

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-LD5-130HL-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-LD5-130HL-LW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

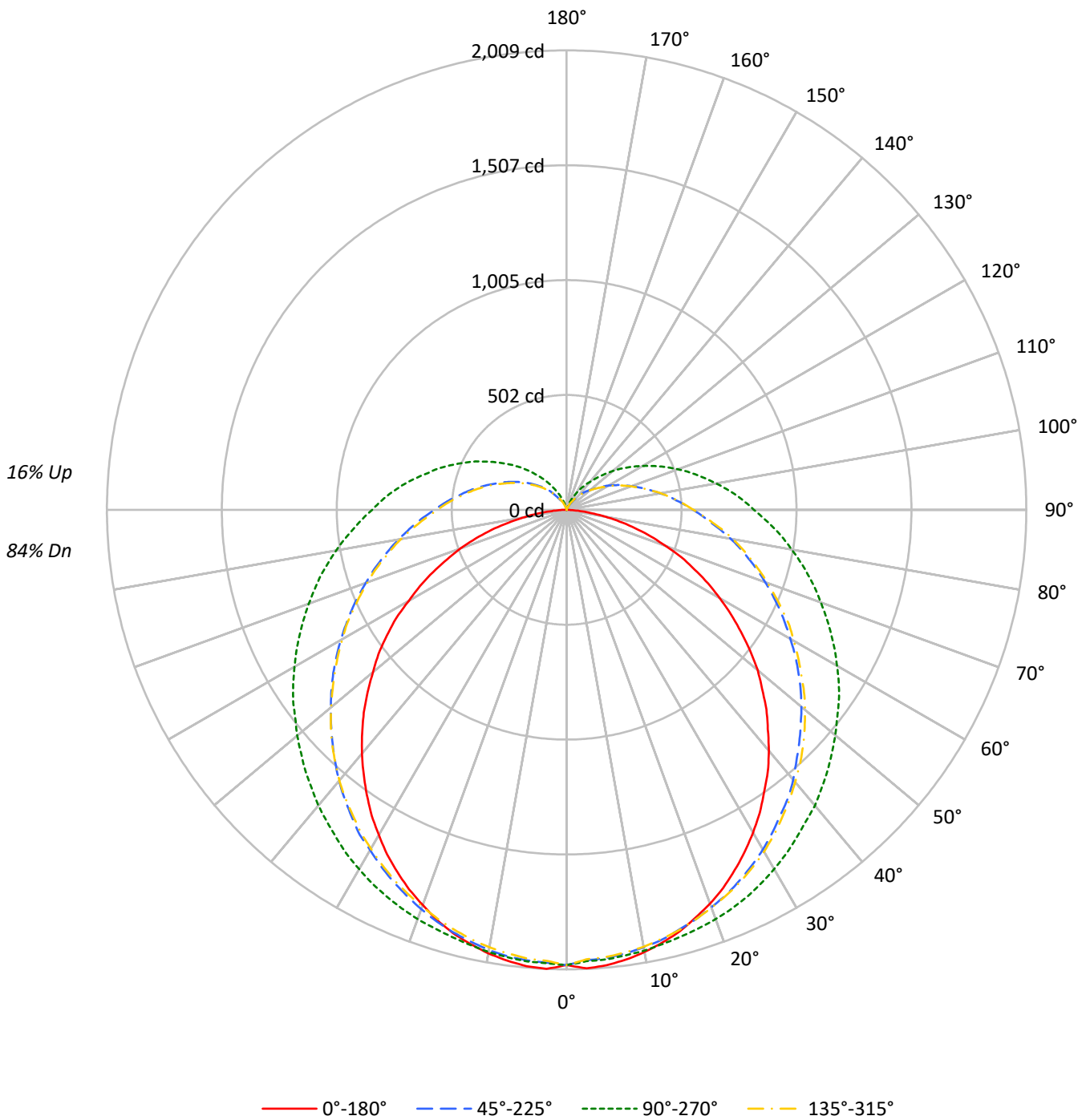
Lumens per Lamp: N/A
Luminaire Lumens: 8646.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 86
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	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°	8041	8041	8041	8041
5°	8095	7749	8112	7782
10°	8031	7529	8057	7553
15°	7949	7340	7984	7348
20°	7835	7203	7862	7203
25°	7693	7081	7739	7073
30°	7532	6955	7591	6955
35°	7344	6838	7426	6846
40°	7159	6770	7246	6770
45°	6944	6698	7051	6707
50°	6723	6655	6814	6674
55°	6408	6662	6610	6691
60°	6078	6682	6276	6723
65°	5710	6749	5962	6816
70°	5183	6874	5588	6971
75°	4583	7098	5017	7234
80°	3634	7431	4127	7603
85°	2313	7965	2891	8186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	2.2
10°-20°	541.8	6.3
20°-30°	830.7	9.6
30°-40°	1024.8	11.9
40°-50°	1111.8	12.9
50°-60°	1095.9	12.7
60°-70°	990.8	11.5
70°-80°	825.4	9.5
80°-90°	639.3	7.4
90°-100°	484.9	5.6
100°-110°	358.8	4.2
110°-120°	249.6	2.9
120°-130°	159.3	1.8
130°-140°	89.3	1.0
140°-150°	40.8	0.5
150°-160°	12.7	0.1
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1561.0	18.1
0°-40°	2585.8	29.9
0°-60°	4793.6	55.4
0°-90°	7249.1	83.8
90°-120°	1093.3	12.6
90°-150°	1382.7	16.0
90°-180°	1397.0	16.2
0°-180°	8646.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1990	1990	1990	1990	1990	
5°	1998	1973	2003	1982	1998	190
15°	1908	1931	1917	1933	1908	538
25°	1738	1866	1749	1864	1738	801
35°	1505	1751	1522	1753	1505	943
45°	1234	1612	1253	1614	1234	951
55°	930	1453	959	1459	930	832
65°	617	1274	644	1287	617	612
75°	311	1092	340	1113	311	329
85°	59	909	74	934	59	71
90°	2	819	4	850	2	3
95°	2	743	2	779	2	2
105°	2	590	2	626	2	2
115°	2	449	2	489	2	2
125°	2	323	2	359	2	2
135°	2	210	2	248	2	2
145°	2	122	2	149	2	1
155°	2	50	2	69	2	1
165°	2	8	2	13	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	2006.8	2006.8	2004.8	2000.6	2002.7	2008.9	2004.8	1994.3	1988.0	1971.2	1975.4
5°	1998.5	1998.5	1996.4	1992.2	1994.3	2002.7	1998.5	1990.1	1981.7	1967.0	1973.3
7.5°	1983.8	1983.8	1981.7	1977.5	1981.7	1990.1	1985.9	1977.5	1971.2	1956.5	1962.8
10°	1962.8	1964.9	1962.8	1956.5	1964.9	1973.3	1971.2	1960.7	1954.4	1941.8	1948.1
12.5°	1937.6	1939.7	1937.6	1935.5	1939.7	1952.3	1948.1	1939.7	1935.5	1925.0	1931.3
15°	1908.2	1910.3	1906.1	1906.1	1910.3	1922.9	1922.9	1914.5	1910.3	1899.8	1912.4
17.5°	1870.4	1872.5	1870.4	1870.4	1874.6	1887.2	1889.3	1885.1	1880.9	1876.7	1889.3
20°	1832.6	1830.5	1830.5	1828.4	1836.8	1855.7	1853.6	1853.6	1849.4	1849.4	1864.1
22.5°	1788.5	1788.5	1786.4	1786.4	1796.9	1813.7	1813.7	1817.9	1813.7	1822.1	1834.7
25°	1738.1	1740.2	1738.1	1742.3	1750.7	1769.6	1771.7	1778.0	1780.1	1788.5	1803.2
27.5°	1685.7	1687.8	1685.7	1689.9	1704.6	1719.3	1729.8	1738.1	1740.2	1752.8	1771.7
30°	1629.0	1629.0	1631.1	1635.3	1652.1	1675.2	1683.6	1694.1	1694.1	1715.1	1734.0
32.5°	1570.2	1570.2	1570.2	1578.6	1597.5	1624.8	1635.3	1647.9	1652.1	1673.1	1694.1
35°	1505.1	1507.2	1507.2	1513.5	1538.7	1566.0	1580.7	1595.4	1603.8	1629.0	1650.0
37.5°	1444.3	1448.5	1442.2	1450.6	1486.2	1509.3	1526.1	1540.8	1555.5	1589.1	1605.9
40°	1375.0	1379.2	1377.1	1393.9	1423.3	1452.7	1471.5	1486.2	1507.2	1540.8	1559.7
42.5°	1301.5	1305.7	1309.9	1328.8	1360.3	1389.7	1412.8	1431.7	1456.9	1486.2	1517.7
45°	1234.3	1234.3	1240.6	1263.7	1297.3	1328.8	1356.1	1377.1	1406.5	1438.0	1469.5
47.5°	1158.8	1160.9	1169.3	1196.6	1232.2	1270.0	1295.2	1322.5	1354.0	1387.6	1423.3
50°	1089.5	1089.5	1102.1	1131.5	1165.1	1207.0	1234.3	1265.8	1299.4	1339.3	1375.0
52.5°	1009.7	1013.9	1032.8	1060.1	1104.2	1142.0	1173.5	1207.0	1246.9	1288.9	1328.8
55°	930.0	938.3	953.0	990.8	1037.0	1072.7	1110.5	1152.5	1190.3	1236.4	1282.6
57.5°	852.3	858.6	881.7	919.5	967.7	1011.8	1051.7	1091.6	1137.8	1184.0	1232.2
60°	772.5	780.9	808.2	846.0	898.5	944.6	990.8	1032.8	1081.1	1129.4	1179.8
62.5°	696.9	703.2	734.7	778.8	831.3	881.7	927.9	978.2	1030.7	1076.9	1127.3
65°	617.2	627.7	663.4	703.2	764.1	814.5	867.0	921.6	976.1	1026.5	1074.8
67.5°	543.7	550.0	587.8	634.0	694.8	751.5	806.1	864.9	921.6	974.0	1022.3
70°	457.6	478.6	516.4	564.7	629.8	688.5	747.3	808.2	869.1	923.7	969.8
72.5°	386.3	403.0	445.0	497.5	560.5	629.8	690.6	755.7	816.6	873.3	921.6
75°	310.7	327.5	375.8	434.5	499.6	573.1	636.1	703.2	766.2	822.9	873.3
77.5°	237.2	258.2	310.7	371.6	442.9	518.5	583.6	650.8	715.8	776.7	827.1
80°	170.0	193.1	249.8	319.1	388.4	463.9	535.3	602.5	667.6	728.4	780.9
82.5°	109.2	134.3	195.2	264.5	338.0	413.5	487.0	554.2	619.3	680.1	734.7
85°	58.8	86.1	149.0	218.3	291.8	367.4	440.8	512.2	575.2	631.9	690.6
87.5°	16.8	50.4	111.3	180.5	256.1	325.4	396.8	468.1	531.1	592.0	644.5
90°	2.1	29.4	84.0	149.0	222.5	289.7	361.1	428.2	491.2	552.1	604.6
92.5°	2.1	18.9	65.1	123.9	191.0	260.3	331.7	396.8	455.5	516.4	568.9
95°	2.1	14.7	52.5	105.0	167.9	233.0	300.2	363.2	424.0	480.7	533.2
97.5°	2.1	10.5	42.0	90.3	146.9	207.8	272.9	335.9	394.7	449.2	497.5
100°	2.1	8.4	33.6	77.7	128.1	186.8	245.6	306.5	363.2	415.6	466.0
102.5°	2.1	6.3	29.4	65.1	113.4	165.8	222.5	279.2	333.8	384.2	434.5
105°	2.1	6.3	25.2	56.7	100.8	149.0	201.5	256.1	306.5	354.8	401.0
107.5°	2.1	4.2	21.0	48.3	88.2	134.3	182.6	235.1	281.3	327.5	371.6
110°	2.1	4.2	16.8	44.1	77.7	119.7	165.8	214.1	258.2	302.3	344.3



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CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.1	4.2	14.7	37.8	67.2	107.1	149.0	193.1	235.1	279.2	317.0
115°	2.1	4.2	12.6	33.6	63.0	92.4	134.3	174.2	216.2	256.1	291.8
117.5°	2.1	4.2	10.5	27.3	54.6	84.0	117.6	157.4	195.2	233.0	266.6
120°	2.1	4.2	8.4	25.2	48.3	75.6	105.0	140.6	176.3	212.0	247.7
122.5°	2.1	2.1	8.4	21.0	42.0	67.2	96.6	123.9	157.4	191.0	222.5
125°	2.1	2.1	8.4	18.9	35.7	60.9	86.1	111.3	140.6	170.0	197.3
127.5°	2.1	2.1	6.3	14.7	31.5	52.5	75.6	102.9	123.9	151.1	178.4
130°	2.1	2.1	6.3	12.6	27.3	44.1	67.2	90.3	115.5	134.3	157.4
132.5°	2.1	2.1	6.3	10.5	21.0	35.7	56.7	77.7	100.8	121.8	140.6
135°	2.1	2.1	4.2	8.4	16.8	29.4	46.2	65.1	88.2	109.2	128.1
137.5°	2.1	2.1	4.2	8.4	12.6	25.2	35.7	52.5	73.5	92.4	111.3
140°	2.1	2.1	4.2	6.3	10.5	18.9	29.4	42.0	58.8	75.6	96.6
142.5°	2.1	2.1	2.1	6.3	8.4	14.7	23.1	33.6	46.2	60.9	77.7
145°	2.1	2.1	2.1	6.3	8.4	10.5	18.9	27.3	35.7	46.2	60.9
147.5°	2.1	2.1	2.1	4.2	6.3	8.4	14.7	21.0	27.3	35.7	44.1
150°	2.1	2.1	2.1	4.2	6.3	8.4	10.5	14.7	21.0	29.4	35.7
152.5°	2.1	2.1	2.1	4.2	4.2	6.3	8.4	10.5	14.7	21.0	25.2
155°	2.1	2.1	2.1	2.1	4.2	6.3	8.4	8.4	10.5	14.7	18.9
157.5°	2.1	2.1	2.1	2.1	4.2	4.2	6.3	6.3	8.4	8.4	12.6
160°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.3	6.3	6.3	6.3
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.3	6.3
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1975.4	1977.5	1983.8	1983.8	1979.6	1979.6	1977.5	1975.4	1977.5	1981.7	1981.7
5°	1971.2	1973.3	1979.6	1981.7	1977.5	1975.4	1975.4	1973.3	1975.4	1979.6	1979.6
7.5°	1962.8	1964.9	1971.2	1973.3	1969.1	1969.1	1967.0	1964.9	1969.1	1971.2	1971.2
10°	1950.2	1952.3	1960.7	1962.8	1960.7	1958.6	1958.6	1956.5	1958.6	1962.8	1962.8
12.5°	1933.4	1937.6	1948.1	1948.1	1948.1	1946.0	1946.0	1943.9	1946.0	1950.2	1948.1
15°	1914.5	1922.9	1931.3	1935.5	1935.5	1935.5	1933.4	1931.3	1935.5	1937.6	1935.5
17.5°	1893.5	1904.0	1916.6	1920.8	1920.8	1922.9	1920.8	1918.7	1922.9	1922.9	1920.8
20°	1872.5	1883.0	1895.6	1899.8	1904.0	1906.1	1906.1	1904.0	1906.1	1908.2	1906.1
22.5°	1845.2	1857.8	1872.5	1878.8	1883.0	1887.2	1887.2	1887.2	1889.3	1891.4	1887.2
25°	1815.8	1830.5	1847.3	1853.6	1862.0	1864.1	1866.2	1866.2	1868.3	1870.4	1864.1
27.5°	1784.3	1801.1	1817.9	1828.4	1834.7	1838.9	1838.9	1841.0	1843.1	1845.2	1838.9
30°	1746.5	1771.7	1786.4	1794.8	1803.2	1809.5	1811.6	1813.7	1815.8	1817.9	1811.6
32.5°	1713.0	1734.0	1752.8	1763.3	1773.8	1782.2	1784.3	1784.3	1788.5	1788.5	1782.2
35°	1673.1	1698.3	1717.2	1727.7	1740.2	1746.5	1750.7	1750.7	1754.9	1754.9	1748.6
37.5°	1633.2	1658.4	1679.4	1692.0	1706.7	1715.1	1717.2	1717.2	1721.4	1721.4	1713.0
40°	1591.2	1618.5	1641.6	1656.3	1668.9	1679.4	1681.5	1687.8	1687.8	1685.7	1677.3
42.5°	1549.2	1574.4	1599.6	1616.4	1633.2	1643.7	1647.9	1650.0	1650.0	1647.9	1641.6
45°	1503.0	1532.4	1555.5	1576.5	1593.3	1603.8	1610.1	1612.2	1612.2	1608.0	1601.7
47.5°	1459.0	1488.3	1511.4	1534.5	1551.3	1563.9	1570.2	1572.3	1570.2	1568.1	1561.8
50°	1412.8	1446.4	1469.5	1492.5	1509.3	1519.8	1530.3	1532.4	1530.3	1528.2	1515.6
52.5°	1364.5	1400.2	1425.4	1448.5	1467.4	1479.9	1488.3	1490.4	1490.4	1486.2	1477.8
55°	1316.2	1347.7	1379.2	1404.4	1425.4	1438.0	1448.5	1452.7	1448.5	1444.3	1433.8
57.5°	1272.1	1301.5	1333.0	1360.3	1381.3	1398.1	1406.5	1410.7	1406.5	1400.2	1389.7
60°	1219.6	1251.1	1286.8	1312.0	1335.1	1351.9	1356.1	1364.5	1360.3	1354.0	1343.5
62.5°	1169.3	1207.0	1238.5	1270.0	1288.9	1307.8	1316.2	1320.4	1316.2	1309.9	1299.4
65°	1116.8	1158.8	1190.3	1221.7	1242.7	1261.6	1272.1	1274.2	1270.0	1263.7	1253.2
67.5°	1068.5	1108.4	1142.0	1175.6	1194.5	1213.3	1223.8	1228.0	1223.8	1215.4	1204.9
70°	1020.2	1060.1	1100.0	1125.2	1148.3	1169.3	1175.6	1181.9	1177.7	1169.3	1156.7
72.5°	971.9	1013.9	1053.8	1079.0	1104.2	1123.1	1131.5	1137.8	1133.6	1125.2	1110.5
75°	921.6	965.6	1005.5	1032.8	1058.0	1076.9	1085.3	1091.6	1087.4	1079.0	1062.2
77.5°	875.4	919.5	957.2	986.6	1011.8	1028.6	1043.3	1045.4	1041.2	1032.8	1016.0
80°	827.1	871.2	911.1	940.4	965.6	982.4	992.9	999.2	995.0	986.6	969.8
82.5°	785.1	825.0	864.9	894.3	919.5	940.4	948.8	955.1	953.0	940.4	927.9
85°	738.9	785.1	816.6	848.1	873.3	894.3	900.6	909.0	906.9	896.4	879.6
87.5°	692.7	738.9	776.7	808.2	831.3	848.1	858.6	862.8	860.7	850.2	831.3
90°	655.0	696.9	734.7	768.3	787.2	806.1	816.6	818.7	818.7	806.1	791.4
92.5°	619.3	659.2	696.9	728.4	751.5	768.3	776.7	780.9	778.8	768.3	751.5
95°	579.4	623.5	659.2	690.6	713.7	730.5	738.9	743.1	741.0	730.5	713.7
97.5°	545.8	585.7	621.4	650.8	673.8	690.6	699.0	703.2	703.2	692.7	675.9
100°	512.2	552.1	585.7	615.1	636.1	652.9	661.3	663.4	661.3	652.9	636.1
102.5°	478.6	516.4	550.0	577.3	600.4	615.1	623.5	625.6	625.6	615.1	598.3
105°	445.0	482.8	514.3	543.7	562.6	577.3	583.6	589.9	587.8	579.4	562.6
107.5°	413.5	451.3	480.7	508.0	526.9	541.6	547.9	554.2	552.1	543.7	526.9
110°	384.2	419.8	447.1	474.4	491.2	505.9	516.4	518.5	514.3	505.9	491.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	356.9	388.4	415.6	440.8	459.7	470.2	478.6	482.8	478.6	470.2	459.7
115°	327.5	359.0	386.3	409.3	426.1	438.7	445.0	449.2	445.0	436.6	426.1
117.5°	300.2	329.6	356.9	380.0	394.7	405.1	411.4	415.6	411.4	405.1	394.7
120°	277.1	302.3	327.5	348.5	365.3	373.7	380.0	384.2	382.1	373.7	363.2
122.5°	249.8	277.1	300.2	321.2	335.9	344.3	348.5	352.7	350.6	344.3	333.8
125°	226.7	249.8	272.9	291.8	306.5	314.9	319.1	323.3	321.2	314.9	302.3
127.5°	201.5	226.7	245.6	264.5	275.0	287.6	289.7	293.9	291.8	285.5	275.0
130°	182.6	201.5	220.4	237.2	249.8	258.2	262.4	264.5	260.3	256.1	245.6
132.5°	159.5	180.5	197.3	212.0	220.4	228.8	233.0	235.1	235.1	228.8	220.4
135°	142.7	157.4	172.1	186.8	195.2	203.6	207.8	209.9	207.8	203.6	195.2
137.5°	128.1	140.6	151.1	163.7	174.2	178.4	182.6	182.6	180.5	178.4	172.1
140°	111.3	126.0	136.4	144.8	153.2	155.3	159.5	159.5	157.4	155.3	151.1
142.5°	94.5	107.1	117.6	128.1	134.3	138.5	140.6	142.7	140.6	138.5	132.3
145°	75.6	90.3	100.8	107.1	115.5	117.6	119.7	121.8	119.7	117.6	111.3
147.5°	58.8	71.4	81.9	90.3	96.6	98.7	100.8	102.9	100.8	96.6	94.5
150°	42.0	52.5	65.1	73.5	77.7	81.9	81.9	81.9	84.0	79.8	75.6
152.5°	33.6	37.8	46.2	54.6	60.9	63.0	65.1	65.1	63.0	63.0	58.8
155°	23.1	27.3	33.6	39.9	46.2	48.3	50.4	50.4	48.3	48.3	46.2
157.5°	14.7	18.9	23.1	27.3	33.6	35.7	37.8	37.8	37.8	35.7	33.6
160°	8.4	10.5	12.6	16.8	21.0	23.1	25.2	25.2	25.2	25.2	23.1
162.5°	6.3	6.3	6.3	8.4	10.5	12.6	14.7	14.7	14.7	14.7	12.6
165°	4.2	4.2	4.2	4.2	4.2	6.3	8.4	8.4	8.4	8.4	8.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1979.6	1979.6	1981.7	1977.5	1964.9	1967.0	1967.0	1975.4	1979.6	1981.7	1992.2
5°	1975.4	1975.4	1979.6	1973.3	1962.8	1962.8	1962.8	1971.2	1973.3	1977.5	1985.9
7.5°	1969.1	1969.1	1971.2	1964.9	1952.3	1952.3	1950.2	1958.6	1962.8	1964.9	1973.3
10°	1958.6	1958.6	1960.7	1954.4	1939.7	1939.7	1937.6	1943.9	1946.0	1950.2	1956.5
12.5°	1943.9	1943.9	1943.9	1937.6	1922.9	1920.8	1918.7	1925.0	1925.0	1927.1	1933.4
15°	1931.3	1927.1	1927.1	1920.8	1906.1	1901.9	1897.7	1899.8	1904.0	1901.9	1906.1
17.5°	1916.6	1912.4	1908.2	1901.9	1883.0	1876.7	1872.5	1874.6	1872.5	1870.4	1874.6
20°	1899.8	1893.5	1891.4	1880.9	1862.0	1851.5	1843.1	1838.9	1841.0	1834.7	1836.8
22.5°	1880.9	1872.5	1868.3	1855.7	1836.8	1824.2	1813.7	1805.3	1803.2	1794.8	1796.9
25°	1857.8	1847.3	1841.0	1830.5	1809.5	1794.8	1782.2	1769.6	1763.3	1752.8	1750.7
27.5°	1830.5	1820.0	1811.6	1801.1	1780.1	1761.2	1746.5	1729.8	1721.4	1708.8	1702.5
30°	1803.2	1790.6	1778.0	1769.6	1746.5	1725.6	1702.5	1687.8	1675.2	1660.5	1650.0
32.5°	1769.6	1757.0	1744.4	1731.9	1710.9	1685.7	1666.8	1643.7	1629.0	1612.2	1599.6
35°	1736.1	1719.3	1706.7	1689.9	1671.0	1641.6	1618.5	1595.4	1576.5	1557.6	1542.9
37.5°	1698.3	1685.7	1666.8	1652.1	1629.0	1599.6	1574.4	1545.0	1528.2	1503.0	1484.1
40°	1662.6	1647.9	1629.0	1610.1	1587.0	1553.4	1526.1	1492.5	1473.6	1444.3	1425.4
42.5°	1626.9	1605.9	1587.0	1566.0	1540.8	1509.3	1475.7	1442.2	1417.0	1389.7	1362.4
45°	1587.0	1563.9	1540.8	1517.7	1492.5	1461.1	1425.4	1389.7	1358.2	1333.0	1299.4
47.5°	1545.0	1521.9	1494.6	1469.5	1442.2	1410.7	1372.9	1335.1	1301.5	1272.1	1236.4
50°	1503.0	1479.9	1450.6	1423.3	1391.8	1360.3	1320.4	1276.3	1240.6	1202.9	1171.4
52.5°	1459.0	1435.9	1408.6	1372.9	1339.3	1307.8	1265.8	1219.6	1179.8	1148.3	1108.4
55°	1414.9	1391.8	1360.3	1324.6	1291.0	1251.1	1211.2	1165.1	1121.0	1083.2	1043.3
57.5°	1368.7	1347.7	1312.0	1282.6	1240.6	1198.7	1156.7	1112.6	1064.3	1020.2	974.0
60°	1322.5	1299.4	1265.8	1230.1	1188.2	1146.2	1102.1	1053.8	1003.4	955.1	913.2
62.5°	1280.5	1251.1	1219.6	1181.9	1137.8	1097.9	1047.5	995.0	944.6	894.3	843.9
65°	1232.2	1200.8	1171.4	1133.6	1087.4	1041.2	990.8	938.3	883.8	829.2	778.8
67.5°	1184.0	1152.5	1121.0	1083.2	1034.9	986.6	934.2	881.7	820.8	768.3	709.5
70°	1135.7	1110.5	1070.6	1030.7	986.6	934.2	881.7	825.0	762.0	705.3	644.5
72.5°	1087.4	1062.2	1022.3	980.3	938.3	883.8	827.1	770.4	711.6	646.6	581.5
75°	1041.2	1009.7	974.0	934.2	890.1	833.4	776.7	717.9	648.7	587.8	520.6
77.5°	997.1	967.7	932.1	888.0	839.7	785.1	726.3	665.5	596.2	531.1	457.6
80°	948.8	919.5	883.8	839.7	791.4	738.9	675.9	613.0	545.8	474.4	398.9
82.5°	902.7	875.4	835.5	795.6	743.1	690.6	627.7	564.7	493.3	424.0	350.6
85°	854.4	827.1	789.3	747.3	696.9	640.3	581.5	518.5	447.1	375.8	302.3
87.5°	812.4	780.9	743.1	701.1	650.8	596.2	539.5	472.3	403.0	333.8	258.2
90°	768.3	738.9	701.1	659.2	608.8	554.2	495.4	432.4	365.3	293.9	222.5
92.5°	730.5	699.0	663.4	621.4	571.0	518.5	459.7	396.8	331.7	262.4	193.1
95°	692.7	661.3	627.7	585.7	535.3	482.8	424.0	363.2	300.2	233.0	167.9
97.5°	650.8	623.5	589.9	550.0	499.6	449.2	392.6	333.8	272.9	207.8	146.9
100°	617.2	585.7	554.2	512.2	466.0	417.7	361.1	304.4	245.6	184.7	128.1
102.5°	579.4	550.0	518.5	478.6	432.4	384.2	331.7	277.1	222.5	165.8	111.3
105°	543.7	516.4	482.8	445.0	401.0	354.8	304.4	254.0	201.5	146.9	98.7
107.5°	508.0	480.7	449.2	413.5	371.6	325.4	279.2	228.8	180.5	132.3	88.2
110°	472.3	447.1	417.7	382.1	342.2	300.2	256.1	209.9	161.6	117.6	77.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	440.8	415.6	386.3	352.7	314.9	275.0	233.0	188.9	144.8	105.0	67.2
115°	409.3	386.3	356.9	327.5	289.7	251.9	212.0	170.0	130.2	94.5	58.8
117.5°	377.9	354.8	327.5	298.1	264.5	228.8	191.0	151.1	117.6	84.0	52.5
120°	346.4	325.4	300.2	272.9	243.5	207.8	170.0	136.4	105.0	73.5	46.2
122.5°	317.0	298.1	275.0	249.8	218.3	184.7	153.2	123.9	94.5	65.1	37.8
125°	289.7	270.8	249.8	224.6	195.2	165.8	138.5	111.3	81.9	56.7	31.5
127.5°	262.4	243.5	222.5	199.4	176.3	149.0	123.9	98.7	73.5	50.4	27.3
130°	235.1	218.3	199.4	180.5	157.4	132.3	111.3	86.1	63.0	39.9	23.1
132.5°	207.8	195.2	178.4	159.5	138.5	119.7	96.6	75.6	54.6	35.7	21.0
135°	184.7	172.1	157.4	140.6	123.9	105.0	84.0	65.1	46.2	29.4	16.8
137.5°	163.7	153.2	138.5	123.9	109.2	90.3	73.5	54.6	37.8	25.2	12.6
140°	144.8	134.3	121.8	107.1	94.5	77.7	60.9	44.1	33.6	21.0	10.5
142.5°	126.0	115.5	105.0	92.4	79.8	65.1	50.4	37.8	27.3	16.8	10.5
145°	107.1	98.7	88.2	77.7	65.1	52.5	42.0	31.5	21.0	12.6	8.4
147.5°	88.2	81.9	71.4	63.0	52.5	42.0	33.6	25.2	16.8	10.5	6.3
150°	71.4	65.1	56.7	48.3	42.0	33.6	27.3	18.9	12.6	10.5	6.3
152.5°	54.6	50.4	44.1	39.9	33.6	25.2	18.9	14.7	10.5	8.4	4.2
155°	44.1	39.9	35.7	29.4	25.2	18.9	14.7	10.5	8.4	6.3	4.2
157.5°	31.5	29.4	25.2	21.0	16.8	12.6	10.5	10.5	6.3	4.2	2.1
160°	21.0	18.9	16.8	12.6	10.5	10.5	8.4	6.3	4.2	4.2	2.1
162.5°	12.6	10.5	10.5	10.5	8.4	8.4	6.3	4.2	4.2	2.1	2.1
165°	8.4	8.4	8.4	6.3	6.3	6.3	4.2	2.1	2.1	2.1	2.1
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-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1992.2	1985.9	1994.3	2008.9	2011.0	2008.9	2004.8	2011.0	2019.4	2017.3	2002.7
5°	1988.0	1979.6	1988.0	2002.7	2002.7	2000.6	1998.5	2004.8	2013.1	2011.0	1998.5
7.5°	1975.4	1967.0	1975.4	1988.0	1990.1	1985.9	1985.9	1992.2	2000.6	1998.5	1988.0
10°	1958.6	1950.2	1954.4	1969.1	1973.3	1969.1	1969.1	1975.4	1985.9	1983.8	1971.2
12.5°	1933.4	1927.1	1931.3	1943.9	1948.1	1946.0	1943.9	1952.3	1962.8	1962.8	1950.2
15°	1906.1	1897.7	1901.9	1916.6	1918.7	1914.5	1916.6	1922.9	1935.5	1935.5	1925.0
17.5°	1874.6	1864.1	1870.4	1880.9	1883.0	1883.0	1883.0	1891.4	1906.1	1904.0	1895.6
20°	1838.9	1824.2	1828.4	1838.9	1843.1	1843.1	1843.1	1857.8	1868.3	1868.3	1859.9
22.5°	1796.9	1786.4	1786.4	1796.9	1803.2	1801.1	1801.1	1813.7	1828.4	1826.3	1826.3
25°	1748.6	1740.2	1736.1	1748.6	1750.7	1752.8	1757.0	1769.6	1786.4	1786.4	1788.5
27.5°	1698.3	1689.9	1687.8	1698.3	1700.4	1702.5	1706.7	1721.4	1738.1	1740.2	1744.4
30°	1650.0	1637.4	1633.2	1641.6	1645.8	1647.9	1647.9	1671.0	1685.7	1692.0	1700.4
32.5°	1593.3	1580.7	1570.2	1584.9	1587.0	1591.2	1593.3	1616.4	1633.2	1643.7	1656.3
35°	1536.6	1515.6	1511.4	1521.9	1526.1	1528.2	1532.4	1557.6	1580.7	1589.1	1605.9
37.5°	1473.6	1459.0	1446.4	1456.9	1461.1	1463.2	1475.7	1498.8	1521.9	1534.5	1551.3
40°	1414.9	1396.0	1385.5	1391.8	1396.0	1398.1	1412.8	1438.0	1465.3	1479.9	1500.9
42.5°	1349.8	1324.6	1316.2	1322.5	1324.6	1330.9	1343.5	1377.1	1404.4	1425.4	1442.2
45°	1284.7	1265.8	1246.9	1253.2	1255.3	1259.5	1278.4	1314.1	1343.5	1368.7	1387.6
47.5°	1217.5	1194.5	1175.6	1179.8	1188.2	1190.3	1211.2	1253.2	1280.5	1307.8	1333.0
50°	1150.4	1118.9	1104.2	1104.2	1108.4	1118.9	1146.2	1188.2	1217.5	1249.0	1276.3
52.5°	1081.1	1051.7	1034.9	1037.0	1041.2	1053.8	1079.0	1121.0	1154.6	1188.2	1221.7
55°	1011.8	980.3	963.5	959.3	963.5	980.3	1009.7	1053.8	1087.4	1127.3	1163.0
57.5°	942.5	904.8	890.1	883.8	888.0	909.0	938.3	984.5	1026.5	1064.3	1106.3
60°	867.0	837.6	812.4	797.7	808.2	835.5	867.0	915.3	959.3	1001.3	1047.5
62.5°	801.9	764.1	736.8	722.1	732.6	755.7	799.8	846.0	894.3	942.5	988.7
65°	728.4	690.6	659.2	644.5	655.0	682.2	726.3	776.7	829.2	877.5	932.1
67.5°	657.1	617.2	579.4	564.7	577.3	606.7	655.0	711.6	768.3	818.7	877.5
70°	587.8	543.7	503.8	493.3	501.7	541.6	587.8	644.5	703.2	762.0	822.9
72.5°	524.8	470.2	428.2	415.6	426.1	470.2	522.7	581.5	644.5	707.4	772.5
75°	451.3	401.0	354.8	340.1	352.7	392.6	457.6	520.6	587.8	655.0	715.8
77.5°	392.6	333.8	285.5	262.4	283.4	333.8	396.8	463.9	533.2	602.5	671.7
80°	331.7	270.8	218.3	193.1	216.2	270.8	333.8	407.2	484.9	554.2	617.2
82.5°	277.1	212.0	157.4	130.2	155.3	216.2	285.5	359.0	434.5	503.8	577.3
85°	226.7	159.5	102.9	73.5	109.2	163.7	237.2	312.8	390.5	461.8	533.2
87.5°	184.7	119.7	63.0	31.5	67.2	128.1	197.3	272.9	350.6	421.9	489.1
90°	151.1	86.1	33.6	4.2	39.9	96.6	163.7	237.2	310.7	384.2	451.3
92.5°	123.9	65.1	18.9	2.1	25.2	77.7	140.6	209.9	281.3	352.7	417.7
95°	102.9	50.4	12.6	2.1	18.9	60.9	119.7	186.8	254.0	323.3	388.4
97.5°	88.2	42.0	10.5	2.1	14.7	52.5	102.9	165.8	230.9	296.0	359.0
100°	75.6	33.6	8.4	2.1	12.6	44.1	90.3	146.9	207.8	270.8	331.7
102.5°	65.1	27.3	6.3	2.1	10.5	37.8	79.8	132.3	186.8	247.7	306.5
105°	56.7	23.1	6.3	2.1	8.4	33.6	71.4	117.6	172.1	226.7	283.4
107.5°	48.3	18.9	4.2	2.1	6.3	27.3	63.0	107.1	155.3	207.8	260.3
110°	42.0	16.8	4.2	2.1	6.3	25.2	54.6	96.6	140.6	188.9	239.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	35.7	12.6	4.2	2.1	4.2	21.0	48.3	86.1	128.1	172.1	220.4
115°	31.5	10.5	2.1	2.1	4.2	18.9	44.1	77.7	115.5	157.4	201.5
117.5°	25.2	8.4	2.1	2.1	2.1	14.7	37.8	69.3	105.0	144.8	184.7
120°	21.0	8.4	2.1	2.1	2.1	12.6	33.6	60.9	94.5	130.2	167.9
122.5°	18.9	6.3	2.1	2.1	2.1	10.5	29.4	54.6	84.0	117.6	153.2
125°	16.8	6.3	2.1	2.1	2.1	8.4	25.2	48.3	75.6	105.0	138.5
127.5°	12.6	6.3	2.1	2.1	2.1	6.3	23.1	42.0	67.2	94.5	123.9
130°	10.5	4.2	2.1	2.1	2.1	6.3	18.9	37.8	58.8	84.0	111.3
132.5°	8.4	4.2	2.1	2.1	2.1	4.2	14.7	29.4	50.4	73.5	98.7
135°	8.4	4.2	2.1	2.1	2.1	4.2	10.5	25.2	42.0	63.0	84.0
137.5°	8.4	2.1	2.1	2.1	2.1	4.2	8.4	18.9	33.6	50.4	69.3
140°	6.3	2.1	2.1	2.1	2.1	2.1	6.3	14.7	27.3	42.0	58.8
142.5°	6.3	2.1	2.1	2.1	2.1	2.1	6.3	10.5	21.0	33.6	46.2
145°	4.2	2.1	2.1	2.1	2.1	2.1	4.2	8.4	16.8	25.2	37.8
147.5°	4.2	2.1	2.1	2.1	2.1	2.1	4.2	6.3	12.6	21.0	29.4
150°	4.2	2.1	2.1	2.1	2.1	2.1	4.2	6.3	8.4	14.7	23.1
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.3	10.5	14.7
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	6.3	8.4	10.5
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.3	8.4
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.3
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1996.4	1981.7	1985.9	1983.8	1988.0	1994.3	1994.3	1992.2	1992.2	1988.0	1983.8
5°	1992.2	1977.5	1983.8	1981.7	1985.9	1992.2	1992.2	1990.1	1990.1	1983.8	1981.7
7.5°	1979.6	1969.1	1973.3	1973.3	1977.5	1983.8	1983.8	1981.7	1981.7	1975.4	1973.3
10°	1967.0	1954.4	1960.7	1960.7	1964.9	1973.3	1973.3	1971.2	1971.2	1964.9	1962.8
12.5°	1946.0	1933.4	1943.9	1946.0	1950.2	1958.6	1956.5	1956.5	1956.5	1950.2	1948.1
15°	1920.8	1912.4	1922.9	1925.0	1931.3	1941.8	1941.8	1941.8	1941.8	1935.5	1933.4
17.5°	1893.5	1887.2	1897.7	1901.9	1910.3	1920.8	1920.8	1922.9	1925.0	1920.8	1918.7
20°	1862.0	1857.8	1868.3	1876.7	1889.3	1899.8	1904.0	1906.1	1910.3	1906.1	1904.0
22.5°	1826.3	1826.3	1841.0	1849.4	1864.1	1874.6	1880.9	1887.2	1891.4	1887.2	1885.1
25°	1786.4	1792.7	1807.4	1822.1	1838.9	1849.4	1855.7	1864.1	1868.3	1866.2	1864.1
27.5°	1748.6	1757.0	1775.9	1790.6	1805.3	1822.1	1828.4	1838.9	1843.1	1843.1	1841.0
30°	1704.6	1717.2	1738.1	1754.9	1773.8	1790.6	1799.0	1809.5	1815.8	1811.6	1813.7
32.5°	1662.6	1683.6	1700.4	1719.3	1740.2	1757.0	1767.5	1780.1	1786.4	1784.3	1786.4
35°	1616.4	1637.4	1660.5	1679.4	1704.6	1721.4	1736.1	1746.5	1754.9	1752.8	1752.8
37.5°	1566.0	1593.3	1616.4	1641.6	1664.7	1683.6	1698.3	1710.9	1719.3	1719.3	1719.3
40°	1517.7	1547.1	1570.2	1599.6	1629.0	1645.8	1662.6	1675.2	1683.6	1685.7	1687.8
42.5°	1465.3	1496.7	1524.0	1555.5	1584.9	1605.9	1624.8	1639.5	1647.9	1652.1	1650.0
45°	1417.0	1446.4	1477.8	1513.5	1540.8	1561.8	1584.9	1601.7	1610.1	1612.2	1614.3
47.5°	1362.4	1396.0	1431.7	1467.4	1494.6	1521.9	1542.9	1559.7	1568.1	1574.4	1574.4
50°	1309.9	1345.6	1385.5	1423.3	1452.7	1479.9	1500.9	1519.8	1530.3	1534.5	1536.6
52.5°	1261.6	1295.2	1337.2	1375.0	1404.4	1431.7	1459.0	1479.9	1490.4	1494.6	1494.6
55°	1202.9	1244.8	1291.0	1326.7	1358.2	1389.7	1417.0	1438.0	1448.5	1454.8	1459.0
57.5°	1148.3	1192.4	1240.6	1278.4	1316.2	1345.6	1370.8	1398.1	1406.5	1414.9	1417.0
60°	1095.8	1139.9	1186.1	1228.0	1265.8	1297.3	1326.7	1349.8	1364.5	1368.7	1372.9
62.5°	1041.2	1087.4	1135.7	1177.7	1217.5	1255.3	1282.6	1303.6	1320.4	1326.7	1330.9
65°	988.7	1037.0	1085.3	1129.4	1171.4	1209.1	1236.4	1257.4	1274.2	1284.7	1286.8
67.5°	932.1	984.5	1034.9	1081.1	1123.1	1163.0	1190.3	1211.2	1228.0	1240.6	1242.7
70°	879.6	934.2	984.5	1034.9	1076.9	1116.8	1146.2	1167.2	1186.1	1194.5	1198.7
72.5°	829.2	885.9	938.3	988.7	1030.7	1070.6	1102.1	1123.1	1142.0	1152.5	1154.6
75°	780.9	837.6	894.3	942.5	986.6	1026.5	1058.0	1081.1	1097.9	1108.4	1112.6
77.5°	732.6	791.4	848.1	896.4	942.5	982.4	1009.7	1037.0	1053.8	1066.4	1066.4
80°	684.3	745.2	804.0	852.3	898.5	934.2	965.6	992.9	1009.7	1022.3	1022.3
82.5°	642.4	701.1	757.8	806.1	852.3	892.2	923.7	948.8	967.7	976.1	978.2
85°	594.1	659.2	711.6	764.1	808.2	846.0	877.5	904.8	921.6	930.0	934.2
87.5°	554.2	617.2	673.8	720.0	764.1	801.9	837.6	860.7	877.5	888.0	892.2
90°	516.4	577.3	634.0	680.1	726.3	762.0	795.6	818.7	837.6	846.0	850.2
92.5°	482.8	543.7	598.3	644.5	688.5	728.4	759.9	783.0	799.8	808.2	814.5
95°	451.3	510.1	562.6	613.0	655.0	690.6	724.2	747.3	766.2	772.5	778.8
97.5°	419.8	476.5	529.0	577.3	621.4	655.0	686.4	709.5	724.2	734.7	741.0
100°	392.6	447.1	497.5	543.7	585.7	617.2	650.8	671.7	686.4	694.8	703.2
102.5°	363.2	417.7	466.0	510.1	554.2	583.6	615.1	636.1	648.7	663.4	663.4
105°	338.0	388.4	436.6	478.6	516.4	552.1	579.4	600.4	615.1	625.6	625.6
107.5°	310.7	361.1	407.2	451.3	487.0	520.6	545.8	564.7	581.5	587.8	594.1
110°	289.7	333.8	380.0	421.9	455.5	487.0	512.2	533.2	547.9	554.2	558.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	264.5	310.7	352.7	392.6	426.1	455.5	480.7	497.5	512.2	520.6	522.7
115°	243.5	287.6	325.4	363.2	398.9	424.0	447.1	463.9	478.6	484.9	489.1
117.5°	224.6	264.5	302.3	333.8	367.4	394.7	417.7	432.4	445.0	453.4	457.6
120°	205.7	243.5	277.1	308.6	340.1	365.3	386.3	401.0	415.6	421.9	421.9
122.5°	186.8	222.5	254.0	283.4	312.8	335.9	359.0	371.6	384.2	390.5	390.5
125°	170.0	203.6	233.0	260.3	287.6	308.6	327.5	342.2	354.8	359.0	359.0
127.5°	153.2	184.7	212.0	237.2	260.3	281.3	300.2	314.9	325.4	329.6	329.6
130°	138.5	165.8	191.0	216.2	239.3	256.1	275.0	287.6	293.9	300.2	302.3
132.5°	123.9	149.0	172.1	193.1	216.2	233.0	247.7	260.3	266.6	272.9	275.0
135°	109.2	132.3	153.2	174.2	193.1	209.9	222.5	233.0	241.4	245.6	247.7
137.5°	92.4	117.6	136.4	153.2	174.2	186.8	201.5	207.8	216.2	220.4	220.4
140°	77.7	96.6	117.6	134.3	151.1	163.7	176.3	186.8	193.1	195.2	195.2
142.5°	63.0	79.8	96.6	117.6	132.3	142.7	155.3	163.7	167.9	170.0	172.1
145°	50.4	63.0	77.7	96.6	113.4	126.0	132.3	140.6	144.8	146.9	149.0
147.5°	37.8	50.4	63.0	75.6	92.4	105.0	111.3	119.7	123.9	126.0	126.0
150°	29.4	37.8	46.2	58.8	71.4	86.1	94.5	100.8	102.9	105.0	105.0
152.5°	21.0	29.4	35.7	44.1	52.5	65.1	77.7	81.9	84.0	86.1	86.1
155°	14.7	21.0	25.2	31.5	37.8	48.3	58.8	65.1	67.2	69.3	69.3
157.5°	10.5	14.7	16.8	23.1	27.3	31.5	39.9	50.4	52.5	52.5	52.5
160°	6.3	8.4	10.5	14.7	16.8	21.0	25.2	31.5	37.8	37.8	37.8
162.5°	4.2	6.3	6.3	8.4	8.4	12.6	14.7	16.8	23.1	25.2	25.2
165°	2.1	4.2	4.2	4.2	4.2	4.2	6.3	6.3	10.5	12.6	12.6
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-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1985.9	1990.1	1988.0	1988.0	1988.0	1992.2	1988.0	1969.1	1973.3	1977.5	1981.7
5°	1983.8	1985.9	1985.9	1983.8	1983.8	1988.0	1983.8	1964.9	1969.1	1973.3	1975.4
7.5°	1975.4	1977.5	1977.5	1977.5	1975.4	1979.6	1973.3	1956.5	1956.5	1960.7	1962.8
10°	1964.9	1969.1	1967.0	1964.9	1964.9	1964.9	1960.7	1941.8	1941.8	1943.9	1946.0
12.5°	1952.3	1952.3	1952.3	1950.2	1948.1	1948.1	1943.9	1925.0	1922.9	1927.1	1925.0
15°	1935.5	1939.7	1935.5	1933.4	1929.2	1929.2	1922.9	1904.0	1899.8	1901.9	1899.8
17.5°	1920.8	1922.9	1918.7	1914.5	1910.3	1908.2	1901.9	1880.9	1874.6	1876.7	1872.5
20°	1906.1	1906.1	1901.9	1897.7	1891.4	1885.1	1876.7	1855.7	1845.2	1845.2	1836.8
22.5°	1887.2	1887.2	1883.0	1876.7	1870.4	1862.0	1853.6	1832.6	1815.8	1811.6	1805.3
25°	1866.2	1864.1	1862.0	1855.7	1843.1	1834.7	1826.3	1803.2	1784.3	1775.9	1765.4
27.5°	1841.0	1841.0	1834.7	1828.4	1815.8	1805.3	1794.8	1773.8	1748.6	1738.1	1723.5
30°	1813.7	1813.7	1807.4	1799.0	1786.4	1773.8	1761.2	1736.1	1710.9	1696.2	1679.4
32.5°	1786.4	1784.3	1778.0	1769.6	1757.0	1738.1	1727.7	1702.5	1673.1	1656.3	1633.2
35°	1752.8	1750.7	1744.4	1734.0	1717.2	1702.5	1685.7	1662.6	1629.0	1608.0	1582.8
37.5°	1719.3	1717.2	1713.0	1698.3	1681.5	1664.7	1643.7	1620.6	1589.1	1561.8	1536.6
40°	1685.7	1683.6	1675.2	1664.7	1643.7	1622.7	1601.7	1578.6	1545.0	1513.5	1486.2
42.5°	1650.0	1647.9	1637.4	1624.8	1601.7	1580.7	1555.5	1530.3	1496.7	1459.0	1431.7
45°	1614.3	1610.1	1599.6	1584.9	1559.7	1536.6	1511.4	1482.0	1448.5	1412.8	1377.1
47.5°	1576.5	1570.2	1559.7	1538.7	1517.7	1492.5	1463.2	1431.7	1398.1	1358.2	1320.4
50°	1534.5	1530.3	1517.7	1498.8	1473.6	1448.5	1414.9	1383.4	1343.5	1305.7	1259.5
52.5°	1494.6	1486.2	1475.7	1454.8	1429.6	1402.3	1366.6	1328.8	1288.9	1253.2	1204.9
55°	1452.7	1448.5	1433.8	1417.0	1385.5	1354.0	1320.4	1280.5	1236.4	1194.5	1148.3
57.5°	1412.8	1404.4	1391.8	1368.7	1341.4	1309.9	1274.2	1232.2	1184.0	1139.9	1089.5
60°	1372.9	1360.3	1345.6	1324.6	1295.2	1261.6	1223.8	1179.8	1131.5	1083.2	1030.7
62.5°	1328.8	1318.3	1301.5	1280.5	1251.1	1215.4	1175.6	1129.4	1083.2	1032.8	976.1
65°	1284.7	1274.2	1257.4	1236.4	1207.0	1167.2	1125.2	1079.0	1026.5	978.2	917.4
67.5°	1240.6	1230.1	1211.2	1188.2	1158.8	1121.0	1076.9	1028.6	976.1	923.7	860.7
70°	1196.6	1184.0	1167.2	1142.0	1112.6	1072.7	1028.6	978.2	925.8	869.1	806.1
72.5°	1152.5	1142.0	1121.0	1097.9	1066.4	1026.5	982.4	932.1	877.5	818.7	755.7
75°	1108.4	1095.8	1081.1	1053.8	1020.2	982.4	936.2	885.9	827.1	770.4	705.3
77.5°	1064.3	1053.8	1034.9	1007.6	976.1	936.2	890.1	839.7	780.9	722.1	652.9
80°	1020.2	1007.6	992.9	967.7	932.1	892.2	843.9	793.5	734.7	673.8	604.6
82.5°	976.1	963.5	946.7	921.6	888.0	848.1	801.9	747.3	688.5	625.6	560.5
85°	932.1	921.6	902.7	877.5	841.8	801.9	755.7	707.4	644.5	581.5	516.4
87.5°	888.0	877.5	858.6	833.4	799.8	759.9	713.7	663.4	602.5	543.7	472.3
90°	846.0	837.6	818.7	793.5	759.9	720.0	678.0	623.5	564.7	505.9	438.7
92.5°	808.2	799.8	783.0	757.8	728.4	684.3	642.4	589.9	531.1	470.2	405.1
95°	774.6	764.1	747.3	724.2	688.5	650.8	608.8	556.3	499.6	438.7	375.8
97.5°	736.8	726.3	709.5	684.3	655.0	615.1	573.1	522.7	466.0	409.3	346.4
100°	699.0	688.5	669.6	648.7	619.3	579.4	539.5	489.1	436.6	382.1	321.2
102.5°	661.3	650.8	634.0	613.0	583.6	547.9	508.0	459.7	407.2	352.7	296.0
105°	625.6	615.1	598.3	577.3	550.0	514.3	472.3	430.3	380.0	327.5	272.9
107.5°	589.9	579.4	564.7	543.7	516.4	482.8	442.9	398.9	352.7	302.3	249.8
110°	554.2	545.8	529.0	510.1	482.8	449.2	413.5	371.6	325.4	279.2	228.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	520.6	512.2	495.4	474.4	451.3	419.8	384.2	344.3	300.2	256.1	207.8
115°	487.0	476.5	461.8	442.9	419.8	390.5	356.9	321.2	277.1	235.1	191.0
117.5°	453.4	445.0	430.3	411.4	390.5	361.1	329.6	296.0	254.0	214.1	174.2
120°	419.8	413.5	398.9	382.1	361.1	333.8	304.4	270.8	233.0	195.2	157.4
122.5°	388.4	382.1	367.4	352.7	331.7	306.5	279.2	247.7	214.1	178.4	144.8
125°	359.0	350.6	338.0	323.3	304.4	281.3	254.0	224.6	193.1	161.6	130.2
127.5°	327.5	321.2	312.8	296.0	277.1	256.1	230.9	205.7	176.3	146.9	117.6
130°	302.3	293.9	283.4	270.8	254.0	233.0	209.9	184.7	159.5	132.3	102.9
132.5°	272.9	264.5	256.1	243.5	228.8	209.9	188.9	165.8	142.7	117.6	92.4
135°	245.6	239.3	230.9	218.3	203.6	188.9	167.9	146.9	126.0	102.9	81.9
137.5°	220.4	214.1	205.7	197.3	182.6	167.9	149.0	130.2	111.3	90.3	71.4
140°	195.2	191.0	182.6	174.2	161.6	146.9	130.2	113.4	96.6	77.7	60.9
142.5°	170.0	165.8	159.5	151.1	140.6	128.1	113.4	98.7	81.9	67.2	52.5
145°	146.9	144.8	138.5	130.2	121.8	109.2	96.6	84.0	69.3	56.7	42.0
147.5°	123.9	121.8	117.6	111.3	102.9	92.4	81.9	69.3	58.8	46.2	33.6
150°	102.9	100.8	98.7	90.3	86.1	75.6	67.2	56.7	48.3	35.7	27.3
152.5°	84.0	84.0	79.8	73.5	69.3	60.9	54.6	46.2	37.8	29.4	21.0
155°	67.2	65.1	63.0	58.8	54.6	48.3	42.0	35.7	29.4	21.0	14.7
157.5°	52.5	50.4	48.3	44.1	39.9	37.8	31.5	25.2	18.9	14.7	10.5
160°	37.8	35.7	33.6	31.5	29.4	25.2	21.0	16.8	12.6	8.4	6.3
162.5°	25.2	23.1	23.1	21.0	18.9	14.7	12.6	10.5	8.4	6.3	4.2
165°	12.6	12.6	10.5	10.5	8.4	6.3	6.3	6.3	4.2	4.2	2.1
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-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1979.6	1979.6	1988.0	1985.9	1979.6	1992.2	2006.8
5°	1973.3	1973.3	1979.6	1979.6	1973.3	1985.9	1998.5
7.5°	1962.8	1960.7	1967.0	1967.0	1958.6	1969.1	1983.8
10°	1943.9	1941.8	1948.1	1948.1	1939.7	1950.2	1962.8
12.5°	1922.9	1918.7	1925.0	1922.9	1914.5	1925.0	1937.6
15°	1895.6	1893.5	1897.7	1893.5	1885.1	1895.6	1908.2
17.5°	1868.3	1862.0	1864.1	1864.1	1849.4	1859.9	1870.4
20°	1832.6	1824.2	1826.3	1824.2	1813.7	1820.0	1832.6
22.5°	1796.9	1784.3	1784.3	1782.2	1769.6	1778.0	1788.5
25°	1752.8	1738.1	1738.1	1736.1	1721.4	1727.7	1738.1
27.5°	1708.8	1694.1	1687.8	1685.7	1671.0	1671.0	1685.7
30°	1662.6	1641.6	1637.4	1631.1	1616.4	1616.4	1629.0
32.5°	1618.5	1589.1	1580.7	1572.3	1557.6	1555.5	1570.2
35°	1559.7	1536.6	1521.9	1513.5	1496.7	1492.5	1505.1
37.5°	1511.4	1482.0	1461.1	1450.6	1433.8	1427.5	1444.3
40°	1459.0	1427.5	1400.2	1393.9	1368.7	1360.3	1375.0
42.5°	1400.2	1366.6	1339.3	1326.7	1307.8	1299.4	1301.5
45°	1341.4	1305.7	1276.3	1259.5	1240.6	1225.9	1234.3
47.5°	1280.5	1249.0	1213.3	1188.2	1165.1	1154.6	1158.8
50°	1219.6	1181.9	1148.3	1121.0	1093.7	1081.1	1089.5
52.5°	1158.8	1118.9	1081.1	1051.7	1020.2	1007.6	1009.7
55°	1100.0	1058.0	1013.9	982.4	953.0	934.2	930.0
57.5°	1041.2	995.0	948.8	913.2	875.4	858.6	852.3
60°	978.2	930.0	881.7	839.7	799.8	780.9	772.5
62.5°	919.5	867.0	812.4	768.3	728.4	703.2	696.9
65°	862.8	801.9	747.3	696.9	652.9	625.6	617.2
67.5°	801.9	738.9	680.1	625.6	583.6	547.9	543.7
70°	745.2	678.0	613.0	556.3	510.1	474.4	457.6
72.5°	688.5	619.3	552.1	491.2	432.4	398.9	386.3
75°	634.0	562.6	491.2	428.2	363.2	323.3	310.7
77.5°	583.6	510.1	434.5	365.3	304.4	254.0	237.2
80°	535.3	459.7	380.0	308.6	243.5	188.9	170.0
82.5°	484.9	413.5	331.7	256.1	188.9	132.3	109.2
85°	440.8	369.5	287.6	212.0	144.8	84.0	58.8
87.5°	405.1	327.5	254.0	178.4	109.2	48.3	16.8
90°	369.5	293.9	220.4	146.9	81.9	27.3	2.1
92.5°	338.0	266.6	193.1	126.0	63.0	18.9	2.1
95°	308.6	239.3	170.0	105.0	50.4	12.6	2.1
97.5°	281.3	216.2	151.1	90.3	42.0	10.5	2.1
100°	258.2	195.2	134.3	79.8	35.7	8.4	2.1
102.5°	235.1	176.3	119.7	69.3	31.5	6.3	2.1
105°	216.2	159.5	107.1	63.0	27.3	6.3	2.1
107.5°	197.3	144.8	96.6	54.6	23.1	4.2	2.1
110°	178.4	132.3	86.1	48.3	21.0	4.2	2.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	163.7	119.7	77.7	44.1	16.8	4.2	2.1
115°	149.0	107.1	69.3	37.8	14.7	2.1	2.1
117.5°	134.3	96.6	60.9	33.6	12.6	2.1	2.1
120°	121.8	86.1	54.6	29.4	10.5	2.1	2.1
122.5°	109.2	77.7	48.3	25.2	8.4	2.1	2.1
125°	98.7	69.3	42.0	21.0	6.3	2.1	2.1
127.5°	88.2	60.9	37.8	18.9	6.3	2.1	2.1
130°	77.7	54.6	31.5	14.7	4.2	2.1	2.1
132.5°	69.3	46.2	27.3	12.6	4.2	2.1	2.1
135°	60.9	39.9	23.1	8.4	4.2	2.1	2.1
137.5°	52.5	33.6	18.9	6.3	2.1	2.1	2.1
140°	44.1	29.4	14.7	6.3	2.1	2.1	2.1
142.5°	37.8	23.1	10.5	4.2	2.1	2.1	2.1
145°	29.4	18.9	8.4	4.2	2.1	2.1	2.1
147.5°	23.1	14.7	6.3	4.2	2.1	2.1	2.1
150°	16.8	10.5	6.3	2.1	2.1	2.1	2.1
152.5°	12.6	8.4	4.2	2.1	2.1	2.1	2.1
155°	8.4	6.3	4.2	2.1	2.1	2.1	2.1
157.5°	6.3	4.2	2.1	2.1	2.1	2.1	2.1
160°	4.2	2.1	2.1	2.1	2.1	2.1	2.1
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)