

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

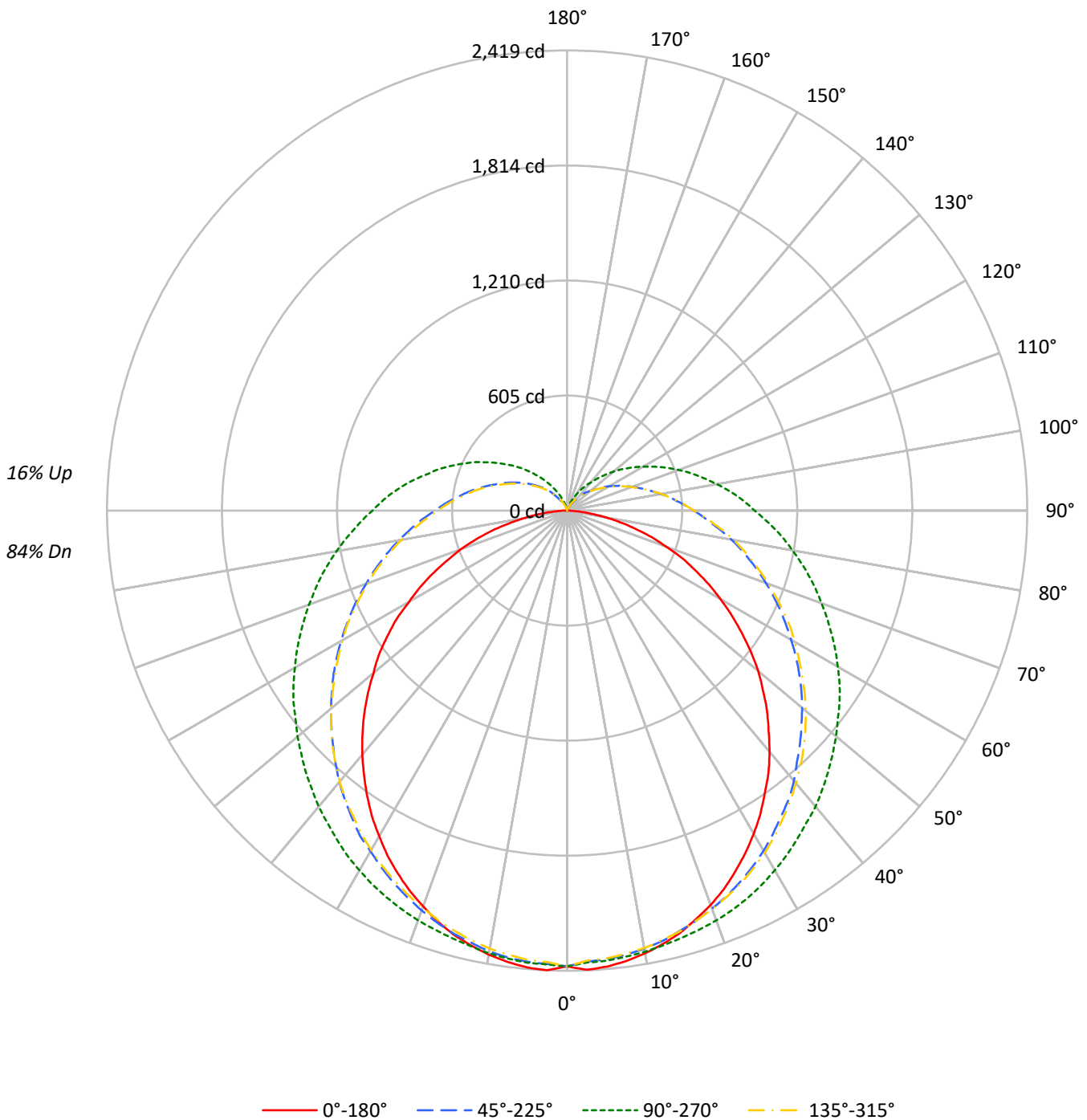
Lumens per Lamp: N/A
Luminaire Lumens: 10409.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

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



TEST NUMBER: P#
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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	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°	9680	9680	9680	9680
5°	9745	9329	9766	9369
10°	9668	9064	9699	9093
15°	9570	8837	9612	8847
20°	9433	8671	9466	8671
25°	9262	8524	9318	8515
30°	9068	8373	9138	8373
35°	8841	8233	8940	8243
40°	8618	8150	8724	8150
45°	8361	8064	8489	8074
50°	8095	8012	8203	8035
55°	7715	8020	7959	8055
60°	7317	8044	7557	8094
65°	6873	8125	7178	8206
70°	6240	8275	6727	8393
75°	5517	8545	6039	8709
80°	4375	8946	4970	9153
85°	2785	9589	3481	9855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	2.2
10°-20°	652.3	6.3
20°-30°	1000.1	9.6
30°-40°	1233.8	11.9
40°-50°	1338.6	12.9
50°-60°	1319.3	12.7
60°-70°	1192.8	11.5
70°-80°	993.7	9.5
80°-90°	769.7	7.4
90°-100°	583.7	5.6
100°-110°	432.0	4.2
110°-120°	300.5	2.9
120°-130°	191.7	1.8
130°-140°	107.6	1.0
140°-150°	49.1	0.5
150°-160°	15.2	0.1
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1879.3	18.1
0°-40°	3113.1	29.9
0°-60°	5771.0	55.4
0°-90°	8727.3	83.8
90°-120°	1316.2	12.6
90°-150°	1664.6	16.0
90°-180°	1682.0	16.2
0°-180°	10409.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2396	2396	2396	2396	2396	
5°	2406	2376	2411	2386	2406	228
15°	2297	2325	2307	2328	2297	647
25°	2093	2247	2105	2244	2093	964
35°	1812	2108	1832	2110	1812	1135
45°	1486	1941	1509	1944	1486	1145
55°	1120	1749	1155	1756	1120	1002
65°	743	1534	776	1549	743	736
75°	374	1314	409	1339	374	396
85°	71	1094	88	1125	71	86
90°	2	986	5	1024	2	4
95°	2	895	2	938	2	2
105°	2	710	2	753	2	3
115°	2	541	2	589	2	2
125°	2	389	2	432	2	2
135°	2	253	2	298	2	2
145°	2	147	2	179	2	2
155°	2	61	2	83	2	1
165°	2	10	2	15	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-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2416.1	2416.1	2413.5	2408.5	2411.0	2418.6	2413.5	2400.9	2393.3	2373.1	2378.2
5°	2406.0	2406.0	2403.4	2398.4	2400.9	2411.0	2406.0	2395.8	2385.7	2368.0	2375.6
7.5°	2388.3	2388.3	2385.7	2380.7	2385.7	2395.8	2390.8	2380.7	2373.1	2355.4	2363.0
10°	2363.0	2365.5	2363.0	2355.4	2365.5	2375.6	2373.1	2360.5	2352.9	2337.7	2345.3
12.5°	2332.7	2335.2	2332.7	2330.1	2335.2	2350.4	2345.3	2335.2	2330.1	2317.5	2325.1
15°	2297.3	2299.8	2294.8	2294.8	2299.8	2315.0	2315.0	2304.9	2299.8	2287.2	2302.3
17.5°	2251.8	2254.3	2251.8	2251.8	2256.8	2272.0	2274.5	2269.5	2264.4	2259.4	2274.5
20°	2206.3	2203.8	2203.8	2201.2	2211.4	2234.1	2231.6	2231.6	2226.5	2226.5	2244.2
22.5°	2153.2	2153.2	2150.7	2150.7	2163.3	2183.6	2183.6	2188.6	2183.6	2193.7	2208.8
25°	2092.6	2095.1	2092.6	2097.6	2107.7	2130.5	2133.0	2140.6	2143.1	2153.2	2170.9
27.5°	2029.4	2031.9	2029.4	2034.4	2052.1	2069.8	2082.5	2092.6	2095.1	2110.3	2133.0
30°	1961.2	1961.2	1963.7	1968.7	1989.0	2016.8	2026.9	2039.5	2039.5	2064.8	2087.5
32.5°	1890.4	1890.4	1890.4	1900.5	1923.2	1956.1	1968.7	1983.9	1989.0	2014.2	2039.5
35°	1812.0	1814.6	1814.6	1822.2	1852.5	1885.3	1903.0	1920.7	1930.8	1961.2	1986.4
37.5°	1738.8	1743.8	1736.2	1746.3	1789.3	1817.1	1837.3	1855.0	1872.7	1913.1	1933.4
40°	1655.4	1660.4	1657.9	1678.1	1713.5	1748.9	1771.6	1789.3	1814.6	1855.0	1877.8
42.5°	1566.9	1572.0	1577.0	1599.8	1637.7	1673.0	1700.8	1723.6	1753.9	1789.3	1827.2
45°	1486.0	1486.0	1493.6	1521.4	1561.8	1599.8	1632.6	1657.9	1693.3	1731.2	1769.1
47.5°	1395.0	1397.6	1407.7	1440.5	1483.5	1529.0	1559.3	1592.2	1630.1	1670.5	1713.5
50°	1311.7	1311.7	1326.8	1362.2	1402.6	1453.2	1486.0	1523.9	1564.4	1612.4	1655.4
52.5°	1215.6	1220.7	1243.4	1276.3	1329.3	1374.8	1412.7	1453.2	1501.2	1551.7	1599.8
55°	1119.6	1129.7	1147.4	1192.9	1248.5	1291.4	1336.9	1387.5	1433.0	1488.6	1544.2
57.5°	1026.1	1033.7	1061.5	1106.9	1165.1	1218.1	1266.2	1314.2	1369.8	1425.4	1483.5
60°	930.0	940.1	973.0	1018.5	1081.7	1137.3	1192.9	1243.4	1301.5	1359.7	1420.3
62.5°	839.1	846.6	884.5	937.6	1000.8	1061.5	1117.1	1177.7	1240.9	1296.5	1357.1
65°	743.0	755.7	798.6	846.6	919.9	980.6	1043.8	1109.5	1175.2	1235.8	1294.0
67.5°	654.6	662.1	707.6	763.2	836.5	904.8	970.5	1041.2	1109.5	1172.7	1230.8
70°	550.9	576.2	621.7	679.8	758.2	828.9	899.7	973.0	1046.3	1112.0	1167.6
72.5°	465.0	485.2	535.8	599.0	674.8	758.2	831.5	909.8	983.1	1051.3	1109.5
75°	374.0	394.3	452.4	523.1	601.5	689.9	765.8	846.6	922.5	990.7	1051.3
77.5°	285.6	310.9	374.0	447.3	533.3	624.2	702.6	783.5	861.8	935.1	995.7
80°	204.7	232.5	300.7	384.1	467.5	558.5	644.5	725.3	803.7	877.0	940.1
82.5°	131.4	161.7	235.0	318.4	406.9	497.9	586.3	667.2	745.5	818.8	884.5
85°	70.8	103.6	179.4	262.8	351.3	442.3	530.7	616.7	692.5	760.7	831.5
87.5°	20.2	60.7	133.9	217.3	308.3	391.7	477.7	563.6	639.4	712.7	775.9
90°	2.5	35.4	101.1	179.4	267.9	348.8	434.7	515.6	591.4	664.7	727.9
92.5°	2.5	22.7	78.3	149.1	230.0	313.4	399.3	477.7	548.4	621.7	684.9
95°	2.5	17.7	63.2	126.4	202.2	280.5	361.4	437.2	510.5	578.7	641.9
97.5°	2.5	12.6	50.5	108.7	176.9	250.2	328.5	404.4	475.1	540.8	599.0
100°	2.5	10.1	40.4	93.5	154.2	224.9	295.7	369.0	437.2	500.4	561.1
102.5°	2.5	7.6	35.4	78.3	136.5	199.7	267.9	336.1	401.8	462.5	523.1
105°	2.5	7.6	30.3	68.2	121.3	179.4	242.6	308.3	369.0	427.1	482.7
107.5°	2.5	5.1	25.3	58.1	106.1	161.7	219.9	283.1	338.7	394.3	447.3
110°	2.5	5.1	20.2	53.1	93.5	144.1	199.7	257.8	310.9	363.9	414.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.5	5.1	17.7	45.5	80.9	128.9	179.4	232.5	283.1	336.1	381.6
115°	2.5	5.1	15.2	40.4	75.8	111.2	161.7	209.8	260.3	308.3	351.3
117.5°	2.5	5.1	12.6	32.9	65.7	101.1	141.5	189.5	235.0	280.5	321.0
120°	2.5	5.1	10.1	30.3	58.1	91.0	126.4	169.3	212.3	255.3	298.2
122.5°	2.5	2.5	10.1	25.3	50.5	80.9	116.3	149.1	189.5	230.0	267.9
125°	2.5	2.5	10.1	22.7	43.0	73.3	103.6	133.9	169.3	204.7	237.6
127.5°	2.5	2.5	7.6	17.7	37.9	63.2	91.0	123.8	149.1	182.0	214.8
130°	2.5	2.5	7.6	15.2	32.9	53.1	80.9	108.7	139.0	161.7	189.5
132.5°	2.5	2.5	7.6	12.6	25.3	43.0	68.2	93.5	121.3	146.6	169.3
135°	2.5	2.5	5.1	10.1	20.2	35.4	55.6	78.3	106.1	131.4	154.2
137.5°	2.5	2.5	5.1	10.1	15.2	30.3	43.0	63.2	88.5	111.2	133.9
140°	2.5	2.5	5.1	7.6	12.6	22.7	35.4	50.5	70.8	91.0	116.3
142.5°	2.5	2.5	2.5	7.6	10.1	17.7	27.8	40.4	55.6	73.3	93.5
145°	2.5	2.5	2.5	7.6	10.1	12.6	22.7	32.9	43.0	55.6	73.3
147.5°	2.5	2.5	2.5	5.1	7.6	10.1	17.7	25.3	32.9	43.0	53.1
150°	2.5	2.5	2.5	5.1	7.6	10.1	12.6	17.7	25.3	35.4	43.0
152.5°	2.5	2.5	2.5	5.1	5.1	7.6	10.1	12.6	17.7	25.3	30.3
155°	2.5	2.5	2.5	2.5	5.1	7.6	10.1	10.1	12.6	17.7	22.7
157.5°	2.5	2.5	2.5	2.5	5.1	5.1	7.6	7.6	10.1	10.1	15.2
160°	2.5	2.5	2.5	2.5	2.5	5.1	5.1	7.6	7.6	7.6	7.6
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	7.6	7.6
165°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1
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°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2378.2	2380.7	2388.3	2388.3	2383.2	2383.2	2380.7	2378.2	2380.7	2385.7	2385.7
5°	2373.1	2375.6	2383.2	2385.7	2380.7	2378.2	2378.2	2375.6	2378.2	2383.2	2383.2
7.5°	2363.0	2365.5	2373.1	2375.6	2370.6	2370.6	2368.0	2365.5	2370.6	2373.1	2373.1
10°	2347.8	2350.4	2360.5	2363.0	2360.5	2357.9	2357.9	2355.4	2357.9	2363.0	2363.0
12.5°	2327.6	2332.7	2345.3	2345.3	2345.3	2342.8	2342.8	2340.2	2342.8	2347.8	2345.3
15°	2304.9	2315.0	2325.1	2330.1	2330.1	2330.1	2327.6	2325.1	2330.1	2332.7	2330.1
17.5°	2279.6	2292.2	2307.4	2312.4	2312.4	2315.0	2312.4	2309.9	2315.0	2315.0	2312.4
20°	2254.3	2267.0	2282.1	2287.2	2292.2	2294.8	2294.8	2292.2	2294.8	2297.3	2294.8
22.5°	2221.5	2236.6	2254.3	2261.9	2267.0	2272.0	2272.0	2272.0	2274.5	2277.1	2272.0
25°	2186.1	2203.8	2224.0	2231.6	2241.7	2244.2	2246.7	2246.7	2249.3	2251.8	2244.2
27.5°	2148.2	2168.4	2188.6	2201.2	2208.8	2213.9	2213.9	2216.4	2218.9	2221.5	2213.9
30°	2102.7	2133.0	2150.7	2160.8	2170.9	2178.5	2181.0	2183.6	2186.1	2188.6	2181.0
32.5°	2062.2	2087.5	2110.3	2122.9	2135.5	2145.6	2148.2	2148.2	2153.2	2153.2	2145.6
35°	2014.2	2044.6	2067.3	2079.9	2095.1	2102.7	2107.7	2107.7	2112.8	2112.8	2105.2
37.5°	1966.2	1996.5	2021.8	2037.0	2054.7	2064.8	2067.3	2067.3	2072.4	2072.4	2062.2
40°	1915.7	1948.5	1976.3	1994.0	2009.2	2021.8	2024.3	2031.9	2031.9	2029.4	2019.3
42.5°	1865.1	1895.4	1925.8	1946.0	1966.2	1978.8	1983.9	1986.4	1986.4	1983.9	1976.3
45°	1809.5	1844.9	1872.7	1898.0	1918.2	1930.8	1938.4	1940.9	1940.9	1935.9	1928.3
47.5°	1756.4	1791.8	1819.6	1847.4	1867.6	1882.8	1890.4	1892.9	1890.4	1887.9	1880.3
50°	1700.8	1741.3	1769.1	1796.9	1817.1	1829.7	1842.4	1844.9	1842.4	1839.8	1824.7
52.5°	1642.7	1685.7	1716.0	1743.8	1766.6	1781.7	1791.8	1794.4	1794.4	1789.3	1779.2
55°	1584.6	1622.5	1660.4	1690.7	1716.0	1731.2	1743.8	1748.9	1743.8	1738.8	1726.1
57.5°	1531.5	1566.9	1604.8	1637.7	1662.9	1683.2	1693.3	1698.3	1693.3	1685.7	1673.0
60°	1468.3	1506.2	1549.2	1579.5	1607.3	1627.6	1632.6	1642.7	1637.7	1630.1	1617.4
62.5°	1407.7	1453.2	1491.1	1529.0	1551.7	1574.5	1584.6	1589.6	1584.6	1577.0	1564.4
65°	1344.5	1395.0	1433.0	1470.9	1496.1	1518.9	1531.5	1534.0	1529.0	1521.4	1508.8
67.5°	1286.4	1334.4	1374.8	1415.3	1438.0	1460.8	1473.4	1478.4	1473.4	1463.3	1450.6
70°	1228.3	1276.3	1324.3	1354.6	1382.4	1407.7	1415.3	1422.8	1417.8	1407.7	1392.5
72.5°	1170.1	1220.7	1268.7	1299.0	1329.3	1352.1	1362.2	1369.8	1364.7	1354.6	1336.9
75°	1109.5	1162.5	1210.6	1243.4	1273.7	1296.5	1306.6	1314.2	1309.1	1299.0	1278.8
77.5°	1053.9	1106.9	1152.4	1187.8	1218.1	1238.4	1256.1	1258.6	1253.5	1243.4	1223.2
80°	995.7	1048.8	1096.8	1132.2	1162.5	1182.8	1195.4	1203.0	1197.9	1187.8	1167.6
82.5°	945.2	993.2	1041.2	1076.6	1106.9	1132.2	1142.3	1149.9	1147.4	1132.2	1117.1
85°	889.6	945.2	983.1	1021.0	1051.3	1076.6	1084.2	1094.3	1091.8	1079.1	1058.9
87.5°	834.0	889.6	935.1	973.0	1000.8	1021.0	1033.7	1038.7	1036.2	1023.5	1000.8
90°	788.5	839.1	884.5	925.0	947.7	970.5	983.1	985.6	985.6	970.5	952.8
92.5°	745.5	793.6	839.1	877.0	904.8	925.0	935.1	940.1	937.6	925.0	904.8
95°	697.5	750.6	793.6	831.5	859.3	879.5	889.6	894.7	892.1	879.5	859.3
97.5°	657.1	705.1	748.1	783.5	811.3	831.5	841.6	846.6	846.6	834.0	813.8
100°	616.7	664.7	705.1	740.5	765.8	786.0	796.1	798.6	796.1	786.0	765.8
102.5°	576.2	621.7	662.1	695.0	722.8	740.5	750.6	753.1	753.1	740.5	720.3
105°	535.8	581.3	619.2	654.6	677.3	695.0	702.6	710.2	707.6	697.5	677.3
107.5°	497.9	543.4	578.7	611.6	634.3	652.0	659.6	667.2	664.7	654.6	634.3
110°	462.5	505.5	538.3	571.2	591.4	609.1	621.7	624.2	619.2	609.1	591.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.6	467.5	500.4	530.7	553.5	566.1	576.2	581.3	576.2	566.1	553.5
115°	394.3	432.2	465.0	492.8	513.0	528.2	535.8	540.8	535.8	525.7	513.0
117.5°	361.4	396.8	429.6	457.4	475.1	487.8	495.3	500.4	495.3	487.8	475.1
120°	333.6	363.9	394.3	419.5	439.7	449.9	457.4	462.5	460.0	449.9	437.2
122.5°	300.7	333.6	361.4	386.7	404.4	414.5	419.5	424.6	422.1	414.5	401.8
125°	272.9	300.7	328.5	351.3	369.0	379.1	384.1	389.2	386.7	379.1	363.9
127.5°	242.6	272.9	295.7	318.4	331.1	346.2	348.8	353.8	351.3	343.7	331.1
130°	219.9	242.6	265.4	285.6	300.7	310.9	315.9	318.4	313.4	308.3	295.7
132.5°	192.1	217.3	237.6	255.3	265.4	275.5	280.5	283.1	283.1	275.5	265.4
135°	171.9	189.5	207.2	224.9	235.0	245.1	250.2	252.7	250.2	245.1	235.0
137.5°	154.2	169.3	182.0	197.1	209.8	214.8	219.9	219.9	217.3	214.8	207.2
140°	133.9	151.6	164.3	174.4	184.5	187.0	192.1	192.1	189.5	187.0	182.0
142.5°	113.7	128.9	141.5	154.2	161.7	166.8	169.3	171.9	169.3	166.8	159.2
145°	91.0	108.7	121.3	128.9	139.0	141.5	144.1	146.6	144.1	141.5	133.9
147.5°	70.8	85.9	98.6	108.7	116.3	118.8	121.3	123.8	121.3	116.3	113.7
150°	50.5	63.2	78.3	88.5	93.5	98.6	98.6	98.6	101.1	96.0	91.0
152.5°	40.4	45.5	55.6	65.7	73.3	75.8	78.3	78.3	75.8	75.8	70.8
155°	27.8	32.9	40.4	48.0	55.6	58.1	60.7	60.7	58.1	58.1	55.6
157.5°	17.7	22.7	27.8	32.9	40.4	43.0	45.5	45.5	45.5	43.0	40.4
160°	10.1	12.6	15.2	20.2	25.3	27.8	30.3	30.3	30.3	30.3	27.8
162.5°	7.6	7.6	7.6	10.1	12.6	15.2	17.7	17.7	17.7	17.7	15.2
165°	5.1	5.1	5.1	5.1	5.1	7.6	10.1	10.1	10.1	10.1	10.1
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2383.2	2383.2	2385.7	2380.7	2365.5	2368.0	2368.0	2378.2	2383.2	2385.7	2398.4
5°	2378.2	2378.2	2383.2	2375.6	2363.0	2363.0	2363.0	2373.1	2375.6	2380.7	2390.8
7.5°	2370.6	2370.6	2373.1	2365.5	2350.4	2350.4	2347.8	2357.9	2363.0	2365.5	2375.6
10°	2357.9	2357.9	2360.5	2352.9	2335.2	2335.2	2332.7	2340.2	2342.8	2347.8	2355.4
12.5°	2340.2	2340.2	2340.2	2332.7	2315.0	2312.4	2309.9	2317.5	2317.5	2320.0	2327.6
15°	2325.1	2320.0	2320.0	2312.4	2294.8	2289.7	2284.6	2287.2	2292.2	2289.7	2294.8
17.5°	2307.4	2302.3	2297.3	2289.7	2267.0	2259.4	2254.3	2256.8	2254.3	2251.8	2256.8
20°	2287.2	2279.6	2277.1	2264.4	2241.7	2229.0	2218.9	2213.9	2216.4	2208.8	2211.4
22.5°	2264.4	2254.3	2249.3	2234.1	2211.4	2196.2	2183.6	2173.4	2170.9	2160.8	2163.3
25°	2236.6	2224.0	2216.4	2203.8	2178.5	2160.8	2145.6	2130.5	2122.9	2110.3	2107.7
27.5°	2203.8	2191.1	2181.0	2168.4	2143.1	2120.4	2102.7	2082.5	2072.4	2057.2	2049.6
30°	2170.9	2155.8	2140.6	2130.5	2102.7	2077.4	2049.6	2031.9	2016.8	1999.1	1986.4
32.5°	2130.5	2115.3	2100.2	2085.0	2059.7	2029.4	2006.6	1978.8	1961.2	1940.9	1925.8
35°	2090.0	2069.8	2054.7	2034.4	2011.7	1976.3	1948.5	1920.7	1898.0	1875.2	1857.5
37.5°	2044.6	2029.4	2006.6	1989.0	1961.2	1925.8	1895.4	1860.1	1839.8	1809.5	1786.8
40°	2001.6	1983.9	1961.2	1938.4	1910.6	1870.2	1837.3	1796.9	1774.1	1738.8	1716.0
42.5°	1958.6	1933.4	1910.6	1885.3	1855.0	1817.1	1776.7	1736.2	1705.9	1673.0	1640.2
45°	1910.6	1882.8	1855.0	1827.2	1796.9	1759.0	1716.0	1673.0	1635.1	1604.8	1564.4
47.5°	1860.1	1832.3	1799.4	1769.1	1736.2	1698.3	1652.8	1607.3	1566.9	1531.5	1488.6
50°	1809.5	1781.7	1746.3	1713.5	1675.6	1637.7	1589.6	1536.6	1493.6	1448.1	1410.2
52.5°	1756.4	1728.6	1695.8	1652.8	1612.4	1574.5	1523.9	1468.3	1420.3	1382.4	1334.4
55°	1703.4	1675.6	1637.7	1594.7	1554.3	1506.2	1458.2	1402.6	1349.6	1304.1	1256.1
57.5°	1647.8	1622.5	1579.5	1544.2	1493.6	1443.1	1392.5	1339.4	1281.3	1228.3	1172.7
60°	1592.2	1564.4	1523.9	1481.0	1430.4	1379.9	1326.8	1268.7	1208.0	1149.9	1099.4
62.5°	1541.6	1506.2	1468.3	1422.8	1369.8	1321.8	1261.1	1197.9	1137.3	1076.6	1016.0
65°	1483.5	1445.6	1410.2	1364.7	1309.1	1253.5	1192.9	1129.7	1064.0	998.3	937.6
67.5°	1425.4	1387.5	1349.6	1304.1	1245.9	1187.8	1124.6	1061.5	988.2	925.0	854.2
70°	1367.2	1336.9	1288.9	1240.9	1187.8	1124.6	1061.5	993.2	917.4	849.2	775.9
72.5°	1309.1	1278.8	1230.8	1180.2	1129.7	1064.0	995.7	927.5	856.7	778.4	700.1
75°	1253.5	1215.6	1172.7	1124.6	1071.6	1003.3	935.1	864.3	780.9	707.6	626.8
77.5°	1200.5	1165.1	1122.1	1069.0	1010.9	945.2	874.4	801.1	717.7	639.4	550.9
80°	1142.3	1106.9	1064.0	1010.9	952.8	889.6	813.8	738.0	657.1	571.2	480.2
82.5°	1086.7	1053.9	1005.9	957.8	894.7	831.5	755.7	679.8	593.9	510.5	422.1
85°	1028.6	995.7	950.3	899.7	839.1	770.8	700.1	624.2	538.3	452.4	363.9
87.5°	978.1	940.1	894.7	844.1	783.5	717.7	649.5	568.6	485.2	401.8	310.9
90°	925.0	889.6	844.1	793.6	732.9	667.2	596.4	520.6	439.7	353.8	267.9
92.5°	879.5	841.6	798.6	748.1	687.4	624.2	553.5	477.7	399.3	315.9	232.5
95°	834.0	796.1	755.7	705.1	644.5	581.3	510.5	437.2	361.4	280.5	202.2
97.5°	783.5	750.6	710.2	662.1	601.5	540.8	472.6	401.8	328.5	250.2	176.9
100°	743.0	705.1	667.2	616.7	561.1	502.9	434.7	366.5	295.7	222.4	154.2
102.5°	697.5	662.1	624.2	576.2	520.6	462.5	399.3	333.6	267.9	199.7	133.9
105°	654.6	621.7	581.3	535.8	482.7	427.1	366.5	305.8	242.6	176.9	118.8
107.5°	611.6	578.7	540.8	497.9	447.3	391.7	336.1	275.5	217.3	159.2	106.1
110°	568.6	538.3	502.9	460.0	411.9	361.4	308.3	252.7	194.6	141.5	93.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	530.7	500.4	465.0	424.6	379.1	331.1	280.5	227.5	174.4	126.4	80.9
115°	492.8	465.0	429.6	394.3	348.8	303.3	255.3	204.7	156.7	113.7	70.8
117.5°	454.9	427.1	394.3	358.9	318.4	275.5	230.0	182.0	141.5	101.1	63.2
120°	417.0	391.7	361.4	328.5	293.2	250.2	204.7	164.3	126.4	88.5	55.6
122.5°	381.6	358.9	331.1	300.7	262.8	222.4	184.5	149.1	113.7	78.3	45.5
125°	348.8	326.0	300.7	270.4	235.0	199.7	166.8	133.9	98.6	68.2	37.9
127.5°	315.9	293.2	267.9	240.1	212.3	179.4	149.1	118.8	88.5	60.7	32.9
130°	283.1	262.8	240.1	217.3	189.5	159.2	133.9	103.6	75.8	48.0	27.8
132.5°	250.2	235.0	214.8	192.1	166.8	144.1	116.3	91.0	65.7	43.0	25.3
135°	222.4	207.2	189.5	169.3	149.1	126.4	101.1	78.3	55.6	35.4	20.2
137.5°	197.1	184.5	166.8	149.1	131.4	108.7	88.5	65.7	45.5	30.3	15.2
140°	174.4	161.7	146.6	128.9	113.7	93.5	73.3	53.1	40.4	25.3	12.6
142.5°	151.6	139.0	126.4	111.2	96.0	78.3	60.7	45.5	32.9	20.2	12.6
145°	128.9	118.8	106.1	93.5	78.3	63.2	50.5	37.9	25.3	15.2	10.1
147.5°	106.1	98.6	85.9	75.8	63.2	50.5	40.4	30.3	20.2	12.6	7.6
150°	85.9	78.3	68.2	58.1	50.5	40.4	32.9	22.7	15.2	12.6	7.6
152.5°	65.7	60.7	53.1	48.0	40.4	30.3	22.7	17.7	12.6	10.1	5.1
155°	53.1	48.0	43.0	35.4	30.3	22.7	17.7	12.6	10.1	7.6	5.1
157.5°	37.9	35.4	30.3	25.3	20.2	15.2	12.6	12.6	7.6	5.1	2.5
160°	25.3	22.7	20.2	15.2	12.6	12.6	10.1	7.6	5.1	5.1	2.5
162.5°	15.2	12.6	12.6	12.6	10.1	10.1	7.6	5.1	5.1	2.5	2.5
165°	10.1	10.1	10.1	7.6	7.6	7.6	5.1	2.5	2.5	2.5	2.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2398.4	2390.8	2400.9	2418.6	2421.1	2418.6	2413.5	2421.1	2431.2	2428.7	2411.0
5°	2393.3	2383.2	2393.3	2411.0	2411.0	2408.5	2406.0	2413.5	2423.6	2421.1	2406.0
7.5°	2378.2	2368.0	2378.2	2393.3	2395.8	2390.8	2390.8	2398.4	2408.5	2406.0	2393.3
10°	2357.9	2347.8	2352.9	2370.6	2375.6	2370.6	2370.6	2378.2	2390.8	2388.3	2373.1
12.5°	2327.6	2320.0	2325.1	2340.2	2345.3	2342.8	2340.2	2350.4	2363.0	2363.0	2347.8
15°	2294.8	2284.6	2289.7	2307.4	2309.9	2304.9	2307.4	2315.0	2330.1	2330.1	2317.5
17.5°	2256.8	2244.2	2251.8	2264.4	2267.0	2267.0	2267.0	2277.1	2294.8	2292.2	2282.1
20°	2213.9	2196.2	2201.2	2213.9	2218.9	2218.9	2218.9	2236.6	2249.3	2249.3	2239.2
22.5°	2163.3	2150.7	2150.7	2163.3	2170.9	2168.4	2168.4	2183.6	2201.2	2198.7	2198.7
25°	2105.2	2095.1	2090.0	2105.2	2107.7	2110.3	2115.3	2130.5	2150.7	2150.7	2153.2
27.5°	2044.6	2034.4	2031.9	2044.6	2047.1	2049.6	2054.7	2072.4	2092.6	2095.1	2100.2
30°	1986.4	1971.3	1966.2	1976.3	1981.4	1983.9	1983.9	2011.7	2029.4	2037.0	2047.1
32.5°	1918.2	1903.0	1890.4	1908.1	1910.6	1915.7	1918.2	1946.0	1966.2	1978.8	1994.0
35°	1850.0	1824.7	1819.6	1832.3	1837.3	1839.8	1844.9	1875.2	1903.0	1913.1	1933.4
37.5°	1774.1	1756.4	1741.3	1753.9	1759.0	1761.5	1776.7	1804.5	1832.3	1847.4	1867.6
40°	1703.4	1680.6	1668.0	1675.6	1680.6	1683.2	1700.8	1731.2	1764.0	1781.7	1807.0
42.5°	1625.0	1594.7	1584.6	1592.2	1594.7	1602.3	1617.4	1657.9	1690.7	1716.0	1736.2
45°	1546.7	1523.9	1501.2	1508.8	1511.3	1516.4	1539.1	1582.1	1617.4	1647.8	1670.5
47.5°	1465.8	1438.0	1415.3	1420.3	1430.4	1433.0	1458.2	1508.8	1541.6	1574.5	1604.8
50°	1384.9	1347.0	1329.3	1329.3	1334.4	1347.0	1379.9	1430.4	1465.8	1503.7	1536.6
52.5°	1301.5	1266.2	1245.9	1248.5	1253.5	1268.7	1299.0	1349.6	1390.0	1430.4	1470.9
55°	1218.1	1180.2	1160.0	1155.0	1160.0	1180.2	1215.6	1268.7	1309.1	1357.1	1400.1
57.5°	1134.7	1089.3	1071.6	1064.0	1069.0	1094.3	1129.7	1185.3	1235.8	1281.3	1331.9
60°	1043.8	1008.4	978.1	960.4	973.0	1005.9	1043.8	1101.9	1155.0	1205.5	1261.1
62.5°	965.4	919.9	887.1	869.4	882.0	909.8	962.9	1018.5	1076.6	1134.7	1190.3
65°	877.0	831.5	793.6	775.9	788.5	821.4	874.4	935.1	998.3	1056.4	1122.1
67.5°	791.0	743.0	697.5	679.8	695.0	730.4	788.5	856.7	925.0	985.6	1056.4
70°	707.6	654.6	606.5	593.9	604.0	652.0	707.6	775.9	846.6	917.4	990.7
72.5°	631.8	566.1	515.6	500.4	513.0	566.1	629.3	700.1	775.9	851.7	930.0
75°	543.4	482.7	427.1	409.4	424.6	472.6	550.9	626.8	707.6	788.5	861.8
77.5°	472.6	401.8	343.7	315.9	341.2	401.8	477.7	558.5	641.9	725.3	808.7
80°	399.3	326.0	262.8	232.5	260.3	326.0	401.8	490.3	583.8	667.2	743.0
82.5°	333.6	255.3	189.5	156.7	187.0	260.3	343.7	432.2	523.1	606.5	695.0
85°	272.9	192.1	123.8	88.5	131.4	197.1	285.6	376.6	470.1	556.0	641.9
87.5°	222.4	144.1	75.8	37.9	80.9	154.2	237.6	328.5	422.1	508.0	588.9
90°	182.0	103.6	40.4	5.1	48.0	116.3	197.1	285.6	374.0	462.5	543.4
92.5°	149.1	78.3	22.7	2.5	30.3	93.5	169.3	252.7	338.7	424.6	502.9
95°	123.8	60.7	15.2	2.5	22.7	73.3	144.1	224.9	305.8	389.2	467.5
97.5°	106.1	50.5	12.6	2.5	17.7	63.2	123.8	199.7	278.0	356.3	432.2
100°	91.0	40.4	10.1	2.5	15.2	53.1	108.7	176.9	250.2	326.0	399.3
102.5°	78.3	32.9	7.6	2.5	12.6	45.5	96.0	159.2	224.9	298.2	369.0
105°	68.2	27.8	7.6	2.5	10.1	40.4	85.9	141.5	207.2	272.9	341.2
107.5°	58.1	22.7	5.1	2.5	7.6	32.9	75.8	128.9	187.0	250.2	313.4
110°	50.5	20.2	5.1	2.5	7.6	30.3	65.7	116.3	169.3	227.5	288.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	43.0	15.2	5.1	2.5	5.1	25.3	58.1	103.6	154.2	207.2	265.4
115°	37.9	12.6	2.5	2.5	5.1	22.7	53.1	93.5	139.0	189.5	242.6
117.5°	30.3	10.1	2.5	2.5	2.5	17.7	45.5	83.4	126.4	174.4	222.4
120°	25.3	10.1	2.5	2.5	2.5	15.2	40.4	73.3	113.7	156.7	202.2
122.5°	22.7	7.6	2.5	2.5	2.5	12.6	35.4	65.7	101.1	141.5	184.5
125°	20.2	7.6	2.5	2.5	2.5	10.1	30.3	58.1	91.0	126.4	166.8
127.5°	15.2	7.6	2.5	2.5	2.5	7.6	27.8	50.5	80.9	113.7	149.1
130°	12.6	5.1	2.5	2.5	2.5	7.6	22.7	45.5	70.8	101.1	133.9
132.5°	10.1	5.1	2.5	2.5	2.5	5.1	17.7	35.4	60.7	88.5	118.8
135°	10.1	5.1	2.5	2.5	2.5	5.1	12.6	30.3	50.5	75.8	101.1
137.5°	10.1	2.5	2.5	2.5	2.5	5.1	10.1	22.7	40.4	60.7	83.4
140°	7.6	2.5	2.5	2.5	2.5	2.5	7.6	17.7	32.9	50.5	70.8
142.5°	7.6	2.5	2.5	2.5	2.5	2.5	7.6	12.6	25.3	40.4	55.6
145°	5.1	2.5	2.5	2.5	2.5	2.5	5.1	10.1	20.2	30.3	45.5
147.5°	5.1	2.5	2.5	2.5	2.5	2.5	5.1	7.6	15.2	25.3	35.4
150°	5.1	2.5	2.5	2.5	2.5	2.5	5.1	7.6	10.1	17.7	27.8
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	7.6	12.6	17.7
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	7.6	10.1	12.6
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	7.6	10.1
160°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	7.6
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1
165°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2403.4	2385.7	2390.8	2388.3	2393.3	2400.9	2400.9	2398.4	2398.4	2393.3	2388.3
5°	2398.4	2380.7	2388.3	2385.7	2390.8	2398.4	2398.4	2395.8	2395.8	2388.3	2385.7
7.5°	2383.2	2370.6	2375.6	2375.6	2380.7	2388.3	2388.3	2385.7	2385.7	2378.2	2375.6
10°	2368.0	2352.9	2360.5	2360.5	2365.5	2375.6	2375.6	2373.1	2373.1	2365.5	2363.0
12.5°	2342.8	2327.6	2340.2	2342.8	2347.8	2357.9	2355.4	2355.4	2355.4	2347.8	2345.3
15°	2312.4	2302.3	2315.0	2317.5	2325.1	2337.7	2337.7	2337.7	2337.7	2330.1	2327.6
17.5°	2279.6	2272.0	2284.6	2289.7	2299.8	2312.4	2312.4	2315.0	2317.5	2312.4	2309.9
20°	2241.7	2236.6	2249.3	2259.4	2274.5	2287.2	2292.2	2294.8	2299.8	2294.8	2292.2
22.5°	2198.7	2198.7	2216.4	2226.5	2244.2	2256.8	2264.4	2272.0	2277.1	2272.0	2269.5
25°	2150.7	2158.3	2176.0	2193.7	2213.9	2226.5	2234.1	2244.2	2249.3	2246.7	2244.2
27.5°	2105.2	2115.3	2138.1	2155.8	2173.4	2193.7	2201.2	2213.9	2218.9	2218.9	2216.4
30°	2052.1	2067.3	2092.6	2112.8	2135.5	2155.8	2165.9	2178.5	2186.1	2181.0	2183.6
32.5°	2001.6	2026.9	2047.1	2069.8	2095.1	2115.3	2128.0	2143.1	2150.7	2148.2	2150.7
35°	1946.0	1971.3	1999.1	2021.8	2052.1	2072.4	2090.0	2102.7	2112.8	2110.3	2110.3
37.5°	1885.3	1918.2	1946.0	1976.3	2004.1	2026.9	2044.6	2059.7	2069.8	2069.8	2069.8
40°	1827.2	1862.6	1890.4	1925.8	1961.2	1981.4	2001.6	2016.8	2026.9	2029.4	2031.9
42.5°	1764.0	1801.9	1834.8	1872.7	1908.1	1933.4	1956.1	1973.8	1983.9	1989.0	1986.4
45°	1705.9	1741.3	1779.2	1822.2	1855.0	1880.3	1908.1	1928.3	1938.4	1940.9	1943.5
47.5°	1640.2	1680.6	1723.6	1766.6	1799.4	1832.3	1857.5	1877.8	1887.9	1895.4	1895.4
50°	1577.0	1620.0	1668.0	1713.5	1748.9	1781.7	1807.0	1829.7	1842.4	1847.4	1850.0
52.5°	1518.9	1559.3	1609.9	1655.4	1690.7	1723.6	1756.4	1781.7	1794.4	1799.4	1799.4
55°	1448.1	1498.7	1554.3	1597.2	1635.1	1673.0	1705.9	1731.2	1743.8	1751.4	1756.4
57.5°	1382.4	1435.5	1493.6	1539.1	1584.6	1620.0	1650.3	1683.2	1693.3	1703.4	1705.9
60°	1319.2	1372.3	1427.9	1478.4	1523.9	1561.8	1597.2	1625.0	1642.7	1647.8	1652.8
62.5°	1253.5	1309.1	1367.2	1417.8	1465.8	1511.3	1544.2	1569.4	1589.6	1597.2	1602.3
65°	1190.3	1248.5	1306.6	1359.7	1410.2	1455.7	1488.6	1513.8	1534.0	1546.7	1549.2
67.5°	1122.1	1185.3	1245.9	1301.5	1352.1	1400.1	1433.0	1458.2	1478.4	1493.6	1496.1
70°	1058.9	1124.6	1185.3	1245.9	1296.5	1344.5	1379.9	1405.2	1427.9	1438.0	1443.1
72.5°	998.3	1066.5	1129.7	1190.3	1240.9	1288.9	1326.8	1352.1	1374.8	1387.5	1390.0
75°	940.1	1008.4	1076.6	1134.7	1187.8	1235.8	1273.7	1301.5	1321.8	1334.4	1339.4
77.5°	882.0	952.8	1021.0	1079.1	1134.7	1182.8	1215.6	1248.5	1268.7	1283.9	1283.9
80°	823.9	897.2	967.9	1026.1	1081.7	1124.6	1162.5	1195.4	1215.6	1230.8	1230.8
82.5°	773.3	844.1	912.3	970.5	1026.1	1074.1	1112.0	1142.3	1165.1	1175.2	1177.7
85°	715.2	793.6	856.7	919.9	973.0	1018.5	1056.4	1089.3	1109.5	1119.6	1124.6
87.5°	667.2	743.0	811.3	866.9	919.9	965.4	1008.4	1036.2	1056.4	1069.0	1074.1
90°	621.7	695.0	763.2	818.8	874.4	917.4	957.8	985.6	1008.4	1018.5	1023.5
92.5°	581.3	654.6	720.3	775.9	828.9	877.0	914.9	942.7	962.9	973.0	980.6
95°	543.4	614.1	677.3	738.0	788.5	831.5	871.9	899.7	922.5	930.0	937.6
97.5°	505.5	573.7	636.9	695.0	748.1	788.5	826.4	854.2	871.9	884.5	892.1
100°	472.6	538.3	599.0	654.6	705.1	743.0	783.5	808.7	826.4	836.5	846.6
102.5°	437.2	502.9	561.1	614.1	667.2	702.6	740.5	765.8	780.9	798.6	798.6
105°	406.9	467.5	525.7	576.2	621.7	664.7	697.5	722.8	740.5	753.1	753.1
107.5°	374.0	434.7	490.3	543.4	586.3	626.8	657.1	679.8	700.1	707.6	715.2
110°	348.8	401.8	457.4	508.0	548.4	586.3	616.7	641.9	659.6	667.2	672.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	318.4	374.0	424.6	472.6	513.0	548.4	578.7	599.0	616.7	626.8	629.3
115°	293.2	346.2	391.7	437.2	480.2	510.5	538.3	558.5	576.2	583.8	588.9
117.5°	270.4	318.4	363.9	401.8	442.3	475.1	502.9	520.6	535.8	545.9	550.9
120°	247.7	293.2	333.6	371.5	409.4	439.7	465.0	482.7	500.4	508.0	508.0
122.5°	224.9	267.9	305.8	341.2	376.6	404.4	432.2	447.3	462.5	470.1	470.1
125°	204.7	245.1	280.5	313.4	346.2	371.5	394.3	411.9	427.1	432.2	432.2
127.5°	184.5	222.4	255.3	285.6	313.4	338.7	361.4	379.1	391.7	396.8	396.8
130°	166.8	199.7	230.0	260.3	288.1	308.3	331.1	346.2	353.8	361.4	363.9
132.5°	149.1	179.4	207.2	232.5	260.3	280.5	298.2	313.4	321.0	328.5	331.1
135°	131.4	159.2	184.5	209.8	232.5	252.7	267.9	280.5	290.6	295.7	298.2
137.5°	111.2	141.5	164.3	184.5	209.8	224.9	242.6	250.2	260.3	265.4	265.4
140°	93.5	116.3	141.5	161.7	182.0	197.1	212.3	224.9	232.5	235.0	235.0
142.5°	75.8	96.0	116.3	141.5	159.2	171.9	187.0	197.1	202.2	204.7	207.2
145°	60.7	75.8	93.5	116.3	136.5	151.6	159.2	169.3	174.4	176.9	179.4
147.5°	45.5	60.7	75.8	91.0	111.2	126.4	133.9	144.1	149.1	151.6	151.6
150°	35.4	45.5	55.6	70.8	85.9	103.6	113.7	121.3	123.8	126.4	126.4
152.5°	25.3	35.4	43.0	53.1	63.2	78.3	93.5	98.6	101.1	103.6	103.6
155°	17.7	25.3	30.3	37.9	45.5	58.1	70.8	78.3	80.9	83.4	83.4
157.5°	12.6	17.7	20.2	27.8	32.9	37.9	48.0	60.7	63.2	63.2	63.2
160°	7.6	10.1	12.6	17.7	20.2	25.3	30.3	37.9	45.5	45.5	45.5
162.5°	5.1	7.6	7.6	10.1	10.1	15.2	17.7	20.2	27.8	30.3	30.3
165°	2.5	5.1	5.1	5.1	5.1	5.1	7.6	7.6	12.6	15.2	15.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2390.8	2395.8	2393.3	2393.3	2393.3	2398.4	2393.3	2370.6	2375.6	2380.7	2385.7
5°	2388.3	2390.8	2390.8	2388.3	2388.3	2393.3	2388.3	2365.5	2370.6	2375.6	2378.2
7.5°	2378.2	2380.7	2380.7	2380.7	2378.2	2383.2	2375.6	2355.4	2355.4	2360.5	2363.0
10°	2365.5	2370.6	2368.0	2365.5	2365.5	2365.5	2360.5	2337.7	2337.7	2340.2	2342.8
12.5°	2350.4	2350.4	2350.4	2347.8	2345.3	2345.3	2340.2	2317.5	2315.0	2320.0	2317.5
15°	2330.1	2335.2	2330.1	2327.6	2322.6	2322.6	2315.0	2292.2	2287.2	2289.7	2287.2
17.5°	2312.4	2315.0	2309.9	2304.9	2299.8	2297.3	2289.7	2264.4	2256.8	2259.4	2254.3
20°	2294.8	2294.8	2289.7	2284.6	2277.1	2269.5	2259.4	2234.1	2221.5	2221.5	2211.4
22.5°	2272.0	2272.0	2267.0	2259.4	2251.8	2241.7	2231.6	2206.3	2186.1	2181.0	2173.4
25°	2246.7	2244.2	2241.7	2234.1	2218.9	2208.8	2198.7	2170.9	2148.2	2138.1	2125.4
27.5°	2216.4	2216.4	2208.8	2201.2	2186.1	2173.4	2160.8	2135.5	2105.2	2092.6	2074.9
30°	2183.6	2183.6	2176.0	2165.9	2150.7	2135.5	2120.4	2090.0	2059.7	2042.0	2021.8
32.5°	2150.7	2148.2	2140.6	2130.5	2115.3	2092.6	2079.9	2049.6	2014.2	1994.0	1966.2
35°	2110.3	2107.7	2100.2	2087.5	2067.3	2049.6	2029.4	2001.6	1961.2	1935.9	1905.6
37.5°	2069.8	2067.3	2062.2	2044.6	2024.3	2004.1	1978.8	1951.0	1913.1	1880.3	1850.0
40°	2029.4	2026.9	2016.8	2004.1	1978.8	1953.6	1928.3	1900.5	1860.1	1822.2	1789.3
42.5°	1986.4	1983.9	1971.3	1956.1	1928.3	1903.0	1872.7	1842.4	1801.9	1756.4	1723.6
45°	1943.5	1938.4	1925.8	1908.1	1877.8	1850.0	1819.6	1784.2	1743.8	1700.8	1657.9
47.5°	1898.0	1890.4	1877.8	1852.5	1827.2	1796.9	1761.5	1723.6	1683.2	1635.1	1589.6
50°	1847.4	1842.4	1827.2	1804.5	1774.1	1743.8	1703.4	1665.5	1617.4	1572.0	1516.4
52.5°	1799.4	1789.3	1776.7	1751.4	1721.1	1688.2	1645.2	1599.8	1551.7	1508.8	1450.6
55°	1748.9	1743.8	1726.1	1705.9	1668.0	1630.1	1589.6	1541.6	1488.6	1438.0	1382.4
57.5°	1700.8	1690.7	1675.6	1647.8	1614.9	1577.0	1534.0	1483.5	1425.4	1372.3	1311.7
60°	1652.8	1637.7	1620.0	1594.7	1559.3	1518.9	1473.4	1420.3	1362.2	1304.1	1240.9
62.5°	1599.8	1587.1	1566.9	1541.6	1506.2	1463.3	1415.3	1359.7	1304.1	1243.4	1175.2
65°	1546.7	1534.0	1513.8	1488.6	1453.2	1405.2	1354.6	1299.0	1235.8	1177.7	1104.4
67.5°	1493.6	1481.0	1458.2	1430.4	1395.0	1349.6	1296.5	1238.4	1175.2	1112.0	1036.2
70°	1440.5	1425.4	1405.2	1374.8	1339.4	1291.4	1238.4	1177.7	1114.5	1046.3	970.5
72.5°	1387.5	1374.8	1349.6	1321.8	1283.9	1235.8	1182.8	1122.1	1056.4	985.6	909.8
75°	1334.4	1319.2	1301.5	1268.7	1228.3	1182.8	1127.2	1066.5	995.7	927.5	849.2
77.5°	1281.3	1268.7	1245.9	1213.1	1175.2	1127.2	1071.6	1010.9	940.1	869.4	786.0
80°	1228.3	1213.1	1195.4	1165.1	1122.1	1074.1	1016.0	955.3	884.5	811.3	727.9
82.5°	1175.2	1160.0	1139.8	1109.5	1069.0	1021.0	965.4	899.7	828.9	753.1	674.8
85°	1122.1	1109.5	1086.7	1056.4	1013.4	965.4	909.8	851.7	775.9	700.1	621.7
87.5°	1069.0	1056.4	1033.7	1003.3	962.9	914.9	859.3	798.6	725.3	654.6	568.6
90°	1018.5	1008.4	985.6	955.3	914.9	866.9	816.3	750.6	679.8	609.1	528.2
92.5°	973.0	962.9	942.7	912.3	877.0	823.9	773.3	710.2	639.4	566.1	487.8
95°	932.6	919.9	899.7	871.9	828.9	783.5	732.9	669.7	601.5	528.2	452.4
97.5°	887.1	874.4	854.2	823.9	788.5	740.5	689.9	629.3	561.1	492.8	417.0
100°	841.6	828.9	806.2	780.9	745.5	697.5	649.5	588.9	525.7	460.0	386.7
102.5°	796.1	783.5	763.2	738.0	702.6	659.6	611.6	553.5	490.3	424.6	356.3
105°	753.1	740.5	720.3	695.0	662.1	619.2	568.6	518.1	457.4	394.3	328.5
107.5°	710.2	697.5	679.8	654.6	621.7	581.3	533.3	480.2	424.6	363.9	300.7
110°	667.2	657.1	636.9	614.1	581.3	540.8	497.9	447.3	391.7	336.1	275.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	626.8	616.7	596.4	571.2	543.4	505.5	462.5	414.5	361.4	308.3	250.2
115°	586.3	573.7	556.0	533.3	505.5	470.1	429.6	386.7	333.6	283.1	230.0
117.5°	545.9	535.8	518.1	495.3	470.1	434.7	396.8	356.3	305.8	257.8	209.8
120°	505.5	497.9	480.2	460.0	434.7	401.8	366.5	326.0	280.5	235.0	189.5
122.5°	467.5	460.0	442.3	424.6	399.3	369.0	336.1	298.2	257.8	214.8	174.4
125°	432.2	422.1	406.9	389.2	366.5	338.7	305.8	270.4	232.5	194.6	156.7
127.5°	394.3	386.7	376.6	356.3	333.6	308.3	278.0	247.7	212.3	176.9	141.5
130°	363.9	353.8	341.2	326.0	305.8	280.5	252.7	222.4	192.1	159.2	123.8
132.5°	328.5	318.4	308.3	293.2	275.5	252.7	227.5	199.7	171.9	141.5	111.2
135°	295.7	288.1	278.0	262.8	245.1	227.5	202.2	176.9	151.6	123.8	98.6
137.5°	265.4	257.8	247.7	237.6	219.9	202.2	179.4	156.7	133.9	108.7	85.9
140°	235.0	230.0	219.9	209.8	194.6	176.9	156.7	136.5	116.3	93.5	73.3
142.5°	204.7	199.7	192.1	182.0	169.3	154.2	136.5	118.8	98.6	80.9	63.2
145°	176.9	174.4	166.8	156.7	146.6	131.4	116.3	101.1	83.4	68.2	50.5
147.5°	149.1	146.6	141.5	133.9	123.8	111.2	98.6	83.4	70.8	55.6	40.4
150°	123.8	121.3	118.8	108.7	103.6	91.0	80.9	68.2	58.1	43.0	32.9
152.5°	101.1	101.1	96.0	88.5	83.4	73.3	65.7	55.6	45.5	35.4	25.3
155°	80.9	78.3	75.8	70.8	65.7	58.1	50.5	43.0	35.4	25.3	17.7
157.5°	63.2	60.7	58.1	53.1	48.0	45.5	37.9	30.3	22.7	17.7	12.6
160°	45.5	43.0	40.4	37.9	35.4	30.3	25.3	20.2	15.2	10.1	7.6
162.5°	30.3	27.8	27.8	25.3	22.7	17.7	15.2	12.6	10.1	7.6	5.1
165°	15.2	15.2	12.6	12.6	10.1	7.6	7.6	7.6	5.1	5.1	2.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2383.2	2383.2	2393.3	2390.8	2383.2	2398.4	2416.1
5°	2375.6	2375.6	2383.2	2383.2	2375.6	2390.8	2406.0
7.5°	2363.0	2360.5	2368.0	2368.0	2357.9	2370.6	2388.3
10°	2340.2	2337.7	2345.3	2345.3	2335.2	2347.8	2363.0
12.5°	2315.0	2309.9	2317.5	2315.0	2304.9	2317.5	2332.7
15°	2282.1	2279.6	2284.6	2279.6	2269.5	2282.1	2297.3
17.5°	2249.3	2241.7	2244.2	2244.2	2226.5	2239.2	2251.8
20°	2206.3	2196.2	2198.7	2196.2	2183.6	2191.1	2206.3
22.5°	2163.3	2148.2	2148.2	2145.6	2130.5	2140.6	2153.2
25°	2110.3	2092.6	2092.6	2090.0	2072.4	2079.9	2092.6
27.5°	2057.2	2039.5	2031.9	2029.4	2011.7	2011.7	2029.4
30°	2001.6	1976.3	1971.3	1963.7	1946.0	1946.0	1961.2
32.5°	1948.5	1913.1	1903.0	1892.9	1875.2	1872.7	1890.4
35°	1877.8	1850.0	1832.3	1822.2	1801.9	1796.9	1812.0
37.5°	1819.6	1784.2	1759.0	1746.3	1726.1	1718.5	1738.8
40°	1756.4	1718.5	1685.7	1678.1	1647.8	1637.7	1655.4
42.5°	1685.7	1645.2	1612.4	1597.2	1574.5	1564.4	1566.9
45°	1614.9	1572.0	1536.6	1516.4	1493.6	1475.9	1486.0
47.5°	1541.6	1503.7	1460.8	1430.4	1402.6	1390.0	1395.0
50°	1468.3	1422.8	1382.4	1349.6	1316.7	1301.5	1311.7
52.5°	1395.0	1347.0	1301.5	1266.2	1228.3	1213.1	1215.6
55°	1324.3	1273.7	1220.7	1182.8	1147.4	1124.6	1119.6
57.5°	1253.5	1197.9	1142.3	1099.4	1053.9	1033.7	1026.1
60°	1177.7	1119.6	1061.5	1010.9	962.9	940.1	930.0
62.5°	1106.9	1043.8	978.1	925.0	877.0	846.6	839.1
65°	1038.7	965.4	899.7	839.1	786.0	753.1	743.0
67.5°	965.4	889.6	818.8	753.1	702.6	659.6	654.6
70°	897.2	816.3	738.0	669.7	614.1	571.2	550.9
72.5°	828.9	745.5	664.7	591.4	520.6	480.2	465.0
75°	763.2	677.3	591.4	515.6	437.2	389.2	374.0
77.5°	702.6	614.1	523.1	439.7	366.5	305.8	285.6
80°	644.5	553.5	457.4	371.5	293.2	227.5	204.7
82.5°	583.8	497.9	399.3	308.3	227.5	159.2	131.4
85°	530.7	444.8	346.2	255.3	174.4	101.1	70.8
87.5°	487.8	394.3	305.8	214.8	131.4	58.1	20.2
90°	444.8	353.8	265.4	176.9	98.6	32.9	2.5
92.5°	406.9	321.0	232.5	151.6	75.8	22.7	2.5
95°	371.5	288.1	204.7	126.4	60.7	15.2	2.5
97.5°	338.7	260.3	182.0	108.7	50.5	12.6	2.5
100°	310.9	235.0	161.7	96.0	43.0	10.1	2.5
102.5°	283.1	212.3	144.1	83.4	37.9	7.6	2.5
105°	260.3	192.1	128.9	75.8	32.9	7.6	2.5
107.5°	237.6	174.4	116.3	65.7	27.8	5.1	2.5
110°	214.8	159.2	103.6	58.1	25.3	5.1	2.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.1	144.1	93.5	53.1	20.2	5.1	2.5
115°	179.4	128.9	83.4	45.5	17.7	2.5	2.5
117.5°	161.7	116.3	73.3	40.4	15.2	2.5	2.5
120°	146.6	103.6	65.7	35.4	12.6	2.5	2.5
122.5°	131.4	93.5	58.1	30.3	10.1	2.5	2.5
125°	118.8	83.4	50.5	25.3	7.6	2.5	2.5
127.5°	106.1	73.3	45.5	22.7	7.6	2.5	2.5
130°	93.5	65.7	37.9	17.7	5.1	2.5	2.5
132.5°	83.4	55.6	32.9	15.2	5.1	2.5	2.5
135°	73.3	48.0	27.8	10.1	5.1	2.5	2.5
137.5°	63.2	40.4	22.7	7.6	2.5	2.5	2.5
140°	53.1	35.4	17.7	7.6	2.5	2.5	2.5
142.5°	45.5	27.8	12.6	5.1	2.5	2.5	2.5
145°	35.4	22.7	10.1	5.1	2.5	2.5	2.5
147.5°	27.8	17.7	7.6	5.1	2.5	2.5	2.5
150°	20.2	12.6	7.6	2.5	2.5	2.5	2.5
152.5°	15.2	10.1	5.1	2.5	2.5	2.5	2.5
155°	10.1	7.6	5.1	2.5	2.5	2.5	2.5
157.5°	7.6	5.1	2.5	2.5	2.5	2.5	2.5
160°	5.1	2.5	2.5	2.5	2.5	2.5	2.5
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5
165°	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)