

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-LD5-88SL-LW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

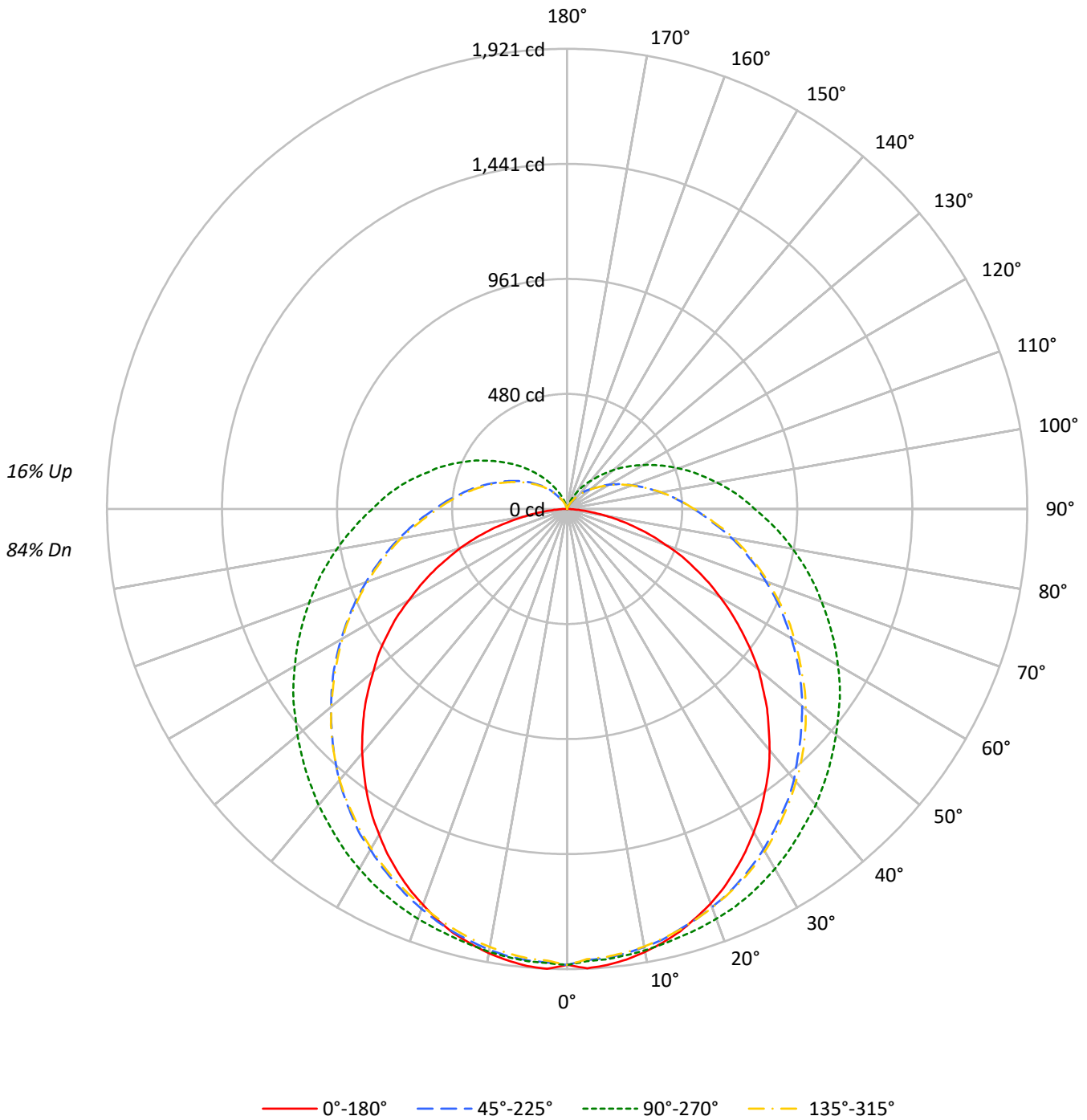
Lumens per Lamp: N/A  
Luminaire Lumens: 8269.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 75  
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#  
CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

### 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°	7690	7690	7690	7690
5°	7742	7411	7758	7443
10°	7681	7201	7705	7224
15°	7602	7020	7636	7028
20°	7494	6889	7519	6889
25°	7358	6772	7402	6764
30°	7204	6651	7259	6651
35°	7024	6540	7102	6548
40°	6846	6475	6930	6475
45°	6642	6406	6744	6414
50°	6430	6365	6517	6383
55°	6129	6371	6322	6399
60°	5813	6391	6003	6430
65°	5461	6455	5702	6519
70°	4958	6573	5344	6667
75°	4383	6788	4797	6919
80°	3475	7107	3948	7271
85°	2211	7617	2765	7829



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	2.2
10°-20°	518.2	6.3
20°-30°	794.5	9.6
30°-40°	980.1	11.9
40°-50°	1063.4	12.9
50°-60°	1048.1	12.7
60°-70°	947.6	11.5
70°-80°	789.4	9.5
80°-90°	611.4	7.4
90°-100°	463.7	5.6
100°-110°	343.2	4.2
110°-120°	238.7	2.9
120°-130°	152.3	1.8
130°-140°	85.5	1.0
140°-150°	39.0	0.5
150°-160°	12.1	0.1
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1493.0	18.1
0°-40°	2473.1	29.9
0°-60°	4584.5	55.4
0°-90°	6933.0	83.8
90°-120°	1045.6	12.6
90°-150°	1322.4	16.0
90°-180°	1336.0	16.2
0°-180°	8269.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1903	1903	1903	1903	1903	
5°	1911	1887	1915	1895	1911	181
15°	1825	1847	1833	1849	1825	514
25°	1662	1785	1672	1783	1662	766
35°	1440	1674	1456	1676	1440	901
45°	1180	1542	1199	1544	1180	909
55°	889	1389	918	1395	889	796
65°	590	1219	616	1231	590	585
75°	297	1044	325	1064	297	315
85°	56	869	70	893	56	68
90°	2	783	4	813	2	3
95°	2	711	2	745	2	2
105°	2	564	2	598	2	2
115°	2	430	2	468	2	2
125°	2	309	2	343	2	2
135°	2	201	2	237	2	2
145°	2	116	2	142	2	1
155°	2	48	2	66	2	1
165°	2	8	2	12	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°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1919.3	1919.3	1917.3	1913.3	1915.3	1921.4	1917.3	1907.3	1901.3	1885.2	1889.2
5°	1911.3	1911.3	1909.3	1905.3	1907.3	1915.3	1911.3	1903.3	1895.3	1881.2	1887.2
7.5°	1897.3	1897.3	1895.3	1891.2	1895.3	1903.3	1899.3	1891.2	1885.2	1871.2	1877.2
10°	1877.2	1879.2	1877.2	1871.2	1879.2	1887.2	1885.2	1875.2	1869.2	1857.1	1863.1
12.5°	1853.1	1855.1	1853.1	1851.1	1855.1	1867.1	1863.1	1855.1	1851.1	1841.0	1847.1
15°	1825.0	1827.0	1823.0	1823.0	1827.0	1839.0	1839.0	1831.0	1827.0	1817.0	1829.0
17.5°	1788.8	1790.9	1788.8	1788.8	1792.9	1804.9	1806.9	1802.9	1798.9	1794.9	1806.9
20°	1752.7	1750.7	1750.7	1748.7	1756.7	1774.8	1772.8	1772.8	1768.8	1768.8	1782.8
22.5°	1710.5	1710.5	1708.5	1708.5	1718.6	1734.6	1734.6	1738.7	1734.6	1742.7	1754.7
25°	1662.4	1664.4	1662.4	1666.4	1674.4	1692.5	1694.5	1700.5	1702.5	1710.5	1724.6
27.5°	1612.2	1614.2	1612.2	1616.2	1630.2	1644.3	1654.3	1662.4	1664.4	1676.4	1694.5
30°	1558.0	1558.0	1560.0	1564.0	1580.0	1602.1	1610.2	1620.2	1620.2	1640.3	1658.3
32.5°	1501.7	1501.7	1501.7	1509.8	1527.8	1553.9	1564.0	1576.0	1580.0	1600.1	1620.2
35°	1439.5	1441.5	1441.5	1447.5	1471.6	1497.7	1511.8	1525.8	1533.9	1558.0	1578.0
37.5°	1381.3	1385.3	1379.3	1387.3	1421.4	1443.5	1459.6	1473.6	1487.7	1519.8	1535.9
40°	1315.0	1319.0	1317.0	1333.1	1361.2	1389.3	1407.4	1421.4	1441.5	1473.6	1491.7
42.5°	1244.8	1248.8	1252.8	1270.9	1301.0	1329.1	1351.2	1369.2	1393.3	1421.4	1451.6
45°	1180.5	1180.5	1186.5	1208.6	1240.7	1270.9	1297.0	1317.0	1345.1	1375.3	1405.4
47.5°	1108.2	1110.2	1118.3	1144.4	1178.5	1214.6	1238.7	1264.8	1295.0	1327.1	1361.2
50°	1042.0	1042.0	1054.0	1082.1	1114.3	1154.4	1180.5	1210.6	1242.8	1280.9	1315.0
52.5°	965.7	969.7	987.8	1013.9	1056.0	1092.2	1122.3	1154.4	1192.6	1232.7	1270.9
55°	889.4	897.4	911.5	947.6	991.8	1025.9	1062.1	1102.2	1138.4	1182.5	1226.7
57.5°	815.1	821.1	843.2	879.4	925.5	967.7	1005.8	1044.0	1088.2	1132.3	1178.5
60°	738.8	746.9	773.0	809.1	859.3	903.5	947.6	987.8	1034.0	1080.1	1128.3
62.5°	666.5	672.6	702.7	744.8	795.0	843.2	887.4	935.6	985.8	1029.9	1078.1
65°	590.3	600.3	634.4	672.6	730.8	779.0	829.2	881.4	933.6	981.8	1027.9
67.5°	520.0	526.0	562.2	606.3	664.5	718.7	770.9	827.2	881.4	931.6	977.7
70°	437.7	457.8	493.9	540.1	602.3	658.5	714.7	773.0	831.2	883.4	927.5
72.5°	369.4	385.5	425.6	475.8	536.1	602.3	660.5	722.8	781.0	835.2	881.4
75°	297.1	313.2	359.4	415.6	477.8	548.1	608.3	672.6	732.8	787.0	835.2
77.5°	226.9	246.9	297.1	355.4	423.6	495.9	558.1	622.4	684.6	742.8	791.0
80°	162.6	184.7	238.9	305.2	371.4	443.7	512.0	576.2	638.4	696.7	746.9
82.5°	104.4	128.5	186.7	253.0	323.2	395.5	465.8	530.0	592.3	650.5	702.7
85°	56.2	82.3	142.5	208.8	279.1	351.3	421.6	489.9	550.1	604.3	660.5
87.5°	16.1	48.2	106.4	172.7	244.9	311.2	379.5	447.7	507.9	566.2	616.4
90°	2.0	28.1	80.3	142.5	212.8	277.1	345.3	409.6	469.8	528.0	578.2
92.5°	2.0	18.1	62.2	118.5	182.7	249.0	317.2	379.5	435.7	493.9	544.1
95°	2.0	14.1	50.2	100.4	160.6	222.9	287.1	347.3	405.6	459.8	510.0
97.5°	2.0	10.0	40.2	86.3	140.5	198.8	261.0	321.2	377.4	429.6	475.8
100°	2.0	8.0	32.1	74.3	122.5	178.7	234.9	293.1	347.3	397.5	445.7
102.5°	2.0	6.0	28.1	62.2	108.4	158.6	212.8	267.0	319.2	367.4	415.6
105°	2.0	6.0	24.1	54.2	96.4	142.5	192.7	244.9	293.1	339.3	383.5
107.5°	2.0	4.0	20.1	46.2	84.3	128.5	174.7	224.9	269.0	313.2	355.4
110°	2.0	4.0	16.1	42.2	74.3	114.4	158.6	204.8	246.9	289.1	329.3



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CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	4.0	14.1	36.1	64.2	102.4	142.5	184.7	224.9	267.0	303.2
115°	2.0	4.0	12.0	32.1	60.2	88.3	128.5	166.6	206.8	244.9	279.1
117.5°	2.0	4.0	10.0	26.1	52.2	80.3	112.4	150.6	186.7	222.9	255.0
120°	2.0	4.0	8.0	24.1	46.2	72.3	100.4	134.5	168.6	202.8	236.9
122.5°	2.0	2.0	8.0	20.1	40.2	64.2	92.4	118.5	150.6	182.7	212.8
125°	2.0	2.0	8.0	18.1	34.1	58.2	82.3	106.4	134.5	162.6	188.7
127.5°	2.0	2.0	6.0	14.1	30.1	50.2	72.3	98.4	118.5	144.6	170.7
130°	2.0	2.0	6.0	12.0	26.1	42.2	64.2	86.3	110.4	128.5	150.6
132.5°	2.0	2.0	6.0	10.0	20.1	34.1	54.2	74.3	96.4	116.4	134.5
135°	2.0	2.0	4.0	8.0	16.1	28.1	44.2	62.2	84.3	104.4	122.5
137.5°	2.0	2.0	4.0	8.0	12.0	24.1	34.1	50.2	70.3	88.3	106.4
140°	2.0	2.0	4.0	6.0	10.0	18.1	28.1	40.2	56.2	72.3	92.4
142.5°	2.0	2.0	2.0	6.0	8.0	14.1	22.1	32.1	44.2	58.2	74.3
145°	2.0	2.0	2.0	6.0	8.0	10.0	18.1	26.1	34.1	44.2	58.2
147.5°	2.0	2.0	2.0	4.0	6.0	8.0	14.1	20.1	26.1	34.1	42.2
150°	2.0	2.0	2.0	4.0	6.0	8.0	10.0	14.1	20.1	28.1	34.1
152.5°	2.0	2.0	2.0	4.0	4.0	6.0	8.0	10.0	14.1	20.1	24.1
155°	2.0	2.0	2.0	2.0	4.0	6.0	8.0	8.0	10.0	14.1	18.1
157.5°	2.0	2.0	2.0	2.0	4.0	4.0	6.0	6.0	8.0	8.0	12.0
160°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0	6.0	6.0	6.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	6.0	6.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0
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°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1889.2	1891.2	1897.3	1897.3	1893.2	1893.2	1891.2	1889.2	1891.2	1895.3	1895.3
5°	1885.2	1887.2	1893.2	1895.3	1891.2	1889.2	1889.2	1887.2	1889.2	1893.2	1893.2
7.5°	1877.2	1879.2	1885.2	1887.2	1883.2	1883.2	1881.2	1879.2	1883.2	1885.2	1885.2
10°	1865.1	1867.1	1875.2	1877.2	1875.2	1873.2	1873.2	1871.2	1873.2	1877.2	1877.2
12.5°	1849.1	1853.1	1863.1	1863.1	1863.1	1861.1	1861.1	1859.1	1861.1	1865.1	1863.1
15°	1831.0	1839.0	1847.1	1851.1	1851.1	1851.1	1849.1	1847.1	1851.1	1853.1	1851.1
17.5°	1810.9	1821.0	1833.0	1837.0	1837.0	1839.0	1837.0	1835.0	1839.0	1839.0	1837.0
20°	1790.9	1800.9	1812.9	1817.0	1821.0	1823.0	1823.0	1821.0	1823.0	1825.0	1823.0
22.5°	1764.8	1776.8	1790.9	1796.9	1800.9	1804.9	1804.9	1804.9	1806.9	1808.9	1804.9
25°	1736.6	1750.7	1766.8	1772.8	1780.8	1782.8	1784.8	1784.8	1786.8	1788.8	1782.8
27.5°	1706.5	1722.6	1738.7	1748.7	1754.7	1758.7	1758.7	1760.7	1762.7	1764.8	1758.7
30°	1670.4	1694.5	1708.5	1716.6	1724.6	1730.6	1732.6	1734.6	1736.6	1738.7	1732.6
32.5°	1638.3	1658.3	1676.4	1686.5	1696.5	1704.5	1706.5	1706.5	1710.5	1710.5	1704.5
35°	1600.1	1624.2	1642.3	1652.3	1664.4	1670.4	1674.4	1674.4	1678.4	1678.4	1672.4
37.5°	1562.0	1586.1	1606.1	1618.2	1632.2	1640.3	1642.3	1642.3	1646.3	1646.3	1638.3
40°	1521.8	1547.9	1570.0	1584.1	1596.1	1606.1	1608.2	1614.2	1614.2	1612.2	1604.1
42.5°	1481.7	1505.8	1529.9	1545.9	1562.0	1572.0	1576.0	1578.0	1578.0	1576.0	1570.0
45°	1437.5	1465.6	1487.7	1507.8	1523.8	1533.9	1539.9	1541.9	1541.9	1537.9	1531.9
47.5°	1395.3	1423.4	1445.5	1467.6	1483.7	1495.7	1501.7	1503.8	1501.7	1499.7	1493.7
50°	1351.2	1383.3	1405.4	1427.5	1443.5	1453.6	1463.6	1465.6	1463.6	1461.6	1449.5
52.5°	1305.0	1339.1	1363.2	1385.3	1403.4	1415.4	1423.4	1425.5	1425.5	1421.4	1413.4
55°	1258.8	1288.9	1319.0	1343.1	1363.2	1375.3	1385.3	1389.3	1385.3	1381.3	1371.2
57.5°	1216.7	1244.8	1274.9	1301.0	1321.1	1337.1	1345.1	1349.2	1345.1	1339.1	1329.1
60°	1166.5	1196.6	1230.7	1254.8	1276.9	1292.9	1297.0	1305.0	1301.0	1295.0	1284.9
62.5°	1118.3	1154.4	1184.5	1214.6	1232.7	1250.8	1258.8	1262.8	1258.8	1252.8	1242.8
65°	1068.1	1108.2	1138.4	1168.5	1188.5	1206.6	1216.7	1218.7	1214.6	1208.6	1198.6
67.5°	1021.9	1060.1	1092.2	1124.3	1142.4	1160.4	1170.5	1174.5	1170.5	1162.4	1152.4
70°	975.7	1013.9	1052.0	1076.1	1098.2	1118.3	1124.3	1130.3	1126.3	1118.3	1106.2
72.5°	929.6	969.7	1007.9	1031.9	1056.0	1074.1	1082.1	1088.2	1084.1	1076.1	1062.1
75°	881.4	923.5	961.7	987.8	1011.9	1029.9	1038.0	1044.0	1040.0	1031.9	1015.9
77.5°	837.2	879.4	915.5	943.6	967.7	983.8	997.8	999.8	995.8	987.8	971.7
80°	791.0	833.2	871.3	899.4	923.5	939.6	949.6	955.7	951.6	943.6	927.5
82.5°	750.9	789.0	827.2	855.3	879.4	899.4	907.5	913.5	911.5	899.4	887.4
85°	706.7	750.9	781.0	811.1	835.2	855.3	861.3	869.3	867.3	857.3	841.2
87.5°	662.5	706.7	742.8	773.0	795.0	811.1	821.1	825.2	823.1	813.1	795.0
90°	626.4	666.5	702.7	734.8	752.9	770.9	781.0	783.0	783.0	770.9	756.9
92.5°	592.3	630.4	666.5	696.7	718.7	734.8	742.8	746.9	744.8	734.8	718.7
95°	554.1	596.3	630.4	660.5	682.6	698.7	706.7	710.7	708.7	698.7	682.6
97.5°	522.0	560.1	594.3	622.4	644.5	660.5	668.6	672.6	672.6	662.5	646.5
100°	489.9	528.0	560.1	588.3	608.3	624.4	632.4	634.4	632.4	624.4	608.3
102.5°	457.8	493.9	526.0	552.1	574.2	588.3	596.3	598.3	598.3	588.3	572.2
105°	425.6	461.8	491.9	520.0	538.1	552.1	558.1	564.2	562.2	554.1	538.1
107.5°	395.5	431.7	459.8	485.9	503.9	518.0	524.0	530.0	528.0	520.0	503.9
110°	367.4	401.5	427.6	453.7	469.8	483.9	493.9	495.9	491.9	483.9	469.8





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	341.3	371.4	397.5	421.6	439.7	449.7	457.8	461.8	457.8	449.7	439.7
115°	313.2	343.3	369.4	391.5	407.6	419.6	425.6	429.6	425.6	417.6	407.6
117.5°	287.1	315.2	341.3	363.4	377.4	387.5	393.5	397.5	393.5	387.5	377.4
120°	265.0	289.1	313.2	333.3	349.3	357.4	363.4	367.4	365.4	357.4	347.3
122.5°	238.9	265.0	287.1	307.2	321.2	329.3	333.3	337.3	335.3	329.3	319.2
125°	216.8	238.9	261.0	279.1	293.1	301.2	305.2	309.2	307.2	301.2	289.1
127.5°	192.7	216.8	234.9	253.0	263.0	275.1	277.1	281.1	279.1	273.0	263.0
130°	174.7	192.7	210.8	226.9	238.9	246.9	251.0	253.0	249.0	244.9	234.9
132.5°	152.6	172.7	188.7	202.8	210.8	218.8	222.9	224.9	224.9	218.8	210.8
135°	136.5	150.6	164.6	178.7	186.7	194.7	198.8	200.8	198.8	194.7	186.7
137.5°	122.5	134.5	144.6	156.6	166.6	170.7	174.7	174.7	172.7	170.7	164.6
140°	106.4	120.5	130.5	138.5	146.6	148.6	152.6	152.6	150.6	148.6	144.6
142.5°	90.3	102.4	112.4	122.5	128.5	132.5	134.5	136.5	134.5	132.5	126.5
145°	72.3	86.3	96.4	102.4	110.4	112.4	114.4	116.4	114.4	112.4	106.4
147.5°	56.2	68.3	78.3	86.3	92.4	94.4	96.4	98.4	96.4	92.4	90.3
150°	40.2	50.2	62.2	70.3	74.3	78.3	78.3	78.3	80.3	76.3	72.3
152.5°	32.1	36.1	44.2	52.2	58.2	60.2	62.2	62.2	60.2	60.2	56.2
155°	22.1	26.1	32.1	38.1	44.2	46.2	48.2	48.2	46.2	46.2	44.2
157.5°	14.1	18.1	22.1	26.1	32.1	34.1	36.1	36.1	36.1	34.1	32.1
160°	8.0	10.0	12.0	16.1	20.1	22.1	24.1	24.1	24.1	24.1	22.1
162.5°	6.0	6.0	6.0	8.0	10.0	12.0	14.1	14.1	14.1	14.1	12.0
165°	4.0	4.0	4.0	4.0	4.0	6.0	8.0	8.0	8.0	8.0	8.0
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-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1893.2	1893.2	1895.3	1891.2	1879.2	1881.2	1881.2	1889.2	1893.2	1895.3	1905.3
5°	1889.2	1889.2	1893.2	1887.2	1877.2	1877.2	1877.2	1885.2	1887.2	1891.2	1899.3
7.5°	1883.2	1883.2	1885.2	1879.2	1867.1	1867.1	1865.1	1873.2	1877.2	1879.2	1887.2
10°	1873.2	1873.2	1875.2	1869.2	1855.1	1855.1	1853.1	1859.1	1861.1	1865.1	1871.2
12.5°	1859.1	1859.1	1859.1	1853.1	1839.0	1837.0	1835.0	1841.0	1841.0	1843.1	1849.1
15°	1847.1	1843.1	1843.1	1837.0	1823.0	1819.0	1814.9	1817.0	1821.0	1819.0	1823.0
17.5°	1833.0	1829.0	1825.0	1819.0	1800.9	1794.9	1790.9	1792.9	1790.9	1788.8	1792.9
20°	1817.0	1810.9	1808.9	1798.9	1780.8	1770.8	1762.7	1758.7	1760.7	1754.7	1756.7
22.5°	1798.9	1790.9	1786.8	1774.8	1756.7	1744.7	1734.6	1726.6	1724.6	1716.6	1718.6
25°	1776.8	1766.8	1760.7	1750.7	1730.6	1716.6	1704.5	1692.5	1686.5	1676.4	1674.4
27.5°	1750.7	1740.7	1732.6	1722.6	1702.5	1684.4	1670.4	1654.3	1646.3	1634.3	1628.2
30°	1724.6	1712.6	1700.5	1692.5	1670.4	1650.3	1628.2	1614.2	1602.1	1588.1	1578.0
32.5°	1692.5	1680.4	1668.4	1656.3	1636.3	1612.2	1594.1	1572.0	1558.0	1541.9	1529.9
35°	1660.4	1644.3	1632.2	1616.2	1598.1	1570.0	1547.9	1525.8	1507.8	1489.7	1475.6
37.5°	1624.2	1612.2	1594.1	1580.0	1558.0	1529.9	1505.8	1477.7	1461.6	1437.5	1419.4
40°	1590.1	1576.0	1558.0	1539.9	1517.8	1485.7	1459.6	1427.5	1409.4	1381.3	1363.2
42.5°	1556.0	1535.9	1517.8	1497.7	1473.6	1443.5	1411.4	1379.3	1355.2	1329.1	1303.0
45°	1517.8	1495.7	1473.6	1451.6	1427.5	1397.3	1363.2	1329.1	1299.0	1274.9	1242.8
47.5°	1477.7	1455.6	1429.5	1405.4	1379.3	1349.2	1313.0	1276.9	1244.8	1216.7	1182.5
50°	1437.5	1415.4	1387.3	1361.2	1331.1	1301.0	1262.8	1220.7	1186.5	1150.4	1120.3
52.5°	1395.3	1373.3	1347.2	1313.0	1280.9	1250.8	1210.6	1166.5	1128.3	1098.2	1060.1
55°	1353.2	1331.1	1301.0	1266.8	1234.7	1196.6	1158.4	1114.3	1072.1	1036.0	997.8
57.5°	1309.0	1288.9	1254.8	1226.7	1186.5	1146.4	1106.2	1064.1	1017.9	975.7	931.6
60°	1264.8	1242.8	1210.6	1176.5	1136.3	1096.2	1054.0	1007.9	959.7	913.5	873.3
62.5°	1224.7	1196.6	1166.5	1130.3	1088.2	1050.0	1001.8	951.6	903.5	855.3	807.1
65°	1178.5	1148.4	1120.3	1084.1	1040.0	995.8	947.6	897.4	845.2	793.0	744.8
67.5°	1132.3	1102.2	1072.1	1036.0	989.8	943.6	893.4	843.2	785.0	734.8	678.6
70°	1086.2	1062.1	1023.9	985.8	943.6	893.4	843.2	789.0	728.8	674.6	616.4
72.5°	1040.0	1015.9	977.7	937.6	897.4	845.2	791.0	736.8	680.6	618.4	556.1
75°	995.8	965.7	931.6	893.4	851.3	797.0	742.8	686.6	620.4	562.2	497.9
77.5°	953.6	925.5	891.4	849.2	803.1	750.9	694.7	636.4	570.2	507.9	437.7
80°	907.5	879.4	845.2	803.1	756.9	706.7	646.5	586.2	522.0	453.7	381.5
82.5°	863.3	837.2	799.1	760.9	710.7	660.5	600.3	540.1	471.8	405.6	335.3
85°	817.1	791.0	754.9	714.7	666.5	612.3	556.1	495.9	427.6	359.4	289.1
87.5°	777.0	746.9	710.7	670.6	622.4	570.2	516.0	451.7	385.5	319.2	246.9
90°	734.8	706.7	670.6	630.4	582.2	530.0	473.8	413.6	349.3	281.1	212.8
92.5°	698.7	668.6	634.4	594.3	546.1	495.9	439.7	379.5	317.2	251.0	184.7
95°	662.5	632.4	600.3	560.1	512.0	461.8	405.6	347.3	287.1	222.9	160.6
97.5°	622.4	596.3	564.2	526.0	477.8	429.6	375.4	319.2	261.0	198.8	140.5
100°	590.3	560.1	530.0	489.9	445.7	399.5	345.3	291.1	234.9	176.7	122.5
102.5°	554.1	526.0	495.9	457.8	413.6	367.4	317.2	265.0	212.8	158.6	106.4
105°	520.0	493.9	461.8	425.6	383.5	339.3	291.1	242.9	192.7	140.5	94.4
107.5°	485.9	459.8	429.6	395.5	355.4	311.2	267.0	218.8	172.7	126.5	84.3
110°	451.7	427.6	399.5	365.4	327.3	287.1	244.9	200.8	154.6	112.4	74.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	421.6	397.5	369.4	337.3	301.2	263.0	222.9	180.7	138.5	100.4	64.2
115°	391.5	369.4	341.3	313.2	277.1	240.9	202.8	162.6	124.5	90.3	56.2
117.5°	361.4	339.3	313.2	285.1	253.0	218.8	182.7	144.6	112.4	80.3	50.2
120°	331.3	311.2	287.1	261.0	232.9	198.8	162.6	130.5	100.4	70.3	44.2
122.5°	303.2	285.1	263.0	238.9	208.8	176.7	146.6	118.5	90.3	62.2	36.1
125°	277.1	259.0	238.9	214.8	186.7	158.6	132.5	106.4	78.3	54.2	30.1
127.5°	251.0	232.9	212.8	190.7	168.6	142.5	118.5	94.4	70.3	48.2	26.1
130°	224.9	208.8	190.7	172.7	150.6	126.5	106.4	82.3	60.2	38.1	22.1
132.5°	198.8	186.7	170.7	152.6	132.5	114.4	92.4	72.3	52.2	34.1	20.1
135°	176.7	164.6	150.6	134.5	118.5	100.4	80.3	62.2	44.2	28.1	16.1
137.5°	156.6	146.6	132.5	118.5	104.4	86.3	70.3	52.2	36.1	24.1	12.0
140°	138.5	128.5	116.4	102.4	90.3	74.3	58.2	42.2	32.1	20.1	10.0
142.5°	120.5	110.4	100.4	88.3	76.3	62.2	48.2	36.1	26.1	16.1	10.0
145°	102.4	94.4	84.3	74.3	62.2	50.2	40.2	30.1	20.1	12.0	8.0
147.5°	84.3	78.3	68.3	60.2	50.2	40.2	32.1	24.1	16.1	10.0	6.0
150°	68.3	62.2	54.2	46.2	40.2	32.1	26.1	18.1	12.0	10.0	6.0
152.5°	52.2	48.2	42.2	38.1	32.1	24.1	18.1	14.1	10.0	8.0	4.0
155°	42.2	38.1	34.1	28.1	24.1	18.1	14.1	10.0	8.0	6.0	4.0
157.5°	30.1	28.1	24.1	20.1	16.1	12.0	10.0	10.0	6.0	4.0	2.0
160°	20.1	18.1	16.1	12.0	10.0	10.0	8.0	6.0	4.0	4.0	2.0
162.5°	12.0	10.0	10.0	10.0	8.0	8.0	6.0	4.0	4.0	2.0	2.0
165°	8.0	8.0	8.0	6.0	6.0	6.0	4.0	2.0	2.0	2.0	2.0
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-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1905.3	1899.3	1907.3	1921.4	1923.4	1921.4	1917.3	1923.4	1931.4	1929.4	1915.3
5°	1901.3	1893.2	1901.3	1915.3	1915.3	1913.3	1911.3	1917.3	1925.4	1923.4	1911.3
7.5°	1889.2	1881.2	1889.2	1901.3	1903.3	1899.3	1899.3	1905.3	1913.3	1911.3	1901.3
10°	1873.2	1865.1	1869.2	1883.2	1887.2	1883.2	1883.2	1889.2	1899.3	1897.3	1885.2
12.5°	1849.1	1843.1	1847.1	1859.1	1863.1	1861.1	1859.1	1867.1	1877.2	1877.2	1865.1
15°	1823.0	1814.9	1819.0	1833.0	1835.0	1831.0	1833.0	1839.0	1851.1	1851.1	1841.0
17.5°	1792.9	1782.8	1788.8	1798.9	1800.9	1800.9	1800.9	1808.9	1823.0	1821.0	1812.9
20°	1758.7	1744.7	1748.7	1758.7	1762.7	1762.7	1762.7	1776.8	1786.8	1786.8	1778.8
22.5°	1718.6	1708.5	1708.5	1718.6	1724.6	1722.6	1722.6	1734.6	1748.7	1746.7	1746.7
25°	1672.4	1664.4	1660.4	1672.4	1674.4	1676.4	1680.4	1692.5	1708.5	1708.5	1710.5
27.5°	1624.2	1616.2	1614.2	1624.2	1626.2	1628.2	1632.2	1646.3	1662.4	1664.4	1668.4
30°	1578.0	1566.0	1562.0	1570.0	1574.0	1576.0	1576.0	1598.1	1612.2	1618.2	1626.2
32.5°	1523.8	1511.8	1501.7	1515.8	1517.8	1521.8	1523.8	1545.9	1562.0	1572.0	1584.1
35°	1469.6	1449.5	1445.5	1455.6	1459.6	1461.6	1465.6	1489.7	1511.8	1519.8	1535.9
37.5°	1409.4	1395.3	1383.3	1393.3	1397.3	1399.4	1411.4	1433.5	1455.6	1467.6	1483.7
40°	1353.2	1335.1	1325.1	1331.1	1335.1	1337.1	1351.2	1375.3	1401.4	1415.4	1435.5
42.5°	1290.9	1266.8	1258.8	1264.8	1266.8	1272.9	1284.9	1317.0	1343.1	1363.2	1379.3
45°	1228.7	1210.6	1192.6	1198.6	1200.6	1204.6	1222.7	1256.8	1284.9	1309.0	1327.1
47.5°	1164.5	1142.4	1124.3	1128.3	1136.3	1138.4	1158.4	1198.6	1224.7	1250.8	1274.9
50°	1100.2	1070.1	1056.0	1056.0	1060.1	1070.1	1096.2	1136.3	1164.5	1194.6	1220.7
52.5°	1034.0	1005.8	989.8	991.8	995.8	1007.9	1031.9	1072.1	1104.2	1136.3	1168.5
55°	967.7	937.6	921.5	917.5	921.5	937.6	965.7	1007.9	1040.0	1078.1	1112.3
57.5°	901.4	865.3	851.3	845.2	849.2	869.3	897.4	941.6	981.8	1017.9	1058.0
60°	829.2	801.1	777.0	762.9	773.0	799.1	829.2	875.3	917.5	957.7	1001.8
62.5°	766.9	730.8	704.7	690.6	700.7	722.8	764.9	809.1	855.3	901.4	945.6
65°	696.7	660.5	630.4	616.4	626.4	652.5	694.7	742.8	793.0	839.2	891.4
67.5°	628.4	590.3	554.1	540.1	552.1	580.2	626.4	680.6	734.8	783.0	839.2
70°	562.2	520.0	481.8	471.8	479.8	518.0	562.2	616.4	672.6	728.8	787.0
72.5°	501.9	449.7	409.6	397.5	407.6	449.7	499.9	556.1	616.4	676.6	738.8
75°	431.7	383.5	339.3	325.2	337.3	375.4	437.7	497.9	562.2	626.4	684.6
77.5°	375.4	319.2	273.0	251.0	271.0	319.2	379.5	443.7	510.0	576.2	642.5
80°	317.2	259.0	208.8	184.7	206.8	259.0	319.2	389.5	463.8	530.0	590.3
82.5°	265.0	202.8	150.6	124.5	148.6	206.8	273.0	343.3	415.6	481.8	552.1
85°	216.8	152.6	98.4	70.3	104.4	156.6	226.9	299.1	373.4	441.7	510.0
87.5°	176.7	114.4	60.2	30.1	64.2	122.5	188.7	261.0	335.3	403.5	467.8
90°	144.6	82.3	32.1	4.0	38.1	92.4	156.6	226.9	297.1	367.4	431.7
92.5°	118.5	62.2	18.1	2.0	24.1	74.3	134.5	200.8	269.0	337.3	399.5
95°	98.4	48.2	12.0	2.0	18.1	58.2	114.4	178.7	242.9	309.2	371.4
97.5°	84.3	40.2	10.0	2.0	14.1	50.2	98.4	158.6	220.8	283.1	343.3
100°	72.3	32.1	8.0	2.0	12.0	42.2	86.3	140.5	198.8	259.0	317.2
102.5°	62.2	26.1	6.0	2.0	10.0	36.1	76.3	126.5	178.7	236.9	293.1
105°	54.2	22.1	6.0	2.0	8.0	32.1	68.3	112.4	164.6	216.8	271.0
107.5°	46.2	18.1	4.0	2.0	6.0	26.1	60.2	102.4	148.6	198.8	249.0
110°	40.2	16.1	4.0	2.0	6.0	24.1	52.2	92.4	134.5	180.7	228.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	34.1	12.0	4.0	2.0	4.0	20.1	46.2	82.3	122.5	164.6	210.8
115°	30.1	10.0	2.0	2.0	4.0	18.1	42.2	74.3	110.4	150.6	192.7
117.5°	24.1	8.0	2.0	2.0	2.0	14.1	36.1	66.3	100.4	138.5	176.7
120°	20.1	8.0	2.0	2.0	2.0	12.0	32.1	58.2	90.3	124.5	160.6
122.5°	18.1	6.0	2.0	2.0	2.0	10.0	28.1	52.2	80.3	112.4	146.6
125°	16.1	6.0	2.0	2.0	2.0	8.0	24.1	46.2	72.3	100.4	132.5
127.5°	12.0	6.0	2.0	2.0	2.0	6.0	22.1	40.2	64.2	90.3	118.5
130°	10.0	4.0	2.0	2.0	2.0	6.0	18.1	36.1	56.2	80.3	106.4
132.5°	8.0	4.0	2.0	2.0	2.0	4.0	14.1	28.1	48.2	70.3	94.4
135°	8.0	4.0	2.0	2.0	2.0	4.0	10.0	24.1	40.2	60.2	80.3
137.5°	8.0	2.0	2.0	2.0	2.0	4.0	8.0	18.1	32.1	48.2	66.3
140°	6.0	2.0	2.0	2.0	2.0	2.0	6.0	14.1	26.1	40.2	56.2
142.5°	6.0	2.0	2.0	2.0	2.0	2.0	6.0	10.0	20.1	32.1	44.2
145°	4.0	2.0	2.0	2.0	2.0	2.0	4.0	8.0	16.1	24.1	36.1
147.5°	4.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	12.0	20.1	28.1
150°	4.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.0	14.1	22.1
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0	10.0	14.1
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.0	10.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0	8.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1909.3	1895.3	1899.3	1897.3	1901.3	1907.3	1907.3	1905.3	1905.3	1901.3	1897.3
5°	1905.3	1891.2	1897.3	1895.3	1899.3	1905.3	1905.3	1903.3	1903.3	1897.3	1895.3
7.5°	1893.2	1883.2	1887.2	1887.2	1891.2	1897.3	1897.3	1895.3	1895.3	1889.2	1887.2
10°	1881.2	1869.2	1875.2	1875.2	1879.2	1887.2	1887.2	1885.2	1885.2	1879.2	1877.2
12.5°	1861.1	1849.1	1859.1	1861.1	1865.1	1873.2	1871.2	1871.2	1871.2	1865.1	1863.1
15°	1837.0	1829.0	1839.0	1841.0	1847.1	1857.1	1857.1	1857.1	1857.1	1851.1	1849.1
17.5°	1810.9	1804.9	1814.9	1819.0	1827.0	1837.0	1837.0	1839.0	1841.0	1837.0	1835.0
20°	1780.8	1776.8	1786.8	1794.9	1806.9	1817.0	1821.0	1823.0	1827.0	1823.0	1821.0
22.5°	1746.7	1746.7	1760.7	1768.8	1782.8	1792.9	1798.9	1804.9	1808.9	1804.9	1802.9
25°	1708.5	1714.6	1728.6	1742.7	1758.7	1768.8	1774.8	1782.8	1786.8	1784.8	1782.8
27.5°	1672.4	1680.4	1698.5	1712.6	1726.6	1742.7	1748.7	1758.7	1762.7	1762.7	1760.7
30°	1630.2	1642.3	1662.4	1678.4	1696.5	1712.6	1720.6	1730.6	1736.6	1732.6	1734.6
32.5°	1590.1	1610.2	1626.2	1644.3	1664.4	1680.4	1690.5	1702.5	1708.5	1706.5	1708.5
35°	1545.9	1566.0	1588.1	1606.1	1630.2	1646.3	1660.4	1670.4	1678.4	1676.4	1676.4
37.5°	1497.7	1523.8	1545.9	1570.0	1592.1	1610.2	1624.2	1636.3	1644.3	1644.3	1644.3
40°	1451.6	1479.7	1501.7	1529.9	1558.0	1574.0	1590.1	1602.1	1610.2	1612.2	1614.2
42.5°	1401.4	1431.5	1457.6	1487.7	1515.8	1535.9	1553.9	1568.0	1576.0	1580.0	1578.0
45°	1355.2	1383.3	1413.4	1447.5	1473.6	1493.7	1515.8	1531.9	1539.9	1541.9	1543.9
47.5°	1303.0	1335.1	1369.2	1403.4	1429.5	1455.6	1475.6	1491.7	1499.7	1505.8	1505.8
50°	1252.8	1286.9	1325.1	1361.2	1389.3	1415.4	1435.5	1453.6	1463.6	1467.6	1469.6
52.5°	1206.6	1238.7	1278.9	1315.0	1343.1	1369.2	1395.3	1415.4	1425.5	1429.5	1429.5
55°	1150.4	1190.6	1234.7	1268.9	1299.0	1329.1	1355.2	1375.3	1385.3	1391.3	1395.3
57.5°	1098.2	1140.4	1186.5	1222.7	1258.8	1286.9	1311.0	1337.1	1345.1	1353.2	1355.2
60°	1048.0	1090.2	1134.3	1174.5	1210.6	1240.7	1268.9	1290.9	1305.0	1309.0	1313.0
62.5°	995.8	1040.0	1086.2	1126.3	1164.5	1200.6	1226.7	1246.8	1262.8	1268.9	1272.9
65°	945.6	991.8	1038.0	1080.1	1120.3	1156.4	1182.5	1202.6	1218.7	1228.7	1230.7
67.5°	891.4	941.6	989.8	1034.0	1074.1	1112.3	1138.4	1158.4	1174.5	1186.5	1188.5
70°	841.2	893.4	941.6	989.8	1029.9	1068.1	1096.2	1116.3	1134.3	1142.4	1146.4
72.5°	793.0	847.2	897.4	945.6	985.8	1023.9	1054.0	1074.1	1092.2	1102.2	1104.2
75°	746.9	801.1	855.3	901.4	943.6	981.8	1011.9	1034.0	1050.0	1060.1	1064.1
77.5°	700.7	756.9	811.1	857.3	901.4	939.6	965.7	991.8	1007.9	1019.9	1019.9
80°	654.5	712.7	768.9	815.1	859.3	893.4	923.5	949.6	965.7	977.7	977.7
82.5°	614.4	670.6	724.8	770.9	815.1	853.3	883.4	907.5	925.5	933.6	935.6
85°	568.2	630.4	680.6	730.8	773.0	809.1	839.2	865.3	881.4	889.4	893.4
87.5°	530.0	590.3	644.5	688.6	730.8	766.9	801.1	823.1	839.2	849.2	853.3
90°	493.9	552.1	606.3	650.5	694.7	728.8	760.9	783.0	801.1	809.1	813.1
92.5°	461.8	520.0	572.2	616.4	658.5	696.7	726.8	748.9	764.9	773.0	779.0
95°	431.7	487.9	538.1	586.2	626.4	660.5	692.6	714.7	732.8	738.8	744.8
97.5°	401.5	455.7	505.9	552.1	594.3	626.4	656.5	678.6	692.6	702.7	708.7
100°	375.4	427.6	475.8	520.0	560.1	590.3	622.4	642.5	656.5	664.5	672.6
102.5°	347.3	399.5	445.7	487.9	530.0	558.1	588.3	608.3	620.4	634.4	634.4
105°	323.2	371.4	417.6	457.8	493.9	528.0	554.1	574.2	588.3	598.3	598.3
107.5°	297.1	345.3	389.5	431.7	465.8	497.9	522.0	540.1	556.1	562.2	568.2
110°	277.1	319.2	363.4	403.5	435.7	465.8	489.9	510.0	524.0	530.0	534.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	253.0	297.1	337.3	375.4	407.6	435.7	459.8	475.8	489.9	497.9	499.9
115°	232.9	275.1	311.2	347.3	381.5	405.6	427.6	443.7	457.8	463.8	467.8
117.5°	214.8	253.0	289.1	319.2	351.3	377.4	399.5	413.6	425.6	433.7	437.7
120°	196.8	232.9	265.0	295.1	325.2	349.3	369.4	383.5	397.5	403.5	403.5
122.5°	178.7	212.8	242.9	271.0	299.1	321.2	343.3	355.4	367.4	373.4	373.4
125°	162.6	194.7	222.9	249.0	275.1	295.1	313.2	327.3	339.3	343.3	343.3
127.5°	146.6	176.7	202.8	226.9	249.0	269.0	287.1	301.2	311.2	315.2	315.2
130°	132.5	158.6	182.7	206.8	228.9	244.9	263.0	275.1	281.1	287.1	289.1
132.5°	118.5	142.5	164.6	184.7	206.8	222.9	236.9	249.0	255.0	261.0	263.0
135°	104.4	126.5	146.6	166.6	184.7	200.8	212.8	222.9	230.9	234.9	236.9
137.5°	88.3	112.4	130.5	146.6	166.6	178.7	192.7	198.8	206.8	210.8	210.8
140°	74.3	92.4	112.4	128.5	144.6	156.6	168.6	178.7	184.7	186.7	186.7
142.5°	60.2	76.3	92.4	112.4	126.5	136.5	148.6	156.6	160.6	162.6	164.6
145°	48.2	60.2	74.3	92.4	108.4	120.5	126.5	134.5	138.5	140.5	142.5
147.5°	36.1	48.2	60.2	72.3	88.3	100.4	106.4	114.4	118.5	120.5	120.5
150°	28.1	36.1	44.2	56.2	68.3	82.3	90.3	96.4	98.4	100.4	100.4
152.5°	20.1	28.1	34.1	42.2	50.2	62.2	74.3	78.3	80.3	82.3	82.3
155°	14.1	20.1	24.1	30.1	36.1	46.2	56.2	62.2	64.2	66.3	66.3
157.5°	10.0	14.1	16.1	22.1	26.1	30.1	38.1	48.2	50.2	50.2	50.2
160°	6.0	8.0	10.0	14.1	16.1	20.1	24.1	30.1	36.1	36.1	36.1
162.5°	4.0	6.0	6.0	8.0	8.0	12.0	14.1	16.1	22.1	24.1	24.1
165°	2.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	12.0	12.0
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-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1899.3	1903.3	1901.3	1901.3	1901.3	1905.3	1901.3	1883.2	1887.2	1891.2	1895.3
5°	1897.3	1899.3	1899.3	1897.3	1897.3	1901.3	1897.3	1879.2	1883.2	1887.2	1889.2
7.5°	1889.2	1891.2	1891.2	1891.2	1889.2	1893.2	1887.2	1871.2	1871.2	1875.2	1877.2
10°	1879.2	1883.2	1881.2	1879.2	1879.2	1879.2	1875.2	1857.1	1857.1	1859.1	1861.1
12.5°	1867.1	1867.1	1867.1	1865.1	1863.1	1863.1	1859.1	1841.0	1839.0	1843.1	1841.0
15°	1851.1	1855.1	1851.1	1849.1	1845.1	1845.1	1839.0	1821.0	1817.0	1819.0	1817.0
17.5°	1837.0	1839.0	1835.0	1831.0	1827.0	1825.0	1819.0	1798.9	1792.9	1794.9	1790.9
20°	1823.0	1823.0	1819.0	1814.9	1808.9	1802.9	1794.9	1774.8	1764.8	1764.8	1756.7
22.5°	1804.9	1804.9	1800.9	1794.9	1788.8	1780.8	1772.8	1752.7	1736.6	1732.6	1726.6
25°	1784.8	1782.8	1780.8	1774.8	1762.7	1754.7	1746.7	1724.6	1706.5	1698.5	1688.5
27.5°	1760.7	1760.7	1754.7	1748.7	1736.6	1726.6	1716.6	1696.5	1672.4	1662.4	1648.3
30°	1734.6	1734.6	1728.6	1720.6	1708.5	1696.5	1684.4	1660.4	1636.3	1622.2	1606.1
32.5°	1708.5	1706.5	1700.5	1692.5	1680.4	1662.4	1652.3	1628.2	1600.1	1584.1	1562.0
35°	1676.4	1674.4	1668.4	1658.3	1642.3	1628.2	1612.2	1590.1	1558.0	1537.9	1513.8
37.5°	1644.3	1642.3	1638.3	1624.2	1608.2	1592.1	1572.0	1549.9	1519.8	1493.7	1469.6
40°	1612.2	1610.2	1602.1	1592.1	1572.0	1551.9	1531.9	1509.8	1477.7	1447.5	1421.4
42.5°	1578.0	1576.0	1566.0	1553.9	1531.9	1511.8	1487.7	1463.6	1431.5	1395.3	1369.2
45°	1543.9	1539.9	1529.9	1515.8	1491.7	1469.6	1445.5	1417.4	1385.3	1351.2	1317.0
47.5°	1507.8	1501.7	1491.7	1471.6	1451.6	1427.5	1399.4	1369.2	1337.1	1299.0	1262.8
50°	1467.6	1463.6	1451.6	1433.5	1409.4	1385.3	1353.2	1323.1	1284.9	1248.8	1204.6
52.5°	1429.5	1421.4	1411.4	1391.3	1367.2	1341.1	1307.0	1270.9	1232.7	1198.6	1152.4
55°	1389.3	1385.3	1371.2	1355.2	1325.1	1295.0	1262.8	1224.7	1182.5	1142.4	1098.2
57.5°	1351.2	1343.1	1331.1	1309.0	1282.9	1252.8	1218.7	1178.5	1132.3	1090.2	1042.0
60°	1313.0	1301.0	1286.9	1266.8	1238.7	1206.6	1170.5	1128.3	1082.1	1036.0	985.8
62.5°	1270.9	1260.8	1244.8	1224.7	1196.6	1162.4	1124.3	1080.1	1036.0	987.8	933.6
65°	1228.7	1218.7	1202.6	1182.5	1154.4	1116.3	1076.1	1031.9	981.8	935.6	877.4
67.5°	1186.5	1176.5	1158.4	1136.3	1108.2	1072.1	1029.9	983.8	933.6	883.4	823.1
70°	1144.4	1132.3	1116.3	1092.2	1064.1	1025.9	983.8	935.6	885.4	831.2	770.9
72.5°	1102.2	1092.2	1072.1	1050.0	1019.9	981.8	939.6	891.4	839.2	783.0	722.8
75°	1060.1	1048.0	1034.0	1007.9	975.7	939.6	895.4	847.2	791.0	736.8	674.6
77.5°	1017.9	1007.9	989.8	963.7	933.6	895.4	851.3	803.1	746.9	690.6	624.4
80°	975.7	963.7	949.6	925.5	891.4	853.3	807.1	758.9	702.7	644.5	578.2
82.5°	933.6	921.5	905.5	881.4	849.2	811.1	766.9	714.7	658.5	598.3	536.1
85°	891.4	881.4	863.3	839.2	805.1	766.9	722.8	676.6	616.4	556.1	493.9
87.5°	849.2	839.2	821.1	797.0	764.9	726.8	682.6	634.4	576.2	520.0	451.7
90°	809.1	801.1	783.0	758.9	726.8	688.6	648.5	596.3	540.1	483.9	419.6
92.5°	773.0	764.9	748.9	724.8	696.7	654.5	614.4	564.2	507.9	449.7	387.5
95°	740.8	730.8	714.7	692.6	658.5	622.4	582.2	532.0	477.8	419.6	359.4
97.5°	704.7	694.7	678.6	654.5	626.4	588.3	548.1	499.9	445.7	391.5	331.3
100°	668.6	658.5	640.5	620.4	592.3	554.1	516.0	467.8	417.6	365.4	307.2
102.5°	632.4	622.4	606.3	586.2	558.1	524.0	485.9	439.7	389.5	337.3	283.1
105°	598.3	588.3	572.2	552.1	526.0	491.9	451.7	411.6	363.4	313.2	261.0
107.5°	564.2	554.1	540.1	520.0	493.9	461.8	423.6	381.5	337.3	289.1	238.9
110°	530.0	522.0	505.9	487.9	461.8	429.6	395.5	355.4	311.2	267.0	218.8





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.9	489.9	473.8	453.7	431.7	401.5	367.4	329.3	287.1	244.9	198.8
115°	465.8	455.7	441.7	423.6	401.5	373.4	341.3	307.2	265.0	224.9	182.7
117.5°	433.7	425.6	411.6	393.5	373.4	345.3	315.2	283.1	242.9	204.8	166.6
120°	401.5	395.5	381.5	365.4	345.3	319.2	291.1	259.0	222.9	186.7	150.6
122.5°	371.4	365.4	351.3	337.3	317.2	293.1	267.0	236.9	204.8	170.7	138.5
125°	343.3	335.3	323.2	309.2	291.1	269.0	242.9	214.8	184.7	154.6	124.5
127.5°	313.2	307.2	299.1	283.1	265.0	244.9	220.8	196.8	168.6	140.5	112.4
130°	289.1	281.1	271.0	259.0	242.9	222.9	200.8	176.7	152.6	126.5	98.4
132.5°	261.0	253.0	244.9	232.9	218.8	200.8	180.7	158.6	136.5	112.4	88.3
135°	234.9	228.9	220.8	208.8	194.7	180.7	160.6	140.5	120.5	98.4	78.3
137.5°	210.8	204.8	196.8	188.7	174.7	160.6	142.5	124.5	106.4	86.3	68.3
140°	186.7	182.7	174.7	166.6	154.6	140.5	124.5	108.4	92.4	74.3	58.2
142.5°	162.6	158.6	152.6	144.6	134.5	122.5	108.4	94.4	78.3	64.2	50.2
145°	140.5	138.5	132.5	124.5	116.4	104.4	92.4	80.3	66.3	54.2	40.2
147.5°	118.5	116.4	112.4	106.4	98.4	88.3	78.3	66.3	56.2	44.2	32.1
150°	98.4	96.4	94.4	86.3	82.3	72.3	64.2	54.2	46.2	34.1	26.1
152.5°	80.3	80.3	76.3	70.3	66.3	58.2	52.2	44.2	36.1	28.1	20.1
155°	64.2	62.2	60.2	56.2	52.2	46.2	40.2	34.1	28.1	20.1	14.1
157.5°	50.2	48.2	46.2	42.2	38.1	36.1	30.1	24.1	18.1	14.1	10.0
160°	36.1	34.1	32.1	30.1	28.1	24.1	20.1	16.1	12.0	8.0	6.0
162.5°	24.1	22.1	22.1	20.1	18.1	14.1	12.0	10.0	8.0	6.0	4.0
165°	12.0	12.0	10.0	10.0	8.0	6.0	6.0	6.0	4.0	4.0	2.0
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-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1893.2	1893.2	1901.3	1899.3	1893.2	1905.3	1919.3
5°	1887.2	1887.2	1893.2	1893.2	1887.2	1899.3	1911.3
7.5°	1877.2	1875.2	1881.2	1881.2	1873.2	1883.2	1897.3
10°	1859.1	1857.1	1863.1	1863.1	1855.1	1865.1	1877.2
12.5°	1839.0	1835.0	1841.0	1839.0	1831.0	1841.0	1853.1
15°	1812.9	1810.9	1814.9	1810.9	1802.9	1812.9	1825.0
17.5°	1786.8	1780.8	1782.8	1782.8	1768.8	1778.8	1788.8
20°	1752.7	1744.7	1746.7	1744.7	1734.6	1740.7	1752.7
22.5°	1718.6	1706.5	1706.5	1704.5	1692.5	1700.5	1710.5
25°	1676.4	1662.4	1662.4	1660.4	1646.3	1652.3	1662.4
27.5°	1634.3	1620.2	1614.2	1612.2	1598.1	1598.1	1612.2
30°	1590.1	1570.0	1566.0	1560.0	1545.9	1545.9	1558.0
32.5°	1547.9	1519.8	1511.8	1503.8	1489.7	1487.7	1501.7
35°	1491.7	1469.6	1455.6	1447.5	1431.5	1427.5	1439.5
37.5°	1445.5	1417.4	1397.3	1387.3	1371.2	1365.2	1381.3
40°	1395.3	1365.2	1339.1	1333.1	1309.0	1301.0	1315.0
42.5°	1339.1	1307.0	1280.9	1268.9	1250.8	1242.8	1244.8
45°	1282.9	1248.8	1220.7	1204.6	1186.5	1172.5	1180.5
47.5°	1224.7	1194.6	1160.4	1136.3	1114.3	1104.2	1108.2
50°	1166.5	1130.3	1098.2	1072.1	1046.0	1034.0	1042.0
52.5°	1108.2	1070.1	1034.0	1005.8	975.7	963.7	965.7
55°	1052.0	1011.9	969.7	939.6	911.5	893.4	889.4
57.5°	995.8	951.6	907.5	873.3	837.2	821.1	815.1
60°	935.6	889.4	843.2	803.1	764.9	746.9	738.8
62.5°	879.4	829.2	777.0	734.8	696.7	672.6	666.5
65°	825.2	766.9	714.7	666.5	624.4	598.3	590.3
67.5°	766.9	706.7	650.5	598.3	558.1	524.0	520.0
70°	712.7	648.5	586.2	532.0	487.9	453.7	437.7
72.5°	658.5	592.3	528.0	469.8	413.6	381.5	369.4
75°	606.3	538.1	469.8	409.6	347.3	309.2	297.1
77.5°	558.1	487.9	415.6	349.3	291.1	242.9	226.9
80°	512.0	439.7	363.4	295.1	232.9	180.7	162.6
82.5°	463.8	395.5	317.2	244.9	180.7	126.5	104.4
85°	421.6	353.4	275.1	202.8	138.5	80.3	56.2
87.5°	387.5	313.2	242.9	170.7	104.4	46.2	16.1
90°	353.4	281.1	210.8	140.5	78.3	26.1	2.0
92.5°	323.2	255.0	184.7	120.5	60.2	18.1	2.0
95°	295.1	228.9	162.6	100.4	48.2	12.0	2.0
97.5°	269.0	206.8	144.6	86.3	40.2	10.0	2.0
100°	246.9	186.7	128.5	76.3	34.1	8.0	2.0
102.5°	224.9	168.6	114.4	66.3	30.1	6.0	2.0
105°	206.8	152.6	102.4	60.2	26.1	6.0	2.0
107.5°	188.7	138.5	92.4	52.2	22.1	4.0	2.0
110°	170.7	126.5	82.3	46.2	20.1	4.0	2.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	156.6	114.4	74.3	42.2	16.1	4.0	2.0
115°	142.5	102.4	66.3	36.1	14.1	2.0	2.0
117.5°	128.5	92.4	58.2	32.1	12.0	2.0	2.0
120°	116.4	82.3	52.2	28.1	10.0	2.0	2.0
122.5°	104.4	74.3	46.2	24.1	8.0	2.0	2.0
125°	94.4	66.3	40.2	20.1	6.0	2.0	2.0
127.5°	84.3	58.2	36.1	18.1	6.0	2.0	2.0
130°	74.3	52.2	30.1	14.1	4.0	2.0	2.0
132.5°	66.3	44.2	26.1	12.0	4.0	2.0	2.0
135°	58.2	38.1	22.1	8.0	4.0	2.0	2.0
137.5°	50.2	32.1	18.1	6.0	2.0	2.0	2.0
140°	42.2	28.1	14.1	6.0	2.0	2.0	2.0
142.5°	36.1	22.1	10.0	4.0	2.0	2.0	2.0
145°	28.1	18.1	8.0	4.0	2.0	2.0	2.0
147.5°	22.1	14.1	6.0	4.0	2.0	2.0	2.0
150°	16.1	10.0	6.0	2.0	2.0	2.0	2.0
152.5°	12.0	8.0	4.0	2.0	2.0	2.0	2.0
155°	8.0	6.0	4.0	2.0	2.0	2.0	2.0
157.5°	6.0	4.0	2.0	2.0	2.0	2.0	2.0
160°	4.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)