

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-LD5-170HL-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-LD5-170HL-LW-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

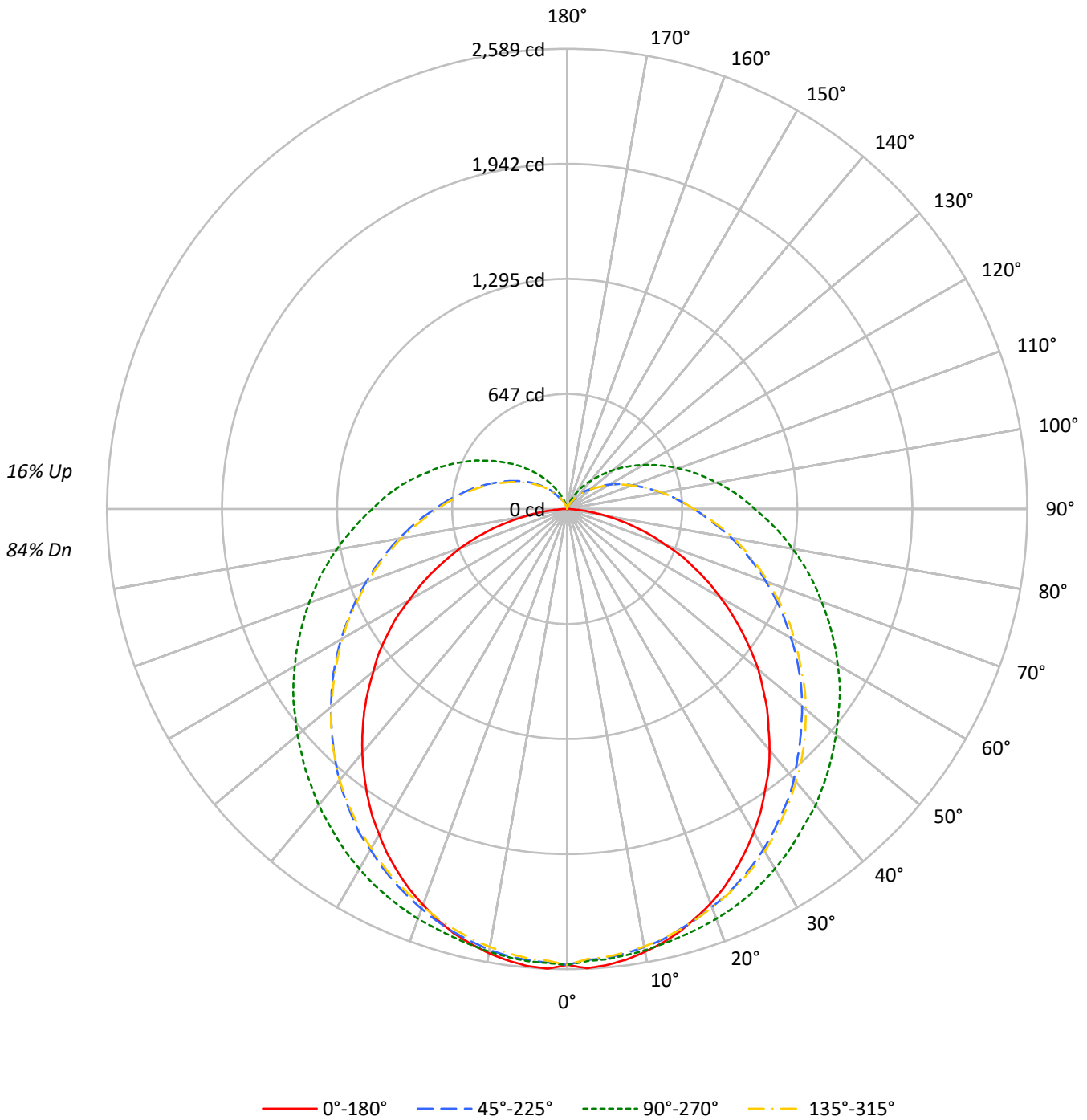
Lumens per Lamp: N/A
Luminaire Lumens: 11143.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 124
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			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°	10363	10363	10363	10363
5°	10432	9987	10454	10029
10°	10350	9703	10383	9734
15°	10244	9460	10289	9470
20°	10098	9283	10133	9283
25°	9915	9126	9975	9115
30°	9707	8963	9783	8963
35°	9465	8813	9570	8824
40°	9226	8725	9338	8725
45°	8950	8632	9087	8644
50°	8665	8577	8782	8601
55°	8258	8586	8520	8623
60°	7833	8612	8089	8665
65°	7358	8698	7684	8785
70°	6681	8858	7202	8984
75°	5906	9147	6465	9324
80°	4683	9577	5320	9799
85°	2982	10266	3725	10549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	2.2
10°-20°	698.3	6.3
20°-30°	1070.6	9.6
30°-40°	1320.8	11.9
40°-50°	1433.0	12.9
50°-60°	1412.4	12.7
60°-70°	1276.9	11.5
70°-80°	1063.8	9.5
80°-90°	824.0	7.4
90°-100°	624.9	5.6
100°-110°	462.4	4.1
110°-120°	321.7	2.9
120°-130°	205.2	1.8
130°-140°	115.2	1.0
140°-150°	52.6	0.5
150°-160°	16.3	0.1
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	2011.9	18.1
0°-40°	3332.6	29.9
0°-60°	6178.0	55.4
0°-90°	9342.7	83.8
90°-120°	1409.0	12.6
90°-150°	1782.0	16.0
90°-180°	1800.0	16.2
0°-180°	11143.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2565	2565	2565	2565	2565	
5°	2576	2543	2581	2554	2576	244
15°	2459	2489	2470	2492	2459	693
25°	2240	2405	2254	2402	2240	1032
35°	1940	2256	1962	2259	1940	1215
45°	1591	2078	1615	2080	1591	1225
55°	1198	1872	1236	1880	1198	1073
65°	795	1642	831	1658	795	788
75°	400	1407	438	1434	400	424
85°	76	1172	95	1204	76	92
90°	3	1055	5	1096	3	4
95°	3	958	3	1004	3	2
105°	3	760	3	806	3	3
115°	3	579	3	630	3	3
125°	3	417	3	463	3	2
135°	3	270	3	319	3	2
145°	3	157	3	192	3	2
155°	3	65	3	89	3	1
165°	3	11	3	16	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2586.4	2586.4	2583.7	2578.3	2581.0	2589.1	2583.7	2570.2	2562.1	2540.4	2545.9
5°	2575.6	2575.6	2572.9	2567.5	2570.2	2581.0	2575.6	2564.8	2554.0	2535.0	2543.1
7.5°	2556.7	2556.7	2554.0	2548.6	2554.0	2564.8	2559.4	2548.6	2540.4	2521.5	2529.6
10°	2529.6	2532.3	2529.6	2521.5	2532.3	2543.1	2540.4	2526.9	2518.8	2502.6	2510.7
12.5°	2497.2	2499.9	2497.2	2494.4	2499.9	2516.1	2510.7	2499.9	2494.4	2480.9	2489.0
15°	2459.3	2462.0	2456.6	2456.6	2462.0	2478.2	2478.2	2467.4	2462.0	2448.5	2464.7
17.5°	2410.6	2413.3	2410.6	2410.6	2416.0	2432.2	2434.9	2429.5	2424.1	2418.7	2434.9
20°	2361.9	2359.2	2359.2	2356.5	2367.3	2391.6	2388.9	2388.9	2383.5	2383.5	2402.5
22.5°	2305.1	2305.1	2302.4	2302.4	2315.9	2337.5	2337.5	2342.9	2337.5	2348.4	2364.6
25°	2240.1	2242.8	2240.1	2245.5	2256.4	2280.7	2283.4	2291.5	2294.2	2305.1	2324.0
27.5°	2172.5	2175.2	2172.5	2177.9	2196.8	2215.8	2229.3	2240.1	2242.8	2259.1	2283.4
30°	2099.4	2099.4	2102.2	2107.6	2129.2	2159.0	2169.8	2183.3	2183.3	2210.4	2234.7
32.5°	2023.7	2023.7	2023.7	2034.5	2058.9	2094.0	2107.6	2123.8	2129.2	2156.3	2183.3
35°	1939.8	1942.5	1942.5	1950.6	1983.1	2018.3	2037.2	2056.2	2067.0	2099.4	2126.5
37.5°	1861.4	1866.8	1858.7	1869.5	1915.5	1945.2	1966.9	1985.8	2004.8	2048.0	2069.7
40°	1772.1	1777.5	1774.8	1796.4	1834.3	1872.2	1896.5	1915.5	1942.5	1985.8	2010.2
42.5°	1677.4	1682.8	1688.2	1712.6	1753.1	1791.0	1820.8	1845.1	1877.6	1915.5	1956.1
45°	1590.8	1590.8	1598.9	1628.7	1672.0	1712.6	1747.7	1774.8	1812.7	1853.3	1893.8
47.5°	1493.4	1496.1	1507.0	1542.1	1588.1	1636.8	1669.3	1704.5	1745.0	1788.3	1834.3
50°	1404.1	1404.1	1420.4	1458.3	1501.5	1555.6	1590.8	1631.4	1674.7	1726.1	1772.1
52.5°	1301.3	1306.7	1331.1	1366.3	1423.1	1471.8	1512.4	1555.6	1607.1	1661.2	1712.6
55°	1198.5	1209.3	1228.3	1277.0	1336.5	1382.5	1431.2	1485.3	1534.0	1593.5	1653.0
57.5°	1098.4	1106.5	1136.3	1185.0	1247.2	1304.0	1355.4	1406.8	1466.4	1525.9	1588.1
60°	995.6	1006.4	1041.6	1090.3	1157.9	1217.5	1277.0	1331.1	1393.3	1455.5	1520.5
62.5°	898.2	906.3	946.9	1003.7	1071.4	1136.3	1195.8	1260.8	1328.4	1387.9	1452.8
65°	795.4	808.9	854.9	906.3	984.8	1049.7	1117.4	1187.7	1258.0	1323.0	1385.2
67.5°	700.7	708.8	757.5	817.1	895.5	968.6	1038.9	1114.7	1187.7	1255.3	1317.6
70°	589.8	616.8	665.5	727.8	811.6	887.4	963.1	1041.6	1120.1	1190.4	1249.9
72.5°	497.8	519.5	573.6	641.2	722.4	811.6	890.1	974.0	1052.4	1125.5	1187.7
75°	400.4	422.1	484.3	560.0	643.9	738.6	819.8	906.3	987.5	1060.5	1125.5
77.5°	305.7	332.8	400.4	478.9	570.9	668.3	752.1	838.7	922.6	1001.0	1066.0
80°	219.1	248.9	322.0	411.2	500.5	597.9	689.9	776.5	860.3	938.8	1006.4
82.5°	140.7	173.2	251.6	340.9	435.6	533.0	627.7	714.2	798.1	876.6	946.9
85°	75.8	110.9	192.1	281.4	376.1	473.5	568.2	660.1	741.3	814.3	890.1
87.5°	21.6	64.9	143.4	232.7	330.1	419.3	511.3	603.3	684.5	762.9	830.6
90°	2.7	37.9	108.2	192.1	286.8	373.4	465.3	551.9	633.1	711.5	779.2
92.5°	2.7	24.3	83.9	159.6	246.2	335.5	427.5	511.3	587.1	665.5	733.2
95°	2.7	18.9	67.6	135.3	216.4	300.3	386.9	468.0	546.5	619.6	687.2
97.5°	2.7	13.5	54.1	116.3	189.4	267.8	351.7	432.9	508.6	579.0	641.2
100°	2.7	10.8	43.3	100.1	165.0	240.8	316.5	395.0	468.0	535.7	600.6
102.5°	2.7	8.1	37.9	83.9	146.1	213.7	286.8	359.8	430.2	495.1	560.0
105°	2.7	8.1	32.5	73.0	129.9	192.1	259.7	330.1	395.0	457.2	516.7
107.5°	2.7	5.4	27.1	62.2	113.6	173.2	235.4	303.0	362.5	422.1	478.9
110°	2.7	5.4	21.6	56.8	100.1	154.2	213.7	276.0	332.8	389.6	443.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.7	5.4	18.9	48.7	86.6	138.0	192.1	248.9	303.0	359.8	408.5
115°	2.7	5.4	16.2	43.3	81.2	119.0	173.2	224.6	278.7	330.1	376.1
117.5°	2.7	5.4	13.5	35.2	70.3	108.2	151.5	202.9	251.6	300.3	343.6
120°	2.7	5.4	10.8	32.5	62.2	97.4	135.3	181.3	227.3	273.3	319.2
122.5°	2.7	2.7	10.8	27.1	54.1	86.6	124.5	159.6	202.9	246.2	286.8
125°	2.7	2.7	10.8	24.3	46.0	78.5	110.9	143.4	181.3	219.1	254.3
127.5°	2.7	2.7	8.1	18.9	40.6	67.6	97.4	132.6	159.6	194.8	230.0
130°	2.7	2.7	8.1	16.2	35.2	56.8	86.6	116.3	148.8	173.2	202.9
132.5°	2.7	2.7	8.1	13.5	27.1	46.0	73.0	100.1	129.9	156.9	181.3
135°	2.7	2.7	5.4	10.8	21.6	37.9	59.5	83.9	113.6	140.7	165.0
137.5°	2.7	2.7	5.4	10.8	16.2	32.5	46.0	67.6	94.7	119.0	143.4
140°	2.7	2.7	5.4	8.1	13.5	24.3	37.9	54.1	75.8	97.4	124.5
142.5°	2.7	2.7	2.7	8.1	10.8	18.9	29.8	43.3	59.5	78.5	100.1
145°	2.7	2.7	2.7	8.1	10.8	13.5	24.3	35.2	46.0	59.5	78.5
147.5°	2.7	2.7	2.7	5.4	8.1	10.8	18.9	27.1	35.2	46.0	56.8
150°	2.7	2.7	2.7	5.4	8.1	10.8	13.5	18.9	27.1	37.9	46.0
152.5°	2.7	2.7	2.7	5.4	5.4	8.1	10.8	13.5	18.9	27.1	32.5
155°	2.7	2.7	2.7	2.7	5.4	8.1	10.8	10.8	13.5	18.9	24.3
157.5°	2.7	2.7	2.7	2.7	5.4	5.4	8.1	8.1	10.8	10.8	16.2
160°	2.7	2.7	2.7	2.7	2.7	5.4	5.4	8.1	8.1	8.1	8.1
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	5.4	8.1	8.1
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	5.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2545.9	2548.6	2556.7	2556.7	2551.3	2551.3	2548.6	2545.9	2548.6	2554.0	2554.0
5°	2540.4	2543.1	2551.3	2554.0	2548.6	2545.9	2545.9	2543.1	2545.9	2551.3	2551.3
7.5°	2529.6	2532.3	2540.4	2543.1	2537.7	2537.7	2535.0	2532.3	2537.7	2540.4	2540.4
10°	2513.4	2516.1	2526.9	2529.6	2526.9	2524.2	2524.2	2521.5	2524.2	2529.6	2529.6
12.5°	2491.7	2497.2	2510.7	2510.7	2510.7	2508.0	2508.0	2505.3	2508.0	2513.4	2510.7
15°	2467.4	2478.2	2489.0	2494.4	2494.4	2494.4	2491.7	2489.0	2494.4	2497.2	2494.4
17.5°	2440.3	2453.9	2470.1	2475.5	2475.5	2478.2	2475.5	2472.8	2478.2	2478.2	2475.5
20°	2413.3	2426.8	2443.0	2448.5	2453.9	2456.6	2456.6	2453.9	2456.6	2459.3	2456.6
22.5°	2378.1	2394.3	2413.3	2421.4	2426.8	2432.2	2432.2	2432.2	2434.9	2437.6	2432.2
25°	2340.2	2359.2	2380.8	2388.9	2399.8	2402.5	2405.2	2405.2	2407.9	2410.6	2402.5
27.5°	2299.7	2321.3	2342.9	2356.5	2364.6	2370.0	2370.0	2372.7	2375.4	2378.1	2370.0
30°	2251.0	2283.4	2302.4	2313.2	2324.0	2332.1	2334.8	2337.5	2340.2	2342.9	2334.8
32.5°	2207.7	2234.7	2259.1	2272.6	2286.1	2296.9	2299.7	2299.7	2305.1	2305.1	2296.9
35°	2156.3	2188.7	2213.1	2226.6	2242.8	2251.0	2256.4	2256.4	2261.8	2261.8	2253.7
37.5°	2104.9	2137.3	2164.4	2180.6	2199.6	2210.4	2213.1	2213.1	2218.5	2218.5	2207.7
40°	2050.8	2085.9	2115.7	2134.6	2150.9	2164.4	2167.1	2175.2	2175.2	2172.5	2161.7
42.5°	1996.6	2029.1	2061.6	2083.2	2104.9	2118.4	2123.8	2126.5	2126.5	2123.8	2115.7
45°	1937.1	1975.0	2004.8	2031.8	2053.5	2067.0	2075.1	2077.8	2077.8	2072.4	2064.3
47.5°	1880.3	1918.2	1947.9	1977.7	1999.3	2015.6	2023.7	2026.4	2023.7	2021.0	2012.9
50°	1820.8	1864.1	1893.8	1923.6	1945.2	1958.8	1972.3	1975.0	1972.3	1969.6	1953.4
52.5°	1758.6	1804.6	1837.0	1866.8	1891.1	1907.4	1918.2	1920.9	1920.9	1915.5	1904.7
55°	1696.3	1736.9	1777.5	1810.0	1837.0	1853.3	1866.8	1872.2	1866.8	1861.4	1847.8
57.5°	1639.5	1677.4	1718.0	1753.1	1780.2	1801.8	1812.7	1818.1	1812.7	1804.6	1791.0
60°	1571.9	1612.5	1658.5	1690.9	1720.7	1742.3	1747.7	1758.6	1753.1	1745.0	1731.5
62.5°	1507.0	1555.6	1596.2	1636.8	1661.2	1685.5	1696.3	1701.7	1696.3	1688.2	1674.7
65°	1439.3	1493.4	1534.0	1574.6	1601.6	1626.0	1639.5	1642.2	1636.8	1628.7	1615.2
67.5°	1377.1	1428.5	1471.8	1515.1	1539.4	1563.8	1577.3	1582.7	1577.3	1566.5	1552.9
70°	1314.9	1366.3	1417.7	1450.1	1479.9	1507.0	1515.1	1523.2	1517.8	1507.0	1490.7
72.5°	1252.6	1306.7	1358.1	1390.6	1423.1	1447.4	1458.3	1466.4	1461.0	1450.1	1431.2
75°	1187.7	1244.5	1295.9	1331.1	1363.6	1387.9	1398.7	1406.8	1401.4	1390.6	1369.0
77.5°	1128.2	1185.0	1233.7	1271.6	1304.0	1325.7	1344.6	1347.3	1341.9	1331.1	1309.5
80°	1066.0	1122.8	1174.2	1212.1	1244.5	1266.2	1279.7	1287.8	1282.4	1271.6	1249.9
82.5°	1011.8	1063.3	1114.7	1152.5	1185.0	1212.1	1222.9	1231.0	1228.3	1212.1	1195.8
85°	952.3	1011.8	1052.4	1093.0	1125.5	1152.5	1160.6	1171.5	1168.8	1155.2	1133.6
87.5°	892.8	952.3	1001.0	1041.6	1071.4	1093.0	1106.5	1112.0	1109.2	1095.7	1071.4
90°	844.1	898.2	946.9	990.2	1014.6	1038.9	1052.4	1055.1	1055.1	1038.9	1020.0
92.5°	798.1	849.5	898.2	938.8	968.6	990.2	1001.0	1006.4	1003.7	990.2	968.6
95°	746.7	803.5	849.5	890.1	919.9	941.5	952.3	957.7	955.0	941.5	919.9
97.5°	703.4	754.8	800.8	838.7	868.5	890.1	900.9	906.3	906.3	892.8	871.2
100°	660.1	711.5	754.8	792.7	819.8	841.4	852.2	854.9	852.2	841.4	819.8
102.5°	616.8	665.5	708.8	744.0	773.8	792.7	803.5	806.2	806.2	792.7	771.1
105°	573.6	622.3	662.8	700.7	725.1	744.0	752.1	760.2	757.5	746.7	725.1
107.5°	533.0	581.7	619.6	654.7	679.1	698.0	706.1	714.2	711.5	700.7	679.1
110°	495.1	541.1	576.3	611.4	633.1	652.0	665.5	668.3	662.8	652.0	633.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	459.9	500.5	535.7	568.2	592.5	606.0	616.8	622.3	616.8	606.0	592.5
115°	422.1	462.6	497.8	527.6	549.2	565.4	573.6	579.0	573.6	562.7	549.2
117.5°	386.9	424.8	459.9	489.7	508.6	522.2	530.3	535.7	530.3	522.2	508.6
120°	357.1	389.6	422.1	449.1	470.8	481.6	489.7	495.1	492.4	481.6	468.0
122.5°	322.0	357.1	386.9	413.9	432.9	443.7	449.1	454.5	451.8	443.7	430.2
125°	292.2	322.0	351.7	376.1	395.0	405.8	411.2	416.6	413.9	405.8	389.6
127.5°	259.7	292.2	316.5	340.9	354.4	370.7	373.4	378.8	376.1	367.9	354.4
130°	235.4	259.7	284.1	305.7	322.0	332.8	338.2	340.9	335.5	330.1	316.5
132.5°	205.6	232.7	254.3	273.3	284.1	294.9	300.3	303.0	303.0	294.9	284.1
135°	184.0	202.9	221.8	240.8	251.6	262.4	267.8	270.5	267.8	262.4	251.6
137.5°	165.0	181.3	194.8	211.0	224.6	230.0	235.4	235.4	232.7	230.0	221.8
140°	143.4	162.3	175.9	186.7	197.5	200.2	205.6	205.6	202.9	200.2	194.8
142.5°	121.7	138.0	151.5	165.0	173.2	178.6	181.3	184.0	181.3	178.6	170.4
145°	97.4	116.3	129.9	138.0	148.8	151.5	154.2	156.9	154.2	151.5	143.4
147.5°	75.8	92.0	105.5	116.3	124.5	127.2	129.9	132.6	129.9	124.5	121.7
150°	54.1	67.6	83.9	94.7	100.1	105.5	105.5	105.5	108.2	102.8	97.4
152.5°	43.3	48.7	59.5	70.3	78.5	81.2	83.9	83.9	81.2	81.2	75.8
155°	29.8	35.2	43.3	51.4	59.5	62.2	64.9	64.9	62.2	62.2	59.5
157.5°	18.9	24.3	29.8	35.2	43.3	46.0	48.7	48.7	48.7	46.0	43.3
160°	10.8	13.5	16.2	21.6	27.1	29.8	32.5	32.5	32.5	32.5	29.8
162.5°	8.1	8.1	8.1	10.8	13.5	16.2	18.9	18.9	18.9	18.9	16.2
165°	5.4	5.4	5.4	5.4	5.4	8.1	10.8	10.8	10.8	10.8	10.8
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-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2551.3	2551.3	2554.0	2548.6	2532.3	2535.0	2535.0	2545.9	2551.3	2554.0	2567.5
5°	2545.9	2545.9	2551.3	2543.1	2529.6	2529.6	2529.6	2540.4	2543.1	2548.6	2559.4
7.5°	2537.7	2537.7	2540.4	2532.3	2516.1	2516.1	2513.4	2524.2	2529.6	2532.3	2543.1
10°	2524.2	2524.2	2526.9	2518.8	2499.9	2499.9	2497.2	2505.3	2508.0	2513.4	2521.5
12.5°	2505.3	2505.3	2505.3	2497.2	2478.2	2475.5	2472.8	2480.9	2480.9	2483.6	2491.7
15°	2489.0	2483.6	2483.6	2475.5	2456.6	2451.2	2445.8	2448.5	2453.9	2451.2	2456.6
17.5°	2470.1	2464.7	2459.3	2451.2	2426.8	2418.7	2413.3	2416.0	2413.3	2410.6	2416.0
20°	2448.5	2440.3	2437.6	2424.1	2399.8	2386.2	2375.4	2370.0	2372.7	2364.6	2367.3
22.5°	2424.1	2413.3	2407.9	2391.6	2367.3	2351.1	2337.5	2326.7	2324.0	2313.2	2315.9
25°	2394.3	2380.8	2372.7	2359.2	2332.1	2313.2	2296.9	2280.7	2272.6	2259.1	2256.4
27.5°	2359.2	2345.6	2334.8	2321.3	2294.2	2269.9	2251.0	2229.3	2218.5	2202.3	2194.1
30°	2324.0	2307.8	2291.5	2280.7	2251.0	2223.9	2194.1	2175.2	2159.0	2140.0	2126.5
32.5°	2280.7	2264.5	2248.3	2232.0	2205.0	2172.5	2148.1	2118.4	2099.4	2077.8	2061.6
35°	2237.4	2215.8	2199.6	2177.9	2153.6	2115.7	2085.9	2056.2	2031.8	2007.5	1988.5
37.5°	2188.7	2172.5	2148.1	2129.2	2099.4	2061.6	2029.1	1991.2	1969.6	1937.1	1912.8
40°	2142.7	2123.8	2099.4	2075.1	2045.3	2002.1	1966.9	1923.6	1899.2	1861.4	1837.0
42.5°	2096.7	2069.7	2045.3	2018.3	1985.8	1945.2	1901.9	1858.7	1826.2	1791.0	1755.9
45°	2045.3	2015.6	1985.8	1956.1	1923.6	1883.0	1837.0	1791.0	1750.4	1718.0	1674.7
47.5°	1991.2	1961.5	1926.3	1893.8	1858.7	1818.1	1769.4	1720.7	1677.4	1639.5	1593.5
50°	1937.1	1907.4	1869.5	1834.3	1793.7	1753.1	1701.7	1644.9	1598.9	1550.2	1509.7
52.5°	1880.3	1850.5	1815.4	1769.4	1726.1	1685.5	1631.4	1571.9	1520.5	1479.9	1428.5
55°	1823.5	1793.7	1753.1	1707.2	1663.9	1612.5	1561.1	1501.5	1444.7	1396.0	1344.6
57.5°	1764.0	1736.9	1690.9	1653.0	1598.9	1544.8	1490.7	1433.9	1371.7	1314.9	1255.3
60°	1704.5	1674.7	1631.4	1585.4	1531.3	1477.2	1420.4	1358.1	1293.2	1231.0	1176.9
62.5°	1650.3	1612.5	1571.9	1523.2	1466.4	1415.0	1350.0	1282.4	1217.5	1152.5	1087.6
65°	1588.1	1547.5	1509.7	1461.0	1401.4	1341.9	1277.0	1209.3	1139.0	1068.7	1003.7
67.5°	1525.9	1485.3	1444.7	1396.0	1333.8	1271.6	1203.9	1136.3	1057.8	990.2	914.5
70°	1463.7	1431.2	1379.8	1328.4	1271.6	1203.9	1136.3	1063.3	982.1	909.0	830.6
72.5°	1401.4	1369.0	1317.6	1263.5	1209.3	1139.0	1066.0	992.9	917.2	833.3	749.4
75°	1341.9	1301.3	1255.3	1203.9	1147.1	1074.1	1001.0	925.3	836.0	757.5	671.0
77.5°	1285.1	1247.2	1201.2	1144.4	1082.2	1011.8	936.1	857.6	768.4	684.5	589.8
80°	1222.9	1185.0	1139.0	1082.2	1020.0	952.3	871.2	790.0	703.4	611.4	514.0
82.5°	1163.4	1128.2	1076.8	1025.4	957.7	890.1	808.9	727.8	635.8	546.5	451.8
85°	1101.1	1066.0	1017.3	963.1	898.2	825.2	749.4	668.3	576.3	484.3	389.6
87.5°	1047.0	1006.4	957.7	903.6	838.7	768.4	695.3	608.7	519.5	430.2	332.8
90°	990.2	952.3	903.6	849.5	784.6	714.2	638.5	557.3	470.8	378.8	286.8
92.5°	941.5	900.9	854.9	800.8	735.9	668.3	592.5	511.3	427.5	338.2	248.9
95°	892.8	852.2	808.9	754.8	689.9	622.3	546.5	468.0	386.9	300.3	216.4
97.5°	838.7	803.5	760.2	708.8	643.9	579.0	505.9	430.2	351.7	267.8	189.4
100°	795.4	754.8	714.2	660.1	600.6	538.4	465.3	392.3	316.5	238.1	165.0
102.5°	746.7	708.8	668.3	616.8	557.3	495.1	427.5	357.1	286.8	213.7	143.4
105°	700.7	665.5	622.3	573.6	516.7	457.2	392.3	327.4	259.7	189.4	127.2
107.5°	654.7	619.6	579.0	533.0	478.9	419.3	359.8	294.9	232.7	170.4	113.6
110°	608.7	576.3	538.4	492.4	441.0	386.9	330.1	270.5	208.3	151.5	100.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	568.2	535.7	497.8	454.5	405.8	354.4	300.3	243.5	186.7	135.3	86.6
115°	527.6	497.8	459.9	422.1	373.4	324.7	273.3	219.1	167.7	121.7	75.8
117.5°	487.0	457.2	422.1	384.2	340.9	294.9	246.2	194.8	151.5	108.2	67.6
120°	446.4	419.3	386.9	351.7	313.8	267.8	219.1	175.9	135.3	94.7	59.5
122.5°	408.5	384.2	354.4	322.0	281.4	238.1	197.5	159.6	121.7	83.9	48.7
125°	373.4	349.0	322.0	289.5	251.6	213.7	178.6	143.4	105.5	73.0	40.6
127.5°	338.2	313.8	286.8	257.0	227.3	192.1	159.6	127.2	94.7	64.9	35.2
130°	303.0	281.4	257.0	232.7	202.9	170.4	143.4	110.9	81.2	51.4	29.8
132.5°	267.8	251.6	230.0	205.6	178.6	154.2	124.5	97.4	70.3	46.0	27.1
135°	238.1	221.8	202.9	181.3	159.6	135.3	108.2	83.9	59.5	37.9	21.6
137.5°	211.0	197.5	178.6	159.6	140.7	116.3	94.7	70.3	48.7	32.5	16.2
140°	186.7	173.2	156.9	138.0	121.7	100.1	78.5	56.8	43.3	27.1	13.5
142.5°	162.3	148.8	135.3	119.0	102.8	83.9	64.9	48.7	35.2	21.6	13.5
145°	138.0	127.2	113.6	100.1	83.9	67.6	54.1	40.6	27.1	16.2	10.8
147.5°	113.6	105.5	92.0	81.2	67.6	54.1	43.3	32.5	21.6	13.5	8.1
150°	92.0	83.9	73.0	62.2	54.1	43.3	35.2	24.3	16.2	13.5	8.1
152.5°	70.3	64.9	56.8	51.4	43.3	32.5	24.3	18.9	13.5	10.8	5.4
155°	56.8	51.4	46.0	37.9	32.5	24.3	18.9	13.5	10.8	8.1	5.4
157.5°	40.6	37.9	32.5	27.1	21.6	16.2	13.5	13.5	8.1	5.4	2.7
160°	27.1	24.3	21.6	16.2	13.5	13.5	10.8	8.1	5.4	5.4	2.7
162.5°	16.2	13.5	13.5	13.5	10.8	10.8	8.1	5.4	5.4	2.7	2.7
165°	10.8	10.8	10.8	8.1	8.1	8.1	5.4	2.7	2.7	2.7	2.7
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-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2567.5	2559.4	2570.2	2589.1	2591.8	2589.1	2583.7	2591.8	2602.7	2600.0	2581.0
5°	2562.1	2551.3	2562.1	2581.0	2581.0	2578.3	2575.6	2583.7	2594.6	2591.8	2575.6
7.5°	2545.9	2535.0	2545.9	2562.1	2564.8	2559.4	2559.4	2567.5	2578.3	2575.6	2562.1
10°	2524.2	2513.4	2518.8	2537.7	2543.1	2537.7	2537.7	2545.9	2559.4	2556.7	2540.4
12.5°	2491.7	2483.6	2489.0	2505.3	2510.7	2508.0	2505.3	2516.1	2529.6	2529.6	2513.4
15°	2456.6	2445.8	2451.2	2470.1	2472.8	2467.4	2470.1	2478.2	2494.4	2494.4	2480.9
17.5°	2416.0	2402.5	2410.6	2424.1	2426.8	2426.8	2426.8	2437.6	2456.6	2453.9	2443.0
20°	2370.0	2351.1	2356.5	2370.0	2375.4	2375.4	2375.4	2394.3	2407.9	2407.9	2397.1
22.5°	2315.9	2302.4	2302.4	2315.9	2324.0	2321.3	2321.3	2337.5	2356.5	2353.8	2353.8
25°	2253.7	2242.8	2237.4	2253.7	2256.4	2259.1	2264.5	2280.7	2302.4	2302.4	2305.1
27.5°	2188.7	2177.9	2175.2	2188.7	2191.4	2194.1	2199.6	2218.5	2240.1	2242.8	2248.3
30°	2126.5	2110.3	2104.9	2115.7	2121.1	2123.8	2123.8	2153.6	2172.5	2180.6	2191.4
32.5°	2053.5	2037.2	2023.7	2042.6	2045.3	2050.8	2053.5	2083.2	2104.9	2118.4	2134.6
35°	1980.4	1953.4	1947.9	1961.5	1966.9	1969.6	1975.0	2007.5	2037.2	2048.0	2069.7
37.5°	1899.2	1880.3	1864.1	1877.6	1883.0	1885.7	1901.9	1931.7	1961.5	1977.7	1999.3
40°	1823.5	1799.1	1785.6	1793.7	1799.1	1801.8	1820.8	1853.3	1888.4	1907.4	1934.4
42.5°	1739.6	1707.2	1696.3	1704.5	1707.2	1715.3	1731.5	1774.8	1810.0	1837.0	1858.7
45°	1655.8	1631.4	1607.1	1615.2	1617.9	1623.3	1647.6	1693.6	1731.5	1764.0	1788.3
47.5°	1569.2	1539.4	1515.1	1520.5	1531.3	1534.0	1561.1	1615.2	1650.3	1685.5	1718.0
50°	1482.6	1442.0	1423.1	1423.1	1428.5	1442.0	1477.2	1531.3	1569.2	1609.8	1644.9
52.5°	1393.3	1355.4	1333.8	1336.5	1341.9	1358.1	1390.6	1444.7	1488.0	1531.3	1574.6
55°	1304.0	1263.5	1241.8	1236.4	1241.8	1263.5	1301.3	1358.1	1401.4	1452.8	1498.8
57.5°	1214.8	1166.1	1147.1	1139.0	1144.4	1171.5	1209.3	1268.9	1323.0	1371.7	1425.8
60°	1117.4	1079.5	1047.0	1028.1	1041.6	1076.8	1117.4	1179.6	1236.4	1290.5	1350.0
62.5°	1033.5	984.8	949.6	930.7	944.2	974.0	1030.8	1090.3	1152.5	1214.8	1274.3
65°	938.8	890.1	849.5	830.6	844.1	879.3	936.1	1001.0	1068.7	1130.9	1201.2
67.5°	846.8	795.4	746.7	727.8	744.0	781.9	844.1	917.2	990.2	1055.1	1130.9
70°	757.5	700.7	649.3	635.8	646.6	698.0	757.5	830.6	906.3	982.1	1060.5
72.5°	676.4	606.0	551.9	535.7	549.2	606.0	673.7	749.4	830.6	911.7	995.6
75°	581.7	516.7	457.2	438.3	454.5	505.9	589.8	671.0	757.5	844.1	922.6
77.5°	505.9	430.2	367.9	338.2	365.2	430.2	511.3	597.9	687.2	776.5	865.8
80°	427.5	349.0	281.4	248.9	278.7	349.0	430.2	524.9	625.0	714.2	795.4
82.5°	357.1	273.3	202.9	167.7	200.2	278.7	367.9	462.6	560.0	649.3	744.0
85°	292.2	205.6	132.6	94.7	140.7	211.0	305.7	403.1	503.2	595.2	687.2
87.5°	238.1	154.2	81.2	40.6	86.6	165.0	254.3	351.7	451.8	543.8	630.4
90°	194.8	110.9	43.3	5.4	51.4	124.5	211.0	305.7	400.4	495.1	581.7
92.5°	159.6	83.9	24.3	2.7	32.5	100.1	181.3	270.5	362.5	454.5	538.4
95°	132.6	64.9	16.2	2.7	24.3	78.5	154.2	240.8	327.4	416.6	500.5
97.5°	113.6	54.1	13.5	2.7	18.9	67.6	132.6	213.7	297.6	381.5	462.6
100°	97.4	43.3	10.8	2.7	16.2	56.8	116.3	189.4	267.8	349.0	427.5
102.5°	83.9	35.2	8.1	2.7	13.5	48.7	102.8	170.4	240.8	319.2	395.0
105°	73.0	29.8	8.1	2.7	10.8	43.3	92.0	151.5	221.8	292.2	365.2
107.5°	62.2	24.3	5.4	2.7	8.1	35.2	81.2	138.0	200.2	267.8	335.5
110°	54.1	21.6	5.4	2.7	8.1	32.5	70.3	124.5	181.3	243.5	308.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	46.0	16.2	5.4	2.7	5.4	27.1	62.2	110.9	165.0	221.8	284.1
115°	40.6	13.5	2.7	2.7	5.4	24.3	56.8	100.1	148.8	202.9	259.7
117.5°	32.5	10.8	2.7	2.7	2.7	18.9	48.7	89.3	135.3	186.7	238.1
120°	27.1	10.8	2.7	2.7	2.7	16.2	43.3	78.5	121.7	167.7	216.4
122.5°	24.3	8.1	2.7	2.7	2.7	13.5	37.9	70.3	108.2	151.5	197.5
125°	21.6	8.1	2.7	2.7	2.7	10.8	32.5	62.2	97.4	135.3	178.6
127.5°	16.2	8.1	2.7	2.7	2.7	8.1	29.8	54.1	86.6	121.7	159.6
130°	13.5	5.4	2.7	2.7	2.7	8.1	24.3	48.7	75.8	108.2	143.4
132.5°	10.8	5.4	2.7	2.7	2.7	5.4	18.9	37.9	64.9	94.7	127.2
135°	10.8	5.4	2.7	2.7	2.7	5.4	13.5	32.5	54.1	81.2	108.2
137.5°	10.8	2.7	2.7	2.7	2.7	5.4	10.8	24.3	43.3	64.9	89.3
140°	8.1	2.7	2.7	2.7	2.7	2.7	8.1	18.9	35.2	54.1	75.8
142.5°	8.1	2.7	2.7	2.7	2.7	2.7	8.1	13.5	27.1	43.3	59.5
145°	5.4	2.7	2.7	2.7	2.7	2.7	5.4	10.8	21.6	32.5	48.7
147.5°	5.4	2.7	2.7	2.7	2.7	2.7	5.4	8.1	16.2	27.1	37.9
150°	5.4	2.7	2.7	2.7	2.7	2.7	5.4	8.1	10.8	18.9	29.8
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	8.1	13.5	18.9
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.1	10.8	13.5
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	8.1	10.8
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	8.1
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2572.9	2554.0	2559.4	2556.7	2562.1	2570.2	2570.2	2567.5	2567.5	2562.1	2556.7
5°	2567.5	2548.6	2556.7	2554.0	2559.4	2567.5	2567.5	2564.8	2564.8	2556.7	2554.0
7.5°	2551.3	2537.7	2543.1	2543.1	2548.6	2556.7	2556.7	2554.0	2554.0	2545.9	2543.1
10°	2535.0	2518.8	2526.9	2526.9	2532.3	2543.1	2543.1	2540.4	2540.4	2532.3	2529.6
12.5°	2508.0	2491.7	2505.3	2508.0	2513.4	2524.2	2521.5	2521.5	2521.5	2513.4	2510.7
15°	2475.5	2464.7	2478.2	2480.9	2489.0	2502.6	2502.6	2502.6	2502.6	2494.4	2491.7
17.5°	2440.3	2432.2	2445.8	2451.2	2462.0	2475.5	2475.5	2478.2	2480.9	2475.5	2472.8
20°	2399.8	2394.3	2407.9	2418.7	2434.9	2448.5	2453.9	2456.6	2462.0	2456.6	2453.9
22.5°	2353.8	2353.8	2372.7	2383.5	2402.5	2416.0	2424.1	2432.2	2437.6	2432.2	2429.5
25°	2302.4	2310.5	2329.4	2348.4	2370.0	2383.5	2391.6	2402.5	2407.9	2405.2	2402.5
27.5°	2253.7	2264.5	2288.8	2307.8	2326.7	2348.4	2356.5	2370.0	2375.4	2375.4	2372.7
30°	2196.8	2213.1	2240.1	2261.8	2286.1	2307.8	2318.6	2332.1	2340.2	2334.8	2337.5
32.5°	2142.7	2169.8	2191.4	2215.8	2242.8	2264.5	2278.0	2294.2	2302.4	2299.7	2302.4
35°	2083.2	2110.3	2140.0	2164.4	2196.8	2218.5	2237.4	2251.0	2261.8	2259.1	2259.1
37.5°	2018.3	2053.5	2083.2	2115.7	2145.4	2169.8	2188.7	2205.0	2215.8	2215.8	2215.8
40°	1956.1	1993.9	2023.7	2061.6	2099.4	2121.1	2142.7	2159.0	2169.8	2172.5	2175.2
42.5°	1888.4	1929.0	1964.2	2004.8	2042.6	2069.7	2094.0	2113.0	2123.8	2129.2	2126.5
45°	1826.2	1864.1	1904.7	1950.6	1985.8	2012.9	2042.6	2064.3	2075.1	2077.8	2080.5
47.5°	1755.9	1799.1	1845.1	1891.1	1926.3	1961.5	1988.5	2010.2	2021.0	2029.1	2029.1
50°	1688.2	1734.2	1785.6	1834.3	1872.2	1907.4	1934.4	1958.8	1972.3	1977.7	1980.4
52.5°	1626.0	1669.3	1723.4	1772.1	1810.0	1845.1	1880.3	1907.4	1920.9	1926.3	1926.3
55°	1550.2	1604.3	1663.9	1709.9	1750.4	1791.0	1826.2	1853.3	1866.8	1874.9	1880.3
57.5°	1479.9	1536.7	1598.9	1647.6	1696.3	1734.2	1766.7	1801.8	1812.7	1823.5	1826.2
60°	1412.3	1469.1	1528.6	1582.7	1631.4	1672.0	1709.9	1739.6	1758.6	1764.0	1769.4
62.5°	1341.9	1401.4	1463.7	1517.8	1569.2	1617.9	1653.0	1680.1	1701.7	1709.9	1715.3
65°	1274.3	1336.5	1398.7	1455.5	1509.7	1558.4	1593.5	1620.6	1642.2	1655.8	1658.5
67.5°	1201.2	1268.9	1333.8	1393.3	1447.4	1498.8	1534.0	1561.1	1582.7	1598.9	1601.6
70°	1133.6	1203.9	1268.9	1333.8	1387.9	1439.3	1477.2	1504.2	1528.6	1539.4	1544.8
72.5°	1068.7	1141.7	1209.3	1274.3	1328.4	1379.8	1420.4	1447.4	1471.8	1485.3	1488.0
75°	1006.4	1079.5	1152.5	1214.8	1271.6	1323.0	1363.6	1393.3	1415.0	1428.5	1433.9
77.5°	944.2	1020.0	1093.0	1155.2	1214.8	1266.2	1301.3	1336.5	1358.1	1374.4	1374.4
80°	882.0	960.4	1036.2	1098.4	1157.9	1203.9	1244.5	1279.7	1301.3	1317.6	1317.6
82.5°	827.9	903.6	976.7	1038.9	1098.4	1149.8	1190.4	1222.9	1247.2	1258.0	1260.8
85°	765.6	849.5	917.2	984.8	1041.6	1090.3	1130.9	1166.1	1187.7	1198.5	1203.9
87.5°	714.2	795.4	868.5	928.0	984.8	1033.5	1079.5	1109.2	1130.9	1144.4	1149.8
90°	665.5	744.0	817.1	876.6	936.1	982.1	1025.4	1055.1	1079.5	1090.3	1095.7
92.5°	622.3	700.7	771.1	830.6	887.4	938.8	979.4	1009.1	1030.8	1041.6	1049.7
95°	581.7	657.4	725.1	790.0	844.1	890.1	933.4	963.1	987.5	995.6	1003.7
97.5°	541.1	614.1	681.8	744.0	800.8	844.1	884.7	914.5	933.4	946.9	955.0
100°	505.9	576.3	641.2	700.7	754.8	795.4	838.7	865.8	884.7	895.5	906.3
102.5°	468.0	538.4	600.6	657.4	714.2	752.1	792.7	819.8	836.0	854.9	854.9
105°	435.6	500.5	562.7	616.8	665.5	711.5	746.7	773.8	792.7	806.2	806.2
107.5°	400.4	465.3	524.9	581.7	627.7	671.0	703.4	727.8	749.4	757.5	765.6
110°	373.4	430.2	489.7	543.8	587.1	627.7	660.1	687.2	706.1	714.2	719.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	340.9	400.4	454.5	505.9	549.2	587.1	619.6	641.2	660.1	671.0	673.7
115°	313.8	370.7	419.3	468.0	514.0	546.5	576.3	597.9	616.8	625.0	630.4
117.5°	289.5	340.9	389.6	430.2	473.5	508.6	538.4	557.3	573.6	584.4	589.8
120°	265.1	313.8	357.1	397.7	438.3	470.8	497.8	516.7	535.7	543.8	543.8
122.5°	240.8	286.8	327.4	365.2	403.1	432.9	462.6	478.9	495.1	503.2	503.2
125°	219.1	262.4	300.3	335.5	370.7	397.7	422.1	441.0	457.2	462.6	462.6
127.5°	197.5	238.1	273.3	305.7	335.5	362.5	386.9	405.8	419.3	424.8	424.8
130°	178.6	213.7	246.2	278.7	308.4	330.1	354.4	370.7	378.8	386.9	389.6
132.5°	159.6	192.1	221.8	248.9	278.7	300.3	319.2	335.5	343.6	351.7	354.4
135°	140.7	170.4	197.5	224.6	248.9	270.5	286.8	300.3	311.1	316.5	319.2
137.5°	119.0	151.5	175.9	197.5	224.6	240.8	259.7	267.8	278.7	284.1	284.1
140°	100.1	124.5	151.5	173.2	194.8	211.0	227.3	240.8	248.9	251.6	251.6
142.5°	81.2	102.8	124.5	151.5	170.4	184.0	200.2	211.0	216.4	219.1	221.8
145°	64.9	81.2	100.1	124.5	146.1	162.3	170.4	181.3	186.7	189.4	192.1
147.5°	48.7	64.9	81.2	97.4	119.0	135.3	143.4	154.2	159.6	162.3	162.3
150°	37.9	48.7	59.5	75.8	92.0	110.9	121.7	129.9	132.6	135.3	135.3
152.5°	27.1	37.9	46.0	56.8	67.6	83.9	100.1	105.5	108.2	110.9	110.9
155°	18.9	27.1	32.5	40.6	48.7	62.2	75.8	83.9	86.6	89.3	89.3
157.5°	13.5	18.9	21.6	29.8	35.2	40.6	51.4	64.9	67.6	67.6	67.6
160°	8.1	10.8	13.5	18.9	21.6	27.1	32.5	40.6	48.7	48.7	48.7
162.5°	5.4	8.1	8.1	10.8	10.8	16.2	18.9	21.6	29.8	32.5	32.5
165°	2.7	5.4	5.4	5.4	5.4	5.4	8.1	8.1	13.5	16.2	16.2
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-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2559.4	2564.8	2562.1	2562.1	2562.1	2567.5	2562.1	2537.7	2543.1	2548.6	2554.0
5°	2556.7	2559.4	2559.4	2556.7	2556.7	2562.1	2556.7	2532.3	2537.7	2543.1	2545.9
7.5°	2545.9	2548.6	2548.6	2548.6	2545.9	2551.3	2543.1	2521.5	2521.5	2526.9	2529.6
10°	2532.3	2537.7	2535.0	2532.3	2532.3	2532.3	2526.9	2502.6	2502.6	2505.3	2508.0
12.5°	2516.1	2516.1	2516.1	2513.4	2510.7	2510.7	2505.3	2480.9	2478.2	2483.6	2480.9
15°	2494.4	2499.9	2494.4	2491.7	2486.3	2486.3	2478.2	2453.9	2448.5	2451.2	2448.5
17.5°	2475.5	2478.2	2472.8	2467.4	2462.0	2459.3	2451.2	2424.1	2416.0	2418.7	2413.3
20°	2456.6	2456.6	2451.2	2445.8	2437.6	2429.5	2418.7	2391.6	2378.1	2378.1	2367.3
22.5°	2432.2	2432.2	2426.8	2418.7	2410.6	2399.8	2388.9	2361.9	2340.2	2334.8	2326.7
25°	2405.2	2402.5	2399.8	2391.6	2375.4	2364.6	2353.8	2324.0	2299.7	2288.8	2275.3
27.5°	2372.7	2372.7	2364.6	2356.5	2340.2	2326.7	2313.2	2286.1	2253.7	2240.1	2221.2
30°	2337.5	2337.5	2329.4	2318.6	2302.4	2286.1	2269.9	2237.4	2205.0	2186.0	2164.4
32.5°	2302.4	2299.7	2291.5	2280.7	2264.5	2240.1	2226.6	2194.1	2156.3	2134.6	2104.9
35°	2259.1	2256.4	2248.3	2234.7	2213.1	2194.1	2172.5	2142.7	2099.4	2072.4	2039.9
37.5°	2215.8	2213.1	2207.7	2188.7	2167.1	2145.4	2118.4	2088.6	2048.0	2012.9	1980.4
40°	2172.5	2169.8	2159.0	2145.4	2118.4	2091.3	2064.3	2034.5	1991.2	1950.6	1915.5
42.5°	2126.5	2123.8	2110.3	2094.0	2064.3	2037.2	2004.8	1972.3	1929.0	1880.3	1845.1
45°	2080.5	2075.1	2061.6	2042.6	2010.2	1980.4	1947.9	1910.1	1866.8	1820.8	1774.8
47.5°	2031.8	2023.7	2010.2	1983.1	1956.1	1923.6	1885.7	1845.1	1801.8	1750.4	1701.7
50°	1977.7	1972.3	1956.1	1931.7	1899.2	1866.8	1823.5	1782.9	1731.5	1682.8	1623.3
52.5°	1926.3	1915.5	1901.9	1874.9	1842.4	1807.3	1761.3	1712.6	1661.2	1615.2	1552.9
55°	1872.2	1866.8	1847.8	1826.2	1785.6	1745.0	1701.7	1650.3	1593.5	1539.4	1479.9
57.5°	1820.8	1810.0	1793.7	1764.0	1728.8	1688.2	1642.2	1588.1	1525.9	1469.1	1404.1
60°	1769.4	1753.1	1734.2	1707.2	1669.3	1626.0	1577.3	1520.5	1458.3	1396.0	1328.4
62.5°	1712.6	1699.0	1677.4	1650.3	1612.5	1566.5	1515.1	1455.5	1396.0	1331.1	1258.0
65°	1655.8	1642.2	1620.6	1593.5	1555.6	1504.2	1450.1	1390.6	1323.0	1260.8	1182.3
67.5°	1598.9	1585.4	1561.1	1531.3	1493.4	1444.7	1387.9	1325.7	1258.0	1190.4	1109.2
70°	1542.1	1525.9	1504.2	1471.8	1433.9	1382.5	1325.7	1260.8	1193.1	1120.1	1038.9
72.5°	1485.3	1471.8	1444.7	1415.0	1374.4	1323.0	1266.2	1201.2	1130.9	1055.1	974.0
75°	1428.5	1412.3	1393.3	1358.1	1314.9	1266.2	1206.6	1141.7	1066.0	992.9	909.0
77.5°	1371.7	1358.1	1333.8	1298.6	1258.0	1206.6	1147.1	1082.2	1006.4	930.7	841.4
80°	1314.9	1298.6	1279.7	1247.2	1201.2	1149.8	1087.6	1022.7	946.9	868.5	779.2
82.5°	1258.0	1241.8	1220.2	1187.7	1144.4	1093.0	1033.5	963.1	887.4	806.2	722.4
85°	1201.2	1187.7	1163.4	1130.9	1084.9	1033.5	974.0	911.7	830.6	749.4	665.5
87.5°	1144.4	1130.9	1106.5	1074.1	1030.8	979.4	919.9	854.9	776.5	700.7	608.7
90°	1090.3	1079.5	1055.1	1022.7	979.4	928.0	873.9	803.5	727.8	652.0	565.4
92.5°	1041.6	1030.8	1009.1	976.7	938.8	882.0	827.9	760.2	684.5	606.0	522.2
95°	998.3	984.8	963.1	933.4	887.4	838.7	784.6	717.0	643.9	565.4	484.3
97.5°	949.6	936.1	914.5	882.0	844.1	792.7	738.6	673.7	600.6	527.6	446.4
100°	900.9	887.4	863.0	836.0	798.1	746.7	695.3	630.4	562.7	492.4	413.9
102.5°	852.2	838.7	817.1	790.0	752.1	706.1	654.7	592.5	524.9	454.5	381.5
105°	806.2	792.7	771.1	744.0	708.8	662.8	608.7	554.6	489.7	422.1	351.7
107.5°	760.2	746.7	727.8	700.7	665.5	622.3	570.9	514.0	454.5	389.6	322.0
110°	714.2	703.4	681.8	657.4	622.3	579.0	533.0	478.9	419.3	359.8	294.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	671.0	660.1	638.5	611.4	581.7	541.1	495.1	443.7	386.9	330.1	267.8
115°	627.7	614.1	595.2	570.9	541.1	503.2	459.9	413.9	357.1	303.0	246.2
117.5°	584.4	573.6	554.6	530.3	503.2	465.3	424.8	381.5	327.4	276.0	224.6
120°	541.1	533.0	514.0	492.4	465.3	430.2	392.3	349.0	300.3	251.6	202.9
122.5°	500.5	492.4	473.5	454.5	427.5	395.0	359.8	319.2	276.0	230.0	186.7
125°	462.6	451.8	435.6	416.6	392.3	362.5	327.4	289.5	248.9	208.3	167.7
127.5°	422.1	413.9	403.1	381.5	357.1	330.1	297.6	265.1	227.3	189.4	151.5
130°	389.6	378.8	365.2	349.0	327.4	300.3	270.5	238.1	205.6	170.4	132.6
132.5°	351.7	340.9	330.1	313.8	294.9	270.5	243.5	213.7	184.0	151.5	119.0
135°	316.5	308.4	297.6	281.4	262.4	243.5	216.4	189.4	162.3	132.6	105.5
137.5°	284.1	276.0	265.1	254.3	235.4	216.4	192.1	167.7	143.4	116.3	92.0
140°	251.6	246.2	235.4	224.6	208.3	189.4	167.7	146.1	124.5	100.1	78.5
142.5°	219.1	213.7	205.6	194.8	181.3	165.0	146.1	127.2	105.5	86.6	67.6
145°	189.4	186.7	178.6	167.7	156.9	140.7	124.5	108.2	89.3	73.0	54.1
147.5°	159.6	156.9	151.5	143.4	132.6	119.0	105.5	89.3	75.8	59.5	43.3
150°	132.6	129.9	127.2	116.3	110.9	97.4	86.6	73.0	62.2	46.0	35.2
152.5°	108.2	108.2	102.8	94.7	89.3	78.5	70.3	59.5	48.7	37.9	27.1
155°	86.6	83.9	81.2	75.8	70.3	62.2	54.1	46.0	37.9	27.1	18.9
157.5°	67.6	64.9	62.2	56.8	51.4	48.7	40.6	32.5	24.3	18.9	13.5
160°	48.7	46.0	43.3	40.6	37.9	32.5	27.1	21.6	16.2	10.8	8.1
162.5°	32.5	29.8	29.8	27.1	24.3	18.9	16.2	13.5	10.8	8.1	5.4
165°	16.2	16.2	13.5	13.5	10.8	8.1	8.1	8.1	5.4	5.4	2.7
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-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2551.3	2551.3	2562.1	2559.4	2551.3	2567.5	2586.4
5°	2543.1	2543.1	2551.3	2551.3	2543.1	2559.4	2575.6
7.5°	2529.6	2526.9	2535.0	2535.0	2524.2	2537.7	2556.7
10°	2505.3	2502.6	2510.7	2510.7	2499.9	2513.4	2529.6
12.5°	2478.2	2472.8	2480.9	2478.2	2467.4	2480.9	2497.2
15°	2443.0	2440.3	2445.8	2440.3	2429.5	2443.0	2459.3
17.5°	2407.9	2399.8	2402.5	2402.5	2383.5	2397.1	2410.6
20°	2361.9	2351.1	2353.8	2351.1	2337.5	2345.6	2361.9
22.5°	2315.9	2299.7	2299.7	2296.9	2280.7	2291.5	2305.1
25°	2259.1	2240.1	2240.1	2237.4	2218.5	2226.6	2240.1
27.5°	2202.3	2183.3	2175.2	2172.5	2153.6	2153.6	2172.5
30°	2142.7	2115.7	2110.3	2102.2	2083.2	2083.2	2099.4
32.5°	2085.9	2048.0	2037.2	2026.4	2007.5	2004.8	2023.7
35°	2010.2	1980.4	1961.5	1950.6	1929.0	1923.6	1939.8
37.5°	1947.9	1910.1	1883.0	1869.5	1847.8	1839.7	1861.4
40°	1880.3	1839.7	1804.6	1796.4	1764.0	1753.1	1772.1
42.5°	1804.6	1761.3	1726.1	1709.9	1685.5	1674.7	1677.4
45°	1728.8	1682.8	1644.9	1623.3	1598.9	1580.0	1590.8
47.5°	1650.3	1609.8	1563.8	1531.3	1501.5	1488.0	1493.4
50°	1571.9	1523.2	1479.9	1444.7	1409.6	1393.3	1404.1
52.5°	1493.4	1442.0	1393.3	1355.4	1314.9	1298.6	1301.3
55°	1417.7	1363.6	1306.7	1266.2	1228.3	1203.9	1198.5
57.5°	1341.9	1282.4	1222.9	1176.9	1128.2	1106.5	1098.4
60°	1260.8	1198.5	1136.3	1082.2	1030.8	1006.4	995.6
62.5°	1185.0	1117.4	1047.0	990.2	938.8	906.3	898.2
65°	1112.0	1033.5	963.1	898.2	841.4	806.2	795.4
67.5°	1033.5	952.3	876.6	806.2	752.1	706.1	700.7
70°	960.4	873.9	790.0	717.0	657.4	611.4	589.8
72.5°	887.4	798.1	711.5	633.1	557.3	514.0	497.8
75°	817.1	725.1	633.1	551.9	468.0	416.6	400.4
77.5°	752.1	657.4	560.0	470.8	392.3	327.4	305.7
80°	689.9	592.5	489.7	397.7	313.8	243.5	219.1
82.5°	625.0	533.0	427.5	330.1	243.5	170.4	140.7
85°	568.2	476.2	370.7	273.3	186.7	108.2	75.8
87.5°	522.2	422.1	327.4	230.0	140.7	62.2	21.6
90°	476.2	378.8	284.1	189.4	105.5	35.2	2.7
92.5°	435.6	343.6	248.9	162.3	81.2	24.3	2.7
95°	397.7	308.4	219.1	135.3	64.9	16.2	2.7
97.5°	362.5	278.7	194.8	116.3	54.1	13.5	2.7
100°	332.8	251.6	173.2	102.8	46.0	10.8	2.7
102.5°	303.0	227.3	154.2	89.3	40.6	8.1	2.7
105°	278.7	205.6	138.0	81.2	35.2	8.1	2.7
107.5°	254.3	186.7	124.5	70.3	29.8	5.4	2.7
110°	230.0	170.4	110.9	62.2	27.1	5.4	2.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	211.0	154.2	100.1	56.8	21.6	5.4	2.7
115°	192.1	138.0	89.3	48.7	18.9	2.7	2.7
117.5°	173.2	124.5	78.5	43.3	16.2	2.7	2.7
120°	156.9	110.9	70.3	37.9	13.5	2.7	2.7
122.5°	140.7	100.1	62.2	32.5	10.8	2.7	2.7
125°	127.2	89.3	54.1	27.1	8.1	2.7	2.7
127.5°	113.6	78.5	48.7	24.3	8.1	2.7	2.7
130°	100.1	70.3	40.6	18.9	5.4	2.7	2.7
132.5°	89.3	59.5	35.2	16.2	5.4	2.7	2.7
135°	78.5	51.4	29.8	10.8	5.4	2.7	2.7
137.5°	67.6	43.3	24.3	8.1	2.7	2.7	2.7
140°	56.8	37.9	18.9	8.1	2.7	2.7	2.7
142.5°	48.7	29.8	13.5	5.4	2.7	2.7	2.7
145°	37.9	24.3	10.8	5.4	2.7	2.7	2.7
147.5°	29.8	18.9	8.1	5.4	2.7	2.7	2.7
150°	21.6	13.5	8.1	2.7	2.7	2.7	2.7
152.5°	16.2	10.8	5.4	2.7	2.7	2.7	2.7
155°	10.8	8.1	5.4	2.7	2.7	2.7	2.7
157.5°	8.1	5.4	2.7	2.7	2.7	2.7	2.7
160°	5.4	2.7	2.7	2.7	2.7	2.7	2.7
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)