	2221.2	2221.2	2221.2	2222.2	2228.4
10°	2205.7	2198.4	2190.2	2177.8	2168.5	2165.4	2154.0	2157.1	2155.1	2158.2	2165.4
12.5°	2160.2	2152.0	2144.8	2132.4	2122.0	2117.9	2112.7	2115.8	2114.8	2120.0	2126.2
15°	2118.9	2114.8	2106.5	2097.3	2088.0	2079.7	2061.1	2054.9	2050.8	2045.6	2052.8
17.5°	2050.8	2021.9	2002.3	1987.8	1977.5	1970.2	1965.1	1965.1	1968.2	1971.3	1977.5
20°	1957.8	1949.6	1940.3	1924.8	1914.5	1910.3	1907.2	1907.2	1912.4	1916.5	1927.9
22.5°	1893.8	1892.8	1889.7	1882.5	1877.3	1877.3	1878.3	1880.4	1887.6	1893.8	1905.2
25°	1863.9	1868.0	1865.9	1861.8	1858.7	1859.7	1857.7	1859.7	1867.0	1873.2	1882.5
27.5°	1840.1	1846.3	1844.3	1838.1	1832.9	1835.0	1838.1	1836.0	1842.2	1849.4	1856.7
30°	1808.1	1809.2	1813.3	1806.1	1804.0	1807.1	1808.1	1810.2	1816.4	1821.5	1827.7
32.5°	1772.0	1780.2	1779.2	1772.0	1772.0	1775.1	1776.1	1706.9	1577.8	1358.9	1299.0
35°	1736.9	1746.2	1730.7	1459.1	1009.9	539.0	416.1	401.7	404.8	406.9	408.9
37.5°	1284.6	609.2	388.3	391.4	394.5	397.6	400.7	403.8	406.9	410.0	411.0
40°	386.2	385.2	388.3	392.4	395.5	397.6	401.7	404.8	407.9	411.0	412.0
42.5°	382.1	384.1	387.2	391.4	395.5	399.6	402.7	406.9	408.9	411.0	412.0
45°	380.0	384.1	388.3	391.4	394.5	396.5	398.6	399.6	398.6	398.6	400.7
47.5°	376.9	381.0	382.1	381.0	382.1	381.0	381.0	381.0	377.9	376.9	376.9
50°	365.5	365.5	363.5	359.4	358.3	357.3	355.2	354.2	350.1	349.0	349.0
52.5°	341.8	340.8	337.7	332.5	330.4	328.4	327.3	326.3	322.2	320.1	321.1
55°	313.9	311.9	308.8	302.6	301.5	299.5	298.4	297.4	293.3	295.3	292.2
57.5°	288.1	284.0	279.8	278.8	274.7	273.6	272.6	271.6	268.5	269.5	267.4
60°	257.1	256.1	254.0	249.9	249.9	248.9	248.9	246.8	244.7	243.7	243.7
62.5°	234.4	231.3	229.2	229.2	226.1	226.1	226.1	224.1	222.0	223.0	222.0
65°	209.6	208.6	207.6	205.5	205.5	204.5	204.5	202.4	199.3	200.3	198.3
67.5°	189.0	186.9	184.8	183.8	179.7	177.6	176.6	175.5	171.4	172.4	170.4
70°	163.2	160.1	158.0	155.9	152.8	150.8	150.8	148.7	145.6	146.6	144.6
72.5°	136.3	134.2	132.2	131.1	128.0	127.0	126.0	124.9	121.8	122.9	121.8
75°	113.6	113.6	112.6	111.5	108.4	105.3	103.3	102.2	100.2	101.2	99.1
77.5°	94.0	91.9	89.8	89.8	86.7	84.7	82.6	82.6	82.6	81.6	80.5
80°	73.3	71.3	71.3	70.2	68.2	66.1	65.1	65.1	64.0	64.0	63.0
82.5°	55.8	53.7	52.7	52.7	50.6	49.6	48.5	47.5	47.5	47.5	46.5
85°	39.2	37.2	36.1	36.1	34.1	33.0	33.0	32.0	32.0	31.0	31.0
87.5°	23.8	22.7	21.7	21.7	19.6	18.6	18.6	18.6	17.6	17.6	16.5
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-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2430.8	2430.8	2423.6	2425.6	2422.5	2426.7	2421.5	2421.5	2427.7	2427.7	2431.8
5°	2344.0	2338.9	2337.9	2335.8	2325.5	2329.6	2324.4	2319.3	2326.5	2326.5	2335.8
7.5°	2225.3	2216.0	2220.1	2213.9	2207.7	2198.4	2201.5	2197.4	2202.6	2209.8	2219.1
10°	2164.4	2156.1	2161.3	2155.1	2158.2	2144.8	2145.8	2146.8	2152.0	2154.0	2162.3
12.5°	2125.1	2123.1	2121.0	2118.9	2121.0	2113.8	2109.6	2110.7	2112.7	2113.8	2120.0
15°	2042.5	2029.1	2033.2	2018.8	2019.8	2020.8	2012.6	2020.8	2019.8	2033.2	2045.6
17.5°	1975.4	1975.4	1968.2	1962.0	1957.8	1956.8	1950.6	1954.7	1950.6	1958.9	1962.0
20°	1928.9	1927.9	1926.9	1923.8	1913.4	1914.5	1917.6	1908.3	1907.2	1906.2	1912.4
22.5°	1907.2	1908.3	1904.2	1904.2	1894.9	1896.9	1898.0	1887.6	1888.7	1885.6	1888.7
25°	1884.5	1886.6	1881.4	1881.4	1879.4	1878.3	1873.2	1875.2	1869.0	1863.9	1869.0
27.5°	1857.7	1861.8	1857.7	1859.7	1855.6	1853.6	1850.5	1848.4	1842.2	1841.2	1844.3
30°	1832.9	1835.0	1833.9	1828.8	1827.7	1821.5	1824.6	1818.4	1812.2	1813.3	1815.3
32.5°	939.7	897.3	691.9	624.7	618.5	641.3	760.0	925.2	1198.9	1464.3	1655.3
35°	410.0	410.0	410.0	408.9	408.9	407.9	406.9	405.8	404.8	403.8	402.7
37.5°	412.0	412.0	412.0	412.0	411.0	410.0	410.0	407.9	406.9	405.8	404.8
40°	413.0	414.1	414.1	414.1	413.0	413.0	412.0	410.0	408.9	406.9	404.8
42.5°	412.0	413.0	413.0	412.0	412.0	411.0	411.0	410.0	408.9	407.9	406.9
45°	398.6	399.6	397.6	397.6	396.5	396.5	396.5	396.5	396.5	397.6	397.6
47.5°	374.8	374.8	373.8	372.8	372.8	371.7	372.8	371.7	373.8	374.8	376.9
50°	347.0	347.0	344.9	343.9	343.9	343.9	343.9	344.9	345.9	348.0	350.1
52.5°	318.0	318.0	317.0	316.0	314.9	314.9	318.0	317.0	318.0	319.1	322.2
55°	290.2	291.2	289.1	289.1	288.1	288.1	288.1	289.1	290.2	291.2	294.3
57.5°	266.4	266.4	264.4	264.4	264.4	263.3	266.4	264.4	265.4	266.4	268.5
60°	242.7	241.6	241.6	240.6	240.6	240.6	242.7	241.6	241.6	242.7	244.7
62.5°	221.0	221.0	219.9	219.9	218.9	218.9	221.0	219.9	219.9	221.0	222.0
65°	196.2	196.2	195.2	194.1	197.2	194.1	197.2	195.2	197.2	198.3	200.3
67.5°	168.3	168.3	168.3	167.3	167.3	169.3	170.4	168.3	169.3	171.4	172.4
70°	143.5	143.5	142.5	142.5	142.5	144.6	145.6	143.5	144.6	145.6	147.7
72.5°	121.8	119.8	119.8	118.8	120.8	120.8	121.8	120.8	121.8	121.8	123.9
75°	100.2	98.1	98.1	98.1	100.2	99.1	100.2	99.1	100.2	100.2	101.2
77.5°	80.5	79.5	78.5	78.5	80.5	80.5	80.5	79.5	80.5	81.6	82.6
80°	63.0	62.0	60.9	60.9	63.0	63.0	63.0	64.0	63.0	64.0	65.1
82.5°	46.5	45.4	44.4	46.5	46.5	46.5	46.5	47.5	46.5	47.5	48.5
85°	31.0	29.9	28.9	31.0	31.0	31.0	31.0	32.0	31.0	32.0	33.0
87.5°	16.5	15.5	15.5	16.5	16.5	16.5	17.6	17.6	17.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2438.0	2441.1	2440.1	2433.9	2427.7	2420.5	2415.3	2416.3	2426.7	2429.8	2420.5
5°	2335.8	2355.4	2355.4	2368.8	2361.6	2355.4	2359.5	2382.3	2393.6	2411.2	2417.4
7.5°	2230.5	2239.8	2238.7	2252.1	2250.1	2250.1	2253.2	2283.1	2297.6	2312.0	2316.2
10°	2171.6	2180.9	2179.9	2180.9	2177.8	2170.6	2170.6	2184.0	2196.4	2203.6	2205.7
12.5°	2129.3	2134.4	2133.4	2133.4	2131.3	2125.1	2124.1	2135.5	2148.9	2158.2	2159.2
15°	2066.3	2080.7	2083.8	2097.3	2094.2	2085.9	2088.0	2097.3	2105.5	2113.8	2110.7
17.5°	1972.3	1979.5	1980.6	1985.7	1983.7	1983.7	1996.1	2030.1	2052.8	2072.5	2074.5
20°	1918.6	1923.8	1921.7	1933.1	1927.9	1926.9	1930.0	1944.4	1954.7	1964.0	1980.6
22.5°	1892.8	1896.9	1893.8	1894.9	1885.6	1877.3	1875.2	1886.6	1898.0	1910.3	1910.3
25°	1871.1	1874.2	1873.2	1871.1	1863.9	1852.5	1850.5	1852.5	1856.7	1857.7	1850.5
27.5°	1845.3	1847.4	1847.4	1848.4	1839.1	1828.8	1826.7	1824.6	1828.8	1827.7	1816.4
30°	1818.4	1815.3	1816.4	1817.4	1809.2	1799.9	1795.7	1794.7	1798.8	1797.8	1786.4
32.5°	1754.4	1778.2	1780.2	1782.3	1775.1	1766.8	1762.7	1759.6	1761.6	1760.6	1750.3
35°	401.7	408.9	500.8	1133.8	1539.6	1704.9	1722.4	1718.3	1719.3	1719.3	1711.1
37.5°	402.7	401.7	400.7	397.6	394.5	392.4	678.4	1446.7	1675.9	1677.0	1669.7
40°	402.7	401.7	400.7	398.6	394.5	391.4	386.2	382.1	391.4	861.2	1575.8
42.5°	404.8	402.7	400.7	398.6	394.5	390.3	386.2	381.0	384.1	382.1	376.9
45°	398.6	397.6	397.6	396.5	394.5	390.3	385.2	379.0	375.9	379.0	373.8
47.5°	379.0	380.0	383.1	384.1	384.1	385.2	382.1	377.9	372.8	375.9	369.7
50°	352.1	354.2	355.2	360.4	362.4	366.6	367.6	367.6	366.6	370.7	366.6
52.5°	323.2	325.3	330.4	332.5	334.6	340.8	342.8	345.9	348.0	354.2	358.3
55°	295.3	296.4	298.4	302.6	305.7	310.8	313.9	317.0	322.2	325.3	337.7
57.5°	269.5	270.5	274.7	275.7	277.8	281.9	285.0	289.1	293.3	295.3	309.8
60°	244.7	245.8	248.9	249.9	250.9	255.1	258.2	261.3	264.4	266.4	276.7
62.5°	223.0	223.0	226.1	226.1	227.2	230.3	232.3	234.4	237.5	238.5	243.7
65°	201.4	202.4	204.5	204.5	205.5	207.6	208.6	209.6	212.7	212.7	216.9
67.5°	174.5	175.5	178.6	180.7	181.7	185.9	186.9	187.9	190.0	191.0	193.1
70°	148.7	149.7	152.8	153.9	154.9	158.0	160.1	163.2	166.3	169.3	171.4
72.5°	124.9	126.0	129.1	129.1	132.2	133.2	135.3	136.3	139.4	141.5	144.6
75°	102.2	103.3	106.4	106.4	109.5	110.5	111.5	112.6	114.6	116.7	118.8
77.5°	83.6	83.6	87.8	89.8	91.9	91.9	92.9	92.9	92.9	94.0	96.0
80°	66.1	66.1	69.2	71.3	73.3	73.3	74.3	75.4	76.4	76.4	77.4
82.5°	49.6	49.6	52.7	53.7	55.8	55.8	55.8	56.8	57.8	56.8	58.9
85°	34.1	34.1	36.1	37.2	39.2	39.2	39.2	40.3	41.3	40.3	41.3
87.5°	19.6	20.7	21.7	22.7	23.8	24.8	24.8	24.8	25.8	25.8	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: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2410.1	2397.7	2396.7	2382.3	2378.1	2379.2	2367.8	2363.7	2345.1	2340.9	2321.3
5°	2419.4	2425.6	2422.5	2421.5	2424.6	2422.5	2414.3	2410.1	2407.0	2398.8	2382.3
7.5°	2317.2	2321.3	2324.4	2337.9	2349.2	2368.8	2389.5	2402.9	2413.2	2415.3	2401.9
10°	2212.9	2232.5	2245.9	2266.6	2283.1	2294.5	2306.9	2318.2	2348.2	2378.1	2395.7
12.5°	2159.2	2164.4	2163.3	2174.7	2186.1	2216.0	2244.9	2261.4	2284.2	2297.6	2329.6
15°	2113.8	2114.8	2117.9	2126.2	2132.4	2142.7	2156.1	2180.9	2226.3	2247.0	2264.5
17.5°	2072.5	2072.5	2074.5	2081.8	2090.0	2099.3	2107.6	2117.9	2140.6	2174.7	2218.1
20°	2006.4	2035.3	2038.4	2037.4	2041.5	2059.0	2061.1	2079.7	2091.1	2104.5	2146.8
22.5°	1908.3	1925.8	1950.6	1988.8	2003.3	2011.5	2017.7	2026.0	2043.6	2059.0	2076.6
25°	1854.6	1865.9	1873.2	1884.5	1914.5	1963.0	1972.3	1981.6	1993.0	2004.3	2026.0
27.5°	1807.1	1806.1	1811.2	1821.5	1829.8	1855.6	1901.1	1937.2	1939.3	1955.8	1974.4
30°	1773.0	1766.8	1759.6	1757.5	1768.9	1782.3	1795.7	1852.5	1891.8	1900.0	1919.6
32.5°	1741.0	1730.7	1720.3	1712.1	1704.9	1716.2	1724.5	1749.3	1799.9	1847.4	1857.7
35°	1701.8	1691.4	1679.0	1669.7	1658.4	1657.4	1656.3	1680.1	1696.6	1753.4	1803.0
37.5°	1661.5	1650.1	1639.8	1629.5	1618.1	1609.9	1604.7	1610.9	1626.4	1651.2	1733.8
40°	1619.1	1605.7	1595.4	1587.1	1571.6	1565.5	1555.1	1551.0	1552.0	1573.7	1617.1
42.5°	967.6	1542.7	1547.9	1538.6	1525.2	1516.9	1505.6	1500.4	1490.1	1500.4	1525.2
45°	372.8	376.9	1128.7	1491.1	1474.6	1464.3	1453.9	1448.8	1437.4	1429.1	1451.9
47.5°	365.5	369.7	361.4	512.2	1407.5	1410.6	1398.2	1393.0	1381.6	1375.4	1369.3
50°	360.4	363.5	357.3	359.4	352.1	1289.7	1341.4	1335.2	1322.8	1315.6	1303.2
52.5°	355.2	355.2	351.1	345.9	343.9	344.9	1085.3	1276.3	1261.9	1254.6	1238.1
55°	338.7	340.8	344.9	336.6	334.6	333.5	330.4	1033.7	1194.7	1186.5	1172.0
57.5°	313.9	318.0	329.4	327.3	327.3	319.1	317.0	317.0	959.3	1117.3	1102.8
60°	285.0	289.1	301.5	305.7	308.8	306.7	304.6	303.6	299.5	1010.9	1029.5
62.5°	255.1	259.2	263.3	276.7	280.9	286.0	292.2	289.1	285.0	285.0	952.1
65°	223.0	229.2	231.3	243.7	248.9	258.2	263.3	270.5	268.5	267.4	272.6
67.5°	195.2	202.4	203.4	208.6	217.9	222.0	228.2	241.6	247.8	249.9	252.0
70°	171.4	175.5	178.6	180.7	186.9	187.9	199.3	208.6	217.9	228.2	231.3
72.5°	147.7	150.8	157.0	154.9	157.0	161.1	167.3	173.5	182.8	197.2	206.5
75°	120.8	122.9	127.0	129.1	133.2	136.3	140.4	145.6	153.9	161.1	173.5
77.5°	97.1	98.1	101.2	102.2	106.4	109.5	116.7	119.8	124.9	130.1	137.3
80°	78.5	78.5	79.5	79.5	82.6	85.7	90.9	94.0	100.2	104.3	104.3
82.5°	59.9	59.9	63.0	63.0	65.1	65.1	68.2	68.2	71.3	73.3	75.4
85°	42.3	43.4	45.4	44.4	46.5	45.4	47.5	49.6	50.6	49.6	48.5
87.5°	27.9	27.9	29.9	28.9	29.9	29.9	32.0	32.0	33.0	33.0	32.0
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: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2314.1	2298.6	2289.3	2278.0	2274.9	2271.8	2275.9	2275.9	2269.7	2264.5	2255.2
5°	2367.8	2351.3	2333.7	2315.1	2297.6	2279.0	2271.8	2270.7	2259.4	2253.2	2250.1
7.5°	2395.7	2387.4	2367.8	2342.0	2315.1	2282.1	2267.6	2259.4	2248.0	2245.9	2245.9
10°	2398.8	2389.5	2379.2	2360.6	2329.6	2286.2	2258.3	2241.8	2231.5	2238.7	2252.1
12.5°	2368.8	2386.4	2377.1	2364.7	2339.9	2287.3	2247.0	2222.2	2219.1	2237.7	2272.8
15°	2292.4	2344.0	2369.9	2357.5	2337.9	2285.2	2228.4	2199.5	2199.5	2237.7	2283.1
17.5°	2234.6	2274.9	2337.9	2348.2	2325.5	2281.1	2210.8	2176.8	2186.1	2241.8	2290.4
20°	2187.1	2211.9	2272.8	2330.6	2308.9	2271.8	2185.0	2149.9	2168.5	2235.6	2300.7
22.5°	2112.7	2162.3	2199.5	2285.2	2292.4	2254.2	2159.2	2116.9	2154.0	2235.6	2295.5
25°	2040.5	2100.3	2139.6	2223.2	2267.6	2232.5	2135.5	2081.8	2138.6	2232.5	2291.4
27.5°	1989.9	2017.7	2089.0	2148.9	2230.5	2203.6	2103.4	2043.6	2118.9	2216.0	2267.6
30°	1936.2	1954.7	2025.0	2081.8	2180.9	2170.6	2070.4	2001.2	2094.2	2200.5	2205.7
32.5°	1877.3	1898.0	1934.1	2016.7	2111.7	2139.6	2033.2	1958.9	2067.3	2176.8	2133.4
35°	1817.4	1832.9	1861.8	1950.6	2031.2	2093.1	1987.8	1910.3	2048.7	2140.6	2064.2
37.5°	1757.5	1774.0	1798.8	1873.2	1946.5	2049.8	1948.6	1861.8	2014.6	2076.6	1991.9
40°	1700.7	1710.0	1735.8	1782.3	1876.3	2005.3	1904.2	1811.2	1979.5	1995.0	1893.8
42.5°	1596.4	1642.9	1666.6	1703.8	1796.8	1944.4	1852.5	1757.5	1940.3	1913.4	1795.7
45°	1483.9	1585.1	1595.4	1632.6	1726.5	1879.4	1804.0	1704.9	1903.1	1843.2	1702.8
47.5°	1392.0	1465.3	1525.2	1556.2	1642.9	1803.0	1758.6	1660.5	1847.4	1754.4	1611.9
50°	1310.4	1349.6	1458.1	1480.8	1542.7	1711.1	1704.9	1608.8	1769.9	1642.9	1523.1
52.5°	1230.9	1258.8	1356.9	1405.4	1456.0	1611.9	1640.8	1558.2	1685.2	1531.4	1433.3
55°	1161.7	1171.0	1224.7	1326.9	1372.4	1511.8	1570.6	1499.4	1577.8	1425.0	1346.5
57.5°	1090.4	1082.2	1121.4	1252.6	1285.6	1409.5	1496.3	1439.5	1491.1	1316.6	1256.7
60°	1016.1	1004.7	1021.3	1108.0	1193.7	1308.3	1408.5	1373.4	1385.8	1209.2	1156.5
62.5°	938.7	927.3	922.1	976.9	1103.9	1204.0	1319.7	1300.1	1256.7	1111.1	1032.6
65°	858.1	846.7	838.5	860.2	1004.7	1068.8	1220.6	1215.4	1115.2	1007.8	869.5
67.5°	261.3	770.3	752.8	751.7	846.7	945.9	1113.2	1104.9	972.7	897.3	748.6
70°	235.4	624.7	664.0	654.7	696.0	820.9	990.3	984.1	834.4	719.7	661.9
72.5°	215.8	221.0	586.5	576.2	585.5	698.1	862.2	845.7	707.3	567.9	572.1
75°	184.8	194.1	202.4	486.4	474.0	578.3	722.8	697.0	583.4	468.8	478.1
77.5°	150.8	162.1	168.3	354.2	383.1	412.0	577.2	543.2	401.7	374.8	178.6
80°	112.6	121.8	132.2	141.5	291.2	288.1	428.5	394.5	279.8	233.4	139.4
82.5°	82.6	85.7	91.9	102.2	115.7	193.1	275.7	242.7	194.1	106.4	96.0
85°	51.6	55.8	58.9	62.0	70.2	115.7	136.3	108.4	81.6	65.1	60.9
87.5°	33.0	33.0	32.0	33.0	34.1	41.3	46.5	44.4	35.1	33.0	33.0
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: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2244.9	2230.5	2230.5	2226.3	2229.4	2229.4	2228.4	2229.4	2236.7	2240.8	2248.0
5°	2243.9	2239.8	2249.0	2260.4	2273.8	2290.4	2294.5	2308.9	2322.4	2339.9	2358.5
7.5°	2257.3	2271.8	2289.3	2307.9	2334.8	2354.4	2371.9	2389.5	2401.9	2418.4	2428.7
10°	2276.9	2305.8	2335.8	2359.5	2388.4	2405.0	2416.3	2418.4	2400.8	2373.0	2350.2
12.5°	2304.8	2338.9	2366.8	2389.5	2402.9	2396.7	2363.7	2329.6	2310.0	2281.1	2240.8
15°	2328.6	2359.5	2388.4	2379.2	2343.0	2308.9	2283.1	2242.9	2203.6	2176.8	2159.2
17.5°	2338.9	2368.8	2358.5	2310.0	2275.9	2236.7	2184.0	2153.0	2127.2	2106.5	2096.2
20°	2345.1	2339.9	2284.2	2249.0	2183.0	2146.8	2112.7	2083.8	2064.2	2053.9	2051.8
22.5°	2328.6	2265.6	2218.1	2155.1	2106.5	2076.6	2049.8	2026.0	2012.6	2004.3	1999.2
25°	2273.8	2200.5	2130.3	2080.7	2039.4	2013.6	1993.0	1973.3	1956.8	1952.7	1942.4
27.5°	2197.4	2137.5	2044.6	2006.4	1970.2	1957.8	1935.1	1915.5	1901.1	1888.7	1855.6
30°	2134.4	2039.4	1972.3	1937.2	1915.5	1901.1	1875.2	1854.6	1829.8	1784.4	1765.8
32.5°	2057.0	1963.0	1899.0	1879.4	1852.5	1840.1	1811.2	1765.8	1727.6	1709.0	1708.0
35°	1956.8	1879.4	1832.9	1815.3	1793.7	1773.0	1713.1	1671.8	1653.2	1655.3	1670.8
37.5°	1873.2	1804.0	1774.0	1749.3	1724.5	1671.8	1621.2	1601.6	1606.8	1617.1	1624.3
40°	1788.5	1735.8	1701.8	1682.1	1626.4	1574.7	1547.9	1555.1	1564.4	1571.6	1580.9
42.5°	1705.9	1668.7	1634.6	1596.4	1520.0	1492.1	1498.3	1507.6	1515.9	1526.2	1535.5
45°	1627.4	1594.4	1555.1	1468.4	1430.2	1437.4	1446.7	1453.9	1466.3	1473.5	1482.8
47.5°	1553.1	1518.0	1448.8	1372.4	1368.2	1382.7	1390.9	1400.2	1409.5	1390.9	767.2
50°	1469.4	1433.3	1327.9	1299.0	1308.3	1321.8	1332.1	1341.4	1194.7	475.0	365.5
52.5°	1386.8	1294.9	1227.8	1236.0	1245.3	1260.8	1268.1	941.7	374.8	357.3	358.3
55°	1294.9	1177.2	1157.6	1167.9	1176.2	1191.6	790.0	345.9	343.9	342.8	351.1
57.5°	1150.3	1079.1	1087.3	1097.7	1105.9	780.7	336.6	334.6	335.6	336.6	337.7
60°	1021.3	1005.8	1015.1	1024.4	724.9	325.3	319.1	320.1	324.2	321.1	312.9
62.5°	919.0	931.4	940.7	824.0	308.8	305.7	308.8	305.7	298.4	293.3	282.9
65°	840.6	852.9	860.2	290.2	289.1	293.3	290.2	279.8	268.5	254.0	250.9
67.5°	757.9	770.3	275.7	268.5	272.6	267.4	255.1	242.7	234.4	222.0	216.9
70°	672.2	288.1	249.9	248.9	241.6	233.4	219.9	207.6	197.2	192.1	186.9
72.5°	485.3	228.2	225.1	216.9	204.5	193.1	181.7	174.5	169.3	166.3	163.2
75°	202.4	198.3	189.0	174.5	162.1	157.0	148.7	143.5	141.5	135.3	133.2
77.5°	169.3	161.1	147.7	137.3	130.1	127.0	120.8	114.6	111.5	110.5	106.4
80°	130.1	118.8	112.6	107.4	105.3	98.1	90.9	87.8	85.7	84.7	81.6
82.5°	88.8	84.7	80.5	73.3	73.3	70.2	67.1	65.1	63.0	63.0	60.9
85°	57.8	54.7	53.7	50.6	50.6	48.5	47.5	46.5	45.4	44.4	43.4
87.5°	33.0	33.0	34.1	33.0	33.0	32.0	31.0	29.9	28.9	28.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2257.3	2267.6	2269.7	2304.8	2324.4	2323.4	2317.2	2335.8	2324.4	2318.2	2324.4
5°	2377.1	2389.5	2399.8	2438.0	2451.4	2457.6	2456.6	2466.9	2458.7	2451.4	2451.4
7.5°	2436.0	2440.1	2444.2	2434.9	2428.7	2418.4	2402.9	2380.2	2368.8	2356.4	2340.9
10°	2338.9	2325.5	2330.6	2312.0	2296.5	2285.2	2270.7	2252.1	2236.7	2225.3	2207.7
12.5°	2220.1	2219.1	2221.2	2224.3	2208.8	2199.5	2188.1	2174.7	2163.3	2150.9	2136.5
15°	2147.8	2148.9	2157.1	2154.0	2148.9	2143.7	2131.3	2127.2	2116.9	2103.4	2095.2
17.5°	2096.2	2101.4	2109.6	2105.5	2097.3	2092.1	2082.8	2073.5	2064.2	2053.9	2041.5
20°	2050.8	2055.9	2061.1	2055.9	2040.5	2033.2	2020.8	1991.9	1971.3	1950.6	1932.0
22.5°	2001.2	2004.3	2000.2	1983.7	1944.4	1925.8	1911.4	1903.1	1885.6	1874.2	1862.8
25°	1939.3	1921.7	1894.9	1876.3	1860.8	1852.5	1846.3	1845.3	1843.2	1841.2	1836.0
27.5°	1838.1	1831.9	1817.4	1810.2	1811.2	1814.3	1815.3	1818.4	1815.3	1811.2	1807.1
30°	1762.7	1765.8	1766.8	1768.9	1774.0	1777.1	1778.2	1782.3	1780.2	1777.1	1775.1
32.5°	1715.2	1722.4	1726.5	1732.7	1735.8	1741.0	1741.0	1747.2	1741.0	1740.0	1737.9
35°	1675.9	1682.1	1684.2	1693.5	1696.6	1701.8	1701.8	1706.9	1701.8	1649.1	1302.1
37.5°	1636.7	1642.9	1647.0	1655.3	1656.3	1659.4	1531.4	1120.4	722.8	559.7	427.5
40°	1590.2	1597.5	1601.6	1604.7	1127.6	715.6	492.6	400.7	400.7	403.8	406.9
42.5°	1540.7	1545.8	1077.0	626.8	390.3	389.3	392.4	395.5	398.6	402.7	406.9
45°	1211.3	611.3	388.3	379.0	382.1	386.2	390.3	394.5	399.6	403.8	405.8
47.5°	397.6	372.8	377.9	373.8	379.0	384.1	388.3	392.4	393.4	394.5	393.4
50°	367.6	367.6	370.7	370.7	374.8	376.9	376.9	376.9	372.8	371.7	368.6
52.5°	355.2	363.5	359.4	361.4	359.4	356.3	353.2	350.1	343.9	341.8	337.7
55°	349.0	352.1	341.8	338.7	334.6	326.3	322.2	318.0	312.9	310.8	305.7
57.5°	334.6	327.3	316.0	310.8	303.6	295.3	291.2	288.1	282.9	280.9	277.8
60°	307.7	293.3	286.0	279.8	271.6	264.4	261.3	259.2	255.1	254.0	250.9
62.5°	274.7	262.3	256.1	247.8	241.6	237.5	234.4	233.4	229.2	229.2	227.2
65°	238.5	232.3	227.2	218.9	215.8	211.7	210.7	209.6	207.6	206.5	204.5
67.5°	209.6	205.5	198.3	194.1	192.1	189.0	186.9	184.8	180.7	178.6	175.5
70°	183.8	180.7	173.5	170.4	166.3	161.1	158.0	155.9	152.8	150.8	147.7
72.5°	159.0	149.7	144.6	141.5	138.4	133.2	132.2	130.1	127.0	126.0	122.9
75°	128.0	120.8	117.7	115.7	112.6	109.5	109.5	109.5	106.4	105.3	104.3
77.5°	102.2	98.1	96.0	94.0	92.9	90.9	87.8	86.7	83.6	83.6	82.6
80°	78.5	76.4	74.3	73.3	72.3	70.2	68.2	67.1	64.0	64.0	63.0
82.5°	57.8	56.8	55.8	54.7	53.7	52.7	49.6	48.5	46.5	46.5	45.4
85°	41.3	40.3	38.2	37.2	37.2	36.1	33.0	32.0	29.9	29.9	29.9
87.5°	25.8	24.8	23.8	22.7	21.7	20.7	18.6	17.6	17.6	15.5	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2312.0	2329.6	2327.5	2339.9	2343.0	2349.2	2351.3	2352.3	2336.8	2349.2	2350.2
5°	2448.3	2451.4	2453.5	2458.7	2463.8	2464.9	2459.7	2453.5	2455.6	2451.4	2441.1
7.5°	2338.9	2323.4	2320.3	2316.2	2314.1	2312.0	2302.7	2311.0	2301.7	2297.6	2283.1
10°	2204.6	2190.2	2189.2	2189.2	2192.3	2191.2	2189.2	2185.0	2193.3	2188.1	2185.0
12.5°	2134.4	2129.3	2132.4	2130.3	2138.6	2140.6	2138.6	2138.6	2136.5	2132.4	2134.4
15°	2092.1	2088.0	2091.1	2088.0	2094.2	2095.2	2090.0	2093.1	2088.0	2082.8	2080.7
17.5°	2036.3	2027.0	2019.8	2009.5	2010.5	2008.4	2002.3	2002.3	1997.1	1983.7	1984.7
20°	1928.9	1919.6	1915.5	1915.5	1920.7	1922.7	1921.7	1923.8	1918.6	1916.5	1908.3
22.5°	1861.8	1860.8	1862.8	1868.0	1876.3	1887.6	1888.7	1888.7	1888.7	1887.6	1877.3
25°	1838.1	1838.1	1840.1	1847.4	1853.6	1861.8	1863.9	1865.9	1863.9	1863.9	1854.6
27.5°	1811.2	1809.2	1813.3	1820.5	1827.7	1833.9	1839.1	1840.1	1837.0	1837.0	1840.1
30°	1778.2	1777.1	1782.3	1789.5	1795.7	1801.9	1807.1	1811.2	1807.1	1807.1	1804.0
32.5°	1744.1	1744.1	1746.2	1702.8	1578.9	1421.9	1425.0	1334.1	1271.2	1191.6	1297.0
35°	1088.4	792.0	680.5	576.2	502.9	455.4	454.4	438.9	431.6	426.5	425.4
37.5°	411.0	413.0	417.2	419.2	422.3	424.4	425.4	425.4	425.4	425.4	424.4
40°	410.0	414.1	417.2	420.3	423.4	425.4	425.4	426.5	427.5	427.5	427.5
42.5°	411.0	415.1	419.2	422.3	424.4	425.4	426.5	427.5	427.5	427.5	427.5
45°	410.0	412.0	412.0	413.0	413.0	413.0	414.1	414.1	413.0	412.0	414.1
47.5°	394.5	394.5	391.4	390.3	389.3	387.2	388.3	387.2	386.2	385.2	387.2
50°	367.6	363.5	361.4	359.4	358.3	356.3	357.3	356.3	355.2	353.2	356.3
52.5°	335.6	334.6	330.4	328.4	327.3	328.4	326.3	325.3	324.2	323.2	324.2
55°	304.6	300.5	299.5	297.4	296.4	297.4	296.4	295.3	294.3	293.3	294.3
57.5°	276.7	273.6	272.6	270.5	270.5	270.5	270.5	269.5	268.5	267.4	268.5
60°	249.9	247.8	246.8	246.8	245.8	245.8	245.8	244.7	243.7	243.7	244.7
62.5°	227.2	227.2	224.1	223.0	223.0	224.1	223.0	222.0	221.0	219.9	222.0
65°	203.4	199.3	198.3	196.2	194.1	195.2	194.1	193.1	192.1	191.0	193.1
67.5°	174.5	173.5	169.3	167.3	166.3	167.3	166.3	165.2	164.2	163.2	165.2
70°	146.6	146.6	142.5	141.5	140.4	140.4	139.4	139.4	138.4	137.3	139.4
72.5°	121.8	121.8	120.8	118.8	117.7	116.7	115.7	114.6	114.6	115.7	115.7
75°	101.2	99.1	95.0	96.0	95.0	94.0	94.0	92.9	91.9	94.0	92.9
77.5°	79.5	78.5	75.4	76.4	75.4	74.3	74.3	73.3	72.3	73.3	73.3
80°	59.9	59.9	58.9	57.8	57.8	56.8	55.8	55.8	54.7	55.8	55.8
82.5°	43.4	43.4	42.3	41.3	40.3	40.3	39.2	39.2	39.2	39.2	39.2
85°	27.9	26.8	26.8	24.8	24.8	24.8	23.8	23.8	23.8	23.8	23.8
87.5°	13.4	13.4	12.4	12.4	11.4	10.3	10.3	9.3	9.3	10.3	10.3
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-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2331.7	2345.1	2333.7	2338.9	2339.9	2357.5	2356.4	2360.6	2353.3	2345.1	2333.7
5°	2450.4	2444.2	2436.0	2455.6	2445.2	2457.6	2461.8	2470.0	2470.0	2469.0	2459.7
7.5°	2298.6	2285.2	2295.5	2302.7	2305.8	2297.6	2314.1	2332.7	2348.2	2357.5	2358.5
10°	2179.9	2184.0	2183.0	2186.1	2193.3	2192.3	2202.6	2212.9	2217.0	2223.2	2225.3
12.5°	2124.1	2123.1	2125.1	2132.4	2136.5	2135.5	2145.8	2152.0	2154.0	2155.1	2154.0
15°	2079.7	2072.5	2077.6	2078.7	2081.8	2081.8	2094.2	2103.4	2107.6	2109.6	2107.6
17.5°	1996.1	1978.5	1995.0	1995.0	2006.4	2004.3	2023.9	2039.4	2047.7	2053.9	2053.9
20°	1913.4	1905.2	1911.4	1909.3	1917.6	1916.5	1928.9	1939.3	1946.5	1951.7	1957.8
22.5°	1880.4	1882.5	1873.2	1874.2	1874.2	1873.2	1879.4	1884.5	1886.6	1889.7	1887.6
25°	1858.7	1860.8	1857.7	1852.5	1850.5	1852.5	1855.6	1861.8	1862.8	1860.8	1853.6
27.5°	1837.0	1830.8	1836.0	1826.7	1824.6	1828.8	1832.9	1833.9	1835.0	1835.0	1828.8
30°	1804.0	1798.8	1804.0	1799.9	1795.7	1799.9	1803.0	1803.0	1805.0	1806.1	1798.8
32.5°	1260.8	1271.2	1438.4	1539.6	1682.1	1754.4	1767.8	1767.8	1769.9	1769.9	1763.7
35°	429.6	430.6	465.7	505.0	588.6	691.9	827.1	897.3	1134.8	1418.8	1693.5
37.5°	424.4	423.4	422.3	421.3	420.3	419.2	417.2	416.1	422.3	500.8	679.5
40°	426.5	425.4	423.4	422.3	421.3	419.2	418.2	416.1	414.1	412.0	410.0
42.5°	426.5	425.4	424.4	423.4	422.3	421.3	419.2	417.2	415.1	412.0	408.9
45°	412.0	412.0	413.0	413.0	414.1	414.1	414.1	413.0	413.0	412.0	407.9
47.5°	385.2	385.2	388.3	388.3	390.3	392.4	392.4	394.5	397.6	399.6	400.7
50°	354.2	354.2	357.3	358.3	360.4	363.5	366.6	367.6	370.7	374.8	379.0
52.5°	323.2	323.2	326.3	326.3	328.4	331.5	334.6	335.6	339.7	343.9	349.0
55°	294.3	294.3	296.4	297.4	298.4	300.5	303.6	303.6	307.7	310.8	316.0
57.5°	268.5	270.5	270.5	270.5	271.6	273.6	275.7	275.7	278.8	281.9	286.0
60°	243.7	245.8	245.8	245.8	246.8	247.8	249.9	249.9	252.0	254.0	258.2
62.5°	221.0	223.0	223.0	224.1	224.1	225.1	227.2	226.1	228.2	229.2	232.3
65°	192.1	194.1	195.2	196.2	197.2	199.3	202.4	201.4	204.5	206.5	209.6
67.5°	164.2	166.3	166.3	167.3	168.3	170.4	172.4	172.4	175.5	177.6	181.7
70°	138.4	140.4	140.4	141.5	142.5	144.6	146.6	145.6	148.7	150.8	153.9
72.5°	114.6	116.7	116.7	117.7	117.7	119.8	121.8	123.9	123.9	126.0	128.0
75°	92.9	94.0	95.0	95.0	96.0	97.1	99.1	101.2	102.2	103.3	105.3
77.5°	73.3	74.3	75.4	75.4	76.4	77.4	78.5	82.6	84.7	85.7	85.7
80°	55.8	56.8	56.8	56.8	57.8	58.9	60.9	60.9	65.1	65.1	66.1
82.5°	39.2	40.3	40.3	40.3	41.3	43.4	44.4	45.4	47.5	48.5	48.5
85°	23.8	24.8	24.8	24.8	25.8	26.8	28.9	29.9	31.0	31.0	32.0
87.5°	9.3	10.3	11.4	11.4	12.4	13.4	14.5	15.5	16.5	16.5	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2321.3	2328.6	2321.3	2325.5	2330.6	2321.3	2299.6	2291.4	2288.3	2275.9	2267.6
5°	2450.4	2450.4	2447.3	2455.6	2454.5	2440.1	2417.4	2407.0	2396.7	2383.3	2373.0
7.5°	2358.5	2366.8	2371.9	2403.9	2424.6	2426.7	2441.1	2444.2	2448.3	2444.2	2438.0
10°	2226.3	2223.2	2237.7	2267.6	2285.2	2294.5	2322.4	2335.8	2347.1	2369.9	2393.6
12.5°	2152.0	2156.1	2162.3	2184.0	2200.5	2196.4	2207.7	2217.0	2230.5	2253.2	2287.3
15°	2102.4	2106.5	2112.7	2129.3	2139.6	2134.4	2140.6	2146.8	2156.1	2167.5	2188.1
17.5°	2048.7	2055.9	2063.2	2080.7	2090.0	2089.0	2094.2	2096.2	2099.3	2106.5	2121.0
20°	1965.1	1987.8	2002.3	2026.0	2039.4	2037.4	2046.7	2049.8	2053.9	2061.1	2067.3
22.5°	1888.7	1894.9	1902.1	1927.9	1950.6	1978.5	1984.7	1993.0	2003.3	2010.5	2016.7
25°	1845.3	1841.2	1844.3	1861.8	1874.2	1876.3	1885.6	1912.4	1940.3	1952.7	1967.1
27.5°	1819.5	1815.3	1814.3	1822.6	1824.6	1819.5	1817.4	1825.7	1846.3	1867.0	1910.3
30°	1791.6	1786.4	1782.3	1789.5	1792.6	1785.4	1772.0	1764.7	1777.1	1782.3	1799.9
32.5°	1758.6	1753.4	1751.3	1755.5	1757.5	1751.3	1736.9	1728.6	1726.5	1722.4	1726.5
35°	1721.4	1716.2	1713.1	1714.1	1718.3	1713.1	1700.7	1690.4	1685.2	1673.9	1665.6
37.5°	887.0	1256.7	1631.5	1670.8	1674.9	1673.9	1661.5	1650.1	1645.0	1631.5	1627.4
40°	405.8	453.3	680.5	889.1	1282.5	1629.5	1618.1	1606.8	1597.5	1593.3	1577.8
42.5°	404.8	405.8	406.9	401.7	497.7	847.8	1251.5	1562.4	1556.2	1545.8	1534.5
45°	404.8	399.6	403.8	397.6	399.6	398.6	496.7	801.3	1426.0	1490.1	1484.9
47.5°	400.7	397.6	401.7	396.5	390.3	393.4	389.3	394.5	615.4	1044.0	1430.2
50°	382.1	384.1	391.4	390.3	385.2	389.3	382.1	388.3	383.1	420.3	809.6
52.5°	354.2	358.3	365.5	371.7	373.8	379.0	376.9	379.0	374.8	375.9	376.9
55°	321.1	326.3	332.5	341.8	345.9	354.2	360.4	363.5	368.6	367.6	359.4
57.5°	290.2	295.3	300.5	309.8	319.1	323.2	334.6	340.8	354.2	351.1	349.0
60°	261.3	265.4	270.5	272.6	284.0	291.2	301.5	307.7	325.3	329.4	335.6
62.5°	235.4	237.5	241.6	244.7	252.0	259.2	264.4	274.7	284.0	297.4	306.7
65°	211.7	213.8	216.9	218.9	219.9	230.3	233.4	244.7	247.8	262.3	270.5
67.5°	184.8	189.0	193.1	195.2	197.2	203.4	205.5	210.7	217.9	224.1	234.4
70°	157.0	160.1	164.2	167.3	171.4	175.5	181.7	184.8	190.0	194.1	202.4
72.5°	131.1	134.2	136.3	139.4	142.5	145.6	150.8	158.0	162.1	169.3	171.4
75°	106.4	109.5	111.5	113.6	116.7	118.8	120.8	128.0	132.2	138.4	144.6
77.5°	87.8	87.8	89.8	96.0	95.0	95.0	97.1	101.2	104.3	108.4	114.6
80°	68.2	69.2	70.2	75.4	76.4	77.4	76.4	79.5	82.6	83.6	87.8
82.5°	50.6	51.6	51.6	54.7	57.8	57.8	57.8	58.9	62.0	63.0	65.1
85°	34.1	35.1	36.1	37.2	39.2	40.3	41.3	41.3	43.4	44.4	45.4
87.5°	18.6	20.7	21.7	22.7	23.8	24.8	25.8	26.8	27.9	28.9	29.9
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-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2264.5	2259.4	2256.3	2248.0	2245.9	2232.5	2234.6	2232.5	2232.5	2235.6	2245.9
5°	2361.6	2336.8	2330.6	2313.1	2298.6	2273.8	2258.3	2250.1	2237.7	2232.5	2239.8
7.5°	2427.7	2409.1	2393.6	2378.1	2357.5	2328.6	2306.9	2282.1	2261.4	2241.8	2236.7
10°	2416.3	2437.0	2437.0	2427.7	2408.1	2379.2	2353.3	2322.4	2286.2	2255.2	2236.7
12.5°	2320.3	2356.4	2385.4	2407.0	2426.7	2407.0	2381.2	2356.4	2316.2	2270.7	2236.7
15°	2215.0	2252.1	2288.3	2333.7	2381.2	2400.8	2399.8	2370.9	2334.8	2287.3	2239.8
17.5°	2140.6	2166.4	2186.1	2235.6	2293.4	2344.0	2378.1	2380.2	2345.1	2302.7	2240.8
20°	2084.9	2103.4	2120.0	2147.8	2198.4	2260.4	2323.4	2358.5	2352.3	2305.8	2243.9
22.5°	2034.3	2047.7	2061.1	2081.8	2122.0	2162.3	2235.6	2307.9	2338.9	2300.7	2240.8
25°	1983.7	1998.1	2008.4	2022.9	2054.9	2088.0	2139.6	2229.4	2298.6	2296.5	2234.6
27.5°	1923.8	1943.4	1955.8	1975.4	1997.1	2021.9	2057.0	2141.7	2240.8	2275.9	2218.1
30°	1851.5	1880.4	1899.0	1920.7	1939.3	1960.9	1988.8	2040.5	2163.3	2235.6	2200.5
32.5°	1747.2	1798.8	1840.1	1860.8	1881.4	1900.0	1924.8	1968.2	2068.3	2180.9	2180.9
35°	1672.8	1696.6	1733.8	1793.7	1819.5	1838.1	1860.8	1894.9	1958.9	2115.8	2148.9
37.5°	1615.0	1624.3	1642.9	1701.8	1750.3	1780.2	1803.0	1824.6	1887.6	2027.0	2107.6
40°	1571.6	1568.5	1566.5	1594.4	1663.6	1711.1	1736.9	1758.6	1807.1	1920.7	2052.8
42.5°	1521.0	1518.0	1507.6	1514.9	1548.9	1628.4	1667.7	1691.4	1731.7	1809.2	1993.0
45°	1468.4	1463.2	1459.1	1451.9	1464.3	1508.7	1589.2	1624.3	1647.0	1716.2	1917.6
47.5°	1414.7	1407.5	1402.3	1396.1	1388.9	1409.5	1485.9	1548.9	1588.2	1631.5	1826.7
50°	1338.3	1347.6	1341.4	1334.1	1327.9	1323.8	1355.8	1459.1	1507.6	1542.7	1716.2
52.5°	630.9	1226.8	1278.4	1271.2	1262.9	1255.7	1262.9	1341.4	1429.1	1457.0	1583.0
55°	359.4	546.3	1136.9	1202.0	1194.7	1184.4	1178.2	1205.1	1336.2	1373.4	1461.2
57.5°	345.9	347.0	501.9	1083.2	1123.5	1114.2	1107.0	1113.2	1224.7	1287.7	1354.8
60°	334.6	334.6	334.6	479.1	1035.7	1038.8	1029.5	1019.2	1067.7	1191.6	1247.4
62.5°	309.8	316.0	319.1	319.1	472.9	959.3	950.0	946.9	949.0	1076.0	1140.0
65°	277.8	292.2	298.4	302.6	302.6	496.7	868.4	863.3	856.0	904.6	1031.6
67.5°	242.7	257.1	270.5	278.8	279.8	289.1	518.4	777.6	767.2	768.3	915.9
70°	206.5	218.9	233.4	245.8	257.1	262.3	270.5	645.4	679.5	665.0	784.8
72.5°	178.6	183.8	194.1	206.5	219.9	232.3	239.6	257.1	589.6	574.1	596.9
75°	148.7	152.8	160.1	168.3	178.6	193.1	205.5	217.9	312.9	481.2	478.1
77.5°	115.7	122.9	131.1	136.3	141.5	151.8	168.3	180.7	193.1	325.3	383.1
80°	88.8	94.0	98.1	103.3	109.5	116.7	122.9	137.3	151.8	163.2	293.3
82.5°	66.1	69.2	72.3	74.3	76.4	80.5	91.9	97.1	106.4	116.7	138.4
85°	46.5	48.5	50.6	51.6	52.7	53.7	57.8	58.9	68.2	70.2	83.6
87.5°	29.9	31.0	33.0	34.1	34.1	35.1	36.1	36.1	36.1	34.1	41.3
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-LD5-50SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2253.2	2253.2
2.5°	2254.2	2270.7
5°	2251.1	2272.8
7.5°	2242.9	2263.5
10°	2230.5	2255.2
12.5°	2217.0	2240.8
15°	2205.7	2223.2
17.5°	2193.3	2203.6
20°	2176.8	2185.0
22.5°	2160.2	2156.1
25°	2141.7	2132.4
27.5°	2117.9	2100.3
30°	2096.2	2065.2
32.5°	2075.6	2025.0
35°	2047.7	1983.7
37.5°	2018.8	1941.3
40°	1984.7	1892.8
42.5°	1948.6	1844.3
45°	1903.1	1797.8
47.5°	1862.8	1742.0
50°	1807.1	1682.1
52.5°	1738.9	1626.4
55°	1658.4	1558.2
57.5°	1571.6	1487.0
60°	1478.7	1405.4
62.5°	1366.2	1320.7
65°	1234.0	1223.7
67.5°	1061.5	1116.3
70°	870.5	993.4
72.5°	728.0	863.3
75°	596.9	717.7
77.5°	472.9	562.8
80°	295.3	412.0
82.5°	198.3	270.5
85°	119.8	129.1
87.5°	46.5	47.5
90°	0.0	0.0

(END OF REPORT)