

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-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

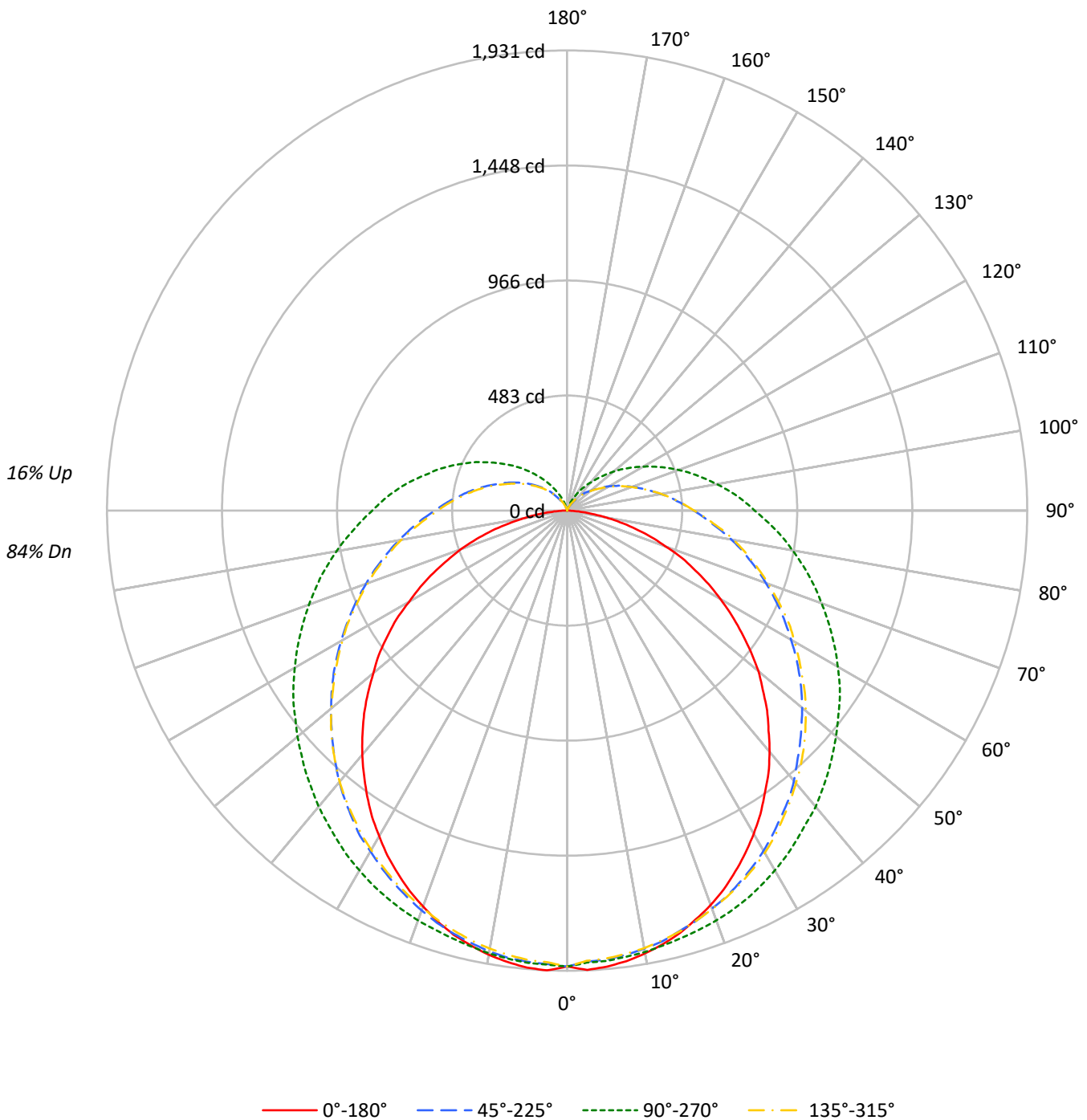
Lumens per Lamp: N/A  
Luminaire Lumens: 8311.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 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



TEST NUMBER: P#  
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### Luminous Intensity Polar Plot





TEST NUMBER: P#

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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°	7729	7729	7729	7729
5°	7781	7449	7797	7480
10°	7720	7237	7745	7260
15°	7641	7056	7674	7064
20°	7532	6924	7558	6924
25°	7395	6806	7440	6799
30°	7241	6685	7296	6685
35°	7059	6573	7138	6581
40°	6881	6508	6965	6508
45°	6676	6438	6778	6447
50°	6463	6398	6550	6415
55°	6160	6404	6355	6431
60°	5843	6423	6033	6463
65°	5488	6488	5731	6552
70°	4983	6607	5371	6701
75°	4405	6823	4822	6954
80°	3493	7143	3967	7308
85°	2222	7656	2777	7869



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	2.2
10°-20°	520.8	6.3
20°-30°	798.5	9.6
30°-40°	985.1	11.9
40°-50°	1068.8	12.9
50°-60°	1053.4	12.7
60°-70°	952.4	11.5
70°-80°	793.4	9.5
80°-90°	614.5	7.4
90°-100°	466.1	5.6
100°-110°	344.9	4.1
110°-120°	239.9	2.9
120°-130°	153.1	1.8
130°-140°	85.9	1.0
140°-150°	39.2	0.5
150°-160°	12.2	0.1
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1500.5	18.1
0°-40°	2485.6	29.9
0°-60°	4607.8	55.4
0°-90°	6968.2	83.8
90°-120°	1050.9	12.6
90°-150°	1329.1	16.0
90°-180°	1343.0	16.2
0°-180°	8311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1913	1913	1913	1913	1913	
5°	1921	1897	1925	1905	1921	182
15°	1834	1856	1842	1858	1834	517
25°	1671	1794	1681	1792	1671	770
35°	1447	1683	1463	1685	1447	906
45°	1186	1550	1205	1552	1186	914
55°	894	1396	922	1402	894	800
65°	593	1225	620	1237	593	588
75°	299	1049	327	1070	299	316
85°	56	874	71	898	56	68
90°	2	787	4	817	2	3
95°	2	714	2	749	2	2
105°	2	567	2	601	2	2
115°	2	432	2	470	2	2
125°	2	311	2	345	2	2
135°	2	202	2	238	2	2
145°	2	117	2	143	2	1
155°	2	48	2	67	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°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1929.1	1929.1	1927.1	1923.0	1925.1	1931.1	1927.1	1917.0	1910.9	1894.8	1898.8
5°	1921.0	1921.0	1919.0	1915.0	1917.0	1925.1	1921.0	1912.9	1904.9	1890.8	1896.8
7.5°	1906.9	1906.9	1904.9	1900.8	1904.9	1912.9	1908.9	1900.8	1894.8	1880.7	1886.7
10°	1886.7	1888.7	1886.7	1880.7	1888.7	1896.8	1894.8	1884.7	1878.6	1866.5	1872.6
12.5°	1862.5	1864.5	1862.5	1860.5	1864.5	1876.6	1872.6	1864.5	1860.5	1850.4	1856.4
15°	1834.3	1836.3	1832.2	1832.2	1836.3	1848.4	1848.4	1840.3	1836.3	1826.2	1838.3
17.5°	1797.9	1799.9	1797.9	1797.9	1802.0	1814.1	1816.1	1812.1	1808.0	1804.0	1816.1
20°	1761.6	1759.6	1759.6	1757.6	1765.6	1783.8	1781.8	1781.8	1777.8	1777.8	1791.9
22.5°	1719.2	1719.2	1717.2	1717.2	1727.3	1743.4	1743.4	1747.5	1743.4	1751.5	1763.6
25°	1670.8	1672.8	1670.8	1674.8	1682.9	1701.1	1703.1	1709.1	1711.2	1719.2	1733.4
27.5°	1620.4	1622.4	1620.4	1624.4	1638.5	1652.6	1662.7	1670.8	1672.8	1684.9	1703.1
30°	1565.9	1565.9	1567.9	1571.9	1588.1	1610.3	1618.3	1628.4	1628.4	1648.6	1666.8
32.5°	1509.4	1509.4	1509.4	1517.4	1535.6	1561.8	1571.9	1584.0	1588.1	1608.2	1628.4
35°	1446.8	1448.8	1448.8	1454.9	1479.1	1505.3	1519.5	1533.6	1541.7	1565.9	1586.1
37.5°	1388.3	1392.3	1386.3	1394.4	1428.7	1450.9	1467.0	1481.1	1495.2	1527.5	1543.7
40°	1321.7	1325.7	1323.7	1339.9	1368.1	1396.4	1414.5	1428.7	1448.8	1481.1	1499.3
42.5°	1251.1	1255.1	1259.2	1277.3	1307.6	1335.8	1358.0	1376.2	1400.4	1428.7	1458.9
45°	1186.5	1186.5	1192.6	1214.8	1247.0	1277.3	1303.5	1323.7	1352.0	1382.2	1412.5
47.5°	1113.9	1115.9	1124.0	1150.2	1184.5	1220.8	1245.0	1271.3	1301.5	1333.8	1368.1
50°	1047.3	1047.3	1059.4	1087.6	1119.9	1160.3	1186.5	1216.8	1249.1	1287.4	1321.7
52.5°	970.6	974.6	992.8	1019.0	1061.4	1097.7	1128.0	1160.3	1198.6	1239.0	1277.3
55°	893.9	902.0	916.1	952.4	996.8	1031.1	1067.5	1107.8	1144.1	1188.5	1232.9
57.5°	819.3	825.3	847.5	883.8	930.2	972.6	1011.0	1049.3	1093.7	1138.1	1184.5
60°	742.6	750.7	776.9	813.2	863.7	908.0	952.4	992.8	1039.2	1085.6	1134.0
62.5°	669.9	676.0	706.3	748.6	799.1	847.5	891.9	940.3	990.8	1035.2	1083.6
65°	593.3	603.3	637.6	676.0	734.5	782.9	833.4	885.8	938.3	986.7	1033.2
67.5°	522.6	528.7	565.0	609.4	667.9	722.4	774.9	831.4	885.8	936.3	982.7
70°	439.9	460.1	496.4	542.8	605.4	661.9	718.4	776.9	835.4	887.9	932.3
72.5°	371.3	387.4	427.8	478.2	538.8	605.4	663.9	726.4	785.0	839.4	885.8
75°	298.6	314.8	361.2	417.7	480.3	550.9	611.4	676.0	736.5	791.0	839.4
77.5°	228.0	248.2	298.6	357.2	425.8	498.4	561.0	625.5	688.1	746.6	795.0
80°	163.4	185.6	240.1	306.7	373.3	446.0	514.6	579.1	641.7	700.2	750.7
82.5°	104.9	129.1	187.7	254.3	324.9	397.5	468.1	532.7	595.3	653.8	706.3
85°	56.5	82.7	143.3	209.9	280.5	353.1	423.8	492.4	552.9	607.4	663.9
87.5°	16.1	48.4	106.9	173.5	246.2	312.8	381.4	450.0	510.5	569.0	619.5
90°	2.0	28.3	80.7	143.3	213.9	278.5	347.1	411.6	472.2	530.7	581.1
92.5°	2.0	18.2	62.6	119.1	183.6	250.2	318.8	381.4	437.9	496.4	546.8
95°	2.0	14.1	50.4	100.9	161.4	224.0	288.6	349.1	407.6	462.1	512.5
97.5°	2.0	10.1	40.4	86.8	141.3	199.8	262.3	322.9	379.4	431.8	478.2
100°	2.0	8.1	32.3	74.7	123.1	179.6	236.1	294.6	349.1	399.5	448.0
102.5°	2.0	6.1	28.3	62.6	109.0	159.4	213.9	268.4	320.8	369.3	417.7
105°	2.0	6.1	24.2	54.5	96.9	143.3	193.7	246.2	294.6	341.0	385.4
107.5°	2.0	4.0	20.2	46.4	84.8	129.1	175.6	226.0	270.4	314.8	357.2
110°	2.0	4.0	16.1	42.4	74.7	115.0	159.4	205.8	248.2	290.6	330.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	4.0	14.1	36.3	64.6	102.9	143.3	185.6	226.0	268.4	304.7
115°	2.0	4.0	12.1	32.3	60.5	88.8	129.1	167.5	207.8	246.2	280.5
117.5°	2.0	4.0	10.1	26.2	52.5	80.7	113.0	151.3	187.7	224.0	256.3
120°	2.0	4.0	8.1	24.2	46.4	72.6	100.9	135.2	169.5	203.8	238.1
122.5°	2.0	2.0	8.1	20.2	40.4	64.6	92.8	119.1	151.3	183.6	213.9
125°	2.0	2.0	8.1	18.2	34.3	58.5	82.7	106.9	135.2	163.4	189.7
127.5°	2.0	2.0	6.1	14.1	30.3	50.4	72.6	98.9	119.1	145.3	171.5
130°	2.0	2.0	6.1	12.1	26.2	42.4	64.6	86.8	111.0	129.1	151.3
132.5°	2.0	2.0	6.1	10.1	20.2	34.3	54.5	74.7	96.9	117.0	135.2
135°	2.0	2.0	4.0	8.1	16.1	28.3	44.4	62.6	84.8	104.9	123.1
137.5°	2.0	2.0	4.0	8.1	12.1	24.2	34.3	50.4	70.6	88.8	106.9
140°	2.0	2.0	4.0	6.1	10.1	18.2	28.3	40.4	56.5	72.6	92.8
142.5°	2.0	2.0	2.0	6.1	8.1	14.1	22.2	32.3	44.4	58.5	74.7
145°	2.0	2.0	2.0	6.1	8.1	10.1	18.2	26.2	34.3	44.4	58.5
147.5°	2.0	2.0	2.0	4.0	6.1	8.1	14.1	20.2	26.2	34.3	42.4
150°	2.0	2.0	2.0	4.0	6.1	8.1	10.1	14.1	20.2	28.3	34.3
152.5°	2.0	2.0	2.0	4.0	4.0	6.1	8.1	10.1	14.1	20.2	24.2
155°	2.0	2.0	2.0	2.0	4.0	6.1	8.1	8.1	10.1	14.1	18.2
157.5°	2.0	2.0	2.0	2.0	4.0	4.0	6.1	6.1	8.1	8.1	12.1
160°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.1	6.1	6.1	6.1
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	6.1	6.1
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°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1898.8	1900.8	1906.9	1906.9	1902.9	1902.9	1900.8	1898.8	1900.8	1904.9	1904.9
5°	1894.8	1896.8	1902.9	1904.9	1900.8	1898.8	1898.8	1896.8	1898.8	1902.9	1902.9
7.5°	1886.7	1888.7	1894.8	1896.8	1892.8	1892.8	1890.8	1888.7	1892.8	1894.8	1894.8
10°	1874.6	1876.6	1884.7	1886.7	1884.7	1882.7	1882.7	1880.7	1882.7	1886.7	1886.7
12.5°	1858.5	1862.5	1872.6	1872.6	1872.6	1870.6	1870.6	1868.6	1870.6	1874.6	1872.6
15°	1840.3	1848.4	1856.4	1860.5	1860.5	1860.5	1858.5	1856.4	1860.5	1862.5	1860.5
17.5°	1820.1	1830.2	1842.3	1846.4	1846.4	1848.4	1846.4	1844.3	1848.4	1848.4	1846.4
20°	1799.9	1810.0	1822.1	1826.2	1830.2	1832.2	1832.2	1830.2	1832.2	1834.3	1832.2
22.5°	1773.7	1785.8	1799.9	1806.0	1810.0	1814.1	1814.1	1814.1	1816.1	1818.1	1814.1
25°	1745.5	1759.6	1775.7	1781.8	1789.9	1791.9	1793.9	1793.9	1795.9	1797.9	1791.9
27.5°	1715.2	1731.3	1747.5	1757.6	1763.6	1767.7	1767.7	1769.7	1771.7	1773.7	1767.7
30°	1678.9	1703.1	1717.2	1725.3	1733.4	1739.4	1741.4	1743.4	1745.5	1747.5	1741.4
32.5°	1646.6	1666.8	1684.9	1695.0	1705.1	1713.2	1715.2	1715.2	1719.2	1719.2	1713.2
35°	1608.2	1632.5	1650.6	1660.7	1672.8	1678.9	1682.9	1682.9	1686.9	1686.9	1680.9
37.5°	1569.9	1594.1	1614.3	1626.4	1640.5	1648.6	1650.6	1650.6	1654.7	1654.7	1646.6
40°	1529.6	1555.8	1578.0	1592.1	1604.2	1614.3	1616.3	1622.4	1622.4	1620.4	1612.3
42.5°	1489.2	1513.4	1537.6	1553.8	1569.9	1580.0	1584.0	1586.1	1586.1	1584.0	1578.0
45°	1444.8	1473.1	1495.2	1515.4	1531.6	1541.7	1547.7	1549.7	1549.7	1545.7	1539.6
47.5°	1402.4	1430.7	1452.9	1475.1	1491.2	1503.3	1509.4	1511.4	1509.4	1507.4	1501.3
50°	1358.0	1390.3	1412.5	1434.7	1450.9	1460.9	1471.0	1473.1	1471.0	1469.0	1456.9
52.5°	1311.6	1345.9	1370.1	1392.3	1410.5	1422.6	1430.7	1432.7	1432.7	1428.7	1420.6
55°	1265.2	1295.5	1325.7	1350.0	1370.1	1382.2	1392.3	1396.4	1392.3	1388.3	1378.2
57.5°	1222.8	1251.1	1281.4	1307.6	1327.8	1343.9	1352.0	1356.0	1352.0	1345.9	1335.8
60°	1172.4	1202.7	1237.0	1261.2	1283.4	1299.5	1303.5	1311.6	1307.6	1301.5	1291.4
62.5°	1124.0	1160.3	1190.5	1220.8	1239.0	1257.1	1265.2	1269.2	1265.2	1259.2	1249.1
65°	1073.5	1113.9	1144.1	1174.4	1194.6	1212.7	1222.8	1224.9	1220.8	1214.8	1204.7
67.5°	1027.1	1065.4	1097.7	1130.0	1148.2	1166.3	1176.4	1180.5	1176.4	1168.4	1158.3
70°	980.7	1019.0	1057.4	1081.6	1103.8	1124.0	1130.0	1136.1	1132.0	1124.0	1111.9
72.5°	934.3	974.6	1013.0	1037.2	1061.4	1079.6	1087.6	1093.7	1089.7	1081.6	1067.5
75°	885.8	928.2	966.6	992.8	1017.0	1035.2	1043.2	1049.3	1045.3	1037.2	1021.0
77.5°	841.5	883.8	920.2	948.4	972.6	988.8	1002.9	1004.9	1000.9	992.8	976.7
80°	795.0	837.4	875.8	904.0	928.2	944.4	954.5	960.5	956.5	948.4	932.3
82.5°	754.7	793.0	831.4	859.6	883.8	904.0	912.1	918.1	916.1	904.0	891.9
85°	710.3	754.7	785.0	815.2	839.4	859.6	865.7	873.7	871.7	861.6	845.5
87.5°	665.9	710.3	746.6	776.9	799.1	815.2	825.3	829.3	827.3	817.2	799.1
90°	629.6	669.9	706.3	738.5	756.7	774.9	785.0	787.0	787.0	774.9	760.7
92.5°	595.3	633.6	669.9	700.2	722.4	738.5	746.6	750.7	748.6	738.5	722.4
95°	556.9	599.3	633.6	663.9	686.1	702.2	710.3	714.3	712.3	702.2	686.1
97.5°	524.6	563.0	597.3	625.5	647.7	663.9	672.0	676.0	676.0	665.9	649.8
100°	492.4	530.7	563.0	591.2	611.4	627.6	635.6	637.6	635.6	627.6	611.4
102.5°	460.1	496.4	528.7	554.9	577.1	591.2	599.3	601.3	601.3	591.2	575.1
105°	427.8	464.1	494.4	522.6	540.8	554.9	561.0	567.0	565.0	556.9	540.8
107.5°	397.5	433.8	462.1	488.3	506.5	520.6	526.7	532.7	530.7	522.6	506.5
110°	369.3	403.6	429.8	456.0	472.2	486.3	496.4	498.4	494.4	486.3	472.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	343.0	373.3	399.5	423.8	441.9	452.0	460.1	464.1	460.1	452.0	441.9
115°	314.8	345.1	371.3	393.5	409.6	421.7	427.8	431.8	427.8	419.7	409.6
117.5°	288.6	316.8	343.0	365.2	379.4	389.5	395.5	399.5	395.5	389.5	379.4
120°	266.4	290.6	314.8	335.0	351.1	359.2	365.2	369.3	367.3	359.2	349.1
122.5°	240.1	266.4	288.6	308.7	322.9	330.9	335.0	339.0	337.0	330.9	320.8
125°	217.9	240.1	262.3	280.5	294.6	302.7	306.7	310.8	308.7	302.7	290.6
127.5°	193.7	217.9	236.1	254.3	264.3	276.4	278.5	282.5	280.5	274.4	264.3
130°	175.6	193.7	211.9	228.0	240.1	248.2	252.2	254.3	250.2	246.2	236.1
132.5°	153.4	173.5	189.7	203.8	211.9	219.9	224.0	226.0	226.0	219.9	211.9
135°	137.2	151.3	165.5	179.6	187.7	195.7	199.8	201.8	199.8	195.7	187.7
137.5°	123.1	135.2	145.3	157.4	167.5	171.5	175.6	175.6	173.5	171.5	165.5
140°	106.9	121.1	131.2	139.2	147.3	149.3	153.4	153.4	151.3	149.3	145.3
142.5°	90.8	102.9	113.0	123.1	129.1	133.2	135.2	137.2	135.2	133.2	127.1
145°	72.6	86.8	96.9	102.9	111.0	113.0	115.0	117.0	115.0	113.0	106.9
147.5°	56.5	68.6	78.7	86.8	92.8	94.8	96.9	98.9	96.9	92.8	90.8
150°	40.4	50.4	62.6	70.6	74.7	78.7	78.7	78.7	80.7	76.7	72.6
152.5°	32.3	36.3	44.4	52.5	58.5	60.5	62.6	62.6	60.5	60.5	56.5
155°	22.2	26.2	32.3	38.3	44.4	46.4	48.4	48.4	46.4	46.4	44.4
157.5°	14.1	18.2	22.2	26.2	32.3	34.3	36.3	36.3	36.3	34.3	32.3
160°	8.1	10.1	12.1	16.1	20.2	22.2	24.2	24.2	24.2	24.2	22.2
162.5°	6.1	6.1	6.1	8.1	10.1	12.1	14.1	14.1	14.1	14.1	12.1
165°	4.0	4.0	4.0	4.0	4.0	6.1	8.1	8.1	8.1	8.1	8.1
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-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1902.9	1902.9	1904.9	1900.8	1888.7	1890.8	1890.8	1898.8	1902.9	1904.9	1915.0
5°	1898.8	1898.8	1902.9	1896.8	1886.7	1886.7	1886.7	1894.8	1896.8	1900.8	1908.9
7.5°	1892.8	1892.8	1894.8	1888.7	1876.6	1876.6	1874.6	1882.7	1886.7	1888.7	1896.8
10°	1882.7	1882.7	1884.7	1878.6	1864.5	1864.5	1862.5	1868.6	1870.6	1874.6	1880.7
12.5°	1868.6	1868.6	1868.6	1862.5	1848.4	1846.4	1844.3	1850.4	1850.4	1852.4	1858.5
15°	1856.4	1852.4	1852.4	1846.4	1832.2	1828.2	1824.2	1826.2	1830.2	1828.2	1832.2
17.5°	1842.3	1838.3	1834.3	1828.2	1810.0	1804.0	1799.9	1802.0	1799.9	1797.9	1802.0
20°	1826.2	1820.1	1818.1	1808.0	1789.9	1779.8	1771.7	1767.7	1769.7	1763.6	1765.6
22.5°	1808.0	1799.9	1795.9	1783.8	1765.6	1753.5	1743.4	1735.4	1733.4	1725.3	1727.3
25°	1785.8	1775.7	1769.7	1759.6	1739.4	1725.3	1713.2	1701.1	1695.0	1684.9	1682.9
27.5°	1759.6	1749.5	1741.4	1731.3	1711.2	1693.0	1678.9	1662.7	1654.7	1642.6	1636.5
30°	1733.4	1721.2	1709.1	1701.1	1678.9	1658.7	1636.5	1622.4	1610.3	1596.1	1586.1
32.5°	1701.1	1689.0	1676.9	1664.7	1644.6	1620.4	1602.2	1580.0	1565.9	1549.7	1537.6
35°	1668.8	1652.6	1640.5	1624.4	1606.2	1578.0	1555.8	1533.6	1515.4	1497.3	1483.1
37.5°	1632.5	1620.4	1602.2	1588.1	1565.9	1537.6	1513.4	1485.2	1469.0	1444.8	1426.6
40°	1598.2	1584.0	1565.9	1547.7	1525.5	1493.2	1467.0	1434.7	1416.6	1388.3	1370.1
42.5°	1563.9	1543.7	1525.5	1505.3	1481.1	1450.9	1418.6	1386.3	1362.1	1335.8	1309.6
45°	1525.5	1503.3	1481.1	1458.9	1434.7	1404.4	1370.1	1335.8	1305.6	1281.4	1249.1
47.5°	1485.2	1463.0	1436.7	1412.5	1386.3	1356.0	1319.7	1283.4	1251.1	1222.8	1188.5
50°	1444.8	1422.6	1394.4	1368.1	1337.9	1307.6	1269.2	1226.9	1192.6	1156.2	1126.0
52.5°	1402.4	1380.2	1354.0	1319.7	1287.4	1257.1	1216.8	1172.4	1134.0	1103.8	1065.4
55°	1360.0	1337.9	1307.6	1273.3	1241.0	1202.7	1164.3	1119.9	1077.5	1041.2	1002.9
57.5°	1315.7	1295.5	1261.2	1232.9	1192.6	1152.2	1111.9	1069.5	1023.1	980.7	936.3
60°	1271.3	1249.1	1216.8	1182.5	1142.1	1101.8	1059.4	1013.0	964.5	918.1	877.8
62.5°	1230.9	1202.7	1172.4	1136.1	1093.7	1055.4	1006.9	956.5	908.0	859.6	811.2
65°	1184.5	1154.2	1126.0	1089.7	1045.3	1000.9	952.4	902.0	849.5	797.1	748.6
67.5°	1138.1	1107.8	1077.5	1041.2	994.8	948.4	898.0	847.5	789.0	738.5	682.0
70°	1091.7	1067.5	1029.1	990.8	948.4	898.0	847.5	793.0	732.5	678.0	619.5
72.5°	1045.3	1021.0	982.7	942.3	902.0	849.5	795.0	740.6	684.1	621.5	559.0
75°	1000.9	970.6	936.3	898.0	855.6	801.1	746.6	690.1	623.5	565.0	500.4
77.5°	958.5	930.2	895.9	853.6	807.2	754.7	698.2	639.7	573.1	510.5	439.9
80°	912.1	883.8	849.5	807.2	760.7	710.3	649.8	589.2	524.6	456.0	383.4
82.5°	867.7	841.5	803.1	764.8	714.3	663.9	603.3	542.8	474.2	407.6	337.0
85°	821.3	795.0	758.7	718.4	669.9	615.5	559.0	498.4	429.8	361.2	290.6
87.5°	780.9	750.7	714.3	674.0	625.5	573.1	518.6	454.0	387.4	320.8	248.2
90°	738.5	710.3	674.0	633.6	585.2	532.7	476.2	415.7	351.1	282.5	213.9
92.5°	702.2	672.0	637.6	597.3	548.9	498.4	441.9	381.4	318.8	252.2	185.6
95°	665.9	635.6	603.3	563.0	514.6	464.1	407.6	349.1	288.6	224.0	161.4
97.5°	625.5	599.3	567.0	528.7	480.3	431.8	377.3	320.8	262.3	199.8	141.3
100°	593.3	563.0	532.7	492.4	448.0	401.6	347.1	292.6	236.1	177.6	123.1
102.5°	556.9	528.7	498.4	460.1	415.7	369.3	318.8	266.4	213.9	159.4	106.9
105°	522.6	496.4	464.1	427.8	385.4	341.0	292.6	244.2	193.7	141.3	94.8
107.5°	488.3	462.1	431.8	397.5	357.2	312.8	268.4	219.9	173.5	127.1	84.8
110°	454.0	429.8	401.6	367.3	328.9	288.6	246.2	201.8	155.4	113.0	74.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.8	399.5	371.3	339.0	302.7	264.3	224.0	181.6	139.2	100.9	64.6
115°	393.5	371.3	343.0	314.8	278.5	242.1	203.8	163.4	125.1	90.8	56.5
117.5°	363.2	341.0	314.8	286.5	254.3	219.9	183.6	145.3	113.0	80.7	50.4
120°	332.9	312.8	288.6	262.3	234.1	199.8	163.4	131.2	100.9	70.6	44.4
122.5°	304.7	286.5	264.3	240.1	209.9	177.6	147.3	119.1	90.8	62.6	36.3
125°	278.5	260.3	240.1	215.9	187.7	159.4	133.2	106.9	78.7	54.5	30.3
127.5°	252.2	234.1	213.9	191.7	169.5	143.3	119.1	94.8	70.6	48.4	26.2
130°	226.0	209.9	191.7	173.5	151.3	127.1	106.9	82.7	60.5	38.3	22.2
132.5°	199.8	187.7	171.5	153.4	133.2	115.0	92.8	72.6	52.5	34.3	20.2
135°	177.6	165.5	151.3	135.2	119.1	100.9	80.7	62.6	44.4	28.3	16.1
137.5°	157.4	147.3	133.2	119.1	104.9	86.8	70.6	52.5	36.3	24.2	12.1
140°	139.2	129.1	117.0	102.9	90.8	74.7	58.5	42.4	32.3	20.2	10.1
142.5°	121.1	111.0	100.9	88.8	76.7	62.6	48.4	36.3	26.2	16.1	10.1
145°	102.9	94.8	84.8	74.7	62.6	50.4	40.4	30.3	20.2	12.1	8.1
147.5°	84.8	78.7	68.6	60.5	50.4	40.4	32.3	24.2	16.1	10.1	6.1
150°	68.6	62.6	54.5	46.4	40.4	32.3	26.2	18.2	12.1	10.1	6.1
152.5°	52.5	48.4	42.4	38.3	32.3	24.2	18.2	14.1	10.1	8.1	4.0
155°	42.4	38.3	34.3	28.3	24.2	18.2	14.1	10.1	8.1	6.1	4.0
157.5°	30.3	28.3	24.2	20.2	16.1	12.1	10.1	10.1	6.1	4.0	2.0
160°	20.2	18.2	16.1	12.1	10.1	10.1	8.1	6.1	4.0	4.0	2.0
162.5°	12.1	10.1	10.1	10.1	8.1	8.1	6.1	4.0	4.0	2.0	2.0
165°	8.1	8.1	8.1	6.1	6.1	6.1	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-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1915.0	1908.9	1917.0	1931.1	1933.1	1931.1	1927.1	1933.1	1941.2	1939.2	1925.1
5°	1910.9	1902.9	1910.9	1925.1	1925.1	1923.0	1921.0	1927.1	1935.1	1933.1	1921.0
7.5°	1898.8	1890.8	1898.8	1910.9	1912.9	1908.9	1908.9	1915.0	1923.0	1921.0	1910.9
10°	1882.7	1874.6	1878.6	1892.8	1896.8	1892.8	1892.8	1898.8	1908.9	1906.9	1894.8
12.5°	1858.5	1852.4	1856.4	1868.6	1872.6	1870.6	1868.6	1876.6	1886.7	1886.7	1874.6
15°	1832.2	1824.2	1828.2	1842.3	1844.3	1840.3	1842.3	1848.4	1860.5	1860.5	1850.4
17.5°	1802.0	1791.9	1797.9	1808.0	1810.0	1810.0	1810.0	1818.1	1832.2	1830.2	1822.1
20°	1767.7	1753.5	1757.6	1767.7	1771.7	1771.7	1771.7	1785.8	1795.9	1795.9	1787.8
22.5°	1727.3	1717.2	1717.2	1727.3	1733.4	1731.3	1731.3	1743.4	1757.6	1755.6	1755.6
25°	1680.9	1672.8	1668.8	1680.9	1682.9	1684.9	1689.0	1701.1	1717.2	1717.2	1719.2
27.5°	1632.5	1624.4	1622.4	1632.5	1634.5	1636.5	1640.5	1654.7	1670.8	1672.8	1676.9
30°	1586.1	1573.9	1569.9	1578.0	1582.0	1584.0	1584.0	1606.2	1620.4	1626.4	1634.5
32.5°	1531.6	1519.5	1509.4	1523.5	1525.5	1529.6	1531.6	1553.8	1569.9	1580.0	1592.1
35°	1477.1	1456.9	1452.9	1463.0	1467.0	1469.0	1473.1	1497.3	1519.5	1527.5	1543.7
37.5°	1416.6	1402.4	1390.3	1400.4	1404.4	1406.5	1418.6	1440.8	1463.0	1475.1	1491.2
40°	1360.0	1341.9	1331.8	1337.9	1341.9	1343.9	1358.0	1382.2	1408.5	1422.6	1442.8
42.5°	1297.5	1273.3	1265.2	1271.3	1273.3	1279.3	1291.4	1323.7	1350.0	1370.1	1386.3
45°	1234.9	1216.8	1198.6	1204.7	1206.7	1210.7	1228.9	1263.2	1291.4	1315.7	1333.8
47.5°	1170.4	1148.2	1130.0	1134.0	1142.1	1144.1	1164.3	1204.7	1230.9	1257.1	1281.4
50°	1105.8	1075.5	1061.4	1061.4	1065.4	1075.5	1101.8	1142.1	1170.4	1200.6	1226.9
52.5°	1039.2	1011.0	994.8	996.8	1000.9	1013.0	1037.2	1077.5	1109.8	1142.1	1174.4
55°	972.6	942.3	926.2	922.2	926.2	942.3	970.6	1013.0	1045.3	1083.6	1117.9
57.5°	906.0	869.7	855.6	849.5	853.6	873.7	902.0	946.4	986.7	1023.1	1063.4
60°	833.4	805.1	780.9	766.8	776.9	803.1	833.4	879.8	922.2	962.5	1006.9
62.5°	770.8	734.5	708.3	694.2	704.2	726.4	768.8	813.2	859.6	906.0	950.4
65°	700.2	663.9	633.6	619.5	629.6	655.8	698.2	746.6	797.1	843.5	895.9
67.5°	631.6	593.3	556.9	542.8	554.9	583.2	629.6	684.1	738.5	787.0	843.5
70°	565.0	522.6	484.3	474.2	482.3	520.6	565.0	619.5	676.0	732.5	791.0
72.5°	504.5	452.0	411.6	399.5	409.6	452.0	502.5	559.0	619.5	680.0	742.6
75°	433.8	385.4	341.0	326.9	339.0	377.3	439.9	500.4	565.0	629.6	688.1
77.5°	377.3	320.8	274.4	252.2	272.4	320.8	381.4	446.0	512.5	579.1	645.7
80°	318.8	260.3	209.9	185.6	207.8	260.3	320.8	391.5	466.1	532.7	593.3
82.5°	266.4	203.8	151.3	125.1	149.3	207.8	274.4	345.1	417.7	484.3	554.9
85°	217.9	153.4	98.9	70.6	104.9	157.4	228.0	300.7	375.3	443.9	512.5
87.5°	177.6	115.0	60.5	30.3	64.6	123.1	189.7	262.3	337.0	405.6	470.2
90°	145.3	82.7	32.3	4.0	38.3	92.8	157.4	228.0	298.6	369.3	433.8
92.5°	119.1	62.6	18.2	2.0	24.2	74.7	135.2	201.8	270.4	339.0	401.6
95°	98.9	48.4	12.1	2.0	18.2	58.5	115.0	179.6	244.2	310.8	373.3
97.5°	84.8	40.4	10.1	2.0	14.1	50.4	98.9	159.4	222.0	284.5	345.1
100°	72.6	32.3	8.1	2.0	12.1	42.4	86.8	141.3	199.8	260.3	318.8
102.5°	62.6	26.2	6.1	2.0	10.1	36.3	76.7	127.1	179.6	238.1	294.6
105°	54.5	22.2	6.1	2.0	8.1	32.3	68.6	113.0	165.5	217.9	272.4
107.5°	46.4	18.2	4.0	2.0	6.1	26.2	60.5	102.9	149.3	199.8	250.2
110°	40.4	16.1	4.0	2.0	6.1	24.2	52.5	92.8	135.2	181.6	230.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	34.3	12.1	4.0	2.0	4.0	20.2	46.4	82.7	123.1	165.5	211.9
115°	30.3	10.1	2.0	2.0	4.0	18.2	42.4	74.7	111.0	151.3	193.7
117.5°	24.2	8.1	2.0	2.0	2.0	14.1	36.3	66.6	100.9	139.2	177.6
120°	20.2	8.1	2.0	2.0	2.0	12.1	32.3	58.5	90.8	125.1	161.4
122.5°	18.2	6.1	2.0	2.0	2.0	10.1	28.3	52.5	80.7	113.0	147.3
125°	16.1	6.1	2.0	2.0	2.0	8.1	24.2	46.4	72.6	100.9	133.2
127.5°	12.1	6.1	2.0	2.0	2.0	6.1	22.2	40.4	64.6	90.8	119.1
130°	10.1	4.0	2.0	2.0	2.0	6.1	18.2	36.3	56.5	80.7	106.9
132.5°	8.1	4.0	2.0	2.0	2.0	4.0	14.1	28.3	48.4	70.6	94.8
135°	8.1	4.0	2.0	2.0	2.0	4.0	10.1	24.2	40.4	60.5	80.7
137.5°	8.1	2.0	2.0	2.0	2.0	4.0	8.1	18.2	32.3	48.4	66.6
140°	6.1	2.0	2.0	2.0	2.0	2.0	6.1	14.1	26.2	40.4	56.5
142.5°	6.1	2.0	2.0	2.0	2.0	2.0	6.1	10.1	20.2	32.3	44.4
145°	4.0	2.0	2.0	2.0	2.0	2.0	4.0	8.1	16.1	24.2	36.3
147.5°	4.0	2.0	2.0	2.0	2.0	2.0	4.0	6.1	12.1	20.2	28.3
150°	4.0	2.0	2.0	2.0	2.0	2.0	4.0	6.1	8.1	14.1	22.2
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.1	10.1	14.1
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.1	8.1	10.1
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.1	8.1
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.1
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-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1919.0	1904.9	1908.9	1906.9	1910.9	1917.0	1917.0	1915.0	1915.0	1910.9	1906.9
5°	1915.0	1900.8	1906.9	1904.9	1908.9	1915.0	1915.0	1912.9	1912.9	1906.9	1904.9
7.5°	1902.9	1892.8	1896.8	1896.8	1900.8	1906.9	1906.9	1904.9	1904.9	1898.8	1896.8
10°	1890.8	1878.6	1884.7	1884.7	1888.7	1896.8	1896.8	1894.8	1894.8	1888.7	1886.7
12.5°	1870.6	1858.5	1868.6	1870.6	1874.6	1882.7	1880.7	1880.7	1880.7	1874.6	1872.6
15°	1846.4	1838.3	1848.4	1850.4	1856.4	1866.5	1866.5	1866.5	1866.5	1860.5	1858.5
17.5°	1820.1	1814.1	1824.2	1828.2	1836.3	1846.4	1846.4	1848.4	1850.4	1846.4	1844.3
20°	1789.9	1785.8	1795.9	1804.0	1816.1	1826.2	1830.2	1832.2	1836.3	1832.2	1830.2
22.5°	1755.6	1755.6	1769.7	1777.8	1791.9	1802.0	1808.0	1814.1	1818.1	1814.1	1812.1
25°	1717.2	1723.3	1737.4	1751.5	1767.7	1777.8	1783.8	1791.9	1795.9	1793.9	1791.9
27.5°	1680.9	1689.0	1707.1	1721.2	1735.4	1751.5	1757.6	1767.7	1771.7	1771.7	1769.7
30°	1638.5	1650.6	1670.8	1686.9	1705.1	1721.2	1729.3	1739.4	1745.5	1741.4	1743.4
32.5°	1598.2	1618.3	1634.5	1652.6	1672.8	1689.0	1699.1	1711.2	1717.2	1715.2	1717.2
35°	1553.8	1573.9	1596.1	1614.3	1638.5	1654.7	1668.8	1678.9	1686.9	1684.9	1684.9
37.5°	1505.3	1531.6	1553.8	1578.0	1600.2	1618.3	1632.5	1644.6	1652.6	1652.6	1652.6
40°	1458.9	1487.2	1509.4	1537.6	1565.9	1582.0	1598.2	1610.3	1618.3	1620.4	1622.4
42.5°	1408.5	1438.7	1465.0	1495.2	1523.5	1543.7	1561.8	1576.0	1584.0	1588.1	1586.1
45°	1362.1	1390.3	1420.6	1454.9	1481.1	1501.3	1523.5	1539.6	1547.7	1549.7	1551.7
47.5°	1309.6	1341.9	1376.2	1410.5	1436.7	1463.0	1483.1	1499.3	1507.4	1513.4	1513.4
50°	1259.2	1293.5	1331.8	1368.1	1396.4	1422.6	1442.8	1460.9	1471.0	1475.1	1477.1
52.5°	1212.7	1245.0	1285.4	1321.7	1350.0	1376.2	1402.4	1422.6	1432.7	1436.7	1436.7
55°	1156.2	1196.6	1241.0	1275.3	1305.6	1335.8	1362.1	1382.2	1392.3	1398.4	1402.4
57.5°	1103.8	1146.2	1192.6	1228.9	1265.2	1293.5	1317.7	1343.9	1352.0	1360.0	1362.1
60°	1053.3	1095.7	1140.1	1180.5	1216.8	1247.0	1275.3	1297.5	1311.6	1315.7	1319.7
62.5°	1000.9	1045.3	1091.7	1132.0	1170.4	1206.7	1232.9	1253.1	1269.2	1275.3	1279.3
65°	950.4	996.8	1043.2	1085.6	1126.0	1162.3	1188.5	1208.7	1224.9	1234.9	1237.0
67.5°	895.9	946.4	994.8	1039.2	1079.6	1117.9	1144.1	1164.3	1180.5	1192.6	1194.6
70°	845.5	898.0	946.4	994.8	1035.2	1073.5	1101.8	1121.9	1140.1	1148.2	1152.2
72.5°	797.1	851.5	902.0	950.4	990.8	1029.1	1059.4	1079.6	1097.7	1107.8	1109.8
75°	750.7	805.1	859.6	906.0	948.4	986.7	1017.0	1039.2	1055.4	1065.4	1069.5
77.5°	704.2	760.7	815.2	861.6	906.0	944.4	970.6	996.8	1013.0	1025.1	1025.1
80°	657.8	716.3	772.8	819.3	863.7	898.0	928.2	954.5	970.6	982.7	982.7
82.5°	617.5	674.0	728.5	774.9	819.3	857.6	887.9	912.1	930.2	938.3	940.3
85°	571.1	633.6	684.1	734.5	776.9	813.2	843.5	869.7	885.8	893.9	898.0
87.5°	532.7	593.3	647.7	692.1	734.5	770.8	805.1	827.3	843.5	853.6	857.6
90°	496.4	554.9	609.4	653.8	698.2	732.5	764.8	787.0	805.1	813.2	817.2
92.5°	464.1	522.6	575.1	619.5	661.9	700.2	730.5	752.7	768.8	776.9	782.9
95°	433.8	490.3	540.8	589.2	629.6	663.9	696.2	718.4	736.5	742.6	748.6
97.5°	403.6	458.1	508.5	554.9	597.3	629.6	659.8	682.0	696.2	706.3	712.3
100°	377.3	429.8	478.2	522.6	563.0	593.3	625.5	645.7	659.8	667.9	676.0
102.5°	349.1	401.6	448.0	490.3	532.7	561.0	591.2	611.4	623.5	637.6	637.6
105°	324.9	373.3	419.7	460.1	496.4	530.7	556.9	577.1	591.2	601.3	601.3
107.5°	298.6	347.1	391.5	433.8	468.1	500.4	524.6	542.8	559.0	565.0	571.1
110°	278.5	320.8	365.2	405.6	437.9	468.1	492.4	512.5	526.7	532.7	536.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	254.3	298.6	339.0	377.3	409.6	437.9	462.1	478.2	492.4	500.4	502.5
115°	234.1	276.4	312.8	349.1	383.4	407.6	429.8	446.0	460.1	466.1	470.2
117.5°	215.9	254.3	290.6	320.8	353.1	379.4	401.6	415.7	427.8	435.9	439.9
120°	197.8	234.1	266.4	296.6	326.9	351.1	371.3	385.4	399.5	405.6	405.6
122.5°	179.6	213.9	244.2	272.4	300.7	322.9	345.1	357.2	369.3	375.3	375.3
125°	163.4	195.7	224.0	250.2	276.4	296.6	314.8	328.9	341.0	345.1	345.1
127.5°	147.3	177.6	203.8	228.0	250.2	270.4	288.6	302.7	312.8	316.8	316.8
130°	133.2	159.4	183.6	207.8	230.0	246.2	264.3	276.4	282.5	288.6	290.6
132.5°	119.1	143.3	165.5	185.6	207.8	224.0	238.1	250.2	256.3	262.3	264.3
135°	104.9	127.1	147.3	167.5	185.6	201.8	213.9	224.0	232.1	236.1	238.1
137.5°	88.8	113.0	131.2	147.3	167.5	179.6	193.7	199.8	207.8	211.9	211.9
140°	74.7	92.8	113.0	129.1	145.3	157.4	169.5	179.6	185.6	187.7	187.7
142.5°	60.5	76.7	92.8	113.0	127.1	137.2	149.3	157.4	161.4	163.4	165.5
145°	48.4	60.5	74.7	92.8	109.0	121.1	127.1	135.2	139.2	141.3	143.3
147.5°	36.3	48.4	60.5	72.6	88.8	100.9	106.9	115.0	119.1	121.1	121.1
150°	28.3	36.3	44.4	56.5	68.6	82.7	90.8	96.9	98.9	100.9	100.9
152.5°	20.2	28.3	34.3	42.4	50.4	62.6	74.7	78.7	80.7	82.7	82.7
155°	14.1	20.2	24.2	30.3	36.3	46.4	56.5	62.6	64.6	66.6	66.6
157.5°	10.1	14.1	16.1	22.2	26.2	30.3	38.3	48.4	50.4	50.4	50.4
160°	6.1	8.1	10.1	14.1	16.1	20.2	24.2	30.3	36.3	36.3	36.3
162.5°	4.0	6.1	6.1	8.1	8.1	12.1	14.1	16.1	22.2	24.2	24.2
165°	2.0	4.0	4.0	4.0	4.0	4.0	6.1	6.1	10.1	12.1	12.1
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-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1908.9	1912.9	1910.9	1910.9	1910.9	1915.0	1910.9	1892.8	1896.8	1900.8	1904.9
5°	1906.9	1908.9	1908.9	1906.9	1906.9	1910.9	1906.9	1888.7	1892.8	1896.8	1898.8
7.5°	1898.8	1900.8	1900.8	1900.8	1898.8	1902.9	1896.8	1880.7	1880.7	1884.7	1886.7
10°	1888.7	1892.8	1890.8	1888.7	1888.7	1888.7	1884.7	1866.5	1866.5	1868.6	1870.6
12.5°	1876.6	1876.6	1876.6	1874.6	1872.6	1872.6	1868.6	1850.4	1848.4	1852.4	1850.4
15°	1860.5	1864.5	1860.5	1858.5	1854.4	1854.4	1848.4	1830.2	1826.2	1828.2	1826.2
17.5°	1846.4	1848.4	1844.3	1840.3	1836.3	1834.3	1828.2	1808.0	1802.0	1804.0	1799.9
20°	1832.2	1832.2	1828.2	1824.2	1818.1	1812.1	1804.0	1783.8	1773.7	1773.7	1765.6
22.5°	1814.1	1814.1	1810.0	1804.0	1797.9	1789.9	1781.8	1761.6	1745.5	1741.4	1735.4
25°	1793.9	1791.9	1789.9	1783.8	1771.7	1763.6	1755.6	1733.4	1715.2	1707.1	1697.0
27.5°	1769.7	1769.7	1763.6	1757.6	1745.5	1735.4	1725.3	1705.1	1680.9	1670.8	1656.7
30°	1743.4	1743.4	1737.4	1729.3	1717.2	1705.1	1693.0	1668.8	1644.6	1630.4	1614.3
32.5°	1717.2	1715.2	1709.1	1701.1	1689.0	1670.8	1660.7	1636.5	1608.2	1592.1	1569.9
35°	1684.9	1682.9	1676.9	1666.8	1650.6	1636.5	1620.4	1598.2	1565.9	1545.7	1521.5
37.5°	1652.6	1650.6	1646.6	1632.5	1616.3	1600.2	1580.0	1557.8	1527.5	1501.3	1477.1
40°	1620.4	1618.3	1610.3	1600.2	1580.0	1559.8	1539.6	1517.4	1485.2	1454.9	1428.7
42.5°	1586.1	1584.0	1573.9	1561.8	1539.6	1519.5	1495.2	1471.0	1438.7	1402.4	1376.2
45°	1551.7	1547.7	1537.6	1523.5	1499.3	1477.1	1452.9	1424.6	1392.3	1358.0	1323.7
47.5°	1515.4	1509.4	1499.3	1479.1	1458.9	1434.7	1406.5	1376.2	1343.9	1305.6	1269.2
50°	1475.1	1471.0	1458.9	1440.8	1416.6	1392.3	1360.0	1329.8	1291.4	1255.1	1210.7
52.5°	1436.7	1428.7	1418.6	1398.4	1374.2	1347.9	1313.6	1277.3	1239.0	1204.7	1158.3
55°	1396.4	1392.3	1378.2	1362.1	1331.8	1301.5	1269.2	1230.9	1188.5	1148.2	1103.8
57.5°	1358.0	1350.0	1337.9	1315.7	1289.4	1259.2	1224.9	1184.5	1138.1	1095.7	1047.3
60°	1319.7	1307.6	1293.5	1273.3	1245.0	1212.7	1176.4	1134.0	1087.6	1041.2	990.8
62.5°	1277.3	1267.2	1251.1	1230.9	1202.7	1168.4	1130.0	1085.6	1041.2	992.8	938.3
65°	1234.9	1224.9	1208.7	1188.5	1160.3	1121.9	1081.6	1037.2	986.7	940.3	881.8
67.5°	1192.6	1182.5	1164.3	1142.1	1113.9	1077.5	1035.2	988.8	938.3	887.9	827.3
70°	1150.2	1138.1	1121.9	1097.7	1069.5	1031.1	988.8	940.3	889.9	835.4	774.9
72.5°	1107.8	1097.7	1077.5	1055.4	1025.1	986.7	944.4	895.9	843.5	787.0	726.4
75°	1065.4	1053.3	1039.2	1013.0	980.7	944.4	900.0	851.5	795.0	740.6	678.0
77.5°	1023.1	1013.0	994.8	968.6	938.3	900.0	855.6	807.2	750.7	694.2	627.6
80°	980.7	968.6	954.5	930.2	895.9	857.6	811.2	762.8	706.3	647.7	581.1
82.5°	938.3	926.2	910.1	885.8	853.6	815.2	770.8	718.4	661.9	601.3	538.8
85°	895.9	885.8	867.7	843.5	809.2	770.8	726.4	680.0	619.5	559.0	496.4
87.5°	853.6	843.5	825.3	801.1	768.8	730.5	686.1	637.6	579.1	522.6	454.0
90°	813.2	805.1	787.0	762.8	730.5	692.1	651.8	599.3	542.8	486.3	421.7
92.5°	776.9	768.8	752.7	728.5	700.2	657.8	617.5	567.0	510.5	452.0	389.5
95°	744.6	734.5	718.4	696.2	661.9	625.5	585.2	534.7	480.3	421.7	361.2
97.5°	708.3	698.2	682.0	657.8	629.6	591.2	550.9	502.5	448.0	393.5	332.9
100°	672.0	661.9	643.7	623.5	595.3	556.9	518.6	470.2	419.7	367.3	308.7
102.5°	635.6	625.5	609.4	589.2	561.0	526.7	488.3	441.9	391.5	339.0	284.5
105°	601.3	591.2	575.1	554.9	528.7	494.4	454.0	413.7	365.2	314.8	262.3
107.5°	567.0	556.9	542.8	522.6	496.4	464.1	425.8	383.4	339.0	290.6	240.1
110°	532.7	524.6	508.5	490.3	464.1	431.8	397.5	357.2	312.8	268.4	219.9





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	500.4	492.4	476.2	456.0	433.8	403.6	369.3	330.9	288.6	246.2	199.8
115°	468.1	458.1	443.9	425.8	403.6	375.3	343.0	308.7	266.4	226.0	183.6
117.5°	435.9	427.8	413.7	395.5	375.3	347.1	316.8	284.5	244.2	205.8	167.5
120°	403.6	397.5	383.4	367.3	347.1	320.8	292.6	260.3	224.0	187.7	151.3
122.5°	373.3	367.3	353.1	339.0	318.8	294.6	268.4	238.1	205.8	171.5	139.2
125°	345.1	337.0	324.9	310.8	292.6	270.4	244.2	215.9	185.6	155.4	125.1
127.5°	314.8	308.7	300.7	284.5	266.4	246.2	222.0	197.8	169.5	141.3	113.0
130°	290.6	282.5	272.4	260.3	244.2	224.0	201.8	177.6	153.4	127.1	98.9
132.5°	262.3	254.3	246.2	234.1	219.9	201.8	181.6	159.4	137.2	113.0	88.8
135°	236.1	230.0	222.0	209.9	195.7	181.6	161.4	141.3	121.1	98.9	78.7
137.5°	211.9	205.8	197.8	189.7	175.6	161.4	143.3	125.1	106.9	86.8	68.6
140°	187.7	183.6	175.6	167.5	155.4	141.3	125.1	109.0	92.8	74.7	58.5
142.5°	163.4	159.4	153.4	145.3	135.2	123.1	109.0	94.8	78.7	64.6	50.4
145°	141.3	139.2	133.2	125.1	117.0	104.9	92.8	80.7	66.6	54.5	40.4
147.5°	119.1	117.0	113.0	106.9	98.9	88.8	78.7	66.6	56.5	44.4	32.3
150°	98.9	96.9	94.8	86.8	82.7	72.6	64.6	54.5	46.4	34.3	26.2
152.5°	80.7	80.7	76.7	70.6	66.6	58.5	52.5	44.4	36.3	28.3	20.2
155°	64.6	62.6	60.5	56.5	52.5	46.4	40.4	34.3	28.3	20.2	14.1
157.5°	50.4	48.4	46.4	42.4	38.3	36.3	30.3	24.2	18.2	14.1	10.1
160°	36.3	34.3	32.3	30.3	28.3	24.2	20.2	16.1	12.1	8.1	6.1
162.5°	24.2	22.2	22.2	20.2	18.2	14.1	12.1	10.1	8.1	6.1	4.0
165°	12.1	12.1	10.1	10.1	8.1	6.1	6.1	6.1	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-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1902.9	1902.9	1910.9	1908.9	1902.9	1915.0	1929.1
5°	1896.8	1896.8	1902.9	1902.9	1896.8	1908.9	1921.0
7.5°	1886.7	1884.7	1890.8	1890.8	1882.7	1892.8	1906.9
10°	1868.6	1866.5	1872.6	1872.6	1864.5	1874.6	1886.7
12.5°	1848.4	1844.3	1850.4	1848.4	1840.3	1850.4	1862.5
15°	1822.1	1820.1	1824.2	1820.1	1812.1	1822.1	1834.3
17.5°	1795.9	1789.9	1791.9	1791.9	1777.8	1787.8	1797.9
20°	1761.6	1753.5	1755.6	1753.5	1743.4	1749.5	1761.6
22.5°	1727.3	1715.2	1715.2	1713.2	1701.1	1709.1	1719.2
25°	1684.9	1670.8	1670.8	1668.8	1654.7	1660.7	1670.8
27.5°	1642.6	1628.4	1622.4	1620.4	1606.2	1606.2	1620.4
30°	1598.2	1578.0	1573.9	1567.9	1553.8	1553.8	1565.9
32.5°	1555.8	1527.5	1519.5	1511.4	1497.3	1495.2	1509.4
35°	1499.3	1477.1	1463.0	1454.9	1438.7	1434.7	1446.8
37.5°	1452.9	1424.6	1404.4	1394.4	1378.2	1372.2	1388.3
40°	1402.4	1372.2	1345.9	1339.9	1315.7	1307.6	1321.7
42.5°	1345.9	1313.6	1287.4	1275.3	1257.1	1249.1	1251.1
45°	1289.4	1255.1	1226.9	1210.7	1192.6	1178.4	1186.5
47.5°	1230.9	1200.6	1166.3	1142.1	1119.9	1109.8	1113.9
50°	1172.4	1136.1	1103.8	1077.5	1051.3	1039.2	1047.3
52.5°	1113.9	1075.5	1039.2	1011.0	980.7	968.6	970.6
55°	1057.4	1017.0	974.6	944.4	916.1	898.0	893.9
57.5°	1000.9	956.5	912.1	877.8	841.5	825.3	819.3
60°	940.3	893.9	847.5	807.2	768.8	750.7	742.6
62.5°	883.8	833.4	780.9	738.5	700.2	676.0	669.9
65°	829.3	770.8	718.4	669.9	627.6	601.3	593.3
67.5°	770.8	710.3	653.8	601.3	561.0	526.7	522.6
70°	716.3	651.8	589.2	534.7	490.3	456.0	439.9
72.5°	661.9	595.3	530.7	472.2	415.7	383.4	371.3
75°	609.4	540.8	472.2	411.6	349.1	310.8	298.6
77.5°	561.0	490.3	417.7	351.1	292.6	244.2	228.0
80°	514.6	441.9	365.2	296.6	234.1	181.6	163.4
82.5°	466.1	397.5	318.8	246.2	181.6	127.1	104.9
85°	423.8	355.1	276.4	203.8	139.2	80.7	56.5
87.5°	389.5	314.8	244.2	171.5	104.9	46.4	16.1
90°	355.1	282.5	211.9	141.3	78.7	26.2	2.0
92.5°	324.9	256.3	185.6	121.1	60.5	18.2	2.0
95°	296.6	230.0	163.4	100.9	48.4	12.1	2.0
97.5°	270.4	207.8	145.3	86.8	40.4	10.1	2.0
100°	248.2	187.7	129.1	76.7	34.3	8.1	2.0
102.5°	226.0	169.5	115.0	66.6	30.3	6.1	2.0
105°	207.8	153.4	102.9	60.5	26.2	6.1	2.0
107.5°	189.7	139.2	92.8	52.5	22.2	4.0	2.0
110°	171.5	127.1	82.7	46.4	20.2	4.0	2.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	157.4	115.0	74.7	42.4	16.1	4.0	2.0
115°	143.3	102.9	66.6	36.3	14.1	2.0	2.0
117.5°	129.1	92.8	58.5	32.3	12.1	2.0	2.0
120°	117.0	82.7	52.5	28.3	10.1	2.0	2.0
122.5°	104.9	74.7	46.4	24.2	8.1	2.0	2.0
125°	94.8	66.6	40.4	20.2	6.1	2.0	2.0
127.5°	84.8	58.5	36.3	18.2	6.1	2.0	2.0
130°	74.7	52.5	30.3	14.1	4.0	2.0	2.0
132.5°	66.6	44.4	26.2	12.1	4.0	2.0	2.0
135°	58.5	38.3	22.2	8.1	4.0	2.0	2.0
137.5°	50.4	32.3	18.2	6.1	2.0	2.0	2.0
140°	42.4	28.3	14.1	6.1	2.0	2.0	2.0
142.5°	36.3	22.2	10.1	4.0	2.0	2.0	2.0
145°	28.3	18.2	8.1	4.0	2.0	2.0	2.0
147.5°	22.2	14.1	6.1	4.0	2.0	2.0	2.0
150°	16.1	10.1	6.1	2.0	2.0	2.0	2.0
152.5°	12.1	8.1	4.0	2.0	2.0	2.0	2.0
155°	8.1	6.1	4.0	2.0	2.0	2.0	2.0
157.5°	6.1	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)