

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-L940-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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

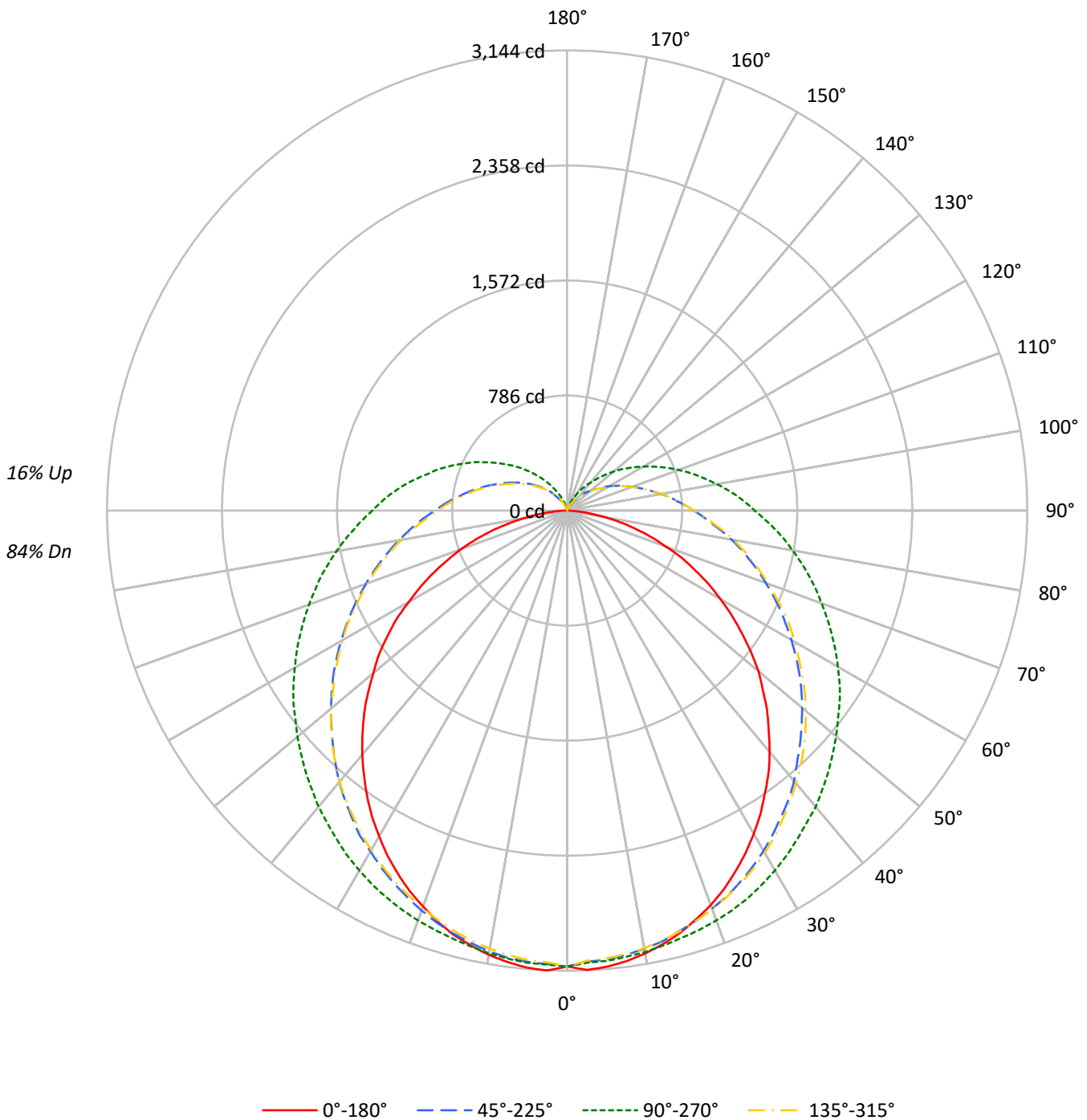
Lumens per Lamp: N/A
Luminaire Lumens: 13533.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

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	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°	12586	12586	12586	12586
5°	12670	12129	12696	12181
10°	12570	11784	12610	11822
15°	12442	11489	12496	11502
20°	12264	11274	12306	11274
25°	12041	11083	12114	11070
30°	11789	10886	11881	10886
35°	11495	10703	11623	10716
40°	11205	10597	11342	10597
45°	10870	10484	11036	10497
50°	10523	10417	10665	10446
55°	10030	10427	10347	10472
60°	9514	10459	9824	10523
65°	8936	10564	9331	10669
70°	8114	10758	8747	10911
75°	7173	11110	7852	11324
80°	5688	11631	6461	11900
85°	3619	12467	4523	12813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	2.2
10°-20°	848.1	6.3
20°-30°	1300.2	9.6
30°-40°	1604.1	11.9
40°-50°	1740.3	12.9
50°-60°	1715.3	12.7
60°-70°	1550.8	11.5
70°-80°	1292.0	9.5
80°-90°	1000.7	7.4
90°-100°	758.9	5.6
100°-110°	561.6	4.2
110°-120°	390.7	2.9
120°-130°	249.3	1.8
130°-140°	139.9	1.0
140°-150°	63.9	0.5
150°-160°	19.8	0.1
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	2443.4	18.1
0°-40°	4047.4	29.9
0°-60°	7503.0	55.4
0°-90°	11346.5	83.8
90°-120°	1711.2	12.6
90°-150°	2164.2	16.0
90°-180°	2186.0	16.2
0°-180°	13533.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3115	3115	3115	3115	3115	
5°	3128	3089	3135	3102	3128	297
15°	2987	3023	3000	3026	2987	842
25°	2721	2921	2737	2918	2721	1253
35°	2356	2740	2382	2744	2356	1475
45°	1932	2524	1962	2527	1932	1488
55°	1456	2274	1502	2284	1456	1303
65°	966	1994	1009	2014	966	957
75°	486	1709	532	1742	486	515
85°	92	1423	115	1462	92	111
90°	3	1281	7	1331	3	5
95°	3	1163	3	1219	3	3
105°	3	923	3	979	3	3
115°	3	703	3	766	3	3
125°	3	506	3	562	3	3
135°	3	329	3	388	3	3
145°	3	191	3	233	3	2
155°	3	79	3	108	3	2
165°	3	13	3	20	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3141.2	3141.2	3137.9	3131.3	3134.6	3144.5	3137.9	3121.5	3111.6	3085.3	3091.9
5°	3128.0	3128.0	3124.8	3118.2	3121.5	3134.6	3128.0	3114.9	3101.8	3078.8	3088.6
7.5°	3105.0	3105.0	3101.8	3095.2	3101.8	3114.9	3108.3	3095.2	3085.3	3062.3	3072.2
10°	3072.2	3075.5	3072.2	3062.3	3075.5	3088.6	3085.3	3068.9	3059.0	3039.3	3049.2
12.5°	3032.8	3036.0	3032.8	3029.5	3036.0	3055.8	3049.2	3036.0	3029.5	3013.0	3022.9
15°	2986.8	2990.0	2983.5	2983.5	2990.0	3009.8	3009.8	2996.6	2990.0	2973.6	2993.3
17.5°	2927.6	2930.9	2927.6	2927.6	2934.2	2953.9	2957.2	2950.6	2944.0	2937.5	2957.2
20°	2868.5	2865.2	2865.2	2861.9	2875.0	2904.6	2901.3	2901.3	2894.8	2894.8	2917.8
22.5°	2799.5	2799.5	2796.2	2796.2	2812.6	2838.9	2838.9	2845.5	2838.9	2852.0	2871.8
25°	2720.6	2723.9	2720.6	2727.2	2740.3	2769.9	2773.2	2783.0	2786.3	2799.5	2822.5
27.5°	2638.5	2641.8	2638.5	2645.0	2668.0	2691.0	2707.5	2720.6	2723.9	2743.6	2773.2
30°	2549.7	2549.7	2553.0	2559.6	2585.9	2622.0	2635.2	2651.6	2651.6	2684.5	2714.0
32.5°	2457.7	2457.7	2457.7	2470.9	2500.5	2543.2	2559.6	2579.3	2585.9	2618.7	2651.6
35°	2355.9	2359.2	2359.2	2369.0	2408.5	2451.2	2474.2	2497.2	2510.3	2549.7	2582.6
37.5°	2260.6	2267.2	2257.3	2270.5	2326.3	2362.5	2388.7	2411.7	2434.7	2487.3	2513.6
40°	2152.2	2158.7	2155.5	2181.7	2227.7	2273.7	2303.3	2326.3	2359.2	2411.7	2441.3
42.5°	2037.2	2043.7	2050.3	2079.9	2129.2	2175.2	2211.3	2240.9	2280.3	2326.3	2375.6
45°	1932.0	1932.0	1941.9	1978.0	2030.6	2079.9	2122.6	2155.5	2201.5	2250.7	2300.0
47.5°	1813.7	1817.0	1830.2	1872.9	1928.7	1987.9	2027.3	2070.0	2119.3	2171.9	2227.7
50°	1705.3	1705.3	1725.0	1771.0	1823.6	1889.3	1932.0	1981.3	2033.9	2096.3	2152.2
52.5°	1580.5	1587.0	1616.6	1659.3	1728.3	1787.5	1836.7	1889.3	1951.7	2017.5	2079.9
55°	1455.6	1468.7	1491.7	1550.9	1623.2	1679.0	1738.2	1803.9	1863.0	1935.3	2007.6
57.5°	1334.0	1343.9	1380.0	1439.2	1514.7	1583.7	1646.2	1708.6	1780.9	1853.2	1928.7
60°	1209.2	1222.3	1265.0	1324.2	1406.3	1478.6	1550.9	1616.6	1692.2	1767.7	1846.6
62.5°	1090.9	1100.7	1150.0	1219.0	1301.2	1380.0	1452.3	1531.2	1613.3	1685.6	1764.5
65°	966.0	982.4	1038.3	1100.7	1196.0	1274.9	1357.0	1442.4	1527.9	1606.7	1682.3
67.5°	851.0	860.9	920.0	992.3	1087.6	1176.3	1261.7	1353.7	1442.4	1524.6	1600.2
70°	716.3	749.2	808.3	883.9	985.7	1077.7	1169.7	1265.0	1360.3	1445.7	1518.0
72.5°	604.6	630.9	696.6	778.7	877.3	985.7	1081.0	1182.9	1278.2	1366.9	1442.4
75°	486.3	512.6	588.2	680.2	782.0	897.0	995.6	1100.7	1199.3	1288.0	1366.9
77.5°	371.3	404.1	486.3	581.6	693.3	811.6	913.4	1018.6	1120.4	1215.7	1294.6
80°	266.1	302.3	391.0	499.4	607.9	726.2	837.9	943.0	1044.9	1140.2	1222.3
82.5°	170.9	210.3	305.6	414.0	529.0	647.3	762.3	867.4	969.3	1064.6	1150.0
85°	92.0	134.7	233.3	341.7	456.7	575.0	690.0	801.7	900.3	989.0	1081.0
87.5°	26.3	78.9	174.1	282.6	400.9	509.3	621.0	732.7	831.3	926.6	1008.7
90°	3.3	46.0	131.4	233.3	348.3	453.4	565.2	670.3	768.9	864.2	946.3
92.5°	3.3	29.6	101.9	193.9	299.0	407.4	519.1	621.0	713.0	808.3	890.4
95°	3.3	23.0	82.1	164.3	262.9	364.7	469.9	568.4	663.7	752.4	834.6
97.5°	3.3	16.4	65.7	141.3	230.0	325.3	427.1	525.7	617.7	703.2	778.7
100°	3.3	13.1	52.6	121.6	200.4	292.4	384.4	479.7	568.4	650.6	729.4
102.5°	3.3	9.9	46.0	101.9	177.4	259.6	348.3	437.0	522.4	601.3	680.2
105°	3.3	9.9	39.4	88.7	157.7	233.3	315.4	400.9	479.7	555.3	627.6
107.5°	3.3	6.6	32.9	75.6	138.0	210.3	285.9	368.0	440.3	512.6	581.6
110°	3.3	6.6	26.3	69.0	121.6	187.3	259.6	335.1	404.1	473.1	538.9



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.3	6.6	23.0	59.1	105.1	167.6	233.3	302.3	368.0	437.0	496.1
115°	3.3	6.6	19.7	52.6	98.6	144.6	210.3	272.7	338.4	400.9	456.7
117.5°	3.3	6.6	16.4	42.7	85.4	131.4	184.0	246.4	305.6	364.7	417.3
120°	3.3	6.6	13.1	39.4	75.6	118.3	164.3	220.1	276.0	331.9	387.7
122.5°	3.3	3.3	13.1	32.9	65.7	105.1	151.1	193.9	246.4	299.0	348.3
125°	3.3	3.3	13.1	29.6	55.9	95.3	134.7	174.1	220.1	266.1	308.9
127.5°	3.3	3.3	9.9	23.0	49.3	82.1	118.3	161.0	193.9	236.6	279.3
130°	3.3	3.3	9.9	19.7	42.7	69.0	105.1	141.3	180.7	210.3	246.4
132.5°	3.3	3.3	9.9	16.4	32.9	55.9	88.7	121.6	157.7	190.6	220.1
135°	3.3	3.3	6.6	13.1	26.3	46.0	72.3	101.9	138.0	170.9	200.4
137.5°	3.3	3.3	6.6	13.1	19.7	39.4	55.9	82.1	115.0	144.6	174.1
140°	3.3	3.3	6.6	9.9	16.4	29.6	46.0	65.7	92.0	118.3	151.1
142.5°	3.3	3.3	3.3	9.9	13.1	23.0	36.1	52.6	72.3	95.3	121.6
145°	3.3	3.3	3.3	9.9	13.1	16.4	29.6	42.7	55.9	72.3	95.3
147.5°	3.3	3.3	3.3	6.6	9.9	13.1	23.0	32.9	42.7	55.9	69.0
150°	3.3	3.3	3.3	6.6	9.9	13.1	16.4	23.0	32.9	46.0	55.9
152.5°	3.3	3.3	3.3	6.6	6.6	9.9	13.1	16.4	23.0	32.9	39.4
155°	3.3	3.3	3.3	3.3	6.6	9.9	13.1	13.1	16.4	23.0	29.6
157.5°	3.3	3.3	3.3	3.3	6.6	6.6	9.9	9.9	13.1	13.1	19.7
160°	3.3	3.3	3.3	3.3	3.3	6.6	6.6	9.9	9.9	9.9	9.9
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	6.6	9.9	9.9
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	6.6
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3091.9	3095.2	3105.0	3105.0	3098.5	3098.5	3095.2	3091.9	3095.2	3101.8	3101.8
5°	3085.3	3088.6	3098.5	3101.8	3095.2	3091.9	3091.9	3088.6	3091.9	3098.5	3098.5
7.5°	3072.2	3075.5	3085.3	3088.6	3082.0	3082.0	3078.8	3075.5	3082.0	3085.3	3085.3
10°	3052.5	3055.8	3068.9	3072.2	3068.9	3065.6	3065.6	3062.3	3065.6	3072.2	3072.2
12.5°	3026.2	3032.8	3049.2	3049.2	3049.2	3045.9	3045.9	3042.6	3045.9	3052.5	3049.2
15°	2996.6	3009.8	3022.9	3029.5	3029.5	3029.5	3026.2	3022.9	3029.5	3032.8	3029.5
17.5°	2963.8	2980.2	2999.9	3006.5	3006.5	3009.8	3006.5	3003.2	3009.8	3009.8	3006.5
20°	2930.9	2947.3	2967.0	2973.6	2980.2	2983.5	2983.5	2980.2	2983.5	2986.8	2983.5
22.5°	2888.2	2907.9	2930.9	2940.8	2947.3	2953.9	2953.9	2953.9	2957.2	2960.5	2953.9
25°	2842.2	2865.2	2891.5	2901.3	2914.5	2917.8	2921.0	2921.0	2924.3	2927.6	2917.8
27.5°	2792.9	2819.2	2845.5	2861.9	2871.8	2878.3	2878.3	2881.6	2884.9	2888.2	2878.3
30°	2733.8	2773.2	2796.2	2809.3	2822.5	2832.3	2835.6	2838.9	2842.2	2845.5	2835.6
32.5°	2681.2	2714.0	2743.6	2760.0	2776.5	2789.6	2792.9	2792.9	2799.5	2799.5	2789.6
35°	2618.7	2658.2	2687.8	2704.2	2723.9	2733.8	2740.3	2740.3	2746.9	2746.9	2737.0
37.5°	2556.3	2595.7	2628.6	2648.3	2671.3	2684.5	2687.8	2687.8	2694.3	2694.3	2681.2
40°	2490.6	2533.3	2569.5	2592.5	2612.2	2628.6	2631.9	2641.8	2641.8	2638.5	2625.3
42.5°	2424.9	2464.3	2503.7	2530.0	2556.3	2572.7	2579.3	2582.6	2582.6	2579.3	2569.5
45°	2352.6	2398.6	2434.7	2467.6	2493.9	2510.3	2520.2	2523.5	2523.5	2516.9	2507.0
47.5°	2283.6	2329.6	2365.7	2401.9	2428.2	2447.9	2457.7	2461.0	2457.7	2454.5	2444.6
50°	2211.3	2263.9	2300.0	2336.2	2362.5	2378.9	2395.3	2398.6	2395.3	2392.0	2372.3
52.5°	2135.7	2191.6	2231.0	2267.2	2296.7	2316.5	2329.6	2332.9	2332.9	2326.3	2313.2
55°	2060.2	2109.5	2158.7	2198.2	2231.0	2250.7	2267.2	2273.7	2267.2	2260.6	2244.2
57.5°	1991.2	2037.2	2086.5	2129.2	2162.0	2188.3	2201.5	2208.0	2201.5	2191.6	2175.2
60°	1909.0	1958.3	2014.2	2053.6	2089.7	2116.0	2122.6	2135.7	2129.2	2119.3	2102.9
62.5°	1830.2	1889.3	1938.6	1987.9	2017.5	2047.0	2060.2	2066.7	2060.2	2050.3	2033.9
65°	1748.0	1813.7	1863.0	1912.3	1945.2	1974.7	1991.2	1994.5	1987.9	1978.0	1961.6
67.5°	1672.5	1734.9	1787.5	1840.0	1869.6	1899.2	1915.6	1922.2	1915.6	1902.5	1886.0
70°	1596.9	1659.3	1721.7	1761.2	1797.3	1830.2	1840.0	1849.9	1843.3	1830.2	1810.5
72.5°	1521.3	1587.0	1649.5	1688.9	1728.3	1757.9	1771.0	1780.9	1774.3	1761.2	1738.2
75°	1442.4	1511.4	1573.9	1616.6	1656.0	1685.6	1698.7	1708.6	1702.0	1688.9	1662.6
77.5°	1370.2	1439.2	1498.3	1544.3	1583.7	1610.0	1633.0	1636.3	1629.7	1616.6	1590.3
80°	1294.6	1363.6	1426.0	1472.0	1511.4	1537.7	1554.2	1564.0	1557.4	1544.3	1518.0
82.5°	1228.9	1291.3	1353.7	1399.7	1439.2	1472.0	1485.2	1495.0	1491.7	1472.0	1452.3
85°	1156.6	1228.9	1278.2	1327.4	1366.9	1399.7	1409.6	1422.7	1419.4	1403.0	1376.7
87.5°	1084.3	1156.6	1215.7	1265.0	1301.2	1327.4	1343.9	1350.4	1347.2	1330.7	1301.2
90°	1025.2	1090.9	1150.0	1202.6	1232.2	1261.7	1278.2	1281.4	1281.4	1261.7	1238.7
92.5°	969.3	1031.7	1090.9	1140.2	1176.3	1202.6	1215.7	1222.3	1219.0	1202.6	1176.3
95°	906.9	975.9	1031.7	1081.0	1117.2	1143.4	1156.6	1163.2	1159.9	1143.4	1117.2
97.5°	854.3	916.7	972.6	1018.6	1054.7	1081.0	1094.2	1100.7	1100.7	1084.3	1058.0
100°	801.7	864.2	916.7	962.7	995.6	1021.9	1035.0	1038.3	1035.0	1021.9	995.6
102.5°	749.2	808.3	860.9	903.6	939.7	962.7	975.9	979.2	979.2	962.7	936.4
105°	696.6	755.7	805.0	851.0	880.6	903.6	913.4	923.3	920.0	906.9	880.6
107.5°	647.3	706.4	752.4	795.2	824.7	847.7	857.6	867.4	864.2	851.0	824.7
110°	601.3	657.2	699.9	742.6	768.9	791.9	808.3	811.6	805.0	791.9	768.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	558.6	607.9	650.6	690.0	719.6	736.0	749.2	755.7	749.2	736.0	719.6
115°	512.6	561.9	604.6	640.7	667.0	686.7	696.6	703.2	696.6	683.4	667.0
117.5°	469.9	515.9	558.6	594.7	617.7	634.2	644.0	650.6	644.0	634.2	617.7
120°	433.7	473.1	512.6	545.4	571.7	584.9	594.7	601.3	598.0	584.9	568.4
122.5°	391.0	433.7	469.9	502.7	525.7	538.9	545.4	552.0	548.7	538.9	522.4
125°	354.9	391.0	427.1	456.7	479.7	492.9	499.4	506.0	502.7	492.9	473.1
127.5°	315.4	354.9	384.4	414.0	430.4	450.1	453.4	460.0	456.7	446.9	430.4
130°	285.9	315.4	345.0	371.3	391.0	404.1	410.7	414.0	407.4	400.9	384.4
132.5°	249.7	282.6	308.9	331.9	345.0	358.1	364.7	368.0	368.0	358.1	345.0
135°	223.4	246.4	269.4	292.4	305.6	318.7	325.3	328.6	325.3	318.7	305.6
137.5°	200.4	220.1	236.6	256.3	272.7	279.3	285.9	285.9	282.6	279.3	269.4
140°	174.1	197.1	213.6	226.7	239.9	243.1	249.7	249.7	246.4	243.1	236.6
142.5°	147.9	167.6	184.0	200.4	210.3	216.9	220.1	223.4	220.1	216.9	207.0
145°	118.3	141.3	157.7	167.6	180.7	184.0	187.3	190.6	187.3	184.0	174.1
147.5°	92.0	111.7	128.1	141.3	151.1	154.4	157.7	161.0	157.7	151.1	147.9
150°	65.7	82.1	101.9	115.0	121.6	128.1	128.1	128.1	131.4	124.9	118.3
152.5°	52.6	59.1	72.3	85.4	95.3	98.6	101.9	101.9	98.6	98.6	92.0
155°	36.1	42.7	52.6	62.4	72.3	75.6	78.9	78.9	75.6	75.6	72.3
157.5°	23.0	29.6	36.1	42.7	52.6	55.9	59.1	59.1	59.1	55.9	52.6
160°	13.1	16.4	19.7	26.3	32.9	36.1	39.4	39.4	39.4	39.4	36.1
162.5°	9.9	9.9	9.9	13.1	16.4	19.7	23.0	23.0	23.0	23.0	19.7
165°	6.6	6.6	6.6	6.6	6.6	9.9	13.1	13.1	13.1	13.1	13.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3098.5	3098.5	3101.8	3095.2	3075.5	3078.8	3078.8	3091.9	3098.5	3101.8	3118.2
5°	3091.9	3091.9	3098.5	3088.6	3072.2	3072.2	3072.2	3085.3	3088.6	3095.2	3108.3
7.5°	3082.0	3082.0	3085.3	3075.5	3055.8	3055.8	3052.5	3065.6	3072.2	3075.5	3088.6
10°	3065.6	3065.6	3068.9	3059.0	3036.0	3036.0	3032.8	3042.6	3045.9	3052.5	3062.3
12.5°	3042.6	3042.6	3042.6	3032.8	3009.8	3006.5	3003.2	3013.0	3013.0	3016.3	3026.2
15°	3022.9	3016.3	3016.3	3006.5	2983.5	2976.9	2970.3	2973.6	2980.2	2976.9	2983.5
17.5°	2999.9	2993.3	2986.8	2976.9	2947.3	2937.5	2930.9	2934.2	2930.9	2927.6	2934.2
20°	2973.6	2963.8	2960.5	2944.0	2914.5	2898.0	2884.9	2878.3	2881.6	2871.8	2875.0
22.5°	2944.0	2930.9	2924.3	2904.6	2875.0	2855.3	2838.9	2825.8	2822.5	2809.3	2812.6
25°	2907.9	2891.5	2881.6	2865.2	2832.3	2809.3	2789.6	2769.9	2760.0	2743.6	2740.3
27.5°	2865.2	2848.8	2835.6	2819.2	2786.3	2756.8	2733.8	2707.5	2694.3	2674.6	2664.8
30°	2822.5	2802.8	2783.0	2769.9	2733.8	2700.9	2664.8	2641.8	2622.0	2599.0	2582.6
32.5°	2769.9	2750.2	2730.5	2710.8	2677.9	2638.5	2608.9	2572.7	2549.7	2523.5	2503.7
35°	2717.3	2691.0	2671.3	2645.0	2615.5	2569.5	2533.3	2497.2	2467.6	2438.0	2415.0
37.5°	2658.2	2638.5	2608.9	2585.9	2549.7	2503.7	2464.3	2418.3	2392.0	2352.6	2323.0
40°	2602.3	2579.3	2549.7	2520.2	2484.0	2431.5	2388.7	2336.2	2306.6	2260.6	2231.0
42.5°	2546.5	2513.6	2484.0	2451.2	2411.7	2362.5	2309.9	2257.3	2217.9	2175.2	2132.5
45°	2484.0	2447.9	2411.7	2375.6	2336.2	2286.9	2231.0	2175.2	2125.9	2086.5	2033.9
47.5°	2418.3	2382.2	2339.5	2300.0	2257.3	2208.0	2148.9	2089.7	2037.2	1991.2	1935.3
50°	2352.6	2316.5	2270.5	2227.7	2178.5	2129.2	2066.7	1997.7	1941.9	1882.7	1833.5
52.5°	2283.6	2247.5	2204.7	2148.9	2096.3	2047.0	1981.3	1909.0	1846.6	1797.3	1734.9
55°	2214.6	2178.5	2129.2	2073.3	2020.7	1958.3	1895.9	1823.6	1754.6	1695.5	1633.0
57.5°	2142.3	2109.5	2053.6	2007.6	1941.9	1876.2	1810.5	1741.5	1665.9	1596.9	1524.6
60°	2070.0	2033.9	1981.3	1925.5	1859.7	1794.0	1725.0	1649.5	1570.6	1495.0	1429.3
62.5°	2004.3	1958.3	1909.0	1849.9	1780.9	1718.5	1639.6	1557.4	1478.6	1399.7	1320.9
65°	1928.7	1879.5	1833.5	1774.3	1702.0	1629.7	1550.9	1468.7	1383.3	1297.9	1219.0
67.5°	1853.2	1803.9	1754.6	1695.5	1619.9	1544.3	1462.2	1380.0	1284.7	1202.6	1110.6
70°	1777.6	1738.2	1675.7	1613.3	1544.3	1462.2	1380.0	1291.3	1192.7	1104.0	1008.7
72.5°	1702.0	1662.6	1600.2	1534.4	1468.7	1383.3	1294.6	1205.9	1113.9	1012.0	910.2
75°	1629.7	1580.5	1524.6	1462.2	1393.2	1304.4	1215.7	1123.7	1015.3	920.0	814.9
77.5°	1560.7	1514.7	1458.9	1389.9	1314.3	1228.9	1136.9	1041.6	933.2	831.3	716.3
80°	1485.2	1439.2	1383.3	1314.3	1238.7	1156.6	1058.0	959.4	854.3	742.6	624.3
82.5°	1412.9	1370.2	1307.7	1245.3	1163.2	1081.0	982.4	883.9	772.2	663.7	548.7
85°	1337.3	1294.6	1235.4	1169.7	1090.9	1002.2	910.2	811.6	699.9	588.2	473.1
87.5°	1271.6	1222.3	1163.2	1097.4	1018.6	933.2	844.4	739.3	630.9	522.4	404.1
90°	1202.6	1156.6	1097.4	1031.7	952.9	867.4	775.4	676.9	571.7	460.0	348.3
92.5°	1143.4	1094.2	1038.3	972.6	893.7	811.6	719.6	621.0	519.1	410.7	302.3
95°	1084.3	1035.0	982.4	916.7	837.9	755.7	663.7	568.4	469.9	364.7	262.9
97.5°	1018.6	975.9	923.3	860.9	782.0	703.2	614.4	522.4	427.1	325.3	230.0
100°	966.0	916.7	867.4	801.7	729.4	653.9	565.2	476.4	384.4	289.1	200.4
102.5°	906.9	860.9	811.6	749.2	676.9	601.3	519.1	433.7	348.3	259.6	174.1
105°	851.0	808.3	755.7	696.6	627.6	555.3	476.4	397.6	315.4	230.0	154.4
107.5°	795.2	752.4	703.2	647.3	581.6	509.3	437.0	358.1	282.6	207.0	138.0
110°	739.3	699.9	653.9	598.0	535.6	469.9	400.9	328.6	253.0	184.0	121.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	690.0	650.6	604.6	552.0	492.9	430.4	364.7	295.7	226.7	164.3	105.1
115°	640.7	604.6	558.6	512.6	453.4	394.3	331.9	266.1	203.7	147.9	92.0
117.5°	591.4	555.3	512.6	466.6	414.0	358.1	299.0	236.6	184.0	131.4	82.1
120°	542.2	509.3	469.9	427.1	381.1	325.3	266.1	213.6	164.3	115.0	72.3
122.5°	496.1	466.6	430.4	391.0	341.7	289.1	239.9	193.9	147.9	101.9	59.1
125°	453.4	423.9	391.0	351.6	305.6	259.6	216.9	174.1	128.1	88.7	49.3
127.5°	410.7	381.1	348.3	312.1	276.0	233.3	193.9	154.4	115.0	78.9	42.7
130°	368.0	341.7	312.1	282.6	246.4	207.0	174.1	134.7	98.6	62.4	36.1
132.5°	325.3	305.6	279.3	249.7	216.9	187.3	151.1	118.3	85.4	55.9	32.9
135°	289.1	269.4	246.4	220.1	193.9	164.3	131.4	101.9	72.3	46.0	26.3
137.5°	256.3	239.9	216.9	193.9	170.9	141.3	115.0	85.4	59.1	39.4	19.7
140°	226.7	210.3	190.6	167.6	147.9	121.6	95.3	69.0	52.6	32.9	16.4
142.5°	197.1	180.7	164.3	144.6	124.9	101.9	78.9	59.1	42.7	26.3	16.4
145°	167.6	154.4	138.0	121.6	101.9	82.1	65.7	49.3	32.9	19.7	13.1
147.5°	138.0	128.1	111.7	98.6	82.1	65.7	52.6	39.4	26.3	16.4	9.9
150°	111.7	101.9	88.7	75.6	65.7	52.6	42.7	29.6	19.7	16.4	9.9
152.5°	85.4	78.9	69.0	62.4	52.6	39.4	29.6	23.0	16.4	13.1	6.6
155°	69.0	62.4	55.9	46.0	39.4	29.6	23.0	16.4	13.1	9.9	6.6
157.5°	49.3	46.0	39.4	32.9	26.3	19.7	16.4	16.4	9.9	6.6	3.3
160°	32.9	29.6	26.3	19.7	16.4	16.4	13.1	9.9	6.6	6.6	3.3
162.5°	19.7	16.4	16.4	16.4	13.1	13.1	9.9	6.6	6.6	3.3	3.3
165°	13.1	13.1	13.1	9.9	9.9	9.9	6.6	3.3	3.3	3.3	3.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3118.2	3108.3	3121.5	3144.5	3147.8	3144.5	3137.9	3147.8	3160.9	3157.6	3134.6
5°	3111.6	3098.5	3111.6	3134.6	3134.6	3131.3	3128.0	3137.9	3151.0	3147.8	3128.0
7.5°	3091.9	3078.8	3091.9	3111.6	3114.9	3108.3	3108.3	3118.2	3131.3	3128.0	3111.6
10°	3065.6	3052.5	3059.0	3082.0	3088.6	3082.0	3082.0	3091.9	3108.3	3105.0	3085.3
12.5°	3026.2	3016.3	3022.9	3042.6	3049.2	3045.9	3042.6	3055.8	3072.2	3072.2	3052.5
15°	2983.5	2970.3	2976.9	2999.9	3003.2	2996.6	2999.9	3009.8	3029.5	3029.5	3013.0
17.5°	2934.2	2917.8	2927.6	2944.0	2947.3	2947.3	2947.3	2960.5	2983.5	2980.2	2967.0
20°	2878.3	2855.3	2861.9	2878.3	2884.9	2884.9	2884.9	2907.9	2924.3	2924.3	2911.2
22.5°	2812.6	2796.2	2796.2	2812.6	2822.5	2819.2	2819.2	2838.9	2861.9	2858.6	2858.6
25°	2737.0	2723.9	2717.3	2737.0	2740.3	2743.6	2750.2	2769.9	2796.2	2796.2	2799.5
27.5°	2658.2	2645.0	2641.8	2658.2	2661.5	2664.8	2671.3	2694.3	2720.6	2723.9	2730.5
30°	2582.6	2562.9	2556.3	2569.5	2576.0	2579.3	2579.3	2615.5	2638.5	2648.3	2661.5
32.5°	2493.9	2474.2	2457.7	2480.7	2484.0	2490.6	2493.9	2530.0	2556.3	2572.7	2592.5
35°	2405.2	2372.3	2365.7	2382.2	2388.7	2392.0	2398.6	2438.0	2474.2	2487.3	2513.6
37.5°	2306.6	2283.6	2263.9	2280.3	2286.9	2290.2	2309.9	2346.0	2382.2	2401.9	2428.2
40°	2214.6	2185.0	2168.6	2178.5	2185.0	2188.3	2211.3	2250.7	2293.5	2316.5	2349.3
42.5°	2112.7	2073.3	2060.2	2070.0	2073.3	2083.2	2102.9	2155.5	2198.2	2231.0	2257.3
45°	2010.9	1981.3	1951.7	1961.6	1964.9	1971.5	2001.0	2056.9	2102.9	2142.3	2171.9
47.5°	1905.7	1869.6	1840.0	1846.6	1859.7	1863.0	1895.9	1961.6	2004.3	2047.0	2086.5
50°	1800.6	1751.3	1728.3	1728.3	1734.9	1751.3	1794.0	1859.7	1905.7	1955.0	1997.7
52.5°	1692.2	1646.2	1619.9	1623.2	1629.7	1649.5	1688.9	1754.6	1807.2	1859.7	1912.3
55°	1583.7	1534.4	1508.2	1501.6	1508.2	1534.4	1580.5	1649.5	1702.0	1764.5	1820.3
57.5°	1475.3	1416.2	1393.2	1383.3	1389.9	1422.7	1468.7	1541.0	1606.7	1665.9	1731.6
60°	1357.0	1311.0	1271.6	1248.6	1265.0	1307.7	1357.0	1432.6	1501.6	1567.3	1639.6
62.5°	1255.2	1196.0	1153.3	1130.3	1146.7	1182.9	1251.9	1324.2	1399.7	1475.3	1547.6
65°	1140.2	1081.0	1031.7	1008.7	1025.2	1067.9	1136.9	1215.7	1297.9	1373.4	1458.9
67.5°	1028.4	966.0	906.9	883.9	903.6	949.6	1025.2	1113.9	1202.6	1281.4	1373.4
70°	920.0	851.0	788.6	772.2	785.3	847.7	920.0	1008.7	1100.7	1192.7	1288.0
72.5°	821.4	736.0	670.3	650.6	667.0	736.0	818.2	910.2	1008.7	1107.3	1209.2
75°	706.4	627.6	555.3	532.3	552.0	614.4	716.3	814.9	920.0	1025.2	1120.4
77.5°	614.4	522.4	446.9	410.7	443.6	522.4	621.0	726.2	834.6	943.0	1051.4
80°	519.1	423.9	341.7	302.3	338.4	423.9	522.4	637.4	759.0	867.4	966.0
82.5°	433.7	331.9	246.4	203.7	243.1	338.4	446.9	561.9	680.2	788.6	903.6
85°	354.9	249.7	161.0	115.0	170.9	256.3	371.3	489.6	611.2	722.9	834.6
87.5°	289.1	187.3	98.6	49.3	105.1	200.4	308.9	427.1	548.7	660.4	765.6
90°	236.6	134.7	52.6	6.6	62.4	151.1	256.3	371.3	486.3	601.3	706.4
92.5°	193.9	101.9	29.6	3.3	39.4	121.6	220.1	328.6	440.3	552.0	653.9
95°	161.0	78.9	19.7	3.3	29.6	95.3	187.3	292.4	397.6	506.0	607.9
97.5°	138.0	65.7	16.4	3.3	23.0	82.1	161.0	259.6	361.4	463.3	561.9
100°	118.3	52.6	13.1	3.3	19.7	69.0	141.3	230.0	325.3	423.9	519.1
102.5°	101.9	42.7	9.9	3.3	16.4	59.1	124.9	207.0	292.4	387.7	479.7
105°	88.7	36.1	9.9	3.3	13.1	52.6	111.7	184.0	269.4	354.9	443.6
107.5°	75.6	29.6	6.6	3.3	9.9	42.7	98.6	167.6	243.1	325.3	407.4
110°	65.7	26.3	6.6	3.3	9.9	39.4	85.4	151.1	220.1	295.7	374.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	55.9	19.7	6.6	3.3	6.6	32.9	75.6	134.7	200.4	269.4	345.0
115°	49.3	16.4	3.3	3.3	6.6	29.6	69.0	121.6	180.7	246.4	315.4
117.5°	39.4	13.1	3.3	3.3	3.3	23.0	59.1	108.4	164.3	226.7	289.1
120°	32.9	13.1	3.3	3.3	3.3	19.7	52.6	95.3	147.9	203.7	262.9
122.5°	29.6	9.9	3.3	3.3	3.3	16.4	46.0	85.4	131.4	184.0	239.9
125°	26.3	9.9	3.3	3.3	3.3	13.1	39.4	75.6	118.3	164.3	216.9
127.5°	19.7	9.9	3.3	3.3	3.3	9.9	36.1	65.7	105.1	147.9	193.9
130°	16.4	6.6	3.3	3.3	3.3	9.9	29.6	59.1	92.0	131.4	174.1
132.5°	13.1	6.6	3.3	3.3	3.3	6.6	23.0	46.0	78.9	115.0	154.4
135°	13.1	6.6	3.3	3.3	3.3	6.6	16.4	39.4	65.7	98.6	131.4
137.5°	13.1	3.3	3.3	3.3	3.3	6.6	13.1	29.6	52.6	78.9	108.4
140°	9.9	3.3	3.3	3.3	3.3	3.3	9.9	23.0	42.7	65.7	92.0
142.5°	9.9	3.3	3.3	3.3	3.3	3.3	9.9	16.4	32.9	52.6	72.3
145°	6.6	3.3	3.3	3.3	3.3	3.3	6.6	13.1	26.3	39.4	59.1
147.5°	6.6	3.3	3.3	3.3	3.3	3.3	6.6	9.9	19.7	32.9	46.0
150°	6.6	3.3	3.3	3.3	3.3	3.3	6.6	9.9	13.1	23.0	36.1
152.5°	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	9.9	16.4	23.0
155°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	9.9	13.1	16.4
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	9.9	13.1
160°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	9.9
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3124.8	3101.8	3108.3	3105.0	3111.6	3121.5	3121.5	3118.2	3118.2	3111.6	3105.0
5°	3118.2	3095.2	3105.0	3101.8	3108.3	3118.2	3118.2	3114.9	3114.9	3105.0	3101.8
7.5°	3098.5	3082.0	3088.6	3088.6	3095.2	3105.0	3105.0	3101.8	3101.8	3091.9	3088.6
10°	3078.8	3059.0	3068.9	3068.9	3075.5	3088.6	3088.6	3085.3	3085.3	3075.5	3072.2
12.5°	3045.9	3026.2	3042.6	3045.9	3052.5	3065.6	3062.3	3062.3	3062.3	3052.5	3049.2
15°	3006.5	2993.3	3009.8	3013.0	3022.9	3039.3	3039.3	3039.3	3039.3	3029.5	3026.2
17.5°	2963.8	2953.9	2970.3	2976.9	2990.0	3006.5	3006.5	3009.8	3013.0	3006.5	3003.2
20°	2914.5	2907.9	2924.3	2937.5	2957.2	2973.6	2980.2	2983.5	2990.0	2983.5	2980.2
22.5°	2858.6	2858.6	2881.6	2894.8	2917.8	2934.2	2944.0	2953.9	2960.5	2953.9	2950.6
25°	2796.2	2806.0	2829.0	2852.0	2878.3	2894.8	2904.6	2917.8	2924.3	2921.0	2917.8
27.5°	2737.0	2750.2	2779.8	2802.8	2825.8	2852.0	2861.9	2878.3	2884.9	2884.9	2881.6
30°	2668.0	2687.8	2720.6	2746.9	2776.5	2802.8	2815.9	2832.3	2842.2	2835.6	2838.9
32.5°	2602.3	2635.2	2661.5	2691.0	2723.9	2750.2	2766.6	2786.3	2796.2	2792.9	2796.2
35°	2530.0	2562.9	2599.0	2628.6	2668.0	2694.3	2717.3	2733.8	2746.9	2743.6	2743.6
37.5°	2451.2	2493.9	2530.0	2569.5	2605.6	2635.2	2658.2	2677.9	2691.0	2691.0	2691.0
40°	2375.6	2421.6	2457.7	2503.7	2549.7	2576.0	2602.3	2622.0	2635.2	2638.5	2641.8
42.5°	2293.5	2342.7	2385.5	2434.7	2480.7	2513.6	2543.2	2566.2	2579.3	2585.9	2582.6
45°	2217.9	2263.9	2313.2	2369.0	2411.7	2444.6	2480.7	2507.0	2520.2	2523.5	2526.7
47.5°	2132.5	2185.0	2240.9	2296.7	2339.5	2382.2	2415.0	2441.3	2454.5	2464.3	2464.3
50°	2050.3	2106.2	2168.6	2227.7	2273.7	2316.5	2349.3	2378.9	2395.3	2401.9	2405.2
52.5°	1974.7	2027.3	2093.0	2152.2	2198.2	2240.9	2283.6	2316.5	2332.9	2339.5	2339.5
55°	1882.7	1948.5	2020.7	2076.6	2125.9	2175.2	2217.9	2250.7	2267.2	2277.0	2283.6
57.5°	1797.3	1866.3	1941.9	2001.0	2060.2	2106.2	2145.6	2188.3	2201.5	2214.6	2217.9
60°	1715.2	1784.2	1856.5	1922.2	1981.3	2030.6	2076.6	2112.7	2135.7	2142.3	2148.9
62.5°	1629.7	1702.0	1777.6	1843.3	1905.7	1964.9	2007.6	2040.5	2066.7	2076.6	2083.2
65°	1547.6	1623.2	1698.7	1767.7	1833.5	1892.6	1935.3	1968.2	1994.5	2010.9	2014.2
67.5°	1458.9	1541.0	1619.9	1692.2	1757.9	1820.3	1863.0	1895.9	1922.2	1941.9	1945.2
70°	1376.7	1462.2	1541.0	1619.9	1685.6	1748.0	1794.0	1826.9	1856.5	1869.6	1876.2
72.5°	1297.9	1386.6	1468.7	1547.6	1613.3	1675.7	1725.0	1757.9	1787.5	1803.9	1807.2
75°	1222.3	1311.0	1399.7	1475.3	1544.3	1606.7	1656.0	1692.2	1718.5	1734.9	1741.5
77.5°	1146.7	1238.7	1327.4	1403.0	1475.3	1537.7	1580.5	1623.2	1649.5	1669.2	1669.2
80°	1071.2	1166.4	1258.4	1334.0	1406.3	1462.2	1511.4	1554.2	1580.5	1600.2	1600.2
82.5°	1005.4	1097.4	1186.2	1261.7	1334.0	1396.4	1445.7	1485.2	1514.7	1527.9	1531.2
85°	929.9	1031.7	1113.9	1196.0	1265.0	1324.2	1373.4	1416.2	1442.4	1455.6	1462.2
87.5°	867.4	966.0	1054.7	1127.0	1196.0	1255.2	1311.0	1347.2	1373.4	1389.9	1396.4
90°	808.3	903.6	992.3	1064.6	1136.9	1192.7	1245.3	1281.4	1311.0	1324.2	1330.7
92.5°	755.7	851.0	936.4	1008.7	1077.7	1140.2	1189.4	1225.6	1251.9	1265.0	1274.9
95°	706.4	798.4	880.6	959.4	1025.2	1081.0	1133.6	1169.7	1199.3	1209.2	1219.0
97.5°	657.2	745.9	828.0	903.6	972.6	1025.2	1074.4	1110.6	1133.6	1150.0	1159.9
100°	614.4	699.9	778.7	851.0	916.7	966.0	1018.6	1051.4	1074.4	1087.6	1100.7
102.5°	568.4	653.9	729.4	798.4	867.4	913.4	962.7	995.6	1015.3	1038.3	1038.3
105°	529.0	607.9	683.4	749.2	808.3	864.2	906.9	939.7	962.7	979.2	979.2
107.5°	486.3	565.2	637.4	706.4	762.3	814.9	854.3	883.9	910.2	920.0	929.9
110°	453.4	522.4	594.7	660.4	713.0	762.3	801.7	834.6	857.6	867.4	874.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	414.0	486.3	552.0	614.4	667.0	713.0	752.4	778.7	801.7	814.9	818.2
115°	381.1	450.1	509.3	568.4	624.3	663.7	699.9	726.2	749.2	759.0	765.6
117.5°	351.6	414.0	473.1	522.4	575.0	617.7	653.9	676.9	696.6	709.7	716.3
120°	322.0	381.1	433.7	483.0	532.3	571.7	604.6	627.6	650.6	660.4	660.4
122.5°	292.4	348.3	397.6	443.6	489.6	525.7	561.9	581.6	601.3	611.2	611.2
125°	266.1	318.7	364.7	407.4	450.1	483.0	512.6	535.6	555.3	561.9	561.9
127.5°	239.9	289.1	331.9	371.3	407.4	440.3	469.9	492.9	509.3	515.9	515.9
130°	216.9	259.6	299.0	338.4	374.6	400.9	430.4	450.1	460.0	469.9	473.1
132.5°	193.9	233.3	269.4	302.3	338.4	364.7	387.7	407.4	417.3	427.1	430.4
135°	170.9	207.0	239.9	272.7	302.3	328.6	348.3	364.7	377.9	384.4	387.7
137.5°	144.6	184.0	213.6	239.9	272.7	292.4	315.4	325.3	338.4	345.0	345.0
140°	121.6	151.1	184.0	210.3	236.6	256.3	276.0	292.4	302.3	305.6	305.6
142.5°	98.6	124.9	151.1	184.0	207.0	223.4	243.1	256.3	262.9	266.1	269.4
145°	78.9	98.6	121.6	151.1	177.4	197.1	207.0	220.1	226.7	230.0	233.3
147.5°	59.1	78.9	98.6	118.3	144.6	164.3	174.1	187.3	193.9	197.1	197.1
150°	46.0	59.1	72.3	92.0	111.7	134.7	147.9	157.7	161.0	164.3	164.3
152.5°	32.9	46.0	55.9	69.0	82.1	101.9	121.6	128.1	131.4	134.7	134.7
155°	23.0	32.9	39.4	49.3	59.1	75.6	92.0	101.9	105.1	108.4	108.4
157.5°	16.4	23.0	26.3	36.1	42.7	49.3	62.4	78.9	82.1	82.1	82.1
160°	9.9	13.1	16.4	23.0	26.3	32.9	39.4	49.3	59.1	59.1	59.1
162.5°	6.6	9.9	9.9	13.1	13.1	19.7	23.0	26.3	36.1	39.4	39.4
165°	3.3	6.6	6.6	6.6	6.6	6.6	9.9	9.9	16.4	19.7	19.7
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-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3108.3	3114.9	3111.6	3111.6	3111.6	3118.2	3111.6	3082.0	3088.6	3095.2	3101.8
5°	3105.0	3108.3	3108.3	3105.0	3105.0	3111.6	3105.0	3075.5	3082.0	3088.6	3091.9
7.5°	3091.9	3095.2	3095.2	3095.2	3091.9	3098.5	3088.6	3062.3	3062.3	3068.9	3072.2
10°	3075.5	3082.0	3078.8	3075.5	3075.5	3075.5	3068.9	3039.3	3039.3	3042.6	3045.9
12.5°	3055.8	3055.8	3055.8	3052.5	3049.2	3049.2	3042.6	3013.0	3009.8	3016.3	3013.0
15°	3029.5	3036.0	3029.5	3026.2	3019.6	3019.6	3009.8	2980.2	2973.6	2976.9	2973.6
17.5°	3006.5	3009.8	3003.2	2996.6	2990.0	2986.8	2976.9	2944.0	2934.2	2937.5	2930.9
20°	2983.5	2983.5	2976.9	2970.3	2960.5	2950.6	2937.5	2904.6	2888.2	2888.2	2875.0
22.5°	2953.9	2953.9	2947.3	2937.5	2927.6	2914.5	2901.3	2868.5	2842.2	2835.6	2825.8
25°	2921.0	2917.8	2914.5	2904.6	2884.9	2871.8	2858.6	2822.5	2792.9	2779.8	2763.3
27.5°	2881.6	2881.6	2871.8	2861.9	2842.2	2825.8	2809.3	2776.5	2737.0	2720.6	2697.6
30°	2838.9	2838.9	2829.0	2815.9	2796.2	2776.5	2756.8	2717.3	2677.9	2654.9	2628.6
32.5°	2796.2	2792.9	2783.0	2769.9	2750.2	2720.6	2704.2	2664.8	2618.7	2592.5	2556.3
35°	2743.6	2740.3	2730.5	2714.0	2687.8	2664.8	2638.5	2602.3	2549.7	2516.9	2477.5
37.5°	2691.0	2687.8	2681.2	2658.2	2631.9	2605.6	2572.7	2536.6	2487.3	2444.6	2405.2
40°	2638.5	2635.2	2622.0	2605.6	2572.7	2539.9	2507.0	2470.9	2418.3	2369.0	2326.3
42.5°	2582.6	2579.3	2562.9	2543.2	2507.0	2474.2	2434.7	2395.3	2342.7	2283.6	2240.9
45°	2526.7	2520.2	2503.7	2480.7	2441.3	2405.2	2365.7	2319.7	2267.2	2211.3	2155.5
47.5°	2467.6	2457.7	2441.3	2408.5	2375.6	2336.2	2290.2	2240.9	2188.3	2125.9	2066.7
50°	2401.9	2395.3	2375.6	2346.0	2306.6	2267.2	2214.6	2165.3	2102.9	2043.7	1971.5
52.5°	2339.5	2326.3	2309.9	2277.0	2237.6	2194.9	2139.0	2079.9	2017.5	1961.6	1886.0
55°	2273.7	2267.2	2244.2	2217.9	2168.6	2119.3	2066.7	2004.3	1935.3	1869.6	1797.3
57.5°	2211.3	2198.2	2178.5	2142.3	2099.6	2050.3	1994.5	1928.7	1853.2	1784.2	1705.3
60°	2148.9	2129.2	2106.2	2073.3	2027.3	1974.7	1915.6	1846.6	1771.0	1695.5	1613.3
62.5°	2079.9	2063.5	2037.2	2004.3	1958.3	1902.5	1840.0	1767.7	1695.5	1616.6	1527.9
65°	2010.9	1994.5	1968.2	1935.3	1889.3	1826.9	1761.2	1688.9	1606.7	1531.2	1435.9
67.5°	1941.9	1925.5	1895.9	1859.7	1813.7	1754.6	1685.6	1610.0	1527.9	1445.7	1347.2
70°	1872.9	1853.2	1826.9	1787.5	1741.5	1679.0	1610.0	1531.2	1449.0	1360.3	1261.7
72.5°	1803.9	1787.5	1754.6	1718.5	1669.2	1606.7	1537.7	1458.9	1373.4	1281.4	1182.9
75°	1734.9	1715.2	1692.2	1649.5	1596.9	1537.7	1465.4	1386.6	1294.6	1205.9	1104.0
77.5°	1665.9	1649.5	1619.9	1577.2	1527.9	1465.4	1393.2	1314.3	1222.3	1130.3	1021.9
80°	1596.9	1577.2	1554.2	1514.7	1458.9	1396.4	1320.9	1242.0	1150.0	1054.7	946.3
82.5°	1527.9	1508.2	1481.9	1442.4	1389.9	1327.4	1255.2	1169.7	1077.7	979.2	877.3
85°	1458.9	1442.4	1412.9	1373.4	1317.6	1255.2	1182.9	1107.3	1008.7	910.2	808.3
87.5°	1389.9	1373.4	1343.9	1304.4	1251.9	1189.4	1117.2	1038.3	943.0	851.0	739.3
90°	1324.2	1311.0	1281.4	1242.0	1189.4	1127.0	1061.3	975.9	883.9	791.9	686.7
92.5°	1265.0	1251.9	1225.6	1186.2	1140.2	1071.2	1005.4	923.3	831.3	736.0	634.2
95°	1212.4	1196.0	1169.7	1133.6	1077.7	1018.6	952.9	870.7	782.0	686.7	588.2
97.5°	1153.3	1136.9	1110.6	1071.2	1025.2	962.7	897.0	818.2	729.4	640.7	542.2
100°	1094.2	1077.7	1048.2	1015.3	969.3	906.9	844.4	765.6	683.4	598.0	502.7
102.5°	1035.0	1018.6	992.3	959.4	913.4	857.6	795.2	719.6	637.4	552.0	463.3
105°	979.2	962.7	936.4	903.6	860.9	805.0	739.3	673.6	594.7	512.6	427.1
107.5°	923.3	906.9	883.9	851.0	808.3	755.7	693.3	624.3	552.0	473.1	391.0
110°	867.4	854.3	828.0	798.4	755.7	703.2	647.3	581.6	509.3	437.0	358.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	814.9	801.7	775.4	742.6	706.4	657.2	601.3	538.9	469.9	400.9	325.3
115°	762.3	745.9	722.9	693.3	657.2	611.2	558.6	502.7	433.7	368.0	299.0
117.5°	709.7	696.6	673.6	644.0	611.2	565.2	515.9	463.3	397.6	335.1	272.7
120°	657.2	647.3	624.3	598.0	565.2	522.4	476.4	423.9	364.7	305.6	246.4
122.5°	607.9	598.0	575.0	552.0	519.1	479.7	437.0	387.7	335.1	279.3	226.7
125°	561.9	548.7	529.0	506.0	476.4	440.3	397.6	351.6	302.3	253.0	203.7
127.5°	512.6	502.7	489.6	463.3	433.7	400.9	361.4	322.0	276.0	230.0	184.0
130°	473.1	460.0	443.6	423.9	397.6	364.7	328.6	289.1	249.7	207.0	161.0
132.5°	427.1	414.0	400.9	381.1	358.1	328.6	295.7	259.6	223.4	184.0	144.6
135°	384.4	374.6	361.4	341.7	318.7	295.7	262.9	230.0	197.1	161.0	128.1
137.5°	345.0	335.1	322.0	308.9	285.9	262.9	233.3	203.7	174.1	141.3	111.7
140°	305.6	299.0	285.9	272.7	253.0	230.0	203.7	177.4	151.1	121.6	95.3
142.5°	266.1	259.6	249.7	236.6	220.1	200.4	177.4	154.4	128.1	105.1	82.1
145°	230.0	226.7	216.9	203.7	190.6	170.9	151.1	131.4	108.4	88.7	65.7
147.5°	193.9	190.6	184.0	174.1	161.0	144.6	128.1	108.4	92.0	72.3	52.6
150°	161.0	157.7	154.4	141.3	134.7	118.3	105.1	88.7	75.6	55.9	42.7
152.5°	131.4	131.4	124.9	115.0	108.4	95.3	85.4	72.3	59.1	46.0	32.9
155°	105.1	101.9	98.6	92.0	85.4	75.6	65.7	55.9	46.0	32.9	23.0
157.5°	82.1	78.9	75.6	69.0	62.4	59.1	49.3	39.4	29.6	23.0	16.4
160°	59.1	55.9	52.6	49.3	46.0	39.4	32.9	26.3	19.7	13.1	9.9
162.5°	39.4	36.1	36.1	32.9	29.6	23.0	19.7	16.4	13.1	9.9	6.6
165°	19.7	19.7	16.4	16.4	13.1	9.9	9.9	9.9	6.6	6.6	3.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3098.5	3098.5	3111.6	3108.3	3098.5	3118.2	3141.2
5°	3088.6	3088.6	3098.5	3098.5	3088.6	3108.3	3128.0
7.5°	3072.2	3068.9	3078.8	3078.8	3065.6	3082.0	3105.0
10°	3042.6	3039.3	3049.2	3049.2	3036.0	3052.5	3072.2
12.5°	3009.8	3003.2	3013.0	3009.8	2996.6	3013.0	3032.8
15°	2967.0	2963.8	2970.3	2963.8	2950.6	2967.0	2986.8
17.5°	2924.3	2914.5	2917.8	2917.8	2894.8	2911.2	2927.6
20°	2868.5	2855.3	2858.6	2855.3	2838.9	2848.8	2868.5
22.5°	2812.6	2792.9	2792.9	2789.6	2769.9	2783.0	2799.5
25°	2743.6	2720.6	2720.6	2717.3	2694.3	2704.2	2720.6
27.5°	2674.6	2651.6	2641.8	2638.5	2615.5	2615.5	2638.5
30°	2602.3	2569.5	2562.9	2553.0	2530.0	2530.0	2549.7
32.5°	2533.3	2487.3	2474.2	2461.0	2438.0	2434.7	2457.7
35°	2441.3	2405.2	2382.2	2369.0	2342.7	2336.2	2355.9
37.5°	2365.7	2319.7	2286.9	2270.5	2244.2	2234.3	2260.6
40°	2283.6	2234.3	2191.6	2181.7	2142.3	2129.2	2152.2
42.5°	2191.6	2139.0	2096.3	2076.6	2047.0	2033.9	2037.2
45°	2099.6	2043.7	1997.7	1971.5	1941.9	1918.9	1932.0
47.5°	2004.3	1955.0	1899.2	1859.7	1823.6	1807.2	1813.7
50°	1909.0	1849.9	1797.3	1754.6	1711.9	1692.2	1705.3
52.5°	1813.7	1751.3	1692.2	1646.2	1596.9	1577.2	1580.5
55°	1721.7	1656.0	1587.0	1537.7	1491.7	1462.2	1455.6
57.5°	1629.7	1557.4	1485.2	1429.3	1370.2	1343.9	1334.0
60°	1531.2	1455.6	1380.0	1314.3	1251.9	1222.3	1209.2
62.5°	1439.2	1357.0	1271.6	1202.6	1140.2	1100.7	1090.9
65°	1350.4	1255.2	1169.7	1090.9	1021.9	979.2	966.0
67.5°	1255.2	1156.6	1064.6	979.2	913.4	857.6	851.0
70°	1166.4	1061.3	959.4	870.7	798.4	742.6	716.3
72.5°	1077.7	969.3	864.2	768.9	676.9	624.3	604.6
75°	992.3	880.6	768.9	670.3	568.4	506.0	486.3
77.5°	913.4	798.4	680.2	571.7	476.4	397.6	371.3
80°	837.9	719.6	594.7	483.0	381.1	295.7	266.1
82.5°	759.0	647.3	519.1	400.9	295.7	207.0	170.9
85°	690.0	578.3	450.1	331.9	226.7	131.4	92.0
87.5°	634.2	512.6	397.6	279.3	170.9	75.6	26.3
90°	578.3	460.0	345.0	230.0	128.1	42.7	3.3
92.5°	529.0	417.3	302.3	197.1	98.6	29.6	3.3
95°	483.0	374.6	266.1	164.3	78.9	19.7	3.3
97.5°	440.3	338.4	236.6	141.3	65.7	16.4	3.3
100°	404.1	305.6	210.3	124.9	55.9	13.1	3.3
102.5°	368.0	276.0	187.3	108.4	49.3	9.9	3.3
105°	338.4	249.7	167.6	98.6	42.7	9.9	3.3
107.5°	308.9	226.7	151.1	85.4	36.1	6.6	3.3
110°	279.3	207.0	134.7	75.6	32.9	6.6	3.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	256.3	187.3	121.6	69.0	26.3	6.6	3.3
115°	233.3	167.6	108.4	59.1	23.0	3.3	3.3
117.5°	210.3	151.1	95.3	52.6	19.7	3.3	3.3
120°	190.6	134.7	85.4	46.0	16.4	3.3	3.3
122.5°	170.9	121.6	75.6	39.4	13.1	3.3	3.3
125°	154.4	108.4	65.7	32.9	9.9	3.3	3.3
127.5°	138.0	95.3	59.1	29.6	9.9	3.3	3.3
130°	121.6	85.4	49.3	23.0	6.6	3.3	3.3
132.5°	108.4	72.3	42.7	19.7	6.6	3.3	3.3
135°	95.3	62.4	36.1	13.1	6.6	3.3	3.3
137.5°	82.1	52.6	29.6	9.9	3.3	3.3	3.3
140°	69.0	46.0	23.0	9.9	3.3	3.3	3.3
142.5°	59.1	36.1	16.4	6.6	3.3	3.3	3.3
145°	46.0	29.6	13.1	6.6	3.3	3.3	3.3
147.5°	36.1	23.0	9.9	6.6	3.3	3.3	3.3
150°	26.3	16.4	9.9	3.3	3.3	3.3	3.3
152.5°	19.7	13.1	6.6	3.3	3.3	3.3	3.3
155°	13.1	9.9	6.6	3.3	3.3	3.3	3.3
157.5°	9.9	6.6	3.3	3.3	3.3	3.3	3.3
160°	6.6	3.3	3.3	3.3	3.3	3.3	3.3
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)