

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-LD5-200HL-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-LD5-200HL-LW-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

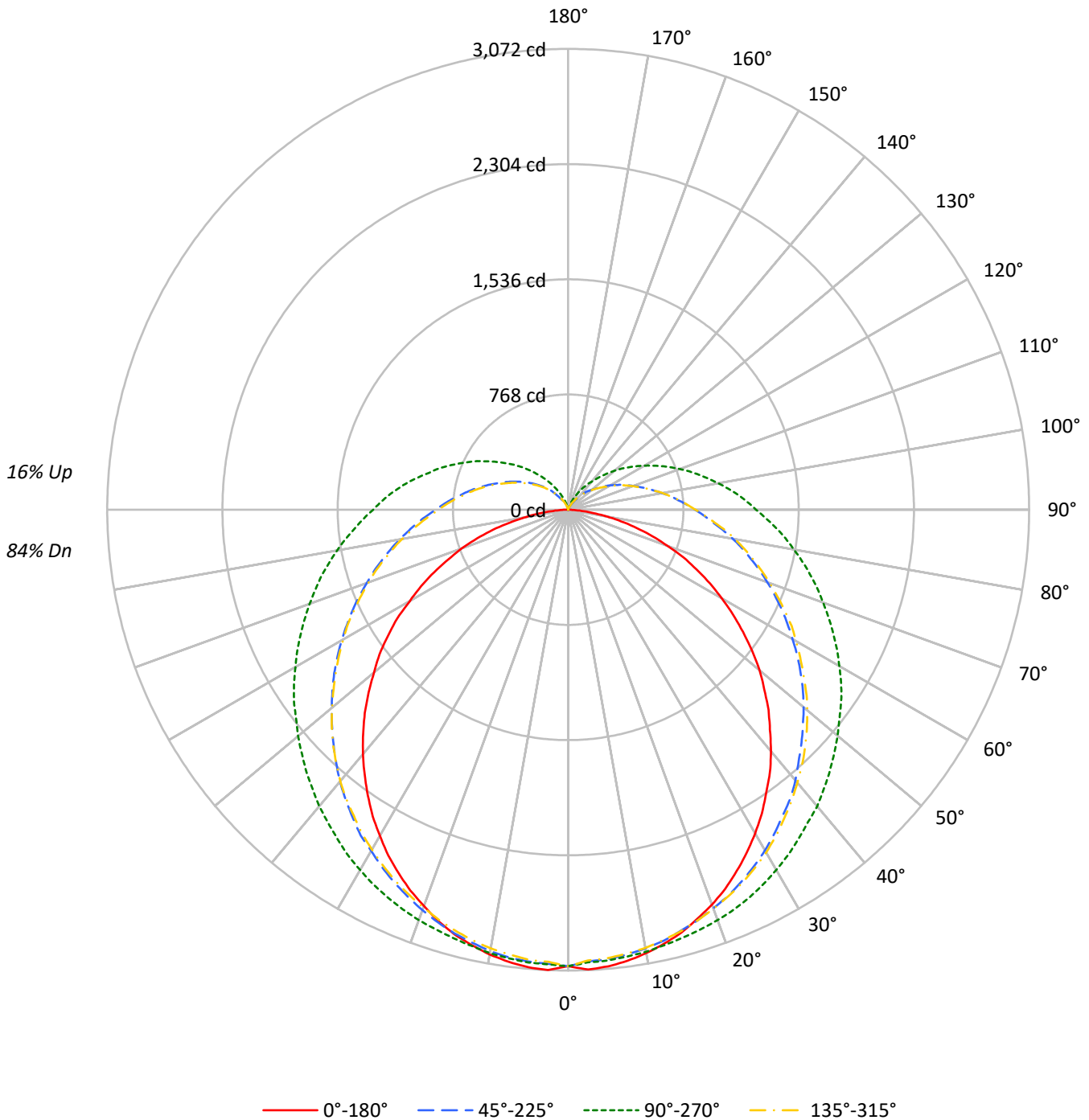
Lumens per Lamp: N/A
Luminaire Lumens: 13220.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 158
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	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°	12295	12295	12295	12295
5°	12377	11848	12403	11899
10°	12279	11512	12319	11549
15°	12154	11224	12207	11236
20°	11980	11013	12022	11013
25°	11763	10826	11834	10814
30°	11517	10634	11606	10634
35°	11229	10456	11354	10469
40°	10946	10351	11079	10351
45°	10618	10242	10781	10255
50°	10280	10176	10419	10204
55°	9798	10186	10108	10230
60°	9294	10217	9597	10280
65°	8730	10320	9116	10422
70°	7926	10510	8544	10659
75°	7007	10853	7671	11062
80°	5557	11362	6312	11625
85°	3536	12178	4417	12516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	2.2
10°-20°	828.4	6.3
20°-30°	1270.2	9.6
30°-40°	1567.0	11.9
40°-50°	1700.0	12.9
50°-60°	1675.6	12.7
60°-70°	1515.0	11.5
70°-80°	1262.1	9.5
80°-90°	977.5	7.4
90°-100°	741.4	5.6
100°-110°	548.6	4.2
110°-120°	381.6	2.9
120°-130°	243.5	1.8
130°-140°	136.6	1.0
140°-150°	62.4	0.5
150°-160°	19.3	0.1
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	2386.9	18.1
0°-40°	3953.8	29.9
0°-60°	7329.5	55.4
0°-90°	11084.1	83.8
90°-120°	1671.6	12.6
90°-150°	2114.1	16.0
90°-180°	2136.0	16.2
0°-180°	13220.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3043	3043	3043	3043	3043	
5°	3056	3017	3062	3030	3056	290
15°	2918	2953	2930	2956	2918	822
25°	2658	2854	2674	2850	2658	1224
35°	2301	2677	2327	2680	2301	1441
45°	1887	2465	1916	2468	1887	1454
55°	1422	2221	1467	2231	1422	1273
65°	944	1948	985	1968	944	935
75°	475	1669	520	1701	475	503
85°	90	1390	112	1428	90	109
90°	3	1252	6	1300	3	5
95°	3	1136	3	1191	3	3
105°	3	902	3	956	3	3
115°	3	687	3	748	3	3
125°	3	494	3	549	3	3
135°	3	321	3	379	3	2
145°	3	186	3	228	3	2
155°	3	77	3	106	3	1
165°	3	13	3	19	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3068.5	3068.5	3065.3	3058.9	3062.1	3071.7	3065.3	3049.3	3039.6	3014.0	3020.4
5°	3055.7	3055.7	3052.5	3046.1	3049.3	3062.1	3055.7	3042.9	3030.0	3007.5	3017.2
7.5°	3033.2	3033.2	3030.0	3023.6	3030.0	3042.9	3036.4	3023.6	3014.0	2991.5	3001.1
10°	3001.1	3004.3	3001.1	2991.5	3004.3	3017.2	3014.0	2997.9	2988.3	2969.0	2978.7
12.5°	2962.6	2965.8	2962.6	2959.4	2965.8	2985.1	2978.7	2965.8	2959.4	2943.4	2953.0
15°	2917.7	2920.9	2914.5	2914.5	2920.9	2940.1	2940.1	2927.3	2920.9	2904.8	2924.1
17.5°	2859.9	2863.1	2859.9	2859.9	2866.3	2885.6	2888.8	2882.4	2875.9	2869.5	2888.8
20°	2802.1	2798.9	2798.9	2795.7	2808.5	2837.4	2834.2	2834.2	2827.8	2827.8	2850.3
22.5°	2734.7	2734.7	2731.5	2731.5	2747.6	2773.2	2773.2	2779.7	2773.2	2786.1	2805.3
25°	2657.7	2660.9	2657.7	2664.1	2676.9	2705.8	2709.0	2718.7	2721.9	2734.7	2757.2
27.5°	2577.4	2580.7	2577.4	2583.9	2606.3	2628.8	2644.8	2657.7	2660.9	2680.2	2709.0
30°	2490.8	2490.8	2494.0	2500.4	2526.1	2561.4	2574.2	2590.3	2590.3	2622.4	2651.3
32.5°	2400.9	2400.9	2400.9	2413.7	2442.6	2484.4	2500.4	2519.7	2526.1	2558.2	2590.3
35°	2301.4	2304.6	2304.6	2314.2	2352.8	2394.5	2417.0	2439.4	2452.3	2490.8	2522.9
37.5°	2208.3	2214.7	2205.1	2217.9	2272.5	2307.8	2333.5	2356.0	2378.4	2429.8	2455.5
40°	2102.4	2108.8	2105.6	2131.3	2176.2	2221.2	2250.0	2272.5	2304.6	2356.0	2384.9
42.5°	1990.1	1996.5	2002.9	2031.8	2079.9	2124.9	2160.2	2189.1	2227.6	2272.5	2320.7
45°	1887.3	1887.3	1897.0	1932.3	1983.6	2031.8	2073.5	2105.6	2150.5	2198.7	2246.8
47.5°	1771.8	1775.0	1787.8	1829.6	1884.1	1941.9	1980.4	2022.2	2070.3	2121.7	2176.2
50°	1665.9	1665.9	1685.1	1730.1	1781.4	1845.6	1887.3	1935.5	1986.8	2047.8	2102.4
52.5°	1543.9	1550.3	1579.2	1620.9	1688.3	1746.1	1794.3	1845.6	1906.6	1970.8	2031.8
55°	1421.9	1434.8	1457.2	1515.0	1585.6	1640.2	1698.0	1762.2	1819.9	1890.6	1961.2
57.5°	1303.2	1312.8	1348.1	1405.9	1479.7	1547.1	1608.1	1669.1	1739.7	1810.3	1884.1
60°	1181.2	1194.0	1235.8	1293.5	1373.8	1444.4	1515.0	1579.2	1653.0	1726.9	1803.9
62.5°	1065.6	1075.3	1123.4	1190.8	1271.1	1348.1	1418.7	1495.7	1576.0	1646.6	1723.6
65°	943.7	959.7	1014.3	1075.3	1168.4	1245.4	1325.6	1409.1	1492.5	1569.6	1643.4
67.5°	831.3	841.0	898.7	969.3	1062.4	1149.1	1232.5	1322.4	1409.1	1489.3	1563.2
70°	699.7	731.8	789.6	863.4	962.9	1052.8	1142.7	1235.8	1328.8	1412.3	1482.9
72.5°	590.6	616.3	680.5	760.7	857.0	962.9	1056.0	1155.5	1248.6	1335.3	1409.1
75°	475.0	500.7	574.5	664.4	763.9	876.3	972.6	1075.3	1171.6	1258.2	1335.3
77.5°	362.7	394.8	475.0	568.1	677.3	792.8	892.3	995.0	1094.5	1187.6	1264.6
80°	260.0	295.3	382.0	487.9	593.8	709.4	818.5	921.2	1020.7	1113.8	1194.0
82.5°	166.9	205.4	298.5	404.4	516.8	632.3	744.7	847.4	946.9	1040.0	1123.4
85°	89.9	131.6	227.9	333.8	446.2	561.7	674.1	783.2	879.5	966.1	1056.0
87.5°	25.7	77.0	170.1	276.0	391.6	497.5	606.6	715.8	812.1	905.2	985.4
90°	3.2	44.9	128.4	227.9	340.2	442.9	552.1	654.8	751.1	844.2	924.4
92.5°	3.2	28.9	99.5	189.4	292.1	398.0	507.1	606.6	696.5	789.6	869.8
95°	3.2	22.5	80.2	160.5	256.8	356.3	459.0	555.3	648.4	735.0	815.3
97.5°	3.2	16.0	64.2	138.0	224.7	317.8	417.3	513.6	603.4	686.9	760.7
100°	3.2	12.8	51.4	118.8	195.8	285.7	375.5	468.6	555.3	635.5	712.6
102.5°	3.2	9.6	44.9	99.5	173.3	253.6	340.2	426.9	510.4	587.4	664.4
105°	3.2	9.6	38.5	86.7	154.1	227.9	308.1	391.6	468.6	542.5	613.1
107.5°	3.2	6.4	32.1	73.8	134.8	205.4	279.2	359.5	430.1	500.7	568.1
110°	3.2	6.4	25.7	67.4	118.8	183.0	253.6	327.4	394.8	462.2	526.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.2	6.4	22.5	57.8	102.7	163.7	227.9	295.3	359.5	426.9	484.7
115°	3.2	6.4	19.3	51.4	96.3	141.2	205.4	266.4	330.6	391.6	446.2
117.5°	3.2	6.4	16.0	41.7	83.5	128.4	179.7	240.7	298.5	356.3	407.6
120°	3.2	6.4	12.8	38.5	73.8	115.6	160.5	215.1	269.6	324.2	378.8
122.5°	3.2	3.2	12.8	32.1	64.2	102.7	147.6	189.4	240.7	292.1	340.2
125°	3.2	3.2	12.8	28.9	54.6	93.1	131.6	170.1	215.1	260.0	301.7
127.5°	3.2	3.2	9.6	22.5	48.1	80.2	115.6	157.3	189.4	231.1	272.8
130°	3.2	3.2	9.6	19.3	41.7	67.4	102.7	138.0	176.5	205.4	240.7
132.5°	3.2	3.2	9.6	16.0	32.1	54.6	86.7	118.8	154.1	186.2	215.1
135°	3.2	3.2	6.4	12.8	25.7	44.9	70.6	99.5	134.8	166.9	195.8
137.5°	3.2	3.2	6.4	12.8	19.3	38.5	54.6	80.2	112.3	141.2	170.1
140°	3.2	3.2	6.4	9.6	16.0	28.9	44.9	64.2	89.9	115.6	147.6
142.5°	3.2	3.2	3.2	9.6	12.8	22.5	35.3	51.4	70.6	93.1	118.8
145°	3.2	3.2	3.2	9.6	12.8	16.0	28.9	41.7	54.6	70.6	93.1
147.5°	3.2	3.2	3.2	6.4	9.6	12.8	22.5	32.1	41.7	54.6	67.4
150°	3.2	3.2	3.2	6.4	9.6	12.8	16.0	22.5	32.1	44.9	54.6
152.5°	3.2	3.2	3.2	6.4	6.4	9.6	12.8	16.0	22.5	32.1	38.5
155°	3.2	3.2	3.2	3.2	6.4	9.6	12.8	12.8	16.0	22.5	28.9
157.5°	3.2	3.2	3.2	3.2	6.4	6.4	9.6	9.6	12.8	12.8	19.3
160°	3.2	3.2	3.2	3.2	3.2	6.4	6.4	9.6	9.6	9.6	9.6
162.5°	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	6.4	9.6	9.6
165°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	6.4
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°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3020.4	3023.6	3033.2	3033.2	3026.8	3026.8	3023.6	3020.4	3023.6	3030.0	3030.0
5°	3014.0	3017.2	3026.8	3030.0	3023.6	3020.4	3020.4	3017.2	3020.4	3026.8	3026.8
7.5°	3001.1	3004.3	3014.0	3017.2	3010.8	3010.8	3007.5	3004.3	3010.8	3014.0	3014.0
10°	2981.9	2985.1	2997.9	3001.1	2997.9	2994.7	2994.7	2991.5	2994.7	3001.1	3001.1
12.5°	2956.2	2962.6	2978.7	2978.7	2978.7	2975.5	2975.5	2972.2	2975.5	2981.9	2978.7
15°	2927.3	2940.1	2953.0	2959.4	2959.4	2959.4	2956.2	2953.0	2959.4	2962.6	2959.4
17.5°	2895.2	2911.3	2930.5	2936.9	2936.9	2940.1	2936.9	2933.7	2940.1	2940.1	2936.9
20°	2863.1	2879.2	2898.4	2904.8	2911.3	2914.5	2914.5	2911.3	2914.5	2917.7	2914.5
22.5°	2821.4	2840.6	2863.1	2872.7	2879.2	2885.6	2885.6	2885.6	2888.8	2892.0	2885.6
25°	2776.4	2798.9	2824.6	2834.2	2847.1	2850.3	2853.5	2853.5	2856.7	2859.9	2850.3
27.5°	2728.3	2754.0	2779.7	2795.7	2805.3	2811.8	2811.8	2815.0	2818.2	2821.4	2811.8
30°	2670.5	2709.0	2731.5	2744.3	2757.2	2766.8	2770.0	2773.2	2776.4	2779.7	2770.0
32.5°	2619.2	2651.3	2680.2	2696.2	2712.3	2725.1	2728.3	2728.3	2734.7	2734.7	2725.1
35°	2558.2	2596.7	2625.6	2641.6	2660.9	2670.5	2676.9	2676.9	2683.4	2683.4	2673.7
37.5°	2497.2	2535.7	2567.8	2587.1	2609.5	2622.4	2625.6	2625.6	2632.0	2632.0	2619.2
40°	2433.0	2474.7	2510.0	2532.5	2551.8	2567.8	2571.0	2580.7	2580.7	2577.4	2564.6
42.5°	2368.8	2407.3	2445.8	2471.5	2497.2	2513.2	2519.7	2522.9	2522.9	2519.7	2510.0
45°	2298.2	2343.1	2378.4	2410.5	2436.2	2452.3	2461.9	2465.1	2465.1	2458.7	2449.0
47.5°	2230.8	2275.7	2311.0	2346.3	2372.0	2391.3	2400.9	2404.1	2400.9	2397.7	2388.1
50°	2160.2	2211.5	2246.8	2282.1	2307.8	2323.9	2339.9	2343.1	2339.9	2336.7	2317.4
52.5°	2086.3	2140.9	2179.4	2214.7	2243.6	2262.9	2275.7	2278.9	2278.9	2272.5	2259.7
55°	2012.5	2060.7	2108.8	2147.3	2179.4	2198.7	2214.7	2221.2	2214.7	2208.3	2192.3
57.5°	1945.1	1990.1	2038.2	2079.9	2112.0	2137.7	2150.5	2157.0	2150.5	2140.9	2124.9
60°	1864.9	1913.0	1967.6	2006.1	2041.4	2067.1	2073.5	2086.3	2079.9	2070.3	2054.2
62.5°	1787.8	1845.6	1893.8	1941.9	1970.8	1999.7	2012.5	2018.9	2012.5	2002.9	1986.8
65°	1707.6	1771.8	1819.9	1868.1	1900.2	1929.1	1945.1	1948.3	1941.9	1932.3	1916.2
67.5°	1633.8	1694.8	1746.1	1797.5	1826.4	1855.2	1871.3	1877.7	1871.3	1858.5	1842.4
70°	1559.9	1620.9	1681.9	1720.4	1755.7	1787.8	1797.5	1807.1	1800.7	1787.8	1768.6
72.5°	1486.1	1550.3	1611.3	1649.8	1688.3	1717.2	1730.1	1739.7	1733.3	1720.4	1698.0
75°	1409.1	1476.5	1537.5	1579.2	1617.7	1646.6	1659.4	1669.1	1662.7	1649.8	1624.1
77.5°	1338.5	1405.9	1463.7	1508.6	1547.1	1572.8	1595.3	1598.5	1592.0	1579.2	1553.5
80°	1264.6	1332.1	1393.0	1438.0	1476.5	1502.2	1518.2	1527.8	1521.4	1508.6	1482.9
82.5°	1200.5	1261.4	1322.4	1367.4	1405.9	1438.0	1450.8	1460.4	1457.2	1438.0	1418.7
85°	1129.8	1200.5	1248.6	1296.7	1335.3	1367.4	1377.0	1389.8	1386.6	1370.6	1344.9
87.5°	1059.2	1129.8	1187.6	1235.8	1271.1	1296.7	1312.8	1319.2	1316.0	1300.0	1271.1
90°	1001.4	1065.6	1123.4	1174.8	1203.7	1232.5	1248.6	1251.8	1251.8	1232.5	1210.1
92.5°	946.9	1007.9	1065.6	1113.8	1149.1	1174.8	1187.6	1194.0	1190.8	1174.8	1149.1
95°	885.9	953.3	1007.9	1056.0	1091.3	1117.0	1129.8	1136.3	1133.0	1117.0	1091.3
97.5°	834.5	895.5	950.1	995.0	1030.3	1056.0	1068.9	1075.3	1075.3	1059.2	1033.5
100°	783.2	844.2	895.5	940.5	972.6	998.2	1011.1	1014.3	1011.1	998.2	972.6
102.5°	731.8	789.6	841.0	882.7	918.0	940.5	953.3	956.5	956.5	940.5	914.8
105°	680.5	738.2	786.4	831.3	860.2	882.7	892.3	901.9	898.7	885.9	860.2
107.5°	632.3	690.1	735.0	776.8	805.7	828.1	837.7	847.4	844.2	831.3	805.7
110°	587.4	642.0	683.7	725.4	751.1	773.6	789.6	792.8	786.4	773.6	751.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	545.7	593.8	635.5	674.1	702.9	719.0	731.8	738.2	731.8	719.0	702.9
115°	500.7	548.9	590.6	625.9	651.6	670.8	680.5	686.9	680.5	667.6	651.6
117.5°	459.0	503.9	545.7	581.0	603.4	619.5	629.1	635.5	629.1	619.5	603.4
120°	423.7	462.2	500.7	532.8	558.5	571.3	581.0	587.4	584.2	571.3	555.3
122.5°	382.0	423.7	459.0	491.1	513.6	526.4	532.8	539.2	536.0	526.4	510.4
125°	346.7	382.0	417.3	446.2	468.6	481.5	487.9	494.3	491.1	481.5	462.2
127.5°	308.1	346.7	375.5	404.4	420.5	439.7	442.9	449.4	446.2	436.5	420.5
130°	279.2	308.1	337.0	362.7	382.0	394.8	401.2	404.4	398.0	391.6	375.5
132.5°	243.9	276.0	301.7	324.2	337.0	349.9	356.3	359.5	359.5	349.9	337.0
135°	218.3	240.7	263.2	285.7	298.5	311.3	317.8	321.0	317.8	311.3	298.5
137.5°	195.8	215.1	231.1	250.4	266.4	272.8	279.2	279.2	276.0	272.8	263.2
140°	170.1	192.6	208.6	221.5	234.3	237.5	243.9	243.9	240.7	237.5	231.1
142.5°	144.4	163.7	179.7	195.8	205.4	211.8	215.1	218.3	215.1	211.8	202.2
145°	115.6	138.0	154.1	163.7	176.5	179.7	183.0	186.2	183.0	179.7	170.1
147.5°	89.9	109.1	125.2	138.0	147.6	150.9	154.1	157.3	154.1	147.6	144.4
150°	64.2	80.2	99.5	112.3	118.8	125.2	125.2	125.2	128.4	122.0	115.6
152.5°	51.4	57.8	70.6	83.5	93.1	96.3	99.5	99.5	96.3	96.3	89.9
155°	35.3	41.7	51.4	61.0	70.6	73.8	77.0	77.0	73.8	73.8	70.6
157.5°	22.5	28.9	35.3	41.7	51.4	54.6	57.8	57.8	57.8	54.6	51.4
160°	12.8	16.0	19.3	25.7	32.1	35.3	38.5	38.5	38.5	38.5	35.3
162.5°	9.6	9.6	9.6	12.8	16.0	19.3	22.5	22.5	22.5	22.5	19.3
165°	6.4	6.4	6.4	6.4	6.4	9.6	12.8	12.8	12.8	12.8	12.8
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-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3026.8	3026.8	3030.0	3023.6	3004.3	3007.5	3007.5	3020.4	3026.8	3030.0	3046.1
5°	3020.4	3020.4	3026.8	3017.2	3001.1	3001.1	3001.1	3014.0	3017.2	3023.6	3036.4
7.5°	3010.8	3010.8	3014.0	3004.3	2985.1	2985.1	2981.9	2994.7	3001.1	3004.3	3017.2
10°	2994.7	2994.7	2997.9	2988.3	2965.8	2965.8	2962.6	2972.2	2975.5	2981.9	2991.5
12.5°	2972.2	2972.2	2972.2	2962.6	2940.1	2936.9	2933.7	2943.4	2943.4	2946.6	2956.2
15°	2953.0	2946.6	2946.6	2936.9	2914.5	2908.0	2901.6	2904.8	2911.3	2908.0	2914.5
17.5°	2930.5	2924.1	2917.7	2908.0	2879.2	2869.5	2863.1	2866.3	2863.1	2859.9	2866.3
20°	2904.8	2895.2	2892.0	2875.9	2847.1	2831.0	2818.2	2811.8	2815.0	2805.3	2808.5
22.5°	2875.9	2863.1	2856.7	2837.4	2808.5	2789.3	2773.2	2760.4	2757.2	2744.3	2747.6
25°	2840.6	2824.6	2815.0	2798.9	2766.8	2744.3	2725.1	2705.8	2696.2	2680.2	2676.9
27.5°	2798.9	2782.9	2770.0	2754.0	2721.9	2693.0	2670.5	2644.8	2632.0	2612.7	2603.1
30°	2757.2	2737.9	2718.7	2705.8	2670.5	2638.4	2603.1	2580.7	2561.4	2538.9	2522.9
32.5°	2705.8	2686.6	2667.3	2648.1	2616.0	2577.4	2548.6	2513.2	2490.8	2465.1	2445.8
35°	2654.5	2628.8	2609.5	2583.9	2555.0	2510.0	2474.7	2439.4	2410.5	2381.6	2359.2
37.5°	2596.7	2577.4	2548.6	2526.1	2490.8	2445.8	2407.3	2362.4	2336.7	2298.2	2269.3
40°	2542.1	2519.7	2490.8	2461.9	2426.6	2375.2	2333.5	2282.1	2253.3	2208.3	2179.4
42.5°	2487.6	2455.5	2426.6	2394.5	2356.0	2307.8	2256.5	2205.1	2166.6	2124.9	2083.1
45°	2426.6	2391.3	2356.0	2320.7	2282.1	2234.0	2179.4	2124.9	2076.7	2038.2	1986.8
47.5°	2362.4	2327.1	2285.4	2246.8	2205.1	2157.0	2099.2	2041.4	1990.1	1945.1	1890.6
50°	2298.2	2262.9	2217.9	2176.2	2128.1	2079.9	2018.9	1951.5	1897.0	1839.2	1791.0
52.5°	2230.8	2195.5	2153.8	2099.2	2047.8	1999.7	1935.5	1864.9	1803.9	1755.7	1694.8
55°	2163.4	2128.1	2079.9	2025.4	1974.0	1913.0	1852.0	1781.4	1714.0	1656.2	1595.3
57.5°	2092.8	2060.7	2006.1	1961.2	1897.0	1832.8	1768.6	1701.2	1627.4	1559.9	1489.3
60°	2022.2	1986.8	1935.5	1880.9	1816.7	1752.5	1685.1	1611.3	1534.3	1460.4	1396.2
62.5°	1958.0	1913.0	1864.9	1807.1	1739.7	1678.7	1601.7	1521.4	1444.4	1367.4	1290.3
65°	1884.1	1836.0	1791.0	1733.3	1662.7	1592.0	1515.0	1434.8	1351.3	1267.9	1190.8
67.5°	1810.3	1762.2	1714.0	1656.2	1582.4	1508.6	1428.3	1348.1	1255.0	1174.8	1084.9
70°	1736.5	1698.0	1637.0	1576.0	1508.6	1428.3	1348.1	1261.4	1165.1	1078.5	985.4
72.5°	1662.7	1624.1	1563.2	1499.0	1434.8	1351.3	1264.6	1178.0	1088.1	988.6	889.1
75°	1592.0	1543.9	1489.3	1428.3	1360.9	1274.3	1187.6	1097.7	991.8	898.7	796.0
77.5°	1524.6	1479.7	1425.1	1357.7	1283.9	1200.5	1110.6	1017.5	911.6	812.1	699.7
80°	1450.8	1405.9	1351.3	1283.9	1210.1	1129.8	1033.5	937.3	834.5	725.4	609.9
82.5°	1380.2	1338.5	1277.5	1216.5	1136.3	1056.0	959.7	863.4	754.3	648.4	536.0
85°	1306.4	1264.6	1206.9	1142.7	1065.6	979.0	889.1	792.8	683.7	574.5	462.2
87.5°	1242.2	1194.0	1136.3	1072.1	995.0	911.6	824.9	722.2	616.3	510.4	394.8
90°	1174.8	1129.8	1072.1	1007.9	930.8	847.4	757.5	661.2	558.5	449.4	340.2
92.5°	1117.0	1068.9	1014.3	950.1	873.1	792.8	702.9	606.6	507.1	401.2	295.3
95°	1059.2	1011.1	959.7	895.5	818.5	738.2	648.4	555.3	459.0	356.3	256.8
97.5°	995.0	953.3	901.9	841.0	763.9	686.9	600.2	510.4	417.3	317.8	224.7
100°	943.7	895.5	847.4	783.2	712.6	638.7	552.1	465.4	375.5	282.5	195.8
102.5°	885.9	841.0	792.8	731.8	661.2	587.4	507.1	423.7	340.2	253.6	170.1
105°	831.3	789.6	738.2	680.5	613.1	542.5	465.4	388.4	308.1	224.7	150.9
107.5°	776.8	735.0	686.9	632.3	568.1	497.5	426.9	349.9	276.0	202.2	134.8
110°	722.2	683.7	638.7	584.2	523.2	459.0	391.6	321.0	247.2	179.7	118.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	674.1	635.5	590.6	539.2	481.5	420.5	356.3	288.9	221.5	160.5	102.7
115°	625.9	590.6	545.7	500.7	442.9	385.2	324.2	260.0	199.0	144.4	89.9
117.5°	577.8	542.5	500.7	455.8	404.4	349.9	292.1	231.1	179.7	128.4	80.2
120°	529.6	497.5	459.0	417.3	372.3	317.8	260.0	208.6	160.5	112.3	70.6
122.5°	484.7	455.8	420.5	382.0	333.8	282.5	234.3	189.4	144.4	99.5	57.8
125°	442.9	414.1	382.0	343.4	298.5	253.6	211.8	170.1	125.2	86.7	48.1
127.5°	401.2	372.3	340.2	304.9	269.6	227.9	189.4	150.9	112.3	77.0	41.7
130°	359.5	333.8	304.9	276.0	240.7	202.2	170.1	131.6	96.3	61.0	35.3
132.5°	317.8	298.5	272.8	243.9	211.8	183.0	147.6	115.6	83.5	54.6	32.1
135°	282.5	263.2	240.7	215.1	189.4	160.5	128.4	99.5	70.6	44.9	25.7
137.5°	250.4	234.3	211.8	189.4	166.9	138.0	112.3	83.5	57.8	38.5	19.3
140°	221.5	205.4	186.2	163.7	144.4	118.8	93.1	67.4	51.4	32.1	16.0
142.5°	192.6	176.5	160.5	141.2	122.0	99.5	77.0	57.8	41.7	25.7	16.0
145°	163.7	150.9	134.8	118.8	99.5	80.2	64.2	48.1	32.1	19.3	12.8
147.5°	134.8	125.2	109.1	96.3	80.2	64.2	51.4	38.5	25.7	16.0	9.6
150°	109.1	99.5	86.7	73.8	64.2	51.4	41.7	28.9	19.3	16.0	9.6
152.5°	83.5	77.0	67.4	61.0	51.4	38.5	28.9	22.5	16.0	12.8	6.4
155°	67.4	61.0	54.6	44.9	38.5	28.9	22.5	16.0	12.8	9.6	6.4
157.5°	48.1	44.9	38.5	32.1	25.7	19.3	16.0	16.0	9.6	6.4	3.2
160°	32.1	28.9	25.7	19.3	16.0	16.0	12.8	9.6	6.4	6.4	3.2
162.5°	19.3	16.0	16.0	16.0	12.8	12.8	9.6	6.4	6.4	3.2	3.2
165°	12.8	12.8	12.8	9.6	9.6	9.6	6.4	3.2	3.2	3.2	3.2
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-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3046.1	3036.4	3049.3	3071.7	3075.0	3071.7	3065.3	3075.0	3087.8	3084.6	3062.1
5°	3039.6	3026.8	3039.6	3062.1	3062.1	3058.9	3055.7	3065.3	3078.2	3075.0	3055.7
7.5°	3020.4	3007.5	3020.4	3039.6	3042.9	3036.4	3036.4	3046.1	3058.9	3055.7	3039.6
10°	2994.7	2981.9	2988.3	3010.8	3017.2	3010.8	3010.8	3020.4	3036.4	3033.2	3014.0
12.5°	2956.2	2946.6	2953.0	2972.2	2978.7	2975.5	2972.2	2985.1	3001.1	3001.1	2981.9
15°	2914.5	2901.6	2908.0	2930.5	2933.7	2927.3	2930.5	2940.1	2959.4	2959.4	2943.4
17.5°	2866.3	2850.3	2859.9	2875.9	2879.2	2879.2	2879.2	2892.0	2914.5	2911.3	2898.4
20°	2811.8	2789.3	2795.7	2811.8	2818.2	2818.2	2818.2	2840.6	2856.7	2856.7	2843.9
22.5°	2747.6	2731.5	2731.5	2747.6	2757.2	2754.0	2754.0	2773.2	2795.7	2792.5	2792.5
25°	2673.7	2660.9	2654.5	2673.7	2676.9	2680.2	2686.6	2705.8	2731.5	2731.5	2734.7
27.5°	2596.7	2583.9	2580.7	2596.7	2599.9	2603.1	2609.5	2632.0	2657.7	2660.9	2667.3
30°	2522.9	2503.6	2497.2	2510.0	2516.5	2519.7	2519.7	2555.0	2577.4	2587.1	2599.9
32.5°	2436.2	2417.0	2400.9	2423.4	2426.6	2433.0	2436.2	2471.5	2497.2	2513.2	2532.5
35°	2349.5	2317.4	2311.0	2327.1	2333.5	2336.7	2343.1	2381.6	2417.0	2429.8	2455.5
37.5°	2253.3	2230.8	2211.5	2227.6	2234.0	2237.2	2256.5	2291.8	2327.1	2346.3	2372.0
40°	2163.4	2134.5	2118.4	2128.1	2134.5	2137.7	2160.2	2198.7	2240.4	2262.9	2295.0
42.5°	2063.9	2025.4	2012.5	2022.2	2025.4	2035.0	2054.2	2105.6	2147.3	2179.4	2205.1
45°	1964.4	1935.5	1906.6	1916.2	1919.4	1925.9	1954.7	2009.3	2054.2	2092.8	2121.7
47.5°	1861.7	1826.4	1797.5	1803.9	1816.7	1819.9	1852.0	1916.2	1958.0	1999.7	2038.2
50°	1759.0	1710.8	1688.3	1688.3	1694.8	1710.8	1752.5	1816.7	1861.7	1909.8	1951.5
52.5°	1653.0	1608.1	1582.4	1585.6	1592.0	1611.3	1649.8	1714.0	1765.4	1816.7	1868.1
55°	1547.1	1499.0	1473.3	1466.9	1473.3	1499.0	1543.9	1611.3	1662.7	1723.6	1778.2
57.5°	1441.2	1383.4	1360.9	1351.3	1357.7	1389.8	1434.8	1505.4	1569.6	1627.4	1691.5
60°	1325.6	1280.7	1242.2	1219.7	1235.8	1277.5	1325.6	1399.5	1466.9	1531.1	1601.7
62.5°	1226.1	1168.4	1126.6	1104.2	1120.2	1155.5	1222.9	1293.5	1367.4	1441.2	1511.8
65°	1113.8	1056.0	1007.9	985.4	1001.4	1043.2	1110.6	1187.6	1267.9	1341.7	1425.1
67.5°	1004.7	943.7	885.9	863.4	882.7	927.6	1001.4	1088.1	1174.8	1251.8	1341.7
70°	898.7	831.3	770.3	754.3	767.1	828.1	898.7	985.4	1075.3	1165.1	1258.2
72.5°	802.4	719.0	654.8	635.5	651.6	719.0	799.2	889.1	985.4	1081.7	1181.2
75°	690.1	613.1	542.5	520.0	539.2	600.2	699.7	796.0	898.7	1001.4	1094.5
77.5°	600.2	510.4	436.5	401.2	433.3	510.4	606.6	709.4	815.3	921.2	1027.1
80°	507.1	414.1	333.8	295.3	330.6	414.1	510.4	622.7	741.5	847.4	943.7
82.5°	423.7	324.2	240.7	199.0	237.5	330.6	436.5	548.9	664.4	770.3	882.7
85°	346.7	243.9	157.3	112.3	166.9	250.4	362.7	478.3	597.0	706.1	815.3
87.5°	282.5	183.0	96.3	48.1	102.7	195.8	301.7	417.3	536.0	645.2	747.9
90°	231.1	131.6	51.4	6.4	61.0	147.6	250.4	362.7	475.0	587.4	690.1
92.5°	189.4	99.5	28.9	3.2	38.5	118.8	215.1	321.0	430.1	539.2	638.7
95°	157.3	77.0	19.3	3.2	28.9	93.1	183.0	285.7	388.4	494.3	593.8
97.5°	134.8	64.2	16.0	3.2	22.5	80.2	157.3	253.6	353.1	452.6	548.9
100°	115.6	51.4	12.8	3.2	19.3	67.4	138.0	224.7	317.8	414.1	507.1
102.5°	99.5	41.7	9.6	3.2	16.0	57.8	122.0	202.2	285.7	378.8	468.6
105°	86.7	35.3	9.6	3.2	12.8	51.4	109.1	179.7	263.2	346.7	433.3
107.5°	73.8	28.9	6.4	3.2	9.6	41.7	96.3	163.7	237.5	317.8	398.0
110°	64.2	25.7	6.4	3.2	9.6	38.5	83.5	147.6	215.1	288.9	365.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.6	19.3	6.4	3.2	6.4	32.1	73.8	131.6	195.8	263.2	337.0
115°	48.1	16.0	3.2	3.2	6.4	28.9	67.4	118.8	176.5	240.7	308.1
117.5°	38.5	12.8	3.2	3.2	3.2	22.5	57.8	105.9	160.5	221.5	282.5
120°	32.1	12.8	3.2	3.2	3.2	19.3	51.4	93.1	144.4	199.0	256.8
122.5°	28.9	9.6	3.2	3.2	3.2	16.0	44.9	83.5	128.4	179.7	234.3
125°	25.7	9.6	3.2	3.2	3.2	12.8	38.5	73.8	115.6	160.5	211.8
127.5°	19.3	9.6	3.2	3.2	3.2	9.6	35.3	64.2	102.7	144.4	189.4
130°	16.0	6.4	3.2	3.2	3.2	9.6	28.9	57.8	89.9	128.4	170.1
132.5°	12.8	6.4	3.2	3.2	3.2	6.4	22.5	44.9	77.0	112.3	150.9
135°	12.8	6.4	3.2	3.2	3.2	6.4	16.0	38.5	64.2	96.3	128.4
137.5°	12.8	3.2	3.2	3.2	3.2	6.4	12.8	28.9	51.4	77.0	105.9
140°	9.6	3.2	3.2	3.2	3.2	3.2	9.6	22.5	41.7	64.2	89.9
142.5°	9.6	3.2	3.2	3.2	3.2	3.2	9.6	16.0	32.1	51.4	70.6
145°	6.4	3.2	3.2	3.2	3.2	3.2	6.4	12.8	25.7	38.5	57.8
147.5°	6.4	3.2	3.2	3.2	3.2	3.2	6.4	9.6	19.3	32.1	44.9
150°	6.4	3.2	3.2	3.2	3.2	3.2	6.4	9.6	12.8	22.5	35.3
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	9.6	16.0	22.5
155°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	9.6	12.8	16.0
157.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	9.6	12.8
160°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	9.6
162.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4
165°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3052.5	3030.0	3036.4	3033.2	3039.6	3049.3	3049.3	3046.1	3046.1	3039.6	3033.2
5°	3046.1	3023.6	3033.2	3030.0	3036.4	3046.1	3046.1	3042.9	3042.9	3033.2	3030.0
7.5°	3026.8	3010.8	3017.2	3017.2	3023.6	3033.2	3033.2	3030.0	3030.0	3020.4	3017.2
10°	3007.5	2988.3	2997.9	2997.9	3004.3	3017.2	3017.2	3014.0	3014.0	3004.3	3001.1
12.5°	2975.5	2956.2	2972.2	2975.5	2981.9	2994.7	2991.5	2991.5	2991.5	2981.9	2978.7
15°	2936.9	2924.1	2940.1	2943.4	2953.0	2969.0	2969.0	2969.0	2969.0	2959.4	2956.2
17.5°	2895.2	2885.6	2901.6	2908.0	2920.9	2936.9	2936.9	2940.1	2943.4	2936.9	2933.7
20°	2847.1	2840.6	2856.7	2869.5	2888.8	2904.8	2911.3	2914.5	2920.9	2914.5	2911.3
22.5°	2792.5	2792.5	2815.0	2827.8	2850.3	2866.3	2875.9	2885.6	2892.0	2885.6	2882.4
25°	2731.5	2741.1	2763.6	2786.1	2811.8	2827.8	2837.4	2850.3	2856.7	2853.5	2850.3
27.5°	2673.7	2686.6	2715.5	2737.9	2760.4	2786.1	2795.7	2811.8	2818.2	2818.2	2815.0
30°	2606.3	2625.6	2657.7	2683.4	2712.3	2737.9	2750.8	2766.8	2776.4	2770.0	2773.2
32.5°	2542.1	2574.2	2599.9	2628.8	2660.9	2686.6	2702.6	2721.9	2731.5	2728.3	2731.5
35°	2471.5	2503.6	2538.9	2567.8	2606.3	2632.0	2654.5	2670.5	2683.4	2680.2	2680.2
37.5°	2394.5	2436.2	2471.5	2510.0	2545.3	2574.2	2596.7	2616.0	2628.8	2628.8	2628.8
40°	2320.7	2365.6	2400.9	2445.8	2490.8	2516.5	2542.1	2561.4	2574.2	2577.4	2580.7
42.5°	2240.4	2288.6	2330.3	2378.4	2423.4	2455.5	2484.4	2506.8	2519.7	2526.1	2522.9
45°	2166.6	2211.5	2259.7	2314.2	2356.0	2388.1	2423.4	2449.0	2461.9	2465.1	2468.3
47.5°	2083.1	2134.5	2189.1	2243.6	2285.4	2327.1	2359.2	2384.9	2397.7	2407.3	2407.3
50°	2002.9	2057.5	2118.4	2176.2	2221.2	2262.9	2295.0	2323.9	2339.9	2346.3	2349.5
52.5°	1929.1	1980.4	2044.6	2102.4	2147.3	2189.1	2230.8	2262.9	2278.9	2285.4	2285.4
55°	1839.2	1903.4	1974.0	2028.6	2076.7	2124.9	2166.6	2198.7	2214.7	2224.4	2230.8
57.5°	1755.7	1823.1	1897.0	1954.7	2012.5	2057.5	2096.0	2137.7	2150.5	2163.4	2166.6
60°	1675.5	1742.9	1813.5	1877.7	1935.5	1983.6	2028.6	2063.9	2086.3	2092.8	2099.2
62.5°	1592.0	1662.7	1736.5	1800.7	1861.7	1919.4	1961.2	1993.3	2018.9	2028.6	2035.0
65°	1511.8	1585.6	1659.4	1726.9	1791.0	1848.8	1890.6	1922.6	1948.3	1964.4	1967.6
67.5°	1425.1	1505.4	1582.4	1653.0	1717.2	1778.2	1819.9	1852.0	1877.7	1897.0	1900.2
70°	1344.9	1428.3	1505.4	1582.4	1646.6	1707.6	1752.5	1784.6	1813.5	1826.4	1832.8
72.5°	1267.9	1354.5	1434.8	1511.8	1576.0	1637.0	1685.1	1717.2	1746.1	1762.2	1765.4
75°	1194.0	1280.7	1367.4	1441.2	1508.6	1569.6	1617.7	1653.0	1678.7	1694.8	1701.2
77.5°	1120.2	1210.1	1296.7	1370.6	1441.2	1502.2	1543.9	1585.6	1611.3	1630.6	1630.6
80°	1046.4	1139.5	1229.3	1303.2	1373.8	1428.3	1476.5	1518.2	1543.9	1563.2	1563.2
82.5°	982.2	1072.1	1158.7	1232.5	1303.2	1364.1	1412.3	1450.8	1479.7	1492.5	1495.7
85°	908.4	1007.9	1088.1	1168.4	1235.8	1293.5	1341.7	1383.4	1409.1	1421.9	1428.3
87.5°	847.4	943.7	1030.3	1100.9	1168.4	1226.1	1280.7	1316.0	1341.7	1357.7	1364.1
90°	789.6	882.7	969.3	1040.0	1110.6	1165.1	1216.5	1251.8	1280.7	1293.5	1300.0
92.5°	738.2	831.3	914.8	985.4	1052.8	1113.8	1161.9	1197.2	1222.9	1235.8	1245.4
95°	690.1	780.0	860.2	937.3	1001.4	1056.0	1107.4	1142.7	1171.6	1181.2	1190.8
97.5°	642.0	728.6	808.9	882.7	950.1	1001.4	1049.6	1084.9	1107.4	1123.4	1133.0
100°	600.2	683.7	760.7	831.3	895.5	943.7	995.0	1027.1	1049.6	1062.4	1075.3
102.5°	555.3	638.7	712.6	780.0	847.4	892.3	940.5	972.6	991.8	1014.3	1014.3
105°	516.8	593.8	667.6	731.8	789.6	844.2	885.9	918.0	940.5	956.5	956.5
107.5°	475.0	552.1	622.7	690.1	744.7	796.0	834.5	863.4	889.1	898.7	908.4
110°	442.9	510.4	581.0	645.2	696.5	744.7	783.2	815.3	837.7	847.4	853.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	404.4	475.0	539.2	600.2	651.6	696.5	735.0	760.7	783.2	796.0	799.2
115°	372.3	439.7	497.5	555.3	609.9	648.4	683.7	709.4	731.8	741.5	747.9
117.5°	343.4	404.4	462.2	510.4	561.7	603.4	638.7	661.2	680.5	693.3	699.7
120°	314.6	372.3	423.7	471.8	520.0	558.5	590.6	613.1	635.5	645.2	645.2
122.5°	285.7	340.2	388.4	433.3	478.3	513.6	548.9	568.1	587.4	597.0	597.0
125°	260.0	311.3	356.3	398.0	439.7	471.8	500.7	523.2	542.5	548.9	548.9
127.5°	234.3	282.5	324.2	362.7	398.0	430.1	459.0	481.5	497.5	503.9	503.9
130°	211.8	253.6	292.1	330.6	365.9	391.6	420.5	439.7	449.4	459.0	462.2
132.5°	189.4	227.9	263.2	295.3	330.6	356.3	378.8	398.0	407.6	417.3	420.5
135°	166.9	202.2	234.3	266.4	295.3	321.0	340.2	356.3	369.1	375.5	378.8
137.5°	141.2	179.7	208.6	234.3	266.4	285.7	308.1	317.8	330.6	337.0	337.0
140°	118.8	147.6	179.7	205.4	231.1	250.4	269.6	285.7	295.3	298.5	298.5
142.5°	96.3	122.0	147.6	179.7	202.2	218.3	237.5	250.4	256.8	260.0	263.2
145°	77.0	96.3	118.8	147.6	173.3	192.6	202.2	215.1	221.5	224.7	227.9
147.5°	57.8	77.0	96.3	115.6	141.2	160.5	170.1	183.0	189.4	192.6	192.6
150°	44.9	57.8	70.6	89.9	109.1	131.6	144.4	154.1	157.3	160.5	160.5
152.5°	32.1	44.9	54.6	67.4	80.2	99.5	118.8	125.2	128.4	131.6	131.6
155°	22.5	32.1	38.5	48.1	57.8	73.8	89.9	99.5	102.7	105.9	105.9
157.5°	16.0	22.5	25.7	35.3	41.7	48.1	61.0	77.0	80.2	80.2	80.2
160°	9.6	12.8	16.0	22.5	25.7	32.1	38.5	48.1	57.8	57.8	57.8
162.5°	6.4	9.6	9.6	12.8	12.8	19.3	22.5	25.7	35.3	38.5	38.5
165°	3.2	6.4	6.4	6.4	6.4	6.4	9.6	9.6	16.0	19.3	19.3
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3036.4	3042.9	3039.6	3039.6	3039.6	3046.1	3039.6	3010.8	3017.2	3023.6	3030.0
5°	3033.2	3036.4	3036.4	3033.2	3033.2	3039.6	3033.2	3004.3	3010.8	3017.2	3020.4
7.5°	3020.4	3023.6	3023.6	3023.6	3020.4	3026.8	3017.2	2991.5	2991.5	2997.9	3001.1
10°	3004.3	3010.8	3007.5	3004.3	3004.3	3004.3	2997.9	2969.0	2969.0	2972.2	2975.5
12.5°	2985.1	2985.1	2985.1	2981.9	2978.7	2978.7	2972.2	2943.4	2940.1	2946.6	2943.4
15°	2959.4	2965.8	2959.4	2956.2	2949.8	2949.8	2940.1	2911.3	2904.8	2908.0	2904.8
17.5°	2936.9	2940.1	2933.7	2927.3	2920.9	2917.7	2908.0	2875.9	2866.3	2869.5	2863.1
20°	2914.5	2914.5	2908.0	2901.6	2892.0	2882.4	2869.5	2837.4	2821.4	2821.4	2808.5
22.5°	2885.6	2885.6	2879.2	2869.5	2859.9	2847.1	2834.2	2802.1	2776.4	2770.0	2760.4
25°	2853.5	2850.3	2847.1	2837.4	2818.2	2805.3	2792.5	2757.2	2728.3	2715.5	2699.4
27.5°	2815.0	2815.0	2805.3	2795.7	2776.4	2760.4	2744.3	2712.3	2673.7	2657.7	2635.2
30°	2773.2	2773.2	2763.6	2750.8	2731.5	2712.3	2693.0	2654.5	2616.0	2593.5	2567.8
32.5°	2731.5	2728.3	2718.7	2705.8	2686.6	2657.7	2641.6	2603.1	2558.2	2532.5	2497.2
35°	2680.2	2676.9	2667.3	2651.3	2625.6	2603.1	2577.4	2542.1	2490.8	2458.7	2420.2
37.5°	2628.8	2625.6	2619.2	2596.7	2571.0	2545.3	2513.2	2477.9	2429.8	2388.1	2349.5
40°	2577.4	2574.2	2561.4	2545.3	2513.2	2481.1	2449.0	2413.7	2362.4	2314.2	2272.5
42.5°	2522.9	2519.7	2503.6	2484.4	2449.0	2417.0	2378.4	2339.9	2288.6	2230.8	2189.1
45°	2468.3	2461.9	2445.8	2423.4	2384.9	2349.5	2311.0	2266.1	2214.7	2160.2	2105.6
47.5°	2410.5	2400.9	2384.9	2352.8	2320.7	2282.1	2237.2	2189.1	2137.7	2076.7	2018.9
50°	2346.3	2339.9	2320.7	2291.8	2253.3	2214.7	2163.4	2115.2	2054.2	1996.5	1925.9
52.5°	2285.4	2272.5	2256.5	2224.4	2185.8	2144.1	2089.6	2031.8	1970.8	1916.2	1842.4
55°	2221.2	2214.7	2192.3	2166.6	2118.4	2070.3	2018.9	1958.0	1890.6	1826.4	1755.7
57.5°	2160.2	2147.3	2128.1	2092.8	2051.0	2002.9	1948.3	1884.1	1810.3	1742.9	1665.9
60°	2099.2	2079.9	2057.5	2025.4	1980.4	1929.1	1871.3	1803.9	1730.1	1656.2	1576.0
62.5°	2031.8	2015.7	1990.1	1958.0	1913.0	1858.5	1797.5	1726.9	1656.2	1579.2	1492.5
65°	1964.4	1948.3	1922.6	1890.6	1845.6	1784.6	1720.4	1649.8	1569.6	1495.7	1402.7
67.5°	1897.0	1880.9	1852.0	1816.7	1771.8	1714.0	1646.6	1572.8	1492.5	1412.3	1316.0
70°	1829.6	1810.3	1784.6	1746.1	1701.2	1640.2	1572.8	1495.7	1415.5	1328.8	1232.5
72.5°	1762.2	1746.1	1714.0	1678.7	1630.6	1569.6	1502.2	1425.1	1341.7	1251.8	1155.5
75°	1694.8	1675.5	1653.0	1611.3	1559.9	1502.2	1431.6	1354.5	1264.6	1178.0	1078.5
77.5°	1627.4	1611.3	1582.4	1540.7	1492.5	1431.6	1360.9	1283.9	1194.0	1104.2	998.2
80°	1559.9	1540.7	1518.2	1479.7	1425.1	1364.1	1290.3	1213.3	1123.4	1030.3	924.4
82.5°	1492.5	1473.3	1447.6	1409.1	1357.7	1296.7	1226.1	1142.7	1052.8	956.5	857.0
85°	1425.1	1409.1	1380.2	1341.7	1287.1	1226.1	1155.5	1081.7	985.4	889.1	789.6
87.5°	1357.7	1341.7	1312.8	1274.3	1222.9	1161.9	1091.3	1014.3	921.2	831.3	722.2
90°	1293.5	1280.7	1251.8	1213.3	1161.9	1100.9	1036.8	953.3	863.4	773.6	670.8
92.5°	1235.8	1222.9	1197.2	1158.7	1113.8	1046.4	982.2	901.9	812.1	719.0	619.5
95°	1184.4	1168.4	1142.7	1107.4	1052.8	995.0	930.8	850.6	763.9	670.8	574.5
97.5°	1126.6	1110.6	1084.9	1046.4	1001.4	940.5	876.3	799.2	712.6	625.9	529.6
100°	1068.9	1052.8	1023.9	991.8	946.9	885.9	824.9	747.9	667.6	584.2	491.1
102.5°	1011.1	995.0	969.3	937.3	892.3	837.7	776.8	702.9	622.7	539.2	452.6
105°	956.5	940.5	914.8	882.7	841.0	786.4	722.2	658.0	581.0	500.7	417.3
107.5°	901.9	885.9	863.4	831.3	789.6	738.2	677.3	609.9	539.2	462.2	382.0
110°	847.4	834.5	808.9	780.0	738.2	686.9	632.3	568.1	497.5	426.9	349.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	796.0	783.2	757.5	725.4	690.1	642.0	587.4	526.4	459.0	391.6	317.8
115°	744.7	728.6	706.1	677.3	642.0	597.0	545.7	491.1	423.7	359.5	292.1
117.5°	693.3	680.5	658.0	629.1	597.0	552.1	503.9	452.6	388.4	327.4	266.4
120°	642.0	632.3	609.9	584.2	552.1	510.4	465.4	414.1	356.3	298.5	240.7
122.5°	593.8	584.2	561.7	539.2	507.1	468.6	426.9	378.8	327.4	272.8	221.5
125°	548.9	536.0	516.8	494.3	465.4	430.1	388.4	343.4	295.3	247.2	199.0
127.5°	500.7	491.1	478.3	452.6	423.7	391.6	353.1	314.6	269.6	224.7	179.7
130°	462.2	449.4	433.3	414.1	388.4	356.3	321.0	282.5	243.9	202.2	157.3
132.5°	417.3	404.4	391.6	372.3	349.9	321.0	288.9	253.6	218.3	179.7	141.2
135°	375.5	365.9	353.1	333.8	311.3	288.9	256.8	224.7	192.6	157.3	125.2
137.5°	337.0	327.4	314.6	301.7	279.2	256.8	227.9	199.0	170.1	138.0	109.1
140°	298.5	292.1	279.2	266.4	247.2	224.7	199.0	173.3	147.6	118.8	93.1
142.5°	260.0	253.6	243.9	231.1	215.1	195.8	173.3	150.9	125.2	102.7	80.2
145°	224.7	221.5	211.8	199.0	186.2	166.9	147.6	128.4	105.9	86.7	64.2
147.5°	189.4	186.2	179.7	170.1	157.3	141.2	125.2	105.9	89.9	70.6	51.4
150°	157.3	154.1	150.9	138.0	131.6	115.6	102.7	86.7	73.8	54.6	41.7
152.5°	128.4	128.4	122.0	112.3	105.9	93.1	83.5	70.6	57.8	44.9	32.1
155°	102.7	99.5	96.3	89.9	83.5	73.8	64.2	54.6	44.9	32.1	22.5
157.5°	80.2	77.0	73.8	67.4	61.0	57.8	48.1	38.5	28.9	22.5	16.0
160°	57.8	54.6	51.4	48.1	44.9	38.5	32.1	25.7	19.3	12.8	9.6
162.5°	38.5	35.3	35.3	32.1	28.9	22.5	19.3	16.0	12.8	9.6	6.4
165°	19.3	19.3	16.0	16.0	12.8	9.6	9.6	9.6	6.4	6.4	3.2
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-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3026.8	3026.8	3039.6	3036.4	3026.8	3046.1	3068.5
5°	3017.2	3017.2	3026.8	3026.8	3017.2	3036.4	3055.7
7.5°	3001.1	2997.9	3007.5	3007.5	2994.7	3010.8	3033.2
10°	2972.2	2969.0	2978.7	2978.7	2965.8	2981.9	3001.1
12.5°	2940.1	2933.7	2943.4	2940.1	2927.3	2943.4	2962.6
15°	2898.4	2895.2	2901.6	2895.2	2882.4	2898.4	2917.7
17.5°	2856.7	2847.1	2850.3	2850.3	2827.8	2843.9	2859.9
20°	2802.1	2789.3	2792.5	2789.3	2773.2	2782.9	2802.1
22.5°	2747.6	2728.3	2728.3	2725.1	2705.8	2718.7	2734.7
25°	2680.2	2657.7	2657.7	2654.5	2632.0	2641.6	2657.7
27.5°	2612.7	2590.3	2580.7	2577.4	2555.0	2555.0	2577.4
30°	2542.1	2510.0	2503.6	2494.0	2471.5	2471.5	2490.8
32.5°	2474.7	2429.8	2417.0	2404.1	2381.6	2378.4	2400.9
35°	2384.9	2349.5	2327.1	2314.2	2288.6	2282.1	2301.4
37.5°	2311.0	2266.1	2234.0	2217.9	2192.3	2182.6	2208.3
40°	2230.8	2182.6	2140.9	2131.3	2092.8	2079.9	2102.4
42.5°	2140.9	2089.6	2047.8	2028.6	1999.7	1986.8	1990.1
45°	2051.0	1996.5	1951.5	1925.9	1897.0	1874.5	1887.3
47.5°	1958.0	1909.8	1855.2	1816.7	1781.4	1765.4	1771.8
50°	1864.9	1807.1	1755.7	1714.0	1672.3	1653.0	1665.9
52.5°	1771.8	1710.8	1653.0	1608.1	1559.9	1540.7	1543.9
55°	1681.9	1617.7	1550.3	1502.2	1457.2	1428.3	1421.9
57.5°	1592.0	1521.4	1450.8	1396.2	1338.5	1312.8	1303.2
60°	1495.7	1421.9	1348.1	1283.9	1222.9	1194.0	1181.2
62.5°	1405.9	1325.6	1242.2	1174.8	1113.8	1075.3	1065.6
65°	1319.2	1226.1	1142.7	1065.6	998.2	956.5	943.7
67.5°	1226.1	1129.8	1040.0	956.5	892.3	837.7	831.3
70°	1139.5	1036.8	937.3	850.6	780.0	725.4	699.7
72.5°	1052.8	946.9	844.2	751.1	661.2	609.9	590.6
75°	969.3	860.2	751.1	654.8	555.3	494.3	475.0
77.5°	892.3	780.0	664.4	558.5	465.4	388.4	362.7
80°	818.5	702.9	581.0	471.8	372.3	288.9	260.0
82.5°	741.5	632.3	507.1	391.6	288.9	202.2	166.9
85°	674.1	564.9	439.7	324.2	221.5	128.4	89.9
87.5°	619.5	500.7	388.4	272.8	166.9	73.8	25.7
90°	564.9	449.4	337.0	224.7	125.2	41.7	3.2
92.5°	516.8	407.6	295.3	192.6	96.3	28.9	3.2
95°	471.8	365.9	260.0	160.5	77.0	19.3	3.2
97.5°	430.1	330.6	231.1	138.0	64.2	16.0	3.2
100°	394.8	298.5	205.4	122.0	54.6	12.8	3.2
102.5°	359.5	269.6	183.0	105.9	48.1	9.6	3.2
105°	330.6	243.9	163.7	96.3	41.7	9.6	3.2
107.5°	301.7	221.5	147.6	83.5	35.3	6.4	3.2
110°	272.8	202.2	131.6	73.8	32.1	6.4	3.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	250.4	183.0	118.8	67.4	25.7	6.4	3.2
115°	227.9	163.7	105.9	57.8	22.5	3.2	3.2
117.5°	205.4	147.6	93.1	51.4	19.3	3.2	3.2
120°	186.2	131.6	83.5	44.9	16.0	3.2	3.2
122.5°	166.9	118.8	73.8	38.5	12.8	3.2	3.2
125°	150.9	105.9	64.2	32.1	9.6	3.2	3.2
127.5°	134.8	93.1	57.8	28.9	9.6	3.2	3.2
130°	118.8	83.5	48.1	22.5	6.4	3.2	3.2
132.5°	105.9	70.6	41.7	19.3	6.4	3.2	3.2
135°	93.1	61.0	35.3	12.8	6.4	3.2	3.2
137.5°	80.2	51.4	28.9	9.6	3.2	3.2	3.2
140°	67.4	44.9	22.5	9.6	3.2	3.2	3.2
142.5°	57.8	35.3	16.0	6.4	3.2	3.2	3.2
145°	44.9	28.9	12.8	6.4	3.2	3.2	3.2
147.5°	35.3	22.5	9.6	6.4	3.2	3.2	3.2
150°	25.7	16.0	9.6	3.2	3.2	3.2	3.2
152.5°	19.3	12.8	6.4	3.2	3.2	3.2	3.2
155°	12.8	9.6	6.4	3.2	3.2	3.2	3.2
157.5°	9.6	6.4	3.2	3.2	3.2	3.2	3.2
160°	6.4	3.2	3.2	3.2	3.2	3.2	3.2
162.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
165°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)