

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-L940-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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

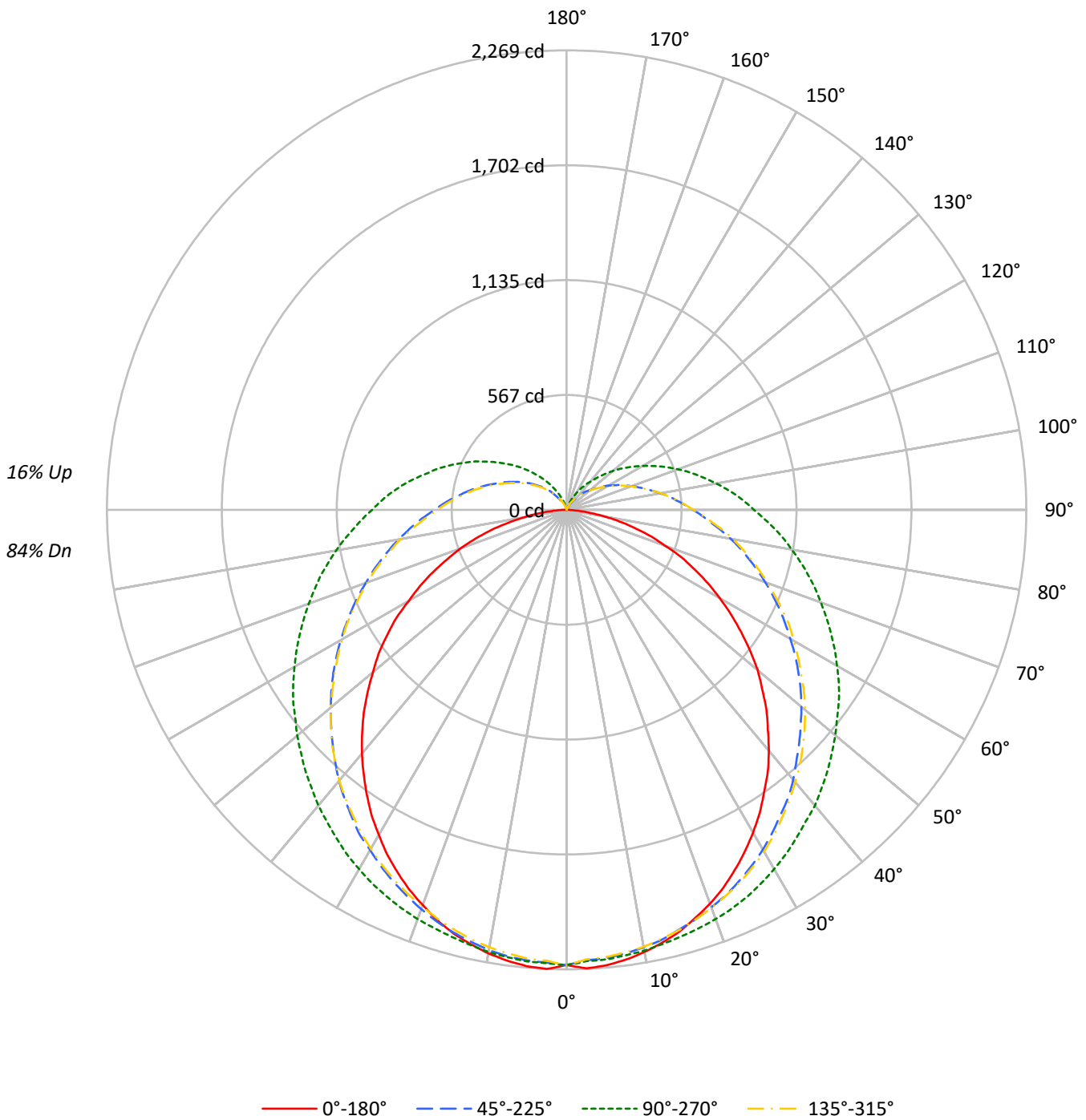
Lumens per Lamp: N/A  
Luminaire Lumens: 9765.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

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																		
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	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°	9081	9081	9081	9081
5°	9142	8752	9161	8789
10°	9070	8503	9099	8531
15°	8978	8290	9017	8299
20°	8849	8135	8880	8135
25°	8689	7997	8741	7988
30°	8507	7855	8573	7855
35°	8294	7723	8387	7733
40°	8085	7646	8184	7646
45°	7844	7565	7963	7575
50°	7593	7517	7696	7537
55°	7237	7524	7466	7557
60°	6865	7547	7088	7593
65°	6448	7623	6734	7698
70°	5855	7763	6312	7873
75°	5176	8017	5666	8171
80°	4104	8393	4662	8586
85°	2612	8996	3265	9246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	2.2
10°-20°	611.9	6.3
20°-30°	938.2	9.6
30°-40°	1157.4	11.9
40°-50°	1255.7	12.9
50°-60°	1237.7	12.7
60°-70°	1119.0	11.5
70°-80°	932.3	9.5
80°-90°	722.1	7.4
90°-100°	547.6	5.6
100°-110°	405.2	4.2
110°-120°	281.9	2.9
120°-130°	179.9	1.8
130°-140°	100.9	1.0
140°-150°	46.1	0.5
150°-160°	14.3	0.1
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1763.1	18.1
0°-40°	2920.5	29.9
0°-60°	5414.0	55.4
0°-90°	8187.3	83.8
90°-120°	1234.8	12.6
90°-150°	1561.6	16.0
90°-180°	1578.0	16.2
0°-180°	9765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2248	2248	2248	2248	2248	
5°	2257	2229	2262	2238	2257	214
15°	2155	2181	2165	2184	2155	607
25°	1963	2108	1975	2105	1963	904
35°	1700	1977	1719	1980	1700	1065
45°	1394	1821	1415	1823	1394	1074
55°	1050	1641	1084	1648	1050	940
65°	697	1439	728	1453	697	691
75°	351	1233	384	1257	351	371
85°	66	1027	83	1055	66	80
90°	2	925	5	960	2	4
95°	2	839	2	880	2	2
105°	2	666	2	706	2	3
115°	2	507	2	552	2	2
125°	2	365	2	405	2	2
135°	2	237	2	280	2	2
145°	2	138	2	168	2	2
155°	2	57	2	78	2	1
165°	2	10	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-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2266.6	2266.6	2264.2	2259.5	2261.8	2269.0	2264.2	2252.4	2245.2	2226.3	2231.0
5°	2257.1	2257.1	2254.7	2250.0	2252.4	2261.8	2257.1	2247.6	2238.1	2221.5	2228.6
7.5°	2240.5	2240.5	2238.1	2233.4	2238.1	2247.6	2242.9	2233.4	2226.3	2209.7	2216.8
10°	2216.8	2219.2	2216.8	2209.7	2219.2	2228.6	2226.3	2214.4	2207.3	2193.1	2200.2
12.5°	2188.3	2190.7	2188.3	2186.0	2190.7	2204.9	2200.2	2190.7	2186.0	2174.1	2181.2
15°	2155.2	2157.5	2152.8	2152.8	2157.5	2171.7	2171.7	2162.3	2157.5	2145.7	2159.9
17.5°	2112.5	2114.8	2112.5	2112.5	2117.2	2131.4	2133.8	2129.1	2124.3	2119.6	2133.8
20°	2069.8	2067.4	2067.4	2065.1	2074.5	2095.9	2093.5	2093.5	2088.8	2088.8	2105.4
22.5°	2020.0	2020.0	2017.6	2017.6	2029.5	2048.5	2048.5	2053.2	2048.5	2057.9	2072.2
25°	1963.1	1965.5	1963.1	1967.8	1977.3	1998.7	2001.0	2008.2	2010.5	2020.0	2036.6
27.5°	1903.8	1906.2	1903.8	1908.6	1925.2	1941.8	1953.6	1963.1	1965.5	1979.7	2001.0
30°	1839.8	1839.8	1842.2	1846.9	1865.9	1892.0	1901.5	1913.3	1913.3	1937.0	1958.4
32.5°	1773.4	1773.4	1773.4	1782.9	1804.3	1835.1	1846.9	1861.2	1865.9	1889.6	1913.3
35°	1699.9	1702.3	1702.3	1709.4	1737.9	1768.7	1785.3	1801.9	1811.4	1839.8	1863.5
37.5°	1631.2	1635.9	1628.8	1638.3	1678.6	1704.7	1723.6	1740.2	1756.8	1794.8	1813.7
40°	1552.9	1557.7	1555.3	1574.3	1607.5	1640.7	1662.0	1678.6	1702.3	1740.2	1761.6
42.5°	1470.0	1474.7	1479.4	1500.8	1536.3	1569.5	1595.6	1617.0	1645.4	1678.6	1714.2
45°	1394.1	1394.1	1401.2	1427.3	1465.2	1500.8	1531.6	1555.3	1588.5	1624.1	1659.6
47.5°	1308.7	1311.1	1320.6	1351.4	1391.7	1434.4	1462.8	1493.7	1529.2	1567.2	1607.5
50°	1230.5	1230.5	1244.7	1277.9	1315.9	1363.3	1394.1	1429.7	1467.6	1512.6	1552.9
52.5°	1140.4	1145.1	1166.5	1197.3	1247.1	1289.8	1325.3	1363.3	1408.3	1455.7	1500.8
55°	1050.3	1059.8	1076.4	1119.1	1171.2	1211.5	1254.2	1301.6	1344.3	1396.5	1448.6
57.5°	962.6	969.7	995.8	1038.5	1093.0	1142.8	1187.8	1232.9	1285.0	1337.2	1391.7
60°	872.5	882.0	912.8	955.5	1014.7	1066.9	1119.1	1166.5	1221.0	1275.5	1332.4
62.5°	787.1	794.3	829.8	879.6	938.9	995.8	1047.9	1104.8	1164.1	1216.3	1273.2
65°	697.0	708.9	749.2	794.3	863.0	919.9	979.2	1040.8	1102.5	1159.4	1213.9
67.5°	614.1	621.2	663.9	716.0	784.8	848.8	910.4	976.8	1040.8	1100.1	1154.6
70°	516.9	540.6	583.2	637.8	711.3	777.7	844.0	912.8	981.6	1043.2	1095.4
72.5°	436.2	455.2	502.6	561.9	633.0	711.3	780.0	853.5	922.3	986.3	1040.8
75°	350.9	369.9	424.4	490.8	564.3	647.3	718.4	794.3	865.4	929.4	986.3
77.5°	267.9	291.6	350.9	419.6	500.3	585.6	659.1	735.0	808.5	877.2	934.1
80°	192.0	218.1	282.1	360.4	438.6	524.0	604.6	680.4	753.9	822.7	882.0
82.5°	123.3	151.7	220.5	298.7	381.7	467.1	550.0	625.9	699.4	768.2	829.8
85°	66.4	97.2	168.3	246.6	329.6	414.9	497.9	578.5	649.6	713.6	780.0
87.5°	19.0	56.9	125.7	203.9	289.3	367.5	448.1	528.7	599.8	668.6	727.9
90°	2.4	33.2	94.8	168.3	251.3	327.2	407.8	483.7	554.8	623.5	682.8
92.5°	2.4	21.3	73.5	139.9	215.8	294.0	374.6	448.1	514.5	583.2	642.5
95°	2.4	16.6	59.3	118.5	189.7	263.2	339.0	410.2	478.9	542.9	602.2
97.5°	2.4	11.9	47.4	101.9	166.0	234.7	308.2	379.3	445.7	507.4	561.9
100°	2.4	9.5	37.9	87.7	144.6	211.0	277.4	346.2	410.2	469.4	526.3
102.5°	2.4	7.1	33.2	73.5	128.0	187.3	251.3	315.3	377.0	433.9	490.8
105°	2.4	7.1	28.5	64.0	113.8	168.3	227.6	289.3	346.2	400.7	452.8
107.5°	2.4	4.7	23.7	54.5	99.6	151.7	206.3	265.5	317.7	369.9	419.6
110°	2.4	4.7	19.0	49.8	87.7	135.1	187.3	241.8	291.6	341.4	388.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.4	4.7	16.6	42.7	75.9	120.9	168.3	218.1	265.5	315.3	358.0
115°	2.4	4.7	14.2	37.9	71.1	104.3	151.7	196.8	244.2	289.3	329.6
117.5°	2.4	4.7	11.9	30.8	61.6	94.8	132.8	177.8	220.5	263.2	301.1
120°	2.4	4.7	9.5	28.5	54.5	85.4	118.5	158.9	199.2	239.5	279.8
122.5°	2.4	2.4	9.5	23.7	47.4	75.9	109.1	139.9	177.8	215.8	251.3
125°	2.4	2.4	9.5	21.3	40.3	68.8	97.2	125.7	158.9	192.0	222.9
127.5°	2.4	2.4	7.1	16.6	35.6	59.3	85.4	116.2	139.9	170.7	201.5
130°	2.4	2.4	7.1	14.2	30.8	49.8	75.9	101.9	130.4	151.7	177.8
132.5°	2.4	2.4	7.1	11.9	23.7	40.3	64.0	87.7	113.8	137.5	158.9
135°	2.4	2.4	4.7	9.5	19.0	33.2	52.2	73.5	99.6	123.3	144.6
137.5°	2.4	2.4	4.7	9.5	14.2	28.5	40.3	59.3	83.0	104.3	125.7
140°	2.4	2.4	4.7	7.1	11.9	21.3	33.2	47.4	66.4	85.4	109.1
142.5°	2.4	2.4	2.4	7.1	9.5	16.6	26.1	37.9	52.2	68.8	87.7
145°	2.4	2.4	2.4	7.1	9.5	11.9	21.3	30.8	40.3	52.2	68.8
147.5°	2.4	2.4	2.4	4.7	7.1	9.5	16.6	23.7	30.8	40.3	49.8
150°	2.4	2.4	2.4	4.7	7.1	9.5	11.9	16.6	23.7	33.2	40.3
152.5°	2.4	2.4	2.4	4.7	4.7	7.1	9.5	11.9	16.6	23.7	28.5
155°	2.4	2.4	2.4	2.4	4.7	7.1	9.5	9.5	11.9	16.6	21.3
157.5°	2.4	2.4	2.4	2.4	4.7	4.7	7.1	7.1	9.5	9.5	14.2
160°	2.4	2.4	2.4	2.4	2.4	4.7	4.7	7.1	7.1	7.1	7.1
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	4.7	4.7	4.7	7.1	7.1
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.7	4.7	4.7
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°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2231.0	2233.4	2240.5	2240.5	2235.8	2235.8	2233.4	2231.0	2233.4	2238.1	2238.1
5°	2226.3	2228.6	2235.8	2238.1	2233.4	2231.0	2231.0	2228.6	2231.0	2235.8	2235.8
7.5°	2216.8	2219.2	2226.3	2228.6	2223.9	2223.9	2221.5	2219.2	2223.9	2226.3	2226.3
10°	2202.6	2204.9	2214.4	2216.8	2214.4	2212.1	2212.1	2209.7	2212.1	2216.8	2216.8
12.5°	2183.6	2188.3	2200.2	2200.2	2200.2	2197.8	2197.8	2195.5	2197.8	2202.6	2200.2
15°	2162.3	2171.7	2181.2	2186.0	2186.0	2186.0	2183.6	2181.2	2186.0	2188.3	2186.0
17.5°	2138.6	2150.4	2164.6	2169.4	2169.4	2171.7	2169.4	2167.0	2171.7	2171.7	2169.4
20°	2114.8	2126.7	2140.9	2145.7	2150.4	2152.8	2152.8	2150.4	2152.8	2155.2	2152.8
22.5°	2084.0	2098.2	2114.8	2122.0	2126.7	2131.4	2131.4	2131.4	2133.8	2136.2	2131.4
25°	2050.8	2067.4	2086.4	2093.5	2103.0	2105.4	2107.7	2107.7	2110.1	2112.5	2105.4
27.5°	2015.3	2034.2	2053.2	2065.1	2072.2	2076.9	2076.9	2079.3	2081.7	2084.0	2076.9
30°	1972.6	2001.0	2017.6	2027.1	2036.6	2043.7	2046.1	2048.5	2050.8	2053.2	2046.1
32.5°	1934.7	1958.4	1979.7	1991.6	2003.4	2012.9	2015.3	2015.3	2020.0	2020.0	2012.9
35°	1889.6	1918.1	1939.4	1951.3	1965.5	1972.6	1977.3	1977.3	1982.1	1982.1	1975.0
37.5°	1844.6	1873.0	1896.7	1910.9	1927.5	1937.0	1939.4	1939.4	1944.1	1944.1	1934.7
40°	1797.1	1828.0	1854.0	1870.6	1884.9	1896.7	1899.1	1906.2	1906.2	1903.8	1894.4
42.5°	1749.7	1778.2	1806.6	1825.6	1844.6	1856.4	1861.2	1863.5	1863.5	1861.2	1854.0
45°	1697.6	1730.8	1756.8	1780.5	1799.5	1811.4	1818.5	1820.9	1820.9	1816.1	1809.0
47.5°	1647.8	1681.0	1707.1	1733.1	1752.1	1766.3	1773.4	1775.8	1773.4	1771.1	1764.0
50°	1595.6	1633.6	1659.6	1685.7	1704.7	1716.5	1728.4	1730.8	1728.4	1726.0	1711.8
52.5°	1541.1	1581.4	1609.8	1635.9	1657.3	1671.5	1681.0	1683.3	1683.3	1678.6	1669.1
55°	1486.6	1522.1	1557.7	1586.1	1609.8	1624.1	1635.9	1640.7	1635.9	1631.2	1619.3
57.5°	1436.8	1470.0	1505.5	1536.3	1560.1	1579.0	1588.5	1593.2	1588.5	1581.4	1569.5
60°	1377.5	1413.1	1453.4	1481.8	1507.9	1526.9	1531.6	1541.1	1536.3	1529.2	1517.4
62.5°	1320.6	1363.3	1398.8	1434.4	1455.7	1477.1	1486.6	1491.3	1486.6	1479.4	1467.6
65°	1261.3	1308.7	1344.3	1379.9	1403.6	1424.9	1436.8	1439.1	1434.4	1427.3	1415.4
67.5°	1206.8	1251.8	1289.8	1327.7	1349.0	1370.4	1382.2	1387.0	1382.2	1372.8	1360.9
70°	1152.3	1197.3	1242.4	1270.8	1296.9	1320.6	1327.7	1334.8	1330.1	1320.6	1306.4
72.5°	1097.7	1145.1	1190.2	1218.6	1247.1	1268.4	1277.9	1285.0	1280.3	1270.8	1254.2
75°	1040.8	1090.6	1135.7	1166.5	1194.9	1216.3	1225.8	1232.9	1228.1	1218.6	1199.7
77.5°	988.7	1038.5	1081.1	1114.3	1142.8	1161.7	1178.3	1180.7	1176.0	1166.5	1147.5
80°	934.1	983.9	1029.0	1062.2	1090.6	1109.6	1121.4	1128.6	1123.8	1114.3	1095.4
82.5°	886.7	931.8	976.8	1010.0	1038.5	1062.2	1071.6	1078.8	1076.4	1062.2	1047.9
85°	834.6	886.7	922.3	957.8	986.3	1010.0	1017.1	1026.6	1024.2	1012.4	993.4
87.5°	782.4	834.6	877.2	912.8	938.9	957.8	969.7	974.4	972.1	960.2	938.9
90°	739.7	787.1	829.8	867.8	889.1	910.4	922.3	924.7	924.7	910.4	893.8
92.5°	699.4	744.5	787.1	822.7	848.8	867.8	877.2	882.0	879.6	867.8	848.8
95°	654.4	704.2	744.5	780.0	806.1	825.1	834.6	839.3	836.9	825.1	806.1
97.5°	616.4	661.5	701.8	735.0	761.1	780.0	789.5	794.3	794.3	782.4	763.4
100°	578.5	623.5	661.5	694.7	718.4	737.4	746.8	749.2	746.8	737.4	718.4
102.5°	540.6	583.2	621.2	652.0	678.1	694.7	704.2	706.5	706.5	694.7	675.7
105°	502.6	545.3	580.9	614.1	635.4	652.0	659.1	666.2	663.9	654.4	635.4
107.5°	467.1	509.7	542.9	573.8	595.1	611.7	618.8	625.9	623.5	614.1	595.1
110°	433.9	474.2	505.0	535.8	554.8	571.4	583.2	585.6	580.9	571.4	554.8





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	403.1	438.6	469.4	497.9	519.2	531.1	540.6	545.3	540.6	531.1	519.2
115°	369.9	405.4	436.2	462.3	481.3	495.5	502.6	507.4	502.6	493.1	481.3
117.5°	339.0	372.2	403.1	429.1	445.7	457.6	464.7	469.4	464.7	457.6	445.7
120°	313.0	341.4	369.9	393.6	412.5	422.0	429.1	433.9	431.5	422.0	410.2
122.5°	282.1	313.0	339.0	362.7	379.3	388.8	393.6	398.3	395.9	388.8	377.0
125°	256.1	282.1	308.2	329.6	346.2	355.6	360.4	365.1	362.7	355.6	341.4
127.5°	227.6	256.1	277.4	298.7	310.6	324.8	327.2	331.9	329.6	322.4	310.6
130°	206.3	227.6	248.9	267.9	282.1	291.6	296.4	298.7	294.0	289.3	277.4
132.5°	180.2	203.9	222.9	239.5	248.9	258.4	263.2	265.5	265.5	258.4	248.9
135°	161.2	177.8	194.4	211.0	220.5	230.0	234.7	237.1	234.7	230.0	220.5
137.5°	144.6	158.9	170.7	184.9	196.8	201.5	206.3	206.3	203.9	201.5	194.4
140°	125.7	142.3	154.1	163.6	173.1	175.4	180.2	180.2	177.8	175.4	170.7
142.5°	106.7	120.9	132.8	144.6	151.7	156.5	158.9	161.2	158.9	156.5	149.4
145°	85.4	101.9	113.8	120.9	130.4	132.8	135.1	137.5	135.1	132.8	125.7
147.5°	66.4	80.6	92.5	101.9	109.1	111.4	113.8	116.2	113.8	109.1	106.7
150°	47.4	59.3	73.5	83.0	87.7	92.5	92.5	92.5	94.8	90.1	85.4
152.5°	37.9	42.7	52.2	61.6	68.8	71.1	73.5	73.5	71.1	71.1	66.4
155°	26.1	30.8	37.9	45.0	52.2	54.5	56.9	56.9	54.5	54.5	52.2
157.5°	16.6	21.3	26.1	30.8	37.9	40.3	42.7	42.7	42.7	40.3	37.9
160°	9.5	11.9	14.2	19.0	23.7	26.1	28.5	28.5	28.5	28.5	26.1
162.5°	7.1	7.1	7.1	9.5	11.9	14.2	16.6	16.6	16.6	16.6	14.2
165°	4.7	4.7	4.7	4.7	4.7	7.1	9.5	9.5	9.5	9.5	9.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2235.8	2235.8	2238.1	2233.4	2219.2	2221.5	2221.5	2231.0	2235.8	2238.1	2250.0
5°	2231.0	2231.0	2235.8	2228.6	2216.8	2216.8	2216.8	2226.3	2228.6	2233.4	2242.9
7.5°	2223.9	2223.9	2226.3	2219.2	2204.9	2204.9	2202.6	2212.1	2216.8	2219.2	2228.6
10°	2212.1	2212.1	2214.4	2207.3	2190.7	2190.7	2188.3	2195.5	2197.8	2202.6	2209.7
12.5°	2195.5	2195.5	2195.5	2188.3	2171.7	2169.4	2167.0	2174.1	2174.1	2176.5	2183.6
15°	2181.2	2176.5	2176.5	2169.4	2152.8	2148.0	2143.3	2145.7	2150.4	2148.0	2152.8
17.5°	2164.6	2159.9	2155.2	2148.0	2126.7	2119.6	2114.8	2117.2	2114.8	2112.5	2117.2
20°	2145.7	2138.6	2136.2	2124.3	2103.0	2091.1	2081.7	2076.9	2079.3	2072.2	2074.5
22.5°	2124.3	2114.8	2110.1	2095.9	2074.5	2060.3	2048.5	2039.0	2036.6	2027.1	2029.5
25°	2098.2	2086.4	2079.3	2067.4	2043.7	2027.1	2012.9	1998.7	1991.6	1979.7	1977.3
27.5°	2067.4	2055.6	2046.1	2034.2	2010.5	1989.2	1972.6	1953.6	1944.1	1929.9	1922.8
30°	2036.6	2022.4	2008.2	1998.7	1972.6	1948.9	1922.8	1906.2	1892.0	1875.4	1863.5
32.5°	1998.7	1984.4	1970.2	1956.0	1932.3	1903.8	1882.5	1856.4	1839.8	1820.9	1806.6
35°	1960.7	1941.8	1927.5	1908.6	1887.2	1854.0	1828.0	1801.9	1780.5	1759.2	1742.6
37.5°	1918.1	1903.8	1882.5	1865.9	1839.8	1806.6	1778.2	1745.0	1726.0	1697.6	1676.2
40°	1877.8	1861.2	1839.8	1818.5	1792.4	1754.5	1723.6	1685.7	1664.4	1631.2	1609.8
42.5°	1837.5	1813.7	1792.4	1768.7	1740.2	1704.7	1666.7	1628.8	1600.4	1569.5	1538.7
45°	1792.4	1766.3	1740.2	1714.2	1685.7	1650.1	1609.8	1569.5	1534.0	1505.5	1467.6
47.5°	1745.0	1718.9	1688.1	1659.6	1628.8	1593.2	1550.6	1507.9	1470.0	1436.8	1396.5
50°	1697.6	1671.5	1638.3	1607.5	1571.9	1536.3	1491.3	1441.5	1401.2	1358.5	1323.0
52.5°	1647.8	1621.7	1590.9	1550.6	1512.6	1477.1	1429.7	1377.5	1332.4	1296.9	1251.8
55°	1598.0	1571.9	1536.3	1496.0	1458.1	1413.1	1368.0	1315.9	1266.1	1223.4	1178.3
57.5°	1545.8	1522.1	1481.8	1448.6	1401.2	1353.8	1306.4	1256.6	1202.0	1152.3	1100.1
60°	1493.7	1467.6	1429.7	1389.3	1341.9	1294.5	1244.7	1190.2	1133.3	1078.8	1031.3
62.5°	1446.3	1413.1	1377.5	1334.8	1285.0	1240.0	1183.1	1123.8	1066.9	1010.0	953.1
65°	1391.7	1356.2	1323.0	1280.3	1228.1	1176.0	1119.1	1059.8	998.2	936.5	879.6
67.5°	1337.2	1301.6	1266.1	1223.4	1168.9	1114.3	1055.1	995.8	927.0	867.8	801.4
70°	1282.7	1254.2	1209.2	1164.1	1114.3	1055.1	995.8	931.8	860.6	796.6	727.9
72.5°	1228.1	1199.7	1154.6	1107.2	1059.8	998.2	934.1	870.1	803.7	730.2	656.7
75°	1176.0	1140.4	1100.1	1055.1	1005.3	941.2	877.2	810.8	732.6	663.9	588.0
77.5°	1126.2	1093.0	1052.7	1002.9	948.4	886.7	820.3	751.6	673.3	599.8	516.9
80°	1071.6	1038.5	998.2	948.4	893.8	834.6	763.4	692.3	616.4	535.8	450.5
82.5°	1019.5	988.7	943.6	898.6	839.3	780.0	708.9	637.8	557.2	478.9	395.9
85°	965.0	934.1	891.5	844.0	787.1	723.1	656.7	585.6	505.0	424.4	341.4
87.5°	917.5	882.0	839.3	791.9	735.0	673.3	609.3	533.5	455.2	377.0	291.6
90°	867.8	834.6	791.9	744.5	687.6	625.9	559.5	488.4	412.5	331.9	251.3
92.5°	825.1	789.5	749.2	701.8	644.9	585.6	519.2	448.1	374.6	296.4	218.1
95°	782.4	746.8	708.9	661.5	604.6	545.3	478.9	410.2	339.0	263.2	189.7
97.5°	735.0	704.2	666.2	621.2	564.3	507.4	443.4	377.0	308.2	234.7	166.0
100°	697.0	661.5	625.9	578.5	526.3	471.8	407.8	343.8	277.4	208.6	144.6
102.5°	654.4	621.2	585.6	540.6	488.4	433.9	374.6	313.0	251.3	187.3	125.7
105°	614.1	583.2	545.3	502.6	452.8	400.7	343.8	286.9	227.6	166.0	111.4
107.5°	573.8	542.9	507.4	467.1	419.6	367.5	315.3	258.4	203.9	149.4	99.6
110°	533.5	505.0	471.8	431.5	386.5	339.0	289.3	237.1	182.6	132.8	87.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	497.9	469.4	436.2	398.3	355.6	310.6	263.2	213.4	163.6	118.5	75.9
115°	462.3	436.2	403.1	369.9	327.2	284.5	239.5	192.0	147.0	106.7	66.4
117.5°	426.8	400.7	369.9	336.7	298.7	258.4	215.8	170.7	132.8	94.8	59.3
120°	391.2	367.5	339.0	308.2	275.0	234.7	192.0	154.1	118.5	83.0	52.2
122.5°	358.0	336.7	310.6	282.1	246.6	208.6	173.1	139.9	106.7	73.5	42.7
125°	327.2	305.8	282.1	253.7	220.5	187.3	156.5	125.7	92.5	64.0	35.6
127.5°	296.4	275.0	251.3	225.2	199.2	168.3	139.9	111.4	83.0	56.9	30.8
130°	265.5	246.6	225.2	203.9	177.8	149.4	125.7	97.2	71.1	45.0	26.1
132.5°	234.7	220.5	201.5	180.2	156.5	135.1	109.1	85.4	61.6	40.3	23.7
135°	208.6	194.4	177.8	158.9	139.9	118.5	94.8	73.5	52.2	33.2	19.0
137.5°	184.9	173.1	156.5	139.9	123.3	101.9	83.0	61.6	42.7	28.5	14.2
140°	163.6	151.7	137.5	120.9	106.7	87.7	68.8	49.8	37.9	23.7	11.9
142.5°	142.3	130.4	118.5	104.3	90.1	73.5	56.9	42.7	30.8	19.0	11.9
145°	120.9	111.4	99.6	87.7	73.5	59.3	47.4	35.6	23.7	14.2	9.5
147.5°	99.6	92.5	80.6	71.1	59.3	47.4	37.9	28.5	19.0	11.9	7.1
150°	80.6	73.5	64.0	54.5	47.4	37.9	30.8	21.3	14.2	11.9	7.1
152.5°	61.6	56.9	49.8	45.0	37.9	28.5	21.3	16.6	11.9	9.5	4.7
155°	49.8	45.0	40.3	33.2	28.5	21.3	16.6	11.9	9.5	7.1	4.7
157.5°	35.6	33.2	28.5	23.7	19.0	14.2	11.9	11.9	7.1	4.7	2.4
160°	23.7	21.3	19.0	14.2	11.9	11.9	9.5	7.1	4.7	4.7	2.4
162.5°	14.2	11.9	11.9	11.9	9.5	9.5	7.1	4.7	4.7	2.4	2.4
165°	9.5	9.5	9.5	7.1	7.1	7.1	4.7	2.4	2.4	2.4	2.4
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2250.0	2242.9	2252.4	2269.0	2271.3	2269.0	2264.2	2271.3	2280.8	2278.4	2261.8
5°	2245.2	2235.8	2245.2	2261.8	2261.8	2259.5	2257.1	2264.2	2273.7	2271.3	2257.1
7.5°	2231.0	2221.5	2231.0	2245.2	2247.6	2242.9	2242.9	2250.0	2259.5	2257.1	2245.2
10°	2212.1	2202.6	2207.3	2223.9	2228.6	2223.9	2223.9	2231.0	2242.9	2240.5	2226.3
12.5°	2183.6	2176.5	2181.2	2195.5	2200.2	2197.8	2195.5	2204.9	2216.8	2216.8	2202.6
15°	2152.8	2143.3	2148.0	2164.6	2167.0	2162.3	2164.6	2171.7	2186.0	2186.0	2174.1
17.5°	2117.2	2105.4	2112.5	2124.3	2126.7	2126.7	2126.7	2136.2	2152.8	2150.4	2140.9
20°	2076.9	2060.3	2065.1	2076.9	2081.7	2081.7	2081.7	2098.2	2110.1	2110.1	2100.6
22.5°	2029.5	2017.6	2017.6	2029.5	2036.6	2034.2	2034.2	2048.5	2065.1	2062.7	2062.7
25°	1975.0	1965.5	1960.7	1975.0	1977.3	1979.7	1984.4	1998.7	2017.6	2017.6	2020.0
27.5°	1918.1	1908.6	1906.2	1918.1	1920.4	1922.8	1927.5	1944.1	1963.1	1965.5	1970.2
30°	1863.5	1849.3	1844.6	1854.0	1858.8	1861.2	1861.2	1887.2	1903.8	1910.9	1920.4
32.5°	1799.5	1785.3	1773.4	1790.0	1792.4	1797.1	1799.5	1825.6	1844.6	1856.4	1870.6
35°	1735.5	1711.8	1707.1	1718.9	1723.6	1726.0	1730.8	1759.2	1785.3	1794.8	1813.7
37.5°	1664.4	1647.8	1633.6	1645.4	1650.1	1652.5	1666.7	1692.8	1718.9	1733.1	1752.1
40°	1598.0	1576.7	1564.8	1571.9	1576.7	1579.0	1595.6	1624.1	1654.9	1671.5	1695.2
42.5°	1524.5	1496.0	1486.6	1493.7	1496.0	1503.2	1517.4	1555.3	1586.1	1609.8	1628.8
45°	1451.0	1429.7	1408.3	1415.4	1417.8	1422.5	1443.9	1484.2	1517.4	1545.8	1567.2
47.5°	1375.1	1349.0	1327.7	1332.4	1341.9	1344.3	1368.0	1415.4	1446.3	1477.1	1505.5
50°	1299.3	1263.7	1247.1	1247.1	1251.8	1263.7	1294.5	1341.9	1375.1	1410.7	1441.5
52.5°	1221.0	1187.8	1168.9	1171.2	1176.0	1190.2	1218.6	1266.1	1304.0	1341.9	1379.9
55°	1142.8	1107.2	1088.2	1083.5	1088.2	1107.2	1140.4	1190.2	1228.1	1273.2	1313.5
57.5°	1064.5	1021.9	1005.3	998.2	1002.9	1026.6	1059.8	1112.0	1159.4	1202.0	1249.5
60°	979.2	946.0	917.5	900.9	912.8	943.6	979.2	1033.7	1083.5	1130.9	1183.1
62.5°	905.7	863.0	832.2	815.6	827.4	853.5	903.3	955.5	1010.0	1064.5	1116.7
65°	822.7	780.0	744.5	727.9	739.7	770.5	820.3	877.2	936.5	991.0	1052.7
67.5°	742.1	697.0	654.4	637.8	652.0	685.2	739.7	803.7	867.8	924.7	991.0
70°	663.9	614.1	569.0	557.2	566.6	611.7	663.9	727.9	794.3	860.6	929.4
72.5°	592.7	531.1	483.7	469.4	481.3	531.1	590.4	656.7	727.9	799.0	872.5
75°	509.7	452.8	400.7	384.1	398.3	443.4	516.9	588.0	663.9	739.7	808.5
77.5°	443.4	377.0	322.4	296.4	320.1	377.0	448.1	524.0	602.2	680.4	758.7
80°	374.6	305.8	246.6	218.1	244.2	305.8	377.0	460.0	547.7	625.9	697.0
82.5°	313.0	239.5	177.8	147.0	175.4	244.2	322.4	405.4	490.8	569.0	652.0
85°	256.1	180.2	116.2	83.0	123.3	184.9	267.9	353.3	441.0	521.6	602.2
87.5°	208.6	135.1	71.1	35.6	75.9	144.6	222.9	308.2	395.9	476.6	552.4
90°	170.7	97.2	37.9	4.7	45.0	109.1	184.9	267.9	350.9	433.9	509.7
92.5°	139.9	73.5	21.3	2.4	28.5	87.7	158.9	237.1	317.7	398.3	471.8
95°	116.2	56.9	14.2	2.4	21.3	68.8	135.1	211.0	286.9	365.1	438.6
97.5°	99.6	47.4	11.9	2.4	16.6	59.3	116.2	187.3	260.8	334.3	405.4
100°	85.4	37.9	9.5	2.4	14.2	49.8	101.9	166.0	234.7	305.8	374.6
102.5°	73.5	30.8	7.1	2.4	11.9	42.7	90.1	149.4	211.0	279.8	346.2
105°	64.0	26.1	7.1	2.4	9.5	37.9	80.6	132.8	194.4	256.1	320.1
107.5°	54.5	21.3	4.7	2.4	7.1	30.8	71.1	120.9	175.4	234.7	294.0
110°	47.4	19.0	4.7	2.4	7.1	28.5	61.6	109.1	158.9	213.4	270.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.3	14.2	4.7	2.4	4.7	23.7	54.5	97.2	144.6	194.4	248.9
115°	35.6	11.9	2.4	2.4	4.7	21.3	49.8	87.7	130.4	177.8	227.6
117.5°	28.5	9.5	2.4	2.4	2.4	16.6	42.7	78.2	118.5	163.6	208.6
120°	23.7	9.5	2.4	2.4	2.4	14.2	37.9	68.8	106.7	147.0	189.7
122.5°	21.3	7.1	2.4	2.4	2.4	11.9	33.2	61.6	94.8	132.8	173.1
125°	19.0	7.1	2.4	2.4	2.4	9.5	28.5	54.5	85.4	118.5	156.5
127.5°	14.2	7.1	2.4	2.4	2.4	7.1	26.1	47.4	75.9	106.7	139.9
130°	11.9	4.7	2.4	2.4	2.4	7.1	21.3	42.7	66.4	94.8	125.7
132.5°	9.5	4.7	2.4	2.4	2.4	4.7	16.6	33.2	56.9	83.0	111.4
135°	9.5	4.7	2.4	2.4	2.4	4.7	11.9	28.5	47.4	71.1	94.8
137.5°	9.5	2.4	2.4	2.4	2.4	4.7	9.5	21.3	37.9	56.9	78.2
140°	7.1	2.4	2.4	2.4	2.4	2.4	7.1	16.6	30.8	47.4	66.4
142.5°	7.1	2.4	2.4	2.4	2.4	2.4	7.1	11.9	23.7	37.9	52.2
145°	4.7	2.4	2.4	2.4	2.4	2.4	4.7	9.5	19.0	28.5	42.7
147.5°	4.7	2.4	2.4	2.4	2.4	2.4	4.7	7.1	14.2	23.7	33.2
150°	4.7	2.4	2.4	2.4	2.4	2.4	4.7	7.1	9.5	16.6	26.1
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	4.7	4.7	7.1	11.9	16.6
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.7	7.1	9.5	11.9
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.7	4.7	7.1	9.5
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.7	4.7	7.1
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.7	4.7
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2254.7	2238.1	2242.9	2240.5	2245.2	2252.4	2252.4	2250.0	2250.0	2245.2	2240.5
5°	2250.0	2233.4	2240.5	2238.1	2242.9	2250.0	2250.0	2247.6	2247.6	2240.5	2238.1
7.5°	2235.8	2223.9	2228.6	2228.6	2233.4	2240.5	2240.5	2238.1	2238.1	2231.0	2228.6
10°	2221.5	2207.3	2214.4	2214.4	2219.2	2228.6	2228.6	2226.3	2226.3	2219.2	2216.8
12.5°	2197.8	2183.6	2195.5	2197.8	2202.6	2212.1	2209.7	2209.7	2209.7	2202.6	2200.2
15°	2169.4	2159.9	2171.7	2174.1	2181.2	2193.1	2193.1	2193.1	2193.1	2186.0	2183.6
17.5°	2138.6	2131.4	2143.3	2148.0	2157.5	2169.4	2169.4	2171.7	2174.1	2169.4	2167.0
20°	2103.0	2098.2	2110.1	2119.6	2133.8	2145.7	2150.4	2152.8	2157.5	2152.8	2150.4
22.5°	2062.7	2062.7	2079.3	2088.8	2105.4	2117.2	2124.3	2131.4	2136.2	2131.4	2129.1
25°	2017.6	2024.8	2041.3	2057.9	2076.9	2088.8	2095.9	2105.4	2110.1	2107.7	2105.4
27.5°	1975.0	1984.4	2005.8	2022.4	2039.0	2057.9	2065.1	2076.9	2081.7	2081.7	2079.3
30°	1925.2	1939.4	1963.1	1982.1	2003.4	2022.4	2031.9	2043.7	2050.8	2046.1	2048.5
32.5°	1877.8	1901.5	1920.4	1941.8	1965.5	1984.4	1996.3	2010.5	2017.6	2015.3	2017.6
35°	1825.6	1849.3	1875.4	1896.7	1925.2	1944.1	1960.7	1972.6	1982.1	1979.7	1979.7
37.5°	1768.7	1799.5	1825.6	1854.0	1880.1	1901.5	1918.1	1932.3	1941.8	1941.8	1941.8
40°	1714.2	1747.4	1773.4	1806.6	1839.8	1858.8	1877.8	1892.0	1901.5	1903.8	1906.2
42.5°	1654.9	1690.5	1721.3	1756.8	1790.0	1813.7	1835.1	1851.7	1861.2	1865.9	1863.5
45°	1600.4	1633.6	1669.1	1709.4	1740.2	1764.0	1790.0	1809.0	1818.5	1820.9	1823.2
47.5°	1538.7	1576.7	1617.0	1657.3	1688.1	1718.9	1742.6	1761.6	1771.1	1778.2	1778.2
50°	1479.4	1519.7	1564.8	1607.5	1640.7	1671.5	1695.2	1716.5	1728.4	1733.1	1735.5
52.5°	1424.9	1462.8	1510.3	1552.9	1586.1	1617.0	1647.8	1671.5	1683.3	1688.1	1688.1
55°	1358.5	1405.9	1458.1	1498.4	1534.0	1569.5	1600.4	1624.1	1635.9	1643.0	1647.8
57.5°	1296.9	1346.7	1401.2	1443.9	1486.6	1519.7	1548.2	1579.0	1588.5	1598.0	1600.4
60°	1237.6	1287.4	1339.6	1387.0	1429.7	1465.2	1498.4	1524.5	1541.1	1545.8	1550.6
62.5°	1176.0	1228.1	1282.7	1330.1	1375.1	1417.8	1448.6	1472.3	1491.3	1498.4	1503.2
65°	1116.7	1171.2	1225.8	1275.5	1323.0	1365.6	1396.5	1420.2	1439.1	1451.0	1453.4
67.5°	1052.7	1112.0	1168.9	1221.0	1268.4	1313.5	1344.3	1368.0	1387.0	1401.2	1403.6
70°	993.4	1055.1	1112.0	1168.9	1216.3	1261.3	1294.5	1318.2	1339.6	1349.0	1353.8
72.5°	936.5	1000.5	1059.8	1116.7	1164.1	1209.2	1244.7	1268.4	1289.8	1301.6	1304.0
75°	882.0	946.0	1010.0	1064.5	1114.3	1159.4	1194.9	1221.0	1240.0	1251.8	1256.6
77.5°	827.4	893.8	957.8	1012.4	1064.5	1109.6	1140.4	1171.2	1190.2	1204.4	1204.4
80°	772.9	841.7	908.1	962.6	1014.7	1055.1	1090.6	1121.4	1140.4	1154.6	1154.6
82.5°	725.5	791.9	855.9	910.4	962.6	1007.6	1043.2	1071.6	1093.0	1102.5	1104.8
85°	671.0	744.5	803.7	863.0	912.8	955.5	991.0	1021.9	1040.8	1050.3	1055.1
87.5°	625.9	697.0	761.1	813.2	863.0	905.7	946.0	972.1	991.0	1002.9	1007.6
90°	583.2	652.0	716.0	768.2	820.3	860.6	898.6	924.7	946.0	955.5	960.2
92.5°	545.3	614.1	675.7	727.9	777.7	822.7	858.3	884.3	903.3	912.8	919.9
95°	509.7	576.1	635.4	692.3	739.7	780.0	818.0	844.0	865.4	872.5	879.6
97.5°	474.2	538.2	597.5	652.0	701.8	739.7	775.3	801.4	818.0	829.8	836.9
100°	443.4	505.0	561.9	614.1	661.5	697.0	735.0	758.7	775.3	784.8	794.3
102.5°	410.2	471.8	526.3	576.1	625.9	659.1	694.7	718.4	732.6	749.2	749.2
105°	381.7	438.6	493.1	540.6	583.2	623.5	654.4	678.1	694.7	706.5	706.5
107.5°	350.9	407.8	460.0	509.7	550.0	588.0	616.4	637.8	656.7	663.9	671.0
110°	327.2	377.0	429.1	476.6	514.5	550.0	578.5	602.2	618.8	625.9	630.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	298.7	350.9	398.3	443.4	481.3	514.5	542.9	561.9	578.5	588.0	590.4
115°	275.0	324.8	367.5	410.2	450.5	478.9	505.0	524.0	540.6	547.7	552.4
117.5°	253.7	298.7	341.4	377.0	414.9	445.7	471.8	488.4	502.6	512.1	516.9
120°	232.3	275.0	313.0	348.5	384.1	412.5	436.2	452.8	469.4	476.6	476.6
122.5°	211.0	251.3	286.9	320.1	353.3	379.3	405.4	419.6	433.9	441.0	441.0
125°	192.0	230.0	263.2	294.0	324.8	348.5	369.9	386.5	400.7	405.4	405.4
127.5°	173.1	208.6	239.5	267.9	294.0	317.7	339.0	355.6	367.5	372.2	372.2
130°	156.5	187.3	215.8	244.2	270.3	289.3	310.6	324.8	331.9	339.0	341.4
132.5°	139.9	168.3	194.4	218.1	244.2	263.2	279.8	294.0	301.1	308.2	310.6
135°	123.3	149.4	173.1	196.8	218.1	237.1	251.3	263.2	272.7	277.4	279.8
137.5°	104.3	132.8	154.1	173.1	196.8	211.0	227.6	234.7	244.2	248.9	248.9
140°	87.7	109.1	132.8	151.7	170.7	184.9	199.2	211.0	218.1	220.5	220.5
142.5°	71.1	90.1	109.1	132.8	149.4	161.2	175.4	184.9	189.7	192.0	194.4
145°	56.9	71.1	87.7	109.1	128.0	142.3	149.4	158.9	163.6	166.0	168.3
147.5°	42.7	56.9	71.1	85.4	104.3	118.5	125.7	135.1	139.9	142.3	142.3
150°	33.2	42.7	52.2	66.4	80.6	97.2	106.7	113.8	116.2	118.5	118.5
152.5°	23.7	33.2	40.3	49.8	59.3	73.5	87.7	92.5	94.8	97.2	97.2
155°	16.6	23.7	28.5	35.6	42.7	54.5	66.4	73.5	75.9	78.2	78.2
157.5°	11.9	16.6	19.0	26.1	30.8	35.6	45.0	56.9	59.3	59.3	59.3
160°	7.1	9.5	11.9	16.6	19.0	23.7	28.5	35.6	42.7	42.7	42.7
162.5°	4.7	7.1	7.1	9.5	9.5	14.2	16.6	19.0	26.1	28.5	28.5
165°	2.4	4.7	4.7	4.7	4.7	4.7	7.1	7.1	11.9	14.2	14.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2242.9	2247.6	2245.2	2245.2	2245.2	2250.0	2245.2	2223.9	2228.6	2233.4	2238.1
5°	2240.5	2242.9	2242.9	2240.5	2240.5	2245.2	2240.5	2219.2	2223.9	2228.6	2231.0
7.5°	2231.0	2233.4	2233.4	2233.4	2231.0	2235.8	2228.6	2209.7	2209.7	2214.4	2216.8
10°	2219.2	2223.9	2221.5	2219.2	2219.2	2219.2	2214.4	2193.1	2193.1	2195.5	2197.8
12.5°	2204.9	2204.9	2204.9	2202.6	2200.2	2200.2	2195.5	2174.1	2171.7	2176.5	2174.1
15°	2186.0	2190.7	2186.0	2183.6	2178.9	2178.9	2171.7	2150.4	2145.7	2148.0	2145.7
17.5°	2169.4	2171.7	2167.0	2162.3	2157.5	2155.2	2148.0	2124.3	2117.2	2119.6	2114.8
20°	2152.8	2152.8	2148.0	2143.3	2136.2	2129.1	2119.6	2095.9	2084.0	2084.0	2074.5
22.5°	2131.4	2131.4	2126.7	2119.6	2112.5	2103.0	2093.5	2069.8	2050.8	2046.1	2039.0
25°	2107.7	2105.4	2103.0	2095.9	2081.7	2072.2	2062.7	2036.6	2015.3	2005.8	1993.9
27.5°	2079.3	2079.3	2072.2	2065.1	2050.8	2039.0	2027.1	2003.4	1975.0	1963.1	1946.5
30°	2048.5	2048.5	2041.3	2031.9	2017.6	2003.4	1989.2	1960.7	1932.3	1915.7	1896.7
32.5°	2017.6	2015.3	2008.2	1998.7	1984.4	1963.1	1951.3	1922.8	1889.6	1870.6	1844.6
35°	1979.7	1977.3	1970.2	1958.4	1939.4	1922.8	1903.8	1877.8	1839.8	1816.1	1787.7
37.5°	1941.8	1939.4	1934.7	1918.1	1899.1	1880.1	1856.4	1830.3	1794.8	1764.0	1735.5
40°	1903.8	1901.5	1892.0	1880.1	1856.4	1832.7	1809.0	1782.9	1745.0	1709.4	1678.6
42.5°	1863.5	1861.2	1849.3	1835.1	1809.0	1785.3	1756.8	1728.4	1690.5	1647.8	1617.0
45°	1823.2	1818.5	1806.6	1790.0	1761.6	1735.5	1707.1	1673.9	1635.9	1595.6	1555.3
47.5°	1780.5	1773.4	1761.6	1737.9	1714.2	1685.7	1652.5	1617.0	1579.0	1534.0	1491.3
50°	1733.1	1728.4	1714.2	1692.8	1664.4	1635.9	1598.0	1562.4	1517.4	1474.7	1422.5
52.5°	1688.1	1678.6	1666.7	1643.0	1614.6	1583.8	1543.5	1500.8	1455.7	1415.4	1360.9
55°	1640.7	1635.9	1619.3	1600.4	1564.8	1529.2	1491.3	1446.3	1396.5	1349.0	1296.9
57.5°	1595.6	1586.1	1571.9	1545.8	1515.0	1479.4	1439.1	1391.7	1337.2	1287.4	1230.5
60°	1550.6	1536.3	1519.7	1496.0	1462.8	1424.9	1382.2	1332.4	1277.9	1223.4	1164.1
62.5°	1500.8	1488.9	1470.0	1446.3	1413.1	1372.8	1327.7	1275.5	1223.4	1166.5	1102.5
65°	1451.0	1439.1	1420.2	1396.5	1363.3	1318.2	1270.8	1218.6	1159.4	1104.8	1036.1
67.5°	1401.2	1389.3	1368.0	1341.9	1308.7	1266.1	1216.3	1161.7	1102.5	1043.2	972.1
70°	1351.4	1337.2	1318.2	1289.8	1256.6	1211.5	1161.7	1104.8	1045.6	981.6	910.4
72.5°	1301.6	1289.8	1266.1	1240.0	1204.4	1159.4	1109.6	1052.7	991.0	924.7	853.5
75°	1251.8	1237.6	1221.0	1190.2	1152.3	1109.6	1057.4	1000.5	934.1	870.1	796.6
77.5°	1202.0	1190.2	1168.9	1138.0	1102.5	1057.4	1005.3	948.4	882.0	815.6	737.4
80°	1152.3	1138.0	1121.4	1093.0	1052.7	1007.6	953.1	896.2	829.8	761.1	682.8
82.5°	1102.5	1088.2	1069.3	1040.8	1002.9	957.8	905.7	844.0	777.7	706.5	633.0
85°	1052.7	1040.8	1019.5	991.0	950.7	905.7	853.5	799.0	727.9	656.7	583.2
87.5°	1002.9	991.0	969.7	941.2	903.3	858.3	806.1	749.2	680.4	614.1	533.5
90°	955.5	946.0	924.7	896.2	858.3	813.2	765.8	704.2	637.8	571.4	495.5
92.5°	912.8	903.3	884.3	855.9	822.7	772.9	725.5	666.2	599.8	531.1	457.6
95°	874.9	863.0	844.0	818.0	777.7	735.0	687.6	628.3	564.3	495.5	424.4
97.5°	832.2	820.3	801.4	772.9	739.7	694.7	647.3	590.4	526.3	462.3	391.2
100°	789.5	777.7	756.3	732.6	699.4	654.4	609.3	552.4	493.1	431.5	362.7
102.5°	746.8	735.0	716.0	692.3	659.1	618.8	573.8	519.2	460.0	398.3	334.3
105°	706.5	694.7	675.7	652.0	621.2	580.9	533.5	486.0	429.1	369.9	308.2
107.5°	666.2	654.4	637.8	614.1	583.2	545.3	500.3	450.5	398.3	341.4	282.1
110°	625.9	616.4	597.5	576.1	545.3	507.4	467.1	419.6	367.5	315.3	258.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	588.0	578.5	559.5	535.8	509.7	474.2	433.9	388.8	339.0	289.3	234.7
115°	550.0	538.2	521.6	500.3	474.2	441.0	403.1	362.7	313.0	265.5	215.8
117.5°	512.1	502.6	486.0	464.7	441.0	407.8	372.2	334.3	286.9	241.8	196.8
120°	474.2	467.1	450.5	431.5	407.8	377.0	343.8	305.8	263.2	220.5	177.8
122.5°	438.6	431.5	414.9	398.3	374.6	346.2	315.3	279.8	241.8	201.5	163.6
125°	405.4	395.9	381.7	365.1	343.8	317.7	286.9	253.7	218.1	182.6	147.0
127.5°	369.9	362.7	353.3	334.3	313.0	289.3	260.8	232.3	199.2	166.0	132.8
130°	341.4	331.9	320.1	305.8	286.9	263.2	237.1	208.6	180.2	149.4	116.2
132.5°	308.2	298.7	289.3	275.0	258.4	237.1	213.4	187.3	161.2	132.8	104.3
135°	277.4	270.3	260.8	246.6	230.0	213.4	189.7	166.0	142.3	116.2	92.5
137.5°	248.9	241.8	232.3	222.9	206.3	189.7	168.3	147.0	125.7	101.9	80.6
140°	220.5	215.8	206.3	196.8	182.6	166.0	147.0	128.0	109.1	87.7	68.8
142.5°	192.0	187.3	180.2	170.7	158.9	144.6	128.0	111.4	92.5	75.9	59.3
145°	166.0	163.6	156.5	147.0	137.5	123.3	109.1	94.8	78.2	64.0	47.4
147.5°	139.9	137.5	132.8	125.7	116.2	104.3	92.5	78.2	66.4	52.2	37.9
150°	116.2	113.8	111.4	101.9	97.2	85.4	75.9	64.0	54.5	40.3	30.8
152.5°	94.8	94.8	90.1	83.0	78.2	68.8	61.6	52.2	42.7	33.2	23.7
155°	75.9	73.5	71.1	66.4	61.6	54.5	47.4	40.3	33.2	23.7	16.6
157.5°	59.3	56.9	54.5	49.8	45.0	42.7	35.6	28.5	21.3	16.6	11.9
160°	42.7	40.3	37.9	35.6	33.2	28.5	23.7	19.0	14.2	9.5	7.1
162.5°	28.5	26.1	26.1	23.7	21.3	16.6	14.2	11.9	9.5	7.1	4.7
165°	14.2	14.2	11.9	11.9	9.5	7.1	7.1	7.1	4.7	4.7	2.4
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2235.8	2235.8	2245.2	2242.9	2235.8	2250.0	2266.6
5°	2228.6	2228.6	2235.8	2235.8	2228.6	2242.9	2257.1
7.5°	2216.8	2214.4	2221.5	2221.5	2212.1	2223.9	2240.5
10°	2195.5	2193.1	2200.2	2200.2	2190.7	2202.6	2216.8
12.5°	2171.7	2167.0	2174.1	2171.7	2162.3	2174.1	2188.3
15°	2140.9	2138.6	2143.3	2138.6	2129.1	2140.9	2155.2
17.5°	2110.1	2103.0	2105.4	2105.4	2088.8	2100.6	2112.5
20°	2069.8	2060.3	2062.7	2060.3	2048.5	2055.6	2069.8
22.5°	2029.5	2015.3	2015.3	2012.9	1998.7	2008.2	2020.0
25°	1979.7	1963.1	1963.1	1960.7	1944.1	1951.3	1963.1
27.5°	1929.9	1913.3	1906.2	1903.8	1887.2	1887.2	1903.8
30°	1877.8	1854.0	1849.3	1842.2	1825.6	1825.6	1839.8
32.5°	1828.0	1794.8	1785.3	1775.8	1759.2	1756.8	1773.4
35°	1761.6	1735.5	1718.9	1709.4	1690.5	1685.7	1699.9
37.5°	1707.1	1673.9	1650.1	1638.3	1619.3	1612.2	1631.2
40°	1647.8	1612.2	1581.4	1574.3	1545.8	1536.3	1552.9
42.5°	1581.4	1543.5	1512.6	1498.4	1477.1	1467.6	1470.0
45°	1515.0	1474.7	1441.5	1422.5	1401.2	1384.6	1394.1
47.5°	1446.3	1410.7	1370.4	1341.9	1315.9	1304.0	1308.7
50°	1377.5	1334.8	1296.9	1266.1	1235.2	1221.0	1230.5
52.5°	1308.7	1263.7	1221.0	1187.8	1152.3	1138.0	1140.4
55°	1242.4	1194.9	1145.1	1109.6	1076.4	1055.1	1050.3
57.5°	1176.0	1123.8	1071.6	1031.3	988.7	969.7	962.6
60°	1104.8	1050.3	995.8	948.4	903.3	882.0	872.5
62.5°	1038.5	979.2	917.5	867.8	822.7	794.3	787.1
65°	974.4	905.7	844.0	787.1	737.4	706.5	697.0
67.5°	905.7	834.6	768.2	706.5	659.1	618.8	614.1
70°	841.7	765.8	692.3	628.3	576.1	535.8	516.9
72.5°	777.7	699.4	623.5	554.8	488.4	450.5	436.2
75°	716.0	635.4	554.8	483.7	410.2	365.1	350.9
77.5°	659.1	576.1	490.8	412.5	343.8	286.9	267.9
80°	604.6	519.2	429.1	348.5	275.0	213.4	192.0
82.5°	547.7	467.1	374.6	289.3	213.4	149.4	123.3
85°	497.9	417.3	324.8	239.5	163.6	94.8	66.4
87.5°	457.6	369.9	286.9	201.5	123.3	54.5	19.0
90°	417.3	331.9	248.9	166.0	92.5	30.8	2.4
92.5°	381.7	301.1	218.1	142.3	71.1	21.3	2.4
95°	348.5	270.3	192.0	118.5	56.9	14.2	2.4
97.5°	317.7	244.2	170.7	101.9	47.4	11.9	2.4
100°	291.6	220.5	151.7	90.1	40.3	9.5	2.4
102.5°	265.5	199.2	135.1	78.2	35.6	7.1	2.4
105°	244.2	180.2	120.9	71.1	30.8	7.1	2.4
107.5°	222.9	163.6	109.1	61.6	26.1	4.7	2.4
110°	201.5	149.4	97.2	54.5	23.7	4.7	2.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	184.9	135.1	87.7	49.8	19.0	4.7	2.4
115°	168.3	120.9	78.2	42.7	16.6	2.4	2.4
117.5°	151.7	109.1	68.8	37.9	14.2	2.4	2.4
120°	137.5	97.2	61.6	33.2	11.9	2.4	2.4
122.5°	123.3	87.7	54.5	28.5	9.5	2.4	2.4
125°	111.4	78.2	47.4	23.7	7.1	2.4	2.4
127.5°	99.6	68.8	42.7	21.3	7.1	2.4	2.4
130°	87.7	61.6	35.6	16.6	4.7	2.4	2.4
132.5°	78.2	52.2	30.8	14.2	4.7	2.4	2.4
135°	68.8	45.0	26.1	9.5	4.7	2.4	2.4
137.5°	59.3	37.9	21.3	7.1	2.4	2.4	2.4
140°	49.8	33.2	16.6	7.1	2.4	2.4	2.4
142.5°	42.7	26.1	11.9	4.7	2.4	2.4	2.4
145°	33.2	21.3	9.5	4.7	2.4	2.4	2.4
147.5°	26.1	16.6	7.1	4.7	2.4	2.4	2.4
150°	19.0	11.9	7.1	2.4	2.4	2.4	2.4
152.5°	14.2	9.5	4.7	2.4	2.4	2.4	2.4
155°	9.5	7.1	4.7	2.4	2.4	2.4	2.4
157.5°	7.1	4.7	2.4	2.4	2.4	2.4	2.4
160°	4.7	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)