

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-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-LD5-136SL-LW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

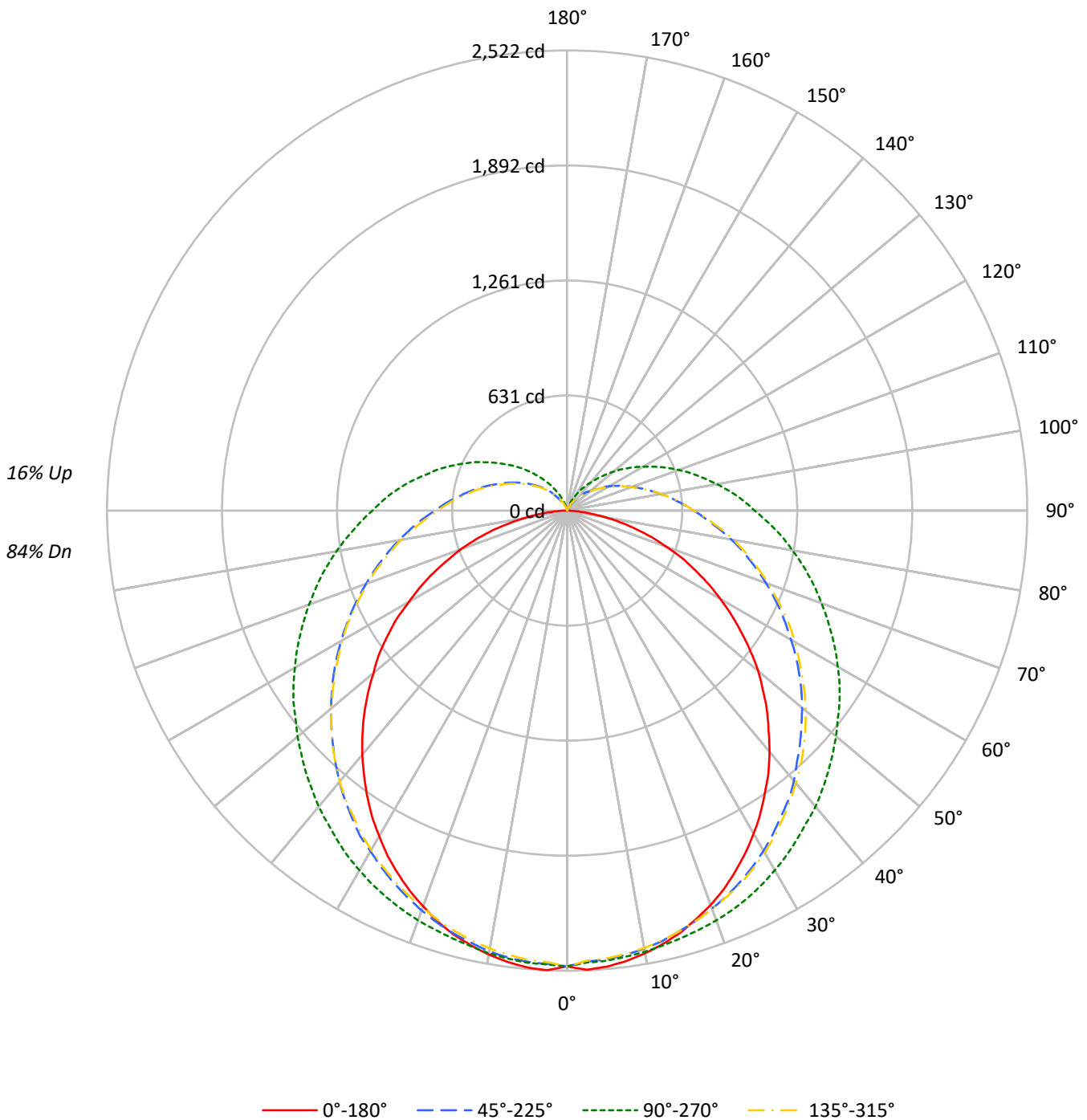
Lumens per Lamp: N/A
Luminaire Lumens: 10852.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

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



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	
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°	10092	10092	10092	10092
5°	10160	9726	10181	9768
10°	10080	9450	10112	9480
15°	9977	9213	10021	9223
20°	9835	9041	9868	9041
25°	9656	8887	9714	8877
30°	9454	8729	9527	8729
35°	9218	8583	9320	8593
40°	8985	8497	9095	8497
45°	8717	8407	8850	8418
50°	8439	8353	8552	8376
55°	8043	8362	8297	8398
60°	7629	8387	7878	8439
65°	7166	8471	7483	8555
70°	6506	8627	7014	8750
75°	5753	8909	6296	9080
80°	4561	9327	5181	9543
85°	2903	9997	3627	10274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	2.2
10°-20°	680.0	6.3
20°-30°	1042.7	9.6
30°-40°	1286.3	11.9
40°-50°	1395.5	12.9
50°-60°	1375.5	12.7
60°-70°	1243.6	11.5
70°-80°	1036.0	9.5
80°-90°	802.4	7.4
90°-100°	608.6	5.6
100°-110°	450.4	4.2
110°-120°	313.3	2.9
120°-130°	199.9	1.8
130°-140°	112.1	1.0
140°-150°	51.2	0.5
150°-160°	15.9	0.1
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1959.3	18.1
0°-40°	3245.6	29.9
0°-60°	6016.6	55.4
0°-90°	9098.7	83.8
90°-120°	1372.2	12.6
90°-150°	1735.4	16.0
90°-180°	1753.0	16.2
0°-180°	10852.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2498	2498	2498	2498	2498	
5°	2508	2477	2514	2487	2508	238
15°	2395	2424	2406	2427	2395	675
25°	2182	2342	2195	2340	2182	1005
35°	1889	2197	1910	2200	1889	1183
45°	1549	2024	1573	2026	1549	1193
55°	1167	1823	1204	1831	1167	1045
65°	775	1599	809	1615	775	768
75°	390	1370	427	1396	390	413
85°	74	1141	92	1172	74	89
90°	3	1028	5	1067	3	4
95°	3	933	3	978	3	2
105°	3	740	3	785	3	3
115°	3	564	3	614	3	3
125°	3	406	3	451	3	2
135°	3	264	3	311	3	2
145°	3	153	3	187	3	2
155°	3	63	3	87	3	1
165°	3	10	3	16	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2518.9	2518.9	2516.3	2511.0	2513.6	2521.5	2516.3	2503.1	2495.2	2474.1	2479.4
5°	2508.4	2508.4	2505.7	2500.4	2503.1	2513.6	2508.4	2497.8	2487.3	2468.8	2476.7
7.5°	2489.9	2489.9	2487.3	2482.0	2487.3	2497.8	2492.5	2482.0	2474.1	2455.7	2463.6
10°	2463.6	2466.2	2463.6	2455.7	2466.2	2476.7	2474.1	2460.9	2453.0	2437.2	2445.1
12.5°	2431.9	2434.6	2431.9	2429.3	2434.6	2450.4	2445.1	2434.6	2429.3	2416.1	2424.0
15°	2395.1	2397.7	2392.4	2392.4	2397.7	2413.5	2413.5	2403.0	2397.7	2384.5	2400.3
17.5°	2347.6	2350.3	2347.6	2347.6	2352.9	2368.7	2371.3	2366.1	2360.8	2355.5	2371.3
20°	2300.2	2297.6	2297.6	2294.9	2305.5	2329.2	2326.5	2326.5	2321.3	2321.3	2339.7
22.5°	2244.9	2244.9	2242.2	2242.2	2255.4	2276.5	2276.5	2281.8	2276.5	2287.0	2302.8
25°	2181.6	2184.3	2181.6	2186.9	2197.4	2221.2	2223.8	2231.7	2234.3	2244.9	2263.3
27.5°	2115.8	2118.4	2115.8	2121.0	2139.5	2157.9	2171.1	2181.6	2184.3	2200.1	2223.8
30°	2044.6	2044.6	2047.3	2052.5	2073.6	2102.6	2113.1	2126.3	2126.3	2152.7	2176.4
32.5°	1970.8	1970.8	1970.8	1981.4	2005.1	2039.4	2052.5	2068.3	2073.6	2100.0	2126.3
35°	1889.2	1891.8	1891.8	1899.7	1931.3	1965.6	1984.0	2002.5	2013.0	2044.6	2071.0
37.5°	1812.8	1818.0	1810.1	1820.7	1865.5	1894.4	1915.5	1934.0	1952.4	1994.6	2015.6
40°	1725.8	1731.1	1728.4	1749.5	1786.4	1823.3	1847.0	1865.5	1891.8	1934.0	1957.7
42.5°	1633.6	1638.9	1644.1	1667.8	1707.4	1744.3	1773.2	1796.9	1828.6	1865.5	1905.0
45°	1549.3	1549.3	1557.2	1586.2	1628.3	1667.8	1702.1	1728.4	1765.3	1804.9	1844.4
47.5°	1454.4	1457.1	1467.6	1501.8	1546.6	1594.1	1625.7	1659.9	1699.5	1741.6	1786.4
50°	1367.5	1367.5	1383.3	1420.2	1462.3	1515.0	1549.3	1588.8	1631.0	1681.0	1725.8
52.5°	1267.3	1272.6	1296.3	1330.6	1385.9	1433.3	1472.9	1515.0	1565.1	1617.8	1667.8
55°	1167.2	1177.8	1196.2	1243.6	1301.6	1346.4	1393.8	1446.5	1493.9	1551.9	1609.9
57.5°	1069.7	1077.6	1106.6	1154.1	1214.7	1270.0	1320.0	1370.1	1428.1	1486.0	1546.6
60°	969.6	980.2	1014.4	1061.8	1127.7	1185.7	1243.6	1296.3	1356.9	1417.5	1480.8
62.5°	874.8	882.7	922.2	977.5	1043.4	1106.6	1164.6	1227.8	1293.7	1351.7	1414.9
65°	774.6	787.8	832.6	882.7	959.1	1022.3	1088.2	1156.7	1225.2	1288.4	1349.0
67.5°	682.4	690.3	737.8	795.7	872.1	943.3	1011.8	1085.5	1156.7	1222.6	1283.2
70°	574.4	600.7	648.2	708.8	790.4	864.2	938.0	1014.4	1090.8	1159.3	1217.3
72.5°	484.8	505.9	558.6	624.5	703.5	790.4	866.9	948.5	1024.9	1096.1	1156.7
75°	390.0	411.0	471.6	545.4	627.1	719.3	798.4	882.7	961.7	1032.9	1096.1
77.5°	297.7	324.1	390.0	466.4	555.9	650.8	732.5	816.8	898.5	974.9	1038.1
80°	213.4	242.4	313.5	400.5	487.4	582.3	671.9	756.2	837.9	914.3	980.2
82.5°	137.0	168.6	245.0	332.0	424.2	519.1	611.3	695.6	777.3	853.7	922.2
85°	73.8	108.0	187.1	274.0	366.2	461.1	553.3	642.9	721.9	793.1	866.9
87.5°	21.1	63.2	139.6	226.6	321.4	408.4	498.0	587.6	666.6	743.0	808.9
90°	2.6	36.9	105.4	187.1	279.3	363.6	453.2	537.5	616.5	693.0	758.8
92.5°	2.6	23.7	81.7	155.5	239.8	326.7	416.3	498.0	571.8	648.2	714.0
95°	2.6	18.4	65.9	131.7	210.8	292.5	376.8	455.8	532.2	603.4	669.2
97.5°	2.6	13.2	52.7	113.3	184.4	260.8	342.5	421.6	495.3	563.9	624.5
100°	2.6	10.5	42.2	97.5	160.7	234.5	308.3	384.7	455.8	521.7	584.9
102.5°	2.6	7.9	36.9	81.7	142.3	208.2	279.3	350.4	418.9	482.2	545.4
105°	2.6	7.9	31.6	71.1	126.5	187.1	252.9	321.4	384.7	445.3	503.3
107.5°	2.6	5.3	26.3	60.6	110.7	168.6	229.2	295.1	353.1	411.0	466.4
110°	2.6	5.3	21.1	55.3	97.5	150.2	208.2	268.8	324.1	379.4	432.1



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CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.6	5.3	18.4	47.4	84.3	134.4	187.1	242.4	295.1	350.4	397.9
115°	2.6	5.3	15.8	42.2	79.0	115.9	168.6	218.7	271.4	321.4	366.2
117.5°	2.6	5.3	13.2	34.3	68.5	105.4	147.6	197.6	245.0	292.5	334.6
120°	2.6	5.3	10.5	31.6	60.6	94.9	131.7	176.5	221.3	266.1	310.9
122.5°	2.6	2.6	10.5	26.3	52.7	84.3	121.2	155.5	197.6	239.8	279.3
125°	2.6	2.6	10.5	23.7	44.8	76.4	108.0	139.6	176.5	213.4	247.7
127.5°	2.6	2.6	7.9	18.4	39.5	65.9	94.9	129.1	155.5	189.7	224.0
130°	2.6	2.6	7.9	15.8	34.3	55.3	84.3	113.3	144.9	168.6	197.6
132.5°	2.6	2.6	7.9	13.2	26.3	44.8	71.1	97.5	126.5	152.8	176.5
135°	2.6	2.6	5.3	10.5	21.1	36.9	58.0	81.7	110.7	137.0	160.7
137.5°	2.6	2.6	5.3	10.5	15.8	31.6	44.8	65.9	92.2	115.9	139.6
140°	2.6	2.6	5.3	7.9	13.2	23.7	36.9	52.7	73.8	94.9	121.2
142.5°	2.6	2.6	2.6	7.9	10.5	18.4	29.0	42.2	58.0	76.4	97.5
145°	2.6	2.6	2.6	7.9	10.5	13.2	23.7	34.3	44.8	58.0	76.4
147.5°	2.6	2.6	2.6	5.3	7.9	10.5	18.4	26.3	34.3	44.8	55.3
150°	2.6	2.6	2.6	5.3	7.9	10.5	13.2	18.4	26.3	36.9	44.8
152.5°	2.6	2.6	2.6	5.3	5.3	7.9	10.5	13.2	18.4	26.3	31.6
155°	2.6	2.6	2.6	2.6	5.3	7.9	10.5	10.5	13.2	18.4	23.7
157.5°	2.6	2.6	2.6	2.6	5.3	5.3	7.9	7.9	10.5	10.5	15.8
160°	2.6	2.6	2.6	2.6	2.6	5.3	5.3	7.9	7.9	7.9	7.9
162.5°	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3	5.3	7.9	7.9
165°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3	5.3
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°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2479.4	2482.0	2489.9	2489.9	2484.6	2484.6	2482.0	2479.4	2482.0	2487.3	2487.3
5°	2474.1	2476.7	2484.6	2487.3	2482.0	2479.4	2479.4	2476.7	2479.4	2484.6	2484.6
7.5°	2463.6	2466.2	2474.1	2476.7	2471.5	2471.5	2468.8	2466.2	2471.5	2474.1	2474.1
10°	2447.8	2450.4	2460.9	2463.6	2460.9	2458.3	2458.3	2455.7	2458.3	2463.6	2463.6
12.5°	2426.7	2431.9	2445.1	2445.1	2445.1	2442.5	2442.5	2439.8	2442.5	2447.8	2445.1
15°	2403.0	2413.5	2424.0	2429.3	2429.3	2429.3	2426.7	2424.0	2429.3	2431.9	2429.3
17.5°	2376.6	2389.8	2405.6	2410.9	2410.9	2413.5	2410.9	2408.2	2413.5	2413.5	2410.9
20°	2350.3	2363.4	2379.2	2384.5	2389.8	2392.4	2392.4	2389.8	2392.4	2395.1	2392.4
22.5°	2316.0	2331.8	2350.3	2358.2	2363.4	2368.7	2368.7	2368.7	2371.3	2374.0	2368.7
25°	2279.1	2297.6	2318.6	2326.5	2337.1	2339.7	2342.4	2342.4	2345.0	2347.6	2339.7
27.5°	2239.6	2260.7	2281.8	2294.9	2302.8	2308.1	2308.1	2310.7	2313.4	2316.0	2308.1
30°	2192.2	2223.8	2242.2	2252.8	2263.3	2271.2	2273.9	2276.5	2279.1	2281.8	2273.9
32.5°	2150.0	2176.4	2200.1	2213.3	2226.4	2237.0	2239.6	2239.6	2244.9	2244.9	2237.0
35°	2100.0	2131.6	2155.3	2168.5	2184.3	2192.2	2197.4	2197.4	2202.7	2202.7	2194.8
37.5°	2049.9	2081.5	2107.9	2123.7	2142.1	2152.7	2155.3	2155.3	2160.6	2160.6	2150.0
40°	1997.2	2031.4	2060.4	2078.9	2094.7	2107.9	2110.5	2118.4	2118.4	2115.8	2105.2
42.5°	1944.5	1976.1	2007.7	2028.8	2049.9	2063.1	2068.3	2071.0	2071.0	2068.3	2060.4
45°	1886.5	1923.4	1952.4	1978.8	1999.8	2013.0	2020.9	2023.5	2023.5	2018.3	2010.4
47.5°	1831.2	1868.1	1897.1	1926.1	1947.1	1962.9	1970.8	1973.5	1970.8	1968.2	1960.3
50°	1773.2	1815.4	1844.4	1873.4	1894.4	1907.6	1920.8	1923.4	1920.8	1918.2	1902.3
52.5°	1712.6	1757.4	1789.0	1818.0	1841.7	1857.6	1868.1	1870.7	1870.7	1865.5	1854.9
55°	1652.0	1691.6	1731.1	1762.7	1789.0	1804.9	1818.0	1823.3	1818.0	1812.8	1799.6
57.5°	1596.7	1633.6	1673.1	1707.4	1733.7	1754.8	1765.3	1770.6	1765.3	1757.4	1744.3
60°	1530.8	1570.4	1615.1	1646.8	1675.7	1696.8	1702.1	1712.6	1707.4	1699.5	1686.3
62.5°	1467.6	1515.0	1554.5	1594.1	1617.8	1641.5	1652.0	1657.3	1652.0	1644.1	1631.0
65°	1401.7	1454.4	1493.9	1533.5	1559.8	1583.5	1596.7	1599.3	1594.1	1586.2	1573.0
67.5°	1341.1	1391.2	1433.3	1475.5	1499.2	1522.9	1536.1	1541.4	1536.1	1525.6	1512.4
70°	1280.5	1330.6	1380.6	1412.3	1441.2	1467.6	1475.5	1483.4	1478.1	1467.6	1451.8
72.5°	1219.9	1272.6	1322.7	1354.3	1385.9	1409.6	1420.2	1428.1	1422.8	1412.3	1393.8
75°	1156.7	1212.0	1262.1	1296.3	1328.0	1351.7	1362.2	1370.1	1364.8	1354.3	1333.2
77.5°	1098.7	1154.1	1201.5	1238.4	1270.0	1291.1	1309.5	1312.1	1306.9	1296.3	1275.3
80°	1038.1	1093.5	1143.5	1180.4	1212.0	1233.1	1246.3	1254.2	1248.9	1238.4	1217.3
82.5°	985.4	1035.5	1085.5	1122.4	1154.1	1180.4	1190.9	1198.8	1196.2	1180.4	1164.6
85°	927.5	985.4	1024.9	1064.5	1096.1	1122.4	1130.3	1140.9	1138.2	1125.1	1104.0
87.5°	869.5	927.5	974.9	1014.4	1043.4	1064.5	1077.6	1082.9	1080.3	1067.1	1043.4
90°	822.1	874.8	922.2	964.3	988.1	1011.8	1024.9	1027.6	1027.6	1011.8	993.3
92.5°	777.3	827.3	874.8	914.3	943.3	964.3	974.9	980.2	977.5	964.3	943.3
95°	727.2	782.5	827.3	866.9	895.8	916.9	927.5	932.7	930.1	916.9	895.8
97.5°	685.1	735.1	779.9	816.8	845.8	866.9	877.4	882.7	882.7	869.5	848.4
100°	642.9	693.0	735.1	772.0	798.4	819.4	830.0	832.6	830.0	819.4	798.4
102.5°	600.7	648.2	690.3	724.6	753.6	772.0	782.5	785.2	785.2	772.0	750.9
105°	558.6	606.0	645.5	682.4	706.1	724.6	732.5	740.4	737.8	727.2	706.1
107.5°	519.1	566.5	603.4	637.6	661.3	679.8	687.7	695.6	693.0	682.4	661.3
110°	482.2	527.0	561.2	595.5	616.5	635.0	648.2	650.8	645.5	635.0	616.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	447.9	487.4	521.7	553.3	577.0	590.2	600.7	606.0	600.7	590.2	577.0
115°	411.0	450.6	484.8	513.8	534.9	550.7	558.6	563.9	558.6	548.0	534.9
117.5°	376.8	413.7	447.9	476.9	495.3	508.5	516.4	521.7	516.4	508.5	495.3
120°	347.8	379.4	411.0	437.4	458.5	469.0	476.9	482.2	479.5	469.0	455.8
122.5°	313.5	347.8	376.8	403.1	421.6	432.1	437.4	442.7	440.0	432.1	418.9
125°	284.6	313.5	342.5	366.2	384.7	395.2	400.5	405.8	403.1	395.2	379.4
127.5°	252.9	284.6	308.3	332.0	345.2	361.0	363.6	368.9	366.2	358.3	345.2
130°	229.2	252.9	276.7	297.7	313.5	324.1	329.4	332.0	326.7	321.4	308.3
132.5°	200.2	226.6	247.7	266.1	276.7	287.2	292.5	295.1	295.1	287.2	276.7
135°	179.2	197.6	216.1	234.5	245.0	255.6	260.8	263.5	260.8	255.6	245.0
137.5°	160.7	176.5	189.7	205.5	218.7	224.0	229.2	229.2	226.6	224.0	216.1
140°	139.6	158.1	171.3	181.8	192.3	195.0	200.2	200.2	197.6	195.0	189.7
142.5°	118.6	134.4	147.6	160.7	168.6	173.9	176.5	179.2	176.5	173.9	166.0
145°	94.9	113.3	126.5	134.4	144.9	147.6	150.2	152.8	150.2	147.6	139.6
147.5°	73.8	89.6	102.8	113.3	121.2	123.8	126.5	129.1	126.5	121.2	118.6
150°	52.7	65.9	81.7	92.2	97.5	102.8	102.8	102.8	105.4	100.1	94.9
152.5°	42.2	47.4	58.0	68.5	76.4	79.0	81.7	81.7	79.0	79.0	73.8
155°	29.0	34.3	42.2	50.1	58.0	60.6	63.2	63.2	60.6	60.6	58.0
157.5°	18.4	23.7	29.0	34.3	42.2	44.8	47.4	47.4	47.4	44.8	42.2
160°	10.5	13.2	15.8	21.1	26.3	29.0	31.6	31.6	31.6	31.6	29.0
162.5°	7.9	7.9	7.9	10.5	13.2	15.8	18.4	18.4	18.4	18.4	15.8
165°	5.3	5.3	5.3	5.3	5.3	7.9	10.5	10.5	10.5	10.5	10.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2484.6	2484.6	2487.3	2482.0	2466.2	2468.8	2468.8	2479.4	2484.6	2487.3	2500.4
5°	2479.4	2479.4	2484.6	2476.7	2463.6	2463.6	2463.6	2474.1	2476.7	2482.0	2492.5
7.5°	2471.5	2471.5	2474.1	2466.2	2450.4	2450.4	2447.8	2458.3	2463.6	2466.2	2476.7
10°	2458.3	2458.3	2460.9	2453.0	2434.6	2434.6	2431.9	2439.8	2442.5	2447.8	2455.7
12.5°	2439.8	2439.8	2439.8	2431.9	2413.5	2410.9	2408.2	2416.1	2416.1	2418.8	2426.7
15°	2424.0	2418.8	2418.8	2410.9	2392.4	2387.1	2381.9	2384.5	2389.8	2387.1	2392.4
17.5°	2405.6	2400.3	2395.1	2387.1	2363.4	2355.5	2350.3	2352.9	2350.3	2347.6	2352.9
20°	2384.5	2376.6	2374.0	2360.8	2337.1	2323.9	2313.4	2308.1	2310.7	2302.8	2305.5
22.5°	2360.8	2350.3	2345.0	2329.2	2305.5	2289.7	2276.5	2265.9	2263.3	2252.8	2255.4
25°	2331.8	2318.6	2310.7	2297.6	2271.2	2252.8	2237.0	2221.2	2213.3	2200.1	2197.4
27.5°	2297.6	2284.4	2273.9	2260.7	2234.3	2210.6	2192.2	2171.1	2160.6	2144.7	2136.8
30°	2263.3	2247.5	2231.7	2221.2	2192.2	2165.8	2136.8	2118.4	2102.6	2084.1	2071.0
32.5°	2221.2	2205.3	2189.5	2173.7	2147.4	2115.8	2092.0	2063.1	2044.6	2023.5	2007.7
35°	2179.0	2157.9	2142.1	2121.0	2097.3	2060.4	2031.4	2002.5	1978.8	1955.0	1936.6
37.5°	2131.6	2115.8	2092.0	2073.6	2044.6	2007.7	1976.1	1939.2	1918.2	1886.5	1862.8
40°	2086.8	2068.3	2044.6	2020.9	1991.9	1949.8	1915.5	1873.4	1849.6	1812.8	1789.0
42.5°	2042.0	2015.6	1991.9	1965.6	1934.0	1894.4	1852.3	1810.1	1778.5	1744.3	1710.0
45°	1991.9	1962.9	1934.0	1905.0	1873.4	1833.8	1789.0	1744.3	1704.7	1673.1	1631.0
47.5°	1939.2	1910.2	1876.0	1844.4	1810.1	1770.6	1723.2	1675.7	1633.6	1596.7	1551.9
50°	1886.5	1857.6	1820.7	1786.4	1746.9	1707.4	1657.3	1602.0	1557.2	1509.8	1470.2
52.5°	1831.2	1802.2	1768.0	1723.2	1681.0	1641.5	1588.8	1530.8	1480.8	1441.2	1391.2
55°	1775.9	1746.9	1707.4	1662.6	1620.4	1570.4	1520.3	1462.3	1407.0	1359.6	1309.5
57.5°	1717.9	1691.6	1646.8	1609.9	1557.2	1504.5	1451.8	1396.5	1335.9	1280.5	1222.6
60°	1659.9	1631.0	1588.8	1544.0	1491.3	1438.6	1383.3	1322.7	1259.4	1198.8	1146.1
62.5°	1607.2	1570.4	1530.8	1483.4	1428.1	1378.0	1314.8	1248.9	1185.7	1122.4	1059.2
65°	1546.6	1507.1	1470.2	1422.8	1364.8	1306.9	1243.6	1177.8	1109.3	1040.8	977.5
67.5°	1486.0	1446.5	1407.0	1359.6	1299.0	1238.4	1172.5	1106.6	1030.2	964.3	890.6
70°	1425.4	1393.8	1343.8	1293.7	1238.4	1172.5	1106.6	1035.5	956.4	885.3	808.9
72.5°	1364.8	1333.2	1283.2	1230.5	1177.8	1109.3	1038.1	967.0	893.2	811.5	729.8
75°	1306.9	1267.3	1222.6	1172.5	1117.2	1046.0	974.9	901.1	814.2	737.8	653.4
77.5°	1251.5	1214.7	1169.9	1114.5	1053.9	985.4	911.6	835.2	748.3	666.6	574.4
80°	1190.9	1154.1	1109.3	1053.9	993.3	927.5	848.4	769.4	685.1	595.5	500.6
82.5°	1133.0	1098.7	1048.7	998.6	932.7	866.9	787.8	708.8	619.2	532.2	440.0
85°	1072.4	1038.1	990.7	938.0	874.8	803.6	729.8	650.8	561.2	471.6	379.4
87.5°	1019.7	980.2	932.7	880.0	816.8	748.3	677.1	592.8	505.9	418.9	324.1
90°	964.3	927.5	880.0	827.3	764.1	695.6	621.8	542.8	458.5	368.9	279.3
92.5°	916.9	877.4	832.6	779.9	716.7	650.8	577.0	498.0	416.3	329.4	242.4
95°	869.5	830.0	787.8	735.1	671.9	606.0	532.2	455.8	376.8	292.5	210.8
97.5°	816.8	782.5	740.4	690.3	627.1	563.9	492.7	418.9	342.5	260.8	184.4
100°	774.6	735.1	695.6	642.9	584.9	524.3	453.2	382.0	308.3	231.9	160.7
102.5°	727.2	690.3	650.8	600.7	542.8	482.2	416.3	347.8	279.3	208.2	139.6
105°	682.4	648.2	606.0	558.6	503.3	445.3	382.0	318.8	252.9	184.4	123.8
107.5°	637.6	603.4	563.9	519.1	466.4	408.4	350.4	287.2	226.6	166.0	110.7
110°	592.8	561.2	524.3	479.5	429.5	376.8	321.4	263.5	202.9	147.6	97.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	553.3	521.7	484.8	442.7	395.2	345.2	292.5	237.1	181.8	131.7	84.3
115°	513.8	484.8	447.9	411.0	363.6	316.2	266.1	213.4	163.4	118.6	73.8
117.5°	474.3	445.3	411.0	374.1	332.0	287.2	239.8	189.7	147.6	105.4	65.9
120°	434.7	408.4	376.8	342.5	305.6	260.8	213.4	171.3	131.7	92.2	58.0
122.5°	397.9	374.1	345.2	313.5	274.0	231.9	192.3	155.5	118.6	81.7	47.4
125°	363.6	339.9	313.5	281.9	245.0	208.2	173.9	139.6	102.8	71.1	39.5
127.5°	329.4	305.6	279.3	250.3	221.3	187.1	155.5	123.8	92.2	63.2	34.3
130°	295.1	274.0	250.3	226.6	197.6	166.0	139.6	108.0	79.0	50.1	29.0
132.5°	260.8	245.0	224.0	200.2	173.9	150.2	121.2	94.9	68.5	44.8	26.3
135°	231.9	216.1	197.6	176.5	155.5	131.7	105.4	81.7	58.0	36.9	21.1
137.5°	205.5	192.3	173.9	155.5	137.0	113.3	92.2	68.5	47.4	31.6	15.8
140°	181.8	168.6	152.8	134.4	118.6	97.5	76.4	55.3	42.2	26.3	13.2
142.5°	158.1	144.9	131.7	115.9	100.1	81.7	63.2	47.4	34.3	21.1	13.2
145°	134.4	123.8	110.7	97.5	81.7	65.9	52.7	39.5	26.3	15.8	10.5
147.5°	110.7	102.8	89.6	79.0	65.9	52.7	42.2	31.6	21.1	13.2	7.9
150°	89.6	81.7	71.1	60.6	52.7	42.2	34.3	23.7	15.8	13.2	7.9
152.5°	68.5	63.2	55.3	50.1	42.2	31.6	23.7	18.4	13.2	10.5	5.3
155°	55.3	50.1	44.8	36.9	31.6	23.7	18.4	13.2	10.5	7.9	5.3
157.5°	39.5	36.9	31.6	26.3	21.1	15.8	13.2	13.2	7.9	5.3	2.6
160°	26.3	23.7	21.1	15.8	13.2	13.2	10.5	7.9	5.3	5.3	2.6
162.5°	15.8	13.2	13.2	13.2	10.5	10.5	7.9	5.3	5.3	2.6	2.6
165°	10.5	10.5	10.5	7.9	7.9	7.9	5.3	2.6	2.6	2.6	2.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2500.4	2492.5	2503.1	2521.5	2524.2	2521.5	2516.3	2524.2	2534.7	2532.1	2513.6
5°	2495.2	2484.6	2495.2	2513.6	2513.6	2511.0	2508.4	2516.3	2526.8	2524.2	2508.4
7.5°	2479.4	2468.8	2479.4	2495.2	2497.8	2492.5	2492.5	2500.4	2511.0	2508.4	2495.2
10°	2458.3	2447.8	2453.0	2471.5	2476.7	2471.5	2471.5	2479.4	2492.5	2489.9	2474.1
12.5°	2426.7	2418.8	2424.0	2439.8	2445.1	2442.5	2439.8	2450.4	2463.6	2463.6	2447.8
15°	2392.4	2381.9	2387.1	2405.6	2408.2	2403.0	2405.6	2413.5	2429.3	2429.3	2416.1
17.5°	2352.9	2339.7	2347.6	2360.8	2363.4	2363.4	2363.4	2374.0	2392.4	2389.8	2379.2
20°	2308.1	2289.7	2294.9	2308.1	2313.4	2313.4	2313.4	2331.8	2345.0	2345.0	2334.5
22.5°	2255.4	2242.2	2242.2	2255.4	2263.3	2260.7	2260.7	2276.5	2294.9	2292.3	2292.3
25°	2194.8	2184.3	2179.0	2194.8	2197.4	2200.1	2205.3	2221.2	2242.2	2242.2	2244.9
27.5°	2131.6	2121.0	2118.4	2131.6	2134.2	2136.8	2142.1	2160.6	2181.6	2184.3	2189.5
30°	2071.0	2055.2	2049.9	2060.4	2065.7	2068.3	2068.3	2097.3	2115.8	2123.7	2134.2
32.5°	1999.8	1984.0	1970.8	1989.3	1991.9	1997.2	1999.8	2028.8	2049.9	2063.1	2078.9
35°	1928.7	1902.3	1897.1	1910.2	1915.5	1918.2	1923.4	1955.0	1984.0	1994.6	2015.6
37.5°	1849.6	1831.2	1815.4	1828.6	1833.8	1836.5	1852.3	1881.3	1910.2	1926.1	1947.1
40°	1775.9	1752.2	1739.0	1746.9	1752.2	1754.8	1773.2	1804.9	1839.1	1857.6	1883.9
42.5°	1694.2	1662.6	1652.0	1659.9	1662.6	1670.5	1686.3	1728.4	1762.7	1789.0	1810.1
45°	1612.5	1588.8	1565.1	1573.0	1575.6	1580.9	1604.6	1649.4	1686.3	1717.9	1741.6
47.5°	1528.2	1499.2	1475.5	1480.8	1491.3	1493.9	1520.3	1573.0	1607.2	1641.5	1673.1
50°	1443.9	1404.4	1385.9	1385.9	1391.2	1404.4	1438.6	1491.3	1528.2	1567.7	1602.0
52.5°	1356.9	1320.0	1299.0	1301.6	1306.9	1322.7	1354.3	1407.0	1449.2	1491.3	1533.5
55°	1270.0	1230.5	1209.4	1204.1	1209.4	1230.5	1267.3	1322.7	1364.8	1414.9	1459.7
57.5°	1183.0	1135.6	1117.2	1109.3	1114.5	1140.9	1177.8	1235.7	1288.4	1335.9	1388.6
60°	1088.2	1051.3	1019.7	1001.2	1014.4	1048.7	1088.2	1148.8	1204.1	1256.8	1314.8
62.5°	1006.5	959.1	924.8	906.4	919.6	948.5	1003.9	1061.8	1122.4	1183.0	1241.0
65°	914.3	866.9	827.3	808.9	822.1	856.3	911.6	974.9	1040.8	1101.4	1169.9
67.5°	824.7	774.6	727.2	708.8	724.6	761.5	822.1	893.2	964.3	1027.6	1101.4
70°	737.8	682.4	632.4	619.2	629.7	679.8	737.8	808.9	882.7	956.4	1032.9
72.5°	658.7	590.2	537.5	521.7	534.9	590.2	656.1	729.8	808.9	887.9	969.6
75°	566.5	503.3	445.3	426.8	442.7	492.7	574.4	653.4	737.8	822.1	898.5
77.5°	492.7	418.9	358.3	329.4	355.7	418.9	498.0	582.3	669.2	756.2	843.1
80°	416.3	339.9	274.0	242.4	271.4	339.9	418.9	511.2	608.6	695.6	774.6
82.5°	347.8	266.1	197.6	163.4	195.0	271.4	358.3	450.6	545.4	632.4	724.6
85°	284.6	200.2	129.1	92.2	137.0	205.5	297.7	392.6	490.1	579.7	669.2
87.5°	231.9	150.2	79.0	39.5	84.3	160.7	247.7	342.5	440.0	529.6	613.9
90°	189.7	108.0	42.2	5.3	50.1	121.2	205.5	297.7	390.0	482.2	566.5
92.5°	155.5	81.7	23.7	2.6	31.6	97.5	176.5	263.5	353.1	442.7	524.3
95°	129.1	63.2	15.8	2.6	23.7	76.4	150.2	234.5	318.8	405.8	487.4
97.5°	110.7	52.7	13.2	2.6	18.4	65.9	129.1	208.2	289.8	371.5	450.6
100°	94.9	42.2	10.5	2.6	15.8	55.3	113.3	184.4	260.8	339.9	416.3
102.5°	81.7	34.3	7.9	2.6	13.2	47.4	100.1	166.0	234.5	310.9	384.7
105°	71.1	29.0	7.9	2.6	10.5	42.2	89.6	147.6	216.1	284.6	355.7
107.5°	60.6	23.7	5.3	2.6	7.9	34.3	79.0	134.4	195.0	260.8	326.7
110°	52.7	21.1	5.3	2.6	7.9	31.6	68.5	121.2	176.5	237.1	300.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	44.8	15.8	5.3	2.6	5.3	26.3	60.6	108.0	160.7	216.1	276.7
115°	39.5	13.2	2.6	2.6	5.3	23.7	55.3	97.5	144.9	197.6	252.9
117.5°	31.6	10.5	2.6	2.6	2.6	18.4	47.4	86.9	131.7	181.8	231.9
120°	26.3	10.5	2.6	2.6	2.6	15.8	42.2	76.4	118.6	163.4	210.8
122.5°	23.7	7.9	2.6	2.6	2.6	13.2	36.9	68.5	105.4	147.6	192.3
125°	21.1	7.9	2.6	2.6	2.6	10.5	31.6	60.6	94.9	131.7	173.9
127.5°	15.8	7.9	2.6	2.6	2.6	7.9	29.0	52.7	84.3	118.6	155.5
130°	13.2	5.3	2.6	2.6	2.6	7.9	23.7	47.4	73.8	105.4	139.6
132.5°	10.5	5.3	2.6	2.6	2.6	5.3	18.4	36.9	63.2	92.2	123.8
135°	10.5	5.3	2.6	2.6	2.6	5.3	13.2	31.6	52.7	79.0	105.4
137.5°	10.5	2.6	2.6	2.6	2.6	5.3	10.5	23.7	42.2	63.2	86.9
140°	7.9	2.6	2.6	2.6	2.6	2.6	7.9	18.4	34.3	52.7	73.8
142.5°	7.9	2.6	2.6	2.6	2.6	2.6	7.9	13.2	26.3	42.2	58.0
145°	5.3	2.6	2.6	2.6	2.6	2.6	5.3	10.5	21.1	31.6	47.4
147.5°	5.3	2.6	2.6	2.6	2.6	2.6	5.3	7.9	15.8	26.3	36.9
150°	5.3	2.6	2.6	2.6	2.6	2.6	5.3	7.9	10.5	18.4	29.0
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3	7.9	13.2	18.4
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	7.9	10.5	13.2
157.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3	7.9	10.5
160°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3	7.9
162.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3
165°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2505.7	2487.3	2492.5	2489.9	2495.2	2503.1	2503.1	2500.4	2500.4	2495.2	2489.9
5°	2500.4	2482.0	2489.9	2487.3	2492.5	2500.4	2500.4	2497.8	2497.8	2489.9	2487.3
7.5°	2484.6	2471.5	2476.7	2476.7	2482.0	2489.9	2489.9	2487.3	2487.3	2479.4	2476.7
10°	2468.8	2453.0	2460.9	2460.9	2466.2	2476.7	2476.7	2474.1	2474.1	2466.2	2463.6
12.5°	2442.5	2426.7	2439.8	2442.5	2447.8	2458.3	2455.7	2455.7	2455.7	2447.8	2445.1
15°	2410.9	2400.3	2413.5	2416.1	2424.0	2437.2	2437.2	2437.2	2437.2	2429.3	2426.7
17.5°	2376.6	2368.7	2381.9	2387.1	2397.7	2410.9	2410.9	2413.5	2416.1	2410.9	2408.2
20°	2337.1	2331.8	2345.0	2355.5	2371.3	2384.5	2389.8	2392.4	2397.7	2392.4	2389.8
22.5°	2292.3	2292.3	2310.7	2321.3	2339.7	2352.9	2360.8	2368.7	2374.0	2368.7	2366.1
25°	2242.2	2250.1	2268.6	2287.0	2308.1	2321.3	2329.2	2339.7	2345.0	2342.4	2339.7
27.5°	2194.8	2205.3	2229.1	2247.5	2265.9	2287.0	2294.9	2308.1	2313.4	2313.4	2310.7
30°	2139.5	2155.3	2181.6	2202.7	2226.4	2247.5	2258.0	2271.2	2279.1	2273.9	2276.5
32.5°	2086.8	2113.1	2134.2	2157.9	2184.3	2205.3	2218.5	2234.3	2242.2	2239.6	2242.2
35°	2028.8	2055.2	2084.1	2107.9	2139.5	2160.6	2179.0	2192.2	2202.7	2200.1	2200.1
37.5°	1965.6	1999.8	2028.8	2060.4	2089.4	2113.1	2131.6	2147.4	2157.9	2157.9	2157.9
40°	1905.0	1941.9	1970.8	2007.7	2044.6	2065.7	2086.8	2102.6	2113.1	2115.8	2118.4
42.5°	1839.1	1878.6	1912.9	1952.4	1989.3	2015.6	2039.4	2057.8	2068.3	2073.6	2071.0
45°	1778.5	1815.4	1854.9	1899.7	1934.0	1960.3	1989.3	2010.4	2020.9	2023.5	2026.2
47.5°	1710.0	1752.2	1796.9	1841.7	1876.0	1910.2	1936.6	1957.7	1968.2	1976.1	1976.1
50°	1644.1	1688.9	1739.0	1786.4	1823.3	1857.6	1883.9	1907.6	1920.8	1926.1	1928.7
52.5°	1583.5	1625.7	1678.4	1725.8	1762.7	1796.9	1831.2	1857.6	1870.7	1876.0	1876.0
55°	1509.8	1562.4	1620.4	1665.2	1704.7	1744.3	1778.5	1804.9	1818.0	1825.9	1831.2
57.5°	1441.2	1496.6	1557.2	1604.6	1652.0	1688.9	1720.5	1754.8	1765.3	1775.9	1778.5
60°	1375.4	1430.7	1488.7	1541.4	1588.8	1628.3	1665.2	1694.2	1712.6	1717.9	1723.2
62.5°	1306.9	1364.8	1425.4	1478.1	1528.2	1575.6	1609.9	1636.2	1657.3	1665.2	1670.5
65°	1241.0	1301.6	1362.2	1417.5	1470.2	1517.7	1551.9	1578.3	1599.3	1612.5	1615.1
67.5°	1169.9	1235.7	1299.0	1356.9	1409.6	1459.7	1493.9	1520.3	1541.4	1557.2	1559.8
70°	1104.0	1172.5	1235.7	1299.0	1351.7	1401.7	1438.6	1465.0	1488.7	1499.2	1504.5
72.5°	1040.8	1111.9	1177.8	1241.0	1293.7	1343.8	1383.3	1409.6	1433.3	1446.5	1449.2
75°	980.2	1051.3	1122.4	1183.0	1238.4	1288.4	1328.0	1356.9	1378.0	1391.2	1396.5
77.5°	919.6	993.3	1064.5	1125.1	1183.0	1233.1	1267.3	1301.6	1322.7	1338.5	1338.5
80°	859.0	935.4	1009.1	1069.7	1127.7	1172.5	1212.0	1246.3	1267.3	1283.2	1283.2
82.5°	806.3	880.0	951.2	1011.8	1069.7	1119.8	1159.3	1190.9	1214.7	1225.2	1227.8
85°	745.7	827.3	893.2	959.1	1014.4	1061.8	1101.4	1135.6	1156.7	1167.2	1172.5
87.5°	695.6	774.6	845.8	903.7	959.1	1006.5	1051.3	1080.3	1101.4	1114.5	1119.8
90°	648.2	724.6	795.7	853.7	911.6	956.4	998.6	1027.6	1051.3	1061.8	1067.1
92.5°	606.0	682.4	750.9	808.9	864.2	914.3	953.8	982.8	1003.9	1014.4	1022.3
95°	566.5	640.3	706.1	769.4	822.1	866.9	909.0	938.0	961.7	969.6	977.5
97.5°	527.0	598.1	664.0	724.6	779.9	822.1	861.6	890.6	909.0	922.2	930.1
100°	492.7	561.2	624.5	682.4	735.1	774.6	816.8	843.1	861.6	872.1	882.7
102.5°	455.8	524.3	584.9	640.3	695.6	732.5	772.0	798.4	814.2	832.6	832.6
105°	424.2	487.4	548.0	600.7	648.2	693.0	727.2	753.6	772.0	785.2	785.2
107.5°	390.0	453.2	511.2	566.5	611.3	653.4	685.1	708.8	729.8	737.8	745.7
110°	363.6	418.9	476.9	529.6	571.8	611.3	642.9	669.2	687.7	695.6	700.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.0	390.0	442.7	492.7	534.9	571.8	603.4	624.5	642.9	653.4	656.1
115°	305.6	361.0	408.4	455.8	500.6	532.2	561.2	582.3	600.7	608.6	613.9
117.5°	281.9	332.0	379.4	418.9	461.1	495.3	524.3	542.8	558.6	569.1	574.4
120°	258.2	305.6	347.8	387.3	426.8	458.5	484.8	503.3	521.7	529.6	529.6
122.5°	234.5	279.3	318.8	355.7	392.6	421.6	450.6	466.4	482.2	490.1	490.1
125°	213.4	255.6	292.5	326.7	361.0	387.3	411.0	429.5	445.3	450.6	450.6
127.5°	192.3	231.9	266.1	297.7	326.7	353.1	376.8	395.2	408.4	413.7	413.7
130°	173.9	208.2	239.8	271.4	300.4	321.4	345.2	361.0	368.9	376.8	379.4
132.5°	155.5	187.1	216.1	242.4	271.4	292.5	310.9	326.7	334.6	342.5	345.2
135°	137.0	166.0	192.3	218.7	242.4	263.5	279.3	292.5	303.0	308.3	310.9
137.5°	115.9	147.6	171.3	192.3	218.7	234.5	252.9	260.8	271.4	276.7	276.7
140°	97.5	121.2	147.6	168.6	189.7	205.5	221.3	234.5	242.4	245.0	245.0
142.5°	79.0	100.1	121.2	147.6	166.0	179.2	195.0	205.5	210.8	213.4	216.1
145°	63.2	79.0	97.5	121.2	142.3	158.1	166.0	176.5	181.8	184.4	187.1
147.5°	47.4	63.2	79.0	94.9	115.9	131.7	139.6	150.2	155.5	158.1	158.1
150°	36.9	47.4	58.0	73.8	89.6	108.0	118.6	126.5	129.1	131.7	131.7
152.5°	26.3	36.9	44.8	55.3	65.9	81.7	97.5	102.8	105.4	108.0	108.0
155°	18.4	26.3	31.6	39.5	47.4	60.6	73.8	81.7	84.3	86.9	86.9
157.5°	13.2	18.4	21.1	29.0	34.3	39.5	50.1	63.2	65.9	65.9	65.9
160°	7.9	10.5	13.2	18.4	21.1	26.3	31.6	39.5	47.4	47.4	47.4
162.5°	5.3	7.9	7.9	10.5	10.5	15.8	18.4	21.1	29.0	31.6	31.6
165°	2.6	5.3	5.3	5.3	5.3	5.3	7.9	7.9	13.2	15.8	15.8
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2492.5	2497.8	2495.2	2495.2	2495.2	2500.4	2495.2	2471.5	2476.7	2482.0	2487.3
5°	2489.9	2492.5	2492.5	2489.9	2489.9	2495.2	2489.9	2466.2	2471.5	2476.7	2479.4
7.5°	2479.4	2482.0	2482.0	2482.0	2479.4	2484.6	2476.7	2455.7	2455.7	2460.9	2463.6
10°	2466.2	2471.5	2468.8	2466.2	2466.2	2466.2	2460.9	2437.2	2437.2	2439.8	2442.5
12.5°	2450.4	2450.4	2450.4	2447.8	2445.1	2445.1	2439.8	2416.1	2413.5	2418.8	2416.1
15°	2429.3	2434.6	2429.3	2426.7	2421.4	2421.4	2413.5	2389.8	2384.5	2387.1	2384.5
17.5°	2410.9	2413.5	2408.2	2403.0	2397.7	2395.1	2387.1	2360.8	2352.9	2355.5	2350.3
20°	2392.4	2392.4	2387.1	2381.9	2374.0	2366.1	2355.5	2329.2	2316.0	2316.0	2305.5
22.5°	2368.7	2368.7	2363.4	2355.5	2347.6	2337.1	2326.5	2300.2	2279.1	2273.9	2265.9
25°	2342.4	2339.7	2337.1	2329.2	2313.4	2302.8	2292.3	2263.3	2239.6	2229.1	2215.9
27.5°	2310.7	2310.7	2302.8	2294.9	2279.1	2265.9	2252.8	2226.4	2194.8	2181.6	2163.2
30°	2276.5	2276.5	2268.6	2258.0	2242.2	2226.4	2210.6	2179.0	2147.4	2128.9	2107.9
32.5°	2242.2	2239.6	2231.7	2221.2	2205.3	2181.6	2168.5	2136.8	2100.0	2078.9	2049.9
35°	2200.1	2197.4	2189.5	2176.4	2155.3	2136.8	2115.8	2086.8	2044.6	2018.3	1986.7
37.5°	2157.9	2155.3	2150.0	2131.6	2110.5	2089.4	2063.1	2034.1	1994.6	1960.3	1928.7
40°	2115.8	2113.1	2102.6	2089.4	2063.1	2036.7	2010.4	1981.4	1939.2	1899.7	1865.5
42.5°	2071.0	2068.3	2055.2	2039.4	2010.4	1984.0	1952.4	1920.8	1878.6	1831.2	1796.9
45°	2026.2	2020.9	2007.7	1989.3	1957.7	1928.7	1897.1	1860.2	1818.0	1773.2	1728.4
47.5°	1978.8	1970.8	1957.7	1931.3	1905.0	1873.4	1836.5	1796.9	1754.8	1704.7	1657.3
50°	1926.1	1920.8	1905.0	1881.3	1849.6	1818.0	1775.9	1736.3	1686.3	1638.9	1580.9
52.5°	1876.0	1865.5	1852.3	1825.9	1794.3	1760.1	1715.3	1667.8	1617.8	1573.0	1512.4
55°	1823.3	1818.0	1799.6	1778.5	1739.0	1699.5	1657.3	1607.2	1551.9	1499.2	1441.2
57.5°	1773.2	1762.7	1746.9	1717.9	1683.7	1644.1	1599.3	1546.6	1486.0	1430.7	1367.5
60°	1723.2	1707.4	1688.9	1662.6	1625.7	1583.5	1536.1	1480.8	1420.2	1359.6	1293.7
62.5°	1667.8	1654.7	1633.6	1607.2	1570.4	1525.6	1475.5	1417.5	1359.6	1296.3	1225.2
65°	1612.5	1599.3	1578.3	1551.9	1515.0	1465.0	1412.3	1354.3	1288.4	1227.8	1151.4
67.5°	1557.2	1544.0	1520.3	1491.3	1454.4	1407.0	1351.7	1291.1	1225.2	1159.3	1080.3
70°	1501.8	1486.0	1465.0	1433.3	1396.5	1346.4	1291.1	1227.8	1162.0	1090.8	1011.8
72.5°	1446.5	1433.3	1407.0	1378.0	1338.5	1288.4	1233.1	1169.9	1101.4	1027.6	948.5
75°	1391.2	1375.4	1356.9	1322.7	1280.5	1233.1	1175.1	1111.9	1038.1	967.0	885.3
77.5°	1335.9	1322.7	1299.0	1264.7	1225.2	1175.1	1117.2	1053.9	980.2	906.4	819.4
80°	1280.5	1264.7	1246.3	1214.7	1169.9	1119.8	1059.2	996.0	922.2	845.8	758.8
82.5°	1225.2	1209.4	1188.3	1156.7	1114.5	1064.5	1006.5	938.0	864.2	785.2	703.5
85°	1169.9	1156.7	1133.0	1101.4	1056.6	1006.5	948.5	887.9	808.9	729.8	648.2
87.5°	1114.5	1101.4	1077.6	1046.0	1003.9	953.8	895.8	832.6	756.2	682.4	592.8
90°	1061.8	1051.3	1027.6	996.0	953.8	903.7	851.0	782.5	708.8	635.0	550.7
92.5°	1014.4	1003.9	982.8	951.2	914.3	859.0	806.3	740.4	666.6	590.2	508.5
95°	972.2	959.1	938.0	909.0	864.2	816.8	764.1	698.2	627.1	550.7	471.6
97.5°	924.8	911.6	890.6	859.0	822.1	772.0	719.3	656.1	584.9	513.8	434.7
100°	877.4	864.2	840.5	814.2	777.3	727.2	677.1	613.9	548.0	479.5	403.1
102.5°	830.0	816.8	795.7	769.4	732.5	687.7	637.6	577.0	511.2	442.7	371.5
105°	785.2	772.0	750.9	724.6	690.3	645.5	592.8	540.1	476.9	411.0	342.5
107.5°	740.4	727.2	708.8	682.4	648.2	606.0	555.9	500.6	442.7	379.4	313.5
110°	695.6	685.1	664.0	640.3	606.0	563.9	519.1	466.4	408.4	350.4	287.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	653.4	642.9	621.8	595.5	566.5	527.0	482.2	432.1	376.8	321.4	260.8
115°	611.3	598.1	579.7	555.9	527.0	490.1	447.9	403.1	347.8	295.1	239.8
117.5°	569.1	558.6	540.1	516.4	490.1	453.2	413.7	371.5	318.8	268.8	218.7
120°	527.0	519.1	500.6	479.5	453.2	418.9	382.0	339.9	292.5	245.0	197.6
122.5°	487.4	479.5	461.1	442.7	416.3	384.7	350.4	310.9	268.8	224.0	181.8
125°	450.6	440.0	424.2	405.8	382.0	353.1	318.8	281.9	242.4	202.9	163.4
127.5°	411.0	403.1	392.6	371.5	347.8	321.4	289.8	258.2	221.3	184.4	147.6
130°	379.4	368.9	355.7	339.9	318.8	292.5	263.5	231.9	200.2	166.0	129.1
132.5°	342.5	332.0	321.4	305.6	287.2	263.5	237.1	208.2	179.2	147.6	115.9
135°	308.3	300.4	289.8	274.0	255.6	237.1	210.8	184.4	158.1	129.1	102.8
137.5°	276.7	268.8	258.2	247.7	229.2	210.8	187.1	163.4	139.6	113.3	89.6
140°	245.0	239.8	229.2	218.7	202.9	184.4	163.4	142.3	121.2	97.5	76.4
142.5°	213.4	208.2	200.2	189.7	176.5	160.7	142.3	123.8	102.8	84.3	65.9
145°	184.4	181.8	173.9	163.4	152.8	137.0	121.2	105.4	86.9	71.1	52.7
147.5°	155.5	152.8	147.6	139.6	129.1	115.9	102.8	86.9	73.8	58.0	42.2
150°	129.1	126.5	123.8	113.3	108.0	94.9	84.3	71.1	60.6	44.8	34.3
152.5°	105.4	105.4	100.1	92.2	86.9	76.4	68.5	58.0	47.4	36.9	26.3
155°	84.3	81.7	79.0	73.8	68.5	60.6	52.7	44.8	36.9	26.3	18.4
157.5°	65.9	63.2	60.6	55.3	50.1	47.4	39.5	31.6	23.7	18.4	13.2
160°	47.4	44.8	42.2	39.5	36.9	31.6	26.3	21.1	15.8	10.5	7.9
162.5°	31.6	29.0	29.0	26.3	23.7	18.4	15.8	13.2	10.5	7.9	5.3
165°	15.8	15.8	13.2	13.2	10.5	7.9	7.9	7.9	5.3	5.3	2.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2484.6	2484.6	2495.2	2492.5	2484.6	2500.4	2518.9
5°	2476.7	2476.7	2484.6	2484.6	2476.7	2492.5	2508.4
7.5°	2463.6	2460.9	2468.8	2468.8	2458.3	2471.5	2489.9
10°	2439.8	2437.2	2445.1	2445.1	2434.6	2447.8	2463.6
12.5°	2413.5	2408.2	2416.1	2413.5	2403.0	2416.1	2431.9
15°	2379.2	2376.6	2381.9	2376.6	2366.1	2379.2	2395.1
17.5°	2345.0	2337.1	2339.7	2339.7	2321.3	2334.5	2347.6
20°	2300.2	2289.7	2292.3	2289.7	2276.5	2284.4	2300.2
22.5°	2255.4	2239.6	2239.6	2237.0	2221.2	2231.7	2244.9
25°	2200.1	2181.6	2181.6	2179.0	2160.6	2168.5	2181.6
27.5°	2144.7	2126.3	2118.4	2115.8	2097.3	2097.3	2115.8
30°	2086.8	2060.4	2055.2	2047.3	2028.8	2028.8	2044.6
32.5°	2031.4	1994.6	1984.0	1973.5	1955.0	1952.4	1970.8
35°	1957.7	1928.7	1910.2	1899.7	1878.6	1873.4	1889.2
37.5°	1897.1	1860.2	1833.8	1820.7	1799.6	1791.7	1812.8
40°	1831.2	1791.7	1757.4	1749.5	1717.9	1707.4	1725.8
42.5°	1757.4	1715.3	1681.0	1665.2	1641.5	1631.0	1633.6
45°	1683.7	1638.9	1602.0	1580.9	1557.2	1538.7	1549.3
47.5°	1607.2	1567.7	1522.9	1491.3	1462.3	1449.2	1454.4
50°	1530.8	1483.4	1441.2	1407.0	1372.7	1356.9	1367.5
52.5°	1454.4	1404.4	1356.9	1320.0	1280.5	1264.7	1267.3
55°	1380.6	1328.0	1272.6	1233.1	1196.2	1172.5	1167.2
57.5°	1306.9	1248.9	1190.9	1146.1	1098.7	1077.6	1069.7
60°	1227.8	1167.2	1106.6	1053.9	1003.9	980.2	969.6
62.5°	1154.1	1088.2	1019.7	964.3	914.3	882.7	874.8
65°	1082.9	1006.5	938.0	874.8	819.4	785.2	774.6
67.5°	1006.5	927.5	853.7	785.2	732.5	687.7	682.4
70°	935.4	851.0	769.4	698.2	640.3	595.5	574.4
72.5°	864.2	777.3	693.0	616.5	542.8	500.6	484.8
75°	795.7	706.1	616.5	537.5	455.8	405.8	390.0
77.5°	732.5	640.3	545.4	458.5	382.0	318.8	297.7
80°	671.9	577.0	476.9	387.3	305.6	237.1	213.4
82.5°	608.6	519.1	416.3	321.4	237.1	166.0	137.0
85°	553.3	463.7	361.0	266.1	181.8	105.4	73.8
87.5°	508.5	411.0	318.8	224.0	137.0	60.6	21.1
90°	463.7	368.9	276.7	184.4	102.8	34.3	2.6
92.5°	424.2	334.6	242.4	158.1	79.0	23.7	2.6
95°	387.3	300.4	213.4	131.7	63.2	15.8	2.6
97.5°	353.1	271.4	189.7	113.3	52.7	13.2	2.6
100°	324.1	245.0	168.6	100.1	44.8	10.5	2.6
102.5°	295.1	221.3	150.2	86.9	39.5	7.9	2.6
105°	271.4	200.2	134.4	79.0	34.3	7.9	2.6
107.5°	247.7	181.8	121.2	68.5	29.0	5.3	2.6
110°	224.0	166.0	108.0	60.6	26.3	5.3	2.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	205.5	150.2	97.5	55.3	21.1	5.3	2.6
115°	187.1	134.4	86.9	47.4	18.4	2.6	2.6
117.5°	168.6	121.2	76.4	42.2	15.8	2.6	2.6
120°	152.8	108.0	68.5	36.9	13.2	2.6	2.6
122.5°	137.0	97.5	60.6	31.6	10.5	2.6	2.6
125°	123.8	86.9	52.7	26.3	7.9	2.6	2.6
127.5°	110.7	76.4	47.4	23.7	7.9	2.6	2.6
130°	97.5	68.5	39.5	18.4	5.3	2.6	2.6
132.5°	86.9	58.0	34.3	15.8	5.3	2.6	2.6
135°	76.4	50.1	29.0	10.5	5.3	2.6	2.6
137.5°	65.9	42.2	23.7	7.9	2.6	2.6	2.6
140°	55.3	36.9	18.4	7.9	2.6	2.6	2.6
142.5°	47.4	29.0	13.2	5.3	2.6	2.6	2.6
145°	36.9	23.7	10.5	5.3	2.6	2.6	2.6
147.5°	29.0	18.4	7.9	5.3	2.6	2.6	2.6
150°	21.1	13.2	7.9	2.6	2.6	2.6	2.6
152.5°	15.8	10.5	5.3	2.6	2.6	2.6	2.6
155°	10.5	7.9	5.3	2.6	2.6	2.6	2.6
157.5°	7.9	5.3	2.6	2.6	2.6	2.6	2.6
160°	5.3	2.6	2.6	2.6	2.6	2.6	2.6
162.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
165°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)