

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-LD5-136SL-LW-UNV-L935-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-LD5-136SL-LW-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

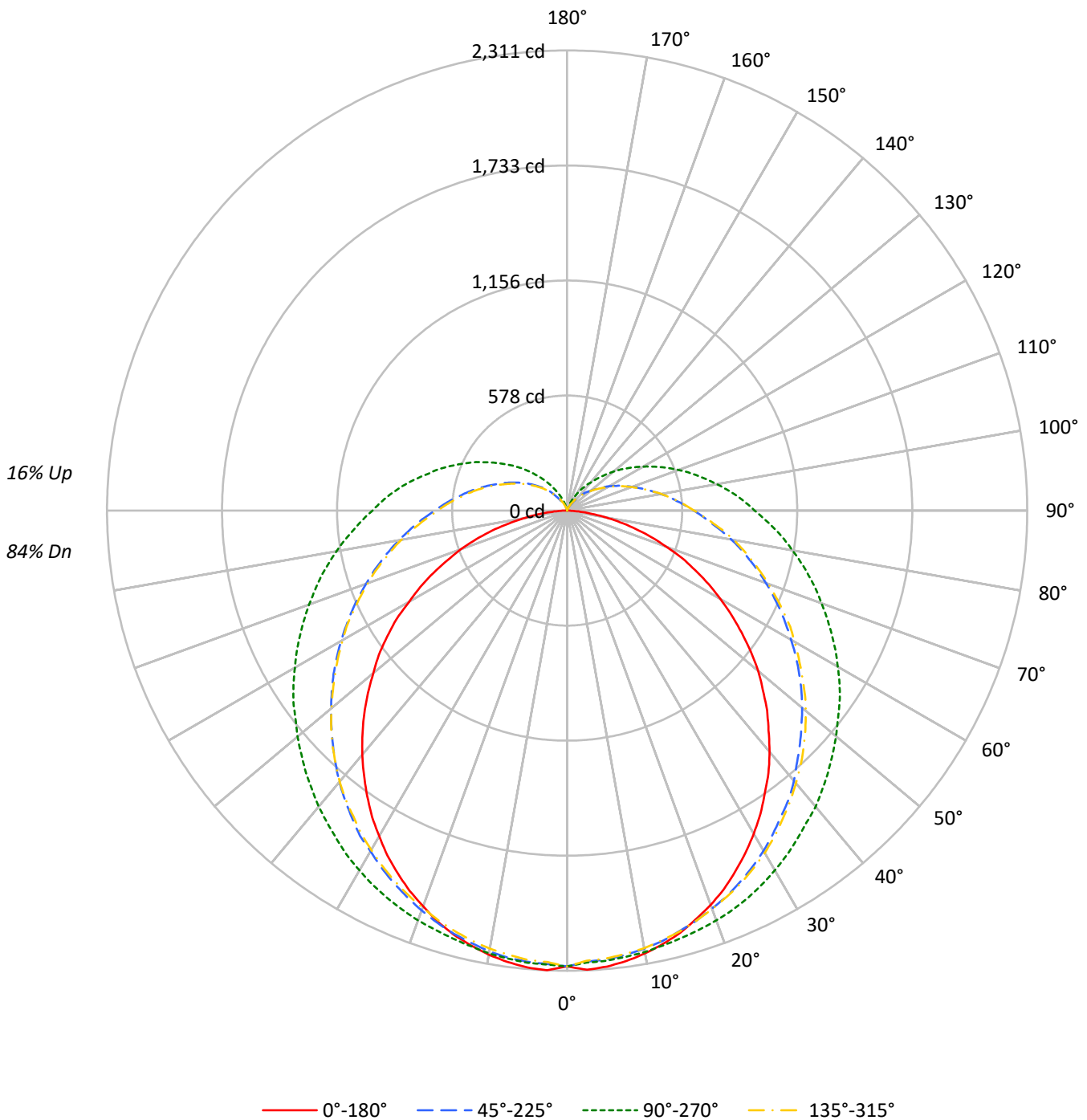
Lumens per Lamp: N/A  
Luminaire Lumens: 9945.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 110  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	9249	9249	9249	9249
5°	9311	8913	9330	8951
10°	9238	8660	9267	8688
15°	9143	8443	9183	8453
20°	9013	8285	9044	8285
25°	8849	8144	8902	8135
30°	8664	8000	8731	8000
35°	8447	7866	8541	7875
40°	8234	7787	8335	7787
45°	7988	7704	8110	7714
50°	7734	7655	7838	7676
55°	7371	7663	7604	7696
60°	6992	7686	7220	7733
65°	6567	7763	6858	7840
70°	5963	7906	6427	8018
75°	5272	8164	5771	8321
80°	4181	8548	4747	8745
85°	2659	9161	3324	9416



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	2.2
10°-20°	623.2	6.3
20°-30°	955.5	9.6
30°-40°	1178.8	11.9
40°-50°	1278.9	12.9
50°-60°	1260.5	12.7
60°-70°	1139.7	11.5
70°-80°	949.4	9.5
80°-90°	735.4	7.4
90°-100°	557.7	5.6
100°-110°	412.7	4.1
110°-120°	287.1	2.9
120°-130°	183.2	1.8
130°-140°	102.8	1.0
140°-150°	46.9	0.5
150°-160°	14.5	0.1
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1795.6	18.1
0°-40°	2974.3	29.9
0°-60°	5513.8	55.4
0°-90°	8338.2	83.8
90°-120°	1257.5	12.6
90°-150°	1590.4	16.0
90°-180°	1607.0	16.2
0°-180°	9945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2289	2289	2289	2289	2289	
5°	2299	2270	2304	2279	2299	218
15°	2195	2221	2204	2224	2195	618
25°	1999	2147	2011	2144	1999	921
35°	1731	2014	1751	2016	1731	1084
45°	1420	1854	1442	1857	1420	1094
55°	1070	1671	1104	1678	1070	957
65°	710	1466	741	1480	710	704
75°	357	1256	391	1280	357	378
85°	68	1046	84	1074	68	82
90°	2	942	5	978	2	4
95°	2	855	2	896	2	2
105°	2	678	2	720	2	3
115°	2	517	2	563	2	2
125°	2	372	2	413	2	2
135°	2	242	2	285	2	2
145°	2	140	2	171	2	2
155°	2	58	2	80	2	1
165°	2	10	2	14	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2308.4	2308.4	2305.9	2301.1	2303.5	2310.8	2305.9	2293.9	2286.6	2267.3	2272.1
5°	2298.7	2298.7	2296.3	2291.5	2293.9	2303.5	2298.7	2289.0	2279.4	2262.5	2269.7
7.5°	2281.8	2281.8	2279.4	2274.6	2279.4	2289.0	2284.2	2274.6	2267.3	2250.4	2257.7
10°	2257.7	2260.1	2257.7	2250.4	2260.1	2269.7	2267.3	2255.2	2248.0	2233.5	2240.8
12.5°	2228.7	2231.1	2228.7	2226.3	2231.1	2245.6	2240.8	2231.1	2226.3	2214.2	2221.4
15°	2194.9	2197.3	2192.5	2192.5	2197.3	2211.8	2211.8	2202.1	2197.3	2185.2	2199.7
17.5°	2151.4	2153.8	2151.4	2151.4	2156.2	2170.7	2173.1	2168.3	2163.5	2158.7	2173.1
20°	2108.0	2105.5	2105.5	2103.1	2112.8	2134.5	2132.1	2132.1	2127.3	2127.3	2144.2
22.5°	2057.2	2057.2	2054.8	2054.8	2066.9	2086.2	2086.2	2091.0	2086.2	2095.9	2110.4
25°	1999.3	2001.7	1999.3	2004.1	2013.8	2035.5	2037.9	2045.2	2047.6	2057.2	2074.1
27.5°	1938.9	1941.3	1938.9	1943.8	1960.7	1977.6	1989.6	1999.3	2001.7	2016.2	2037.9
30°	1873.7	1873.7	1876.1	1881.0	1900.3	1926.9	1936.5	1948.6	1948.6	1972.7	1994.5
32.5°	1806.1	1806.1	1806.1	1815.8	1837.5	1868.9	1881.0	1895.5	1900.3	1924.4	1948.6
35°	1731.3	1733.7	1733.7	1740.9	1769.9	1801.3	1818.2	1835.1	1844.8	1873.7	1897.9
37.5°	1661.2	1666.1	1658.8	1668.5	1709.5	1736.1	1755.4	1772.3	1789.2	1827.9	1847.2
40°	1581.6	1586.4	1584.0	1603.3	1637.1	1670.9	1692.6	1709.5	1733.7	1772.3	1794.1
42.5°	1497.1	1501.9	1506.7	1528.4	1564.7	1598.5	1625.0	1646.8	1675.7	1709.5	1745.8
45°	1419.8	1419.8	1427.0	1453.6	1492.2	1528.4	1559.8	1584.0	1617.8	1654.0	1690.2
47.5°	1332.9	1335.3	1344.9	1376.3	1417.4	1460.8	1489.8	1521.2	1557.4	1596.1	1637.1
50°	1253.2	1253.2	1267.7	1301.5	1340.1	1388.4	1419.8	1456.0	1494.6	1540.5	1581.6
52.5°	1161.4	1166.3	1188.0	1219.4	1270.1	1313.5	1349.8	1388.4	1434.3	1482.6	1528.4
55°	1069.7	1079.3	1096.2	1139.7	1192.8	1233.9	1277.3	1325.6	1369.1	1422.2	1475.3
57.5°	980.3	987.6	1014.1	1057.6	1113.1	1163.8	1209.7	1255.6	1308.7	1361.8	1417.4
60°	888.6	898.2	929.6	973.1	1033.5	1086.6	1139.7	1188.0	1243.5	1299.1	1357.0
62.5°	801.6	808.9	845.1	895.8	956.2	1014.1	1067.3	1125.2	1185.6	1238.7	1296.6
65°	709.9	722.0	763.0	808.9	878.9	936.9	997.2	1060.0	1122.8	1180.7	1236.3
67.5°	625.4	632.6	676.1	729.2	799.2	864.4	927.2	994.8	1060.0	1120.4	1175.9
70°	526.4	550.5	594.0	649.5	724.4	792.0	859.6	929.6	999.6	1062.4	1115.5
72.5°	444.3	463.6	511.9	572.3	644.7	724.4	794.4	869.3	939.3	1004.5	1060.0
75°	357.4	376.7	432.2	499.8	574.7	659.2	731.6	808.9	881.3	946.5	1004.5
77.5°	272.9	297.0	357.4	427.4	509.5	596.4	671.3	748.5	823.4	893.4	951.4
80°	195.6	222.1	287.3	367.0	446.7	533.6	615.7	693.0	767.8	837.9	898.2
82.5°	125.6	154.5	224.6	304.2	388.8	475.7	560.2	637.5	712.3	782.3	845.1
85°	67.6	99.0	171.4	251.1	335.6	422.6	507.1	589.2	661.6	726.8	794.4
87.5°	19.3	58.0	128.0	207.7	294.6	374.3	456.4	538.5	610.9	680.9	741.3
90°	2.4	33.8	96.6	171.4	255.9	333.2	415.3	492.6	565.0	635.0	695.4
92.5°	2.4	21.7	74.9	142.5	219.7	299.4	381.5	456.4	524.0	594.0	654.4
95°	2.4	16.9	60.4	120.7	193.2	268.0	345.3	417.7	487.8	552.9	613.3
97.5°	2.4	12.1	48.3	103.8	169.0	239.0	313.9	386.3	453.9	516.7	572.3
100°	2.4	9.7	38.6	89.3	147.3	214.9	282.5	352.5	417.7	478.1	536.0
102.5°	2.4	7.2	33.8	74.9	130.4	190.8	255.9	321.1	383.9	441.9	499.8
105°	2.4	7.2	29.0	65.2	115.9	171.4	231.8	294.6	352.5	408.1	461.2
107.5°	2.4	4.8	24.1	55.5	101.4	154.5	210.1	270.4	323.6	376.7	427.4
110°	2.4	4.8	19.3	50.7	89.3	137.6	190.8	246.3	297.0	347.7	396.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.4	4.8	16.9	43.5	77.3	123.1	171.4	222.1	270.4	321.1	364.6
115°	2.4	4.8	14.5	38.6	72.4	106.2	154.5	200.4	248.7	294.6	335.6
117.5°	2.4	4.8	12.1	31.4	62.8	96.6	135.2	181.1	224.6	268.0	306.7
120°	2.4	4.8	9.7	29.0	55.5	86.9	120.7	161.8	202.8	243.9	284.9
122.5°	2.4	2.4	9.7	24.1	48.3	77.3	111.1	142.5	181.1	219.7	255.9
125°	2.4	2.4	9.7	21.7	41.0	70.0	99.0	128.0	161.8	195.6	227.0
127.5°	2.4	2.4	7.2	16.9	36.2	60.4	86.9	118.3	142.5	173.9	205.2
130°	2.4	2.4	7.2	14.5	31.4	50.7	77.3	103.8	132.8	154.5	181.1
132.5°	2.4	2.4	7.2	12.1	24.1	41.0	65.2	89.3	115.9	140.0	161.8
135°	2.4	2.4	4.8	9.7	19.3	33.8	53.1	74.9	101.4	125.6	147.3
137.5°	2.4	2.4	4.8	9.7	14.5	29.0	41.0	60.4	84.5	106.2	128.0
140°	2.4	2.4	4.8	7.2	12.1	21.7	33.8	48.3	67.6	86.9	111.1
142.5°	2.4	2.4	2.4	7.2	9.7	16.9	26.6	38.6	53.1	70.0	89.3
145°	2.4	2.4	2.4	7.2	9.7	12.1	21.7	31.4	41.0	53.1	70.0
147.5°	2.4	2.4	2.4	4.8	7.2	9.7	16.9	24.1	31.4	41.0	50.7
150°	2.4	2.4	2.4	4.8	7.2	9.7	12.1	16.9	24.1	33.8	41.0
152.5°	2.4	2.4	2.4	4.8	4.8	7.2	9.7	12.1	16.9	24.1	29.0
155°	2.4	2.4	2.4	2.4	4.8	7.2	9.7	9.7	12.1	16.9	21.7
157.5°	2.4	2.4	2.4	2.4	4.8	4.8	7.2	7.2	9.7	9.7	14.5
160°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	7.2	7.2	7.2	7.2
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	7.2	7.2
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2272.1	2274.6	2281.8	2281.8	2277.0	2277.0	2274.6	2272.1	2274.6	2279.4	2279.4
5°	2267.3	2269.7	2277.0	2279.4	2274.6	2272.1	2272.1	2269.7	2272.1	2277.0	2277.0
7.5°	2257.7	2260.1	2267.3	2269.7	2264.9	2264.9	2262.5	2260.1	2264.9	2267.3	2267.3
10°	2243.2	2245.6	2255.2	2257.7	2255.2	2252.8	2252.8	2250.4	2252.8	2257.7	2257.7
12.5°	2223.9	2228.7	2240.8	2240.8	2240.8	2238.3	2238.3	2235.9	2238.3	2243.2	2240.8
15°	2202.1	2211.8	2221.4	2226.3	2226.3	2226.3	2223.9	2221.4	2226.3	2228.7	2226.3
17.5°	2178.0	2190.0	2204.5	2209.4	2209.4	2211.8	2209.4	2207.0	2211.8	2211.8	2209.4
20°	2153.8	2165.9	2180.4	2185.2	2190.0	2192.5	2192.5	2190.0	2192.5	2194.9	2192.5
22.5°	2122.4	2136.9	2153.8	2161.1	2165.9	2170.7	2170.7	2170.7	2173.1	2175.6	2170.7
25°	2088.6	2105.5	2124.9	2132.1	2141.8	2144.2	2146.6	2146.6	2149.0	2151.4	2144.2
27.5°	2052.4	2071.7	2091.0	2103.1	2110.4	2115.2	2115.2	2117.6	2120.0	2122.4	2115.2
30°	2009.0	2037.9	2054.8	2064.5	2074.1	2081.4	2083.8	2086.2	2088.6	2091.0	2083.8
32.5°	1970.3	1994.5	2016.2	2028.3	2040.3	2050.0	2052.4	2052.4	2057.2	2057.2	2050.0
35°	1924.4	1953.4	1975.1	1987.2	2001.7	2009.0	2013.8	2013.8	2018.6	2018.6	2011.4
37.5°	1878.6	1907.5	1931.7	1946.2	1963.1	1972.7	1975.1	1975.1	1980.0	1980.0	1970.3
40°	1830.3	1861.7	1888.2	1905.1	1919.6	1931.7	1934.1	1941.3	1941.3	1938.9	1929.3
42.5°	1782.0	1811.0	1839.9	1859.2	1878.6	1890.6	1895.5	1897.9	1897.9	1895.5	1888.2
45°	1728.9	1762.7	1789.2	1813.4	1832.7	1844.8	1852.0	1854.4	1854.4	1849.6	1842.3
47.5°	1678.2	1712.0	1738.5	1765.1	1784.4	1798.9	1806.1	1808.5	1806.1	1803.7	1796.5
50°	1625.0	1663.7	1690.2	1716.8	1736.1	1748.2	1760.2	1762.7	1760.2	1757.8	1743.3
52.5°	1569.5	1610.5	1639.5	1666.1	1687.8	1702.3	1712.0	1714.4	1714.4	1709.5	1699.9
55°	1514.0	1550.2	1586.4	1615.4	1639.5	1654.0	1666.1	1670.9	1666.1	1661.2	1649.2
57.5°	1463.3	1497.1	1533.3	1564.7	1588.8	1608.1	1617.8	1622.6	1617.8	1610.5	1598.5
60°	1402.9	1439.1	1480.2	1509.1	1535.7	1555.0	1559.8	1569.5	1564.7	1557.4	1545.3
62.5°	1344.9	1388.4	1424.6	1460.8	1482.6	1504.3	1514.0	1518.8	1514.0	1506.7	1494.6
65°	1284.6	1332.9	1369.1	1405.3	1429.4	1451.2	1463.3	1465.7	1460.8	1453.6	1441.5
67.5°	1229.0	1274.9	1313.5	1352.2	1373.9	1395.6	1407.7	1412.5	1407.7	1398.1	1386.0
70°	1173.5	1219.4	1265.3	1294.2	1320.8	1344.9	1352.2	1359.4	1354.6	1344.9	1330.4
72.5°	1118.0	1166.3	1212.1	1241.1	1270.1	1291.8	1301.5	1308.7	1303.9	1294.2	1277.3
75°	1060.0	1110.7	1156.6	1188.0	1217.0	1238.7	1248.4	1255.6	1250.8	1241.1	1221.8
77.5°	1006.9	1057.6	1101.1	1134.9	1163.8	1183.2	1200.1	1202.5	1197.6	1188.0	1168.7
80°	951.4	1002.1	1047.9	1081.7	1110.7	1130.0	1142.1	1149.4	1144.5	1134.9	1115.5
82.5°	903.1	948.9	994.8	1028.6	1057.6	1081.7	1091.4	1098.6	1096.2	1081.7	1067.3
85°	849.9	903.1	939.3	975.5	1004.5	1028.6	1035.9	1045.5	1043.1	1031.0	1011.7
87.5°	796.8	849.9	893.4	929.6	956.2	975.5	987.6	992.4	990.0	977.9	956.2
90°	753.4	801.6	845.1	883.7	905.5	927.2	939.3	941.7	941.7	927.2	910.3
92.5°	712.3	758.2	801.6	837.9	864.4	883.7	893.4	898.2	895.8	883.7	864.4
95°	666.4	717.1	758.2	794.4	821.0	840.3	849.9	854.8	852.4	840.3	821.0
97.5°	627.8	673.7	714.7	748.5	775.1	794.4	804.1	808.9	808.9	796.8	777.5
100°	589.2	635.0	673.7	707.5	731.6	750.9	760.6	763.0	760.6	750.9	731.6
102.5°	550.5	594.0	632.6	664.0	690.6	707.5	717.1	719.6	719.6	707.5	688.2
105°	511.9	555.4	591.6	625.4	647.1	664.0	671.3	678.5	676.1	666.4	647.1
107.5°	475.7	519.1	552.9	584.3	606.1	623.0	630.2	637.5	635.0	625.4	606.1
110°	441.9	482.9	514.3	545.7	565.0	581.9	594.0	596.4	591.6	581.9	565.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.5	446.7	478.1	507.1	528.8	540.9	550.5	555.4	550.5	540.9	528.8
115°	376.7	412.9	444.3	470.8	490.2	504.7	511.9	516.7	511.9	502.2	490.2
117.5°	345.3	379.1	410.5	437.0	453.9	466.0	473.3	478.1	473.3	466.0	453.9
120°	318.7	347.7	376.7	400.8	420.1	429.8	437.0	441.9	439.5	429.8	417.7
122.5°	287.3	318.7	345.3	369.4	386.3	396.0	400.8	405.7	403.2	396.0	383.9
125°	260.8	287.3	313.9	335.6	352.5	362.2	367.0	371.8	369.4	362.2	347.7
127.5°	231.8	260.8	282.5	304.2	316.3	330.8	333.2	338.0	335.6	328.4	316.3
130°	210.1	231.8	253.5	272.9	287.3	297.0	301.8	304.2	299.4	294.6	282.5
132.5°	183.5	207.7	227.0	243.9	253.5	263.2	268.0	270.4	270.4	263.2	253.5
135°	164.2	181.1	198.0	214.9	224.6	234.2	239.0	241.5	239.0	234.2	224.6
137.5°	147.3	161.8	173.9	188.3	200.4	205.2	210.1	210.1	207.7	205.2	198.0
140°	128.0	144.9	156.9	166.6	176.3	178.7	183.5	183.5	181.1	178.7	173.9
142.5°	108.7	123.1	135.2	147.3	154.5	159.4	161.8	164.2	161.8	159.4	152.1
145°	86.9	103.8	115.9	123.1	132.8	135.2	137.6	140.0	137.6	135.2	128.0
147.5°	67.6	82.1	94.2	103.8	111.1	113.5	115.9	118.3	115.9	111.1	108.7
150°	48.3	60.4	74.9	84.5	89.3	94.2	94.2	94.2	96.6	91.8	86.9
152.5°	38.6	43.5	53.1	62.8	70.0	72.4	74.9	74.9	72.4	72.4	67.6
155°	26.6	31.4	38.6	45.9	53.1	55.5	58.0	58.0	55.5	55.5	53.1
157.5°	16.9	21.7	26.6	31.4	38.6	41.0	43.5	43.5	43.5	41.0	38.6
160°	9.7	12.1	14.5	19.3	24.1	26.6	29.0	29.0	29.0	29.0	26.6
162.5°	7.2	7.2	7.2	9.7	12.1	14.5	16.9	16.9	16.9	16.9	14.5
165°	4.8	4.8	4.8	4.8	4.8	7.2	9.7	9.7	9.7	9.7	9.7
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-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2277.0	2277.0	2279.4	2274.6	2260.1	2262.5	2262.5	2272.1	2277.0	2279.4	2291.5
5°	2272.1	2272.1	2277.0	2269.7	2257.7	2257.7	2257.7	2267.3	2269.7	2274.6	2284.2
7.5°	2264.9	2264.9	2267.3	2260.1	2245.6	2245.6	2243.2	2252.8	2257.7	2260.1	2269.7
10°	2252.8	2252.8	2255.2	2248.0	2231.1	2231.1	2228.7	2235.9	2238.3	2243.2	2250.4
12.5°	2235.9	2235.9	2235.9	2228.7	2211.8	2209.4	2207.0	2214.2	2214.2	2216.6	2223.9
15°	2221.4	2216.6	2216.6	2209.4	2192.5	2187.6	2182.8	2185.2	2190.0	2187.6	2192.5
17.5°	2204.5	2199.7	2194.9	2187.6	2165.9	2158.7	2153.8	2156.2	2153.8	2151.4	2156.2
20°	2185.2	2178.0	2175.6	2163.5	2141.8	2129.7	2120.0	2115.2	2117.6	2110.4	2112.8
22.5°	2163.5	2153.8	2149.0	2134.5	2112.8	2098.3	2086.2	2076.6	2074.1	2064.5	2066.9
25°	2136.9	2124.9	2117.6	2105.5	2081.4	2064.5	2050.0	2035.5	2028.3	2016.2	2013.8
27.5°	2105.5	2093.5	2083.8	2071.7	2047.6	2025.9	2009.0	1989.6	1980.0	1965.5	1958.2
30°	2074.1	2059.7	2045.2	2035.5	2009.0	1984.8	1958.2	1941.3	1926.9	1910.0	1897.9
32.5°	2035.5	2021.0	2006.5	1992.1	1967.9	1938.9	1917.2	1890.6	1873.7	1854.4	1839.9
35°	1996.9	1977.6	1963.1	1943.8	1922.0	1888.2	1861.7	1835.1	1813.4	1791.6	1774.7
37.5°	1953.4	1938.9	1917.2	1900.3	1873.7	1839.9	1811.0	1777.2	1757.8	1728.9	1707.1
40°	1912.4	1895.5	1873.7	1852.0	1825.4	1786.8	1755.4	1716.8	1695.1	1661.2	1639.5
42.5°	1871.3	1847.2	1825.4	1801.3	1772.3	1736.1	1697.5	1658.8	1629.9	1598.5	1567.1
45°	1825.4	1798.9	1772.3	1745.8	1716.8	1680.6	1639.5	1598.5	1562.3	1533.3	1494.6
47.5°	1777.2	1750.6	1719.2	1690.2	1658.8	1622.6	1579.2	1535.7	1497.1	1463.3	1422.2
50°	1728.9	1702.3	1668.5	1637.1	1600.9	1564.7	1518.8	1468.1	1427.0	1383.6	1347.4
52.5°	1678.2	1651.6	1620.2	1579.2	1540.5	1504.3	1456.0	1402.9	1357.0	1320.8	1274.9
55°	1627.4	1600.9	1564.7	1523.6	1485.0	1439.1	1393.2	1340.1	1289.4	1245.9	1200.1
57.5°	1574.3	1550.2	1509.1	1475.3	1427.0	1378.7	1330.4	1279.7	1224.2	1173.5	1120.4
60°	1521.2	1494.6	1456.0	1415.0	1366.7	1318.4	1267.7	1212.1	1154.2	1098.6	1050.4
62.5°	1472.9	1439.1	1402.9	1359.4	1308.7	1262.8	1204.9	1144.5	1086.6	1028.6	970.7
65°	1417.4	1381.2	1347.4	1303.9	1250.8	1197.6	1139.7	1079.3	1016.5	953.8	895.8
67.5°	1361.8	1325.6	1289.4	1245.9	1190.4	1134.9	1074.5	1014.1	944.1	883.7	816.1
70°	1306.3	1277.3	1231.4	1185.6	1134.9	1074.5	1014.1	948.9	876.5	811.3	741.3
72.5°	1250.8	1221.8	1175.9	1127.6	1079.3	1016.5	951.4	886.2	818.6	743.7	668.8
75°	1197.6	1161.4	1120.4	1074.5	1023.8	958.6	893.4	825.8	746.1	676.1	598.8
77.5°	1146.9	1113.1	1072.1	1021.4	965.8	903.1	835.5	765.4	685.7	610.9	526.4
80°	1091.4	1057.6	1016.5	965.8	910.3	849.9	777.5	705.1	627.8	545.7	458.8
82.5°	1038.3	1006.9	961.0	915.1	854.8	794.4	722.0	649.5	567.4	487.8	403.2
85°	982.7	951.4	907.9	859.6	801.6	736.5	668.8	596.4	514.3	432.2	347.7
87.5°	934.5	898.2	854.8	806.5	748.5	685.7	620.6	543.3	463.6	383.9	297.0
90°	883.7	849.9	806.5	758.2	700.2	637.5	569.8	497.4	420.1	338.0	255.9
92.5°	840.3	804.1	763.0	714.7	656.8	596.4	528.8	456.4	381.5	301.8	222.1
95°	796.8	760.6	722.0	673.7	615.7	555.4	487.8	417.7	345.3	268.0	193.2
97.5°	748.5	717.1	678.5	632.6	574.7	516.7	451.5	383.9	313.9	239.0	169.0
100°	709.9	673.7	637.5	589.2	536.0	480.5	415.3	350.1	282.5	212.5	147.3
102.5°	666.4	632.6	596.4	550.5	497.4	441.9	381.5	318.7	255.9	190.8	128.0
105°	625.4	594.0	555.4	511.9	461.2	408.1	350.1	292.2	231.8	169.0	113.5
107.5°	584.3	552.9	516.7	475.7	427.4	374.3	321.1	263.2	207.7	152.1	101.4
110°	543.3	514.3	480.5	439.5	393.6	345.3	294.6	241.5	185.9	135.2	89.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	507.1	478.1	444.3	405.7	362.2	316.3	268.0	217.3	166.6	120.7	77.3
115°	470.8	444.3	410.5	376.7	333.2	289.8	243.9	195.6	149.7	108.7	67.6
117.5°	434.6	408.1	376.7	342.9	304.2	263.2	219.7	173.9	135.2	96.6	60.4
120°	398.4	374.3	345.3	313.9	280.1	239.0	195.6	156.9	120.7	84.5	53.1
122.5°	364.6	342.9	316.3	287.3	251.1	212.5	176.3	142.5	108.7	74.9	43.5
125°	333.2	311.5	287.3	258.4	224.6	190.8	159.4	128.0	94.2	65.2	36.2
127.5°	301.8	280.1	255.9	229.4	202.8	171.4	142.5	113.5	84.5	58.0	31.4
130°	270.4	251.1	229.4	207.7	181.1	152.1	128.0	99.0	72.4	45.9	26.6
132.5°	239.0	224.6	205.2	183.5	159.4	137.6	111.1	86.9	62.8	41.0	24.1
135°	212.5	198.0	181.1	161.8	142.5	120.7	96.6	74.9	53.1	33.8	19.3
137.5°	188.3	176.3	159.4	142.5	125.6	103.8	84.5	62.8	43.5	29.0	14.5
140°	166.6	154.5	140.0	123.1	108.7	89.3	70.0	50.7	38.6	24.1	12.1
142.5°	144.9	132.8	120.7	106.2	91.8	74.9	58.0	43.5	31.4	19.3	12.1
145°	123.1	113.5	101.4	89.3	74.9	60.4	48.3	36.2	24.1	14.5	9.7
147.5°	101.4	94.2	82.1	72.4	60.4	48.3	38.6	29.0	19.3	12.1	7.2
150°	82.1	74.9	65.2	55.5	48.3	38.6	31.4	21.7	14.5	12.1	7.2
152.5°	62.8	58.0	50.7	45.9	38.6	29.0	21.7	16.9	12.1	9.7	4.8
155°	50.7	45.9	41.0	33.8	29.0	21.7	16.9	12.1	9.7	7.2	4.8
157.5°	36.2	33.8	29.0	24.1	19.3	14.5	12.1	12.1	7.2	4.8	2.4
160°	24.1	21.7	19.3	14.5	12.1	12.1	9.7	7.2	4.8	4.8	2.4
162.5°	14.5	12.1	12.1	12.1	9.7	9.7	7.2	4.8	4.8	2.4	2.4
165°	9.7	9.7	9.7	7.2	7.2	7.2	4.8	2.4	2.4	2.4	2.4
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-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2291.5	2284.2	2293.9	2310.8	2313.2	2310.8	2305.9	2313.2	2322.9	2320.4	2303.5
5°	2286.6	2277.0	2286.6	2303.5	2303.5	2301.1	2298.7	2305.9	2315.6	2313.2	2298.7
7.5°	2272.1	2262.5	2272.1	2286.6	2289.0	2284.2	2284.2	2291.5	2301.1	2298.7	2286.6
10°	2252.8	2243.2	2248.0	2264.9	2269.7	2264.9	2264.9	2272.1	2284.2	2281.8	2267.3
12.5°	2223.9	2216.6	2221.4	2235.9	2240.8	2238.3	2235.9	2245.6	2257.7	2257.7	2243.2
15°	2192.5	2182.8	2187.6	2204.5	2207.0	2202.1	2204.5	2211.8	2226.3	2226.3	2214.2
17.5°	2156.2	2144.2	2151.4	2163.5	2165.9	2165.9	2165.9	2175.6	2192.5	2190.0	2180.4
20°	2115.2	2098.3	2103.1	2115.2	2120.0	2120.0	2120.0	2136.9	2149.0	2149.0	2139.3
22.5°	2066.9	2054.8	2054.8	2066.9	2074.1	2071.7	2071.7	2086.2	2103.1	2100.7	2100.7
25°	2011.4	2001.7	1996.9	2011.4	2013.8	2016.2	2021.0	2035.5	2054.8	2054.8	2057.2
27.5°	1953.4	1943.8	1941.3	1953.4	1955.8	1958.2	1963.1	1980.0	1999.3	2001.7	2006.5
30°	1897.9	1883.4	1878.6	1888.2	1893.1	1895.5	1895.5	1922.0	1938.9	1946.2	1955.8
32.5°	1832.7	1818.2	1806.1	1823.0	1825.4	1830.3	1832.7	1859.2	1878.6	1890.6	1905.1
35°	1767.5	1743.3	1738.5	1750.6	1755.4	1757.8	1762.7	1791.6	1818.2	1827.9	1847.2
37.5°	1695.1	1678.2	1663.7	1675.7	1680.6	1683.0	1697.5	1724.0	1750.6	1765.1	1784.4
40°	1627.4	1605.7	1593.6	1600.9	1605.7	1608.1	1625.0	1654.0	1685.4	1702.3	1726.4
42.5°	1552.6	1523.6	1514.0	1521.2	1523.6	1530.9	1545.3	1584.0	1615.4	1639.5	1658.8
45°	1477.7	1456.0	1434.3	1441.5	1443.9	1448.8	1470.5	1511.5	1545.3	1574.3	1596.1
47.5°	1400.5	1373.9	1352.2	1357.0	1366.7	1369.1	1393.2	1441.5	1472.9	1504.3	1533.3
50°	1323.2	1287.0	1270.1	1270.1	1274.9	1287.0	1318.4	1366.7	1400.5	1436.7	1468.1
52.5°	1243.5	1209.7	1190.4	1192.8	1197.6	1212.1	1241.1	1289.4	1328.0	1366.7	1405.3
55°	1163.8	1127.6	1108.3	1103.5	1108.3	1127.6	1161.4	1212.1	1250.8	1296.6	1337.7
57.5°	1084.2	1040.7	1023.8	1016.5	1021.4	1045.5	1079.3	1132.5	1180.7	1224.2	1272.5
60°	997.2	963.4	934.5	917.6	929.6	961.0	997.2	1052.8	1103.5	1151.8	1204.9
62.5°	922.4	878.9	847.5	830.6	842.7	869.3	920.0	973.1	1028.6	1084.2	1137.3
65°	837.9	794.4	758.2	741.3	753.4	784.7	835.5	893.4	953.8	1009.3	1072.1
67.5°	755.8	709.9	666.4	649.5	664.0	697.8	753.4	818.6	883.7	941.7	1009.3
70°	676.1	625.4	579.5	567.4	577.1	623.0	676.1	741.3	808.9	876.5	946.5
72.5°	603.7	540.9	492.6	478.1	490.2	540.9	601.2	668.8	741.3	813.7	888.6
75°	519.1	461.2	408.1	391.2	405.7	451.5	526.4	598.8	676.1	753.4	823.4
77.5°	451.5	383.9	328.4	301.8	326.0	383.9	456.4	533.6	613.3	693.0	772.7
80°	381.5	311.5	251.1	222.1	248.7	311.5	383.9	468.4	557.8	637.5	709.9
82.5°	318.7	243.9	181.1	149.7	178.7	248.7	328.4	412.9	499.8	579.5	664.0
85°	260.8	183.5	118.3	84.5	125.6	188.3	272.9	359.8	449.1	531.2	613.3
87.5°	212.5	137.6	72.4	36.2	77.3	147.3	227.0	313.9	403.2	485.3	562.6
90°	173.9	99.0	38.6	4.8	45.9	111.1	188.3	272.9	357.4	441.9	519.1
92.5°	142.5	74.9	21.7	2.4	29.0	89.3	161.8	241.5	323.6	405.7	480.5
95°	118.3	58.0	14.5	2.4	21.7	70.0	137.6	214.9	292.2	371.8	446.7
97.5°	101.4	48.3	12.1	2.4	16.9	60.4	118.3	190.8	265.6	340.5	412.9
100°	86.9	38.6	9.7	2.4	14.5	50.7	103.8	169.0	239.0	311.5	381.5
102.5°	74.9	31.4	7.2	2.4	12.1	43.5	91.8	152.1	214.9	284.9	352.5
105°	65.2	26.6	7.2	2.4	9.7	38.6	82.1	135.2	198.0	260.8	326.0
107.5°	55.5	21.7	4.8	2.4	7.2	31.4	72.4	123.1	178.7	239.0	299.4
110°	48.3	19.3	4.8	2.4	7.2	29.0	62.8	111.1	161.8	217.3	275.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	41.0	14.5	4.8	2.4	4.8	24.1	55.5	99.0	147.3	198.0	253.5
115°	36.2	12.1	2.4	2.4	4.8	21.7	50.7	89.3	132.8	181.1	231.8
117.5°	29.0	9.7	2.4	2.4	2.4	16.9	43.5	79.7	120.7	166.6	212.5
120°	24.1	9.7	2.4	2.4	2.4	14.5	38.6	70.0	108.7	149.7	193.2
122.5°	21.7	7.2	2.4	2.4	2.4	12.1	33.8	62.8	96.6	135.2	176.3
125°	19.3	7.2	2.4	2.4	2.4	9.7	29.0	55.5	86.9	120.7	159.4
127.5°	14.5	7.2	2.4	2.4	2.4	7.2	26.6	48.3	77.3	108.7	142.5
130°	12.1	4.8	2.4	2.4	2.4	7.2	21.7	43.5	67.6	96.6	128.0
132.5°	9.7	4.8	2.4	2.4	2.4	4.8	16.9	33.8	58.0	84.5	113.5
135°	9.7	4.8	2.4	2.4	2.4	4.8	12.1	29.0	48.3	72.4	96.6
137.5°	9.7	2.4	2.4	2.4	2.4	4.8	9.7	21.7	38.6	58.0	79.7
140°	7.2	2.4	2.4	2.4	2.4	2.4	7.2	16.9	31.4	48.3	67.6
142.5°	7.2	2.4	2.4	2.4	2.4	2.4	7.2	12.1	24.1	38.6	53.1
145°	4.8	2.4	2.4	2.4	2.4	2.4	4.8	9.7	19.3	29.0	43.5
147.5°	4.8	2.4	2.4	2.4	2.4	2.4	4.8	7.2	14.5	24.1	33.8
150°	4.8	2.4	2.4	2.4	2.4	2.4	4.8	7.2	9.7	16.9	26.6
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	7.2	12.1	16.9
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.2	9.7	12.1
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	7.2	9.7
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	7.2
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2296.3	2279.4	2284.2	2281.8	2286.6	2293.9	2293.9	2291.5	2291.5	2286.6	2281.8
5°	2291.5	2274.6	2281.8	2279.4	2284.2	2291.5	2291.5	2289.0	2289.0	2281.8	2279.4
7.5°	2277.0	2264.9	2269.7	2269.7	2274.6	2281.8	2281.8	2279.4	2279.4	2272.1	2269.7
10°	2262.5	2248.0	2255.2	2255.2	2260.1	2269.7	2269.7	2267.3	2267.3	2260.1	2257.7
12.5°	2238.3	2223.9	2235.9	2238.3	2243.2	2252.8	2250.4	2250.4	2250.4	2243.2	2240.8
15°	2209.4	2199.7	2211.8	2214.2	2221.4	2233.5	2233.5	2233.5	2233.5	2226.3	2223.9
17.5°	2178.0	2170.7	2182.8	2187.6	2197.3	2209.4	2209.4	2211.8	2214.2	2209.4	2207.0
20°	2141.8	2136.9	2149.0	2158.7	2173.1	2185.2	2190.0	2192.5	2197.3	2192.5	2190.0
22.5°	2100.7	2100.7	2117.6	2127.3	2144.2	2156.2	2163.5	2170.7	2175.6	2170.7	2168.3
25°	2054.8	2062.1	2079.0	2095.9	2115.2	2127.3	2134.5	2144.2	2149.0	2146.6	2144.2
27.5°	2011.4	2021.0	2042.8	2059.7	2076.6	2095.9	2103.1	2115.2	2120.0	2120.0	2117.6
30°	1960.7	1975.1	1999.3	2018.6	2040.3	2059.7	2069.3	2081.4	2088.6	2083.8	2086.2
32.5°	1912.4	1936.5	1955.8	1977.6	2001.7	2021.0	2033.1	2047.6	2054.8	2052.4	2054.8
35°	1859.2	1883.4	1910.0	1931.7	1960.7	1980.0	1996.9	2009.0	2018.6	2016.2	2016.2
37.5°	1801.3	1832.7	1859.2	1888.2	1914.8	1936.5	1953.4	1967.9	1977.6	1977.6	1977.6
40°	1745.8	1779.6	1806.1	1839.9	1873.7	1893.1	1912.4	1926.9	1936.5	1938.9	1941.3
42.5°	1685.4	1721.6	1753.0	1789.2	1823.0	1847.2	1868.9	1885.8	1895.5	1900.3	1897.9
45°	1629.9	1663.7	1699.9	1740.9	1772.3	1796.5	1823.0	1842.3	1852.0	1854.4	1856.8
47.5°	1567.1	1605.7	1646.8	1687.8	1719.2	1750.6	1774.7	1794.1	1803.7	1811.0	1811.0
50°	1506.7	1547.8	1593.6	1637.1	1670.9	1702.3	1726.4	1748.2	1760.2	1765.1	1767.5
52.5°	1451.2	1489.8	1538.1	1581.6	1615.4	1646.8	1678.2	1702.3	1714.4	1719.2	1719.2
55°	1383.6	1431.9	1485.0	1526.0	1562.3	1598.5	1629.9	1654.0	1666.1	1673.3	1678.2
57.5°	1320.8	1371.5	1427.0	1470.5	1514.0	1547.8	1576.7	1608.1	1617.8	1627.4	1629.9
60°	1260.4	1311.1	1364.3	1412.5	1456.0	1492.2	1526.0	1552.6	1569.5	1574.3	1579.2
62.5°	1197.6	1250.8	1306.3	1354.6	1400.5	1443.9	1475.3	1499.5	1518.8	1526.0	1530.9
65°	1137.3	1192.8	1248.4	1299.1	1347.4	1390.8	1422.2	1446.3	1465.7	1477.7	1480.2
67.5°	1072.1	1132.5	1190.4	1243.5	1291.8	1337.7	1369.1	1393.2	1412.5	1427.0	1429.4
70°	1011.7	1074.5	1132.5	1190.4	1238.7	1284.6	1318.4	1342.5	1364.3	1373.9	1378.7
72.5°	953.8	1019.0	1079.3	1137.3	1185.6	1231.4	1267.7	1291.8	1313.5	1325.6	1328.0
75°	898.2	963.4	1028.6	1084.2	1134.9	1180.7	1217.0	1243.5	1262.8	1274.9	1279.7
77.5°	842.7	910.3	975.5	1031.0	1084.2	1130.0	1161.4	1192.8	1212.1	1226.6	1226.6
80°	787.2	857.2	924.8	980.3	1033.5	1074.5	1110.7	1142.1	1161.4	1175.9	1175.9
82.5°	738.9	806.5	871.7	927.2	980.3	1026.2	1062.4	1091.4	1113.1	1122.8	1125.2
85°	683.3	758.2	818.6	878.9	929.6	973.1	1009.3	1040.7	1060.0	1069.7	1074.5
87.5°	637.5	709.9	775.1	828.2	878.9	922.4	963.4	990.0	1009.3	1021.4	1026.2
90°	594.0	664.0	729.2	782.3	835.5	876.5	915.1	941.7	963.4	973.1	977.9
92.5°	555.4	625.4	688.2	741.3	792.0	837.9	874.1	900.6	920.0	929.6	936.9
95°	519.1	586.7	647.1	705.1	753.4	794.4	833.0	859.6	881.3	888.6	895.8
97.5°	482.9	548.1	608.5	664.0	714.7	753.4	789.6	816.1	833.0	845.1	852.4
100°	451.5	514.3	572.3	625.4	673.7	709.9	748.5	772.7	789.6	799.2	808.9
102.5°	417.7	480.5	536.0	586.7	637.5	671.3	707.5	731.6	746.1	763.0	763.0
105°	388.8	446.7	502.2	550.5	594.0	635.0	666.4	690.6	707.5	719.6	719.6
107.5°	357.4	415.3	468.4	519.1	560.2	598.8	627.8	649.5	668.8	676.1	683.3
110°	333.2	383.9	437.0	485.3	524.0	560.2	589.2	613.3	630.2	637.5	642.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	304.2	357.4	405.7	451.5	490.2	524.0	552.9	572.3	589.2	598.8	601.2
115°	280.1	330.8	374.3	417.7	458.8	487.8	514.3	533.6	550.5	557.8	562.6
117.5°	258.4	304.2	347.7	383.9	422.6	453.9	480.5	497.4	511.9	521.6	526.4
120°	236.6	280.1	318.7	354.9	391.2	420.1	444.3	461.2	478.1	485.3	485.3
122.5°	214.9	255.9	292.2	326.0	359.8	386.3	412.9	427.4	441.9	449.1	449.1
125°	195.6	234.2	268.0	299.4	330.8	354.9	376.7	393.6	408.1	412.9	412.9
127.5°	176.3	212.5	243.9	272.9	299.4	323.6	345.3	362.2	374.3	379.1	379.1
130°	159.4	190.8	219.7	248.7	275.3	294.6	316.3	330.8	338.0	345.3	347.7
132.5°	142.5	171.4	198.0	222.1	248.7	268.0	284.9	299.4	306.7	313.9	316.3
135°	125.6	152.1	176.3	200.4	222.1	241.5	255.9	268.0	277.7	282.5	284.9
137.5°	106.2	135.2	156.9	176.3	200.4	214.9	231.8	239.0	248.7	253.5	253.5
140°	89.3	111.1	135.2	154.5	173.9	188.3	202.8	214.9	222.1	224.6	224.6
142.5°	72.4	91.8	111.1	135.2	152.1	164.2	178.7	188.3	193.2	195.6	198.0
145°	58.0	72.4	89.3	111.1	130.4	144.9	152.1	161.8	166.6	169.0	171.4
147.5°	43.5	58.0	72.4	86.9	106.2	120.7	128.0	137.6	142.5	144.9	144.9
150°	33.8	43.5	53.1	67.6	82.1	99.0	108.7	115.9	118.3	120.7	120.7
152.5°	24.1	33.8	41.0	50.7	60.4	74.9	89.3	94.2	96.6	99.0	99.0
155°	16.9	24.1	29.0	36.2	43.5	55.5	67.6	74.9	77.3	79.7	79.7
157.5°	12.1	16.9	19.3	26.6	31.4	36.2	45.9	58.0	60.4	60.4	60.4
160°	7.2	9.7	12.1	16.9	19.3	24.1	29.0	36.2	43.5	43.5	43.5
162.5°	4.8	7.2	7.2	9.7	9.7	14.5	16.9	19.3	26.6	29.0	29.0
165°	2.4	4.8	4.8	4.8	4.8	4.8	7.2	7.2	12.1	14.5	14.5
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2284.2	2289.0	2286.6	2286.6	2286.6	2291.5	2286.6	2264.9	2269.7	2274.6	2279.4
5°	2281.8	2284.2	2284.2	2281.8	2281.8	2286.6	2281.8	2260.1	2264.9	2269.7	2272.1
7.5°	2272.1	2274.6	2274.6	2274.6	2272.1	2277.0	2269.7	2250.4	2250.4	2255.2	2257.7
10°	2260.1	2264.9	2262.5	2260.1	2260.1	2260.1	2255.2	2233.5	2233.5	2235.9	2238.3
12.5°	2245.6	2245.6	2245.6	2243.2	2240.8	2240.8	2235.9	2214.2	2211.8	2216.6	2214.2
15°	2226.3	2231.1	2226.3	2223.9	2219.0	2219.0	2211.8	2190.0	2185.2	2187.6	2185.2
17.5°	2209.4	2211.8	2207.0	2202.1	2197.3	2194.9	2187.6	2163.5	2156.2	2158.7	2153.8
20°	2192.5	2192.5	2187.6	2182.8	2175.6	2168.3	2158.7	2134.5	2122.4	2122.4	2112.8
22.5°	2170.7	2170.7	2165.9	2158.7	2151.4	2141.8	2132.1	2108.0	2088.6	2083.8	2076.6
25°	2146.6	2144.2	2141.8	2134.5	2120.0	2110.4	2100.7	2074.1	2052.4	2042.8	2030.7
27.5°	2117.6	2117.6	2110.4	2103.1	2088.6	2076.6	2064.5	2040.3	2011.4	1999.3	1982.4
30°	2086.2	2086.2	2079.0	2069.3	2054.8	2040.3	2025.9	1996.9	1967.9	1951.0	1931.7
32.5°	2054.8	2052.4	2045.2	2035.5	2021.0	1999.3	1987.2	1958.2	1924.4	1905.1	1878.6
35°	2016.2	2013.8	2006.5	1994.5	1975.1	1958.2	1938.9	1912.4	1873.7	1849.6	1820.6
37.5°	1977.6	1975.1	1970.3	1953.4	1934.1	1914.8	1890.6	1864.1	1827.9	1796.5	1767.5
40°	1938.9	1936.5	1926.9	1914.8	1890.6	1866.5	1842.3	1815.8	1777.2	1740.9	1709.5
42.5°	1897.9	1895.5	1883.4	1868.9	1842.3	1818.2	1789.2	1760.2	1721.6	1678.2	1646.8
45°	1856.8	1852.0	1839.9	1823.0	1794.1	1767.5	1738.5	1704.7	1666.1	1625.0	1584.0
47.5°	1813.4	1806.1	1794.1	1769.9	1745.8	1716.8	1683.0	1646.8	1608.1	1562.3	1518.8
50°	1765.1	1760.2	1745.8	1724.0	1695.1	1666.1	1627.4	1591.2	1545.3	1501.9	1448.8
52.5°	1719.2	1709.5	1697.5	1673.3	1644.3	1613.0	1571.9	1528.4	1482.6	1441.5	1386.0
55°	1670.9	1666.1	1649.2	1629.9	1593.6	1557.4	1518.8	1472.9	1422.2	1373.9	1320.8
57.5°	1625.0	1615.4	1600.9	1574.3	1542.9	1506.7	1465.7	1417.4	1361.8	1311.1	1253.2
60°	1579.2	1564.7	1547.8	1523.6	1489.8	1451.2	1407.7	1357.0	1301.5	1245.9	1185.6
62.5°	1528.4	1516.4	1497.1	1472.9	1439.1	1398.1	1352.2	1299.1	1245.9	1188.0	1122.8
65°	1477.7	1465.7	1446.3	1422.2	1388.4	1342.5	1294.2	1241.1	1180.7	1125.2	1055.2
67.5°	1427.0	1415.0	1393.2	1366.7	1332.9	1289.4	1238.7	1183.2	1122.8	1062.4	990.0
70°	1376.3	1361.8	1342.5	1313.5	1279.7	1233.9	1183.2	1125.2	1064.8	999.6	927.2
72.5°	1325.6	1313.5	1289.4	1262.8	1226.6	1180.7	1130.0	1072.1	1009.3	941.7	869.3
75°	1274.9	1260.4	1243.5	1212.1	1173.5	1130.0	1076.9	1019.0	951.4	886.2	811.3
77.5°	1224.2	1212.1	1190.4	1159.0	1122.8	1076.9	1023.8	965.8	898.2	830.6	750.9
80°	1173.5	1159.0	1142.1	1113.1	1072.1	1026.2	970.7	912.7	845.1	775.1	695.4
82.5°	1122.8	1108.3	1089.0	1060.0	1021.4	975.5	922.4	859.6	792.0	719.6	644.7
85°	1072.1	1060.0	1038.3	1009.3	968.3	922.4	869.3	813.7	741.3	668.8	594.0
87.5°	1021.4	1009.3	987.6	958.6	920.0	874.1	821.0	763.0	693.0	625.4	543.3
90°	973.1	963.4	941.7	912.7	874.1	828.2	779.9	717.1	649.5	581.9	504.7
92.5°	929.6	920.0	900.6	871.7	837.9	787.2	738.9	678.5	610.9	540.9	466.0
95°	891.0	878.9	859.6	833.0	792.0	748.5	700.2	639.9	574.7	504.7	432.2
97.5°	847.5	835.5	816.1	787.2	753.4	707.5	659.2	601.2	536.0	470.8	398.4
100°	804.1	792.0	770.3	746.1	712.3	666.4	620.6	562.6	502.2	439.5	369.4
102.5°	760.6	748.5	729.2	705.1	671.3	630.2	584.3	528.8	468.4	405.7	340.5
105°	719.6	707.5	688.2	664.0	632.6	591.6	543.3	495.0	437.0	376.7	313.9
107.5°	678.5	666.4	649.5	625.4	594.0	555.4	509.5	458.8	405.7	347.7	287.3
110°	637.5	627.8	608.5	586.7	555.4	516.7	475.7	427.4	374.3	321.1	263.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	598.8	589.2	569.8	545.7	519.1	482.9	441.9	396.0	345.3	294.6	239.0
115°	560.2	548.1	531.2	509.5	482.9	449.1	410.5	369.4	318.7	270.4	219.7
117.5°	521.6	511.9	495.0	473.3	449.1	415.3	379.1	340.5	292.2	246.3	200.4
120°	482.9	475.7	458.8	439.5	415.3	383.9	350.1	311.5	268.0	224.6	181.1
122.5°	446.7	439.5	422.6	405.7	381.5	352.5	321.1	284.9	246.3	205.2	166.6
125°	412.9	403.2	388.8	371.8	350.1	323.6	292.2	258.4	222.1	185.9	149.7
127.5°	376.7	369.4	359.8	340.5	318.7	294.6	265.6	236.6	202.8	169.0	135.2
130°	347.7	338.0	326.0	311.5	292.2	268.0	241.5	212.5	183.5	152.1	118.3
132.5°	313.9	304.2	294.6	280.1	263.2	241.5	217.3	190.8	164.2	135.2	106.2
135°	282.5	275.3	265.6	251.1	234.2	217.3	193.2	169.0	144.9	118.3	94.2
137.5°	253.5	246.3	236.6	227.0	210.1	193.2	171.4	149.7	128.0	103.8	82.1
140°	224.6	219.7	210.1	200.4	185.9	169.0	149.7	130.4	111.1	89.3	70.0
142.5°	195.6	190.8	183.5	173.9	161.8	147.3	130.4	113.5	94.2	77.3	60.4
145°	169.0	166.6	159.4	149.7	140.0	125.6	111.1	96.6	79.7	65.2	48.3
147.5°	142.5	140.0	135.2	128.0	118.3	106.2	94.2	79.7	67.6	53.1	38.6
150°	118.3	115.9	113.5	103.8	99.0	86.9	77.3	65.2	55.5	41.0	31.4
152.5°	96.6	96.6	91.8	84.5	79.7	70.0	62.8	53.1	43.5	33.8	24.1
155°	77.3	74.9	72.4	67.6	62.8	55.5	48.3	41.0	33.8	24.1	16.9
157.5°	60.4	58.0	55.5	50.7	45.9	43.5	36.2	29.0	21.7	16.9	12.1
160°	43.5	41.0	38.6	36.2	33.8	29.0	24.1	19.3	14.5	9.7	7.2
162.5°	29.0	26.6	26.6	24.1	21.7	16.9	14.5	12.1	9.7	7.2	4.8
165°	14.5	14.5	12.1	12.1	9.7	7.2	7.2	7.2	4.8	4.8	2.4
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-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2277.0	2277.0	2286.6	2284.2	2277.0	2291.5	2308.4
5°	2269.7	2269.7	2277.0	2277.0	2269.7	2284.2	2298.7
7.5°	2257.7	2255.2	2262.5	2262.5	2252.8	2264.9	2281.8
10°	2235.9	2233.5	2240.8	2240.8	2231.1	2243.2	2257.7
12.5°	2211.8	2207.0	2214.2	2211.8	2202.1	2214.2	2228.7
15°	2180.4	2178.0	2182.8	2178.0	2168.3	2180.4	2194.9
17.5°	2149.0	2141.8	2144.2	2144.2	2127.3	2139.3	2151.4
20°	2108.0	2098.3	2100.7	2098.3	2086.2	2093.5	2108.0
22.5°	2066.9	2052.4	2052.4	2050.0	2035.5	2045.2	2057.2
25°	2016.2	1999.3	1999.3	1996.9	1980.0	1987.2	1999.3
27.5°	1965.5	1948.6	1941.3	1938.9	1922.0	1922.0	1938.9
30°	1912.4	1888.2	1883.4	1876.1	1859.2	1859.2	1873.7
32.5°	1861.7	1827.9	1818.2	1808.5	1791.6	1789.2	1806.1
35°	1794.1	1767.5	1750.6	1740.9	1721.6	1716.8	1731.3
37.5°	1738.5	1704.7	1680.6	1668.5	1649.2	1641.9	1661.2
40°	1678.2	1641.9	1610.5	1603.3	1574.3	1564.7	1581.6
42.5°	1610.5	1571.9	1540.5	1526.0	1504.3	1494.6	1497.1
45°	1542.9	1501.9	1468.1	1448.8	1427.0	1410.1	1419.8
47.5°	1472.9	1436.7	1395.6	1366.7	1340.1	1328.0	1332.9
50°	1402.9	1359.4	1320.8	1289.4	1258.0	1243.5	1253.2
52.5°	1332.9	1287.0	1243.5	1209.7	1173.5	1159.0	1161.4
55°	1265.3	1217.0	1166.3	1130.0	1096.2	1074.5	1069.7
57.5°	1197.6	1144.5	1091.4	1050.4	1006.9	987.6	980.3
60°	1125.2	1069.7	1014.1	965.8	920.0	898.2	888.6
62.5°	1057.6	997.2	934.5	883.7	837.9	808.9	801.6
65°	992.4	922.4	859.6	801.6	750.9	719.6	709.9
67.5°	922.4	849.9	782.3	719.6	671.3	630.2	625.4
70°	857.2	779.9	705.1	639.9	586.7	545.7	526.4
72.5°	792.0	712.3	635.0	565.0	497.4	458.8	444.3
75°	729.2	647.1	565.0	492.6	417.7	371.8	357.4
77.5°	671.3	586.7	499.8	420.1	350.1	292.2	272.9
80°	615.7	528.8	437.0	354.9	280.1	217.3	195.6
82.5°	557.8	475.7	381.5	294.6	217.3	152.1	125.6
85°	507.1	425.0	330.8	243.9	166.6	96.6	67.6
87.5°	466.0	376.7	292.2	205.2	125.6	55.5	19.3
90°	425.0	338.0	253.5	169.0	94.2	31.4	2.4
92.5°	388.8	306.7	222.1	144.9	72.4	21.7	2.4
95°	354.9	275.3	195.6	120.7	58.0	14.5	2.4
97.5°	323.6	248.7	173.9	103.8	48.3	12.1	2.4
100°	297.0	224.6	154.5	91.8	41.0	9.7	2.4
102.5°	270.4	202.8	137.6	79.7	36.2	7.2	2.4
105°	248.7	183.5	123.1	72.4	31.4	7.2	2.4
107.5°	227.0	166.6	111.1	62.8	26.6	4.8	2.4
110°	205.2	152.1	99.0	55.5	24.1	4.8	2.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	188.3	137.6	89.3	50.7	19.3	4.8	2.4
115°	171.4	123.1	79.7	43.5	16.9	2.4	2.4
117.5°	154.5	111.1	70.0	38.6	14.5	2.4	2.4
120°	140.0	99.0	62.8	33.8	12.1	2.4	2.4
122.5°	125.6	89.3	55.5	29.0	9.7	2.4	2.4
125°	113.5	79.7	48.3	24.1	7.2	2.4	2.4
127.5°	101.4	70.0	43.5	21.7	7.2	2.4	2.4
130°	89.3	62.8	36.2	16.9	4.8	2.4	2.4
132.5°	79.7	53.1	31.4	14.5	4.8	2.4	2.4
135°	70.0	45.9	26.6	9.7	4.8	2.4	2.4
137.5°	60.4	38.6	21.7	7.2	2.4	2.4	2.4
140°	50.7	33.8	16.9	7.2	2.4	2.4	2.4
142.5°	43.5	26.6	12.1	4.8	2.4	2.4	2.4
145°	33.8	21.7	9.7	4.8	2.4	2.4	2.4
147.5°	26.6	16.9	7.2	4.8	2.4	2.4	2.4
150°	19.3	12.1	7.2	2.4	2.4	2.4	2.4
152.5°	14.5	9.7	4.8	2.4	2.4	2.4	2.4
155°	9.7	7.2	4.8	2.4	2.4	2.4	2.4
157.5°	7.2	4.8	2.4	2.4	2.4	2.4	2.4
160°	4.8	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)