

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-LD5-136SL-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-LD5-136SL-LW-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

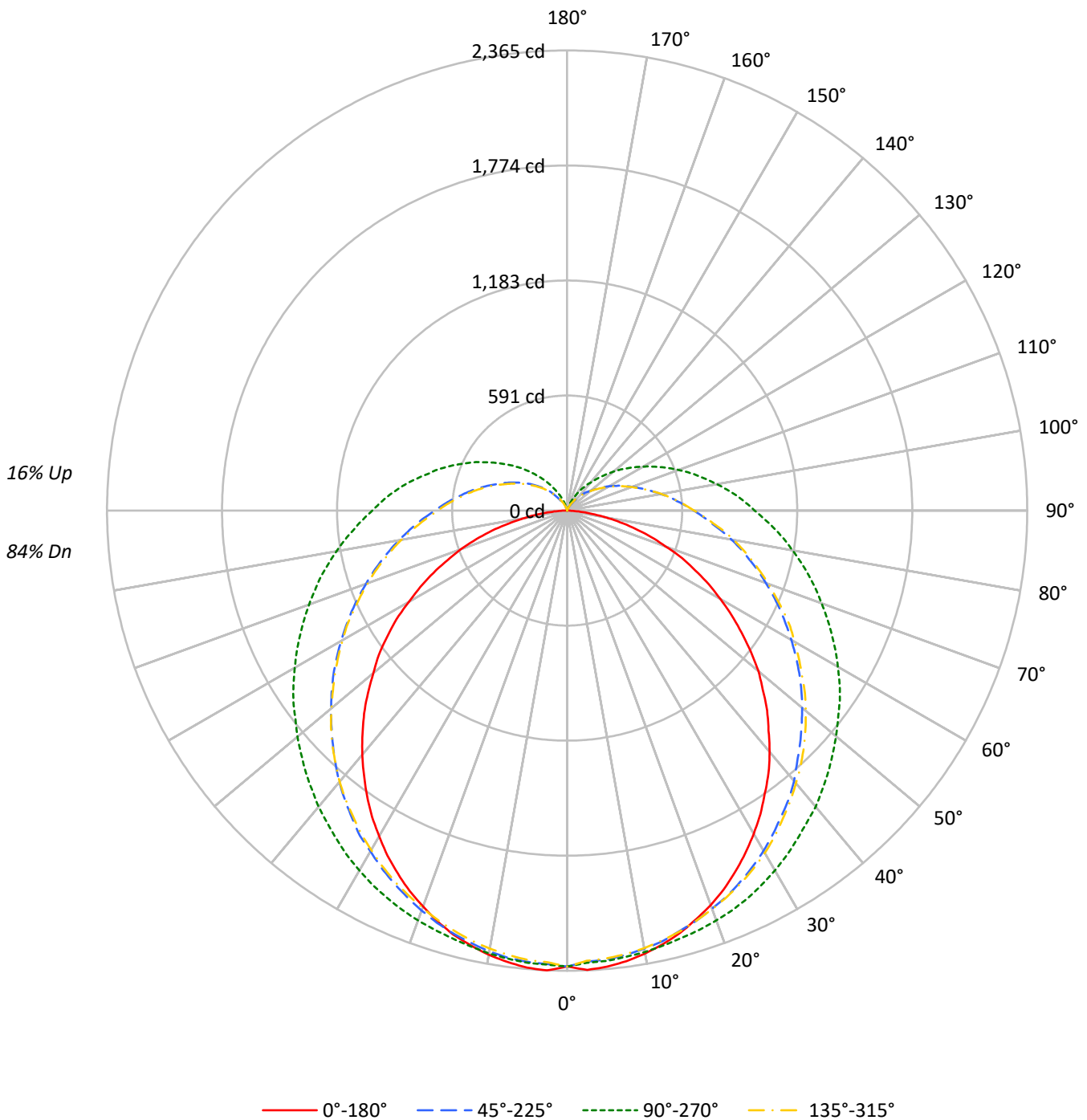
Lumens per Lamp: N/A  
Luminaire Lumens: 10180.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 110  
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°	9467	9467	9467	9467
5°	9531	9124	9551	9163
10°	9456	8865	9486	8893
15°	9359	8643	9400	8652
20°	9226	8481	9257	8481
25°	9058	8337	9113	8327
30°	8869	8189	8937	8189
35°	8647	8052	8743	8061
40°	8428	7971	8531	7971
45°	8177	7886	8302	7897
50°	7916	7836	8023	7858
55°	7545	7844	7784	7878
60°	7157	7868	7390	7916
65°	6722	7947	7019	8025
70°	6103	8093	6579	8208
75°	5396	8357	5906	8518
80°	4279	8749	4861	8952
85°	2722	9378	3402	9638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.0	2.2
10°-20°	637.9	6.3
20°-30°	978.1	9.6
30°-40°	1206.6	11.9
40°-50°	1309.1	12.9
50°-60°	1290.3	12.7
60°-70°	1166.6	11.5
70°-80°	971.9	9.5
80°-90°	752.7	7.4
90°-100°	570.9	5.6
100°-110°	422.5	4.1
110°-120°	293.9	2.9
120°-130°	187.5	1.8
130°-140°	105.2	1.0
140°-150°	48.0	0.5
150°-160°	14.9	0.1
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1838.0	18.1
0°-40°	3044.6	29.9
0°-60°	5644.0	55.4
0°-90°	8535.3	83.8
90°-120°	1287.2	12.6
90°-150°	1628.0	16.0
90°-180°	1645.0	16.2
0°-180°	10180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2343	2343	2343	2343	2343	
5°	2353	2323	2358	2333	2353	223
15°	2247	2274	2257	2276	2247	633
25°	2046	2197	2059	2195	2046	943
35°	1772	2061	1792	2064	1772	1110
45°	1453	1898	1476	1901	1453	1120
55°	1095	1710	1130	1718	1095	980
65°	727	1500	759	1515	727	720
75°	366	1285	400	1310	366	387
85°	69	1070	86	1100	69	84
90°	2	964	5	1001	2	4
95°	2	875	2	917	2	2
105°	2	694	2	737	2	3
115°	2	529	2	576	2	2
125°	2	381	2	423	2	2
135°	2	247	2	292	2	2
145°	2	143	2	176	2	2
155°	2	59	2	82	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-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2362.9	2362.9	2360.4	2355.5	2358.0	2365.4	2360.4	2348.1	2340.7	2320.9	2325.8
5°	2353.0	2353.0	2350.6	2345.6	2348.1	2358.0	2353.0	2343.1	2333.3	2315.9	2323.4
7.5°	2335.7	2335.7	2333.3	2328.3	2333.3	2343.1	2338.2	2328.3	2320.9	2303.6	2311.0
10°	2311.0	2313.5	2311.0	2303.6	2313.5	2323.4	2320.9	2308.5	2301.1	2286.3	2293.7
12.5°	2281.3	2283.8	2281.3	2278.9	2283.8	2298.6	2293.7	2283.8	2278.9	2266.5	2273.9
15°	2246.7	2249.2	2244.3	2244.3	2249.2	2264.0	2264.0	2254.2	2249.2	2236.9	2251.7
17.5°	2202.3	2204.7	2202.3	2202.3	2207.2	2222.0	2224.5	2219.6	2214.6	2209.7	2224.5
20°	2157.8	2155.3	2155.3	2152.8	2162.7	2185.0	2182.5	2182.5	2177.5	2177.5	2194.8
22.5°	2105.9	2105.9	2103.4	2103.4	2115.7	2135.5	2135.5	2140.5	2135.5	2145.4	2160.2
25°	2046.5	2049.0	2046.5	2051.5	2061.4	2083.6	2086.1	2093.5	2096.0	2105.9	2123.2
27.5°	1984.7	1987.2	1984.7	1989.7	2007.0	2024.3	2036.7	2046.5	2049.0	2063.8	2086.1
30°	1918.0	1918.0	1920.5	1925.4	1945.2	1972.4	1982.3	1994.6	1994.6	2019.3	2041.6
32.5°	1848.8	1848.8	1848.8	1858.7	1880.9	1913.1	1925.4	1940.3	1945.2	1969.9	1994.6
35°	1772.2	1774.7	1774.7	1782.1	1811.7	1843.9	1861.2	1878.5	1888.4	1918.0	1942.7
37.5°	1700.5	1705.4	1698.0	1707.9	1749.9	1777.1	1796.9	1814.2	1831.5	1871.0	1890.8
40°	1618.9	1623.9	1621.4	1641.2	1675.8	1710.4	1732.6	1749.9	1774.7	1814.2	1836.4
42.5°	1532.4	1537.4	1542.3	1564.6	1601.6	1636.2	1663.4	1685.7	1715.3	1749.9	1787.0
45°	1453.3	1453.3	1460.8	1487.9	1527.5	1564.6	1596.7	1621.4	1656.0	1693.1	1730.2
47.5°	1364.4	1366.8	1376.7	1408.8	1450.9	1495.4	1525.0	1557.1	1594.2	1633.8	1675.8
50°	1282.8	1282.8	1297.6	1332.2	1371.8	1421.2	1453.3	1490.4	1530.0	1576.9	1618.9
52.5°	1188.9	1193.8	1216.1	1248.2	1300.1	1344.6	1381.7	1421.2	1468.2	1517.6	1564.6
55°	1094.9	1104.8	1122.1	1166.6	1221.0	1263.0	1307.5	1356.9	1401.4	1455.8	1510.2
57.5°	1003.5	1010.9	1038.1	1082.6	1139.4	1191.3	1238.3	1285.3	1339.6	1394.0	1450.9
60°	909.6	919.5	951.6	996.1	1057.9	1112.2	1166.6	1216.1	1272.9	1329.8	1389.1
62.5°	820.6	828.0	865.1	917.0	978.8	1038.1	1092.5	1151.8	1213.6	1268.0	1327.3
65°	726.7	739.0	781.0	828.0	899.7	959.0	1020.8	1085.1	1149.3	1208.6	1265.5
67.5°	640.2	647.6	692.1	746.4	818.1	884.9	949.1	1018.3	1085.1	1146.9	1203.7
70°	538.8	563.5	608.0	664.9	741.5	810.7	879.9	951.6	1023.3	1087.5	1141.9
72.5°	454.8	474.6	524.0	585.8	659.9	741.5	813.2	889.8	961.5	1028.2	1085.1
75°	365.8	385.6	442.4	511.6	588.3	674.8	748.9	828.0	902.2	968.9	1028.2
77.5°	279.3	304.0	365.8	437.5	521.5	610.5	687.1	766.2	842.8	914.5	973.8
80°	200.2	227.4	294.1	375.7	457.3	546.2	630.3	709.4	786.0	857.7	919.5
82.5°	128.5	158.2	229.9	311.4	397.9	486.9	573.4	652.5	729.1	800.8	865.1
85°	69.2	101.3	175.5	257.1	343.6	432.5	519.0	603.1	677.2	744.0	813.2
87.5°	19.8	59.3	131.0	212.6	301.5	383.1	467.1	551.2	625.3	697.0	758.8
90°	2.5	34.6	98.9	175.5	262.0	341.1	425.1	504.2	578.4	650.0	711.8
92.5°	2.5	22.2	76.6	145.8	224.9	306.5	390.5	467.1	536.4	608.0	669.8
95°	2.5	17.3	61.8	123.6	197.7	274.4	353.4	427.6	499.3	566.0	627.8
97.5°	2.5	12.4	49.4	106.3	173.0	244.7	321.3	395.5	464.7	528.9	585.8
100°	2.5	9.9	39.5	91.5	150.8	220.0	289.2	360.9	427.6	489.4	548.7
102.5°	2.5	7.4	34.6	76.6	133.5	195.3	262.0	328.7	393.0	452.3	511.6
105°	2.5	7.4	29.7	66.7	118.6	175.5	237.3	301.5	360.9	417.7	472.1
107.5°	2.5	4.9	24.7	56.8	103.8	158.2	215.0	276.8	331.2	385.6	437.5
110°	2.5	4.9	19.8	51.9	91.5	140.9	195.3	252.1	304.0	355.9	405.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.5	4.9	17.3	44.5	79.1	126.1	175.5	227.4	276.8	328.7	373.2
115°	2.5	4.9	14.8	39.5	74.1	108.8	158.2	205.1	254.6	301.5	343.6
117.5°	2.5	4.9	12.4	32.1	64.3	98.9	138.4	185.4	229.9	274.4	313.9
120°	2.5	4.9	9.9	29.7	56.8	89.0	123.6	165.6	207.6	249.6	291.7
122.5°	2.5	2.5	9.9	24.7	49.4	79.1	113.7	145.8	185.4	224.9	262.0
125°	2.5	2.5	9.9	22.2	42.0	71.7	101.3	131.0	165.6	200.2	232.3
127.5°	2.5	2.5	7.4	17.3	37.1	61.8	89.0	121.1	145.8	178.0	210.1
130°	2.5	2.5	7.4	14.8	32.1	51.9	79.1	106.3	135.9	158.2	185.4
132.5°	2.5	2.5	7.4	12.4	24.7	42.0	66.7	91.5	118.6	143.4	165.6
135°	2.5	2.5	4.9	9.9	19.8	34.6	54.4	76.6	103.8	128.5	150.8
137.5°	2.5	2.5	4.9	9.9	14.8	29.7	42.0	61.8	86.5	108.8	131.0
140°	2.5	2.5	4.9	7.4	12.4	22.2	34.6	49.4	69.2	89.0	113.7
142.5°	2.5	2.5	2.5	7.4	9.9	17.3	27.2	39.5	54.4	71.7	91.5
145°	2.5	2.5	2.5	7.4	9.9	12.4	22.2	32.1	42.0	54.4	71.7
147.5°	2.5	2.5	2.5	4.9	7.4	9.9	17.3	24.7	32.1	42.0	51.9
150°	2.5	2.5	2.5	4.9	7.4	9.9	12.4	17.3	24.7	34.6	42.0
152.5°	2.5	2.5	2.5	4.9	4.9	7.4	9.9	12.4	17.3	24.7	29.7
155°	2.5	2.5	2.5	2.5	4.9	7.4	9.9	9.9	12.4	17.3	22.2
157.5°	2.5	2.5	2.5	2.5	4.9	4.9	7.4	7.4	9.9	9.9	14.8
160°	2.5	2.5	2.5	2.5	2.5	4.9	4.9	7.4	7.4	7.4	7.4
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9	7.4	7.4
165°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2325.8	2328.3	2335.7	2335.7	2330.8	2330.8	2328.3	2325.8	2328.3	2333.3	2333.3
5°	2320.9	2323.4	2330.8	2333.3	2328.3	2325.8	2325.8	2323.4	2325.8	2330.8	2330.8
7.5°	2311.0	2313.5	2320.9	2323.4	2318.4	2318.4	2315.9	2313.5	2318.4	2320.9	2320.9
10°	2296.2	2298.6	2308.5	2311.0	2308.5	2306.1	2306.1	2303.6	2306.1	2311.0	2311.0
12.5°	2276.4	2281.3	2293.7	2293.7	2293.7	2291.2	2291.2	2288.8	2291.2	2296.2	2293.7
15°	2254.2	2264.0	2273.9	2278.9	2278.9	2278.9	2276.4	2273.9	2278.9	2281.3	2278.9
17.5°	2229.4	2241.8	2256.6	2261.6	2261.6	2264.0	2261.6	2259.1	2264.0	2264.0	2261.6
20°	2204.7	2217.1	2231.9	2236.9	2241.8	2244.3	2244.3	2241.8	2244.3	2246.7	2244.3
22.5°	2172.6	2187.4	2204.7	2212.1	2217.1	2222.0	2222.0	2222.0	2224.5	2227.0	2222.0
25°	2138.0	2155.3	2175.1	2182.5	2192.4	2194.8	2197.3	2197.3	2199.8	2202.3	2194.8
27.5°	2100.9	2120.7	2140.5	2152.8	2160.2	2165.2	2165.2	2167.6	2170.1	2172.6	2165.2
30°	2056.4	2086.1	2103.4	2113.3	2123.2	2130.6	2133.0	2135.5	2138.0	2140.5	2133.0
32.5°	2016.9	2041.6	2063.8	2076.2	2088.6	2098.4	2100.9	2100.9	2105.9	2105.9	2098.4
35°	1969.9	1999.6	2021.8	2034.2	2049.0	2056.4	2061.4	2061.4	2066.3	2066.3	2058.9
37.5°	1923.0	1952.6	1977.3	1992.2	2009.5	2019.3	2021.8	2021.8	2026.8	2026.8	2016.9
40°	1873.5	1905.7	1932.8	1950.1	1965.0	1977.3	1979.8	1987.2	1987.2	1984.7	1974.9
42.5°	1824.1	1853.7	1883.4	1903.2	1923.0	1935.3	1940.3	1942.7	1942.7	1940.3	1932.8
45°	1769.7	1804.3	1831.5	1856.2	1876.0	1888.4	1895.8	1898.2	1898.2	1893.3	1885.9
47.5°	1717.8	1752.4	1779.6	1806.8	1826.6	1841.4	1848.8	1851.3	1848.8	1846.3	1838.9
50°	1663.4	1703.0	1730.2	1757.4	1777.1	1789.5	1801.8	1804.3	1801.8	1799.4	1784.5
52.5°	1606.6	1648.6	1678.3	1705.4	1727.7	1742.5	1752.4	1754.9	1754.9	1749.9	1740.1
55°	1549.7	1586.8	1623.9	1653.5	1678.3	1693.1	1705.4	1710.4	1705.4	1700.5	1688.1
57.5°	1497.8	1532.4	1569.5	1601.6	1626.4	1646.1	1656.0	1661.0	1656.0	1648.6	1636.2
60°	1436.0	1473.1	1515.1	1544.8	1572.0	1591.8	1596.7	1606.6	1601.6	1594.2	1581.9
62.5°	1376.7	1421.2	1458.3	1495.4	1517.6	1539.8	1549.7	1554.7	1549.7	1542.3	1530.0
65°	1314.9	1364.4	1401.4	1438.5	1463.2	1485.5	1497.8	1500.3	1495.4	1487.9	1475.6
67.5°	1258.1	1305.0	1344.6	1384.1	1406.4	1428.6	1441.0	1445.9	1441.0	1431.1	1418.7
70°	1201.2	1248.2	1295.2	1324.8	1352.0	1376.7	1384.1	1391.5	1386.6	1376.7	1361.9
72.5°	1144.4	1193.8	1240.8	1270.4	1300.1	1322.3	1332.2	1339.6	1334.7	1324.8	1307.5
75°	1085.1	1137.0	1183.9	1216.1	1245.7	1268.0	1277.9	1285.3	1280.3	1270.4	1250.7
77.5°	1030.7	1082.6	1127.1	1161.7	1191.3	1211.1	1228.4	1230.9	1225.9	1216.1	1196.3
80°	973.8	1025.7	1072.7	1107.3	1137.0	1156.7	1169.1	1176.5	1171.6	1161.7	1141.9
82.5°	924.4	971.4	1018.3	1052.9	1082.6	1107.3	1117.2	1124.6	1122.1	1107.3	1092.5
85°	870.0	924.4	961.5	998.6	1028.2	1052.9	1060.3	1070.2	1067.8	1055.4	1035.6
87.5°	815.6	870.0	914.5	951.6	978.8	998.6	1010.9	1015.9	1013.4	1001.0	978.8
90°	771.2	820.6	865.1	904.6	926.9	949.1	961.5	963.9	963.9	949.1	931.8
92.5°	729.1	776.1	820.6	857.7	884.9	904.6	914.5	919.5	917.0	904.6	884.9
95°	682.2	734.1	776.1	813.2	840.4	860.1	870.0	875.0	872.5	860.1	840.4
97.5°	642.6	689.6	731.6	766.2	793.4	813.2	823.1	828.0	828.0	815.6	795.9
100°	603.1	650.0	689.6	724.2	748.9	768.7	778.6	781.0	778.6	768.7	748.9
102.5°	563.5	608.0	647.6	679.7	706.9	724.2	734.1	736.6	736.6	724.2	704.4
105°	524.0	568.5	605.6	640.2	662.4	679.7	687.1	694.5	692.1	682.2	662.4
107.5°	486.9	531.4	566.0	598.1	620.4	637.7	645.1	652.5	650.0	640.2	620.4
110°	452.3	494.3	526.5	558.6	578.4	595.7	608.0	610.5	605.6	595.7	578.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	420.2	457.3	489.4	519.0	541.3	553.7	563.5	568.5	563.5	553.7	541.3
115°	385.6	422.7	454.8	482.0	501.7	516.6	524.0	528.9	524.0	514.1	501.7
117.5°	353.4	388.1	420.2	447.4	464.7	477.0	484.4	489.4	484.4	477.0	464.7
120°	326.3	355.9	385.6	410.3	430.1	440.0	447.4	452.3	449.8	440.0	427.6
122.5°	294.1	326.3	353.4	378.2	395.5	405.4	410.3	415.2	412.8	405.4	393.0
125°	266.9	294.1	321.3	343.6	360.9	370.7	375.7	380.6	378.2	370.7	355.9
127.5°	237.3	266.9	289.2	311.4	323.8	338.6	341.1	346.0	343.6	336.1	323.8
130°	215.0	237.3	259.5	279.3	294.1	304.0	309.0	311.4	306.5	301.5	289.2
132.5°	187.8	212.6	232.3	249.6	259.5	269.4	274.4	276.8	276.8	269.4	259.5
135°	168.1	185.4	202.7	220.0	229.9	239.8	244.7	247.2	244.7	239.8	229.9
137.5°	150.8	165.6	178.0	192.8	205.1	210.1	215.0	215.0	212.6	210.1	202.7
140°	131.0	148.3	160.7	170.5	180.4	182.9	187.8	187.8	185.4	182.9	178.0
142.5°	111.2	126.1	138.4	150.8	158.2	163.1	165.6	168.1	165.6	163.1	155.7
145°	89.0	106.3	118.6	126.1	135.9	138.4	140.9	143.4	140.9	138.4	131.0
147.5°	69.2	84.0	96.4	106.3	113.7	116.2	118.6	121.1	118.6	113.7	111.2
150°	49.4	61.8	76.6	86.5	91.5	96.4	96.4	96.4	98.9	93.9	89.0
152.5°	39.5	44.5	54.4	64.3	71.7	74.1	76.6	76.6	74.1	74.1	69.2
155°	27.2	32.1	39.5	47.0	54.4	56.8	59.3	59.3	56.8	56.8	54.4
157.5°	17.3	22.2	27.2	32.1	39.5	42.0	44.5	44.5	44.5	42.0	39.5
160°	9.9	12.4	14.8	19.8	24.7	27.2	29.7	29.7	29.7	29.7	27.2
162.5°	7.4	7.4	7.4	9.9	12.4	14.8	17.3	17.3	17.3	17.3	14.8
165°	4.9	4.9	4.9	4.9	4.9	7.4	9.9	9.9	9.9	9.9	9.9
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-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2330.8	2330.8	2333.3	2328.3	2313.5	2315.9	2315.9	2325.8	2330.8	2333.3	2345.6
5°	2325.8	2325.8	2330.8	2323.4	2311.0	2311.0	2311.0	2320.9	2323.4	2328.3	2338.2
7.5°	2318.4	2318.4	2320.9	2313.5	2298.6	2298.6	2296.2	2306.1	2311.0	2313.5	2323.4
10°	2306.1	2306.1	2308.5	2301.1	2283.8	2283.8	2281.3	2288.8	2291.2	2296.2	2303.6
12.5°	2288.8	2288.8	2288.8	2281.3	2264.0	2261.6	2259.1	2266.5	2266.5	2269.0	2276.4
15°	2273.9	2269.0	2269.0	2261.6	2244.3	2239.3	2234.4	2236.9	2241.8	2239.3	2244.3
17.5°	2256.6	2251.7	2246.7	2239.3	2217.1	2209.7	2204.7	2207.2	2204.7	2202.3	2207.2
20°	2236.9	2229.4	2227.0	2214.6	2192.4	2180.0	2170.1	2165.2	2167.6	2160.2	2162.7
22.5°	2214.6	2204.7	2199.8	2185.0	2162.7	2147.9	2135.5	2125.6	2123.2	2113.3	2115.7
25°	2187.4	2175.1	2167.6	2155.3	2130.6	2113.3	2098.4	2083.6	2076.2	2063.8	2061.4
27.5°	2155.3	2142.9	2133.0	2120.7	2096.0	2073.7	2056.4	2036.7	2026.8	2011.9	2004.5
30°	2123.2	2108.3	2093.5	2083.6	2056.4	2031.7	2004.5	1987.2	1972.4	1955.1	1942.7
32.5°	2083.6	2068.8	2054.0	2039.1	2014.4	1984.7	1962.5	1935.3	1918.0	1898.2	1883.4
35°	2044.1	2024.3	2009.5	1989.7	1967.4	1932.8	1905.7	1878.5	1856.2	1834.0	1816.7
37.5°	1999.6	1984.7	1962.5	1945.2	1918.0	1883.4	1853.7	1819.1	1799.4	1769.7	1747.5
40°	1957.6	1940.3	1918.0	1895.8	1868.6	1829.0	1796.9	1757.4	1735.1	1700.5	1678.3
42.5°	1915.5	1890.8	1868.6	1843.9	1814.2	1777.1	1737.6	1698.0	1668.4	1636.2	1604.1
45°	1868.6	1841.4	1814.2	1787.0	1757.4	1720.3	1678.3	1636.2	1599.2	1569.5	1530.0
47.5°	1819.1	1792.0	1759.8	1730.2	1698.0	1661.0	1616.5	1572.0	1532.4	1497.8	1455.8
50°	1769.7	1742.5	1707.9	1675.8	1638.7	1601.6	1554.7	1502.8	1460.8	1416.3	1379.2
52.5°	1717.8	1690.6	1658.5	1616.5	1576.9	1539.8	1490.4	1436.0	1389.1	1352.0	1305.0
55°	1665.9	1638.7	1601.6	1559.6	1520.1	1473.1	1426.2	1371.8	1319.9	1275.4	1228.4
57.5°	1611.5	1586.8	1544.8	1510.2	1460.8	1411.3	1361.9	1310.0	1253.1	1201.2	1146.9
60°	1557.1	1530.0	1490.4	1448.4	1399.0	1349.5	1297.6	1240.8	1181.5	1124.6	1075.2
62.5°	1507.7	1473.1	1436.0	1391.5	1339.6	1292.7	1233.4	1171.6	1112.2	1052.9	993.6
65°	1450.9	1413.8	1379.2	1334.7	1280.3	1225.9	1166.6	1104.8	1040.6	976.3	917.0
67.5°	1394.0	1356.9	1319.9	1275.4	1218.5	1161.7	1099.9	1038.1	966.4	904.6	835.4
70°	1337.2	1307.5	1260.5	1213.6	1161.7	1099.9	1038.1	971.4	897.2	830.5	758.8
72.5°	1280.3	1250.7	1203.7	1154.3	1104.8	1040.6	973.8	907.1	837.9	761.3	684.7
75°	1225.9	1188.9	1146.9	1099.9	1048.0	981.3	914.5	845.3	763.7	692.1	613.0
77.5°	1174.0	1139.4	1097.4	1045.5	988.7	924.4	855.2	783.5	702.0	625.3	538.8
80°	1117.2	1082.6	1040.6	988.7	931.8	870.0	795.9	721.7	642.6	558.6	469.6
82.5°	1062.8	1030.7	983.7	936.8	875.0	813.2	739.0	664.9	580.8	499.3	412.8
85°	1006.0	973.8	929.3	879.9	820.6	753.9	684.7	610.5	526.5	442.4	355.9
87.5°	956.5	919.5	875.0	825.5	766.2	702.0	635.2	556.1	474.6	393.0	304.0
90°	904.6	870.0	825.5	776.1	716.8	652.5	583.3	509.2	430.1	346.0	262.0
92.5°	860.1	823.1	781.0	731.6	672.3	610.5	541.3	467.1	390.5	309.0	227.4
95°	815.6	778.6	739.0	689.6	630.3	568.5	499.3	427.6	353.4	274.4	197.7
97.5°	766.2	734.1	694.5	647.6	588.3	528.9	462.2	393.0	321.3	244.7	173.0
100°	726.7	689.6	652.5	603.1	548.7	491.9	425.1	358.4	289.2	217.5	150.8
102.5°	682.2	647.6	610.5	563.5	509.2	452.3	390.5	326.3	262.0	195.3	131.0
105°	640.2	608.0	568.5	524.0	472.1	417.7	358.4	299.1	237.3	173.0	116.2
107.5°	598.1	566.0	528.9	486.9	437.5	383.1	328.7	269.4	212.6	155.7	103.8
110°	556.1	526.5	491.9	449.8	402.9	353.4	301.5	247.2	190.3	138.4	91.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	519.0	489.4	454.8	415.2	370.7	323.8	274.4	222.4	170.5	123.6	79.1
115°	482.0	454.8	420.2	385.6	341.1	296.6	249.6	200.2	153.2	111.2	69.2
117.5°	444.9	417.7	385.6	351.0	311.4	269.4	224.9	178.0	138.4	98.9	61.8
120°	407.8	383.1	353.4	321.3	286.7	244.7	200.2	160.7	123.6	86.5	54.4
122.5°	373.2	351.0	323.8	294.1	257.1	217.5	180.4	145.8	111.2	76.6	44.5
125°	341.1	318.8	294.1	264.5	229.9	195.3	163.1	131.0	96.4	66.7	37.1
127.5°	309.0	286.7	262.0	234.8	207.6	175.5	145.8	116.2	86.5	59.3	32.1
130°	276.8	257.1	234.8	212.6	185.4	155.7	131.0	101.3	74.1	47.0	27.2
132.5°	244.7	229.9	210.1	187.8	163.1	140.9	113.7	89.0	64.3	42.0	24.7
135°	217.5	202.7	185.4	165.6	145.8	123.6	98.9	76.6	54.4	34.6	19.8
137.5°	192.8	180.4	163.1	145.8	128.5	106.3	86.5	64.3	44.5	29.7	14.8
140°	170.5	158.2	143.4	126.1	111.2	91.5	71.7	51.9	39.5	24.7	12.4
142.5°	148.3	135.9	123.6	108.8	93.9	76.6	59.3	44.5	32.1	19.8	12.4
145°	126.1	116.2	103.8	91.5	76.6	61.8	49.4	37.1	24.7	14.8	9.9
147.5°	103.8	96.4	84.0	74.1	61.8	49.4	39.5	29.7	19.8	12.4	7.4
150°	84.0	76.6	66.7	56.8	49.4	39.5	32.1	22.2	14.8	12.4	7.4
152.5°	64.3	59.3	51.9	47.0	39.5	29.7	22.2	17.3	12.4	9.9	4.9
155°	51.9	47.0	42.0	34.6	29.7	22.2	17.3	12.4	9.9	7.4	4.9
157.5°	37.1	34.6	29.7	24.7	19.8	14.8	12.4	12.4	7.4	4.9	2.5
160°	24.7	22.2	19.8	14.8	12.4	12.4	9.9	7.4	4.9	4.9	2.5
162.5°	14.8	12.4	12.4	12.4	9.9	9.9	7.4	4.9	4.9	2.5	2.5
165°	9.9	9.9	9.9	7.4	7.4	7.4	4.9	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-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2345.6	2338.2	2348.1	2365.4	2367.9	2365.4	2360.4	2367.9	2377.7	2375.3	2358.0
5°	2340.7	2330.8	2340.7	2358.0	2358.0	2355.5	2353.0	2360.4	2370.3	2367.9	2353.0
7.5°	2325.8	2315.9	2325.8	2340.7	2343.1	2338.2	2338.2	2345.6	2355.5	2353.0	2340.7
10°	2306.1	2296.2	2301.1	2318.4	2323.4	2318.4	2318.4	2325.8	2338.2	2335.7	2320.9
12.5°	2276.4	2269.0	2273.9	2288.8	2293.7	2291.2	2288.8	2298.6	2311.0	2311.0	2296.2
15°	2244.3	2234.4	2239.3	2256.6	2259.1	2254.2	2256.6	2264.0	2278.9	2278.9	2266.5
17.5°	2207.2	2194.8	2202.3	2214.6	2217.1	2217.1	2217.1	2227.0	2244.3	2241.8	2231.9
20°	2165.2	2147.9	2152.8	2165.2	2170.1	2170.1	2170.1	2187.4	2199.8	2199.8	2189.9
22.5°	2115.7	2103.4	2103.4	2115.7	2123.2	2120.7	2120.7	2135.5	2152.8	2150.3	2150.3
25°	2058.9	2049.0	2044.1	2058.9	2061.4	2063.8	2068.8	2083.6	2103.4	2103.4	2105.9
27.5°	1999.6	1989.7	1987.2	1999.6	2002.0	2004.5	2009.5	2026.8	2046.5	2049.0	2054.0
30°	1942.7	1927.9	1923.0	1932.8	1937.8	1940.3	1940.3	1967.4	1984.7	1992.2	2002.0
32.5°	1876.0	1861.2	1848.8	1866.1	1868.6	1873.5	1876.0	1903.2	1923.0	1935.3	1950.1
35°	1809.3	1784.5	1779.6	1792.0	1796.9	1799.4	1804.3	1834.0	1861.2	1871.0	1890.8
37.5°	1735.1	1717.8	1703.0	1715.3	1720.3	1722.7	1737.6	1764.8	1792.0	1806.8	1826.6
40°	1665.9	1643.7	1631.3	1638.7	1643.7	1646.1	1663.4	1693.1	1725.2	1742.5	1767.2
42.5°	1589.3	1559.6	1549.7	1557.1	1559.6	1567.0	1581.9	1621.4	1653.5	1678.3	1698.0
45°	1512.7	1490.4	1468.2	1475.6	1478.1	1483.0	1505.2	1547.3	1581.9	1611.5	1633.8
47.5°	1433.6	1406.4	1384.1	1389.1	1399.0	1401.4	1426.2	1475.6	1507.7	1539.8	1569.5
50°	1354.5	1317.4	1300.1	1300.1	1305.0	1317.4	1349.5	1399.0	1433.6	1470.6	1502.8
52.5°	1272.9	1238.3	1218.5	1221.0	1225.9	1240.8	1270.4	1319.9	1359.4	1399.0	1438.5
55°	1191.3	1154.3	1134.5	1129.6	1134.5	1154.3	1188.9	1240.8	1280.3	1327.3	1369.3
57.5°	1109.8	1065.3	1048.0	1040.6	1045.5	1070.2	1104.8	1159.2	1208.6	1253.1	1302.6
60°	1020.8	986.2	956.5	939.2	951.6	983.7	1020.8	1077.6	1129.6	1179.0	1233.4
62.5°	944.2	899.7	867.6	850.3	862.6	889.8	941.7	996.1	1052.9	1109.8	1164.2
65°	857.7	813.2	776.1	758.8	771.2	803.3	855.2	914.5	976.3	1033.2	1097.4
67.5°	773.6	726.7	682.2	664.9	679.7	714.3	771.2	837.9	904.6	963.9	1033.2
70°	692.1	640.2	593.2	580.8	590.7	637.7	692.1	758.8	828.0	897.2	968.9
72.5°	617.9	553.7	504.2	489.4	501.7	553.7	615.4	684.7	758.8	833.0	909.6
75°	531.4	472.1	417.7	400.4	415.2	462.2	538.8	613.0	692.1	771.2	842.8
77.5°	462.2	393.0	336.1	309.0	333.7	393.0	467.1	546.2	627.8	709.4	790.9
80°	390.5	318.8	257.1	227.4	254.6	318.8	393.0	479.5	571.0	652.5	726.7
82.5°	326.3	249.6	185.4	153.2	182.9	254.6	336.1	422.7	511.6	593.2	679.7
85°	266.9	187.8	121.1	86.5	128.5	192.8	279.3	368.3	459.7	543.8	627.8
87.5°	217.5	140.9	74.1	37.1	79.1	150.8	232.3	321.3	412.8	496.8	575.9
90°	178.0	101.3	39.5	4.9	47.0	113.7	192.8	279.3	365.8	452.3	531.4
92.5°	145.8	76.6	22.2	2.5	29.7	91.5	165.6	247.2	331.2	415.2	491.9
95°	121.1	59.3	14.8	2.5	22.2	71.7	140.9	220.0	299.1	380.6	457.3
97.5°	103.8	49.4	12.4	2.5	17.3	61.8	121.1	195.3	271.9	348.5	422.7
100°	89.0	39.5	9.9	2.5	14.8	51.9	106.3	173.0	244.7	318.8	390.5
102.5°	76.6	32.1	7.4	2.5	12.4	44.5	93.9	155.7	220.0	291.7	360.9
105°	66.7	27.2	7.4	2.5	9.9	39.5	84.0	138.4	202.7	266.9	333.7
107.5°	56.8	22.2	4.9	2.5	7.4	32.1	74.1	126.1	182.9	244.7	306.5
110°	49.4	19.8	4.9	2.5	7.4	29.7	64.3	113.7	165.6	222.4	281.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	42.0	14.8	4.9	2.5	4.9	24.7	56.8	101.3	150.8	202.7	259.5
115°	37.1	12.4	2.5	2.5	4.9	22.2	51.9	91.5	135.9	185.4	237.3
117.5°	29.7	9.9	2.5	2.5	2.5	17.3	44.5	81.6	123.6	170.5	217.5
120°	24.7	9.9	2.5	2.5	2.5	14.8	39.5	71.7	111.2	153.2	197.7
122.5°	22.2	7.4	2.5	2.5	2.5	12.4	34.6	64.3	98.9	138.4	180.4
125°	19.8	7.4	2.5	2.5	2.5	9.9	29.7	56.8	89.0	123.6	163.1
127.5°	14.8	7.4	2.5	2.5	2.5	7.4	27.2	49.4	79.1	111.2	145.8
130°	12.4	4.9	2.5	2.5	2.5	7.4	22.2	44.5	69.2	98.9	131.0
132.5°	9.9	4.9	2.5	2.5	2.5	4.9	17.3	34.6	59.3	86.5	116.2
135°	9.9	4.9	2.5	2.5	2.5	4.9	12.4	29.7	49.4	74.1	98.9
137.5°	9.9	2.5	2.5	2.5	2.5	4.9	9.9	22.2	39.5	59.3	81.6
140°	7.4	2.5	2.5	2.5	2.5	2.5	7.4	17.3	32.1	49.4	69.2
142.5°	7.4	2.5	2.5	2.5	2.5	2.5	7.4	12.4	24.7	39.5	54.4
145°	4.9	2.5	2.5	2.5	2.5	2.5	4.9	9.9	19.8	29.7	44.5
147.5°	4.9	2.5	2.5	2.5	2.5	2.5	4.9	7.4	14.8	24.7	34.6
150°	4.9	2.5	2.5	2.5	2.5	2.5	4.9	7.4	9.9	17.3	27.2
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	7.4	12.4	17.3
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	7.4	9.9	12.4
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	7.4	9.9
160°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	7.4
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9
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-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2350.6	2333.3	2338.2	2335.7	2340.7	2348.1	2348.1	2345.6	2345.6	2340.7	2335.7
5°	2345.6	2328.3	2335.7	2333.3	2338.2	2345.6	2345.6	2343.1	2343.1	2335.7	2333.3
7.5°	2330.8	2318.4	2323.4	2323.4	2328.3	2335.7	2335.7	2333.3	2333.3	2325.8	2323.4
10°	2315.9	2301.1	2308.5	2308.5	2313.5	2323.4	2323.4	2320.9	2320.9	2313.5	2311.0
12.5°	2291.2	2276.4	2288.8	2291.2	2296.2	2306.1	2303.6	2303.6	2303.6	2296.2	2293.7
15°	2261.6	2251.7	2264.0	2266.5	2273.9	2286.3	2286.3	2286.3	2286.3	2278.9	2276.4
17.5°	2229.4	2222.0	2234.4	2239.3	2249.2	2261.6	2261.6	2264.0	2266.5	2261.6	2259.1
20°	2192.4	2187.4	2199.8	2209.7	2224.5	2236.9	2241.8	2244.3	2249.2	2244.3	2241.8
22.5°	2150.3	2150.3	2167.6	2177.5	2194.8	2207.2	2214.6	2222.0	2227.0	2222.0	2219.6
25°	2103.4	2110.8	2128.1	2145.4	2165.2	2177.5	2185.0	2194.8	2199.8	2197.3	2194.8
27.5°	2058.9	2068.8	2091.0	2108.3	2125.6	2145.4	2152.8	2165.2	2170.1	2170.1	2167.6
30°	2007.0	2021.8	2046.5	2066.3	2088.6	2108.3	2118.2	2130.6	2138.0	2133.0	2135.5
32.5°	1957.6	1982.3	2002.0	2024.3	2049.0	2068.8	2081.1	2096.0	2103.4	2100.9	2103.4
35°	1903.2	1927.9	1955.1	1977.3	2007.0	2026.8	2044.1	2056.4	2066.3	2063.8	2063.8
37.5°	1843.9	1876.0	1903.2	1932.8	1960.0	1982.3	1999.6	2014.4	2024.3	2024.3	2024.3
40°	1787.0	1821.6	1848.8	1883.4	1918.0	1937.8	1957.6	1972.4	1982.3	1984.7	1987.2
42.5°	1725.2	1762.3	1794.4	1831.5	1866.1	1890.8	1913.1	1930.4	1940.3	1945.2	1942.7
45°	1668.4	1703.0	1740.1	1782.1	1814.2	1838.9	1866.1	1885.9	1895.8	1898.2	1900.7
47.5°	1604.1	1643.7	1685.7	1727.7	1759.8	1792.0	1816.7	1836.4	1846.3	1853.7	1853.7
50°	1542.3	1584.3	1631.3	1675.8	1710.4	1742.5	1767.2	1789.5	1801.8	1806.8	1809.3
52.5°	1485.5	1525.0	1574.4	1618.9	1653.5	1685.7	1717.8	1742.5	1754.9	1759.8	1759.8
55°	1416.3	1465.7	1520.1	1562.1	1599.2	1636.2	1668.4	1693.1	1705.4	1712.9	1717.8
57.5°	1352.0	1403.9	1460.8	1505.2	1549.7	1584.3	1614.0	1646.1	1656.0	1665.9	1668.4
60°	1290.2	1342.1	1396.5	1445.9	1490.4	1527.5	1562.1	1589.3	1606.6	1611.5	1616.5
62.5°	1225.9	1280.3	1337.2	1386.6	1433.6	1478.1	1510.2	1534.9	1554.7	1562.1	1567.0
65°	1164.2	1221.0	1277.9	1329.8	1379.2	1423.7	1455.8	1480.5	1500.3	1512.7	1515.1
67.5°	1097.4	1159.2	1218.5	1272.9	1322.3	1369.3	1401.4	1426.2	1445.9	1460.8	1463.2
70°	1035.6	1099.9	1159.2	1218.5	1268.0	1314.9	1349.5	1374.2	1396.5	1406.4	1411.3
72.5°	976.3	1043.0	1104.8	1164.2	1213.6	1260.5	1297.6	1322.3	1344.6	1356.9	1359.4
75°	919.5	986.2	1052.9	1109.8	1161.7	1208.6	1245.7	1272.9	1292.7	1305.0	1310.0
77.5°	862.6	931.8	998.6	1055.4	1109.8	1156.7	1188.9	1221.0	1240.8	1255.6	1255.6
80°	805.8	877.4	946.6	1003.5	1057.9	1099.9	1137.0	1169.1	1188.9	1203.7	1203.7
82.5°	756.3	825.5	892.3	949.1	1003.5	1050.5	1087.5	1117.2	1139.4	1149.3	1151.8
85°	699.5	776.1	837.9	899.7	951.6	996.1	1033.2	1065.3	1085.1	1094.9	1099.9
87.5°	652.5	726.7	793.4	847.8	899.7	944.2	986.2	1013.4	1033.2	1045.5	1050.5
90°	608.0	679.7	746.4	800.8	855.2	897.2	936.8	963.9	986.2	996.1	1001.0
92.5°	568.5	640.2	704.4	758.8	810.7	857.7	894.7	921.9	941.7	951.6	959.0
95°	531.4	600.6	662.4	721.7	771.2	813.2	852.7	879.9	902.2	909.6	917.0
97.5°	494.3	561.1	622.9	679.7	731.6	771.2	808.2	835.4	852.7	865.1	872.5
100°	462.2	526.5	585.8	640.2	689.6	726.7	766.2	790.9	808.2	818.1	828.0
102.5°	427.6	491.9	548.7	600.6	652.5	687.1	724.2	748.9	763.7	781.0	781.0
105°	397.9	457.3	514.1	563.5	608.0	650.0	682.2	706.9	724.2	736.6	736.6
107.5°	365.8	425.1	479.5	531.4	573.4	613.0	642.6	664.9	684.7	692.1	699.5
110°	341.1	393.0	447.4	496.8	536.4	573.4	603.1	627.8	645.1	652.5	657.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	311.4	365.8	415.2	462.2	501.7	536.4	566.0	585.8	603.1	613.0	615.4
115°	286.7	338.6	383.1	427.6	469.6	499.3	526.5	546.2	563.5	571.0	575.9
117.5°	264.5	311.4	355.9	393.0	432.5	464.7	491.9	509.2	524.0	533.9	538.8
120°	242.2	286.7	326.3	363.3	400.4	430.1	454.8	472.1	489.4	496.8	496.8
122.5°	220.0	262.0	299.1	333.7	368.3	395.5	422.7	437.5	452.3	459.7	459.7
125°	200.2	239.8	274.4	306.5	338.6	363.3	385.6	402.9	417.7	422.7	422.7
127.5°	180.4	217.5	249.6	279.3	306.5	331.2	353.4	370.7	383.1	388.1	388.1
130°	163.1	195.3	224.9	254.6	281.8	301.5	323.8	338.6	346.0	353.4	355.9
132.5°	145.8	175.5	202.7	227.4	254.6	274.4	291.7	306.5	313.9	321.3	323.8
135°	128.5	155.7	180.4	205.1	227.4	247.2	262.0	274.4	284.2	289.2	291.7
137.5°	108.8	138.4	160.7	180.4	205.1	220.0	237.3	244.7	254.6	259.5	259.5
140°	91.5	113.7	138.4	158.2	178.0	192.8	207.6	220.0	227.4	229.9	229.9
142.5°	74.1	93.9	113.7	138.4	155.7	168.1	182.9	192.8	197.7	200.2	202.7
145°	59.3	74.1	91.5	113.7	133.5	148.3	155.7	165.6	170.5	173.0	175.5
147.5°	44.5	59.3	74.1	89.0	108.8	123.6	131.0	140.9	145.8	148.3	148.3
150°	34.6	44.5	54.4	69.2	84.0	101.3	111.2	118.6	121.1	123.6	123.6
152.5°	24.7	34.6	42.0	51.9	61.8	76.6	91.5	96.4	98.9	101.3	101.3
155°	17.3	24.7	29.7	37.1	44.5	56.8	69.2	76.6	79.1	81.6	81.6
157.5°	12.4	17.3	19.8	27.2	32.1	37.1	47.0	59.3	61.8	61.8	61.8
160°	7.4	9.9	12.4	17.3	19.8	24.7	29.7	37.1	44.5	44.5	44.5
162.5°	4.9	7.4	7.4	9.9	9.9	14.8	17.3	19.8	27.2	29.7	29.7
165°	2.5	4.9	4.9	4.9	4.9	4.9	7.4	7.4	12.4	14.8	14.8
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-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2338.2	2343.1	2340.7	2340.7	2340.7	2345.6	2340.7	2318.4	2323.4	2328.3	2333.3
5°	2335.7	2338.2	2338.2	2335.7	2335.7	2340.7	2335.7	2313.5	2318.4	2323.4	2325.8
7.5°	2325.8	2328.3	2328.3	2328.3	2325.8	2330.8	2323.4	2303.6	2303.6	2308.5	2311.0
10°	2313.5	2318.4	2315.9	2313.5	2313.5	2313.5	2308.5	2286.3	2286.3	2288.8	2291.2
12.5°	2298.6	2298.6	2298.6	2296.2	2293.7	2293.7	2288.8	2266.5	2264.0	2269.0	2266.5
15°	2278.9	2283.8	2278.9	2276.4	2271.5	2271.5	2264.0	2241.8	2236.9	2239.3	2236.9
17.5°	2261.6	2264.0	2259.1	2254.2	2249.2	2246.7	2239.3	2214.6	2207.2	2209.7	2204.7
20°	2244.3	2244.3	2239.3	2234.4	2227.0	2219.6	2209.7	2185.0	2172.6	2172.6	2162.7
22.5°	2222.0	2222.0	2217.1	2209.7	2202.3	2192.4	2182.5	2157.8	2138.0	2133.0	2125.6
25°	2197.3	2194.8	2192.4	2185.0	2170.1	2160.2	2150.3	2123.2	2100.9	2091.0	2078.7
27.5°	2167.6	2167.6	2160.2	2152.8	2138.0	2125.6	2113.3	2088.6	2058.9	2046.5	2029.2
30°	2135.5	2135.5	2128.1	2118.2	2103.4	2088.6	2073.7	2044.1	2014.4	1997.1	1977.3
32.5°	2103.4	2100.9	2093.5	2083.6	2068.8	2046.5	2034.2	2004.5	1969.9	1950.1	1923.0
35°	2063.8	2061.4	2054.0	2041.6	2021.8	2004.5	1984.7	1957.6	1918.0	1893.3	1863.6
37.5°	2024.3	2021.8	2016.9	1999.6	1979.8	1960.0	1935.3	1908.1	1871.0	1838.9	1809.3
40°	1984.7	1982.3	1972.4	1960.0	1935.3	1910.6	1885.9	1858.7	1819.1	1782.1	1749.9
42.5°	1942.7	1940.3	1927.9	1913.1	1885.9	1861.2	1831.5	1801.8	1762.3	1717.8	1685.7
45°	1900.7	1895.8	1883.4	1866.1	1836.4	1809.3	1779.6	1745.0	1705.4	1663.4	1621.4
47.5°	1856.2	1848.8	1836.4	1811.7	1787.0	1757.4	1722.7	1685.7	1646.1	1599.2	1554.7
50°	1806.8	1801.8	1787.0	1764.8	1735.1	1705.4	1665.9	1628.8	1581.9	1537.4	1483.0
52.5°	1759.8	1749.9	1737.6	1712.9	1683.2	1651.1	1609.1	1564.6	1517.6	1475.6	1418.7
55°	1710.4	1705.4	1688.1	1668.4	1631.3	1594.2	1554.7	1507.7	1455.8	1406.4	1352.0
57.5°	1663.4	1653.5	1638.7	1611.5	1579.4	1542.3	1500.3	1450.9	1394.0	1342.1	1282.8
60°	1616.5	1601.6	1584.3	1559.6	1525.0	1485.5	1441.0	1389.1	1332.2	1275.4	1213.6
62.5°	1564.6	1552.2	1532.4	1507.7	1473.1	1431.1	1384.1	1329.8	1275.4	1216.1	1149.3
65°	1512.7	1500.3	1480.5	1455.8	1421.2	1374.2	1324.8	1270.4	1208.6	1151.8	1080.1
67.5°	1460.8	1448.4	1426.2	1399.0	1364.4	1319.9	1268.0	1211.1	1149.3	1087.5	1013.4
70°	1408.8	1394.0	1374.2	1344.6	1310.0	1263.0	1211.1	1151.8	1090.0	1023.3	949.1
72.5°	1356.9	1344.6	1319.9	1292.7	1255.6	1208.6	1156.7	1097.4	1033.2	963.9	889.8
75°	1305.0	1290.2	1272.9	1240.8	1201.2	1156.7	1102.4	1043.0	973.8	907.1	830.5
77.5°	1253.1	1240.8	1218.5	1186.4	1149.3	1102.4	1048.0	988.7	919.5	850.3	768.7
80°	1201.2	1186.4	1169.1	1139.4	1097.4	1050.5	993.6	934.3	865.1	793.4	711.8
82.5°	1149.3	1134.5	1114.7	1085.1	1045.5	998.6	944.2	879.9	810.7	736.6	659.9
85°	1097.4	1085.1	1062.8	1033.2	991.1	944.2	889.8	833.0	758.8	684.7	608.0
87.5°	1045.5	1033.2	1010.9	981.3	941.7	894.7	840.4	781.0	709.4	640.2	556.1
90°	996.1	986.2	963.9	934.3	894.7	847.8	798.3	734.1	664.9	595.7	516.6
92.5°	951.6	941.7	921.9	892.3	857.7	805.8	756.3	694.5	625.3	553.7	477.0
95°	912.0	899.7	879.9	852.7	810.7	766.2	716.8	655.0	588.3	516.6	442.4
97.5°	867.6	855.2	835.4	805.8	771.2	724.2	674.8	615.4	548.7	482.0	407.8
100°	823.1	810.7	788.5	763.7	729.1	682.2	635.2	575.9	514.1	449.8	378.2
102.5°	778.6	766.2	746.4	721.7	687.1	645.1	598.1	541.3	479.5	415.2	348.5
105°	736.6	724.2	704.4	679.7	647.6	605.6	556.1	506.7	447.4	385.6	321.3
107.5°	694.5	682.2	664.9	640.2	608.0	568.5	521.5	469.6	415.2	355.9	294.1
110°	652.5	642.6	622.9	600.6	568.5	528.9	486.9	437.5	383.1	328.7	269.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	613.0	603.1	583.3	558.6	531.4	494.3	452.3	405.4	353.4	301.5	244.7
115°	573.4	561.1	543.8	521.5	494.3	459.7	420.2	378.2	326.3	276.8	224.9
117.5°	533.9	524.0	506.7	484.4	459.7	425.1	388.1	348.5	299.1	252.1	205.1
120°	494.3	486.9	469.6	449.8	425.1	393.0	358.4	318.8	274.4	229.9	185.4
122.5°	457.3	449.8	432.5	415.2	390.5	360.9	328.7	291.7	252.1	210.1	170.5
125°	422.7	412.8	397.9	380.6	358.4	331.2	299.1	264.5	227.4	190.3	153.2
127.5°	385.6	378.2	368.3	348.5	326.3	301.5	271.9	242.2	207.6	173.0	138.4
130°	355.9	346.0	333.7	318.8	299.1	274.4	247.2	217.5	187.8	155.7	121.1
132.5°	321.3	311.4	301.5	286.7	269.4	247.2	222.4	195.3	168.1	138.4	108.8
135°	289.2	281.8	271.9	257.1	239.8	222.4	197.7	173.0	148.3	121.1	96.4
137.5°	259.5	252.1	242.2	232.3	215.0	197.7	175.5	153.2	131.0	106.3	84.0
140°	229.9	224.9	215.0	205.1	190.3	173.0	153.2	133.5	113.7	91.5	71.7
142.5°	200.2	195.3	187.8	178.0	165.6	150.8	133.5	116.2	96.4	79.1	61.8
145°	173.0	170.5	163.1	153.2	143.4	128.5	113.7	98.9	81.6	66.7	49.4
147.5°	145.8	143.4	138.4	131.0	121.1	108.8	96.4	81.6	69.2	54.4	39.5
150°	121.1	118.6	116.2	106.3	101.3	89.0	79.1	66.7	56.8	42.0	32.1
152.5°	98.9	98.9	93.9	86.5	81.6	71.7	64.3	54.4	44.5	34.6	24.7
155°	79.1	76.6	74.1	69.2	64.3	56.8	49.4	42.0	34.6	24.7	17.3
157.5°	61.8	59.3	56.8	51.9	47.0	44.5	37.1	29.7	22.2	17.3	12.4
160°	44.5	42.0	39.5	37.1	34.6	29.7	24.7	19.8	14.8	9.9	7.4
162.5°	29.7	27.2	27.2	24.7	22.2	17.3	14.8	12.4	9.9	7.4	4.9
165°	14.8	14.8	12.4	12.4	9.9	7.4	7.4	7.4	4.9	4.9	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-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2330.8	2330.8	2340.7	2338.2	2330.8	2345.6	2362.9
5°	2323.4	2323.4	2330.8	2330.8	2323.4	2338.2	2353.0
7.5°	2311.0	2308.5	2315.9	2315.9	2306.1	2318.4	2335.7
10°	2288.8	2286.3	2293.7	2293.7	2283.8	2296.2	2311.0
12.5°	2264.0	2259.1	2266.5	2264.0	2254.2	2266.5	2281.3
15°	2231.9	2229.4	2234.4	2229.4	2219.6	2231.9	2246.7
17.5°	2199.8	2192.4	2194.8	2194.8	2177.5	2189.9	2202.3
20°	2157.8	2147.9	2150.3	2147.9	2135.5	2142.9	2157.8
22.5°	2115.7	2100.9	2100.9	2098.4	2083.6	2093.5	2105.9
25°	2063.8	2046.5	2046.5	2044.1	2026.8	2034.2	2046.5
27.5°	2011.9	1994.6	1987.2	1984.7	1967.4	1967.4	1984.7
30°	1957.6	1932.8	1927.9	1920.5	1903.2	1903.2	1918.0
32.5°	1905.7	1871.0	1861.2	1851.3	1834.0	1831.5	1848.8
35°	1836.4	1809.3	1792.0	1782.1	1762.3	1757.4	1772.2
37.5°	1779.6	1745.0	1720.3	1707.9	1688.1	1680.7	1700.5
40°	1717.8	1680.7	1648.6	1641.2	1611.5	1601.6	1618.9
42.5°	1648.6	1609.1	1576.9	1562.1	1539.8	1530.0	1532.4
45°	1579.4	1537.4	1502.8	1483.0	1460.8	1443.5	1453.3
47.5°	1507.7	1470.6	1428.6	1399.0	1371.8	1359.4	1364.4
50°	1436.0	1391.5	1352.0	1319.9	1287.7	1272.9	1282.8
52.5°	1364.4	1317.4	1272.9	1238.3	1201.2	1186.4	1188.9
55°	1295.2	1245.7	1193.8	1156.7	1122.1	1099.9	1094.9
57.5°	1225.9	1171.6	1117.2	1075.2	1030.7	1010.9	1003.5
60°	1151.8	1094.9	1038.1	988.7	941.7	919.5	909.6
62.5°	1082.6	1020.8	956.5	904.6	857.7	828.0	820.6
65°	1015.9	944.2	879.9	820.6	768.7	736.6	726.7
67.5°	944.2	870.0	800.8	736.6	687.1	645.1	640.2
70°	877.4	798.3	721.7	655.0	600.6	558.6	538.8
72.5°	810.7	729.1	650.0	578.4	509.2	469.6	454.8
75°	746.4	662.4	578.4	504.2	427.6	380.6	365.8
77.5°	687.1	600.6	511.6	430.1	358.4	299.1	279.3
80°	630.3	541.3	447.4	363.3	286.7	222.4	200.2
82.5°	571.0	486.9	390.5	301.5	222.4	155.7	128.5
85°	519.0	435.0	338.6	249.6	170.5	98.9	69.2
87.5°	477.0	385.6	299.1	210.1	128.5	56.8	19.8
90°	435.0	346.0	259.5	173.0	96.4	32.1	2.5
92.5°	397.9	313.9	227.4	148.3	74.1	22.2	2.5
95°	363.3	281.8	200.2	123.6	59.3	14.8	2.5
97.5°	331.2	254.6	178.0	106.3	49.4	12.4	2.5
100°	304.0	229.9	158.2	93.9	42.0	9.9	2.5
102.5°	276.8	207.6	140.9	81.6	37.1	7.4	2.5
105°	254.6	187.8	126.1	74.1	32.1	7.4	2.5
107.5°	232.3	170.5	113.7	64.3	27.2	4.9	2.5
110°	210.1	155.7	101.3	56.8	24.7	4.9	2.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	192.8	140.9	91.5	51.9	19.8	4.9	2.5
115°	175.5	126.1	81.6	44.5	17.3	2.5	2.5
117.5°	158.2	113.7	71.7	39.5	14.8	2.5	2.5
120°	143.4	101.3	64.3	34.6	12.4	2.5	2.5
122.5°	128.5	91.5	56.8	29.7	9.9	2.5	2.5
125°	116.2	81.6	49.4	24.7	7.4	2.5	2.5
127.5°	103.8	71.7	44.5	22.2	7.4	2.5	2.5
130°	91.5	64.3	37.1	17.3	4.9	2.5	2.5
132.5°	81.6	54.4	32.1	14.8	4.9	2.5	2.5
135°	71.7	47.0	27.2	9.9	4.9	2.5	2.5
137.5°	61.8	39.5	22.2	7.4	2.5	2.5	2.5
140°	51.9	34.6	17.3	7.4	2.5	2.5	2.5
142.5°	44.5	27.2	12.4	4.9	2.5	2.5	2.5
145°	34.6	22.2	9.9	4.9	2.5	2.5	2.5
147.5°	27.2	17.3	7.4	4.9	2.5	2.5	2.5
150°	19.8	12.4	7.4	2.5	2.5	2.5	2.5
152.5°	14.8	9.9	4.9	2.5	2.5	2.5	2.5
155°	9.9	7.4	4.9	2.5	2.5	2.5	2.5
157.5°	7.4	4.9	2.5	2.5	2.5	2.5	2.5
160°	4.9	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)