

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-L930-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-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

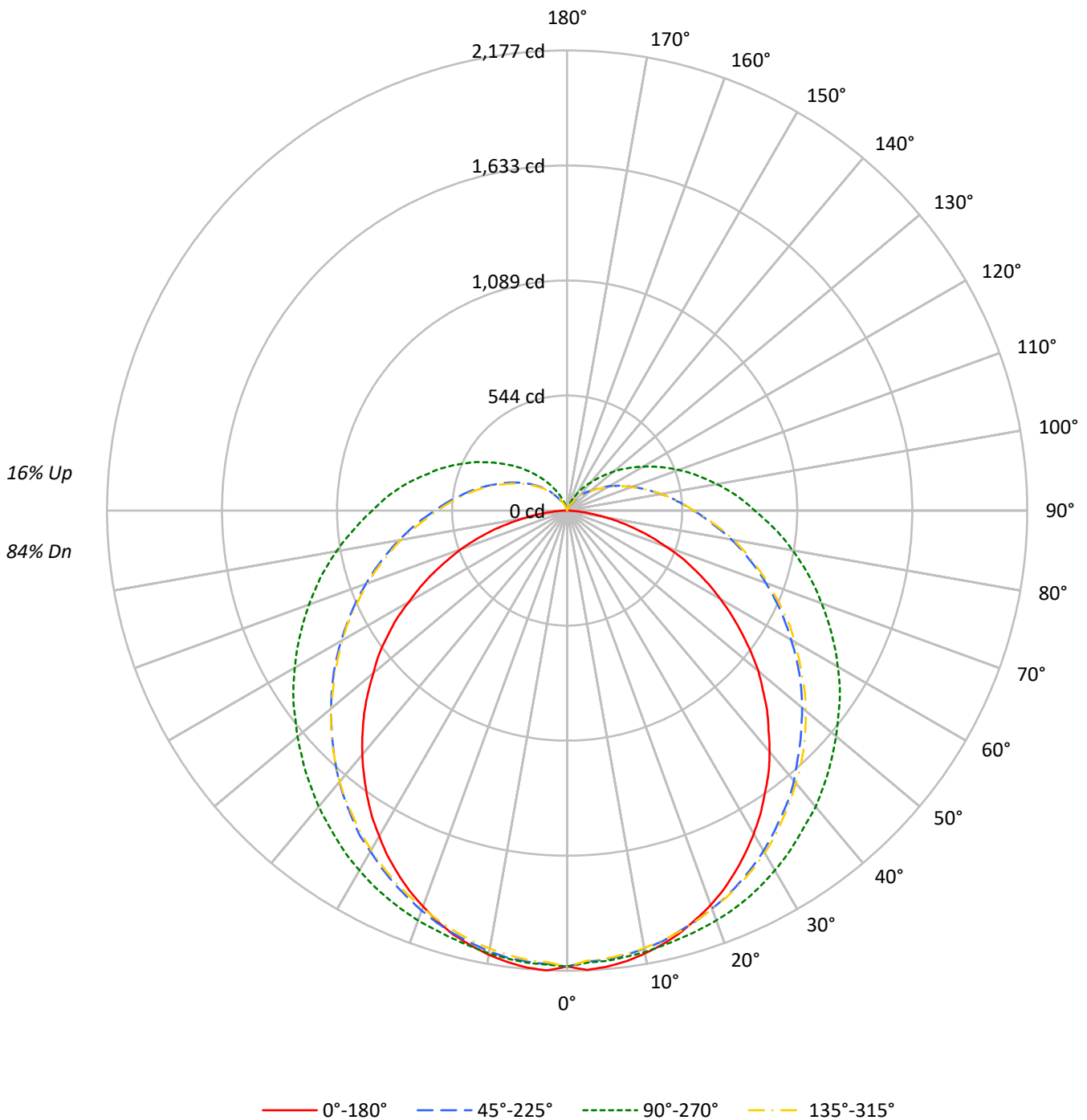
Lumens per Lamp: N/A  
Luminaire Lumens: 9369.9 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

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°	8714	8714	8714	8714
5°	8772	8398	8791	8434
10°	8703	8159	8731	8185
15°	8614	7955	8652	7964
20°	8492	7806	8521	7806
25°	8337	7674	8388	7665
30°	8163	7537	8226	7537
35°	7959	7411	8048	7420
40°	7758	7337	7853	7337
45°	7526	7259	7642	7268
50°	7286	7212	7384	7232
55°	6944	7220	7164	7251
60°	6587	7241	6802	7286
65°	6187	7314	6461	7387
70°	5617	7449	6056	7555
75°	4967	7692	5436	7840
80°	3939	8053	4474	8239
85°	2506	8632	3131	8871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	2.2
10°-20°	587.2	6.3
20°-30°	900.3	9.6
30°-40°	1110.6	11.9
40°-50°	1204.9	12.9
50°-60°	1187.6	12.7
60°-70°	1073.8	11.5
70°-80°	894.5	9.5
80°-90°	692.8	7.4
90°-100°	525.5	5.6
100°-110°	388.8	4.1
110°-120°	270.5	2.9
120°-130°	172.6	1.8
130°-140°	96.8	1.0
140°-150°	44.2	0.5
150°-160°	13.7	0.1
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1691.7	18.1
0°-40°	2802.4	29.9
0°-60°	5194.9	55.4
0°-90°	7856.0	83.8
90°-120°	1184.8	12.6
90°-150°	1498.4	16.0
90°-180°	1514.0	16.2
0°-180°	9369.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2157	2157	2157	2157	2157	
5°	2166	2138	2170	2148	2166	205
15°	2068	2093	2077	2095	2068	583
25°	1884	2022	1895	2020	1884	868
35°	1631	1897	1649	1900	1631	1022
45°	1338	1747	1358	1750	1338	1031
55°	1008	1574	1040	1581	1008	902
65°	669	1381	698	1395	669	663
75°	337	1183	368	1206	337	356
85°	64	985	80	1012	64	77
90°	2	887	4	921	2	3
95°	2	805	2	844	2	2
105°	2	639	2	678	2	2
115°	2	487	2	530	2	2
125°	2	350	2	389	2	2
135°	2	228	2	268	2	2
145°	2	132	2	162	2	1
155°	2	55	2	75	2	1
165°	2	9	2	14	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2174.9	2174.9	2172.6	2168.1	2170.3	2177.2	2172.6	2161.2	2154.4	2136.2	2140.8
5°	2165.8	2165.8	2163.5	2159.0	2161.2	2170.3	2165.8	2156.7	2147.6	2131.7	2138.5
7.5°	2149.9	2149.9	2147.6	2143.0	2147.6	2156.7	2152.1	2143.0	2136.2	2120.3	2127.1
10°	2127.1	2129.4	2127.1	2120.3	2129.4	2138.5	2136.2	2124.8	2118.0	2104.4	2111.2
12.5°	2099.8	2102.1	2099.8	2097.5	2102.1	2115.7	2111.2	2102.1	2097.5	2086.2	2093.0
15°	2068.0	2070.2	2065.7	2065.7	2070.2	2083.9	2083.9	2074.8	2070.2	2058.9	2072.5
17.5°	2027.0	2029.3	2027.0	2027.0	2031.6	2045.2	2047.5	2042.9	2038.4	2033.8	2047.5
20°	1986.1	1983.8	1983.8	1981.5	1990.6	2011.1	2008.8	2008.8	2004.3	2004.3	2020.2
22.5°	1938.3	1938.3	1936.0	1936.0	1947.4	1965.6	1965.6	1970.1	1965.6	1974.7	1988.3
25°	1883.7	1886.0	1883.7	1888.2	1897.3	1917.8	1920.1	1926.9	1929.2	1938.3	1954.2
27.5°	1826.8	1829.1	1826.8	1831.4	1847.3	1863.2	1874.6	1883.7	1886.0	1899.6	1920.1
30°	1765.4	1765.4	1767.7	1772.2	1790.4	1815.4	1824.5	1835.9	1835.9	1858.7	1879.1
32.5°	1701.7	1701.7	1701.7	1710.8	1731.3	1760.8	1772.2	1785.9	1790.4	1813.2	1835.9
35°	1631.2	1633.4	1633.4	1640.3	1667.6	1697.1	1713.1	1729.0	1738.1	1765.4	1788.1
37.5°	1565.2	1569.7	1562.9	1572.0	1610.7	1635.7	1653.9	1669.8	1685.8	1722.2	1740.4
40°	1490.1	1494.7	1492.4	1510.6	1542.4	1574.3	1594.8	1610.7	1633.4	1669.8	1690.3
42.5°	1410.5	1415.0	1419.6	1440.1	1474.2	1506.0	1531.1	1551.5	1578.8	1610.7	1644.8
45°	1337.7	1337.7	1344.5	1369.5	1405.9	1440.1	1469.6	1492.4	1524.2	1558.4	1592.5
47.5°	1255.8	1258.1	1267.2	1296.7	1335.4	1376.4	1403.7	1433.2	1467.4	1503.8	1542.4
50°	1180.7	1180.7	1194.4	1226.2	1262.6	1308.1	1337.7	1371.8	1408.2	1451.4	1490.1
52.5°	1094.3	1098.8	1119.3	1148.9	1196.6	1237.6	1271.7	1308.1	1351.3	1396.8	1440.1
55°	1007.8	1016.9	1032.8	1073.8	1123.8	1162.5	1203.5	1249.0	1289.9	1340.0	1390.0
57.5°	923.6	930.5	955.5	996.4	1048.8	1096.5	1139.8	1183.0	1233.0	1283.1	1335.4
60°	837.2	846.3	875.9	916.8	973.7	1023.7	1073.8	1119.3	1171.6	1223.9	1278.5
62.5°	755.3	762.1	796.2	844.0	900.9	955.5	1005.5	1060.1	1117.0	1167.1	1221.7
65°	668.8	680.2	718.9	762.1	828.1	882.7	939.6	998.7	1057.9	1112.5	1164.8
67.5°	589.2	596.0	637.0	687.0	753.0	814.4	873.6	937.3	998.7	1055.6	1107.9
70°	495.9	518.7	559.6	612.0	682.5	746.2	809.9	875.9	941.8	1001.0	1051.0
72.5°	418.6	436.8	482.3	539.2	607.4	682.5	748.5	819.0	885.0	946.4	998.7
75°	336.7	354.9	407.2	470.9	541.4	621.1	689.3	762.1	830.4	891.8	946.4
77.5°	257.1	279.8	336.7	402.7	480.0	561.9	632.4	705.2	775.8	841.7	896.3
80°	184.3	209.3	270.7	345.8	420.9	502.8	580.1	652.9	723.4	789.4	846.3
82.5°	118.3	145.6	211.6	286.6	366.3	448.2	527.8	600.6	671.1	737.1	796.2
85°	63.7	93.3	161.5	236.6	316.2	398.1	477.7	555.1	623.3	684.8	748.5
87.5°	18.2	54.6	120.6	195.6	277.5	352.6	430.0	507.3	575.6	641.5	698.4
90°	2.3	31.8	91.0	161.5	241.1	313.9	391.3	464.1	532.3	598.3	655.2
92.5°	2.3	20.5	70.5	134.2	207.0	282.1	359.4	430.0	493.7	559.6	616.5
95°	2.3	15.9	56.9	113.7	182.0	252.5	325.3	393.6	459.5	521.0	577.8
97.5°	2.3	11.4	45.5	97.8	159.2	225.2	295.7	364.0	427.7	486.8	539.2
100°	2.3	9.1	36.4	84.2	138.8	202.5	266.2	332.1	393.6	450.4	505.0
102.5°	2.3	6.8	31.8	70.5	122.8	179.7	241.1	302.6	361.7	416.3	470.9
105°	2.3	6.8	27.3	61.4	109.2	161.5	218.4	277.5	332.1	384.5	434.5
107.5°	2.3	4.5	22.7	52.3	95.5	145.6	197.9	254.8	304.8	354.9	402.7
110°	2.3	4.5	18.2	47.8	84.2	129.7	179.7	232.0	279.8	327.6	373.1



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CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.3	4.5	15.9	40.9	72.8	116.0	161.5	209.3	254.8	302.6	343.5
115°	2.3	4.5	13.6	36.4	68.2	100.1	145.6	188.8	234.3	277.5	316.2
117.5°	2.3	4.5	11.4	29.6	59.1	91.0	127.4	170.6	211.6	252.5	288.9
120°	2.3	4.5	9.1	27.3	52.3	81.9	113.7	152.4	191.1	229.8	268.4
122.5°	2.3	2.3	9.1	22.7	45.5	72.8	104.6	134.2	170.6	207.0	241.1
125°	2.3	2.3	9.1	20.5	38.7	66.0	93.3	120.6	152.4	184.3	213.8
127.5°	2.3	2.3	6.8	15.9	34.1	56.9	81.9	111.5	134.2	163.8	193.4
130°	2.3	2.3	6.8	13.6	29.6	47.8	72.8	97.8	125.1	145.6	170.6
132.5°	2.3	2.3	6.8	11.4	22.7	38.7	61.4	84.2	109.2	131.9	152.4
135°	2.3	2.3	4.5	9.1	18.2	31.8	50.0	70.5	95.5	118.3	138.8
137.5°	2.3	2.3	4.5	9.1	13.6	27.3	38.7	56.9	79.6	100.1	120.6
140°	2.3	2.3	4.5	6.8	11.4	20.5	31.8	45.5	63.7	81.9	104.6
142.5°	2.3	2.3	2.3	6.8	9.1	15.9	25.0	36.4	50.0	66.0	84.2
145°	2.3	2.3	2.3	6.8	9.1	11.4	20.5	29.6	38.7	50.0	66.0
147.5°	2.3	2.3	2.3	4.5	6.8	9.1	15.9	22.7	29.6	38.7	47.8
150°	2.3	2.3	2.3	4.5	6.8	9.1	11.4	15.9	22.7	31.8	38.7
152.5°	2.3	2.3	2.3	4.5	4.5	6.8	9.1	11.4	15.9	22.7	27.3
155°	2.3	2.3	2.3	2.3	4.5	6.8	9.1	9.1	11.4	15.9	20.5
157.5°	2.3	2.3	2.3	2.3	4.5	4.5	6.8	6.8	9.1	9.1	13.6
160°	2.3	2.3	2.3	2.3	2.3	4.5	4.5	6.8	6.8	6.8	6.8
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	4.5	6.8	6.8
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	4.5
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2140.8	2143.0	2149.9	2149.9	2145.3	2145.3	2143.0	2140.8	2143.0	2147.6	2147.6
5°	2136.2	2138.5	2145.3	2147.6	2143.0	2140.8	2140.8	2138.5	2140.8	2145.3	2145.3
7.5°	2127.1	2129.4	2136.2	2138.5	2133.9	2133.9	2131.7	2129.4	2133.9	2136.2	2136.2
10°	2113.5	2115.7	2124.8	2127.1	2124.8	2122.6	2122.6	2120.3	2122.6	2127.1	2127.1
12.5°	2095.3	2099.8	2111.2	2111.2	2111.2	2108.9	2108.9	2106.6	2108.9	2113.5	2111.2
15°	2074.8	2083.9	2093.0	2097.5	2097.5	2097.5	2095.3	2093.0	2097.5	2099.8	2097.5
17.5°	2052.0	2063.4	2077.1	2081.6	2081.6	2083.9	2081.6	2079.3	2083.9	2083.9	2081.6
20°	2029.3	2040.7	2054.3	2058.9	2063.4	2065.7	2065.7	2063.4	2065.7	2068.0	2065.7
22.5°	1999.7	2013.4	2029.3	2036.1	2040.7	2045.2	2045.2	2045.2	2047.5	2049.8	2045.2
25°	1967.9	1983.8	2002.0	2008.8	2017.9	2020.2	2022.5	2022.5	2024.7	2027.0	2020.2
27.5°	1933.7	1951.9	1970.1	1981.5	1988.3	1992.9	1992.9	1995.2	1997.4	1999.7	1992.9
30°	1892.8	1920.1	1936.0	1945.1	1954.2	1961.0	1963.3	1965.6	1967.9	1970.1	1963.3
32.5°	1856.4	1879.1	1899.6	1911.0	1922.4	1931.5	1933.7	1933.7	1938.3	1938.3	1931.5
35°	1813.2	1840.5	1860.9	1872.3	1886.0	1892.8	1897.3	1897.3	1901.9	1901.9	1895.1
37.5°	1769.9	1797.2	1820.0	1833.6	1849.6	1858.7	1860.9	1860.9	1865.5	1865.5	1856.4
40°	1724.4	1754.0	1779.0	1795.0	1808.6	1820.0	1822.3	1829.1	1829.1	1826.8	1817.7
42.5°	1678.9	1706.2	1733.5	1751.7	1769.9	1781.3	1785.9	1788.1	1788.1	1785.9	1779.0
45°	1628.9	1660.7	1685.8	1708.5	1726.7	1738.1	1744.9	1747.2	1747.2	1742.6	1735.8
47.5°	1581.1	1613.0	1638.0	1663.0	1681.2	1694.9	1701.7	1704.0	1701.7	1699.4	1692.6
50°	1531.1	1567.5	1592.5	1617.5	1635.7	1647.1	1658.5	1660.7	1658.5	1656.2	1642.5
52.5°	1478.7	1517.4	1544.7	1569.7	1590.2	1603.9	1613.0	1615.2	1615.2	1610.7	1601.6
55°	1426.4	1460.5	1494.7	1522.0	1544.7	1558.4	1569.7	1574.3	1569.7	1565.2	1553.8
57.5°	1378.6	1410.5	1444.6	1474.2	1496.9	1515.1	1524.2	1528.8	1524.2	1517.4	1506.0
60°	1321.8	1355.9	1394.6	1421.9	1446.9	1465.1	1469.6	1478.7	1474.2	1467.4	1456.0
62.5°	1267.2	1308.1	1342.2	1376.4	1396.8	1417.3	1426.4	1431.0	1426.4	1419.6	1408.2
65°	1210.3	1255.8	1289.9	1324.0	1346.8	1367.3	1378.6	1380.9	1376.4	1369.5	1358.2
67.5°	1158.0	1201.2	1237.6	1274.0	1294.5	1314.9	1326.3	1330.9	1326.3	1317.2	1305.8
70°	1105.6	1148.9	1192.1	1219.4	1244.4	1267.2	1274.0	1280.8	1276.3	1267.2	1253.5
72.5°	1053.3	1098.8	1142.0	1169.3	1196.6	1217.1	1226.2	1233.0	1228.5	1219.4	1203.5
75°	998.7	1046.5	1089.7	1119.3	1146.6	1167.1	1176.2	1183.0	1178.4	1169.3	1151.1
77.5°	948.7	996.4	1037.4	1069.2	1096.5	1114.7	1130.7	1132.9	1128.4	1119.3	1101.1
80°	896.3	944.1	987.3	1019.2	1046.5	1064.7	1076.1	1082.9	1078.3	1069.2	1051.0
82.5°	850.8	894.1	937.3	969.1	996.4	1019.2	1028.3	1035.1	1032.8	1019.2	1005.5
85°	800.8	850.8	885.0	919.1	946.4	969.1	976.0	985.1	982.8	971.4	953.2
87.5°	750.7	800.8	841.7	875.9	900.9	919.1	930.5	935.0	932.7	921.4	900.9
90°	709.8	755.3	796.2	832.6	853.1	873.6	885.0	887.2	887.2	873.6	857.7
92.5°	671.1	714.3	755.3	789.4	814.4	832.6	841.7	846.3	844.0	832.6	814.4
95°	627.9	675.7	714.3	748.5	773.5	791.7	800.8	805.3	803.1	791.7	773.5
97.5°	591.5	634.7	673.4	705.2	730.3	748.5	757.6	762.1	762.1	750.7	732.5
100°	555.1	598.3	634.7	666.6	689.3	707.5	716.6	718.9	716.6	707.5	689.3
102.5°	518.7	559.6	596.0	625.6	650.6	666.6	675.7	677.9	677.9	666.6	648.4
105°	482.3	523.2	557.4	589.2	609.7	625.6	632.4	639.3	637.0	627.9	609.7
107.5°	448.2	489.1	521.0	550.5	571.0	586.9	593.8	600.6	598.3	589.2	571.0
110°	416.3	455.0	484.6	514.1	532.3	548.3	559.6	561.9	557.4	548.3	532.3





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	386.7	420.9	450.4	477.7	498.2	509.6	518.7	523.2	518.7	509.6	498.2
115°	354.9	389.0	418.6	443.6	461.8	475.5	482.3	486.8	482.3	473.2	461.8
117.5°	325.3	357.2	386.7	411.8	427.7	439.1	445.9	450.4	445.9	439.1	427.7
120°	300.3	327.6	354.9	377.6	395.8	404.9	411.8	416.3	414.0	404.9	393.6
122.5°	270.7	300.3	325.3	348.1	364.0	373.1	377.6	382.2	379.9	373.1	361.7
125°	245.7	270.7	295.7	316.2	332.1	341.2	345.8	350.3	348.1	341.2	327.6
127.5°	218.4	245.7	266.2	286.6	298.0	311.7	313.9	318.5	316.2	309.4	298.0
130°	197.9	218.4	238.9	257.1	270.7	279.8	284.4	286.6	282.1	277.5	266.2
132.5°	172.9	195.6	213.8	229.8	238.9	248.0	252.5	254.8	254.8	248.0	238.9
135°	154.7	170.6	186.5	202.5	211.6	220.7	225.2	227.5	225.2	220.7	211.6
137.5°	138.8	152.4	163.8	177.4	188.8	193.4	197.9	197.9	195.6	193.4	186.5
140°	120.6	136.5	147.9	157.0	166.1	168.3	172.9	172.9	170.6	168.3	163.8
142.5°	102.4	116.0	127.4	138.8	145.6	150.1	152.4	154.7	152.4	150.1	143.3
145°	81.9	97.8	109.2	116.0	125.1	127.4	129.7	131.9	129.7	127.4	120.6
147.5°	63.7	77.3	88.7	97.8	104.6	106.9	109.2	111.5	109.2	104.6	102.4
150°	45.5	56.9	70.5	79.6	84.2	88.7	88.7	88.7	91.0	86.4	81.9
152.5°	36.4	40.9	50.0	59.1	66.0	68.2	70.5	70.5	68.2	68.2	63.7
155°	25.0	29.6	36.4	43.2	50.0	52.3	54.6	54.6	52.3	52.3	50.0
157.5°	15.9	20.5	25.0	29.6	36.4	38.7	40.9	40.9	40.9	38.7	36.4
160°	9.1	11.4	13.6	18.2	22.7	25.0	27.3	27.3	27.3	27.3	25.0
162.5°	6.8	6.8	6.8	9.1	11.4	13.6	15.9	15.9	15.9	15.9	13.6
165°	4.5	4.5	4.5	4.5	4.5	6.8	9.1	9.1	9.1	9.1	9.1
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-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2145.3	2145.3	2147.6	2143.0	2129.4	2131.7	2131.7	2140.8	2145.3	2147.6	2159.0
5°	2140.8	2140.8	2145.3	2138.5	2127.1	2127.1	2127.1	2136.2	2138.5	2143.0	2152.1
7.5°	2133.9	2133.9	2136.2	2129.4	2115.7	2115.7	2113.5	2122.6	2127.1	2129.4	2138.5
10°	2122.6	2122.6	2124.8	2118.0	2102.1	2102.1	2099.8	2106.6	2108.9	2113.5	2120.3
12.5°	2106.6	2106.6	2106.6	2099.8	2083.9	2081.6	2079.3	2086.2	2086.2	2088.4	2095.3
15°	2093.0	2088.4	2088.4	2081.6	2065.7	2061.1	2056.6	2058.9	2063.4	2061.1	2065.7
17.5°	2077.1	2072.5	2068.0	2061.1	2040.7	2033.8	2029.3	2031.6	2029.3	2027.0	2031.6
20°	2058.9	2052.0	2049.8	2038.4	2017.9	2006.5	1997.4	1992.9	1995.2	1988.3	1990.6
22.5°	2038.4	2029.3	2024.7	2011.1	1990.6	1977.0	1965.6	1956.5	1954.2	1945.1	1947.4
25°	2013.4	2002.0	1995.2	1983.8	1961.0	1945.1	1931.5	1917.8	1911.0	1899.6	1897.3
27.5°	1983.8	1972.4	1963.3	1951.9	1929.2	1908.7	1892.8	1874.6	1865.5	1851.8	1845.0
30°	1954.2	1940.6	1926.9	1917.8	1892.8	1870.0	1845.0	1829.1	1815.4	1799.5	1788.1
32.5°	1917.8	1904.2	1890.5	1876.9	1854.1	1826.8	1806.3	1781.3	1765.4	1747.2	1733.5
35°	1881.4	1863.2	1849.6	1831.4	1810.9	1779.0	1754.0	1729.0	1708.5	1688.0	1672.1
37.5°	1840.5	1826.8	1806.3	1790.4	1765.4	1733.5	1706.2	1674.4	1656.2	1628.9	1608.4
40°	1801.8	1785.9	1765.4	1744.9	1719.9	1683.5	1653.9	1617.5	1597.0	1565.2	1544.7
42.5°	1763.1	1740.4	1719.9	1697.1	1669.8	1635.7	1599.3	1562.9	1535.6	1506.0	1476.5
45°	1719.9	1694.9	1669.8	1644.8	1617.5	1583.4	1544.7	1506.0	1471.9	1444.6	1408.2
47.5°	1674.4	1649.4	1619.8	1592.5	1562.9	1528.8	1487.8	1446.9	1410.5	1378.6	1340.0
50°	1628.9	1603.9	1572.0	1542.4	1508.3	1474.2	1431.0	1383.2	1344.5	1303.6	1269.4
52.5°	1581.1	1556.1	1526.5	1487.8	1451.4	1417.3	1371.8	1321.8	1278.5	1244.4	1201.2
55°	1533.3	1508.3	1474.2	1435.5	1399.1	1355.9	1312.7	1262.6	1214.8	1173.9	1130.7
57.5°	1483.3	1460.5	1421.9	1390.0	1344.5	1299.0	1253.5	1205.7	1153.4	1105.6	1055.6
60°	1433.2	1408.2	1371.8	1333.1	1287.6	1242.1	1194.4	1142.0	1087.4	1035.1	989.6
62.5°	1387.7	1355.9	1321.8	1280.8	1233.0	1189.8	1135.2	1078.3	1023.7	969.1	914.5
65°	1335.4	1301.3	1269.4	1228.5	1178.4	1128.4	1073.8	1016.9	957.8	898.6	844.0
67.5°	1283.1	1249.0	1214.8	1173.9	1121.6	1069.2	1012.4	955.5	889.5	832.6	768.9
70°	1230.8	1203.5	1160.2	1117.0	1069.2	1012.4	955.5	894.1	825.8	764.4	698.4
72.5°	1178.4	1151.1	1107.9	1062.4	1016.9	957.8	896.3	834.9	771.2	700.7	630.2
75°	1128.4	1094.3	1055.6	1012.4	964.6	903.2	841.7	778.0	703.0	637.0	564.2
77.5°	1080.6	1048.8	1010.1	962.3	910.0	850.8	787.1	721.2	646.1	575.6	495.9
80°	1028.3	996.4	957.8	910.0	857.7	800.8	732.5	664.3	591.5	514.1	432.2
82.5°	978.2	948.7	905.4	862.2	805.3	748.5	680.2	612.0	534.6	459.5	379.9
85°	925.9	896.3	855.4	809.9	755.3	693.9	630.2	561.9	484.6	407.2	327.6
87.5°	880.4	846.3	805.3	759.8	705.2	646.1	584.7	511.9	436.8	361.7	279.8
90°	832.6	800.8	759.8	714.3	659.7	600.6	536.9	468.6	395.8	318.5	241.1
92.5°	791.7	757.6	718.9	673.4	618.8	561.9	498.2	430.0	359.4	284.4	209.3
95°	750.7	716.6	680.2	634.7	580.1	523.2	459.5	393.6	325.3	252.5	182.0
97.5°	705.2	675.7	639.3	596.0	541.4	486.8	425.4	361.7	295.7	225.2	159.2
100°	668.8	634.7	600.6	555.1	505.0	452.7	391.3	329.9	266.2	200.2	138.8
102.5°	627.9	596.0	561.9	518.7	468.6	416.3	359.4	300.3	241.1	179.7	120.6
105°	589.2	559.6	523.2	482.3	434.5	384.5	329.9	275.3	218.4	159.2	106.9
107.5°	550.5	521.0	486.8	448.2	402.7	352.6	302.6	248.0	195.6	143.3	95.5
110°	511.9	484.6	452.7	414.0	370.8	325.3	277.5	227.5	175.2	127.4	84.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	477.7	450.4	418.6	382.2	341.2	298.0	252.5	204.7	157.0	113.7	72.8
115°	443.6	418.6	386.7	354.9	313.9	273.0	229.8	184.3	141.0	102.4	63.7
117.5°	409.5	384.5	354.9	323.0	286.6	248.0	207.0	163.8	127.4	91.0	56.9
120°	375.4	352.6	325.3	295.7	263.9	225.2	184.3	147.9	113.7	79.6	50.0
122.5°	343.5	323.0	298.0	270.7	236.6	200.2	166.1	134.2	102.4	70.5	40.9
125°	313.9	293.5	270.7	243.4	211.6	179.7	150.1	120.6	88.7	61.4	34.1
127.5°	284.4	263.9	241.1	216.1	191.1	161.5	134.2	106.9	79.6	54.6	29.6
130°	254.8	236.6	216.1	195.6	170.6	143.3	120.6	93.3	68.2	43.2	25.0
132.5°	225.2	211.6	193.4	172.9	150.1	129.7	104.6	81.9	59.1	38.7	22.7
135°	200.2	186.5	170.6	152.4	134.2	113.7	91.0	70.5	50.0	31.8	18.2
137.5°	177.4	166.1	150.1	134.2	118.3	97.8	79.6	59.1	40.9	27.3	13.6
140°	157.0	145.6	131.9	116.0	102.4	84.2	66.0	47.8	36.4	22.7	11.4
142.5°	136.5	125.1	113.7	100.1	86.4	70.5	54.6	40.9	29.6	18.2	11.4
145°	116.0	106.9	95.5	84.2	70.5	56.9	45.5	34.1	22.7	13.6	9.1
147.5°	95.5	88.7	77.3	68.2	56.9	45.5	36.4	27.3	18.2	11.4	6.8
150°	77.3	70.5	61.4	52.3	45.5	36.4	29.6	20.5	13.6	11.4	6.8
152.5°	59.1	54.6	47.8	43.2	36.4	27.3	20.5	15.9	11.4	9.1	4.5
155°	47.8	43.2	38.7	31.8	27.3	20.5	15.9	11.4	9.1	6.8	4.5
157.5°	34.1	31.8	27.3	22.7	18.2	13.6	11.4	11.4	6.8	4.5	2.3
160°	22.7	20.5	18.2	13.6	11.4	11.4	9.1	6.8	4.5	4.5	2.3
162.5°	13.6	11.4	11.4	11.4	9.1	9.1	6.8	4.5	4.5	2.3	2.3
165°	9.1	9.1	9.1	6.8	6.8	6.8	4.5	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2159.0	2152.1	2161.2	2177.2	2179.4	2177.2	2172.6	2179.4	2188.5	2186.3	2170.3
5°	2154.4	2145.3	2154.4	2170.3	2170.3	2168.1	2165.8	2172.6	2181.7	2179.4	2165.8
7.5°	2140.8	2131.7	2140.8	2154.4	2156.7	2152.1	2152.1	2159.0	2168.1	2165.8	2154.4
10°	2122.6	2113.5	2118.0	2133.9	2138.5	2133.9	2133.9	2140.8	2152.1	2149.9	2136.2
12.5°	2095.3	2088.4	2093.0	2106.6	2111.2	2108.9	2106.6	2115.7	2127.1	2127.1	2113.5
15°	2065.7	2056.6	2061.1	2077.1	2079.3	2074.8	2077.1	2083.9	2097.5	2097.5	2086.2
17.5°	2031.6	2020.2	2027.0	2038.4	2040.7	2040.7	2040.7	2049.8	2065.7	2063.4	2054.3
20°	1992.9	1977.0	1981.5	1992.9	1997.4	1997.4	1997.4	2013.4	2024.7	2024.7	2015.6
22.5°	1947.4	1936.0	1936.0	1947.4	1954.2	1951.9	1951.9	1965.6	1981.5	1979.2	1979.2
25°	1895.1	1886.0	1881.4	1895.1	1897.3	1899.6	1904.2	1917.8	1936.0	1936.0	1938.3
27.5°	1840.5	1831.4	1829.1	1840.5	1842.7	1845.0	1849.6	1865.5	1883.7	1886.0	1890.5
30°	1788.1	1774.5	1769.9	1779.0	1783.6	1785.9	1785.9	1810.9	1826.8	1833.6	1842.7
32.5°	1726.7	1713.1	1701.7	1717.6	1719.9	1724.4	1726.7	1751.7	1769.9	1781.3	1795.0
35°	1665.3	1642.5	1638.0	1649.4	1653.9	1656.2	1660.7	1688.0	1713.1	1722.2	1740.4
37.5°	1597.0	1581.1	1567.5	1578.8	1583.4	1585.7	1599.3	1624.3	1649.4	1663.0	1681.2
40°	1533.3	1512.9	1501.5	1508.3	1512.9	1515.1	1531.1	1558.4	1587.9	1603.9	1626.6
42.5°	1462.8	1435.5	1426.4	1433.2	1435.5	1442.3	1456.0	1492.4	1522.0	1544.7	1562.9
45°	1392.3	1371.8	1351.3	1358.2	1360.4	1365.0	1385.5	1424.1	1456.0	1483.3	1503.8
47.5°	1319.5	1294.5	1274.0	1278.5	1287.6	1289.9	1312.7	1358.2	1387.7	1417.3	1444.6
50°	1246.7	1212.6	1196.6	1196.6	1201.2	1212.6	1242.1	1287.6	1319.5	1353.6	1383.2
52.5°	1171.6	1139.8	1121.6	1123.8	1128.4	1142.0	1169.3	1214.8	1251.2	1287.6	1324.0
55°	1096.5	1062.4	1044.2	1039.7	1044.2	1062.4	1094.3	1142.0	1178.4	1221.7	1260.3
57.5°	1021.5	980.5	964.6	957.8	962.3	985.1	1016.9	1067.0	1112.5	1153.4	1198.9
60°	939.6	907.7	880.4	864.5	875.9	905.4	939.6	991.9	1039.7	1085.2	1135.2
62.5°	869.0	828.1	798.5	782.6	794.0	819.0	866.8	916.8	969.1	1021.5	1071.5
65°	789.4	748.5	714.3	698.4	709.8	739.4	787.1	841.7	898.6	950.9	1010.1
67.5°	712.1	668.8	627.9	612.0	625.6	657.5	709.8	771.2	832.6	887.2	950.9
70°	637.0	589.2	546.0	534.6	543.7	586.9	637.0	698.4	762.1	825.8	891.8
72.5°	568.7	509.6	464.1	450.4	461.8	509.6	566.5	630.2	698.4	766.7	837.2
75°	489.1	434.5	384.5	368.5	382.2	425.4	495.9	564.2	637.0	709.8	775.8
77.5°	425.4	361.7	309.4	284.4	307.1	361.7	430.0	502.8	577.8	652.9	728.0
80°	359.4	293.5	236.6	209.3	234.3	293.5	361.7	441.3	525.5	600.6	668.8
82.5°	300.3	229.8	170.6	141.0	168.3	234.3	309.4	389.0	470.9	546.0	625.6
85°	245.7	172.9	111.5	79.6	118.3	177.4	257.1	339.0	423.1	500.5	577.8
87.5°	200.2	129.7	68.2	34.1	72.8	138.8	213.8	295.7	379.9	457.3	530.1
90°	163.8	93.3	36.4	4.5	43.2	104.6	177.4	257.1	336.7	416.3	489.1
92.5°	134.2	70.5	20.5	2.3	27.3	84.2	152.4	227.5	304.8	382.2	452.7
95°	111.5	54.6	13.6	2.3	20.5	66.0	129.7	202.5	275.3	350.3	420.9
97.5°	95.5	45.5	11.4	2.3	15.9	56.9	111.5	179.7	250.2	320.8	389.0
100°	81.9	36.4	9.1	2.3	13.6	47.8	97.8	159.2	225.2	293.5	359.4
102.5°	70.5	29.6	6.8	2.3	11.4	40.9	86.4	143.3	202.5	268.4	332.1
105°	61.4	25.0	6.8	2.3	9.1	36.4	77.3	127.4	186.5	245.7	307.1
107.5°	52.3	20.5	4.5	2.3	6.8	29.6	68.2	116.0	168.3	225.2	282.1
110°	45.5	18.2	4.5	2.3	6.8	27.3	59.1	104.6	152.4	204.7	259.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	38.7	13.6	4.5	2.3	4.5	22.7	52.3	93.3	138.8	186.5	238.9
115°	34.1	11.4	2.3	2.3	4.5	20.5	47.8	84.2	125.1	170.6	218.4
117.5°	27.3	9.1	2.3	2.3	2.3	15.9	40.9	75.1	113.7	157.0	200.2
120°	22.7	9.1	2.3	2.3	2.3	13.6	36.4	66.0	102.4	141.0	182.0
122.5°	20.5	6.8	2.3	2.3	2.3	11.4	31.8	59.1	91.0	127.4	166.1
125°	18.2	6.8	2.3	2.3	2.3	9.1	27.3	52.3	81.9	113.7	150.1
127.5°	13.6	6.8	2.3	2.3	2.3	6.8	25.0	45.5	72.8	102.4	134.2
130°	11.4	4.5	2.3	2.3	2.3	6.8	20.5	40.9	63.7	91.0	120.6
132.5°	9.1	4.5	2.3	2.3	2.3	4.5	15.9	31.8	54.6	79.6	106.9
135°	9.1	4.5	2.3	2.3	2.3	4.5	11.4	27.3	45.5	68.2	91.0
137.5°	9.1	2.3	2.3	2.3	2.3	4.5	9.1	20.5	36.4	54.6	75.1
140°	6.8	2.3	2.3	2.3	2.3	2.3	6.8	15.9	29.6	45.5	63.7
142.5°	6.8	2.3	2.3	2.3	2.3	2.3	6.8	11.4	22.7	36.4	50.0
145°	4.5	2.3	2.3	2.3	2.3	2.3	4.5	9.1	18.2	27.3	40.9
147.5°	4.5	2.3	2.3	2.3	2.3	2.3	4.5	6.8	13.6	22.7	31.8
150°	4.5	2.3	2.3	2.3	2.3	2.3	4.5	6.8	9.1	15.9	25.0
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	6.8	11.4	15.9
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	9.1	11.4
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	6.8	9.1
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	6.8
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2163.5	2147.6	2152.1	2149.9	2154.4	2161.2	2161.2	2159.0	2159.0	2154.4	2149.9
5°	2159.0	2143.0	2149.9	2147.6	2152.1	2159.0	2159.0	2156.7	2156.7	2149.9	2147.6
7.5°	2145.3	2133.9	2138.5	2138.5	2143.0	2149.9	2149.9	2147.6	2147.6	2140.8	2138.5
10°	2131.7	2118.0	2124.8	2124.8	2129.4	2138.5	2138.5	2136.2	2136.2	2129.4	2127.1
12.5°	2108.9	2095.3	2106.6	2108.9	2113.5	2122.6	2120.3	2120.3	2120.3	2113.5	2111.2
15°	2081.6	2072.5	2083.9	2086.2	2093.0	2104.4	2104.4	2104.4	2104.4	2097.5	2095.3
17.5°	2052.0	2045.2	2056.6	2061.1	2070.2	2081.6	2081.6	2083.9	2086.2	2081.6	2079.3
20°	2017.9	2013.4	2024.7	2033.8	2047.5	2058.9	2063.4	2065.7	2070.2	2065.7	2063.4
22.5°	1979.2	1979.2	1995.2	2004.3	2020.2	2031.6	2038.4	2045.2	2049.8	2045.2	2042.9
25°	1936.0	1942.8	1958.8	1974.7	1992.9	2004.3	2011.1	2020.2	2024.7	2022.5	2020.2
27.5°	1895.1	1904.2	1924.6	1940.6	1956.5	1974.7	1981.5	1992.9	1997.4	1997.4	1995.2
30°	1847.3	1860.9	1883.7	1901.9	1922.4	1940.6	1949.7	1961.0	1967.9	1963.3	1965.6
32.5°	1801.8	1824.5	1842.7	1863.2	1886.0	1904.2	1915.5	1929.2	1936.0	1933.7	1936.0
35°	1751.7	1774.5	1799.5	1820.0	1847.3	1865.5	1881.4	1892.8	1901.9	1899.6	1899.6
37.5°	1697.1	1726.7	1751.7	1779.0	1804.1	1824.5	1840.5	1854.1	1863.2	1863.2	1863.2
40°	1644.8	1676.7	1701.7	1733.5	1765.4	1783.6	1801.8	1815.4	1824.5	1826.8	1829.1
42.5°	1587.9	1622.1	1651.6	1685.8	1717.6	1740.4	1760.8	1776.8	1785.9	1790.4	1788.1
45°	1535.6	1567.5	1601.6	1640.3	1669.8	1692.6	1717.6	1735.8	1744.9	1747.2	1749.5
47.5°	1476.5	1512.9	1551.5	1590.2	1619.8	1649.4	1672.1	1690.3	1699.4	1706.2	1706.2
50°	1419.6	1458.3	1501.5	1542.4	1574.3	1603.9	1626.6	1647.1	1658.5	1663.0	1665.3
52.5°	1367.3	1403.7	1449.2	1490.1	1522.0	1551.5	1581.1	1603.9	1615.2	1619.8	1619.8
55°	1303.6	1349.1	1399.1	1437.8	1471.9	1506.0	1535.6	1558.4	1569.7	1576.6	1581.1
57.5°	1244.4	1292.2	1344.5	1385.5	1426.4	1458.3	1485.6	1515.1	1524.2	1533.3	1535.6
60°	1187.5	1235.3	1285.4	1330.9	1371.8	1405.9	1437.8	1462.8	1478.7	1483.3	1487.8
62.5°	1128.4	1178.4	1230.8	1276.3	1319.5	1360.4	1390.0	1412.8	1431.0	1437.8	1442.3
65°	1071.5	1123.8	1176.2	1223.9	1269.4	1310.4	1340.0	1362.7	1380.9	1392.3	1394.6
67.5°	1010.1	1067.0	1121.6	1171.6	1217.1	1260.3	1289.9	1312.7	1330.9	1344.5	1346.8
70°	953.2	1012.4	1067.0	1121.6	1167.1	1210.3	1242.1	1264.9	1285.4	1294.5	1299.0
72.5°	898.6	960.0	1016.9	1071.5	1117.0	1160.2	1194.4	1217.1	1237.6	1249.0	1251.2
75°	846.3	907.7	969.1	1021.5	1069.2	1112.5	1146.6	1171.6	1189.8	1201.2	1205.7
77.5°	794.0	857.7	919.1	971.4	1021.5	1064.7	1094.3	1123.8	1142.0	1155.7	1155.7
80°	741.6	807.6	871.3	923.6	973.7	1012.4	1046.5	1076.1	1094.3	1107.9	1107.9
82.5°	696.1	759.8	821.3	873.6	923.6	966.9	1001.0	1028.3	1048.8	1057.9	1060.1
85°	643.8	714.3	771.2	828.1	875.9	916.8	950.9	980.5	998.7	1007.8	1012.4
87.5°	600.6	668.8	730.3	780.3	828.1	869.0	907.7	932.7	950.9	962.3	966.9
90°	559.6	625.6	687.0	737.1	787.1	825.8	862.2	887.2	907.7	916.8	921.4
92.5°	523.2	589.2	648.4	698.4	746.2	789.4	823.5	848.6	866.8	875.9	882.7
95°	489.1	552.8	609.7	664.3	709.8	748.5	784.9	809.9	830.4	837.2	844.0
97.5°	455.0	516.4	573.3	625.6	673.4	709.8	743.9	768.9	784.9	796.2	803.1
100°	425.4	484.6	539.2	589.2	634.7	668.8	705.2	728.0	743.9	753.0	762.1
102.5°	393.6	452.7	505.0	552.8	600.6	632.4	666.6	689.3	703.0	718.9	718.9
105°	366.3	420.9	473.2	518.7	559.6	598.3	627.9	650.6	666.6	677.9	677.9
107.5°	336.7	391.3	441.3	489.1	527.8	564.2	591.5	612.0	630.2	637.0	643.8
110°	313.9	361.7	411.8	457.3	493.7	527.8	555.1	577.8	593.8	600.6	605.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	286.6	336.7	382.2	425.4	461.8	493.7	521.0	539.2	555.1	564.2	566.5
115°	263.9	311.7	352.6	393.6	432.2	459.5	484.6	502.8	518.7	525.5	530.1
117.5°	243.4	286.6	327.6	361.7	398.1	427.7	452.7	468.6	482.3	491.4	495.9
120°	222.9	263.9	300.3	334.4	368.5	395.8	418.6	434.5	450.4	457.3	457.3
122.5°	202.5	241.1	275.3	307.1	339.0	364.0	389.0	402.7	416.3	423.1	423.1
125°	184.3	220.7	252.5	282.1	311.7	334.4	354.9	370.8	384.5	389.0	389.0
127.5°	166.1	200.2	229.8	257.1	282.1	304.8	325.3	341.2	352.6	357.2	357.2
130°	150.1	179.7	207.0	234.3	259.3	277.5	298.0	311.7	318.5	325.3	327.6
132.5°	134.2	161.5	186.5	209.3	234.3	252.5	268.4	282.1	288.9	295.7	298.0
135°	118.3	143.3	166.1	188.8	209.3	227.5	241.1	252.5	261.6	266.2	268.4
137.5°	100.1	127.4	147.9	166.1	188.8	202.5	218.4	225.2	234.3	238.9	238.9
140°	84.2	104.6	127.4	145.6	163.8	177.4	191.1	202.5	209.3	211.6	211.6
142.5°	68.2	86.4	104.6	127.4	143.3	154.7	168.3	177.4	182.0	184.3	186.5
145°	54.6	68.2	84.2	104.6	122.8	136.5	143.3	152.4	157.0	159.2	161.5
147.5°	40.9	54.6	68.2	81.9	100.1	113.7	120.6	129.7	134.2	136.5	136.5
150°	31.8	40.9	50.0	63.7	77.3	93.3	102.4	109.2	111.5	113.7	113.7
152.5°	22.7	31.8	38.7	47.8	56.9	70.5	84.2	88.7	91.0	93.3	93.3
155°	15.9	22.7	27.3	34.1	40.9	52.3	63.7	70.5	72.8	75.1	75.1
157.5°	11.4	15.9	18.2	25.0	29.6	34.1	43.2	54.6	56.9	56.9	56.9
160°	6.8	9.1	11.4	15.9	18.2	22.7	27.3	34.1	40.9	40.9	40.9
162.5°	4.5	6.8	6.8	9.1	9.1	13.6	15.9	18.2	25.0	27.3	27.3
165°	2.3	4.5	4.5	4.5	4.5	4.5	6.8	6.8	11.4	13.6	13.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2152.1	2156.7	2154.4	2154.4	2154.4	2159.0	2154.4	2133.9	2138.5	2143.0	2147.6
5°	2149.9	2152.1	2152.1	2149.9	2149.9	2154.4	2149.9	2129.4	2133.9	2138.5	2140.8
7.5°	2140.8	2143.0	2143.0	2143.0	2140.8	2145.3	2138.5	2120.3	2120.3	2124.8	2127.1
10°	2129.4	2133.9	2131.7	2129.4	2129.4	2129.4	2124.8	2104.4	2104.4	2106.6	2108.9
12.5°	2115.7	2115.7	2115.7	2113.5	2111.2	2111.2	2106.6	2086.2	2083.9	2088.4	2086.2
15°	2097.5	2102.1	2097.5	2095.3	2090.7	2090.7	2083.9	2063.4	2058.9	2061.1	2058.9
17.5°	2081.6	2083.9	2079.3	2074.8	2070.2	2068.0	2061.1	2038.4	2031.6	2033.8	2029.3
20°	2065.7	2065.7	2061.1	2056.6	2049.8	2042.9	2033.8	2011.1	1999.7	1999.7	1990.6
22.5°	2045.2	2045.2	2040.7	2033.8	2027.0	2017.9	2008.8	1986.1	1967.9	1963.3	1956.5
25°	2022.5	2020.2	2017.9	2011.1	1997.4	1988.3	1979.2	1954.2	1933.7	1924.6	1913.3
27.5°	1995.2	1995.2	1988.3	1981.5	1967.9	1956.5	1945.1	1922.4	1895.1	1883.7	1867.8
30°	1965.6	1965.6	1958.8	1949.7	1936.0	1922.4	1908.7	1881.4	1854.1	1838.2	1820.0
32.5°	1936.0	1933.7	1926.9	1917.8	1904.2	1883.7	1872.3	1845.0	1813.2	1795.0	1769.9
35°	1899.6	1897.3	1890.5	1879.1	1860.9	1845.0	1826.8	1801.8	1765.4	1742.6	1715.3
37.5°	1863.2	1860.9	1856.4	1840.5	1822.3	1804.1	1781.3	1756.3	1722.2	1692.6	1665.3
40°	1826.8	1824.5	1815.4	1804.1	1781.3	1758.6	1735.8	1710.8	1674.4	1640.3	1610.7
42.5°	1788.1	1785.9	1774.5	1760.8	1735.8	1713.1	1685.8	1658.5	1622.1	1581.1	1551.5
45°	1749.5	1744.9	1733.5	1717.6	1690.3	1665.3	1638.0	1606.1	1569.7	1531.1	1492.4
47.5°	1708.5	1701.7	1690.3	1667.6	1644.8	1617.5	1585.7	1551.5	1515.1	1471.9	1431.0
50°	1663.0	1658.5	1644.8	1624.3	1597.0	1569.7	1533.3	1499.2	1456.0	1415.0	1365.0
52.5°	1619.8	1610.7	1599.3	1576.6	1549.3	1519.7	1481.0	1440.1	1396.8	1358.2	1305.8
55°	1574.3	1569.7	1553.8	1535.6	1501.5	1467.4	1431.0	1387.7	1340.0	1294.5	1244.4
57.5°	1531.1	1522.0	1508.3	1483.3	1453.7	1419.6	1380.9	1335.4	1283.1	1235.3	1180.7
60°	1487.8	1474.2	1458.3	1435.5	1403.7	1367.3	1326.3	1278.5	1226.2	1173.9	1117.0
62.5°	1440.1	1428.7	1410.5	1387.7	1355.9	1317.2	1274.0	1223.9	1173.9	1119.3	1057.9
65°	1392.3	1380.9	1362.7	1340.0	1308.1	1264.9	1219.4	1169.3	1112.5	1060.1	994.2
67.5°	1344.5	1333.1	1312.7	1287.6	1255.8	1214.8	1167.1	1114.7	1057.9	1001.0	932.7
70°	1296.7	1283.1	1264.9	1237.6	1205.7	1162.5	1114.7	1060.1	1003.3	941.8	873.6
72.5°	1249.0	1237.6	1214.8	1189.8	1155.7	1112.5	1064.7	1010.1	950.9	887.2	819.0
75°	1201.2	1187.5	1171.6	1142.0	1105.6	1064.7	1014.6	960.0	896.3	834.9	764.4
77.5°	1153.4	1142.0	1121.6	1092.0	1057.9	1014.6	964.6	910.0	846.3	782.6	707.5
80°	1105.6	1092.0	1076.1	1048.8	1010.1	966.9	914.5	859.9	796.2	730.3	655.2
82.5°	1057.9	1044.2	1026.0	998.7	962.3	919.1	869.0	809.9	746.2	677.9	607.4
85°	1010.1	998.7	978.2	950.9	912.3	869.0	819.0	766.7	698.4	630.2	559.6
87.5°	962.3	950.9	930.5	903.2	866.8	823.5	773.5	718.9	652.9	589.2	511.9
90°	916.8	907.7	887.2	859.9	823.5	780.3	734.8	675.7	612.0	548.3	475.5
92.5°	875.9	866.8	848.6	821.3	789.4	741.6	696.1	639.3	575.6	509.6	439.1
95°	839.5	828.1	809.9	784.9	746.2	705.2	659.7	602.9	541.4	475.5	407.2
97.5°	798.5	787.1	768.9	741.6	709.8	666.6	621.1	566.5	505.0	443.6	375.4
100°	757.6	746.2	725.7	703.0	671.1	627.9	584.7	530.1	473.2	414.0	348.1
102.5°	716.6	705.2	687.0	664.3	632.4	593.8	550.5	498.2	441.3	382.2	320.8
105°	677.9	666.6	648.4	625.6	596.0	557.4	511.9	466.4	411.8	354.9	295.7
107.5°	639.3	627.9	612.0	589.2	559.6	523.2	480.0	432.2	382.2	327.6	270.7
110°	600.6	591.5	573.3	552.8	523.2	486.8	448.2	402.7	352.6	302.6	248.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	564.2	555.1	536.9	514.1	489.1	455.0	416.3	373.1	325.3	277.5	225.2
115°	527.8	516.4	500.5	480.0	455.0	423.1	386.7	348.1	300.3	254.8	207.0
117.5°	491.4	482.3	466.4	445.9	423.1	391.3	357.2	320.8	275.3	232.0	188.8
120°	455.0	448.2	432.2	414.0	391.3	361.7	329.9	293.5	252.5	211.6	170.6
122.5°	420.9	414.0	398.1	382.2	359.4	332.1	302.6	268.4	232.0	193.4	157.0
125°	389.0	379.9	366.3	350.3	329.9	304.8	275.3	243.4	209.3	175.2	141.0
127.5°	354.9	348.1	339.0	320.8	300.3	277.5	250.2	222.9	191.1	159.2	127.4
130°	327.6	318.5	307.1	293.5	275.3	252.5	227.5	200.2	172.9	143.3	111.5
132.5°	295.7	286.6	277.5	263.9	248.0	227.5	204.7	179.7	154.7	127.4	100.1
135°	266.2	259.3	250.2	236.6	220.7	204.7	182.0	159.2	136.5	111.5	88.7
137.5°	238.9	232.0	222.9	213.8	197.9	182.0	161.5	141.0	120.6	97.8	77.3
140°	211.6	207.0	197.9	188.8	175.2	159.2	141.0	122.8	104.6	84.2	66.0
142.5°	184.3	179.7	172.9	163.8	152.4	138.8	122.8	106.9	88.7	72.8	56.9
145°	159.2	157.0	150.1	141.0	131.9	118.3	104.6	91.0	75.1	61.4	45.5
147.5°	134.2	131.9	127.4	120.6	111.5	100.1	88.7	75.1	63.7	50.0	36.4
150°	111.5	109.2	106.9	97.8	93.3	81.9	72.8	61.4	52.3	38.7	29.6
152.5°	91.0	91.0	86.4	79.6	75.1	66.0	59.1	50.0	40.9	31.8	22.7
155°	72.8	70.5	68.2	63.7	59.1	52.3	45.5	38.7	31.8	22.7	15.9
157.5°	56.9	54.6	52.3	47.8	43.2	40.9	34.1	27.3	20.5	15.9	11.4
160°	40.9	38.7	36.4	34.1	31.8	27.3	22.7	18.2	13.6	9.1	6.8
162.5°	27.3	25.0	25.0	22.7	20.5	15.9	13.6	11.4	9.1	6.8	4.5
165°	13.6	13.6	11.4	11.4	9.1	6.8	6.8	6.8	4.5	4.5	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2145.3	2145.3	2154.4	2152.1	2145.3	2159.0	2174.9
5°	2138.5	2138.5	2145.3	2145.3	2138.5	2152.1	2165.8
7.5°	2127.1	2124.8	2131.7	2131.7	2122.6	2133.9	2149.9
10°	2106.6	2104.4	2111.2	2111.2	2102.1	2113.5	2127.1
12.5°	2083.9	2079.3	2086.2	2083.9	2074.8	2086.2	2099.8
15°	2054.3	2052.0	2056.6	2052.0	2042.9	2054.3	2068.0
17.5°	2024.7	2017.9	2020.2	2020.2	2004.3	2015.6	2027.0
20°	1986.1	1977.0	1979.2	1977.0	1965.6	1972.4	1986.1
22.5°	1947.4	1933.7	1933.7	1931.5	1917.8	1926.9	1938.3
25°	1899.6	1883.7	1883.7	1881.4	1865.5	1872.3	1883.7
27.5°	1851.8	1835.9	1829.1	1826.8	1810.9	1810.9	1826.8
30°	1801.8	1779.0	1774.5	1767.7	1751.7	1751.7	1765.4
32.5°	1754.0	1722.2	1713.1	1704.0	1688.0	1685.8	1701.7
35°	1690.3	1665.3	1649.4	1640.3	1622.1	1617.5	1631.2
37.5°	1638.0	1606.1	1583.4	1572.0	1553.8	1547.0	1565.2
40°	1581.1	1547.0	1517.4	1510.6	1483.3	1474.2	1490.1
42.5°	1517.4	1481.0	1451.4	1437.8	1417.3	1408.2	1410.5
45°	1453.7	1415.0	1383.2	1365.0	1344.5	1328.6	1337.7
47.5°	1387.7	1353.6	1314.9	1287.6	1262.6	1251.2	1255.8
50°	1321.8	1280.8	1244.4	1214.8	1185.3	1171.6	1180.7
52.5°	1255.8	1212.6	1171.6	1139.8	1105.6	1092.0	1094.3
55°	1192.1	1146.6	1098.8	1064.7	1032.8	1012.4	1007.8
57.5°	1128.4	1078.3	1028.3	989.6	948.7	930.5	923.6
60°	1060.1	1007.8	955.5	910.0	866.8	846.3	837.2
62.5°	996.4	939.6	880.4	832.6	789.4	762.1	755.3
65°	935.0	869.0	809.9	755.3	707.5	677.9	668.8
67.5°	869.0	800.8	737.1	677.9	632.4	593.8	589.2
70°	807.6	734.8	664.3	602.9	552.8	514.1	495.9
72.5°	746.2	671.1	598.3	532.3	468.6	432.2	418.6
75°	687.0	609.7	532.3	464.1	393.6	350.3	336.7
77.5°	632.4	552.8	470.9	395.8	329.9	275.3	257.1
80°	580.1	498.2	411.8	334.4	263.9	204.7	184.3
82.5°	525.5	448.2	359.4	277.5	204.7	143.3	118.3
85°	477.7	400.4	311.7	229.8	157.0	91.0	63.7
87.5°	439.1	354.9	275.3	193.4	118.3	52.3	18.2
90°	400.4	318.5	238.9	159.2	88.7	29.6	2.3
92.5°	366.3	288.9	209.3	136.5	68.2	20.5	2.3
95°	334.4	259.3	184.3	113.7	54.6	13.6	2.3
97.5°	304.8	234.3	163.8	97.8	45.5	11.4	2.3
100°	279.8	211.6	145.6	86.4	38.7	9.1	2.3
102.5°	254.8	191.1	129.7	75.1	34.1	6.8	2.3
105°	234.3	172.9	116.0	68.2	29.6	6.8	2.3
107.5°	213.8	157.0	104.6	59.1	25.0	4.5	2.3
110°	193.4	143.3	93.3	52.3	22.7	4.5	2.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	177.4	129.7	84.2	47.8	18.2	4.5	2.3
115°	161.5	116.0	75.1	40.9	15.9	2.3	2.3
117.5°	145.6	104.6	66.0	36.4	13.6	2.3	2.3
120°	131.9	93.3	59.1	31.8	11.4	2.3	2.3
122.5°	118.3	84.2	52.3	27.3	9.1	2.3	2.3
125°	106.9	75.1	45.5	22.7	6.8	2.3	2.3
127.5°	95.5	66.0	40.9	20.5	6.8	2.3	2.3
130°	84.2	59.1	34.1	15.9	4.5	2.3	2.3
132.5°	75.1	50.0	29.6	13.6	4.5	2.3	2.3
135°	66.0	43.2	25.0	9.1	4.5	2.3	2.3
137.5°	56.9	36.4	20.5	6.8	2.3	2.3	2.3
140°	47.8	31.8	15.9	6.8	2.3	2.3	2.3
142.5°	40.9	25.0	11.4	4.5	2.3	2.3	2.3
145°	31.8	20.5	9.1	4.5	2.3	2.3	2.3
147.5°	25.0	15.9	6.8	4.5	2.3	2.3	2.3
150°	18.2	11.4	6.8	2.3	2.3	2.3	2.3
152.5°	13.6	9.1	4.5	2.3	2.3	2.3	2.3
155°	9.1	6.8	4.5	2.3	2.3	2.3	2.3
157.5°	6.8	4.5	2.3	2.3	2.3	2.3	2.3
160°	4.5	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)