

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-LD5-128SL-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-LD5-128SL-LW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

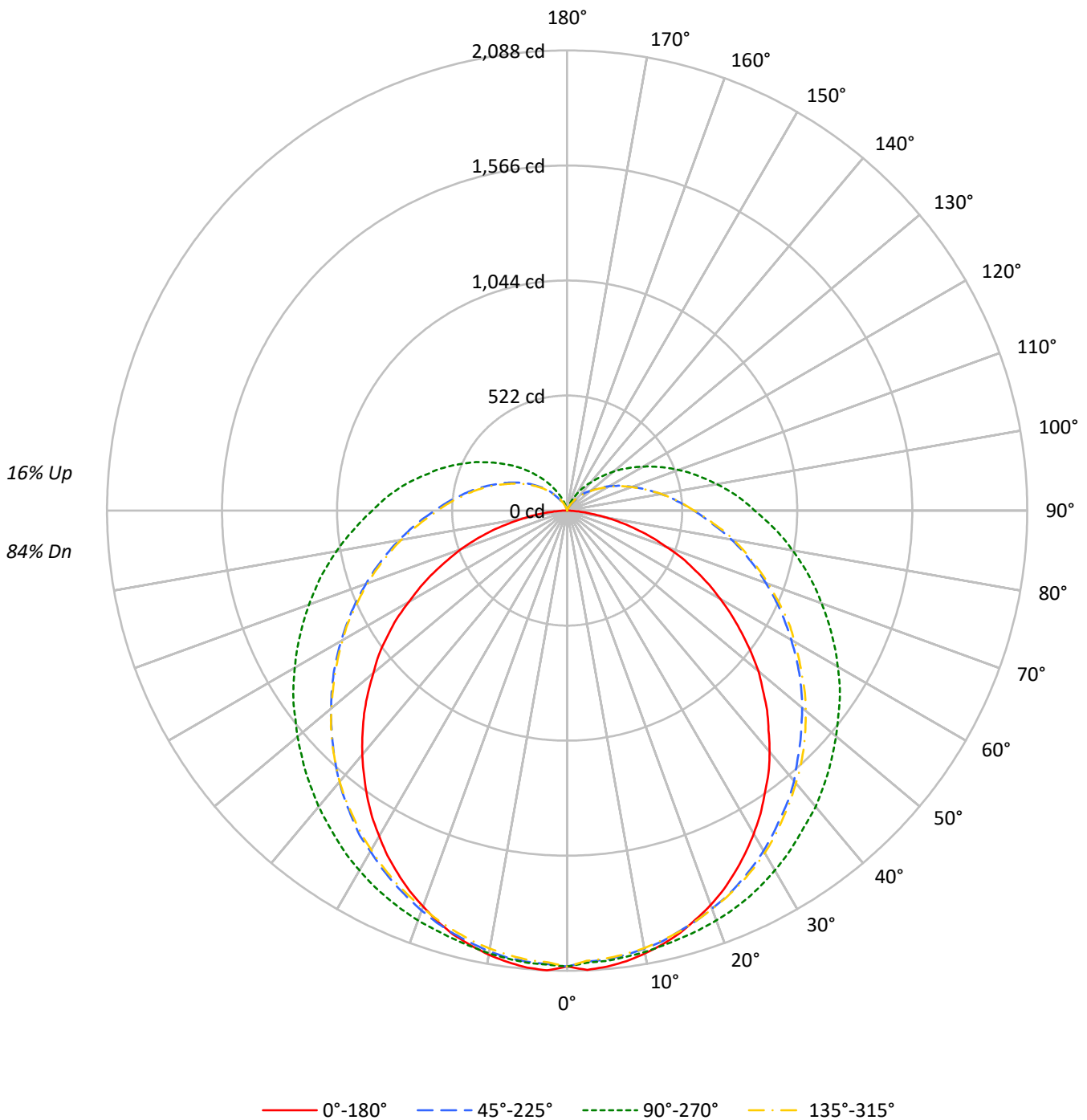
Lumens per Lamp: N/A
Luminaire Lumens: 8987.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 103
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																		
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°	8358	8358	8358	8358
5°	8414	8055	8431	8089
10°	8348	7826	8374	7851
15°	8262	7630	8299	7638
20°	8144	7487	8172	7487
25°	7996	7360	8045	7351
30°	7829	7229	7890	7229
35°	7633	7108	7719	7117
40°	7441	7037	7532	7037
45°	7218	6962	7329	6971
50°	6989	6918	7082	6937
55°	6661	6924	6871	6955
60°	6318	6946	6524	6988
65°	5934	7016	6197	7085
70°	5388	7145	5809	7246
75°	4763	7377	5215	7520
80°	3777	7724	4290	7902
85°	2403	8279	3005	8509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	2.2
10°-20°	563.2	6.3
20°-30°	863.5	9.6
30°-40°	1065.2	11.9
40°-50°	1155.7	12.9
50°-60°	1139.1	12.7
60°-70°	1029.9	11.5
70°-80°	858.0	9.5
80°-90°	664.5	7.4
90°-100°	504.0	5.6
100°-110°	373.0	4.2
110°-120°	259.4	2.9
120°-130°	165.5	1.8
130°-140°	92.9	1.0
140°-150°	42.4	0.5
150°-160°	13.1	0.1
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1622.6	18.1
0°-40°	2687.8	29.9
0°-60°	4982.6	55.4
0°-90°	7535.0	83.8
90°-120°	1136.4	12.6
90°-150°	1437.2	16.0
90°-180°	1452.0	16.2
0°-180°	8987.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2068	2068	2068	2068	2068	
5°	2077	2051	2082	2060	2077	197
15°	1983	2007	1992	2010	1983	559
25°	1807	1940	1818	1938	1807	832
35°	1564	1820	1582	1822	1564	980
45°	1283	1676	1303	1678	1283	988
55°	967	1510	997	1516	967	865
65°	642	1324	670	1338	642	636
75°	323	1135	354	1156	323	342
85°	61	945	76	971	61	74
90°	2	851	4	884	2	3
95°	2	772	2	810	2	2
105°	2	613	2	650	2	2
115°	2	467	2	508	2	2
125°	2	336	2	373	2	2
135°	2	218	2	258	2	2
145°	2	127	2	155	2	1
155°	2	52	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°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2086.0	2086.0	2083.8	2079.5	2081.6	2088.2	2083.8	2072.9	2066.4	2048.9	2053.3
5°	2077.3	2077.3	2075.1	2070.7	2072.9	2081.6	2077.3	2068.5	2059.8	2044.5	2051.1
7.5°	2062.0	2062.0	2059.8	2055.5	2059.8	2068.5	2064.2	2055.5	2048.9	2033.6	2040.2
10°	2040.2	2042.4	2040.2	2033.6	2042.4	2051.1	2048.9	2038.0	2031.4	2018.4	2024.9
12.5°	2014.0	2016.2	2014.0	2011.8	2016.2	2029.3	2024.9	2016.2	2011.8	2000.9	2007.4
15°	1983.4	1985.6	1981.3	1981.3	1985.6	1998.7	1998.7	1990.0	1985.6	1974.7	1987.8
17.5°	1944.2	1946.4	1944.2	1944.2	1948.5	1961.6	1963.8	1959.4	1955.1	1950.7	1963.8
20°	1904.9	1902.7	1902.7	1900.5	1909.3	1928.9	1926.7	1926.7	1922.3	1922.3	1937.6
22.5°	1859.1	1859.1	1856.9	1856.9	1867.8	1885.3	1885.3	1889.6	1885.3	1894.0	1907.1
25°	1806.7	1808.9	1806.7	1811.1	1819.8	1839.4	1841.6	1848.2	1850.3	1859.1	1874.3
27.5°	1752.2	1754.3	1752.2	1756.5	1771.8	1787.1	1798.0	1806.7	1808.9	1822.0	1841.6
30°	1693.2	1693.2	1695.4	1699.8	1717.2	1741.2	1750.0	1760.9	1760.9	1782.7	1802.3
32.5°	1632.1	1632.1	1632.1	1640.9	1660.5	1688.9	1699.8	1712.9	1717.2	1739.1	1760.9
35°	1564.5	1566.7	1566.7	1573.2	1599.4	1627.8	1643.1	1658.3	1667.1	1693.2	1715.1
37.5°	1501.2	1505.6	1499.0	1507.8	1544.9	1568.9	1586.3	1601.6	1616.9	1651.8	1669.2
40°	1429.2	1433.6	1431.4	1448.9	1479.4	1509.9	1529.6	1544.9	1566.7	1601.6	1621.2
42.5°	1352.8	1357.2	1361.6	1381.2	1413.9	1444.5	1468.5	1488.1	1514.3	1544.9	1577.6
45°	1283.0	1283.0	1289.6	1313.6	1348.5	1381.2	1409.6	1431.4	1461.9	1494.7	1527.4
47.5°	1204.5	1206.7	1215.4	1243.7	1280.8	1320.1	1346.3	1374.7	1407.4	1442.3	1479.4
50°	1132.5	1132.5	1145.6	1176.1	1211.0	1254.7	1283.0	1315.8	1350.7	1392.1	1429.2
52.5°	1049.5	1053.9	1073.5	1101.9	1147.7	1187.0	1219.7	1254.7	1296.1	1339.8	1381.2
55°	966.6	975.4	990.6	1029.9	1077.9	1115.0	1154.3	1197.9	1237.2	1285.2	1333.2
57.5°	885.9	892.4	916.4	955.7	1005.9	1051.7	1093.2	1134.6	1182.6	1230.7	1280.8
60°	803.0	811.7	840.1	879.3	933.9	981.9	1029.9	1073.5	1123.7	1173.9	1226.3
62.5°	724.4	731.0	763.7	809.5	864.1	916.4	964.4	1016.8	1071.4	1119.4	1171.7
65°	641.5	652.4	689.5	731.0	794.3	846.6	901.2	957.9	1014.6	1067.0	1117.2
67.5°	565.1	571.7	611.0	659.0	722.2	781.2	837.9	899.0	957.9	1012.5	1062.6
70°	475.7	497.5	536.8	587.0	654.6	715.7	776.8	840.1	903.4	960.1	1008.1
72.5°	401.5	418.9	462.6	517.1	582.6	654.6	717.9	785.5	848.8	907.7	957.9
75°	322.9	340.4	390.6	451.7	519.3	595.7	661.1	731.0	796.4	855.3	907.7
77.5°	246.6	268.4	322.9	386.2	460.4	539.0	606.6	676.4	744.1	807.3	859.7
80°	176.7	200.7	259.7	331.7	403.7	482.2	556.4	626.2	693.9	757.2	811.7
82.5°	113.5	139.6	202.9	274.9	351.3	429.9	506.2	576.1	643.7	707.0	763.7
85°	61.1	89.5	154.9	226.9	303.3	381.9	458.2	532.4	597.9	656.8	717.9
87.5°	17.5	52.4	115.6	187.7	266.2	338.2	412.4	486.6	552.0	615.3	669.9
90°	2.2	30.5	87.3	154.9	231.3	301.1	375.3	445.1	510.6	573.9	628.4
92.5°	2.2	19.6	67.6	128.7	198.6	270.6	344.8	412.4	473.5	536.8	591.3
95°	2.2	15.3	54.6	109.1	174.6	242.2	312.0	377.5	440.8	499.7	554.2
97.5°	2.2	10.9	43.6	93.8	152.7	216.0	283.7	349.1	410.2	466.9	517.1
100°	2.2	8.7	34.9	80.7	133.1	194.2	255.3	318.6	377.5	432.0	484.4
102.5°	2.2	6.5	30.5	67.6	117.8	172.4	231.3	290.2	346.9	399.3	451.7
105°	2.2	6.5	26.2	58.9	104.7	154.9	209.5	266.2	318.6	368.8	416.8
107.5°	2.2	4.4	21.8	50.2	91.6	139.6	189.8	244.4	292.4	340.4	386.2
110°	2.2	4.4	17.5	45.8	80.7	124.4	172.4	222.6	268.4	314.2	357.8



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CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.2	4.4	15.3	39.3	69.8	111.3	154.9	200.7	244.4	290.2	329.5
115°	2.2	4.4	13.1	34.9	65.5	96.0	139.6	181.1	224.7	266.2	303.3
117.5°	2.2	4.4	10.9	28.4	56.7	87.3	122.2	163.7	202.9	242.2	277.1
120°	2.2	4.4	8.7	26.2	50.2	78.6	109.1	146.2	183.3	220.4	257.5
122.5°	2.2	2.2	8.7	21.8	43.6	69.8	100.4	128.7	163.7	198.6	231.3
125°	2.2	2.2	8.7	19.6	37.1	63.3	89.5	115.6	146.2	176.7	205.1
127.5°	2.2	2.2	6.5	15.3	32.7	54.6	78.6	106.9	128.7	157.1	185.5
130°	2.2	2.2	6.5	13.1	28.4	45.8	69.8	93.8	120.0	139.6	163.7
132.5°	2.2	2.2	6.5	10.9	21.8	37.1	58.9	80.7	104.7	126.6	146.2
135°	2.2	2.2	4.4	8.7	17.5	30.5	48.0	67.6	91.6	113.5	133.1
137.5°	2.2	2.2	4.4	8.7	13.1	26.2	37.1	54.6	76.4	96.0	115.6
140°	2.2	2.2	4.4	6.5	10.9	19.6	30.5	43.6	61.1	78.6	100.4
142.5°	2.2	2.2	2.2	6.5	8.7	15.3	24.0	34.9	48.0	63.3	80.7
145°	2.2	2.2	2.2	6.5	8.7	10.9	19.6	28.4	37.1	48.0	63.3
147.5°	2.2	2.2	2.2	4.4	6.5	8.7	15.3	21.8	28.4	37.1	45.8
150°	2.2	2.2	2.2	4.4	6.5	8.7	10.9	15.3	21.8	30.5	37.1
152.5°	2.2	2.2	2.2	4.4	4.4	6.5	8.7	10.9	15.3	21.8	26.2
155°	2.2	2.2	2.2	2.2	4.4	6.5	8.7	8.7	10.9	15.3	19.6
157.5°	2.2	2.2	2.2	2.2	4.4	4.4	6.5	6.5	8.7	8.7	13.1
160°	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.5	6.5	6.5	6.5
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4	6.5	6.5
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°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2053.3	2055.5	2062.0	2062.0	2057.6	2057.6	2055.5	2053.3	2055.5	2059.8	2059.8
5°	2048.9	2051.1	2057.6	2059.8	2055.5	2053.3	2053.3	2051.1	2053.3	2057.6	2057.6
7.5°	2040.2	2042.4	2048.9	2051.1	2046.7	2046.7	2044.5	2042.4	2046.7	2048.9	2048.9
10°	2027.1	2029.3	2038.0	2040.2	2038.0	2035.8	2035.8	2033.6	2035.8	2040.2	2040.2
12.5°	2009.6	2014.0	2024.9	2024.9	2024.9	2022.7	2022.7	2020.5	2022.7	2027.1	2024.9
15°	1990.0	1998.7	2007.4	2011.8	2011.8	2011.8	2009.6	2007.4	2011.8	2014.0	2011.8
17.5°	1968.2	1979.1	1992.2	1996.5	1996.5	1998.7	1996.5	1994.4	1998.7	1998.7	1996.5
20°	1946.4	1957.3	1970.4	1974.7	1979.1	1981.3	1981.3	1979.1	1981.3	1983.4	1981.3
22.5°	1918.0	1931.1	1946.4	1952.9	1957.3	1961.6	1961.6	1961.6	1963.8	1966.0	1961.6
25°	1887.4	1902.7	1920.2	1926.7	1935.4	1937.6	1939.8	1939.8	1942.0	1944.2	1937.6
27.5°	1854.7	1872.2	1889.6	1900.5	1907.1	1911.4	1911.4	1913.6	1915.8	1918.0	1911.4
30°	1815.4	1841.6	1856.9	1865.6	1874.3	1880.9	1883.1	1885.3	1887.4	1889.6	1883.1
32.5°	1780.5	1802.3	1822.0	1832.9	1843.8	1852.5	1854.7	1854.7	1859.1	1859.1	1852.5
35°	1739.1	1765.2	1784.9	1795.8	1808.9	1815.4	1819.8	1819.8	1824.2	1824.2	1817.6
37.5°	1697.6	1723.8	1745.6	1758.7	1774.0	1782.7	1784.9	1784.9	1789.2	1789.2	1780.5
40°	1654.0	1682.3	1706.3	1721.6	1734.7	1745.6	1747.8	1754.3	1754.3	1752.2	1743.4
42.5°	1610.3	1636.5	1662.7	1680.1	1697.6	1708.5	1712.9	1715.1	1715.1	1712.9	1706.3
45°	1562.3	1592.9	1616.9	1638.7	1656.1	1667.1	1673.6	1675.8	1675.8	1671.4	1664.9
47.5°	1516.5	1547.0	1571.0	1595.0	1612.5	1625.6	1632.1	1634.3	1632.1	1630.0	1623.4
50°	1468.5	1503.4	1527.4	1551.4	1568.9	1579.8	1590.7	1592.9	1590.7	1588.5	1575.4
52.5°	1418.3	1455.4	1481.6	1505.6	1525.2	1538.3	1547.0	1549.2	1549.2	1544.9	1536.1
55°	1368.1	1400.8	1433.6	1459.8	1481.6	1494.7	1505.6	1509.9	1505.6	1501.2	1490.3
57.5°	1322.3	1352.8	1385.6	1413.9	1435.8	1453.2	1461.9	1466.3	1461.9	1455.4	1444.5
60°	1267.7	1300.5	1337.6	1363.8	1387.8	1405.2	1409.6	1418.3	1413.9	1407.4	1396.5
62.5°	1215.4	1254.7	1287.4	1320.1	1339.8	1359.4	1368.1	1372.5	1368.1	1361.6	1350.7
65°	1160.8	1204.5	1237.2	1269.9	1291.7	1311.4	1322.3	1324.5	1320.1	1313.6	1302.7
67.5°	1110.6	1152.1	1187.0	1221.9	1241.6	1261.2	1272.1	1276.5	1272.1	1263.4	1252.5
70°	1060.5	1101.9	1143.4	1169.6	1193.6	1215.4	1221.9	1228.5	1224.1	1215.4	1202.3
72.5°	1010.3	1053.9	1095.4	1121.6	1147.7	1167.4	1176.1	1182.6	1178.3	1169.6	1154.3
75°	957.9	1003.7	1045.2	1073.5	1099.7	1119.4	1128.1	1134.6	1130.3	1121.6	1104.1
77.5°	909.9	955.7	995.0	1025.5	1051.7	1069.2	1084.5	1086.6	1082.3	1073.5	1056.1
80°	859.7	905.5	947.0	977.5	1003.7	1021.2	1032.1	1038.6	1034.3	1025.5	1008.1
82.5°	816.1	857.5	899.0	929.5	955.7	977.5	986.3	992.8	990.6	977.5	964.4
85°	768.1	816.1	848.8	881.5	907.7	929.5	936.1	944.8	942.6	931.7	914.3
87.5°	720.1	768.1	807.3	840.1	864.1	881.5	892.4	896.8	894.6	883.7	864.1
90°	680.8	724.4	763.7	798.6	818.3	837.9	848.8	851.0	851.0	837.9	822.6
92.5°	643.7	685.2	724.4	757.2	781.2	798.6	807.3	811.7	809.5	798.6	781.2
95°	602.2	648.1	685.2	717.9	741.9	759.3	768.1	772.4	770.2	759.3	741.9
97.5°	567.3	608.8	645.9	676.4	700.4	717.9	726.6	731.0	731.0	720.1	702.6
100°	532.4	573.9	608.8	639.3	661.1	678.6	687.3	689.5	687.3	678.6	661.1
102.5°	497.5	536.8	571.7	600.1	624.1	639.3	648.1	650.2	650.2	639.3	621.9
105°	462.6	501.9	534.6	565.1	584.8	600.1	606.6	613.1	611.0	602.2	584.8
107.5°	429.9	469.1	499.7	528.0	547.7	563.0	569.5	576.1	573.9	565.1	547.7
110°	399.3	436.4	464.8	493.1	510.6	525.9	536.8	539.0	534.6	525.9	510.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	370.9	403.7	432.0	458.2	477.9	488.8	497.5	501.9	497.5	488.8	477.9
115°	340.4	373.1	401.5	425.5	442.9	456.0	462.6	466.9	462.6	453.9	442.9
117.5°	312.0	342.6	370.9	394.9	410.2	421.1	427.7	432.0	427.7	421.1	410.2
120°	288.0	314.2	340.4	362.2	379.7	388.4	394.9	399.3	397.1	388.4	377.5
122.5°	259.7	288.0	312.0	333.8	349.1	357.8	362.2	366.6	364.4	357.8	346.9
125°	235.7	259.7	283.7	303.3	318.6	327.3	331.7	336.0	333.8	327.3	314.2
127.5°	209.5	235.7	255.3	274.9	285.8	298.9	301.1	305.5	303.3	296.8	285.8
130°	189.8	209.5	229.1	246.6	259.7	268.4	272.8	274.9	270.6	266.2	255.3
132.5°	165.8	187.7	205.1	220.4	229.1	237.8	242.2	244.4	244.4	237.8	229.1
135°	148.4	163.7	178.9	194.2	202.9	211.7	216.0	218.2	216.0	211.7	202.9
137.5°	133.1	146.2	157.1	170.2	181.1	185.5	189.8	189.8	187.7	185.5	178.9
140°	115.6	130.9	141.8	150.6	159.3	161.5	165.8	165.8	163.7	161.5	157.1
142.5°	98.2	111.3	122.2	133.1	139.6	144.0	146.2	148.4	146.2	144.0	137.5
145°	78.6	93.8	104.7	111.3	120.0	122.2	124.4	126.6	124.4	122.2	115.6
147.5°	61.1	74.2	85.1	93.8	100.4	102.6	104.7	106.9	104.7	100.4	98.2
150°	43.6	54.6	67.6	76.4	80.7	85.1	85.1	85.1	87.3	82.9	78.6
152.5°	34.9	39.3	48.0	56.7	63.3	65.5	67.6	67.6	65.5	65.5	61.1
155°	24.0	28.4	34.9	41.5	48.0	50.2	52.4	52.4	50.2	50.2	48.0
157.5°	15.3	19.6	24.0	28.4	34.9	37.1	39.3	39.3	39.3	37.1	34.9
160°	8.7	10.9	13.1	17.5	21.8	24.0	26.2	26.2	26.2	26.2	24.0
162.5°	6.5	6.5	6.5	8.7	10.9	13.1	15.3	15.3	15.3	15.3	13.1
165°	4.4	4.4	4.4	4.4	4.4	6.5	8.7	8.7	8.7	8.7	8.7
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-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2057.6	2057.6	2059.8	2055.5	2042.4	2044.5	2044.5	2053.3	2057.6	2059.8	2070.7
5°	2053.3	2053.3	2057.6	2051.1	2040.2	2040.2	2040.2	2048.9	2051.1	2055.5	2064.2
7.5°	2046.7	2046.7	2048.9	2042.4	2029.3	2029.3	2027.1	2035.8	2040.2	2042.4	2051.1
10°	2035.8	2035.8	2038.0	2031.4	2016.2	2016.2	2014.0	2020.5	2022.7	2027.1	2033.6
12.5°	2020.5	2020.5	2020.5	2014.0	1998.7	1996.5	1994.4	2000.9	2000.9	2003.1	2009.6
15°	2007.4	2003.1	2003.1	1996.5	1981.3	1976.9	1972.5	1974.7	1979.1	1976.9	1981.3
17.5°	1992.2	1987.8	1983.4	1976.9	1957.3	1950.7	1946.4	1948.5	1946.4	1944.2	1948.5
20°	1974.7	1968.2	1966.0	1955.1	1935.4	1924.5	1915.8	1911.4	1913.6	1907.1	1909.3
22.5°	1955.1	1946.4	1942.0	1928.9	1909.3	1896.2	1885.3	1876.5	1874.3	1865.6	1867.8
25°	1931.1	1920.2	1913.6	1902.7	1880.9	1865.6	1852.5	1839.4	1832.9	1822.0	1819.8
27.5°	1902.7	1891.8	1883.1	1872.2	1850.3	1830.7	1815.4	1798.0	1789.2	1776.2	1769.6
30°	1874.3	1861.3	1848.2	1839.4	1815.4	1793.6	1769.6	1754.3	1741.2	1726.0	1715.1
32.5°	1839.4	1826.3	1813.2	1800.2	1778.3	1752.2	1732.5	1708.5	1693.2	1675.8	1662.7
35°	1804.5	1787.1	1774.0	1756.5	1736.9	1706.3	1682.3	1658.3	1638.7	1619.1	1603.8
37.5°	1765.2	1752.2	1732.5	1717.2	1693.2	1662.7	1636.5	1606.0	1588.5	1562.3	1542.7
40°	1728.2	1712.9	1693.2	1673.6	1649.6	1614.7	1586.3	1551.4	1531.8	1501.2	1481.6
42.5°	1691.1	1669.2	1649.6	1627.8	1601.6	1568.9	1534.0	1499.0	1472.9	1444.5	1416.1
45°	1649.6	1625.6	1601.6	1577.6	1551.4	1518.7	1481.6	1444.5	1411.8	1385.6	1350.7
47.5°	1606.0	1582.0	1553.6	1527.4	1499.0	1466.3	1427.0	1387.8	1352.8	1322.3	1285.2
50°	1562.3	1538.3	1507.8	1479.4	1446.7	1413.9	1372.5	1326.7	1289.6	1250.3	1217.6
52.5°	1516.5	1492.5	1464.1	1427.0	1392.1	1359.4	1315.8	1267.7	1226.3	1193.6	1152.1
55°	1470.7	1446.7	1413.9	1376.8	1341.9	1300.5	1259.0	1211.0	1165.2	1125.9	1084.5
57.5°	1422.7	1400.8	1363.8	1333.2	1289.6	1245.9	1202.3	1156.5	1106.3	1060.5	1012.5
60°	1374.7	1350.7	1315.8	1278.7	1235.0	1191.4	1145.6	1095.4	1043.0	992.8	949.2
62.5°	1331.0	1300.5	1267.7	1228.5	1182.6	1141.2	1088.8	1034.3	981.9	929.5	877.2
65°	1280.8	1248.1	1217.6	1178.3	1130.3	1082.3	1029.9	975.4	918.6	861.9	809.5
67.5°	1230.7	1197.9	1165.2	1125.9	1075.7	1025.5	971.0	916.4	853.2	798.6	737.5
70°	1180.5	1154.3	1112.8	1071.4	1025.5	971.0	916.4	857.5	792.1	733.2	669.9
72.5°	1130.3	1104.1	1062.6	1019.0	975.4	918.6	859.7	800.8	739.7	672.1	604.4
75°	1082.3	1049.5	1012.5	971.0	925.2	866.3	807.3	746.2	674.2	611.0	541.1
77.5°	1036.5	1005.9	968.8	923.0	872.8	816.1	755.0	691.7	619.7	552.0	475.7
80°	986.3	955.7	918.6	872.8	822.6	768.1	702.6	637.1	567.3	493.1	414.6
82.5°	938.3	909.9	868.4	827.0	772.4	717.9	652.4	587.0	512.8	440.8	364.4
85°	888.1	859.7	820.4	776.8	724.4	665.5	604.4	539.0	464.8	390.6	314.2
87.5°	844.4	811.7	772.4	728.8	676.4	619.7	560.8	491.0	418.9	346.9	268.4
90°	798.6	768.1	728.8	685.2	632.8	576.1	515.0	449.5	379.7	305.5	231.3
92.5°	759.3	726.6	689.5	645.9	593.5	539.0	477.9	412.4	344.8	272.8	200.7
95°	720.1	687.3	652.4	608.8	556.4	501.9	440.8	377.5	312.0	242.2	174.6
97.5°	676.4	648.1	613.1	571.7	519.3	466.9	408.0	346.9	283.7	216.0	152.7
100°	641.5	608.8	576.1	532.4	484.4	434.2	375.3	316.4	255.3	192.0	133.1
102.5°	602.2	571.7	539.0	497.5	449.5	399.3	344.8	288.0	231.3	172.4	115.6
105°	565.1	536.8	501.9	462.6	416.8	368.8	316.4	264.0	209.5	152.7	102.6
107.5°	528.0	499.7	466.9	429.9	386.2	338.2	290.2	237.8	187.7	137.5	91.6
110°	491.0	464.8	434.2	397.1	355.7	312.0	266.2	218.2	168.0	122.2	80.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	458.2	432.0	401.5	366.6	327.3	285.8	242.2	196.4	150.6	109.1	69.8
115°	425.5	401.5	370.9	340.4	301.1	261.8	220.4	176.7	135.3	98.2	61.1
117.5°	392.8	368.8	340.4	309.8	274.9	237.8	198.6	157.1	122.2	87.3	54.6
120°	360.0	338.2	312.0	283.7	253.1	216.0	176.7	141.8	109.1	76.4	48.0
122.5°	329.5	309.8	285.8	259.7	226.9	192.0	159.3	128.7	98.2	67.6	39.3
125°	301.1	281.5	259.7	233.5	202.9	172.4	144.0	115.6	85.1	58.9	32.7
127.5°	272.8	253.1	231.3	207.3	183.3	154.9	128.7	102.6	76.4	52.4	28.4
130°	244.4	226.9	207.3	187.7	163.7	137.5	115.6	89.5	65.5	41.5	24.0
132.5°	216.0	202.9	185.5	165.8	144.0	124.4	100.4	78.6	56.7	37.1	21.8
135°	192.0	178.9	163.7	146.2	128.7	109.1	87.3	67.6	48.0	30.5	17.5
137.5°	170.2	159.3	144.0	128.7	113.5	93.8	76.4	56.7	39.3	26.2	13.1
140°	150.6	139.6	126.6	111.3	98.2	80.7	63.3	45.8	34.9	21.8	10.9
142.5°	130.9	120.0	109.1	96.0	82.9	67.6	52.4	39.3	28.4	17.5	10.9
145°	111.3	102.6	91.6	80.7	67.6	54.6	43.6	32.7	21.8	13.1	8.7
147.5°	91.6	85.1	74.2	65.5	54.6	43.6	34.9	26.2	17.5	10.9	6.5
150°	74.2	67.6	58.9	50.2	43.6	34.9	28.4	19.6	13.1	10.9	6.5
152.5°	56.7	52.4	45.8	41.5	34.9	26.2	19.6	15.3	10.9	8.7	4.4
155°	45.8	41.5	37.1	30.5	26.2	19.6	15.3	10.9	8.7	6.5	4.4
157.5°	32.7	30.5	26.2	21.8	17.5	13.1	10.9	10.9	6.5	4.4	2.2
160°	21.8	19.6	17.5	13.1	10.9	10.9	8.7	6.5	4.4	4.4	2.2
162.5°	13.1	10.9	10.9	10.9	8.7	8.7	6.5	4.4	4.4	2.2	2.2
165°	8.7	8.7	8.7	6.5	6.5	6.5	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-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2070.7	2064.2	2072.9	2088.2	2090.4	2088.2	2083.8	2090.4	2099.1	2096.9	2081.6
5°	2066.4	2057.6	2066.4	2081.6	2081.6	2079.5	2077.3	2083.8	2092.5	2090.4	2077.3
7.5°	2053.3	2044.5	2053.3	2066.4	2068.5	2064.2	2064.2	2070.7	2079.5	2077.3	2066.4
10°	2035.8	2027.1	2031.4	2046.7	2051.1	2046.7	2046.7	2053.3	2064.2	2062.0	2048.9
12.5°	2009.6	2003.1	2007.4	2020.5	2024.9	2022.7	2020.5	2029.3	2040.2	2040.2	2027.1
15°	1981.3	1972.5	1976.9	1992.2	1994.4	1990.0	1992.2	1998.7	2011.8	2011.8	2000.9
17.5°	1948.5	1937.6	1944.2	1955.1	1957.3	1957.3	1957.3	1966.0	1981.3	1979.1	1970.4
20°	1911.4	1896.2	1900.5	1911.4	1915.8	1915.8	1915.8	1931.1	1942.0	1942.0	1933.3
22.5°	1867.8	1856.9	1856.9	1867.8	1874.3	1872.2	1872.2	1885.3	1900.5	1898.3	1898.3
25°	1817.6	1808.9	1804.5	1817.6	1819.8	1822.0	1826.3	1839.4	1856.9	1856.9	1859.1
27.5°	1765.2	1756.5	1754.3	1765.2	1767.4	1769.6	1774.0	1789.2	1806.7	1808.9	1813.2
30°	1715.1	1702.0	1697.6	1706.3	1710.7	1712.9	1712.9	1736.9	1752.2	1758.7	1767.4
32.5°	1656.1	1643.1	1632.1	1647.4	1649.6	1654.0	1656.1	1680.1	1697.6	1708.5	1721.6
35°	1597.2	1575.4	1571.0	1582.0	1586.3	1588.5	1592.9	1619.1	1643.1	1651.8	1669.2
37.5°	1531.8	1516.5	1503.4	1514.3	1518.7	1520.9	1534.0	1558.0	1582.0	1595.0	1612.5
40°	1470.7	1451.0	1440.1	1446.7	1451.0	1453.2	1468.5	1494.7	1523.0	1538.3	1560.1
42.5°	1403.0	1376.8	1368.1	1374.7	1376.8	1383.4	1396.5	1431.4	1459.8	1481.6	1499.0
45°	1335.4	1315.8	1296.1	1302.7	1304.8	1309.2	1328.8	1365.9	1396.5	1422.7	1442.3
47.5°	1265.6	1241.6	1221.9	1226.3	1235.0	1237.2	1259.0	1302.7	1331.0	1359.4	1385.6
50°	1195.7	1163.0	1147.7	1147.7	1152.1	1163.0	1191.4	1235.0	1265.6	1298.3	1326.7
52.5°	1123.7	1093.2	1075.7	1077.9	1082.3	1095.4	1121.6	1165.2	1200.1	1235.0	1269.9
55°	1051.7	1019.0	1001.5	997.2	1001.5	1019.0	1049.5	1095.4	1130.3	1171.7	1208.8
57.5°	979.7	940.4	925.2	918.6	923.0	944.8	975.4	1023.4	1067.0	1106.3	1149.9
60°	901.2	870.6	844.4	829.2	840.1	868.4	901.2	951.4	997.2	1040.8	1088.8
62.5°	833.5	794.3	765.9	750.6	761.5	785.5	831.3	879.3	929.5	979.7	1027.7
65°	757.2	717.9	685.2	669.9	680.8	709.2	755.0	807.3	861.9	912.1	968.8
67.5°	683.0	641.5	602.2	587.0	600.1	630.6	680.8	739.7	798.6	851.0	912.1
70°	611.0	565.1	523.7	512.8	521.5	563.0	611.0	669.9	731.0	792.1	855.3
72.5°	545.5	488.8	445.1	432.0	442.9	488.8	543.3	604.4	669.9	735.3	803.0
75°	469.1	416.8	368.8	353.5	366.6	408.0	475.7	541.1	611.0	680.8	744.1
77.5°	408.0	346.9	296.8	272.8	294.6	346.9	412.4	482.2	554.2	626.2	698.2
80°	344.8	281.5	226.9	200.7	224.7	281.5	346.9	423.3	504.0	576.1	641.5
82.5°	288.0	220.4	163.7	135.3	161.5	224.7	296.8	373.1	451.7	523.7	600.1
85°	235.7	165.8	106.9	76.4	113.5	170.2	246.6	325.1	405.9	480.0	554.2
87.5°	192.0	124.4	65.5	32.7	69.8	133.1	205.1	283.7	364.4	438.6	508.4
90°	157.1	89.5	34.9	4.4	41.5	100.4	170.2	246.6	322.9	399.3	469.1
92.5°	128.7	67.6	19.6	2.2	26.2	80.7	146.2	218.2	292.4	366.6	434.2
95°	106.9	52.4	13.1	2.2	19.6	63.3	124.4	194.2	264.0	336.0	403.7
97.5°	91.6	43.6	10.9	2.2	15.3	54.6	106.9	172.4	240.0	307.7	373.1
100°	78.6	34.9	8.7	2.2	13.1	45.8	93.8	152.7	216.0	281.5	344.8
102.5°	67.6	28.4	6.5	2.2	10.9	39.3	82.9	137.5	194.2	257.5	318.6
105°	58.9	24.0	6.5	2.2	8.7	34.9	74.2	122.2	178.9	235.7	294.6
107.5°	50.2	19.6	4.4	2.2	6.5	28.4	65.5	111.3	161.5	216.0	270.6
110°	43.6	17.5	4.4	2.2	6.5	26.2	56.7	100.4	146.2	196.4	248.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	37.1	13.1	4.4	2.2	4.4	21.8	50.2	89.5	133.1	178.9	229.1
115°	32.7	10.9	2.2	2.2	4.4	19.6	45.8	80.7	120.0	163.7	209.5
117.5°	26.2	8.7	2.2	2.2	2.2	15.3	39.3	72.0	109.1	150.6	192.0
120°	21.8	8.7	2.2	2.2	2.2	13.1	34.9	63.3	98.2	135.3	174.6
122.5°	19.6	6.5	2.2	2.2	2.2	10.9	30.5	56.7	87.3	122.2	159.3
125°	17.5	6.5	2.2	2.2	2.2	8.7	26.2	50.2	78.6	109.1	144.0
127.5°	13.1	6.5	2.2	2.2	2.2	6.5	24.0	43.6	69.8	98.2	128.7
130°	10.9	4.4	2.2	2.2	2.2	6.5	19.6	39.3	61.1	87.3	115.6
132.5°	8.7	4.4	2.2	2.2	2.2	4.4	15.3	30.5	52.4	76.4	102.6
135°	8.7	4.4	2.2	2.2	2.2	4.4	10.9	26.2	43.6	65.5	87.3
137.5°	8.7	2.2	2.2	2.2	2.2	4.4	8.7	19.6	34.9	52.4	72.0
140°	6.5	2.2	2.2	2.2	2.2	2.2	6.5	15.3	28.4	43.6	61.1
142.5°	6.5	2.2	2.2	2.2	2.2	2.2	6.5	10.9	21.8	34.9	48.0
145°	4.4	2.2	2.2	2.2	2.2	2.2	4.4	8.7	17.5	26.2	39.3
147.5°	4.4	2.2	2.2	2.2	2.2	2.2	4.4	6.5	13.1	21.8	30.5
150°	4.4	2.2	2.2	2.2	2.2	2.2	4.4	6.5	8.7	15.3	24.0
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.5	10.9	15.3
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.5	8.7	10.9
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.5	8.7
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.5
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-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2075.1	2059.8	2064.2	2062.0	2066.4	2072.9	2072.9	2070.7	2070.7	2066.4	2062.0
5°	2070.7	2055.5	2062.0	2059.8	2064.2	2070.7	2070.7	2068.5	2068.5	2062.0	2059.8
7.5°	2057.6	2046.7	2051.1	2051.1	2055.5	2062.0	2062.0	2059.8	2059.8	2053.3	2051.1
10°	2044.5	2031.4	2038.0	2038.0	2042.4	2051.1	2051.1	2048.9	2048.9	2042.4	2040.2
12.5°	2022.7	2009.6	2020.5	2022.7	2027.1	2035.8	2033.6	2033.6	2033.6	2027.1	2024.9
15°	1996.5	1987.8	1998.7	2000.9	2007.4	2018.4	2018.4	2018.4	2018.4	2011.8	2009.6
17.5°	1968.2	1961.6	1972.5	1976.9	1985.6	1996.5	1996.5	1998.7	2000.9	1996.5	1994.4
20°	1935.4	1931.1	1942.0	1950.7	1963.8	1974.7	1979.1	1981.3	1985.6	1981.3	1979.1
22.5°	1898.3	1898.3	1913.6	1922.3	1937.6	1948.5	1955.1	1961.6	1966.0	1961.6	1959.4
25°	1856.9	1863.4	1878.7	1894.0	1911.4	1922.3	1928.9	1937.6	1942.0	1939.8	1937.6
27.5°	1817.6	1826.3	1846.0	1861.3	1876.5	1894.0	1900.5	1911.4	1915.8	1915.8	1913.6
30°	1771.8	1784.9	1806.7	1824.2	1843.8	1861.3	1870.0	1880.9	1887.4	1883.1	1885.3
32.5°	1728.2	1750.0	1767.4	1787.1	1808.9	1826.3	1837.3	1850.3	1856.9	1854.7	1856.9
35°	1680.1	1702.0	1726.0	1745.6	1771.8	1789.2	1804.5	1815.4	1824.2	1822.0	1822.0
37.5°	1627.8	1656.1	1680.1	1706.3	1730.3	1750.0	1765.2	1778.3	1787.1	1787.1	1787.1
40°	1577.6	1608.1	1632.1	1662.7	1693.2	1710.7	1728.2	1741.2	1750.0	1752.2	1754.3
42.5°	1523.0	1555.8	1584.1	1616.9	1647.4	1669.2	1688.9	1704.1	1712.9	1717.2	1715.1
45°	1472.9	1503.4	1536.1	1573.2	1601.6	1623.4	1647.4	1664.9	1673.6	1675.8	1678.0
47.5°	1416.1	1451.0	1488.1	1525.2	1553.6	1582.0	1603.8	1621.2	1630.0	1636.5	1636.5
50°	1361.6	1398.7	1440.1	1479.4	1509.9	1538.3	1560.1	1579.8	1590.7	1595.0	1597.2
52.5°	1311.4	1346.3	1389.9	1429.2	1459.8	1488.1	1516.5	1538.3	1549.2	1553.6	1553.6
55°	1250.3	1293.9	1341.9	1379.0	1411.8	1444.5	1472.9	1494.7	1505.6	1512.1	1516.5
57.5°	1193.6	1239.4	1289.6	1328.8	1368.1	1398.7	1424.9	1453.2	1461.9	1470.7	1472.9
60°	1139.0	1184.8	1232.8	1276.5	1315.8	1348.5	1379.0	1403.0	1418.3	1422.7	1427.0
62.5°	1082.3	1130.3	1180.5	1224.1	1265.6	1304.8	1333.2	1355.0	1372.5	1379.0	1383.4
65°	1027.7	1077.9	1128.1	1173.9	1217.6	1256.8	1285.2	1307.0	1324.5	1335.4	1337.6
67.5°	968.8	1023.4	1075.7	1123.7	1167.4	1208.8	1237.2	1259.0	1276.5	1289.6	1291.7
70°	914.3	971.0	1023.4	1075.7	1119.4	1160.8	1191.4	1213.2	1232.8	1241.6	1245.9
72.5°	861.9	920.8	975.4	1027.7	1071.4	1112.8	1145.6	1167.4	1187.0	1197.9	1200.1
75°	811.7	870.6	929.5	979.7	1025.5	1067.0	1099.7	1123.7	1141.2	1152.1	1156.5
77.5°	761.5	822.6	881.5	931.7	979.7	1021.2	1049.5	1077.9	1095.4	1108.5	1108.5
80°	711.3	774.6	835.7	885.9	933.9	971.0	1003.7	1032.1	1049.5	1062.6	1062.6
82.5°	667.7	728.8	787.7	837.9	885.9	927.4	960.1	986.3	1005.9	1014.6	1016.8
85°	617.5	685.2	739.7	794.3	840.1	879.3	912.1	940.4	957.9	966.6	971.0
87.5°	576.1	641.5	700.4	748.4	794.3	833.5	870.6	894.6	912.1	923.0	927.4
90°	536.8	600.1	659.0	707.0	755.0	792.1	827.0	851.0	870.6	879.3	883.7
92.5°	501.9	565.1	621.9	669.9	715.7	757.2	789.9	813.9	831.3	840.1	846.6
95°	469.1	530.2	584.8	637.1	680.8	717.9	752.8	776.8	796.4	803.0	809.5
97.5°	436.4	495.3	549.9	600.1	645.9	680.8	713.5	737.5	752.8	763.7	770.2
100°	408.0	464.8	517.1	565.1	608.8	641.5	676.4	698.2	713.5	722.2	731.0
102.5°	377.5	434.2	484.4	530.2	576.1	606.6	639.3	661.1	674.2	689.5	689.5
105°	351.3	403.7	453.9	497.5	536.8	573.9	602.2	624.1	639.3	650.2	650.2
107.5°	322.9	375.3	423.3	469.1	506.2	541.1	567.3	587.0	604.4	611.0	617.5
110°	301.1	346.9	394.9	438.6	473.5	506.2	532.4	554.2	569.5	576.1	580.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.9	322.9	366.6	408.0	442.9	473.5	499.7	517.1	532.4	541.1	543.3
115°	253.1	298.9	338.2	377.5	414.6	440.8	464.8	482.2	497.5	504.0	508.4
117.5°	233.5	274.9	314.2	346.9	381.9	410.2	434.2	449.5	462.6	471.3	475.7
120°	213.8	253.1	288.0	320.8	353.5	379.7	401.5	416.8	432.0	438.6	438.6
122.5°	194.2	231.3	264.0	294.6	325.1	349.1	373.1	386.2	399.3	405.9	405.9
125°	176.7	211.7	242.2	270.6	298.9	320.8	340.4	355.7	368.8	373.1	373.1
127.5°	159.3	192.0	220.4	246.6	270.6	292.4	312.0	327.3	338.2	342.6	342.6
130°	144.0	172.4	198.6	224.7	248.7	266.2	285.8	298.9	305.5	312.0	314.2
132.5°	128.7	154.9	178.9	200.7	224.7	242.2	257.5	270.6	277.1	283.7	285.8
135°	113.5	137.5	159.3	181.1	200.7	218.2	231.3	242.2	250.9	255.3	257.5
137.5°	96.0	122.2	141.8	159.3	181.1	194.2	209.5	216.0	224.7	229.1	229.1
140°	80.7	100.4	122.2	139.6	157.1	170.2	183.3	194.2	200.7	202.9	202.9
142.5°	65.5	82.9	100.4	122.2	137.5	148.4	161.5	170.2	174.6	176.7	178.9
145°	52.4	65.5	80.7	100.4	117.8	130.9	137.5	146.2	150.6	152.7	154.9
147.5°	39.3	52.4	65.5	78.6	96.0	109.1	115.6	124.4	128.7	130.9	130.9
150°	30.5	39.3	48.0	61.1	74.2	89.5	98.2	104.7	106.9	109.1	109.1
152.5°	21.8	30.5	37.1	45.8	54.6	67.6	80.7	85.1	87.3	89.5	89.5
155°	15.3	21.8	26.2	32.7	39.3	50.2	61.1	67.6	69.8	72.0	72.0
157.5°	10.9	15.3	17.5	24.0	28.4	32.7	41.5	52.4	54.6	54.6	54.6
160°	6.5	8.7	10.9	15.3	17.5	21.8	26.2	32.7	39.3	39.3	39.3
162.5°	4.4	6.5	6.5	8.7	8.7	13.1	15.3	17.5	24.0	26.2	26.2
165°	2.2	4.4	4.4	4.4	4.4	4.4	6.5	6.5	10.9	13.1	13.1
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-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2064.2	2068.5	2066.4	2066.4	2066.4	2070.7	2066.4	2046.7	2051.1	2055.5	2059.8
5°	2062.0	2064.2	2064.2	2062.0	2062.0	2066.4	2062.0	2042.4	2046.7	2051.1	2053.3
7.5°	2053.3	2055.5	2055.5	2055.5	2053.3	2057.6	2051.1	2033.6	2033.6	2038.0	2040.2
10°	2042.4	2046.7	2044.5	2042.4	2042.4	2042.4	2038.0	2018.4	2018.4	2020.5	2022.7
12.5°	2029.3	2029.3	2029.3	2027.1	2024.9	2024.9	2020.5	2000.9	1998.7	2003.1	2000.9
15°	2011.8	2016.2	2011.8	2009.6	2005.3	2005.3	1998.7	1979.1	1974.7	1976.9	1974.7
17.5°	1996.5	1998.7	1994.4	1990.0	1985.6	1983.4	1976.9	1955.1	1948.5	1950.7	1946.4
20°	1981.3	1981.3	1976.9	1972.5	1966.0	1959.4	1950.7	1928.9	1918.0	1918.0	1909.3
22.5°	1961.6	1961.6	1957.3	1950.7	1944.2	1935.4	1926.7	1904.9	1887.4	1883.1	1876.5
25°	1939.8	1937.6	1935.4	1928.9	1915.8	1907.1	1898.3	1874.3	1854.7	1846.0	1835.1
27.5°	1913.6	1913.6	1907.1	1900.5	1887.4	1876.5	1865.6	1843.8	1817.6	1806.7	1791.4
30°	1885.3	1885.3	1878.7	1870.0	1856.9	1843.8	1830.7	1804.5	1778.3	1763.1	1745.6
32.5°	1856.9	1854.7	1848.2	1839.4	1826.3	1806.7	1795.8	1769.6	1739.1	1721.6	1697.6
35°	1822.0	1819.8	1813.2	1802.3	1784.9	1769.6	1752.2	1728.2	1693.2	1671.4	1645.2
37.5°	1787.1	1784.9	1780.5	1765.2	1747.8	1730.3	1708.5	1684.5	1651.8	1623.4	1597.2
40°	1752.2	1750.0	1741.2	1730.3	1708.5	1686.7	1664.9	1640.9	1606.0	1573.2	1544.9
42.5°	1715.1	1712.9	1702.0	1688.9	1664.9	1643.1	1616.9	1590.7	1555.8	1516.5	1488.1
45°	1678.0	1673.6	1662.7	1647.4	1621.2	1597.2	1571.0	1540.5	1505.6	1468.5	1431.4
47.5°	1638.7	1632.1	1621.2	1599.4	1577.6	1551.4	1520.9	1488.1	1453.2	1411.8	1372.5
50°	1595.0	1590.7	1577.6	1558.0	1531.8	1505.6	1470.7	1437.9	1396.5	1357.2	1309.2
52.5°	1553.6	1544.9	1534.0	1512.1	1485.9	1457.6	1420.5	1381.2	1339.8	1302.7	1252.5
55°	1509.9	1505.6	1490.3	1472.9	1440.1	1407.4	1372.5	1331.0	1285.2	1241.6	1193.6
57.5°	1468.5	1459.8	1446.7	1422.7	1394.3	1361.6	1324.5	1280.8	1230.7	1184.8	1132.5
60°	1427.0	1413.9	1398.7	1376.8	1346.3	1311.4	1272.1	1226.3	1176.1	1125.9	1071.4
62.5°	1381.2	1370.3	1352.8	1331.0	1300.5	1263.4	1221.9	1173.9	1125.9	1073.5	1014.6
65°	1335.4	1324.5	1307.0	1285.2	1254.7	1213.2	1169.6	1121.6	1067.0	1016.8	953.5
67.5°	1289.6	1278.7	1259.0	1235.0	1204.5	1165.2	1119.4	1069.2	1014.6	960.1	894.6
70°	1243.7	1230.7	1213.2	1187.0	1156.5	1115.0	1069.2	1016.8	962.3	903.4	837.9
72.5°	1197.9	1187.0	1165.2	1141.2	1108.5	1067.0	1021.2	968.8	912.1	851.0	785.5
75°	1152.1	1139.0	1123.7	1095.4	1060.5	1021.2	973.2	920.8	859.7	800.8	733.2
77.5°	1106.3	1095.4	1075.7	1047.4	1014.6	973.2	925.2	872.8	811.7	750.6	678.6
80°	1060.5	1047.4	1032.1	1005.9	968.8	927.4	877.2	824.8	763.7	700.4	628.4
82.5°	1014.6	1001.5	984.1	957.9	923.0	881.5	833.5	776.8	715.7	650.2	582.6
85°	968.8	957.9	938.3	912.1	875.0	833.5	785.5	735.3	669.9	604.4	536.8
87.5°	923.0	912.1	892.4	866.3	831.3	789.9	741.9	689.5	626.2	565.1	491.0
90°	879.3	870.6	851.0	824.8	789.9	748.4	704.8	648.1	587.0	525.9	456.0
92.5°	840.1	831.3	813.9	787.7	757.2	711.3	667.7	613.1	552.0	488.8	421.1
95°	805.2	794.3	776.8	752.8	715.7	676.4	632.8	578.2	519.3	456.0	390.6
97.5°	765.9	755.0	737.5	711.3	680.8	639.3	595.7	543.3	484.4	425.5	360.0
100°	726.6	715.7	696.1	674.2	643.7	602.2	560.8	508.4	453.9	397.1	333.8
102.5°	687.3	676.4	659.0	637.1	606.6	569.5	528.0	477.9	423.3	366.6	307.7
105°	650.2	639.3	621.9	600.1	571.7	534.6	491.0	447.3	394.9	340.4	283.7
107.5°	613.1	602.2	587.0	565.1	536.8	501.9	460.4	414.6	366.6	314.2	259.7
110°	576.1	567.3	549.9	530.2	501.9	466.9	429.9	386.2	338.2	290.2	237.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	541.1	532.4	515.0	493.1	469.1	436.4	399.3	357.8	312.0	266.2	216.0
115°	506.2	495.3	480.0	460.4	436.4	405.9	370.9	333.8	288.0	244.4	198.6
117.5°	471.3	462.6	447.3	427.7	405.9	375.3	342.6	307.7	264.0	222.6	181.1
120°	436.4	429.9	414.6	397.1	375.3	346.9	316.4	281.5	242.2	202.9	163.7
122.5°	403.7	397.1	381.9	366.6	344.8	318.6	290.2	257.5	222.6	185.5	150.6
125°	373.1	364.4	351.3	336.0	316.4	292.4	264.0	233.5	200.7	168.0	135.3
127.5°	340.4	333.8	325.1	307.7	288.0	266.2	240.0	213.8	183.3	152.7	122.2
130°	314.2	305.5	294.6	281.5	264.0	242.2	218.2	192.0	165.8	137.5	106.9
132.5°	283.7	274.9	266.2	253.1	237.8	218.2	196.4	172.4	148.4	122.2	96.0
135°	255.3	248.7	240.0	226.9	211.7	196.4	174.6	152.7	130.9	106.9	85.1
137.5°	229.1	222.6	213.8	205.1	189.8	174.6	154.9	135.3	115.6	93.8	74.2
140°	202.9	198.6	189.8	181.1	168.0	152.7	135.3	117.8	100.4	80.7	63.3
142.5°	176.7	172.4	165.8	157.1	146.2	133.1	117.8	102.6	85.1	69.8	54.6
145°	152.7	150.6	144.0	135.3	126.6	113.5	100.4	87.3	72.0	58.9	43.6
147.5°	128.7	126.6	122.2	115.6	106.9	96.0	85.1	72.0	61.1	48.0	34.9
150°	106.9	104.7	102.6	93.8	89.5	78.6	69.8	58.9	50.2	37.1	28.4
152.5°	87.3	87.3	82.9	76.4	72.0	63.3	56.7	48.0	39.3	30.5	21.8
155°	69.8	67.6	65.5	61.1	56.7	50.2	43.6	37.1	30.5	21.8	15.3
157.5°	54.6	52.4	50.2	45.8	41.5	39.3	32.7	26.2	19.6	15.3	10.9
160°	39.3	37.1	34.9	32.7	30.5	26.2	21.8	17.5	13.1	8.7	6.5
162.5°	26.2	24.0	24.0	21.8	19.6	15.3	13.1	10.9	8.7	6.5	4.4
165°	13.1	13.1	10.9	10.9	8.7	6.5	6.5	6.5	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-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2057.6	2057.6	2066.4	2064.2	2057.6	2070.7	2086.0
5°	2051.1	2051.1	2057.6	2057.6	2051.1	2064.2	2077.3
7.5°	2040.2	2038.0	2044.5	2044.5	2035.8	2046.7	2062.0
10°	2020.5	2018.4	2024.9	2024.9	2016.2	2027.1	2040.2
12.5°	1998.7	1994.4	2000.9	1998.7	1990.0	2000.9	2014.0
15°	1970.4	1968.2	1972.5	1968.2	1959.4	1970.4	1983.4
17.5°	1942.0	1935.4	1937.6	1937.6	1922.3	1933.3	1944.2
20°	1904.9	1896.2	1898.3	1896.2	1885.3	1891.8	1904.9
22.5°	1867.8	1854.7	1854.7	1852.5	1839.4	1848.2	1859.1
25°	1822.0	1806.7	1806.7	1804.5	1789.2	1795.8	1806.7
27.5°	1776.2	1760.9	1754.3	1752.2	1736.9	1736.9	1752.2
30°	1728.2	1706.3	1702.0	1695.4	1680.1	1680.1	1693.2
32.5°	1682.3	1651.8	1643.1	1634.3	1619.1	1616.9	1632.1
35°	1621.2	1597.2	1582.0	1573.2	1555.8	1551.4	1564.5
37.5°	1571.0	1540.5	1518.7	1507.8	1490.3	1483.8	1501.2
40°	1516.5	1483.8	1455.4	1448.9	1422.7	1413.9	1429.2
42.5°	1455.4	1420.5	1392.1	1379.0	1359.4	1350.7	1352.8
45°	1394.3	1357.2	1326.7	1309.2	1289.6	1274.3	1283.0
47.5°	1331.0	1298.3	1261.2	1235.0	1211.0	1200.1	1204.5
50°	1267.7	1228.5	1193.6	1165.2	1136.8	1123.7	1132.5
52.5°	1204.5	1163.0	1123.7	1093.2	1060.5	1047.4	1049.5
55°	1143.4	1099.7	1053.9	1021.2	990.6	971.0	966.6
57.5°	1082.3	1034.3	986.3	949.2	909.9	892.4	885.9
60°	1016.8	966.6	916.4	872.8	831.3	811.7	803.0
62.5°	955.7	901.2	844.4	798.6	757.2	731.0	724.4
65°	896.8	833.5	776.8	724.4	678.6	650.2	641.5
67.5°	833.5	768.1	707.0	650.2	606.6	569.5	565.1
70°	774.6	704.8	637.1	578.2	530.2	493.1	475.7
72.5°	715.7	643.7	573.9	510.6	449.5	414.6	401.5
75°	659.0	584.8	510.6	445.1	377.5	336.0	322.9
77.5°	606.6	530.2	451.7	379.7	316.4	264.0	246.6
80°	556.4	477.9	394.9	320.8	253.1	196.4	176.7
82.5°	504.0	429.9	344.8	266.2	196.4	137.5	113.5
85°	458.2	384.0	298.9	220.4	150.6	87.3	61.1
87.5°	421.1	340.4	264.0	185.5	113.5	50.2	17.5
90°	384.0	305.5	229.1	152.7	85.1	28.4	2.2
92.5°	351.3	277.1	200.7	130.9	65.5	19.6	2.2
95°	320.8	248.7	176.7	109.1	52.4	13.1	2.2
97.5°	292.4	224.7	157.1	93.8	43.6	10.9	2.2
100°	268.4	202.9	139.6	82.9	37.1	8.7	2.2
102.5°	244.4	183.3	124.4	72.0	32.7	6.5	2.2
105°	224.7	165.8	111.3	65.5	28.4	6.5	2.2
107.5°	205.1	150.6	100.4	56.7	24.0	4.4	2.2
110°	185.5	137.5	89.5	50.2	21.8	4.4	2.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.2	124.4	80.7	45.8	17.5	4.4	2.2
115°	154.9	111.3	72.0	39.3	15.3	2.2	2.2
117.5°	139.6	100.4	63.3	34.9	13.1	2.2	2.2
120°	126.6	89.5	56.7	30.5	10.9	2.2	2.2
122.5°	113.5	80.7	50.2	26.2	8.7	2.2	2.2
125°	102.6	72.0	43.6	21.8	6.5	2.2	2.2
127.5°	91.6	63.3	39.3	19.6	6.5	2.2	2.2
130°	80.7	56.7	32.7	15.3	4.4	2.2	2.2
132.5°	72.0	48.0	28.4	13.1	4.4	2.2	2.2
135°	63.3	41.5	24.0	8.7	4.4	2.2	2.2
137.5°	54.6	34.9	19.6	6.5	2.2	2.2	2.2
140°	45.8	30.5	15.3	6.5	2.2	2.2	2.2
142.5°	39.3	24.0	10.9	4.4	2.2	2.2	2.2
145°	30.5	19.6	8.7	4.4	2.2	2.2	2.2
147.5°	24.0	15.3	6.5	4.4	2.2	2.2	2.2
150°	17.5	10.9	6.5	2.2	2.2	2.2	2.2
152.5°	13.1	8.7	4.4	2.2	2.2	2.2	2.2
155°	8.7	6.5	4.4	2.2	2.2	2.2	2.2
157.5°	6.5	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)