

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-130HL-LW-UNV-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-LD5-130HL-LW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

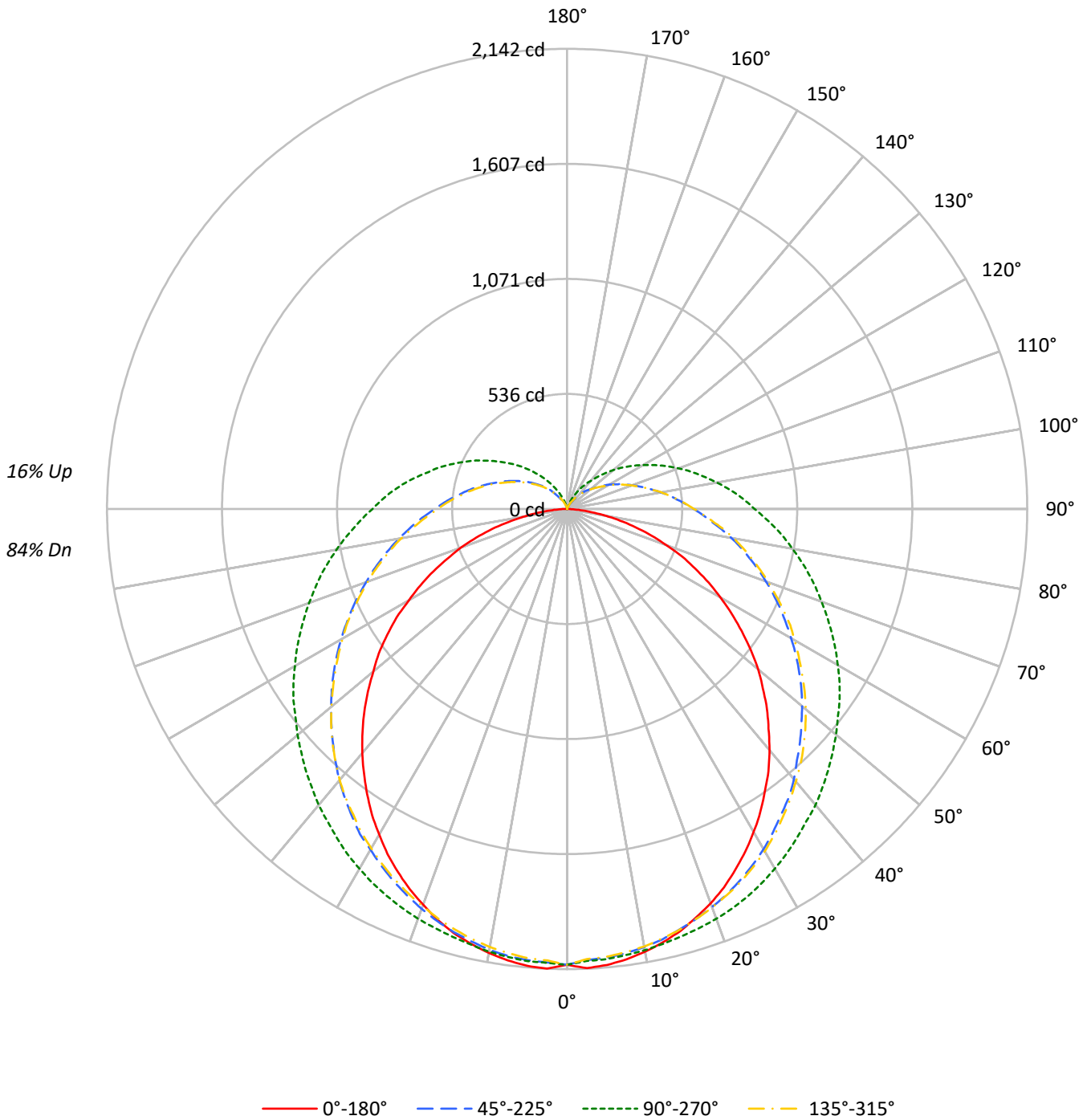
Lumens per Lamp: N/A
Luminaire Lumens: 9217.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	8572	8572	8572	8572
5°	8629	8261	8647	8296
10°	8561	8026	8589	8052
15°	8474	7825	8511	7834
20°	8353	7678	8382	7678
25°	8201	7548	8250	7540
30°	8030	7414	8092	7414
35°	7829	7290	7916	7299
40°	7631	7217	7725	7217
45°	7404	7141	7517	7150
50°	7167	7095	7264	7114
55°	6831	7102	7047	7133
60°	6479	7123	6691	7167
65°	6086	7195	6355	7266
70°	5527	7327	5957	7431
75°	4886	7567	5347	7712
80°	3875	7922	4401	8105
85°	2466	8491	3080	8726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	2.2
10°-20°	577.6	6.3
20°-30°	885.6	9.6
30°-40°	1092.5	11.9
40°-50°	1185.3	12.9
50°-60°	1168.2	12.7
60°-70°	1056.2	11.5
70°-80°	879.9	9.5
80°-90°	681.5	7.4
90°-100°	516.9	5.6
100°-110°	382.5	4.1
110°-120°	266.1	2.9
120°-130°	169.8	1.8
130°-140°	95.2	1.0
140°-150°	43.5	0.5
150°-160°	13.5	0.1
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1664.1	18.1
0°-40°	2756.6	29.9
0°-60°	5110.1	55.4
0°-90°	7727.9	83.8
90°-120°	1165.5	12.6
90°-150°	1474.0	16.0
90°-180°	1489.0	16.2
0°-180°	9217.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2122	2122	2122	2122	2122	
5°	2130	2104	2135	2112	2130	202
15°	2034	2059	2043	2061	2034	573
25°	1853	1989	1864	1987	1853	854
35°	1604	1866	1622	1869	1604	1005
45°	1316	1719	1336	1721	1316	1014
55°	991	1549	1023	1555	991	887
65°	658	1358	687	1372	658	652
75°	331	1164	362	1186	331	351
85°	63	969	78	996	63	76
90°	2	873	4	906	2	3
95°	2	792	2	830	2	2
105°	2	629	2	667	2	2
115°	2	479	2	521	2	2
125°	2	345	2	383	2	2
135°	2	224	2	264	2	2
145°	2	130	2	159	2	1
155°	2	54	2	74	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#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2139.4	2139.4	2137.1	2132.7	2134.9	2141.6	2137.1	2126.0	2119.2	2101.3	2105.8
5°	2130.4	2130.4	2128.2	2123.7	2126.0	2134.9	2130.4	2121.5	2112.5	2096.9	2103.6
7.5°	2114.8	2114.8	2112.5	2108.1	2112.5	2121.5	2117.0	2108.1	2101.3	2085.7	2092.4
10°	2092.4	2094.6	2092.4	2085.7	2094.6	2103.6	2101.3	2090.2	2083.4	2070.0	2076.7
12.5°	2065.5	2067.8	2065.5	2063.3	2067.8	2081.2	2076.7	2067.8	2063.3	2052.1	2058.8
15°	2034.2	2036.4	2032.0	2032.0	2036.4	2049.9	2049.9	2040.9	2036.4	2025.3	2038.7
17.5°	1993.9	1996.2	1993.9	1993.9	1998.4	2011.8	2014.1	2009.6	2005.1	2000.6	2014.1
20°	1953.6	1951.4	1951.4	1949.2	1958.1	1978.3	1976.0	1976.0	1971.5	1971.5	1987.2
22.5°	1906.6	1906.6	1904.4	1904.4	1915.6	1933.5	1933.5	1938.0	1933.5	1942.5	1955.9
25°	1852.9	1855.2	1852.9	1857.4	1866.4	1886.5	1888.7	1895.5	1897.7	1906.6	1922.3
27.5°	1797.0	1799.2	1797.0	1801.5	1817.1	1832.8	1844.0	1852.9	1855.2	1868.6	1888.7
30°	1736.6	1736.6	1738.8	1743.3	1761.2	1785.8	1794.8	1805.9	1805.9	1828.3	1848.5
32.5°	1673.9	1673.9	1673.9	1682.9	1703.0	1732.1	1743.3	1756.7	1761.2	1783.6	1805.9
35°	1604.5	1606.8	1606.8	1613.5	1640.3	1669.4	1685.1	1700.8	1709.7	1736.6	1759.0
37.5°	1539.6	1544.1	1537.4	1546.4	1584.4	1609.0	1626.9	1642.6	1658.2	1694.1	1712.0
40°	1465.8	1470.3	1468.0	1485.9	1517.3	1548.6	1568.7	1584.4	1606.8	1642.6	1662.7
42.5°	1387.5	1391.9	1396.4	1416.6	1450.1	1481.5	1506.1	1526.2	1553.1	1584.4	1618.0
45°	1315.9	1315.9	1322.6	1347.2	1383.0	1416.6	1445.7	1468.0	1499.4	1532.9	1566.5
47.5°	1235.3	1237.5	1246.5	1275.6	1313.6	1353.9	1380.8	1409.8	1443.4	1479.2	1517.3
50°	1161.4	1161.4	1174.9	1206.2	1242.0	1286.8	1315.9	1349.4	1385.2	1427.7	1465.8
52.5°	1076.4	1080.9	1101.0	1130.1	1177.1	1217.4	1251.0	1286.8	1329.3	1374.0	1416.6
55°	991.4	1000.3	1016.0	1056.3	1105.5	1143.5	1183.8	1228.6	1268.9	1318.1	1367.3
57.5°	908.6	915.3	939.9	980.2	1031.6	1078.6	1121.2	1163.7	1212.9	1262.1	1313.6
60°	823.5	832.5	861.6	901.9	957.8	1007.0	1056.3	1101.0	1152.5	1204.0	1257.7
62.5°	743.0	749.7	783.2	830.2	886.2	939.9	989.1	1042.8	1098.8	1148.0	1201.7
65°	657.9	669.1	707.2	749.7	814.6	868.3	924.2	982.4	1040.6	1094.3	1145.8
67.5°	579.6	586.3	626.6	675.8	740.7	801.2	859.3	922.0	982.4	1038.4	1089.8
70°	487.9	510.2	550.5	602.0	671.4	734.0	796.7	861.6	926.5	984.7	1033.9
72.5°	411.8	429.7	474.4	530.4	597.5	671.4	736.3	805.6	870.5	930.9	982.4
75°	331.2	349.1	400.6	463.2	532.6	610.9	678.1	749.7	816.8	877.2	930.9
77.5°	252.9	275.3	331.2	396.1	472.2	552.7	622.1	693.7	763.1	828.0	881.7
80°	181.3	205.9	266.3	340.2	414.0	494.6	570.7	642.3	711.6	776.5	832.5
82.5°	116.4	143.2	208.1	282.0	360.3	440.9	519.2	590.8	660.2	725.1	783.2
85°	62.7	91.8	158.9	232.7	311.1	391.6	469.9	546.0	613.2	673.6	736.3
87.5°	17.9	53.7	118.6	192.5	273.0	346.9	423.0	499.0	566.2	631.1	687.0
90°	2.2	31.3	89.5	158.9	237.2	308.8	384.9	456.5	523.7	588.6	644.5
92.5°	2.2	20.1	69.4	132.0	203.6	277.5	353.6	423.0	485.6	550.5	606.5
95°	2.2	15.7	55.9	111.9	179.0	248.4	320.0	387.1	452.0	512.5	568.4
97.5°	2.2	11.2	44.8	96.2	156.6	221.5	290.9	358.1	420.7	478.9	530.4
100°	2.2	9.0	35.8	82.8	136.5	199.2	261.8	326.7	387.1	443.1	496.8
102.5°	2.2	6.7	31.3	69.4	120.8	176.8	237.2	297.6	355.8	409.5	463.2
105°	2.2	6.7	26.9	60.4	107.4	158.9	214.8	273.0	326.7	378.2	427.4
107.5°	2.2	4.5	22.4	51.5	94.0	143.2	194.7	250.6	299.9	349.1	396.1
110°	2.2	4.5	17.9	47.0	82.8	127.6	176.8	228.3	275.3	322.3	367.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.2	4.5	15.7	40.3	71.6	114.1	158.9	205.9	250.6	297.6	337.9
115°	2.2	4.5	13.4	35.8	67.1	98.5	143.2	185.7	230.5	273.0	311.1
117.5°	2.2	4.5	11.2	29.1	58.2	89.5	125.3	167.8	208.1	248.4	284.2
120°	2.2	4.5	9.0	26.9	51.5	80.6	111.9	149.9	188.0	226.0	264.1
122.5°	2.2	2.2	9.0	22.4	44.8	71.6	102.9	132.0	167.8	203.6	237.2
125°	2.2	2.2	9.0	20.1	38.0	64.9	91.8	118.6	149.9	181.3	210.4
127.5°	2.2	2.2	6.7	15.7	33.6	55.9	80.6	109.7	132.0	161.1	190.2
130°	2.2	2.2	6.7	13.4	29.1	47.0	71.6	96.2	123.1	143.2	167.8
132.5°	2.2	2.2	6.7	11.2	22.4	38.0	60.4	82.8	107.4	129.8	149.9
135°	2.2	2.2	4.5	9.0	17.9	31.3	49.2	69.4	94.0	116.4	136.5
137.5°	2.2	2.2	4.5	9.0	13.4	26.9	38.0	55.9	78.3	98.5	118.6
140°	2.2	2.2	4.5	6.7	11.2	20.1	31.3	44.8	62.7	80.6	102.9
142.5°	2.2	2.2	2.2	6.7	9.0	15.7	24.6	35.8	49.2	64.9	82.8
145°	2.2	2.2	2.2	6.7	9.0	11.2	20.1	29.1	38.0	49.2	64.9
147.5°	2.2	2.2	2.2	4.5	6.7	9.0	15.7	22.4	29.1	38.0	47.0
150°	2.2	2.2	2.2	4.5	6.7	9.0	11.2	15.7	22.4	31.3	38.0
152.5°	2.2	2.2	2.2	4.5	4.5	6.7	9.0	11.2	15.7	22.4	26.9
155°	2.2	2.2	2.2	2.2	4.5	6.7	9.0	9.0	11.2	15.7	20.1
157.5°	2.2	2.2	2.2	2.2	4.5	4.5	6.7	6.7	9.0	9.0	13.4
160°	2.2	2.2	2.2	2.2	2.2	4.5	4.5	6.7	6.7	6.7	6.7
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5	6.7	6.7
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5
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°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2105.8	2108.1	2114.8	2114.8	2110.3	2110.3	2108.1	2105.8	2108.1	2112.5	2112.5
5°	2101.3	2103.6	2110.3	2112.5	2108.1	2105.8	2105.8	2103.6	2105.8	2110.3	2110.3
7.5°	2092.4	2094.6	2101.3	2103.6	2099.1	2099.1	2096.9	2094.6	2099.1	2101.3	2101.3
10°	2079.0	2081.2	2090.2	2092.4	2090.2	2087.9	2087.9	2085.7	2087.9	2092.4	2092.4
12.5°	2061.1	2065.5	2076.7	2076.7	2076.7	2074.5	2074.5	2072.3	2074.5	2079.0	2076.7
15°	2040.9	2049.9	2058.8	2063.3	2063.3	2063.3	2061.1	2058.8	2063.3	2065.5	2063.3
17.5°	2018.5	2029.7	2043.2	2047.6	2047.6	2049.9	2047.6	2045.4	2049.9	2049.9	2047.6
20°	1996.2	2007.4	2020.8	2025.3	2029.7	2032.0	2032.0	2029.7	2032.0	2034.2	2032.0
22.5°	1967.1	1980.5	1996.2	2002.9	2007.4	2011.8	2011.8	2011.8	2014.1	2016.3	2011.8
25°	1935.7	1951.4	1969.3	1976.0	1985.0	1987.2	1989.4	1989.4	1991.7	1993.9	1987.2
27.5°	1902.2	1920.1	1938.0	1949.2	1955.9	1960.4	1960.4	1962.6	1964.8	1967.1	1960.4
30°	1861.9	1888.7	1904.4	1913.4	1922.3	1929.0	1931.3	1933.5	1935.7	1938.0	1931.3
32.5°	1826.1	1848.5	1868.6	1879.8	1891.0	1899.9	1902.2	1902.2	1906.6	1906.6	1899.9
35°	1783.6	1810.4	1830.6	1841.8	1855.2	1861.9	1866.4	1866.4	1870.8	1870.8	1864.1
37.5°	1741.0	1767.9	1790.3	1803.7	1819.4	1828.3	1830.6	1830.6	1835.0	1835.0	1826.1
40°	1696.3	1725.4	1750.0	1765.7	1779.1	1790.3	1792.5	1799.2	1799.2	1797.0	1788.0
42.5°	1651.5	1678.4	1705.2	1723.1	1741.0	1752.2	1756.7	1759.0	1759.0	1756.7	1750.0
45°	1602.3	1633.6	1658.2	1680.6	1698.5	1709.7	1716.4	1718.7	1718.7	1714.2	1707.5
47.5°	1555.3	1586.6	1611.3	1635.9	1653.8	1667.2	1673.9	1676.2	1673.9	1671.7	1665.0
50°	1506.1	1541.9	1566.5	1591.1	1609.0	1620.2	1631.4	1633.6	1631.4	1629.2	1615.7
52.5°	1454.6	1492.6	1519.5	1544.1	1564.3	1577.7	1586.6	1588.9	1588.9	1584.4	1575.4
55°	1403.1	1436.7	1470.3	1497.1	1519.5	1532.9	1544.1	1548.6	1544.1	1539.6	1528.5
57.5°	1356.1	1387.5	1421.0	1450.1	1472.5	1490.4	1499.4	1503.8	1499.4	1492.6	1481.5
60°	1300.2	1333.8	1371.8	1398.7	1423.3	1441.2	1445.7	1454.6	1450.1	1443.4	1432.2
62.5°	1246.5	1286.8	1320.3	1353.9	1374.0	1394.2	1403.1	1407.6	1403.1	1396.4	1385.2
65°	1190.5	1235.3	1268.9	1302.4	1324.8	1344.9	1356.1	1358.4	1353.9	1347.2	1336.0
67.5°	1139.1	1181.6	1217.4	1253.2	1273.3	1293.5	1304.7	1309.1	1304.7	1295.7	1284.5
70°	1087.6	1130.1	1172.6	1199.5	1224.1	1246.5	1253.2	1259.9	1255.4	1246.5	1233.1
72.5°	1036.1	1080.9	1123.4	1150.3	1177.1	1197.3	1206.2	1212.9	1208.4	1199.5	1183.8
75°	982.4	1029.4	1071.9	1101.0	1127.9	1148.0	1157.0	1163.7	1159.2	1150.3	1132.4
77.5°	933.2	980.2	1020.5	1051.8	1078.6	1096.5	1112.2	1114.4	1110.0	1101.0	1083.1
80°	881.7	928.7	971.2	1002.6	1029.4	1047.3	1058.5	1065.2	1060.7	1051.8	1033.9
82.5°	837.0	879.5	922.0	953.3	980.2	1002.6	1011.5	1018.2	1016.0	1002.6	989.1
85°	787.7	837.0	870.5	904.1	930.9	953.3	960.0	969.0	966.8	955.6	937.7
87.5°	738.5	787.7	828.0	861.6	886.2	904.1	915.3	919.8	917.5	906.3	886.2
90°	698.2	743.0	783.2	819.1	839.2	859.3	870.5	872.8	872.8	859.3	843.7
92.5°	660.2	702.7	743.0	776.5	801.2	819.1	828.0	832.5	830.2	819.1	801.2
95°	617.6	664.6	702.7	736.3	760.9	778.8	787.7	792.2	790.0	778.8	760.9
97.5°	581.8	624.4	662.4	693.7	718.4	736.3	745.2	749.7	749.7	738.5	720.6
100°	546.0	588.6	624.4	655.7	678.1	696.0	704.9	707.2	704.9	696.0	678.1
102.5°	510.2	550.5	586.3	615.4	640.0	655.7	664.6	666.9	666.9	655.7	637.8
105°	474.4	514.7	548.3	579.6	599.7	615.4	622.1	628.8	626.6	617.6	599.7
107.5°	440.9	481.1	512.5	541.6	561.7	577.4	584.1	590.8	588.6	579.6	561.7
110°	409.5	447.6	476.7	505.8	523.7	539.3	550.5	552.7	548.3	539.3	523.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	380.4	414.0	443.1	469.9	490.1	501.3	510.2	514.7	510.2	501.3	490.1
115°	349.1	382.7	411.8	436.4	454.3	467.7	474.4	478.9	474.4	465.5	454.3
117.5°	320.0	351.3	380.4	405.1	420.7	431.9	438.6	443.1	438.6	431.9	420.7
120°	295.4	322.3	349.1	371.5	389.4	398.3	405.1	409.5	407.3	398.3	387.1
122.5°	266.3	295.4	320.0	342.4	358.1	367.0	371.5	376.0	373.7	367.0	355.8
125°	241.7	266.3	290.9	311.1	326.7	335.7	340.2	344.6	342.4	335.7	322.3
127.5°	214.8	241.7	261.8	282.0	293.2	306.6	308.8	313.3	311.1	304.3	293.2
130°	194.7	214.8	235.0	252.9	266.3	275.3	279.7	282.0	277.5	273.0	261.8
132.5°	170.1	192.5	210.4	226.0	235.0	243.9	248.4	250.6	250.6	243.9	235.0
135°	152.2	167.8	183.5	199.2	208.1	217.1	221.5	223.8	221.5	217.1	208.1
137.5°	136.5	149.9	161.1	174.6	185.7	190.2	194.7	194.7	192.5	190.2	183.5
140°	118.6	134.3	145.5	154.4	163.4	165.6	170.1	170.1	167.8	165.6	161.1
142.5°	100.7	114.1	125.3	136.5	143.2	147.7	149.9	152.2	149.9	147.7	141.0
145°	80.6	96.2	107.4	114.1	123.1	125.3	127.6	129.8	127.6	125.3	118.6
147.5°	62.7	76.1	87.3	96.2	102.9	105.2	107.4	109.7	107.4	102.9	100.7
150°	44.8	55.9	69.4	78.3	82.8	87.3	87.3	87.3	89.5	85.0	80.6
152.5°	35.8	40.3	49.2	58.2	64.9	67.1	69.4	69.4	67.1	67.1	62.7
155°	24.6	29.1	35.8	42.5	49.2	51.5	53.7	53.7	51.5	51.5	49.2
157.5°	15.7	20.1	24.6	29.1	35.8	38.0	40.3	40.3	40.3	38.0	35.8
160°	9.0	11.2	13.4	17.9	22.4	24.6	26.9	26.9	26.9	26.9	24.6
162.5°	6.7	6.7	6.7	9.0	11.2	13.4	15.7	15.7	15.7	15.7	13.4
165°	4.5	4.5	4.5	4.5	4.5	6.7	9.0	9.0	9.0	9.0	9.0
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-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2110.3	2110.3	2112.5	2108.1	2094.6	2096.9	2096.9	2105.8	2110.3	2112.5	2123.7
5°	2105.8	2105.8	2110.3	2103.6	2092.4	2092.4	2092.4	2101.3	2103.6	2108.1	2117.0
7.5°	2099.1	2099.1	2101.3	2094.6	2081.2	2081.2	2079.0	2087.9	2092.4	2094.6	2103.6
10°	2087.9	2087.9	2090.2	2083.4	2067.8	2067.8	2065.5	2072.3	2074.5	2079.0	2085.7
12.5°	2072.3	2072.3	2072.3	2065.5	2049.9	2047.6	2045.4	2052.1	2052.1	2054.3	2061.1
15°	2058.8	2054.3	2054.3	2047.6	2032.0	2027.5	2023.0	2025.3	2029.7	2027.5	2032.0
17.5°	2043.2	2038.7	2034.2	2027.5	2007.4	2000.6	1996.2	1998.4	1996.2	1993.9	1998.4
20°	2025.3	2018.5	2016.3	2005.1	1985.0	1973.8	1964.8	1960.4	1962.6	1955.9	1958.1
22.5°	2005.1	1996.2	1991.7	1978.3	1958.1	1944.7	1933.5	1924.6	1922.3	1913.4	1915.6
25°	1980.5	1969.3	1962.6	1951.4	1929.0	1913.4	1899.9	1886.5	1879.8	1868.6	1866.4
27.5°	1951.4	1940.2	1931.3	1920.1	1897.7	1877.6	1861.9	1844.0	1835.0	1821.6	1814.9
30°	1922.3	1908.9	1895.5	1886.5	1861.9	1839.5	1814.9	1799.2	1785.8	1770.1	1759.0
32.5°	1886.5	1873.1	1859.7	1846.2	1823.8	1797.0	1776.9	1752.2	1736.6	1718.7	1705.2
35°	1850.7	1832.8	1819.4	1801.5	1781.3	1750.0	1725.4	1700.8	1680.6	1660.5	1644.8
37.5°	1810.4	1797.0	1776.9	1761.2	1736.6	1705.2	1678.4	1647.1	1629.2	1602.3	1582.2
40°	1772.4	1756.7	1736.6	1716.4	1691.8	1656.0	1626.9	1591.1	1571.0	1539.6	1519.5
42.5°	1734.3	1712.0	1691.8	1669.4	1642.6	1609.0	1573.2	1537.4	1510.5	1481.5	1452.4
45°	1691.8	1667.2	1642.6	1618.0	1591.1	1557.5	1519.5	1481.5	1447.9	1421.0	1385.2
47.5°	1647.1	1622.4	1593.4	1566.5	1537.4	1503.8	1463.6	1423.3	1387.5	1356.1	1318.1
50°	1602.3	1577.7	1546.4	1517.3	1483.7	1450.1	1407.6	1360.6	1322.6	1282.3	1248.7
52.5°	1555.3	1530.7	1501.6	1463.6	1427.7	1394.2	1349.4	1300.2	1257.7	1224.1	1181.6
55°	1508.3	1483.7	1450.1	1412.1	1376.3	1333.8	1291.2	1242.0	1195.0	1154.7	1112.2
57.5°	1459.1	1436.7	1398.7	1367.3	1322.6	1277.8	1233.1	1186.1	1134.6	1087.6	1038.4
60°	1409.8	1385.2	1349.4	1311.4	1266.6	1221.9	1174.9	1123.4	1069.7	1018.2	973.5
62.5°	1365.1	1333.8	1300.2	1259.9	1212.9	1170.4	1116.7	1060.7	1007.0	953.3	899.6
65°	1313.6	1280.1	1248.7	1208.4	1159.2	1110.0	1056.3	1000.3	942.1	884.0	830.2
67.5°	1262.1	1228.6	1195.0	1154.7	1103.3	1051.8	995.8	939.9	875.0	819.1	756.4
70°	1210.7	1183.8	1141.3	1098.8	1051.8	995.8	939.9	879.5	812.3	751.9	687.0
72.5°	1159.2	1132.4	1089.8	1045.1	1000.3	942.1	881.7	821.3	758.6	689.3	619.9
75°	1110.0	1076.4	1038.4	995.8	948.8	888.4	828.0	765.3	691.5	626.6	555.0
77.5°	1063.0	1031.6	993.6	946.6	895.1	837.0	774.3	709.4	635.5	566.2	487.9
80°	1011.5	980.2	942.1	895.1	843.7	787.7	720.6	653.5	581.8	505.8	425.2
82.5°	962.3	933.2	890.7	848.1	792.2	736.3	669.1	602.0	525.9	452.0	373.7
85°	910.8	881.7	841.4	796.7	743.0	682.5	619.9	552.7	476.7	400.6	322.3
87.5°	866.0	832.5	792.2	747.4	693.7	635.5	575.1	503.5	429.7	355.8	275.3
90°	819.1	787.7	747.4	702.7	649.0	590.8	528.1	461.0	389.4	313.3	237.2
92.5°	778.8	745.2	707.2	662.4	608.7	552.7	490.1	423.0	353.6	279.7	205.9
95°	738.5	704.9	669.1	624.4	570.7	514.7	452.0	387.1	320.0	248.4	179.0
97.5°	693.7	664.6	628.8	586.3	532.6	478.9	418.5	355.8	290.9	221.5	156.6
100°	657.9	624.4	590.8	546.0	496.8	445.3	384.9	324.5	261.8	196.9	136.5
102.5°	617.6	586.3	552.7	510.2	461.0	409.5	353.6	295.4	237.2	176.8	118.6
105°	579.6	550.5	514.7	474.4	427.4	378.2	324.5	270.8	214.8	156.6	105.2
107.5°	541.6	512.5	478.9	440.9	396.1	346.9	297.6	243.9	192.5	141.0	94.0
110°	503.5	476.7	445.3	407.3	364.8	320.0	273.0	223.8	172.3	125.3	82.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	469.9	443.1	411.8	376.0	335.7	293.2	248.4	201.4	154.4	111.9	71.6
115°	436.4	411.8	380.4	349.1	308.8	268.5	226.0	181.3	138.7	100.7	62.7
117.5°	402.8	378.2	349.1	317.8	282.0	243.9	203.6	161.1	125.3	89.5	55.9
120°	369.2	346.9	320.0	290.9	259.6	221.5	181.3	145.5	111.9	78.3	49.2
122.5°	337.9	317.8	293.2	266.3	232.7	196.9	163.4	132.0	100.7	69.4	40.3
125°	308.8	288.7	266.3	239.5	208.1	176.8	147.7	118.6	87.3	60.4	33.6
127.5°	279.7	259.6	237.2	212.6	188.0	158.9	132.0	105.2	78.3	53.7	29.1
130°	250.6	232.7	212.6	192.5	167.8	141.0	118.6	91.8	67.1	42.5	24.6
132.5°	221.5	208.1	190.2	170.1	147.7	127.6	102.9	80.6	58.2	38.0	22.4
135°	196.9	183.5	167.8	149.9	132.0	111.9	89.5	69.4	49.2	31.3	17.9
137.5°	174.6	163.4	147.7	132.0	116.4	96.2	78.3	58.2	40.3	26.9	13.4
140°	154.4	143.2	129.8	114.1	100.7	82.8	64.9	47.0	35.8	22.4	11.2
142.5°	134.3	123.1	111.9	98.5	85.0	69.4	53.7	40.3	29.1	17.9	11.2
145°	114.1	105.2	94.0	82.8	69.4	55.9	44.8	33.6	22.4	13.4	9.0
147.5°	94.0	87.3	76.1	67.1	55.9	44.8	35.8	26.9	17.9	11.2	6.7
150°	76.1	69.4	60.4	51.5	44.8	35.8	29.1	20.1	13.4	11.2	6.7
152.5°	58.2	53.7	47.0	42.5	35.8	26.9	20.1	15.7	11.2	9.0	4.5
155°	47.0	42.5	38.0	31.3	26.9	20.1	15.7	11.2	9.0	6.7	4.5
157.5°	33.6	31.3	26.9	22.4	17.9	13.4	11.2	11.2	6.7	4.5	2.2
160°	22.4	20.1	17.9	13.4	11.2	11.2	9.0	6.7	4.5	4.5	2.2
162.5°	13.4	11.2	11.2	11.2	9.0	9.0	6.7	4.5	4.5	2.2	2.2
165°	9.0	9.0	9.0	6.7	6.7	6.7	4.5	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-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2123.7	2117.0	2126.0	2141.6	2143.9	2141.6	2137.1	2143.9	2152.8	2150.6	2134.9
5°	2119.2	2110.3	2119.2	2134.9	2134.9	2132.7	2130.4	2137.1	2146.1	2143.9	2130.4
7.5°	2105.8	2096.9	2105.8	2119.2	2121.5	2117.0	2117.0	2123.7	2132.7	2130.4	2119.2
10°	2087.9	2079.0	2083.4	2099.1	2103.6	2099.1	2099.1	2105.8	2117.0	2114.8	2101.3
12.5°	2061.1	2054.3	2058.8	2072.3	2076.7	2074.5	2072.3	2081.2	2092.4	2092.4	2079.0
15°	2032.0	2023.0	2027.5	2043.2	2045.4	2040.9	2043.2	2049.9	2063.3	2063.3	2052.1
17.5°	1998.4	1987.2	1993.9	2005.1	2007.4	2007.4	2007.4	2016.3	2032.0	2029.7	2020.8
20°	1960.4	1944.7	1949.2	1960.4	1964.8	1964.8	1964.8	1980.5	1991.7	1991.7	1982.7
22.5°	1915.6	1904.4	1904.4	1915.6	1922.3	1920.1	1920.1	1933.5	1949.2	1946.9	1946.9
25°	1864.1	1855.2	1850.7	1864.1	1866.4	1868.6	1873.1	1886.5	1904.4	1904.4	1906.6
27.5°	1810.4	1801.5	1799.2	1810.4	1812.7	1814.9	1819.4	1835.0	1852.9	1855.2	1859.7
30°	1759.0	1745.5	1741.0	1750.0	1754.5	1756.7	1756.7	1781.3	1797.0	1803.7	1812.7
32.5°	1698.5	1685.1	1673.9	1689.6	1691.8	1696.3	1698.5	1723.1	1741.0	1752.2	1765.7
35°	1638.1	1615.7	1611.3	1622.4	1626.9	1629.2	1633.6	1660.5	1685.1	1694.1	1712.0
37.5°	1571.0	1555.3	1541.9	1553.1	1557.5	1559.8	1573.2	1597.8	1622.4	1635.9	1653.8
40°	1508.3	1488.2	1477.0	1483.7	1488.2	1490.4	1506.1	1532.9	1562.0	1577.7	1600.1
42.5°	1438.9	1412.1	1403.1	1409.8	1412.1	1418.8	1432.2	1468.0	1497.1	1519.5	1537.4
45°	1369.6	1349.4	1329.3	1336.0	1338.2	1342.7	1362.9	1400.9	1432.2	1459.1	1479.2
47.5°	1298.0	1273.3	1253.2	1257.7	1266.6	1268.9	1291.2	1336.0	1365.1	1394.2	1421.0
50°	1226.3	1192.8	1177.1	1177.1	1181.6	1192.8	1221.9	1266.6	1298.0	1331.5	1360.6
52.5°	1152.5	1121.2	1103.3	1105.5	1110.0	1123.4	1150.3	1195.0	1230.8	1266.6	1302.4
55°	1078.6	1045.1	1027.2	1022.7	1027.2	1045.1	1076.4	1123.4	1159.2	1201.7	1239.8
57.5°	1004.8	964.5	948.8	942.1	946.6	969.0	1000.3	1049.6	1094.3	1134.6	1179.3
60°	924.2	892.9	866.0	850.4	861.6	890.7	924.2	975.7	1022.7	1067.5	1116.7
62.5°	854.9	814.6	785.5	769.8	781.0	805.6	852.6	901.9	953.3	1004.8	1054.0
65°	776.5	736.3	702.7	687.0	698.2	727.3	774.3	828.0	884.0	935.4	993.6
67.5°	700.4	657.9	617.6	602.0	615.4	646.7	698.2	758.6	819.1	872.8	935.4
70°	626.6	579.6	537.1	525.9	534.8	577.4	626.6	687.0	749.7	812.3	877.2
72.5°	559.5	501.3	456.5	443.1	454.3	501.3	557.2	619.9	687.0	754.2	823.5
75°	481.1	427.4	378.2	362.5	376.0	418.5	487.9	555.0	626.6	698.2	763.1
77.5°	418.5	355.8	304.3	279.7	302.1	355.8	423.0	494.6	568.4	642.3	716.1
80°	353.6	288.7	232.7	205.9	230.5	288.7	355.8	434.1	516.9	590.8	657.9
82.5°	295.4	226.0	167.8	138.7	165.6	230.5	304.3	382.7	463.2	537.1	615.4
85°	241.7	170.1	109.7	78.3	116.4	174.6	252.9	333.4	416.2	492.3	568.4
87.5°	196.9	127.6	67.1	33.6	71.6	136.5	210.4	290.9	373.7	449.8	521.4
90°	161.1	91.8	35.8	4.5	42.5	102.9	174.6	252.9	331.2	409.5	481.1
92.5°	132.0	69.4	20.1	2.2	26.9	82.8	149.9	223.8	299.9	376.0	445.3
95°	109.7	53.7	13.4	2.2	20.1	64.9	127.6	199.2	270.8	344.6	414.0
97.5°	94.0	44.8	11.2	2.2	15.7	55.9	109.7	176.8	246.2	315.5	382.7
100°	80.6	35.8	9.0	2.2	13.4	47.0	96.2	156.6	221.5	288.7	353.6
102.5°	69.4	29.1	6.7	2.2	11.2	40.3	85.0	141.0	199.2	264.1	326.7
105°	60.4	24.6	6.7	2.2	9.0	35.8	76.1	125.3	183.5	241.7	302.1
107.5°	51.5	20.1	4.5	2.2	6.7	29.1	67.1	114.1	165.6	221.5	277.5
110°	44.8	17.9	4.5	2.2	6.7	26.9	58.2	102.9	149.9	201.4	255.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	38.0	13.4	4.5	2.2	4.5	22.4	51.5	91.8	136.5	183.5	235.0
115°	33.6	11.2	2.2	2.2	4.5	20.1	47.0	82.8	123.1	167.8	214.8
117.5°	26.9	9.0	2.2	2.2	2.2	15.7	40.3	73.8	111.9	154.4	196.9
120°	22.4	9.0	2.2	2.2	2.2	13.4	35.8	64.9	100.7	138.7	179.0
122.5°	20.1	6.7	2.2	2.2	2.2	11.2	31.3	58.2	89.5	125.3	163.4
125°	17.9	6.7	2.2	2.2	2.2	9.0	26.9	51.5	80.6	111.9	147.7
127.5°	13.4	6.7	2.2	2.2	2.2	6.7	24.6	44.8	71.6	100.7	132.0
130°	11.2	4.5	2.2	2.2	2.2	6.7	20.1	40.3	62.7	89.5	118.6
132.5°	9.0	4.5	2.2	2.2	2.2	4.5	15.7	31.3	53.7	78.3	105.2
135°	9.0	4.5	2.2	2.2	2.2	4.5	11.2	26.9	44.8	67.1	89.5
137.5°	9.0	2.2	2.2	2.2	2.2	4.5	9.0	20.1	35.8	53.7	73.8
140°	6.7	2.2	2.2	2.2	2.2	2.2	6.7	15.7	29.1	44.8	62.7
142.5°	6.7	2.2	2.2	2.2	2.2	2.2	6.7	11.2	22.4	35.8	49.2
145°	4.5	2.2	2.2	2.2	2.2	2.2	4.5	9.0	17.9	26.9	40.3
147.5°	4.5	2.2	2.2	2.2	2.2	2.2	4.5	6.7	13.4	22.4	31.3
150°	4.5	2.2	2.2	2.2	2.2	2.2	4.5	6.7	9.0	15.7	24.6
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	6.7	11.2	15.7
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	6.7	9.0	11.2
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	6.7	9.0
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	6.7
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5
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-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2128.2	2112.5	2117.0	2114.8	2119.2	2126.0	2126.0	2123.7	2123.7	2119.2	2114.8
5°	2123.7	2108.1	2114.8	2112.5	2117.0	2123.7	2123.7	2121.5	2121.5	2114.8	2112.5
7.5°	2110.3	2099.1	2103.6	2103.6	2108.1	2114.8	2114.8	2112.5	2112.5	2105.8	2103.6
10°	2096.9	2083.4	2090.2	2090.2	2094.6	2103.6	2103.6	2101.3	2101.3	2094.6	2092.4
12.5°	2074.5	2061.1	2072.3	2074.5	2079.0	2087.9	2085.7	2085.7	2085.7	2079.0	2076.7
15°	2047.6	2038.7	2049.9	2052.1	2058.8	2070.0	2070.0	2070.0	2070.0	2063.3	2061.1
17.5°	2018.5	2011.8	2023.0	2027.5	2036.4	2047.6	2047.6	2049.9	2052.1	2047.6	2045.4
20°	1985.0	1980.5	1991.7	2000.6	2014.1	2025.3	2029.7	2032.0	2036.4	2032.0	2029.7
22.5°	1946.9	1946.9	1962.6	1971.5	1987.2	1998.4	2005.1	2011.8	2016.3	2011.8	2009.6
25°	1904.4	1911.1	1926.8	1942.5	1960.4	1971.5	1978.3	1987.2	1991.7	1989.4	1987.2
27.5°	1864.1	1873.1	1893.2	1908.9	1924.6	1942.5	1949.2	1960.4	1964.8	1964.8	1962.6
30°	1817.1	1830.6	1852.9	1870.8	1891.0	1908.9	1917.8	1929.0	1935.7	1931.3	1933.5
32.5°	1772.4	1794.8	1812.7	1832.8	1855.2	1873.1	1884.3	1897.7	1904.4	1902.2	1904.4
35°	1723.1	1745.5	1770.1	1790.3	1817.1	1835.0	1850.7	1861.9	1870.8	1868.6	1868.6
37.5°	1669.4	1698.5	1723.1	1750.0	1774.6	1794.8	1810.4	1823.8	1832.8	1832.8	1832.8
40°	1618.0	1649.3	1673.9	1705.2	1736.6	1754.5	1772.4	1785.8	1794.8	1797.0	1799.2
42.5°	1562.0	1595.6	1624.7	1658.2	1689.6	1712.0	1732.1	1747.8	1756.7	1761.2	1759.0
45°	1510.5	1541.9	1575.4	1613.5	1642.6	1665.0	1689.6	1707.5	1716.4	1718.7	1720.9
47.5°	1452.4	1488.2	1526.2	1564.3	1593.4	1622.4	1644.8	1662.7	1671.7	1678.4	1678.4
50°	1396.4	1434.5	1477.0	1517.3	1548.6	1577.7	1600.1	1620.2	1631.4	1635.9	1638.1
52.5°	1344.9	1380.8	1425.5	1465.8	1497.1	1526.2	1555.3	1577.7	1588.9	1593.4	1593.4
55°	1282.3	1327.0	1376.3	1414.3	1447.9	1481.5	1510.5	1532.9	1544.1	1550.8	1555.3
57.5°	1224.1	1271.1	1322.6	1362.9	1403.1	1434.5	1461.3	1490.4	1499.4	1508.3	1510.5
60°	1168.2	1215.2	1264.4	1309.1	1349.4	1383.0	1414.3	1438.9	1454.6	1459.1	1463.6
62.5°	1110.0	1159.2	1210.7	1255.4	1298.0	1338.2	1367.3	1389.7	1407.6	1414.3	1418.8
65°	1054.0	1105.5	1157.0	1204.0	1248.7	1289.0	1318.1	1340.5	1358.4	1369.6	1371.8
67.5°	993.6	1049.6	1103.3	1152.5	1197.3	1239.8	1268.9	1291.2	1309.1	1322.6	1324.8
70°	937.7	995.8	1049.6	1103.3	1148.0	1190.5	1221.9	1244.2	1264.4	1273.3	1277.8
72.5°	884.0	944.4	1000.3	1054.0	1098.8	1141.3	1174.9	1197.3	1217.4	1228.6	1230.8
75°	832.5	892.9	953.3	1004.8	1051.8	1094.3	1127.9	1152.5	1170.4	1181.6	1186.1
77.5°	781.0	843.7	904.1	955.6	1004.8	1047.3	1076.4	1105.5	1123.4	1136.8	1136.8
80°	729.5	794.4	857.1	908.6	957.8	995.8	1029.4	1058.5	1076.4	1089.8	1089.8
82.5°	684.8	747.4	807.9	859.3	908.6	951.1	984.7	1011.5	1031.6	1040.6	1042.8
85°	633.3	702.7	758.6	814.6	861.6	901.9	935.4	964.5	982.4	991.4	995.8
87.5°	590.8	657.9	718.4	767.6	814.6	854.9	892.9	917.5	935.4	946.6	951.1
90°	550.5	615.4	675.8	725.1	774.3	812.3	848.1	872.8	892.9	901.9	906.3
92.5°	514.7	579.6	637.8	687.0	734.0	776.5	810.1	834.7	852.6	861.6	868.3
95°	481.1	543.8	599.7	653.5	698.2	736.3	772.1	796.7	816.8	823.5	830.2
97.5°	447.6	508.0	563.9	615.4	662.4	698.2	731.8	756.4	772.1	783.2	790.0
100°	418.5	476.7	530.4	579.6	624.4	657.9	693.7	716.1	731.8	740.7	749.7
102.5°	387.1	445.3	496.8	543.8	590.8	622.1	655.7	678.1	691.5	707.2	707.2
105°	360.3	414.0	465.5	510.2	550.5	588.6	617.6	640.0	655.7	666.9	666.9
107.5°	331.2	384.9	434.1	481.1	519.2	555.0	581.8	602.0	619.9	626.6	633.3
110°	308.8	355.8	405.1	449.8	485.6	519.2	546.0	568.4	584.1	590.8	595.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	282.0	331.2	376.0	418.5	454.3	485.6	512.5	530.4	546.0	555.0	557.2
115°	259.6	306.6	346.9	387.1	425.2	452.0	476.7	494.6	510.2	516.9	521.4
117.5°	239.5	282.0	322.3	355.8	391.6	420.7	445.3	461.0	474.4	483.4	487.9
120°	219.3	259.6	295.4	329.0	362.5	389.4	411.8	427.4	443.1	449.8	449.8
122.5°	199.2	237.2	270.8	302.1	333.4	358.1	382.7	396.1	409.5	416.2	416.2
125°	181.3	217.1	248.4	277.5	306.6	329.0	349.1	364.8	378.2	382.7	382.7
127.5°	163.4	196.9	226.0	252.9	277.5	299.9	320.0	335.7	346.9	351.3	351.3
130°	147.7	176.8	203.6	230.5	255.1	273.0	293.2	306.6	313.3	320.0	322.3
132.5°	132.0	158.9	183.5	205.9	230.5	248.4	264.1	277.5	284.2	290.9	293.2
135°	116.4	141.0	163.4	185.7	205.9	223.8	237.2	248.4	257.4	261.8	264.1
137.5°	98.5	125.3	145.5	163.4	185.7	199.2	214.8	221.5	230.5	235.0	235.0
140°	82.8	102.9	125.3	143.2	161.1	174.6	188.0	199.2	205.9	208.1	208.1
142.5°	67.1	85.0	102.9	125.3	141.0	152.2	165.6	174.6	179.0	181.3	183.5
145°	53.7	67.1	82.8	102.9	120.8	134.3	141.0	149.9	154.4	156.6	158.9
147.5°	40.3	53.7	67.1	80.6	98.5	111.9	118.6	127.6	132.0	134.3	134.3
150°	31.3	40.3	49.2	62.7	76.1	91.8	100.7	107.4	109.7	111.9	111.9
152.5°	22.4	31.3	38.0	47.0	55.9	69.4	82.8	87.3	89.5	91.8	91.8
155°	15.7	22.4	26.9	33.6	40.3	51.5	62.7	69.4	71.6	73.8	73.8
157.5°	11.2	15.7	17.9	24.6	29.1	33.6	42.5	53.7	55.9	55.9	55.9
160°	6.7	9.0	11.2	15.7	17.9	22.4	26.9	33.6	40.3	40.3	40.3
162.5°	4.5	6.7	6.7	9.0	9.0	13.4	15.7	17.9	24.6	26.9	26.9
165°	2.2	4.5	4.5	4.5	4.5	4.5	6.7	6.7	11.2	13.4	13.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2117.0	2121.5	2119.2	2119.2	2119.2	2123.7	2119.2	2099.1	2103.6	2108.1	2112.5
5°	2114.8	2117.0	2117.0	2114.8	2114.8	2119.2	2114.8	2094.6	2099.1	2103.6	2105.8
7.5°	2105.8	2108.1	2108.1	2108.1	2105.8	2110.3	2103.6	2085.7	2085.7	2090.2	2092.4
10°	2094.6	2099.1	2096.9	2094.6	2094.6	2094.6	2090.2	2070.0	2070.0	2072.3	2074.5
12.5°	2081.2	2081.2	2081.2	2079.0	2076.7	2076.7	2072.3	2052.1	2049.9	2054.3	2052.1
15°	2063.3	2067.8	2063.3	2061.1	2056.6	2056.6	2049.9	2029.7	2025.3	2027.5	2025.3
17.5°	2047.6	2049.9	2045.4	2040.9	2036.4	2034.2	2027.5	2005.1	1998.4	2000.6	1996.2
20°	2032.0	2032.0	2027.5	2023.0	2016.3	2009.6	2000.6	1978.3	1967.1	1967.1	1958.1
22.5°	2011.8	2011.8	2007.4	2000.6	1993.9	1985.0	1976.0	1953.6	1935.7	1931.3	1924.6
25°	1989.4	1987.2	1985.0	1978.3	1964.8	1955.9	1946.9	1922.3	1902.2	1893.2	1882.0
27.5°	1962.6	1962.6	1955.9	1949.2	1935.7	1924.6	1913.4	1891.0	1864.1	1852.9	1837.3
30°	1933.5	1933.5	1926.8	1917.8	1904.4	1891.0	1877.6	1850.7	1823.8	1808.2	1790.3
32.5°	1904.4	1902.2	1895.5	1886.5	1873.1	1852.9	1841.8	1814.9	1783.6	1765.7	1741.0
35°	1868.6	1866.4	1859.7	1848.5	1830.6	1814.9	1797.0	1772.4	1736.6	1714.2	1687.3
37.5°	1832.8	1830.6	1826.1	1810.4	1792.5	1774.6	1752.2	1727.6	1694.1	1665.0	1638.1
40°	1797.0	1794.8	1785.8	1774.6	1752.2	1729.9	1707.5	1682.9	1647.1	1613.5	1584.4
42.5°	1759.0	1756.7	1745.5	1732.1	1707.5	1685.1	1658.2	1631.4	1595.6	1555.3	1526.2
45°	1720.9	1716.4	1705.2	1689.6	1662.7	1638.1	1611.3	1579.9	1544.1	1506.1	1468.0
47.5°	1680.6	1673.9	1662.7	1640.3	1618.0	1591.1	1559.8	1526.2	1490.4	1447.9	1407.6
50°	1635.9	1631.4	1618.0	1597.8	1571.0	1544.1	1508.3	1474.7	1432.2	1391.9	1342.7
52.5°	1593.4	1584.4	1573.2	1550.8	1524.0	1494.9	1456.8	1416.6	1374.0	1336.0	1284.5
55°	1548.6	1544.1	1528.5	1510.5	1477.0	1443.4	1407.6	1365.1	1318.1	1273.3	1224.1
57.5°	1506.1	1497.1	1483.7	1459.1	1430.0	1396.4	1358.4	1313.6	1262.1	1215.2	1161.4
60°	1463.6	1450.1	1434.5	1412.1	1380.8	1344.9	1304.7	1257.7	1206.2	1154.7	1098.8
62.5°	1416.6	1405.4	1387.5	1365.1	1333.8	1295.7	1253.2	1204.0	1154.7	1101.0	1040.6
65°	1369.6	1358.4	1340.5	1318.1	1286.8	1244.2	1199.5	1150.3	1094.3	1042.8	977.9
67.5°	1322.6	1311.4	1291.2	1266.6	1235.3	1195.0	1148.0	1096.5	1040.6	984.7	917.5
70°	1275.6	1262.1	1244.2	1217.4	1186.1	1143.5	1096.5	1042.8	986.9	926.5	859.3
72.5°	1228.6	1217.4	1195.0	1170.4	1136.8	1094.3	1047.3	993.6	935.4	872.8	805.6
75°	1181.6	1168.2	1152.5	1123.4	1087.6	1047.3	998.1	944.4	881.7	821.3	751.9
77.5°	1134.6	1123.4	1103.3	1074.2	1040.6	998.1	948.8	895.1	832.5	769.8	696.0
80°	1087.6	1074.2	1058.5	1031.6	993.6	951.1	899.6	845.9	783.2	718.4	644.5
82.5°	1040.6	1027.2	1009.3	982.4	946.6	904.1	854.9	796.7	734.0	666.9	597.5
85°	993.6	982.4	962.3	935.4	897.4	854.9	805.6	754.2	687.0	619.9	550.5
87.5°	946.6	935.4	915.3	888.4	852.6	810.1	760.9	707.2	642.3	579.6	503.5
90°	901.9	892.9	872.8	845.9	810.1	767.6	722.8	664.6	602.0	539.3	467.7
92.5°	861.6	852.6	834.7	807.9	776.5	729.5	684.8	628.8	566.2	501.3	431.9
95°	825.8	814.6	796.7	772.1	734.0	693.7	649.0	593.0	532.6	467.7	400.6
97.5°	785.5	774.3	756.4	729.5	698.2	655.7	610.9	557.2	496.8	436.4	369.2
100°	745.2	734.0	713.9	691.5	660.2	617.6	575.1	521.4	465.5	407.3	342.4
102.5°	704.9	693.7	675.8	653.5	622.1	584.1	541.6	490.1	434.1	376.0	315.5
105°	666.9	655.7	637.8	615.4	586.3	548.3	503.5	458.8	405.1	349.1	290.9
107.5°	628.8	617.6	602.0	579.6	550.5	514.7	472.2	425.2	376.0	322.3	266.3
110°	590.8	581.8	563.9	543.8	514.7	478.9	440.9	396.1	346.9	297.6	243.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	555.0	546.0	528.1	505.8	481.1	447.6	409.5	367.0	320.0	273.0	221.5
115°	519.2	508.0	492.3	472.2	447.6	416.2	380.4	342.4	295.4	250.6	203.6
117.5°	483.4	474.4	458.8	438.6	416.2	384.9	351.3	315.5	270.8	228.3	185.7
120°	447.6	440.9	425.2	407.3	384.9	355.8	324.5	288.7	248.4	208.1	167.8
122.5°	414.0	407.3	391.6	376.0	353.6	326.7	297.6	264.1	228.3	190.2	154.4
125°	382.7	373.7	360.3	344.6	324.5	299.9	270.8	239.5	205.9	172.3	138.7
127.5°	349.1	342.4	333.4	315.5	295.4	273.0	246.2	219.3	188.0	156.6	125.3
130°	322.3	313.3	302.1	288.7	270.8	248.4	223.8	196.9	170.1	141.0	109.7
132.5°	290.9	282.0	273.0	259.6	243.9	223.8	201.4	176.8	152.2	125.3	98.5
135°	261.8	255.1	246.2	232.7	217.1	201.4	179.0	156.6	134.3	109.7	87.3
137.5°	235.0	228.3	219.3	210.4	194.7	179.0	158.9	138.7	118.6	96.2	76.1
140°	208.1	203.6	194.7	185.7	172.3	156.6	138.7	120.8	102.9	82.8	64.9
142.5°	181.3	176.8	170.1	161.1	149.9	136.5	120.8	105.2	87.3	71.6	55.9
145°	156.6	154.4	147.7	138.7	129.8	116.4	102.9	89.5	73.8	60.4	44.8
147.5°	132.0	129.8	125.3	118.6	109.7	98.5	87.3	73.8	62.7	49.2	35.8
150°	109.7	107.4	105.2	96.2	91.8	80.6	71.6	60.4	51.5	38.0	29.1
152.5°	89.5	89.5	85.0	78.3	73.8	64.9	58.2	49.2	40.3	31.3	22.4
155°	71.6	69.4	67.1	62.7	58.2	51.5	44.8	38.0	31.3	22.4	15.7
157.5°	55.9	53.7	51.5	47.0	42.5	40.3	33.6	26.9	20.1	15.7	11.2
160°	40.3	38.0	35.8	33.6	31.3	26.9	22.4	17.9	13.4	9.0	6.7
162.5°	26.9	24.6	24.6	22.4	20.1	15.7	13.4	11.2	9.0	6.7	4.5
165°	13.4	13.4	11.2	11.2	9.0	6.7	6.7	6.7	4.5	4.5	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-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2110.3	2110.3	2119.2	2117.0	2110.3	2123.7	2139.4
5°	2103.6	2103.6	2110.3	2110.3	2103.6	2117.0	2130.4
7.5°	2092.4	2090.2	2096.9	2096.9	2087.9	2099.1	2114.8
10°	2072.3	2070.0	2076.7	2076.7	2067.8	2079.0	2092.4
12.5°	2049.9	2045.4	2052.1	2049.9	2040.9	2052.1	2065.5
15°	2020.8	2018.5	2023.0	2018.5	2009.6	2020.8	2034.2
17.5°	1991.7	1985.0	1987.2	1987.2	1971.5	1982.7	1993.9
20°	1953.6	1944.7	1946.9	1944.7	1933.5	1940.2	1953.6
22.5°	1915.6	1902.2	1902.2	1899.9	1886.5	1895.5	1906.6
25°	1868.6	1852.9	1852.9	1850.7	1835.0	1841.8	1852.9
27.5°	1821.6	1805.9	1799.2	1797.0	1781.3	1781.3	1797.0
30°	1772.4	1750.0	1745.5	1738.8	1723.1	1723.1	1736.6
32.5°	1725.4	1694.1	1685.1	1676.2	1660.5	1658.2	1673.9
35°	1662.7	1638.1	1622.4	1613.5	1595.6	1591.1	1604.5
37.5°	1611.3	1579.9	1557.5	1546.4	1528.5	1521.7	1539.6
40°	1555.3	1521.7	1492.6	1485.9	1459.1	1450.1	1465.8
42.5°	1492.6	1456.8	1427.7	1414.3	1394.2	1385.2	1387.5
45°	1430.0	1391.9	1360.6	1342.7	1322.6	1306.9	1315.9
47.5°	1365.1	1331.5	1293.5	1266.6	1242.0	1230.8	1235.3
50°	1300.2	1259.9	1224.1	1195.0	1165.9	1152.5	1161.4
52.5°	1235.3	1192.8	1152.5	1121.2	1087.6	1074.2	1076.4
55°	1172.6	1127.9	1080.9	1047.3	1016.0	995.8	991.4
57.5°	1110.0	1060.7	1011.5	973.5	933.2	915.3	908.6
60°	1042.8	991.4	939.9	895.1	852.6	832.5	823.5
62.5°	980.2	924.2	866.0	819.1	776.5	749.7	743.0
65°	919.8	854.9	796.7	743.0	696.0	666.9	657.9
67.5°	854.9	787.7	725.1	666.9	622.1	584.1	579.6
70°	794.4	722.8	653.5	593.0	543.8	505.8	487.9
72.5°	734.0	660.2	588.6	523.7	461.0	425.2	411.8
75°	675.8	599.7	523.7	456.5	387.1	344.6	331.2
77.5°	622.1	543.8	463.2	389.4	324.5	270.8	252.9
80°	570.7	490.1	405.1	329.0	259.6	201.4	181.3
82.5°	516.9	440.9	353.6	273.0	201.4	141.0	116.4
85°	469.9	393.9	306.6	226.0	154.4	89.5	62.7
87.5°	431.9	349.1	270.8	190.2	116.4	51.5	17.9
90°	393.9	313.3	235.0	156.6	87.3	29.1	2.2
92.5°	360.3	284.2	205.9	134.3	67.1	20.1	2.2
95°	329.0	255.1	181.3	111.9	53.7	13.4	2.2
97.5°	299.9	230.5	161.1	96.2	44.8	11.2	2.2
100°	275.3	208.1	143.2	85.0	38.0	9.0	2.2
102.5°	250.6	188.0	127.6	73.8	33.6	6.7	2.2
105°	230.5	170.1	114.1	67.1	29.1	6.7	2.2
107.5°	210.4	154.4	102.9	58.2	24.6	4.5	2.2
110°	190.2	141.0	91.8	51.5	22.4	4.5	2.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	174.6	127.6	82.8	47.0	17.9	4.5	2.2
115°	158.9	114.1	73.8	40.3	15.7	2.2	2.2
117.5°	143.2	102.9	64.9	35.8	13.4	2.2	2.2
120°	129.8	91.8	58.2	31.3	11.2	2.2	2.2
122.5°	116.4	82.8	51.5	26.9	9.0	2.2	2.2
125°	105.2	73.8	44.8	22.4	6.7	2.2	2.2
127.5°	94.0	64.9	40.3	20.1	6.7	2.2	2.2
130°	82.8	58.2	33.6	15.7	4.5	2.2	2.2
132.5°	73.8	49.2	29.1	13.4	4.5	2.2	2.2
135°	64.9	42.5	24.6	9.0	4.5	2.2	2.2
137.5°	55.9	35.8	20.1	6.7	2.2	2.2	2.2
140°	47.0	31.3	15.7	6.7	2.2	2.2	2.2
142.5°	40.3	24.6	11.2	4.5	2.2	2.2	2.2
145°	31.3	20.1	9.0	4.5	2.2	2.2	2.2
147.5°	24.6	15.7	6.7	4.5	2.2	2.2	2.2
150°	17.9	11.2	6.7	2.2	2.2	2.2	2.2
152.5°	13.4	9.0	4.5	2.2	2.2	2.2	2.2
155°	9.0	6.7	4.5	2.2	2.2	2.2	2.2
157.5°	6.7	4.5	2.2	2.2	2.2	2.2	2.2
160°	4.5	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)