

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-LD5-120SL-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-LD5-120SL-LW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

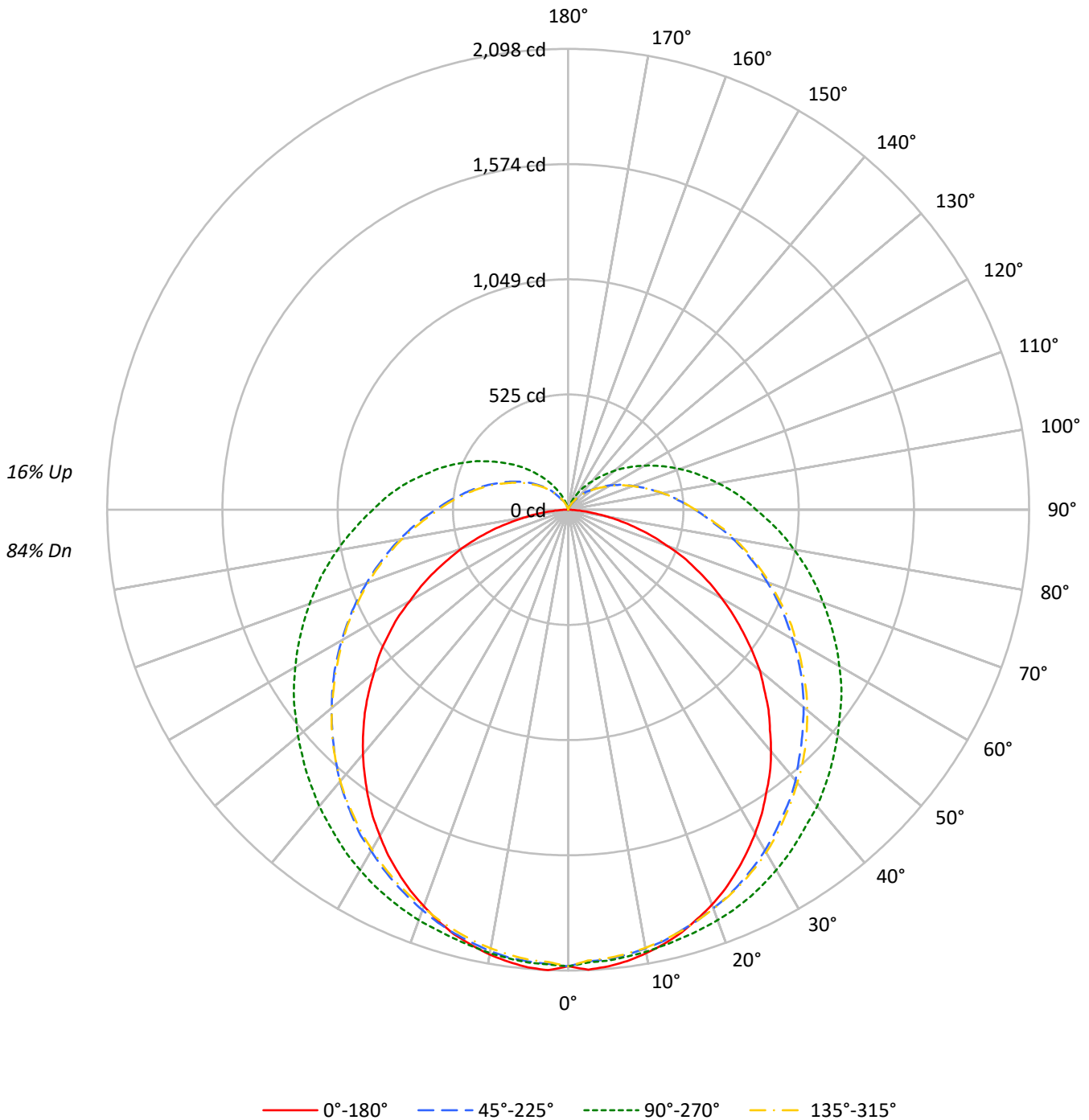
Lumens per Lamp: N/A
Luminaire Lumens: 9030.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 92
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	
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°	8398	8398	8398	8398
5°	8454	8093	8472	8128
10°	8387	7863	8414	7888
15°	8302	7667	8338	7674
20°	8183	7523	8212	7523
25°	8034	7395	8083	7387
30°	7867	7264	7928	7264
35°	7670	7142	7755	7151
40°	7477	7070	7568	7070
45°	7253	6996	7364	7005
50°	7022	6951	7116	6970
55°	6693	6958	6904	6988
60°	6348	6979	6555	7022
65°	5963	7049	6227	7119
70°	5414	7178	5836	7281
75°	4787	7413	5240	7556
80°	3796	7761	4311	7940
85°	2415	8318	3017	8549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	2.2
10°-20°	565.9	6.3
20°-30°	867.6	9.6
30°-40°	1070.3	11.9
40°-50°	1161.2	12.9
50°-60°	1144.5	12.7
60°-70°	1034.8	11.5
70°-80°	862.1	9.5
80°-90°	667.7	7.4
90°-100°	506.4	5.6
100°-110°	374.7	4.1
110°-120°	260.7	2.9
120°-130°	166.3	1.8
130°-140°	93.3	1.0
140°-150°	42.6	0.5
150°-160°	13.2	0.1
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1630.4	18.1
0°-40°	2700.7	29.9
0°-60°	5006.5	55.4
0°-90°	7571.1	83.8
90°-120°	1141.8	12.6
90°-150°	1444.1	16.0
90°-180°	1459.0	16.2
0°-180°	9030.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2078	2078	2078	2078	2078	
5°	2087	2061	2092	2070	2087	198
15°	1993	2017	2002	2019	1993	562
25°	1815	1949	1826	1947	1815	836
35°	1572	1828	1590	1831	1572	984
45°	1289	1684	1309	1686	1289	993
55°	971	1517	1002	1524	971	869
65°	645	1331	673	1344	645	639
75°	324	1140	355	1162	324	344
85°	61	949	77	976	61	74
90°	2	855	4	888	2	3
95°	2	776	2	813	2	2
105°	2	616	2	653	2	2
115°	2	469	2	511	2	2
125°	2	338	2	375	2	2
135°	2	219	2	259	2	2
145°	2	127	2	156	2	1
155°	2	53	2	72	2	1
165°	2	9	2	13	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2096.0	2096.0	2093.8	2089.4	2091.6	2098.2	2093.8	2082.8	2076.2	2058.7	2063.1
5°	2087.2	2087.2	2085.0	2080.6	2082.8	2091.6	2087.2	2078.4	2069.7	2054.3	2060.9
7.5°	2071.9	2071.9	2069.7	2065.3	2069.7	2078.4	2074.1	2065.3	2058.7	2043.4	2049.9
10°	2049.9	2052.1	2049.9	2043.4	2052.1	2060.9	2058.7	2047.7	2041.2	2028.0	2034.6
12.5°	2023.6	2025.8	2023.6	2021.4	2025.8	2039.0	2034.6	2025.8	2021.4	2010.5	2017.1
15°	1992.9	1995.1	1990.7	1990.7	1995.1	2008.3	2008.3	1999.5	1995.1	1984.2	1997.3
17.5°	1953.5	1955.7	1953.5	1953.5	1957.9	1971.0	1973.2	1968.8	1964.4	1960.0	1973.2
20°	1914.0	1911.8	1911.8	1909.6	1918.4	1938.1	1935.9	1935.9	1931.5	1931.5	1946.9
22.5°	1868.0	1868.0	1865.8	1865.8	1876.7	1894.3	1894.3	1898.7	1894.3	1903.0	1916.2
25°	1815.3	1817.5	1815.3	1819.7	1828.5	1848.2	1850.4	1857.0	1859.2	1868.0	1883.3
27.5°	1760.5	1762.7	1760.5	1764.9	1780.3	1795.6	1806.6	1815.3	1817.5	1830.7	1850.4
30°	1701.3	1701.3	1703.5	1707.9	1725.5	1749.6	1758.3	1769.3	1769.3	1791.2	1811.0
32.5°	1640.0	1640.0	1640.0	1648.7	1668.5	1697.0	1707.9	1721.1	1725.5	1747.4	1769.3
35°	1572.0	1574.2	1574.2	1580.8	1607.1	1635.6	1650.9	1666.3	1675.0	1701.3	1723.3
37.5°	1508.4	1512.8	1506.2	1515.0	1552.3	1576.4	1593.9	1609.3	1624.6	1659.7	1677.2
40°	1436.1	1440.4	1438.2	1455.8	1486.5	1517.2	1536.9	1552.3	1574.2	1609.3	1629.0
42.5°	1359.3	1363.7	1368.1	1387.8	1420.7	1451.4	1475.5	1495.2	1521.6	1552.3	1585.1
45°	1289.2	1289.2	1295.7	1319.9	1354.9	1387.8	1416.3	1438.2	1468.9	1501.8	1534.7
47.5°	1210.2	1212.4	1221.2	1249.7	1287.0	1326.4	1352.7	1381.2	1414.1	1449.2	1486.5
50°	1137.9	1137.9	1151.0	1181.7	1216.8	1260.7	1289.2	1322.0	1357.1	1398.8	1436.1
52.5°	1054.6	1059.0	1078.7	1107.2	1153.2	1192.7	1225.6	1260.7	1302.3	1346.2	1387.8
55°	971.3	980.0	995.4	1034.8	1083.1	1120.3	1159.8	1203.7	1243.1	1291.4	1339.6
57.5°	890.1	896.7	920.8	960.3	1010.7	1056.8	1098.4	1140.1	1188.3	1236.5	1287.0
60°	806.8	815.6	844.1	883.6	938.4	986.6	1034.8	1078.7	1129.1	1179.5	1232.2
62.5°	727.9	734.5	767.4	813.4	868.2	920.8	969.1	1021.7	1076.5	1124.7	1177.3
65°	644.6	655.5	692.8	734.5	798.1	850.7	905.5	962.5	1019.5	1072.1	1122.5
67.5°	567.8	574.4	613.9	662.1	725.7	784.9	841.9	903.3	962.5	1017.3	1067.7
70°	478.0	499.9	539.3	589.8	657.7	719.1	780.5	844.1	907.7	964.7	1012.9
72.5°	403.4	421.0	464.8	519.6	585.4	657.7	721.3	789.3	852.9	912.1	962.5
75°	324.5	342.0	392.4	453.8	521.8	598.5	664.3	734.5	800.2	859.4	912.1
77.5°	247.7	269.7	324.5	388.1	462.6	541.5	609.5	679.7	747.6	811.2	863.8
80°	177.6	201.7	260.9	333.3	405.6	484.5	559.1	629.2	697.2	760.8	815.6
82.5°	114.0	140.3	203.9	276.2	353.0	431.9	508.6	578.8	646.8	710.4	767.4
85°	61.4	89.9	155.7	228.0	304.8	383.7	460.4	535.0	600.7	659.9	721.3
87.5°	17.5	52.6	116.2	188.6	267.5	339.8	414.4	488.9	554.7	618.3	673.1
90°	2.2	30.7	87.7	155.7	232.4	302.6	377.1	447.3	513.0	576.6	631.4
92.5°	2.2	19.7	68.0	129.4	199.5	271.9	346.4	414.4	475.8	539.3	594.2
95°	2.2	15.3	54.8	109.6	175.4	243.4	313.5	379.3	442.9	502.1	556.9
97.5°	2.2	11.0	43.8	94.3	153.5	217.1	285.0	350.8	412.2	469.2	519.6
100°	2.2	8.8	35.1	81.1	133.7	195.1	256.5	320.1	379.3	434.1	486.7
102.5°	2.2	6.6	30.7	68.0	118.4	173.2	232.4	291.6	348.6	401.2	453.8
105°	2.2	6.6	26.3	59.2	105.2	155.7	210.5	267.5	320.1	370.5	418.8
107.5°	2.2	4.4	21.9	50.4	92.1	140.3	190.7	245.6	293.8	342.0	388.1
110°	2.2	4.4	17.5	46.0	81.1	125.0	173.2	223.6	269.7	315.7	359.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.2	4.4	15.3	39.5	70.2	111.8	155.7	201.7	245.6	291.6	331.1
115°	2.2	4.4	13.2	35.1	65.8	96.5	140.3	182.0	225.8	267.5	304.8
117.5°	2.2	4.4	11.0	28.5	57.0	87.7	122.8	164.4	203.9	243.4	278.4
120°	2.2	4.4	8.8	26.3	50.4	78.9	109.6	146.9	184.2	221.4	258.7
122.5°	2.2	2.2	8.8	21.9	43.8	70.2	100.9	129.4	164.4	199.5	232.4
125°	2.2	2.2	8.8	19.7	37.3	63.6	89.9	116.2	146.9	177.6	206.1
127.5°	2.2	2.2	6.6	15.3	32.9	54.8	78.9	107.4	129.4	157.9	186.4
130°	2.2	2.2	6.6	13.2	28.5	46.0	70.2	94.3	120.6	140.3	164.4
132.5°	2.2	2.2	6.6	11.0	21.9	37.3	59.2	81.1	105.2	127.2	146.9
135°	2.2	2.2	4.4	8.8	17.5	30.7	48.2	68.0	92.1	114.0	133.7
137.5°	2.2	2.2	4.4	8.8	13.2	26.3	37.3	54.8	76.7	96.5	116.2
140°	2.2	2.2	4.4	6.6	11.0	19.7	30.7	43.8	61.4	78.9	100.9
142.5°	2.2	2.2	2.2	6.6	8.8	15.3	24.1	35.1	48.2	63.6	81.1
145°	2.2	2.2	2.2	6.6	8.8	11.0	19.7	28.5	37.3	48.2	63.6
147.5°	2.2	2.2	2.2	4.4	6.6	8.8	15.3	21.9	28.5	37.3	46.0
150°	2.2	2.2	2.2	4.4	6.6	8.8	11.0	15.3	21.9	30.7	37.3
152.5°	2.2	2.2	2.2	4.4	4.4	6.6	8.8	11.0	15.3	21.9	26.3
155°	2.2	2.2	2.2	2.2	4.4	6.6	8.8	8.8	11.0	15.3	19.7
157.5°	2.2	2.2	2.2	2.2	4.4	4.4	6.6	6.6	8.8	8.8	13.2
160°	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.6	6.6	6.6	6.6
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4	6.6	6.6
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2063.1	2065.3	2071.9	2071.9	2067.5	2067.5	2065.3	2063.1	2065.3	2069.7	2069.7
5°	2058.7	2060.9	2067.5	2069.7	2065.3	2063.1	2063.1	2060.9	2063.1	2067.5	2067.5
7.5°	2049.9	2052.1	2058.7	2060.9	2056.5	2056.5	2054.3	2052.1	2056.5	2058.7	2058.7
10°	2036.8	2039.0	2047.7	2049.9	2047.7	2045.6	2045.6	2043.4	2045.6	2049.9	2049.9
12.5°	2019.2	2023.6	2034.6	2034.6	2034.6	2032.4	2032.4	2030.2	2032.4	2036.8	2034.6
15°	1999.5	2008.3	2017.1	2021.4	2021.4	2021.4	2019.2	2017.1	2021.4	2023.6	2021.4
17.5°	1977.6	1988.6	2001.7	2006.1	2006.1	2008.3	2006.1	2003.9	2008.3	2008.3	2006.1
20°	1955.7	1966.6	1979.8	1984.2	1988.6	1990.7	1990.7	1988.6	1990.7	1992.9	1990.7
22.5°	1927.2	1940.3	1955.7	1962.2	1966.6	1971.0	1971.0	1971.0	1973.2	1975.4	1971.0
25°	1896.5	1911.8	1929.4	1935.9	1944.7	1946.9	1949.1	1949.1	1951.3	1953.5	1946.9
27.5°	1863.6	1881.1	1898.7	1909.6	1916.2	1920.6	1920.6	1922.8	1925.0	1927.2	1920.6
30°	1824.1	1850.4	1865.8	1874.5	1883.3	1889.9	1892.1	1894.3	1896.5	1898.7	1892.1
32.5°	1789.0	1811.0	1830.7	1841.7	1852.6	1861.4	1863.6	1863.6	1868.0	1868.0	1861.4
35°	1747.4	1773.7	1793.4	1804.4	1817.5	1824.1	1828.5	1828.5	1832.9	1832.9	1826.3
37.5°	1705.7	1732.0	1754.0	1767.1	1782.5	1791.2	1793.4	1793.4	1797.8	1797.8	1789.0
40°	1661.9	1690.4	1714.5	1729.8	1743.0	1754.0	1756.2	1762.7	1762.7	1760.5	1751.8
42.5°	1618.0	1644.3	1670.6	1688.2	1705.7	1716.7	1721.1	1723.3	1723.3	1721.1	1714.5
45°	1569.8	1600.5	1624.6	1646.5	1664.1	1675.0	1681.6	1683.8	1683.8	1679.4	1672.8
47.5°	1523.8	1554.4	1578.6	1602.7	1620.2	1633.4	1640.0	1642.1	1640.0	1637.8	1631.2
50°	1475.5	1510.6	1534.7	1558.8	1576.4	1587.3	1598.3	1600.5	1598.3	1596.1	1582.9
52.5°	1425.1	1462.4	1488.7	1512.8	1532.5	1545.7	1554.4	1556.6	1556.6	1552.3	1543.5
55°	1374.7	1407.6	1440.4	1466.7	1488.7	1501.8	1512.8	1517.2	1512.8	1508.4	1497.4
57.5°	1328.6	1359.3	1392.2	1420.7	1442.6	1460.2	1468.9	1473.3	1468.9	1462.4	1451.4
60°	1273.8	1306.7	1344.0	1370.3	1394.4	1411.9	1416.3	1425.1	1420.7	1414.1	1403.2
62.5°	1221.2	1260.7	1293.5	1326.4	1346.2	1365.9	1374.7	1379.1	1374.7	1368.1	1357.1
65°	1166.4	1210.2	1243.1	1276.0	1297.9	1317.7	1328.6	1330.8	1326.4	1319.9	1308.9
67.5°	1116.0	1157.6	1192.7	1227.8	1247.5	1267.2	1278.2	1282.6	1278.2	1269.4	1258.5
70°	1065.5	1107.2	1148.8	1175.2	1199.3	1221.2	1227.8	1234.3	1230.0	1221.2	1208.0
72.5°	1015.1	1059.0	1100.6	1126.9	1153.2	1173.0	1181.7	1188.3	1183.9	1175.2	1159.8
75°	962.5	1008.5	1050.2	1078.7	1105.0	1124.7	1133.5	1140.1	1135.7	1126.9	1109.4
77.5°	914.3	960.3	999.8	1030.5	1056.8	1074.3	1089.6	1091.8	1087.5	1078.7	1061.1
80°	863.8	909.9	951.5	982.2	1008.5	1026.1	1037.0	1043.6	1039.2	1030.5	1012.9
82.5°	820.0	861.6	903.3	934.0	960.3	982.2	991.0	997.6	995.4	982.2	969.1
85°	771.7	820.0	852.9	885.7	912.1	934.0	940.6	949.3	947.1	936.2	918.6
87.5°	723.5	771.7	811.2	844.1	868.2	885.7	896.7	901.1	898.9	887.9	868.2
90°	684.0	727.9	767.4	802.4	822.2	841.9	852.9	855.1	855.1	841.9	826.6
92.5°	646.8	688.4	727.9	760.8	784.9	802.4	811.2	815.6	813.4	802.4	784.9
95°	605.1	651.2	688.4	721.3	745.4	763.0	771.7	776.1	773.9	763.0	745.4
97.5°	570.0	611.7	649.0	679.7	703.8	721.3	730.1	734.5	734.5	723.5	706.0
100°	535.0	576.6	611.7	642.4	664.3	681.9	690.6	692.8	690.6	681.9	664.3
102.5°	499.9	539.3	574.4	602.9	627.0	642.4	651.2	653.3	653.3	642.4	624.8
105°	464.8	504.3	537.1	567.8	587.6	602.9	609.5	616.1	613.9	605.1	587.6
107.5°	431.9	471.4	502.1	530.6	550.3	565.7	572.2	578.8	576.6	567.8	550.3
110°	401.2	438.5	467.0	495.5	513.0	528.4	539.3	541.5	537.1	528.4	513.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	372.7	405.6	434.1	460.4	480.1	491.1	499.9	504.3	499.9	491.1	480.1
115°	342.0	374.9	403.4	427.5	445.1	458.2	464.8	469.2	464.8	456.0	445.1
117.5°	313.5	344.2	372.7	396.8	412.2	423.1	429.7	434.1	429.7	423.1	412.2
120°	289.4	315.7	342.0	363.9	381.5	390.3	396.8	401.2	399.0	390.3	379.3
122.5°	260.9	289.4	313.5	335.4	350.8	359.6	363.9	368.3	366.1	359.6	348.6
125°	236.8	260.9	285.0	304.8	320.1	328.9	333.3	337.6	335.4	328.9	315.7
127.5°	210.5	236.8	256.5	276.2	287.2	300.4	302.6	306.9	304.8	298.2	287.2
130°	190.7	210.5	230.2	247.7	260.9	269.7	274.1	276.2	271.9	267.5	256.5
132.5°	166.6	188.6	206.1	221.4	230.2	239.0	243.4	245.6	245.6	239.0	230.2
135°	149.1	164.4	179.8	195.1	203.9	212.7	217.1	219.2	217.1	212.7	203.9
137.5°	133.7	146.9	157.9	171.0	182.0	186.4	190.7	190.7	188.6	186.4	179.8
140°	116.2	131.5	142.5	151.3	160.0	162.2	166.6	166.6	164.4	162.2	157.9
142.5°	98.7	111.8	122.8	133.7	140.3	144.7	146.9	149.1	146.9	144.7	138.1
145°	78.9	94.3	105.2	111.8	120.6	122.8	125.0	127.2	125.0	122.8	116.2
147.5°	61.4	74.5	85.5	94.3	100.9	103.0	105.2	107.4	105.2	100.9	98.7
150°	43.8	54.8	68.0	76.7	81.1	85.5	85.5	85.5	87.7	83.3	78.9
152.5°	35.1	39.5	48.2	57.0	63.6	65.8	68.0	68.0	65.8	65.8	61.4
155°	24.1	28.5	35.1	41.7	48.2	50.4	52.6	52.6	50.4	50.4	48.2
157.5°	15.3	19.7	24.1	28.5	35.1	37.3	39.5	39.5	39.5	37.3	35.1
160°	8.8	11.0	13.2	17.5	21.9	24.1	26.3	26.3	26.3	26.3	24.1
162.5°	6.6	6.6	6.6	8.8	11.0	13.2	15.3	15.3	15.3	15.3	13.2
165°	4.4	4.4	4.4	4.4	4.4	6.6	8.8	8.8	8.8	8.8	8.8
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-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2067.5	2067.5	2069.7	2065.3	2052.1	2054.3	2054.3	2063.1	2067.5	2069.7	2080.6
5°	2063.1	2063.1	2067.5	2060.9	2049.9	2049.9	2049.9	2058.7	2060.9	2065.3	2074.1
7.5°	2056.5	2056.5	2058.7	2052.1	2039.0	2039.0	2036.8	2045.6	2049.9	2052.1	2060.9
10°	2045.6	2045.6	2047.7	2041.2	2025.8	2025.8	2023.6	2030.2	2032.4	2036.8	2043.4
12.5°	2030.2	2030.2	2030.2	2023.6	2008.3	2006.1	2003.9	2010.5	2010.5	2012.7	2019.2
15°	2017.1	2012.7	2012.7	2006.1	1990.7	1986.4	1982.0	1984.2	1988.6	1986.4	1990.7
17.5°	2001.7	1997.3	1992.9	1986.4	1966.6	1960.0	1955.7	1957.9	1955.7	1953.5	1957.9
20°	1984.2	1977.6	1975.4	1964.4	1944.7	1933.7	1925.0	1920.6	1922.8	1916.2	1918.4
22.5°	1964.4	1955.7	1951.3	1938.1	1918.4	1905.2	1894.3	1885.5	1883.3	1874.5	1876.7
25°	1940.3	1929.4	1922.8	1911.8	1889.9	1874.5	1861.4	1848.2	1841.7	1830.7	1828.5
27.5°	1911.8	1900.9	1892.1	1881.1	1859.2	1839.5	1824.1	1806.6	1797.8	1784.7	1778.1
30°	1883.3	1870.2	1857.0	1848.2	1824.1	1802.2	1778.1	1762.7	1749.6	1734.2	1723.3
32.5°	1848.2	1835.1	1821.9	1808.8	1786.8	1760.5	1740.8	1716.7	1701.3	1683.8	1670.6
35°	1813.2	1795.6	1782.5	1764.9	1745.2	1714.5	1690.4	1666.3	1646.5	1626.8	1611.4
37.5°	1773.7	1760.5	1740.8	1725.5	1701.3	1670.6	1644.3	1613.6	1596.1	1569.8	1550.1
40°	1736.4	1721.1	1701.3	1681.6	1657.5	1622.4	1593.9	1558.8	1539.1	1508.4	1488.7
42.5°	1699.1	1677.2	1657.5	1635.6	1609.3	1576.4	1541.3	1506.2	1479.9	1451.4	1422.9
45°	1657.5	1633.4	1609.3	1585.1	1558.8	1525.9	1488.7	1451.4	1418.5	1392.2	1357.1
47.5°	1613.6	1589.5	1561.0	1534.7	1506.2	1473.3	1433.9	1394.4	1359.3	1328.6	1291.4
50°	1569.8	1545.7	1515.0	1486.5	1453.6	1420.7	1379.1	1333.0	1295.7	1256.3	1223.4
52.5°	1523.8	1499.6	1471.1	1433.9	1398.8	1365.9	1322.0	1273.8	1232.2	1199.3	1157.6
55°	1477.7	1453.6	1420.7	1383.4	1348.4	1306.7	1265.0	1216.8	1170.8	1131.3	1089.6
57.5°	1429.5	1407.6	1370.3	1339.6	1295.7	1251.9	1208.0	1162.0	1111.6	1065.5	1017.3
60°	1381.2	1357.1	1322.0	1284.8	1240.9	1197.1	1151.0	1100.6	1048.0	997.6	953.7
62.5°	1337.4	1306.7	1273.8	1234.3	1188.3	1146.7	1094.0	1039.2	986.6	934.0	881.4
65°	1287.0	1254.1	1223.4	1183.9	1135.7	1087.5	1034.8	980.0	923.0	866.0	813.4
67.5°	1236.5	1203.7	1170.8	1131.3	1080.9	1030.5	975.6	920.8	857.2	802.4	741.0
70°	1186.1	1159.8	1118.1	1076.5	1030.5	975.6	920.8	861.6	795.9	736.7	673.1
72.5°	1135.7	1109.4	1067.7	1023.9	980.0	923.0	863.8	804.6	743.2	675.3	607.3
75°	1087.5	1054.6	1017.3	975.6	929.6	870.4	811.2	749.8	677.5	613.9	543.7
77.5°	1041.4	1010.7	973.4	927.4	877.0	820.0	758.6	695.0	622.7	554.7	478.0
80°	991.0	960.3	923.0	877.0	826.6	771.7	706.0	640.2	570.0	495.5	416.6
82.5°	942.8	914.3	872.6	830.9	776.1	721.3	655.5	589.8	515.2	442.9	366.1
85°	892.3	863.8	824.4	780.5	727.9	668.7	607.3	541.5	467.0	392.4	315.7
87.5°	848.5	815.6	776.1	732.3	679.7	622.7	563.5	493.3	421.0	348.6	269.7
90°	802.4	771.7	732.3	688.4	635.8	578.8	517.4	451.6	381.5	306.9	232.4
92.5°	763.0	730.1	692.8	649.0	596.3	541.5	480.1	414.4	346.4	274.1	201.7
95°	723.5	690.6	655.5	611.7	559.1	504.3	442.9	379.3	313.5	243.4	175.4
97.5°	679.7	651.2	616.1	574.4	521.8	469.2	410.0	348.6	285.0	217.1	153.5
100°	644.6	611.7	578.8	535.0	486.7	436.3	377.1	317.9	256.5	192.9	133.7
102.5°	605.1	574.4	541.5	499.9	451.6	401.2	346.4	289.4	232.4	173.2	116.2
105°	567.8	539.3	504.3	464.8	418.8	370.5	317.9	265.3	210.5	153.5	103.0
107.5°	530.6	502.1	469.2	431.9	388.1	339.8	291.6	239.0	188.6	138.1	92.1
110°	493.3	467.0	436.3	399.0	357.4	313.5	267.5	219.2	168.8	122.8	81.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.4	434.1	403.4	368.3	328.9	287.2	243.4	197.3	151.3	109.6	70.2
115°	427.5	403.4	372.7	342.0	302.6	263.1	221.4	177.6	135.9	98.7	61.4
117.5°	394.6	370.5	342.0	311.3	276.2	239.0	199.5	157.9	122.8	87.7	54.8
120°	361.8	339.8	313.5	285.0	254.3	217.1	177.6	142.5	109.6	76.7	48.2
122.5°	331.1	311.3	287.2	260.9	228.0	192.9	160.0	129.4	98.7	68.0	39.5
125°	302.6	282.8	260.9	234.6	203.9	173.2	144.7	116.2	85.5	59.2	32.9
127.5°	274.1	254.3	232.4	208.3	184.2	155.7	129.4	103.0	76.7	52.6	28.5
130°	245.6	228.0	208.3	188.6	164.4	138.1	116.2	89.9	65.8	41.7	24.1
132.5°	217.1	203.9	186.4	166.6	144.7	125.0	100.9	78.9	57.0	37.3	21.9
135°	192.9	179.8	164.4	146.9	129.4	109.6	87.7	68.0	48.2	30.7	17.5
137.5°	171.0	160.0	144.7	129.4	114.0	94.3	76.7	57.0	39.5	26.3	13.2
140°	151.3	140.3	127.2	111.8	98.7	81.1	63.6	46.0	35.1	21.9	11.0
142.5°	131.5	120.6	109.6	96.5	83.3	68.0	52.6	39.5	28.5	17.5	11.0
145°	111.8	103.0	92.1	81.1	68.0	54.8	43.8	32.9	21.9	13.2	8.8
147.5°	92.1	85.5	74.5	65.8	54.8	43.8	35.1	26.3	17.5	11.0	6.6
150°	74.5	68.0	59.2	50.4	43.8	35.1	28.5	19.7	13.2	11.0	6.6
152.5°	57.0	52.6	46.0	41.7	35.1	26.3	19.7	15.3	11.0	8.8	4.4
155°	46.0	41.7	37.3	30.7	26.3	19.7	15.3	11.0	8.8	6.6	4.4
157.5°	32.9	30.7	26.3	21.9	17.5	13.2	11.0	11.0	6.6	4.4	2.2
160°	21.9	19.7	17.5	13.2	11.0	11.0	8.8	6.6	4.4	4.4	2.2
162.5°	13.2	11.0	11.0	11.0	8.8	8.8	6.6	4.4	4.4	2.2	2.2
165°	8.8	8.8	8.8	6.6	6.6	6.6	4.4	2.2	2.2	2.2	2.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2080.6	2074.1	2082.8	2098.2	2100.4	2098.2	2093.8	2100.4	2109.1	2106.9	2091.6
5°	2076.2	2067.5	2076.2	2091.6	2091.6	2089.4	2087.2	2093.8	2102.6	2100.4	2087.2
7.5°	2063.1	2054.3	2063.1	2076.2	2078.4	2074.1	2074.1	2080.6	2089.4	2087.2	2076.2
10°	2045.6	2036.8	2041.2	2056.5	2060.9	2056.5	2056.5	2063.1	2074.1	2071.9	2058.7
12.5°	2019.2	2012.7	2017.1	2030.2	2034.6	2032.4	2030.2	2039.0	2049.9	2049.9	2036.8
15°	1990.7	1982.0	1986.4	2001.7	2003.9	1999.5	2001.7	2008.3	2021.4	2021.4	2010.5
17.5°	1957.9	1946.9	1953.5	1964.4	1966.6	1966.6	1966.6	1975.4	1990.7	1988.6	1979.8
20°	1920.6	1905.2	1909.6	1920.6	1925.0	1925.0	1925.0	1940.3	1951.3	1951.3	1942.5
22.5°	1876.7	1865.8	1865.8	1876.7	1883.3	1881.1	1881.1	1894.3	1909.6	1907.4	1907.4
25°	1826.3	1817.5	1813.2	1826.3	1828.5	1830.7	1835.1	1848.2	1865.8	1865.8	1868.0
27.5°	1773.7	1764.9	1762.7	1773.7	1775.9	1778.1	1782.5	1797.8	1815.3	1817.5	1821.9
30°	1723.3	1710.1	1705.7	1714.5	1718.9	1721.1	1721.1	1745.2	1760.5	1767.1	1775.9
32.5°	1664.1	1650.9	1640.0	1655.3	1657.5	1661.9	1664.1	1688.2	1705.7	1716.7	1729.8
35°	1604.9	1582.9	1578.6	1589.5	1593.9	1596.1	1600.5	1626.8	1650.9	1659.7	1677.2
37.5°	1539.1	1523.8	1510.6	1521.6	1525.9	1528.1	1541.3	1565.4	1589.5	1602.7	1620.2
40°	1477.7	1458.0	1447.0	1453.6	1458.0	1460.2	1475.5	1501.8	1530.3	1545.7	1567.6
42.5°	1409.7	1383.4	1374.7	1381.2	1383.4	1390.0	1403.2	1438.2	1466.7	1488.7	1506.2
45°	1341.8	1322.0	1302.3	1308.9	1311.1	1315.5	1335.2	1372.5	1403.2	1429.5	1449.2
47.5°	1271.6	1247.5	1227.8	1232.2	1240.9	1243.1	1265.0	1308.9	1337.4	1365.9	1392.2
50°	1201.5	1168.6	1153.2	1153.2	1157.6	1168.6	1197.1	1240.9	1271.6	1304.5	1333.0
52.5°	1129.1	1098.4	1080.9	1083.1	1087.5	1100.6	1126.9	1170.8	1205.8	1240.9	1276.0
55°	1056.8	1023.9	1006.3	1001.9	1006.3	1023.9	1054.6	1100.6	1135.7	1177.3	1214.6
57.5°	984.4	944.9	929.6	923.0	927.4	949.3	980.0	1028.3	1072.1	1111.6	1155.4
60°	905.5	874.8	848.5	833.1	844.1	872.6	905.5	955.9	1001.9	1045.8	1094.0
62.5°	837.5	798.1	769.5	754.2	765.2	789.3	835.3	883.6	934.0	984.4	1032.6
65°	760.8	721.3	688.4	673.1	684.0	712.5	758.6	811.2	866.0	916.4	973.4
67.5°	686.2	644.6	605.1	589.8	602.9	633.6	684.0	743.2	802.4	855.1	916.4
70°	613.9	567.8	526.2	515.2	524.0	565.7	613.9	673.1	734.5	795.9	859.4
72.5°	548.1	491.1	447.3	434.1	445.1	491.1	545.9	607.3	673.1	738.9	806.8
75°	471.4	418.8	370.5	355.2	368.3	410.0	478.0	543.7	613.9	684.0	747.6
77.5°	410.0	348.6	298.2	274.1	296.0	348.6	414.4	484.5	556.9	629.2	701.6
80°	346.4	282.8	228.0	201.7	225.8	282.8	348.6	425.3	506.5	578.8	644.6
82.5°	289.4	221.4	164.4	135.9	162.2	225.8	298.2	374.9	453.8	526.2	602.9
85°	236.8	166.6	107.4	76.7	114.0	171.0	247.7	326.7	407.8	482.3	556.9
87.5°	192.9	125.0	65.8	32.9	70.2	133.7	206.1	285.0	366.1	440.7	510.8
90°	157.9	89.9	35.1	4.4	41.7	100.9	171.0	247.7	324.5	401.2	471.4
92.5°	129.4	68.0	19.7	2.2	26.3	81.1	146.9	219.2	293.8	368.3	436.3
95°	107.4	52.6	13.2	2.2	19.7	63.6	125.0	195.1	265.3	337.6	405.6
97.5°	92.1	43.8	11.0	2.2	15.3	54.8	107.4	173.2	241.2	309.1	374.9
100°	78.9	35.1	8.8	2.2	13.2	46.0	94.3	153.5	217.1	282.8	346.4
102.5°	68.0	28.5	6.6	2.2	11.0	39.5	83.3	138.1	195.1	258.7	320.1
105°	59.2	24.1	6.6	2.2	8.8	35.1	74.5	122.8	179.8	236.8	296.0
107.5°	50.4	19.7	4.4	2.2	6.6	28.5	65.8	111.8	162.2	217.1	271.9
110°	43.8	17.5	4.4	2.2	6.6	26.3	57.0	100.9	146.9	197.3	249.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	37.3	13.2	4.4	2.2	4.4	21.9	50.4	89.9	133.7	179.8	230.2
115°	32.9	11.0	2.2	2.2	4.4	19.7	46.0	81.1	120.6	164.4	210.5
117.5°	26.3	8.8	2.2	2.2	2.2	15.3	39.5	72.4	109.6	151.3	192.9
120°	21.9	8.8	2.2	2.2	2.2	13.2	35.1	63.6	98.7	135.9	175.4
122.5°	19.7	6.6	2.2	2.2	2.2	11.0	30.7	57.0	87.7	122.8	160.0
125°	17.5	6.6	2.2	2.2	2.2	8.8	26.3	50.4	78.9	109.6	144.7
127.5°	13.2	6.6	2.2	2.2	2.2	6.6	24.1	43.8	70.2	98.7	129.4
130°	11.0	4.4	2.2	2.2	2.2	6.6	19.7	39.5	61.4	87.7	116.2
132.5°	8.8	4.4	2.2	2.2	2.2	4.4	15.3	30.7	52.6	76.7	103.0
135°	8.8	4.4	2.2	2.2	2.2	4.4	11.0	26.3	43.8	65.8	87.7
137.5°	8.8	2.2	2.2	2.2	2.2	4.4	8.8	19.7	35.1	52.6	72.4
140°	6.6	2.2	2.2	2.2	2.2	2.2	6.6	15.3	28.5	43.8	61.4
142.5°	6.6	2.2	2.2	2.2	2.2	2.2	6.6	11.0	21.9	35.1	48.2
145°	4.4	2.2	2.2	2.2	2.2	2.2	4.4	8.8	17.5	26.3	39.5
147.5°	4.4	2.2	2.2	2.2	2.2	2.2	4.4	6.6	13.2	21.9	30.7
150°	4.4	2.2	2.2	2.2	2.2	2.2	4.4	6.6	8.8	15.3	24.1
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.6	11.0	15.3
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.6	8.8	11.0
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.6	8.8
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.6
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2085.0	2069.7	2074.1	2071.9	2076.2	2082.8	2082.8	2080.6	2080.6	2076.2	2071.9
5°	2080.6	2065.3	2071.9	2069.7	2074.1	2080.6	2080.6	2078.4	2078.4	2071.9	2069.7
7.5°	2067.5	2056.5	2060.9	2060.9	2065.3	2071.9	2071.9	2069.7	2069.7	2063.1	2060.9
10°	2054.3	2041.2	2047.7	2047.7	2052.1	2060.9	2060.9	2058.7	2058.7	2052.1	2049.9
12.5°	2032.4	2019.2	2030.2	2032.4	2036.8	2045.6	2043.4	2043.4	2043.4	2036.8	2034.6
15°	2006.1	1997.3	2008.3	2010.5	2017.1	2028.0	2028.0	2028.0	2028.0	2021.4	2019.2
17.5°	1977.6	1971.0	1982.0	1986.4	1995.1	2006.1	2006.1	2008.3	2010.5	2006.1	2003.9
20°	1944.7	1940.3	1951.3	1960.0	1973.2	1984.2	1988.6	1990.7	1995.1	1990.7	1988.6
22.5°	1907.4	1907.4	1922.8	1931.5	1946.9	1957.9	1964.4	1971.0	1975.4	1971.0	1968.8
25°	1865.8	1872.4	1887.7	1903.0	1920.6	1931.5	1938.1	1946.9	1951.3	1949.1	1946.9
27.5°	1826.3	1835.1	1854.8	1870.2	1885.5	1903.0	1909.6	1920.6	1925.0	1925.0	1922.8
30°	1780.3	1793.4	1815.3	1832.9	1852.6	1870.2	1878.9	1889.9	1896.5	1892.1	1894.3
32.5°	1736.4	1758.3	1775.9	1795.6	1817.5	1835.1	1846.0	1859.2	1865.8	1863.6	1865.8
35°	1688.2	1710.1	1734.2	1754.0	1780.3	1797.8	1813.2	1824.1	1832.9	1830.7	1830.7
37.5°	1635.6	1664.1	1688.2	1714.5	1738.6	1758.3	1773.7	1786.8	1795.6	1795.6	1795.6
40°	1585.1	1615.8	1640.0	1670.6	1701.3	1718.9	1736.4	1749.6	1758.3	1760.5	1762.7
42.5°	1530.3	1563.2	1591.7	1624.6	1655.3	1677.2	1697.0	1712.3	1721.1	1725.5	1723.3
45°	1479.9	1510.6	1543.5	1580.8	1609.3	1631.2	1655.3	1672.8	1681.6	1683.8	1686.0
47.5°	1422.9	1458.0	1495.2	1532.5	1561.0	1589.5	1611.4	1629.0	1637.8	1644.3	1644.3
50°	1368.1	1405.4	1447.0	1486.5	1517.2	1545.7	1567.6	1587.3	1598.3	1602.7	1604.9
52.5°	1317.7	1352.7	1396.6	1436.1	1466.7	1495.2	1523.8	1545.7	1556.6	1561.0	1561.0
55°	1256.3	1300.1	1348.4	1385.6	1418.5	1451.4	1479.9	1501.8	1512.8	1519.4	1523.8
57.5°	1199.3	1245.3	1295.7	1335.2	1374.7	1405.4	1431.7	1460.2	1468.9	1477.7	1479.9
60°	1144.5	1190.5	1238.7	1282.6	1322.0	1354.9	1385.6	1409.7	1425.1	1429.5	1433.9
62.5°	1087.5	1135.7	1186.1	1230.0	1271.6	1311.1	1339.6	1361.5	1379.1	1385.6	1390.0
65°	1032.6	1083.1	1133.5	1179.5	1223.4	1262.9	1291.4	1313.3	1330.8	1341.8	1344.0
67.5°	973.4	1028.3	1080.9	1129.1	1173.0	1214.6	1243.1	1265.0	1282.6	1295.7	1297.9
70°	918.6	975.6	1028.3	1080.9	1124.7	1166.4	1197.1	1219.0	1238.7	1247.5	1251.9
72.5°	866.0	925.2	980.0	1032.6	1076.5	1118.1	1151.0	1173.0	1192.7	1203.7	1205.8
75°	815.6	874.8	934.0	984.4	1030.5	1072.1	1105.0	1129.1	1146.7	1157.6	1162.0
77.5°	765.2	826.6	885.7	936.2	984.4	1026.1	1054.6	1083.1	1100.6	1113.8	1113.8
80°	714.7	778.3	839.7	890.1	938.4	975.6	1008.5	1037.0	1054.6	1067.7	1067.7
82.5°	670.9	732.3	791.5	841.9	890.1	931.8	964.7	991.0	1010.7	1019.5	1021.7
85°	620.5	688.4	743.2	798.1	844.1	883.6	916.4	944.9	962.5	971.3	975.6
87.5°	578.8	644.6	703.8	752.0	798.1	837.5	874.8	898.9	916.4	927.4	931.8
90°	539.3	602.9	662.1	710.4	758.6	795.9	830.9	855.1	874.8	883.6	887.9
92.5°	504.3	567.8	624.8	673.1	719.1	760.8	793.7	817.8	835.3	844.1	850.7
95°	471.4	532.8	587.6	640.2	684.0	721.3	756.4	780.5	800.2	806.8	813.4
97.5°	438.5	497.7	552.5	602.9	649.0	684.0	716.9	741.0	756.4	767.4	773.9
100°	410.0	467.0	519.6	567.8	611.7	644.6	679.7	701.6	716.9	725.7	734.5
102.5°	379.3	436.3	486.7	532.8	578.8	609.5	642.4	664.3	677.5	692.8	692.8
105°	353.0	405.6	456.0	499.9	539.3	576.6	605.1	627.0	642.4	653.3	653.3
107.5°	324.5	377.1	425.3	471.4	508.6	543.7	570.0	589.8	607.3	613.9	620.5
110°	302.6	348.6	396.8	440.7	475.8	508.6	535.0	556.9	572.2	578.8	583.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	276.2	324.5	368.3	410.0	445.1	475.8	502.1	519.6	535.0	543.7	545.9
115°	254.3	300.4	339.8	379.3	416.6	442.9	467.0	484.5	499.9	506.5	510.8
117.5°	234.6	276.2	315.7	348.6	383.7	412.2	436.3	451.6	464.8	473.6	478.0
120°	214.9	254.3	289.4	322.3	355.2	381.5	403.4	418.8	434.1	440.7	440.7
122.5°	195.1	232.4	265.3	296.0	326.7	350.8	374.9	388.1	401.2	407.8	407.8
125°	177.6	212.7	243.4	271.9	300.4	322.3	342.0	357.4	370.5	374.9	374.9
127.5°	160.0	192.9	221.4	247.7	271.9	293.8	313.5	328.9	339.8	344.2	344.2
130°	144.7	173.2	199.5	225.8	249.9	267.5	287.2	300.4	306.9	313.5	315.7
132.5°	129.4	155.7	179.8	201.7	225.8	243.4	258.7	271.9	278.4	285.0	287.2
135°	114.0	138.1	160.0	182.0	201.7	219.2	232.4	243.4	252.1	256.5	258.7
137.5°	96.5	122.8	142.5	160.0	182.0	195.1	210.5	217.1	225.8	230.2	230.2
140°	81.1	100.9	122.8	140.3	157.9	171.0	184.2	195.1	201.7	203.9	203.9
142.5°	65.8	83.3	100.9	122.8	138.1	149.1	162.2	171.0	175.4	177.6	179.8
145°	52.6	65.8	81.1	100.9	118.4	131.5	138.1	146.9	151.3	153.5	155.7
147.5°	39.5	52.6	65.8	78.9	96.5	109.6	116.2	125.0	129.4	131.5	131.5
150°	30.7	39.5	48.2	61.4	74.5	89.9	98.7	105.2	107.4	109.6	109.6
152.5°	21.9	30.7	37.3	46.0	54.8	68.0	81.1	85.5	87.7	89.9	89.9
155°	15.3	21.9	26.3	32.9	39.5	50.4	61.4	68.0	70.2	72.4	72.4
157.5°	11.0	15.3	17.5	24.1	28.5	32.9	41.7	52.6	54.8	54.8	54.8
160°	6.6	8.8	11.0	15.3	17.5	21.9	26.3	32.9	39.5	39.5	39.5
162.5°	4.4	6.6	6.6	8.8	8.8	13.2	15.3	17.5	24.1	26.3	26.3
165°	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6	11.0	13.2	13.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2074.1	2078.4	2076.2	2076.2	2076.2	2080.6	2076.2	2056.5	2060.9	2065.3	2069.7
5°	2071.9	2074.1	2074.1	2071.9	2071.9	2076.2	2071.9	2052.1	2056.5	2060.9	2063.1
7.5°	2063.1	2065.3	2065.3	2065.3	2063.1	2067.5	2060.9	2043.4	2043.4	2047.7	2049.9
10°	2052.1	2056.5	2054.3	2052.1	2052.1	2052.1	2047.7	2028.0	2028.0	2030.2	2032.4
12.5°	2039.0	2039.0	2039.0	2036.8	2034.6	2034.6	2030.2	2010.5	2008.3	2012.7	2010.5
15°	2021.4	2025.8	2021.4	2019.2	2014.9	2014.9	2008.3	1988.6	1984.2	1986.4	1984.2
17.5°	2006.1	2008.3	2003.9	1999.5	1995.1	1992.9	1986.4	1964.4	1957.9	1960.0	1955.7
20°	1990.7	1990.7	1986.4	1982.0	1975.4	1968.8	1960.0	1938.1	1927.2	1927.2	1918.4
22.5°	1971.0	1971.0	1966.6	1960.0	1953.5	1944.7	1935.9	1914.0	1896.5	1892.1	1885.5
25°	1949.1	1946.9	1944.7	1938.1	1925.0	1916.2	1907.4	1883.3	1863.6	1854.8	1843.8
27.5°	1922.8	1922.8	1916.2	1909.6	1896.5	1885.5	1874.5	1852.6	1826.3	1815.3	1800.0
30°	1894.3	1894.3	1887.7	1878.9	1865.8	1852.6	1839.5	1813.2	1786.8	1771.5	1754.0
32.5°	1865.8	1863.6	1857.0	1848.2	1835.1	1815.3	1804.4	1778.1	1747.4	1729.8	1705.7
35°	1830.7	1828.5	1821.9	1811.0	1793.4	1778.1	1760.5	1736.4	1701.3	1679.4	1653.1
37.5°	1795.6	1793.4	1789.0	1773.7	1756.2	1738.6	1716.7	1692.6	1659.7	1631.2	1604.9
40°	1760.5	1758.3	1749.6	1738.6	1716.7	1694.8	1672.8	1648.7	1613.6	1580.8	1552.3
42.5°	1723.3	1721.1	1710.1	1697.0	1672.8	1650.9	1624.6	1598.3	1563.2	1523.8	1495.2
45°	1686.0	1681.6	1670.6	1655.3	1629.0	1604.9	1578.6	1547.9	1512.8	1475.5	1438.2
47.5°	1646.5	1640.0	1629.0	1607.1	1585.1	1558.8	1528.1	1495.2	1460.2	1418.5	1379.1
50°	1602.7	1598.3	1585.1	1565.4	1539.1	1512.8	1477.7	1444.8	1403.2	1363.7	1315.5
52.5°	1561.0	1552.3	1541.3	1519.4	1493.1	1464.6	1427.3	1387.8	1346.2	1308.9	1258.5
55°	1517.2	1512.8	1497.4	1479.9	1447.0	1414.1	1379.1	1337.4	1291.4	1247.5	1199.3
57.5°	1475.5	1466.7	1453.6	1429.5	1401.0	1368.1	1330.8	1287.0	1236.5	1190.5	1137.9
60°	1433.9	1420.7	1405.4	1383.4	1352.7	1317.7	1278.2	1232.2	1181.7	1131.3	1076.5
62.5°	1387.8	1376.9	1359.3	1337.4	1306.7	1269.4	1227.8	1179.5	1131.3	1078.7	1019.5
65°	1341.8	1330.8	1313.3	1291.4	1260.7	1219.0	1175.2	1126.9	1072.1	1021.7	958.1
67.5°	1295.7	1284.8	1265.0	1240.9	1210.2	1170.8	1124.7	1074.3	1019.5	964.7	898.9
70°	1249.7	1236.5	1219.0	1192.7	1162.0	1120.3	1074.3	1021.7	966.9	907.7	841.9
72.5°	1203.7	1192.7	1170.8	1146.7	1113.8	1072.1	1026.1	973.4	916.4	855.1	789.3
75°	1157.6	1144.5	1129.1	1100.6	1065.5	1026.1	977.8	925.2	863.8	804.6	736.7
77.5°	1111.6	1100.6	1080.9	1052.4	1019.5	977.8	929.6	877.0	815.6	754.2	681.9
80°	1065.5	1052.4	1037.0	1010.7	973.4	931.8	881.4	828.7	767.4	703.8	631.4
82.5°	1019.5	1006.3	988.8	962.5	927.4	885.7	837.5	780.5	719.1	653.3	585.4
85°	973.4	962.5	942.8	916.4	879.2	837.5	789.3	738.9	673.1	607.3	539.3
87.5°	927.4	916.4	896.7	870.4	835.3	793.7	745.4	692.8	629.2	567.8	493.3
90°	883.6	874.8	855.1	828.7	793.7	752.0	708.2	651.2	589.8	528.4	458.2
92.5°	844.1	835.3	817.8	791.5	760.8	714.7	670.9	616.1	554.7	491.1	423.1
95°	809.0	798.1	780.5	756.4	719.1	679.7	635.8	581.0	521.8	458.2	392.4
97.5°	769.5	758.6	741.0	714.7	684.0	642.4	598.5	545.9	486.7	427.5	361.8
100°	730.1	719.1	699.4	677.5	646.8	605.1	563.5	510.8	456.0	399.0	335.4
102.5°	690.6	679.7	662.1	640.2	609.5	572.2	530.6	480.1	425.3	368.3	309.1
105°	653.3	642.4	624.8	602.9	574.4	537.1	493.3	449.5	396.8	342.0	285.0
107.5°	616.1	605.1	589.8	567.8	539.3	504.3	462.6	416.6	368.3	315.7	260.9
110°	578.8	570.0	552.5	532.8	504.3	469.2	431.9	388.1	339.8	291.6	239.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	543.7	535.0	517.4	495.5	471.4	438.5	401.2	359.6	313.5	267.5	217.1
115°	508.6	497.7	482.3	462.6	438.5	407.8	372.7	335.4	289.4	245.6	199.5
117.5°	473.6	464.8	449.5	429.7	407.8	377.1	344.2	309.1	265.3	223.6	182.0
120°	438.5	431.9	416.6	399.0	377.1	348.6	317.9	282.8	243.4	203.9	164.4
122.5°	405.6	399.0	383.7	368.3	346.4	320.1	291.6	258.7	223.6	186.4	151.3
125°	374.9	366.1	353.0	337.6	317.9	293.8	265.3	234.6	201.7	168.8	135.9
127.5°	342.0	335.4	326.7	309.1	289.4	267.5	241.2	214.9	184.2	153.5	122.8
130°	315.7	306.9	296.0	282.8	265.3	243.4	219.2	192.9	166.6	138.1	107.4
132.5°	285.0	276.2	267.5	254.3	239.0	219.2	197.3	173.2	149.1	122.8	96.5
135°	256.5	249.9	241.2	228.0	212.7	197.3	175.4	153.5	131.5	107.4	85.5
137.5°	230.2	223.6	214.9	206.1	190.7	175.4	155.7	135.9	116.2	94.3	74.5
140°	203.9	199.5	190.7	182.0	168.8	153.5	135.9	118.4	100.9	81.1	63.6
142.5°	177.6	173.2	166.6	157.9	146.9	133.7	118.4	103.0	85.5	70.2	54.8
145°	153.5	151.3	144.7	135.9	127.2	114.0	100.9	87.7	72.4	59.2	43.8
147.5°	129.4	127.2	122.8	116.2	107.4	96.5	85.5	72.4	61.4	48.2	35.1
150°	107.4	105.2	103.0	94.3	89.9	78.9	70.2	59.2	50.4	37.3	28.5
152.5°	87.7	87.7	83.3	76.7	72.4	63.6	57.0	48.2	39.5	30.7	21.9
155°	70.2	68.0	65.8	61.4	57.0	50.4	43.8	37.3	30.7	21.9	15.3
157.5°	54.8	52.6	50.4	46.0	41.7	39.5	32.9	26.3	19.7	15.3	11.0
160°	39.5	37.3	35.1	32.9	30.7	26.3	21.9	17.5	13.2	8.8	6.6
162.5°	26.3	24.1	24.1	21.9	19.7	15.3	13.2	11.0	8.8	6.6	4.4
165°	13.2	13.2	11.0	11.0	8.8	6.6	6.6	6.6	4.4	4.4	2.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4	2078.4
2.5°	2067.5	2067.5	2076.2	2074.1	2067.5	2080.6	2096.0
5°	2060.9	2060.9	2067.5	2067.5	2060.9	2074.1	2087.2
7.5°	2049.9	2047.7	2054.3	2054.3	2045.6	2056.5	2071.9
10°	2030.2	2028.0	2034.6	2034.6	2025.8	2036.8	2049.9
12.5°	2008.3	2003.9	2010.5	2008.3	1999.5	2010.5	2023.6
15°	1979.8	1977.6	1982.0	1977.6	1968.8	1979.8	1992.9
17.5°	1951.3	1944.7	1946.9	1946.9	1931.5	1942.5	1953.5
20°	1914.0	1905.2	1907.4	1905.2	1894.3	1900.9	1914.0
22.5°	1876.7	1863.6	1863.6	1861.4	1848.2	1857.0	1868.0
25°	1830.7	1815.3	1815.3	1813.2	1797.8	1804.4	1815.3
27.5°	1784.7	1769.3	1762.7	1760.5	1745.2	1745.2	1760.5
30°	1736.4	1714.5	1710.1	1703.5	1688.2	1688.2	1701.3
32.5°	1690.4	1659.7	1650.9	1642.1	1626.8	1624.6	1640.0
35°	1629.0	1604.9	1589.5	1580.8	1563.2	1558.8	1572.0
37.5°	1578.6	1547.9	1525.9	1515.0	1497.4	1490.9	1508.4
40°	1523.8	1490.9	1462.4	1455.8	1429.5	1420.7	1436.1
42.5°	1462.4	1427.3	1398.8	1385.6	1365.9	1357.1	1359.3
45°	1401.0	1363.7	1333.0	1315.5	1295.7	1280.4	1289.2
47.5°	1337.4	1304.5	1267.2	1240.9	1216.8	1205.8	1210.2
50°	1273.8	1234.3	1199.3	1170.8	1142.3	1129.1	1137.9
52.5°	1210.2	1168.6	1129.1	1098.4	1065.5	1052.4	1054.6
55°	1148.8	1105.0	1059.0	1026.1	995.4	975.6	971.3
57.5°	1087.5	1039.2	991.0	953.7	914.3	896.7	890.1
60°	1021.7	971.3	920.8	877.0	835.3	815.6	806.8
62.5°	960.3	905.5	848.5	802.4	760.8	734.5	727.9
65°	901.1	837.5	780.5	727.9	681.9	653.3	644.6
67.5°	837.5	771.7	710.4	653.3	609.5	572.2	567.8
70°	778.3	708.2	640.2	581.0	532.8	495.5	478.0
72.5°	719.1	646.8	576.6	513.0	451.6	416.6	403.4
75°	662.1	587.6	513.0	447.3	379.3	337.6	324.5
77.5°	609.5	532.8	453.8	381.5	317.9	265.3	247.7
80°	559.1	480.1	396.8	322.3	254.3	197.3	177.6
82.5°	506.5	431.9	346.4	267.5	197.3	138.1	114.0
85°	460.4	385.9	300.4	221.4	151.3	87.7	61.4
87.5°	423.1	342.0	265.3	186.4	114.0	50.4	17.5
90°	385.9	306.9	230.2	153.5	85.5	28.5	2.2
92.5°	353.0	278.4	201.7	131.5	65.8	19.7	2.2
95°	322.3	249.9	177.6	109.6	52.6	13.2	2.2
97.5°	293.8	225.8	157.9	94.3	43.8	11.0	2.2
100°	269.7	203.9	140.3	83.3	37.3	8.8	2.2
102.5°	245.6	184.2	125.0	72.4	32.9	6.6	2.2
105°	225.8	166.6	111.8	65.8	28.5	6.6	2.2
107.5°	206.1	151.3	100.9	57.0	24.1	4.4	2.2
110°	186.4	138.1	89.9	50.4	21.9	4.4	2.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	171.0	125.0	81.1	46.0	17.5	4.4	2.2
115°	155.7	111.8	72.4	39.5	15.3	2.2	2.2
117.5°	140.3	100.9	63.6	35.1	13.2	2.2	2.2
120°	127.2	89.9	57.0	30.7	11.0	2.2	2.2
122.5°	114.0	81.1	50.4	26.3	8.8	2.2	2.2
125°	103.0	72.4	43.8	21.9	6.6	2.2	2.2
127.5°	92.1	63.6	39.5	19.7	6.6	2.2	2.2
130°	81.1	57.0	32.9	15.3	4.4	2.2	2.2
132.5°	72.4	48.2	28.5	13.2	4.4	2.2	2.2
135°	63.6	41.7	24.1	8.8	4.4	2.2	2.2
137.5°	54.8	35.1	19.7	6.6	2.2	2.2	2.2
140°	46.0	30.7	15.3	6.6	2.2	2.2	2.2
142.5°	39.5	24.1	11.0	4.4	2.2	2.2	2.2
145°	30.7	19.7	8.8	4.4	2.2	2.2	2.2
147.5°	24.1	15.3	6.6	4.4	2.2	2.2	2.2
150°	17.5	11.0	6.6	2.2	2.2	2.2	2.2
152.5°	13.2	8.8	4.4	2.2	2.2	2.2	2.2
155°	8.8	6.6	4.4	2.2	2.2	2.2	2.2
157.5°	6.6	4.4	2.2	2.2	2.2	2.2	2.2
160°	4.4	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)