

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: **8SNLED-LD5-128SL-LW-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 (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

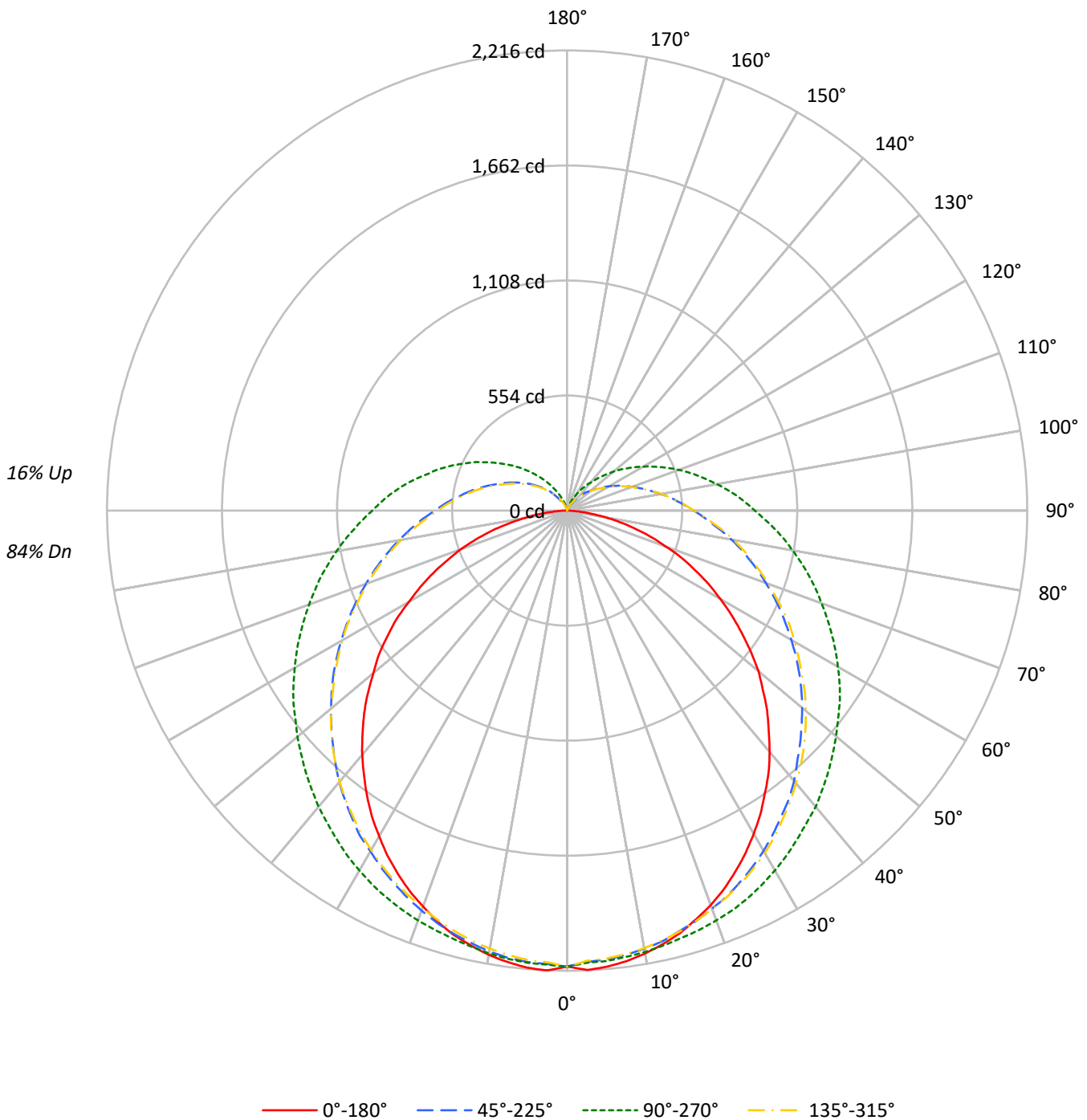
Lumens per Lamp: N/A
Luminaire Lumens: 9539.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 103
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			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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8871	8871	8871	8871
5°	8931	8549	8949	8586
10°	8860	8306	8889	8333
15°	8770	8098	8808	8107
20°	8645	7947	8674	7947
25°	8488	7812	8539	7803
30°	8310	7673	8374	7673
35°	8102	7545	8193	7554
40°	7898	7469	7994	7469
45°	7662	7390	7779	7399
50°	7418	7343	7518	7363
55°	7070	7350	7293	7382
60°	6706	7372	6925	7418
65°	6299	7446	6577	7520
70°	5719	7583	6165	7691
75°	5057	7831	5535	7981
80°	4010	8198	4555	8388
85°	2549	8787	3190	9031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	2.2
10°-20°	597.8	6.3
20°-30°	916.5	9.6
30°-40°	1130.7	11.9
40°-50°	1226.7	12.9
50°-60°	1209.1	12.7
60°-70°	1093.1	11.5
70°-80°	910.7	9.5
80°-90°	705.3	7.4
90°-100°	534.9	5.6
100°-110°	395.9	4.1
110°-120°	275.4	2.9
120°-130°	175.7	1.8
130°-140°	98.6	1.0
140°-150°	45.0	0.5
150°-160°	13.9	0.1
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1722.3	18.1
0°-40°	2852.9	29.9
0°-60°	5288.7	55.4
0°-90°	7997.8	83.8
90°-120°	1206.2	12.6
90°-150°	1525.5	16.0
90°-180°	1541.0	16.2
0°-180°	9539.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2196	2196	2196	2196	2196	
5°	2205	2177	2210	2186	2205	209
15°	2105	2131	2114	2133	2105	593
25°	1918	2059	1929	2057	1918	883
35°	1661	1932	1679	1934	1661	1040
45°	1362	1779	1383	1781	1362	1049
55°	1026	1603	1058	1610	1026	918
65°	681	1406	711	1420	681	675
75°	343	1204	375	1228	343	363
85°	65	1003	81	1031	65	78
90°	2	903	5	938	2	3
95°	2	820	2	859	2	2
105°	2	651	2	690	2	2
115°	2	496	2	540	2	2
125°	2	357	2	396	2	2
135°	2	232	2	273	2	2
145°	2	134	2	164	2	1
155°	2	56	2	76	2	1
165°	2	9	2	14	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2214.1	2214.1	2211.8	2207.2	2209.5	2216.4	2211.8	2200.2	2193.3	2174.8	2179.4
5°	2204.9	2204.9	2202.5	2197.9	2200.2	2209.5	2204.9	2195.6	2186.3	2170.1	2177.1
7.5°	2188.6	2188.6	2186.3	2181.7	2186.3	2195.6	2191.0	2181.7	2174.8	2158.5	2165.5
10°	2165.5	2167.8	2165.5	2158.5	2167.8	2177.1	2174.8	2163.2	2156.2	2142.3	2149.3
12.5°	2137.7	2140.0	2137.7	2135.4	2140.0	2153.9	2149.3	2140.0	2135.4	2123.8	2130.7
15°	2105.3	2107.6	2103.0	2103.0	2107.6	2121.5	2121.5	2112.2	2107.6	2096.0	2109.9
17.5°	2063.6	2065.9	2063.6	2063.6	2068.2	2082.1	2084.4	2079.8	2075.2	2070.5	2084.4
20°	2021.9	2019.6	2019.6	2017.3	2026.5	2047.4	2045.1	2045.1	2040.4	2040.4	2056.6
22.5°	1973.3	1973.3	1970.9	1970.9	1982.5	2001.1	2001.1	2005.7	2001.1	2010.3	2024.2
25°	1917.7	1920.0	1917.7	1922.3	1931.6	1952.4	1954.7	1961.7	1964.0	1973.3	1989.5
27.5°	1859.8	1862.1	1859.8	1864.4	1880.6	1896.8	1908.4	1917.7	1920.0	1933.9	1954.7
30°	1797.2	1797.2	1799.6	1804.2	1822.7	1848.2	1857.5	1869.0	1869.0	1892.2	1913.0
32.5°	1732.4	1732.4	1732.4	1741.7	1762.5	1792.6	1804.2	1818.1	1822.7	1845.9	1869.0
35°	1660.6	1662.9	1662.9	1669.9	1697.7	1727.8	1744.0	1760.2	1769.4	1797.2	1820.4
37.5°	1593.4	1598.1	1591.1	1600.4	1639.8	1665.2	1683.8	1700.0	1716.2	1753.2	1771.8
40°	1517.0	1521.6	1519.3	1537.8	1570.3	1602.7	1623.5	1639.8	1662.9	1700.0	1720.8
42.5°	1435.9	1440.6	1445.2	1466.0	1500.8	1533.2	1558.7	1579.5	1607.3	1639.8	1674.5
45°	1361.8	1361.8	1368.8	1394.3	1431.3	1466.0	1496.2	1519.3	1551.7	1586.5	1621.2
47.5°	1278.4	1280.8	1290.0	1320.1	1359.5	1401.2	1429.0	1459.1	1493.8	1530.9	1570.3
50°	1202.0	1202.0	1215.9	1248.3	1285.4	1331.7	1361.8	1396.6	1433.6	1477.6	1517.0
52.5°	1114.0	1118.6	1139.5	1169.6	1218.2	1259.9	1294.7	1331.7	1375.7	1422.0	1466.0
55°	1026.0	1035.3	1051.5	1093.2	1144.1	1183.5	1225.2	1271.5	1313.2	1364.1	1415.1
57.5°	940.3	947.3	972.7	1014.4	1067.7	1116.3	1160.3	1204.3	1255.3	1306.2	1359.5
60°	852.3	861.6	891.7	933.4	991.3	1042.2	1093.2	1139.5	1192.8	1246.0	1301.6
62.5°	768.9	775.9	810.6	859.2	917.1	972.7	1023.7	1079.3	1137.2	1188.1	1243.7
65°	680.9	692.5	731.9	775.9	843.0	898.6	956.5	1016.7	1077.0	1132.5	1185.8
67.5°	599.9	606.8	648.5	699.4	766.6	829.1	889.4	954.2	1016.7	1074.6	1127.9
70°	504.9	528.1	569.7	623.0	694.8	759.7	824.5	891.7	958.8	1019.1	1070.0
72.5°	426.1	444.7	491.0	548.9	618.4	694.8	762.0	833.8	900.9	963.5	1016.7
75°	342.8	361.3	414.6	479.4	551.2	632.3	701.8	775.9	845.4	907.9	963.5
77.5°	261.7	284.9	342.8	409.9	488.7	572.1	643.9	718.0	789.8	856.9	912.5
80°	187.6	213.1	275.6	352.0	428.5	511.8	590.6	664.7	736.5	803.7	861.6
82.5°	120.4	148.2	215.4	291.8	372.9	456.3	537.3	611.4	683.2	750.4	810.6
85°	64.8	95.0	164.4	240.9	321.9	405.3	486.4	565.1	634.6	697.1	762.0
87.5°	18.5	55.6	122.7	199.2	282.6	359.0	437.7	516.5	586.0	653.1	711.0
90°	2.3	32.4	92.6	164.4	245.5	319.6	398.4	472.5	542.0	609.1	667.0
92.5°	2.3	20.8	71.8	136.6	210.8	287.2	365.9	437.7	502.6	569.7	627.6
95°	2.3	16.2	57.9	115.8	185.3	257.1	331.2	400.7	467.8	530.4	588.3
97.5°	2.3	11.6	46.3	99.6	162.1	229.3	301.1	370.6	435.4	495.6	548.9
100°	2.3	9.3	37.1	85.7	141.3	206.1	271.0	338.1	400.7	458.6	514.2
102.5°	2.3	6.9	32.4	71.8	125.1	183.0	245.5	308.0	368.2	423.8	479.4
105°	2.3	6.9	27.8	62.5	111.2	164.4	222.3	282.6	338.1	391.4	442.4
107.5°	2.3	4.6	23.2	53.3	97.3	148.2	201.5	259.4	310.3	361.3	409.9
110°	2.3	4.6	18.5	48.6	85.7	132.0	183.0	236.2	284.9	333.5	379.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.3	4.6	16.2	41.7	74.1	118.1	164.4	213.1	259.4	308.0	349.7
115°	2.3	4.6	13.9	37.1	69.5	101.9	148.2	192.2	238.6	282.6	321.9
117.5°	2.3	4.6	11.6	30.1	60.2	92.6	129.7	173.7	215.4	257.1	294.1
120°	2.3	4.6	9.3	27.8	53.3	83.4	115.8	155.2	194.5	233.9	273.3
122.5°	2.3	2.3	9.3	23.2	46.3	74.1	106.5	136.6	173.7	210.8	245.5
125°	2.3	2.3	9.3	20.8	39.4	67.2	95.0	122.7	155.2	187.6	217.7
127.5°	2.3	2.3	6.9	16.2	34.7	57.9	83.4	113.5	136.6	166.8	196.9
130°	2.3	2.3	6.9	13.9	30.1	48.6	74.1	99.6	127.4	148.2	173.7
132.5°	2.3	2.3	6.9	11.6	23.2	39.4	62.5	85.7	111.2	134.3	155.2
135°	2.3	2.3	4.6	9.3	18.5	32.4	51.0	71.8	97.3	120.4	141.3
137.5°	2.3	2.3	4.6	9.3	13.9	27.8	39.4	57.9	81.1	101.9	122.7
140°	2.3	2.3	4.6	6.9	11.6	20.8	32.4	46.3	64.8	83.4	106.5
142.5°	2.3	2.3	2.3	6.9	9.3	16.2	25.5	37.1	51.0	67.2	85.7
145°	2.3	2.3	2.3	6.9	9.3	11.6	20.8	30.1	39.4	51.0	67.2
147.5°	2.3	2.3	2.3	4.6	6.9	9.3	16.2	23.2	30.1	39.4	48.6
150°	2.3	2.3	2.3	4.6	6.9	9.3	11.6	16.2	23.2	32.4	39.4
152.5°	2.3	2.3	2.3	4.6	4.6	6.9	9.3	11.6	16.2	23.2	27.8
155°	2.3	2.3	2.3	2.3	4.6	6.9	9.3	9.3	11.6	16.2	20.8
157.5°	2.3	2.3	2.3	2.3	4.6	4.6	6.9	6.9	9.3	9.3	13.9
160°	2.3	2.3	2.3	2.3	2.3	4.6	4.6	6.9	6.9	6.9	6.9
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	4.6	6.9	6.9
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	4.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2179.4	2181.7	2188.6	2188.6	2184.0	2184.0	2181.7	2179.4	2181.7	2186.3	2186.3
5°	2174.8	2177.1	2184.0	2186.3	2181.7	2179.4	2179.4	2177.1	2179.4	2184.0	2184.0
7.5°	2165.5	2167.8	2174.8	2177.1	2172.4	2172.4	2170.1	2167.8	2172.4	2174.8	2174.8
10°	2151.6	2153.9	2163.2	2165.5	2163.2	2160.9	2160.9	2158.5	2160.9	2165.5	2165.5
12.5°	2133.1	2137.7	2149.3	2149.3	2149.3	2147.0	2147.0	2144.6	2147.0	2151.6	2149.3
15°	2112.2	2121.5	2130.7	2135.4	2135.4	2135.4	2133.1	2130.7	2135.4	2137.7	2135.4
17.5°	2089.1	2100.6	2114.5	2119.2	2119.2	2121.5	2119.2	2116.9	2121.5	2121.5	2119.2
20°	2065.9	2077.5	2091.4	2096.0	2100.6	2103.0	2103.0	2100.6	2103.0	2105.3	2103.0
22.5°	2035.8	2049.7	2065.9	2072.8	2077.5	2082.1	2082.1	2082.1	2084.4	2086.7	2082.1
25°	2003.4	2019.6	2038.1	2045.1	2054.3	2056.6	2059.0	2059.0	2061.3	2063.6	2056.6
27.5°	1968.6	1987.2	2005.7	2017.3	2024.2	2028.8	2028.8	2031.2	2033.5	2035.8	2028.8
30°	1926.9	1954.7	1970.9	1980.2	1989.5	1996.4	1998.7	2001.1	2003.4	2005.7	1998.7
32.5°	1889.9	1913.0	1933.9	1945.5	1957.0	1966.3	1968.6	1968.6	1973.3	1973.3	1966.3
35°	1845.9	1873.7	1894.5	1906.1	1920.0	1926.9	1931.6	1931.6	1936.2	1936.2	1929.3
37.5°	1801.9	1829.7	1852.8	1866.7	1882.9	1892.2	1894.5	1894.5	1899.1	1899.1	1889.9
40°	1755.6	1785.7	1811.1	1827.3	1841.2	1852.8	1855.1	1862.1	1862.1	1859.8	1850.5
42.5°	1709.2	1737.0	1764.8	1783.3	1801.9	1813.5	1818.1	1820.4	1820.4	1818.1	1811.1
45°	1658.3	1690.7	1716.2	1739.3	1757.9	1769.4	1776.4	1778.7	1778.7	1774.1	1767.1
47.5°	1609.6	1642.1	1667.5	1693.0	1711.5	1725.4	1732.4	1734.7	1732.4	1730.1	1723.1
50°	1558.7	1595.7	1621.2	1646.7	1665.2	1676.8	1688.4	1690.7	1688.4	1686.1	1672.2
52.5°	1505.4	1544.8	1572.6	1598.1	1618.9	1632.8	1642.1	1644.4	1644.4	1639.8	1630.5
55°	1452.2	1486.9	1521.6	1549.4	1572.6	1586.5	1598.1	1602.7	1598.1	1593.4	1581.8
57.5°	1403.5	1435.9	1470.7	1500.8	1523.9	1542.5	1551.7	1556.4	1551.7	1544.8	1533.2
60°	1345.6	1380.4	1419.7	1447.5	1473.0	1491.5	1496.2	1505.4	1500.8	1493.8	1482.3
62.5°	1290.0	1331.7	1366.5	1401.2	1422.0	1442.9	1452.2	1456.8	1452.2	1445.2	1433.6
65°	1232.1	1278.4	1313.2	1347.9	1371.1	1391.9	1403.5	1405.8	1401.2	1394.3	1382.7
67.5°	1178.9	1222.9	1259.9	1297.0	1317.8	1338.7	1350.2	1354.9	1350.2	1341.0	1329.4
70°	1125.6	1169.6	1213.6	1241.4	1266.9	1290.0	1297.0	1303.9	1299.3	1290.0	1276.1
72.5°	1072.3	1118.6	1162.6	1190.4	1218.2	1239.1	1248.3	1255.3	1250.7	1241.4	1225.2
75°	1016.7	1065.4	1109.4	1139.5	1167.3	1188.1	1197.4	1204.3	1199.7	1190.4	1171.9
77.5°	965.8	1014.4	1056.1	1088.5	1116.3	1134.9	1151.1	1153.4	1148.8	1139.5	1121.0
80°	912.5	961.2	1005.2	1037.6	1065.4	1083.9	1095.5	1102.4	1097.8	1088.5	1070.0
82.5°	866.2	910.2	954.2	986.6	1014.4	1037.6	1046.8	1053.8	1051.5	1037.6	1023.7
85°	815.2	866.2	900.9	935.7	963.5	986.6	993.6	1002.8	1000.5	988.9	970.4
87.5°	764.3	815.2	856.9	891.7	917.1	935.7	947.3	951.9	949.6	938.0	917.1
90°	722.6	768.9	810.6	847.7	868.5	889.4	900.9	903.3	903.3	889.4	873.1
92.5°	683.2	727.2	768.9	803.7	829.1	847.7	856.9	861.6	859.2	847.7	829.1
95°	639.2	687.9	727.2	762.0	787.5	806.0	815.2	819.9	817.6	806.0	787.5
97.5°	602.2	646.2	685.5	718.0	743.4	762.0	771.2	775.9	775.9	764.3	745.8
100°	565.1	609.1	646.2	678.6	701.8	720.3	729.5	731.9	729.5	720.3	701.8
102.5°	528.1	569.7	606.8	636.9	662.4	678.6	687.9	690.2	690.2	678.6	660.1
105°	491.0	532.7	567.4	599.9	620.7	636.9	643.9	650.8	648.5	639.2	620.7
107.5°	456.3	497.9	530.4	560.5	581.3	597.5	604.5	611.4	609.1	599.9	581.3
110°	423.8	463.2	493.3	523.4	542.0	558.2	569.7	572.1	567.4	558.2	542.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	393.7	428.5	458.6	486.4	507.2	518.8	528.1	532.7	528.1	518.8	507.2
115°	361.3	396.0	426.1	451.6	470.2	484.1	491.0	495.6	491.0	481.7	470.2
117.5°	331.2	363.6	393.7	419.2	435.4	447.0	453.9	458.6	453.9	447.0	435.4
120°	305.7	333.5	361.3	384.5	403.0	412.3	419.2	423.8	421.5	412.3	400.7
122.5°	275.6	305.7	331.2	354.4	370.6	379.8	384.5	389.1	386.8	379.8	368.2
125°	250.1	275.6	301.1	321.9	338.1	347.4	352.0	356.7	354.4	347.4	333.5
127.5°	222.3	250.1	271.0	291.8	303.4	317.3	319.6	324.2	321.9	315.0	303.4
130°	201.5	222.3	243.2	261.7	275.6	284.9	289.5	291.8	287.2	282.6	271.0
132.5°	176.0	199.2	217.7	233.9	243.2	252.4	257.1	259.4	259.4	252.4	243.2
135°	157.5	173.7	189.9	206.1	215.4	224.7	229.3	231.6	229.3	224.7	215.4
137.5°	141.3	155.2	166.8	180.7	192.2	196.9	201.5	201.5	199.2	196.9	189.9
140°	122.7	139.0	150.5	159.8	169.1	171.4	176.0	176.0	173.7	171.4	166.8
142.5°	104.2	118.1	129.7	141.3	148.2	152.9	155.2	157.5	155.2	152.9	145.9
145°	83.4	99.6	111.2	118.1	127.4	129.7	132.0	134.3	132.0	129.7	122.7
147.5°	64.8	78.7	90.3	99.6	106.5	108.9	111.2	113.5	111.2	106.5	104.2
150°	46.3	57.9	71.8	81.1	85.7	90.3	90.3	90.3	92.6	88.0	83.4
152.5°	37.1	41.7	51.0	60.2	67.2	69.5	71.8	71.8	69.5	69.5	64.8
155°	25.5	30.1	37.1	44.0	51.0	53.3	55.6	55.6	53.3	53.3	51.0
157.5°	16.2	20.8	25.5	30.1	37.1	39.4	41.7	41.7	41.7	39.4	37.1
160°	9.3	11.6	13.9	18.5	23.2	25.5	27.8	27.8	27.8	27.8	25.5
162.5°	6.9	6.9	6.9	9.3	11.6	13.9	16.2	16.2	16.2	16.2	13.9
165°	4.6	4.6	4.6	4.6	4.6	6.9	9.3	9.3	9.3	9.3	9.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2184.0	2184.0	2186.3	2181.7	2167.8	2170.1	2170.1	2179.4	2184.0	2186.3	2197.9
5°	2179.4	2179.4	2184.0	2177.1	2165.5	2165.5	2165.5	2174.8	2177.1	2181.7	2191.0
7.5°	2172.4	2172.4	2174.8	2167.8	2153.9	2153.9	2151.6	2160.9	2165.5	2167.8	2177.1
10°	2160.9	2160.9	2163.2	2156.2	2140.0	2140.0	2137.7	2144.6	2147.0	2151.6	2158.5
12.5°	2144.6	2144.6	2144.6	2137.7	2121.5	2119.2	2116.9	2123.8	2123.8	2126.1	2133.1
15°	2130.7	2126.1	2126.1	2119.2	2103.0	2098.3	2093.7	2096.0	2100.6	2098.3	2103.0
17.5°	2114.5	2109.9	2105.3	2098.3	2077.5	2070.5	2065.9	2068.2	2065.9	2063.6	2068.2
20°	2096.0	2089.1	2086.7	2075.2	2054.3	2042.7	2033.5	2028.8	2031.2	2024.2	2026.5
22.5°	2075.2	2065.9	2061.3	2047.4	2026.5	2012.6	2001.1	1991.8	1989.5	1980.2	1982.5
25°	2049.7	2038.1	2031.2	2019.6	1996.4	1980.2	1966.3	1952.4	1945.5	1933.9	1931.6
27.5°	2019.6	2008.0	1998.7	1987.2	1964.0	1943.2	1926.9	1908.4	1899.1	1885.2	1878.3
30°	1989.5	1975.6	1961.7	1952.4	1926.9	1903.8	1878.3	1862.1	1848.2	1832.0	1820.4
32.5°	1952.4	1938.5	1924.6	1910.7	1887.6	1859.8	1838.9	1813.5	1797.2	1778.7	1764.8
35°	1915.4	1896.8	1882.9	1864.4	1843.6	1811.1	1785.7	1760.2	1739.3	1718.5	1702.3
37.5°	1873.7	1859.8	1838.9	1822.7	1797.2	1764.8	1737.0	1704.6	1686.1	1658.3	1637.4
40°	1834.3	1818.1	1797.2	1776.4	1750.9	1713.9	1683.8	1646.7	1625.9	1593.4	1572.6
42.5°	1794.9	1771.8	1750.9	1727.8	1700.0	1665.2	1628.2	1591.1	1563.3	1533.2	1503.1
45°	1750.9	1725.4	1700.0	1674.5	1646.7	1612.0	1572.6	1533.2	1498.5	1470.7	1433.6
47.5°	1704.6	1679.1	1649.0	1621.2	1591.1	1556.4	1514.7	1473.0	1435.9	1403.5	1364.1
50°	1658.3	1632.8	1600.4	1570.3	1535.5	1500.8	1456.8	1408.1	1368.8	1327.1	1292.3
52.5°	1609.6	1584.2	1554.1	1514.7	1477.6	1442.9	1396.6	1345.6	1301.6	1266.9	1222.9
55°	1561.0	1535.5	1500.8	1461.4	1424.4	1380.4	1336.4	1285.4	1236.8	1195.1	1151.1
57.5°	1510.1	1486.9	1447.5	1415.1	1368.8	1322.5	1276.1	1227.5	1174.2	1125.6	1074.6
60°	1459.1	1433.6	1396.6	1357.2	1310.9	1264.6	1215.9	1162.6	1107.1	1053.8	1007.5
62.5°	1412.8	1380.4	1345.6	1303.9	1255.3	1211.3	1155.7	1097.8	1042.2	986.6	931.0
65°	1359.5	1324.8	1292.3	1250.7	1199.7	1148.8	1093.2	1035.3	975.0	914.8	859.2
67.5°	1306.2	1271.5	1236.8	1195.1	1141.8	1088.5	1030.6	972.7	905.6	847.7	782.8
70°	1253.0	1225.2	1181.2	1137.2	1088.5	1030.6	972.7	910.2	840.7	778.2	711.0
72.5°	1199.7	1171.9	1127.9	1081.6	1035.3	975.0	912.5	850.0	785.1	713.3	641.5
75°	1148.8	1114.0	1074.6	1030.6	982.0	919.5	856.9	792.1	715.7	648.5	574.4
77.5°	1100.1	1067.7	1028.3	979.7	926.4	866.2	801.3	734.2	657.8	586.0	504.9
80°	1046.8	1014.4	975.0	926.4	873.1	815.2	745.8	676.3	602.2	523.4	440.0
82.5°	995.9	965.8	921.8	877.8	819.9	762.0	692.5	623.0	544.3	467.8	386.8
85°	942.6	912.5	870.8	824.5	768.9	706.4	641.5	572.1	493.3	414.6	333.5
87.5°	896.3	861.6	819.9	773.6	718.0	657.8	595.2	521.1	444.7	368.2	284.9
90°	847.7	815.2	773.6	727.2	671.6	611.4	546.6	477.1	403.0	324.2	245.5
92.5°	806.0	771.2	731.9	685.5	630.0	572.1	507.2	437.7	365.9	289.5	213.1
95°	764.3	729.5	692.5	646.2	590.6	532.7	467.8	400.7	331.2	257.1	185.3
97.5°	718.0	687.9	650.8	606.8	551.2	495.6	433.1	368.2	301.1	229.3	162.1
100°	680.9	646.2	611.4	565.1	514.2	460.9	398.4	335.8	271.0	203.8	141.3
102.5°	639.2	606.8	572.1	528.1	477.1	423.8	365.9	305.7	245.5	183.0	122.7
105°	599.9	569.7	532.7	491.0	442.4	391.4	335.8	280.2	222.3	162.1	108.9
107.5°	560.5	530.4	495.6	456.3	409.9	359.0	308.0	252.4	199.2	145.9	97.3
110°	521.1	493.3	460.9	421.5	377.5	331.2	282.6	231.6	178.3	129.7	85.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	486.4	458.6	426.1	389.1	347.4	303.4	257.1	208.4	159.8	115.8	74.1
115°	451.6	426.1	393.7	361.3	319.6	277.9	233.9	187.6	143.6	104.2	64.8
117.5°	416.9	391.4	361.3	328.9	291.8	252.4	210.8	166.8	129.7	92.6	57.9
120°	382.1	359.0	331.2	301.1	268.7	229.3	187.6	150.5	115.8	81.1	51.0
122.5°	349.7	328.9	303.4	275.6	240.9	203.8	169.1	136.6	104.2	71.8	41.7
125°	319.6	298.8	275.6	247.8	215.4	183.0	152.9	122.7	90.3	62.5	34.7
127.5°	289.5	268.7	245.5	220.0	194.5	164.4	136.6	108.9	81.1	55.6	30.1
130°	259.4	240.9	220.0	199.2	173.7	145.9	122.7	95.0	69.5	44.0	25.5
132.5°	229.3	215.4	196.9	176.0	152.9	132.0	106.5	83.4	60.2	39.4	23.2
135°	203.8	189.9	173.7	155.2	136.6	115.8	92.6	71.8	51.0	32.4	18.5
137.5°	180.7	169.1	152.9	136.6	120.4	99.6	81.1	60.2	41.7	27.8	13.9
140°	159.8	148.2	134.3	118.1	104.2	85.7	67.2	48.6	37.1	23.2	11.6
142.5°	139.0	127.4	115.8	101.9	88.0	71.8	55.6	41.7	30.1	18.5	11.6
145°	118.1	108.9	97.3	85.7	71.8	57.9	46.3	34.7	23.2	13.9	9.3
147.5°	97.3	90.3	78.7	69.5	57.9	46.3	37.1	27.8	18.5	11.6	6.9
150°	78.7	71.8	62.5	53.3	46.3	37.1	30.1	20.8	13.9	11.6	6.9
152.5°	60.2	55.6	48.6	44.0	37.1	27.8	20.8	16.2	11.6	9.3	4.6
155°	48.6	44.0	39.4	32.4	27.8	20.8	16.2	11.6	9.3	6.9	4.6
157.5°	34.7	32.4	27.8	23.2	18.5	13.9	11.6	11.6	6.9	4.6	2.3
160°	23.2	20.8	18.5	13.9	11.6	11.6	9.3	6.9	4.6	4.6	2.3
162.5°	13.9	11.6	11.6	11.6	9.3	9.3	6.9	4.6	4.6	2.3	2.3
165°	9.3	9.3	9.3	6.9	6.9	6.9	4.6	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2197.9	2191.0	2200.2	2216.4	2218.8	2216.4	2211.8	2218.8	2228.0	2225.7	2209.5
5°	2193.3	2184.0	2193.3	2209.5	2209.5	2207.2	2204.9	2211.8	2221.1	2218.8	2204.9
7.5°	2179.4	2170.1	2179.4	2193.3	2195.6	2191.0	2191.0	2197.9	2207.2	2204.9	2193.3
10°	2160.9	2151.6	2156.2	2172.4	2177.1	2172.4	2172.4	2179.4	2191.0	2188.6	2174.8
12.5°	2133.1	2126.1	2130.7	2144.6	2149.3	2147.0	2144.6	2153.9	2165.5	2165.5	2151.6
15°	2103.0	2093.7	2098.3	2114.5	2116.9	2112.2	2114.5	2121.5	2135.4	2135.4	2123.8
17.5°	2068.2	2056.6	2063.6	2075.2	2077.5	2077.5	2077.5	2086.7	2103.0	2100.6	2091.4
20°	2028.8	2012.6	2017.3	2028.8	2033.5	2033.5	2033.5	2049.7	2061.3	2061.3	2052.0
22.5°	1982.5	1970.9	1970.9	1982.5	1989.5	1987.2	1987.2	2001.1	2017.3	2014.9	2014.9
25°	1929.3	1920.0	1915.4	1929.3	1931.6	1933.9	1938.5	1952.4	1970.9	1970.9	1973.3
27.5°	1873.7	1864.4	1862.1	1873.7	1876.0	1878.3	1882.9	1899.1	1917.7	1920.0	1924.6
30°	1820.4	1806.5	1801.9	1811.1	1815.8	1818.1	1818.1	1843.6	1859.8	1866.7	1876.0
32.5°	1757.9	1744.0	1732.4	1748.6	1750.9	1755.6	1757.9	1783.3	1801.9	1813.5	1827.3
35°	1695.3	1672.2	1667.5	1679.1	1683.8	1686.1	1690.7	1718.5	1744.0	1753.2	1771.8
37.5°	1625.9	1609.6	1595.7	1607.3	1612.0	1614.3	1628.2	1653.6	1679.1	1693.0	1711.5
40°	1561.0	1540.2	1528.6	1535.5	1540.2	1542.5	1558.7	1586.5	1616.6	1632.8	1656.0
42.5°	1489.2	1461.4	1452.2	1459.1	1461.4	1468.4	1482.3	1519.3	1549.4	1572.6	1591.1
45°	1417.4	1396.6	1375.7	1382.7	1385.0	1389.6	1410.5	1449.8	1482.3	1510.1	1530.9
47.5°	1343.3	1317.8	1297.0	1301.6	1310.9	1313.2	1336.4	1382.7	1412.8	1442.9	1470.7
50°	1269.2	1234.4	1218.2	1218.2	1222.9	1234.4	1264.6	1310.9	1343.3	1378.0	1408.1
52.5°	1192.8	1160.3	1141.8	1144.1	1148.8	1162.6	1190.4	1236.8	1273.8	1310.9	1347.9
55°	1116.3	1081.6	1063.1	1058.4	1063.1	1081.6	1114.0	1162.6	1199.7	1243.7	1283.1
57.5°	1039.9	998.2	982.0	975.0	979.7	1002.8	1035.3	1086.2	1132.5	1174.2	1220.5
60°	956.5	924.1	896.3	880.1	891.7	921.8	956.5	1009.8	1058.4	1104.7	1155.7
62.5°	884.7	843.0	812.9	796.7	808.3	833.8	882.4	933.4	986.6	1039.9	1090.9
65°	803.7	762.0	727.2	711.0	722.6	752.7	801.3	856.9	914.8	968.1	1028.3
67.5°	724.9	680.9	639.2	623.0	636.9	669.3	722.6	785.1	847.7	903.3	968.1
70°	648.5	599.9	555.8	544.3	553.5	597.5	648.5	711.0	775.9	840.7	907.9
72.5°	579.0	518.8	472.5	458.6	470.2	518.8	576.7	641.5	711.0	780.5	852.3
75°	497.9	442.4	391.4	375.2	389.1	433.1	504.9	574.4	648.5	722.6	789.8
77.5°	433.1	368.2	315.0	289.5	312.7	368.2	437.7	511.8	588.3	664.7	741.1
80°	365.9	298.8	240.9	213.1	238.6	298.8	368.2	449.3	535.0	611.4	680.9
82.5°	305.7	233.9	173.7	143.6	171.4	238.6	315.0	396.0	479.4	555.8	636.9
85°	250.1	176.0	113.5	81.1	120.4	180.7	261.7	345.1	430.8	509.5	588.3
87.5°	203.8	132.0	69.5	34.7	74.1	141.3	217.7	301.1	386.8	465.5	539.6
90°	166.8	95.0	37.1	4.6	44.0	106.5	180.7	261.7	342.8	423.8	497.9
92.5°	136.6	71.8	20.8	2.3	27.8	85.7	155.2	231.6	310.3	389.1	460.9
95°	113.5	55.6	13.9	2.3	20.8	67.2	132.0	206.1	280.2	356.7	428.5
97.5°	97.3	46.3	11.6	2.3	16.2	57.9	113.5	183.0	254.8	326.6	396.0
100°	83.4	37.1	9.3	2.3	13.9	48.6	99.6	162.1	229.3	298.8	365.9
102.5°	71.8	30.1	6.9	2.3	11.6	41.7	88.0	145.9	206.1	273.3	338.1
105°	62.5	25.5	6.9	2.3	9.3	37.1	78.7	129.7	189.9	250.1	312.7
107.5°	53.3	20.8	4.6	2.3	6.9	30.1	69.5	118.1	171.4	229.3	287.2
110°	46.3	18.5	4.6	2.3	6.9	27.8	60.2	106.5	155.2	208.4	264.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	39.4	13.9	4.6	2.3	4.6	23.2	53.3	95.0	141.3	189.9	243.2
115°	34.7	11.6	2.3	2.3	4.6	20.8	48.6	85.7	127.4	173.7	222.3
117.5°	27.8	9.3	2.3	2.3	2.3	16.2	41.7	76.4	115.8	159.8	203.8
120°	23.2	9.3	2.3	2.3	2.3	13.9	37.1	67.2	104.2	143.6	185.3
122.5°	20.8	6.9	2.3	2.3	2.3	11.6	32.4	60.2	92.6	129.7	169.1
125°	18.5	6.9	2.3	2.3	2.3	9.3	27.8	53.3	83.4	115.8	152.9
127.5°	13.9	6.9	2.3	2.3	2.3	6.9	25.5	46.3	74.1	104.2	136.6
130°	11.6	4.6	2.3	2.3	2.3	6.9	20.8	41.7	64.8	92.6	122.7
132.5°	9.3	4.6	2.3	2.3	2.3	4.6	16.2	32.4	55.6	81.1	108.9
135°	9.3	4.6	2.3	2.3	2.3	4.6	11.6	27.8	46.3	69.5	92.6
137.5°	9.3	2.3	2.3	2.3	2.3	4.6	9.3	20.8	37.1	55.6	76.4
140°	6.9	2.3	2.3	2.3	2.3	2.3	6.9	16.2	30.1	46.3	64.8
142.5°	6.9	2.3	2.3	2.3	2.3	2.3	6.9	11.6	23.2	37.1	51.0
145°	4.6	2.3	2.3	2.3	2.3	2.3	4.6	9.3	18.5	27.8	41.7
147.5°	4.6	2.3	2.3	2.3	2.3	2.3	4.6	6.9	13.9	23.2	32.4
150°	4.6	2.3	2.3	2.3	2.3	2.3	4.6	6.9	9.3	16.2	25.5
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	6.9	11.6	16.2
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	6.9	9.3	11.6
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	6.9	9.3
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	6.9
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2202.5	2186.3	2191.0	2188.6	2193.3	2200.2	2200.2	2197.9	2197.9	2193.3	2188.6
5°	2197.9	2181.7	2188.6	2186.3	2191.0	2197.9	2197.9	2195.6	2195.6	2188.6	2186.3
7.5°	2184.0	2172.4	2177.1	2177.1	2181.7	2188.6	2188.6	2186.3	2186.3	2179.4	2177.1
10°	2170.1	2156.2	2163.2	2163.2	2167.8	2177.1	2177.1	2174.8	2174.8	2167.8	2165.5
12.5°	2147.0	2133.1	2144.6	2147.0	2151.6	2160.9	2158.5	2158.5	2158.5	2151.6	2149.3
15°	2119.2	2109.9	2121.5	2123.8	2130.7	2142.3	2142.3	2142.3	2142.3	2135.4	2133.1
17.5°	2089.1	2082.1	2093.7	2098.3	2107.6	2119.2	2119.2	2121.5	2123.8	2119.2	2116.9
20°	2054.3	2049.7	2061.3	2070.5	2084.4	2096.0	2100.6	2103.0	2107.6	2103.0	2100.6
22.5°	2014.9	2014.9	2031.2	2040.4	2056.6	2068.2	2075.2	2082.1	2086.7	2082.1	2079.8
25°	1970.9	1977.9	1994.1	2010.3	2028.8	2040.4	2047.4	2056.6	2061.3	2059.0	2056.6
27.5°	1929.3	1938.5	1959.4	1975.6	1991.8	2010.3	2017.3	2028.8	2033.5	2033.5	2031.2
30°	1880.6	1894.5	1917.7	1936.2	1957.0	1975.6	1984.8	1996.4	2003.4	1998.7	2001.1
32.5°	1834.3	1857.5	1876.0	1896.8	1920.0	1938.5	1950.1	1964.0	1970.9	1968.6	1970.9
35°	1783.3	1806.5	1832.0	1852.8	1880.6	1899.1	1915.4	1926.9	1936.2	1933.9	1933.9
37.5°	1727.8	1757.9	1783.3	1811.1	1836.6	1857.5	1873.7	1887.6	1896.8	1896.8	1896.8
40°	1674.5	1706.9	1732.4	1764.8	1797.2	1815.8	1834.3	1848.2	1857.5	1859.8	1862.1
42.5°	1616.6	1651.3	1681.4	1716.2	1748.6	1771.8	1792.6	1808.8	1818.1	1822.7	1820.4
45°	1563.3	1595.7	1630.5	1669.9	1700.0	1723.1	1748.6	1767.1	1776.4	1778.7	1781.0
47.5°	1503.1	1540.2	1579.5	1618.9	1649.0	1679.1	1702.3	1720.8	1730.1	1737.0	1737.0
50°	1445.2	1484.6	1528.6	1570.3	1602.7	1632.8	1656.0	1676.8	1688.4	1693.0	1695.3
52.5°	1391.9	1429.0	1475.3	1517.0	1549.4	1579.5	1609.6	1632.8	1644.4	1649.0	1649.0
55°	1327.1	1373.4	1424.4	1463.7	1498.5	1533.2	1563.3	1586.5	1598.1	1605.0	1609.6
57.5°	1266.9	1315.5	1368.8	1410.5	1452.2	1484.6	1512.4	1542.5	1551.7	1561.0	1563.3
60°	1209.0	1257.6	1308.6	1354.9	1396.6	1431.3	1463.7	1489.2	1505.4	1510.1	1514.7
62.5°	1148.8	1199.7	1253.0	1299.3	1343.3	1385.0	1415.1	1438.3	1456.8	1463.7	1468.4
65°	1090.9	1144.1	1197.4	1246.0	1292.3	1334.0	1364.1	1387.3	1405.8	1417.4	1419.7
67.5°	1028.3	1086.2	1141.8	1192.8	1239.1	1283.1	1313.2	1336.4	1354.9	1368.8	1371.1
70°	970.4	1030.6	1086.2	1141.8	1188.1	1232.1	1264.6	1287.7	1308.6	1317.8	1322.5
72.5°	914.8	977.4	1035.3	1090.9	1137.2	1181.2	1215.9	1239.1	1259.9	1271.5	1273.8
75°	861.6	924.1	986.6	1039.9	1088.5	1132.5	1167.3	1192.8	1211.3	1222.9	1227.5
77.5°	808.3	873.1	935.7	988.9	1039.9	1083.9	1114.0	1144.1	1162.6	1176.5	1176.5
80°	755.0	822.2	887.0	940.3	991.3	1030.6	1065.4	1095.5	1114.0	1127.9	1127.9
82.5°	708.7	773.6	836.1	889.4	940.3	984.3	1019.1	1046.8	1067.7	1077.0	1079.3
85°	655.4	727.2	785.1	843.0	891.7	933.4	968.1	998.2	1016.7	1026.0	1030.6
87.5°	611.4	680.9	743.4	794.4	843.0	884.7	924.1	949.6	968.1	979.7	984.3
90°	569.7	636.9	699.4	750.4	801.3	840.7	877.8	903.3	924.1	933.4	938.0
92.5°	532.7	599.9	660.1	711.0	759.7	803.7	838.4	863.9	882.4	891.7	898.6
95°	497.9	562.8	620.7	676.3	722.6	762.0	799.0	824.5	845.4	852.3	859.2
97.5°	463.2	525.7	583.6	636.9	685.5	722.6	757.3	782.8	799.0	810.6	817.6
100°	433.1	493.3	548.9	599.9	646.2	680.9	718.0	741.1	757.3	766.6	775.9
102.5°	400.7	460.9	514.2	562.8	611.4	643.9	678.6	701.8	715.7	731.9	731.9
105°	372.9	428.5	481.7	528.1	569.7	609.1	639.2	662.4	678.6	690.2	690.2
107.5°	342.8	398.4	449.3	497.9	537.3	574.4	602.2	623.0	641.5	648.5	655.4
110°	319.6	368.2	419.2	465.5	502.6	537.3	565.1	588.3	604.5	611.4	616.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	291.8	342.8	389.1	433.1	470.2	502.6	530.4	548.9	565.1	574.4	576.7
115°	268.7	317.3	359.0	400.7	440.0	467.8	493.3	511.8	528.1	535.0	539.6
117.5°	247.8	291.8	333.5	368.2	405.3	435.4	460.9	477.1	491.0	500.3	504.9
120°	227.0	268.7	305.7	340.5	375.2	403.0	426.1	442.4	458.6	465.5	465.5
122.5°	206.1	245.5	280.2	312.7	345.1	370.6	396.0	409.9	423.8	430.8	430.8
125°	187.6	224.7	257.1	287.2	317.3	340.5	361.3	377.5	391.4	396.0	396.0
127.5°	169.1	203.8	233.9	261.7	287.2	310.3	331.2	347.4	359.0	363.6	363.6
130°	152.9	183.0	210.8	238.6	264.0	282.6	303.4	317.3	324.2	331.2	333.5
132.5°	136.6	164.4	189.9	213.1	238.6	257.1	273.3	287.2	294.1	301.1	303.4
135°	120.4	145.9	169.1	192.2	213.1	231.6	245.5	257.1	266.3	271.0	273.3
137.5°	101.9	129.7	150.5	169.1	192.2	206.1	222.3	229.3	238.6	243.2	243.2
140°	85.7	106.5	129.7	148.2	166.8	180.7	194.5	206.1	213.1	215.4	215.4
142.5°	69.5	88.0	106.5	129.7	145.9	157.5	171.4	180.7	185.3	187.6	189.9
145°	55.6	69.5	85.7	106.5	125.1	139.0	145.9	155.2	159.8	162.1	164.4
147.5°	41.7	55.6	69.5	83.4	101.9	115.8	122.7	132.0	136.6	139.0	139.0
150°	32.4	41.7	51.0	64.8	78.7	95.0	104.2	111.2	113.5	115.8	115.8
152.5°	23.2	32.4	39.4	48.6	57.9	71.8	85.7	90.3	92.6	95.0	95.0
155°	16.2	23.2	27.8	34.7	41.7	53.3	64.8	71.8	74.1	76.4	76.4
157.5°	11.6	16.2	18.5	25.5	30.1	34.7	44.0	55.6	57.9	57.9	57.9
160°	6.9	9.3	11.6	16.2	18.5	23.2	27.8	34.7	41.7	41.7	41.7
162.5°	4.6	6.9	6.9	9.3	9.3	13.9	16.2	18.5	25.5	27.8	27.8
165°	2.3	4.6	4.6	4.6	4.6	4.6	6.9	6.9	11.6	13.9	13.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2191.0	2195.6	2193.3	2193.3	2193.3	2197.9	2193.3	2172.4	2177.1	2181.7	2186.3
5°	2188.6	2191.0	2191.0	2188.6	2188.6	2193.3	2188.6	2167.8	2172.4	2177.1	2179.4
7.5°	2179.4	2181.7	2181.7	2181.7	2179.4	2184.0	2177.1	2158.5	2158.5	2163.2	2165.5
10°	2167.8	2172.4	2170.1	2167.8	2167.8	2167.8	2163.2	2142.3	2142.3	2144.6	2147.0
12.5°	2153.9	2153.9	2153.9	2151.6	2149.3	2149.3	2144.6	2123.8	2121.5	2126.1	2123.8
15°	2135.4	2140.0	2135.4	2133.1	2128.4	2128.4	2121.5	2100.6	2096.0	2098.3	2096.0
17.5°	2119.2	2121.5	2116.9	2112.2	2107.6	2105.3	2098.3	2075.2	2068.2	2070.5	2065.9
20°	2103.0	2103.0	2098.3	2093.7	2086.7	2079.8	2070.5	2047.4	2035.8	2035.8	2026.5
22.5°	2082.1	2082.1	2077.5	2070.5	2063.6	2054.3	2045.1	2021.9	2003.4	1998.7	1991.8
25°	2059.0	2056.6	2054.3	2047.4	2033.5	2024.2	2014.9	1989.5	1968.6	1959.4	1947.8
27.5°	2031.2	2031.2	2024.2	2017.3	2003.4	1991.8	1980.2	1957.0	1929.3	1917.7	1901.5
30°	2001.1	2001.1	1994.1	1984.8	1970.9	1957.0	1943.2	1915.4	1887.6	1871.4	1852.8
32.5°	1970.9	1968.6	1961.7	1952.4	1938.5	1917.7	1906.1	1878.3	1845.9	1827.3	1801.9
35°	1933.9	1931.6	1924.6	1913.0	1894.5	1878.3	1859.8	1834.3	1797.2	1774.1	1746.3
37.5°	1896.8	1894.5	1889.9	1873.7	1855.1	1836.6	1813.5	1788.0	1753.2	1723.1	1695.3
40°	1859.8	1857.5	1848.2	1836.6	1813.5	1790.3	1767.1	1741.7	1704.6	1669.9	1639.8
42.5°	1820.4	1818.1	1806.5	1792.6	1767.1	1744.0	1716.2	1688.4	1651.3	1609.6	1579.5
45°	1781.0	1776.4	1764.8	1748.6	1720.8	1695.3	1667.5	1635.1	1598.1	1558.7	1519.3
47.5°	1739.3	1732.4	1720.8	1697.7	1674.5	1646.7	1614.3	1579.5	1542.5	1498.5	1456.8
50°	1693.0	1688.4	1674.5	1653.6	1625.9	1598.1	1561.0	1526.3	1482.3	1440.6	1389.6
52.5°	1649.0	1639.8	1628.2	1605.0	1577.2	1547.1	1507.7	1466.0	1422.0	1382.7	1329.4
55°	1602.7	1598.1	1581.8	1563.3	1528.6	1493.8	1456.8	1412.8	1364.1	1317.8	1266.9
57.5°	1558.7	1549.4	1535.5	1510.1	1479.9	1445.2	1405.8	1359.5	1306.2	1257.6	1202.0
60°	1514.7	1500.8	1484.6	1461.4	1429.0	1391.9	1350.2	1301.6	1248.3	1195.1	1137.2
62.5°	1466.0	1454.5	1435.9	1412.8	1380.4	1341.0	1297.0	1246.0	1195.1	1139.5	1077.0
65°	1417.4	1405.8	1387.3	1364.1	1331.7	1287.7	1241.4	1190.4	1132.5	1079.3	1012.1
67.5°	1368.8	1357.2	1336.4	1310.9	1278.4	1236.8	1188.1	1134.9	1077.0	1019.1	949.6
70°	1320.1	1306.2	1287.7	1259.9	1227.5	1183.5	1134.9	1079.3	1021.4	958.8	889.4
72.5°	1271.5	1259.9	1236.8	1211.3	1176.5	1132.5	1083.9	1028.3	968.1	903.3	833.8
75°	1222.9	1209.0	1192.8	1162.6	1125.6	1083.9	1033.0	977.4	912.5	850.0	778.2
77.5°	1174.2	1162.6	1141.8	1111.7	1077.0	1033.0	982.0	926.4	861.6	796.7	720.3
80°	1125.6	1111.7	1095.5	1067.7	1028.3	984.3	931.0	875.5	810.6	743.4	667.0
82.5°	1077.0	1063.1	1044.5	1016.7	979.7	935.7	884.7	824.5	759.7	690.2	618.4
85°	1028.3	1016.7	995.9	968.1	928.7	884.7	833.8	780.5	711.0	641.5	569.7
87.5°	979.7	968.1	947.3	919.5	882.4	838.4	787.5	731.9	664.7	599.9	521.1
90°	933.4	924.1	903.3	875.5	838.4	794.4	748.1	687.9	623.0	558.2	484.1
92.5°	891.7	882.4	863.9	836.1	803.7	755.0	708.7	650.8	586.0	518.8	447.0
95°	854.6	843.0	824.5	799.0	759.7	718.0	671.6	613.7	551.2	484.1	414.6
97.5°	812.9	801.3	782.8	755.0	722.6	678.6	632.3	576.7	514.2	451.6	382.1
100°	771.2	759.7	738.8	715.7	683.2	639.2	595.2	539.6	481.7	421.5	354.4
102.5°	729.5	718.0	699.4	676.3	643.9	604.5	560.5	507.2	449.3	389.1	326.6
105°	690.2	678.6	660.1	636.9	606.8	567.4	521.1	474.8	419.2	361.3	301.1
107.5°	650.8	639.2	623.0	599.9	569.7	532.7	488.7	440.0	389.1	333.5	275.6
110°	611.4	602.2	583.6	562.8	532.7	495.6	456.3	409.9	359.0	308.0	252.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.4	565.1	546.6	523.4	497.9	463.2	423.8	379.8	331.2	282.6	229.3
115°	537.3	525.7	509.5	488.7	463.2	430.8	393.7	354.4	305.7	259.4	210.8
117.5°	500.3	491.0	474.8	453.9	430.8	398.4	363.6	326.6	280.2	236.2	192.2
120°	463.2	456.3	440.0	421.5	398.4	368.2	335.8	298.8	257.1	215.4	173.7
122.5°	428.5	421.5	405.3	389.1	365.9	338.1	308.0	273.3	236.2	196.9	159.8
125°	396.0	386.8	372.9	356.7	335.8	310.3	280.2	247.8	213.1	178.3	143.6
127.5°	361.3	354.4	345.1	326.6	305.7	282.6	254.8	227.0	194.5	162.1	129.7
130°	333.5	324.2	312.7	298.8	280.2	257.1	231.6	203.8	176.0	145.9	113.5
132.5°	301.1	291.8	282.6	268.7	252.4	231.6	208.4	183.0	157.5	129.7	101.9
135°	271.0	264.0	254.8	240.9	224.7	208.4	185.3	162.1	139.0	113.5	90.3
137.5°	243.2	236.2	227.0	217.7	201.5	185.3	164.4	143.6	122.7	99.6	78.7
140°	215.4	210.8	201.5	192.2	178.3	162.1	143.6	125.1	106.5	85.7	67.2
142.5°	187.6	183.0	176.0	166.8	155.2	141.3	125.1	108.9	90.3	74.1	57.9
145°	162.1	159.8	152.9	143.6	134.3	120.4	106.5	92.6	76.4	62.5	46.3
147.5°	136.6	134.3	129.7	122.7	113.5	101.9	90.3	76.4	64.8	51.0	37.1
150°	113.5	111.2	108.9	99.6	95.0	83.4	74.1	62.5	53.3	39.4	30.1
152.5°	92.6	92.6	88.0	81.1	76.4	67.2	60.2	51.0	41.7	32.4	23.2
155°	74.1	71.8	69.5	64.8	60.2	53.3	46.3	39.4	32.4	23.2	16.2
157.5°	57.9	55.6	53.3	48.6	44.0	41.7	34.7	27.8	20.8	16.2	11.6
160°	41.7	39.4	37.1	34.7	32.4	27.8	23.2	18.5	13.9	9.3	6.9
162.5°	27.8	25.5	25.5	23.2	20.8	16.2	13.9	11.6	9.3	6.9	4.6
165°	13.9	13.9	11.6	11.6	9.3	6.9	6.9	6.9	4.6	4.6	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2184.0	2184.0	2193.3	2191.0	2184.0	2197.9	2214.1
5°	2177.1	2177.1	2184.0	2184.0	2177.1	2191.0	2204.9
7.5°	2165.5	2163.2	2170.1	2170.1	2160.9	2172.4	2188.6
10°	2144.6	2142.3	2149.3	2149.3	2140.0	2151.6	2165.5
12.5°	2121.5	2116.9	2123.8	2121.5	2112.2	2123.8	2137.7
15°	2091.4	2089.1	2093.7	2089.1	2079.8	2091.4	2105.3
17.5°	2061.3	2054.3	2056.6	2056.6	2040.4	2052.0	2063.6
20°	2021.9	2012.6	2014.9	2012.6	2001.1	2008.0	2021.9
22.5°	1982.5	1968.6	1968.6	1966.3	1952.4	1961.7	1973.3
25°	1933.9	1917.7	1917.7	1915.4	1899.1	1906.1	1917.7
27.5°	1885.2	1869.0	1862.1	1859.8	1843.6	1843.6	1859.8
30°	1834.3	1811.1	1806.5	1799.6	1783.3	1783.3	1797.2
32.5°	1785.7	1753.2	1744.0	1734.7	1718.5	1716.2	1732.4
35°	1720.8	1695.3	1679.1	1669.9	1651.3	1646.7	1660.6
37.5°	1667.5	1635.1	1612.0	1600.4	1581.8	1574.9	1593.4
40°	1609.6	1574.9	1544.8	1537.8	1510.1	1500.8	1517.0
42.5°	1544.8	1507.7	1477.6	1463.7	1442.9	1433.6	1435.9
45°	1479.9	1440.6	1408.1	1389.6	1368.8	1352.6	1361.8
47.5°	1412.8	1378.0	1338.7	1310.9	1285.4	1273.8	1278.4
50°	1345.6	1303.9	1266.9	1236.8	1206.7	1192.8	1202.0
52.5°	1278.4	1234.4	1192.8	1160.3	1125.6	1111.7	1114.0
55°	1213.6	1167.3	1118.6	1083.9	1051.5	1030.6	1026.0
57.5°	1148.8	1097.8	1046.8	1007.5	965.8	947.3	940.3
60°	1079.3	1026.0	972.7	926.4	882.4	861.6	852.3
62.5°	1014.4	956.5	896.3	847.7	803.7	775.9	768.9
65°	951.9	884.7	824.5	768.9	720.3	690.2	680.9
67.5°	884.7	815.2	750.4	690.2	643.9	604.5	599.9
70°	822.2	748.1	676.3	613.7	562.8	523.4	504.9
72.5°	759.7	683.2	609.1	542.0	477.1	440.0	426.1
75°	699.4	620.7	542.0	472.5	400.7	356.7	342.8
77.5°	643.9	562.8	479.4	403.0	335.8	280.2	261.7
80°	590.6	507.2	419.2	340.5	268.7	208.4	187.6
82.5°	535.0	456.3	365.9	282.6	208.4	145.9	120.4
85°	486.4	407.6	317.3	233.9	159.8	92.6	64.8
87.5°	447.0	361.3	280.2	196.9	120.4	53.3	18.5
90°	407.6	324.2	243.2	162.1	90.3	30.1	2.3
92.5°	372.9	294.1	213.1	139.0	69.5	20.8	2.3
95°	340.5	264.0	187.6	115.8	55.6	13.9	2.3
97.5°	310.3	238.6	166.8	99.6	46.3	11.6	2.3
100°	284.9	215.4	148.2	88.0	39.4	9.3	2.3
102.5°	259.4	194.5	132.0	76.4	34.7	6.9	2.3
105°	238.6	176.0	118.1	69.5	30.1	6.9	2.3
107.5°	217.7	159.8	106.5	60.2	25.5	4.6	2.3
110°	196.9	145.9	95.0	53.3	23.2	4.6	2.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	180.7	132.0	85.7	48.6	18.5	4.6	2.3
115°	164.4	118.1	76.4	41.7	16.2	2.3	2.3
117.5°	148.2	106.5	67.2	37.1	13.9	2.3	2.3
120°	134.3	95.0	60.2	32.4	11.6	2.3	2.3
122.5°	120.4	85.7	53.3	27.8	9.3	2.3	2.3
125°	108.9	76.4	46.3	23.2	6.9	2.3	2.3
127.5°	97.3	67.2	41.7	20.8	6.9	2.3	2.3
130°	85.7	60.2	34.7	16.2	4.6	2.3	2.3
132.5°	76.4	51.0	30.1	13.9	4.6	2.3	2.3
135°	67.2	44.0	25.5	9.3	4.6	2.3	2.3
137.5°	57.9	37.1	20.8	6.9	2.3	2.3	2.3
140°	48.6	32.4	16.2	6.9	2.3	2.3	2.3
142.5°	41.7	25.5	11.6	4.6	2.3	2.3	2.3
145°	32.4	20.8	9.3	4.6	2.3	2.3	2.3
147.5°	25.5	16.2	6.9	4.6	2.3	2.3	2.3
150°	18.5	11.6	6.9	2.3	2.3	2.3	2.3
152.5°	13.9	9.3	4.6	2.3	2.3	2.3	2.3
155°	9.3	6.9	4.6	2.3	2.3	2.3	2.3
157.5°	6.9	4.6	2.3	2.3	2.3	2.3	2.3
160°	4.6	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)