

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-LD5-64SL-RW-UNV-L930-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 (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-64SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

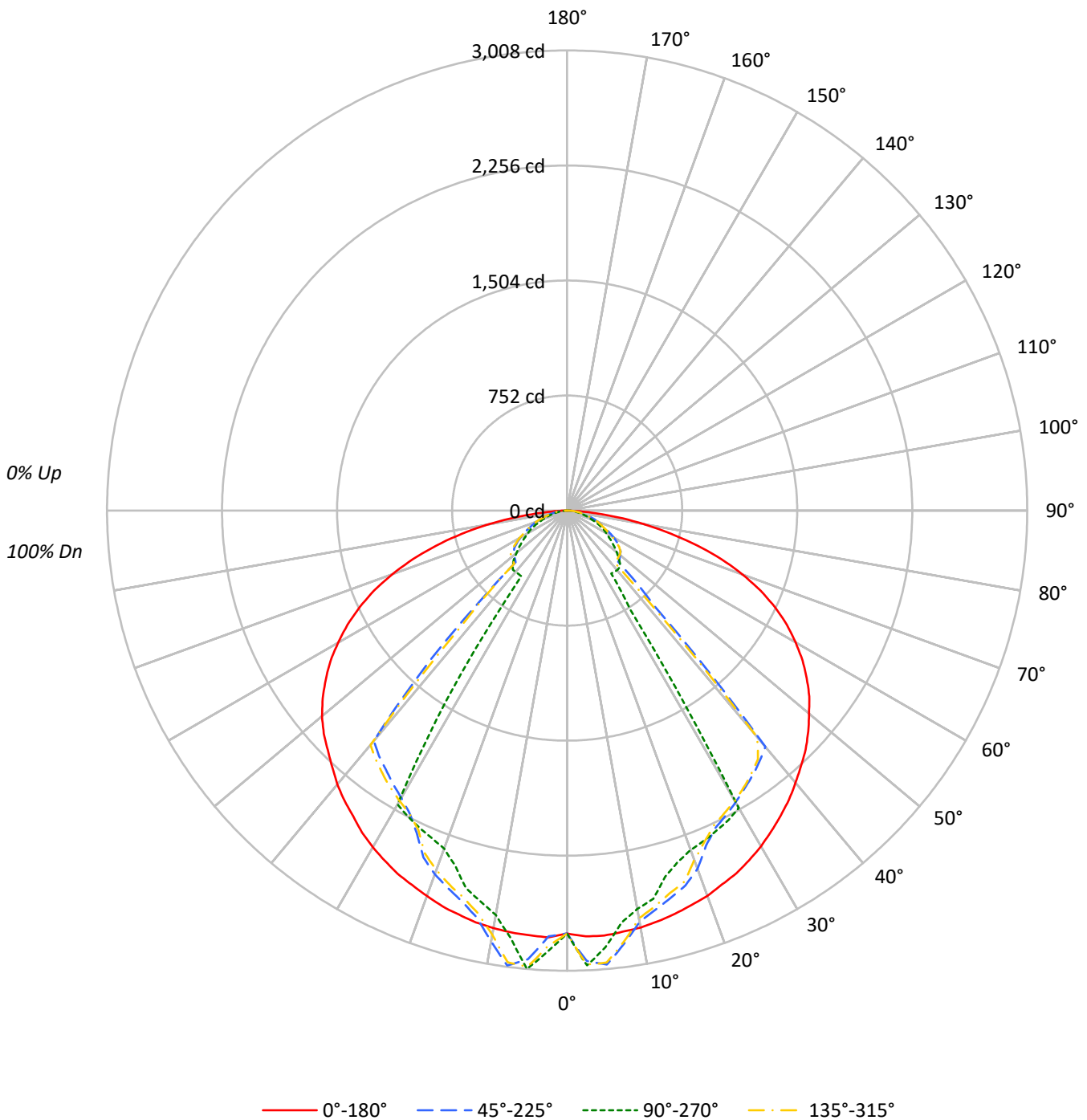
Lumens per Lamp: N/A
Luminaire Lumens: 5536.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 50
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11170	11170	11170	11170
5°	11295	11254	11290	11812
10°	11322	10175	11337	10331
15°	11363	9414	11389	9713
20°	11462	8929	11462	8896
25°	11580	8758	11596	8677
30°	11716	8604	11746	8502
35°	11875	1960	11900	2044
40°	12091	2038	12163	2104
45°	12410	2027	12453	2100
50°	12736	1832	12909	1882
55°	13174	1627	13279	1650
60°	13568	1446	13598	1464
65°	13889	1262	13854	1242
70°	13806	1017	13763	980
75°	12988	783	13083	750
80°	10805	556	11239	509
85°	6231	333	6577	255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	4.9
10°-20°	747.9	13.5
20°-30°	1107.7	20.0
30°-40°	1116.1	20.2
40°-50°	871.9	15.7
50°-60°	673.5	12.2
60°-70°	452.2	8.2
70°-80°	230.7	4.2
80°-90°	64.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2127.6	38.4
0°-40°	3243.7	58.6
0°-60°	4789.0	86.5
0°-90°	5536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5536.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2764	2764	2764	2764	2764	
5°	2789	2866	2787	3008	2789	265
15°	2728	2477	2734	2556	2728	772
25°	2616	2308	2620	2287	2616	1207
35°	2434	502	2439	523	2434	1525
45°	2206	488	2213	506	2206	1701
55°	1912	355	1927	360	1912	1708
65°	1501	238	1498	234	1501	1477
75°	880	120	887	115	880	921
85°	158	38	167	29	158	218
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2786.1	2796.2	2803.8	2808.9	2811.4	2811.4	2812.7	2813.9	2830.4	2838.0	2843.1
5°	2788.6	2798.7	2813.9	2834.2	2852.0	2867.2	2879.8	2897.6	2915.3	2934.3	2940.6
7.5°	2777.2	2789.9	2820.3	2857.0	2891.2	2915.3	2931.8	2943.2	2952.0	2953.3	2959.6
10°	2767.1	2789.9	2831.7	2879.8	2922.9	2952.0	2952.0	2945.7	2954.6	2920.4	2886.2
12.5°	2749.3	2774.7	2831.7	2895.0	2935.6	2947.0	2941.9	2916.6	2864.6	2822.8	2803.8
15°	2727.8	2762.0	2833.0	2903.9	2938.1	2941.9	2893.8	2829.2	2789.9	2764.5	2732.9
17.5°	2703.7	2749.3	2834.2	2905.2	2917.8	2900.1	2808.9	2768.3	2727.8	2668.2	2625.2
20°	2680.9	2725.3	2824.1	2887.4	2895.0	2815.2	2744.3	2701.2	2632.8	2580.8	2561.8
22.5°	2645.4	2697.4	2815.2	2863.4	2834.2	2741.7	2673.3	2604.9	2542.8	2527.6	2504.8
25°	2616.3	2670.8	2794.9	2834.2	2756.9	2674.6	2594.8	2514.9	2485.8	2464.3	2444.0
27.5°	2577.0	2644.2	2768.3	2781.0	2674.6	2602.4	2485.8	2450.3	2423.7	2399.6	2390.8
30°	2533.9	2616.3	2731.6	2707.5	2606.2	2499.7	2413.6	2380.6	2361.6	2336.3	2326.2
32.5°	2484.5	2574.5	2691.1	2622.6	2532.7	2399.6	2343.9	2318.6	2293.2	2274.2	2210.9
35°	2433.9	2537.7	2642.9	2541.5	2444.0	2323.6	2274.2	2251.4	2227.3	2157.7	2091.8
37.5°	2381.9	2497.2	2584.6	2454.1	2326.2	2245.1	2203.3	2177.9	2123.4	2034.8	2001.8
40°	2322.4	2447.8	2509.9	2364.2	2223.5	2165.3	2126.0	2100.6	1977.7	1938.5	1928.3
42.5°	2262.8	2399.6	2418.7	2276.8	2138.7	2080.4	2047.4	1963.8	1880.2	1859.9	1863.7
45°	2205.8	2347.7	2318.6	2152.6	2050.0	2001.8	1946.1	1830.8	1786.4	1796.6	1799.1
47.5°	2137.4	2285.6	2213.4	2028.4	1958.7	1910.6	1786.4	1716.7	1710.4	1724.4	1732.0
50°	2063.9	2215.9	2101.9	1915.7	1859.9	1802.9	1662.3	1626.8	1634.4	1648.3	1657.2
52.5°	1995.5	2137.4	1986.6	1810.5	1762.4	1631.9	1536.8	1543.2	1555.8	1572.3	1577.4
55°	1911.9	2042.4	1863.7	1704.1	1658.5	1487.4	1444.3	1459.6	1472.2	1486.2	1496.3
57.5°	1824.4	1933.4	1718.0	1585.0	1511.5	1359.5	1363.3	1373.4	1382.3	1398.7	577.7
60°	1724.4	1809.2	1558.4	1474.8	1329.1	1258.1	1261.9	1279.6	1288.5	719.6	397.8
62.5°	1620.5	1664.8	1413.9	1349.3	1161.8	1156.7	1174.5	1182.1	804.5	380.1	372.5
65°	1501.4	1492.5	1272.0	1169.4	1047.8	1052.9	1071.9	1033.9	356.0	356.0	353.5
67.5°	1369.6	1316.4	1133.9	968.0	937.6	949.0	969.2	338.3	329.4	331.9	323.1
70°	1218.8	1144.1	990.8	819.7	829.9	841.3	326.9	306.6	302.8	296.5	278.7
72.5°	1059.2	956.6	810.9	712.0	718.4	451.0	286.3	276.2	263.5	250.9	231.9
75°	880.5	747.5	595.5	595.5	604.3	257.2	249.6	233.1	219.2	202.7	191.3
77.5°	690.5	575.2	462.4	480.2	234.4	215.4	201.4	183.7	172.3	162.2	155.8
80°	505.5	401.6	348.4	311.7	182.4	163.4	149.5	139.4	134.3	128.0	120.4
82.5°	331.9	242.0	242.0	147.0	128.0	112.8	109.0	101.4	96.3	92.5	88.7
85°	158.4	140.6	106.4	90.0	79.8	72.2	69.7	65.9	65.9	64.6	63.3
87.5°	58.3	63.3	46.9	45.6	43.1	41.8	43.1	43.1	44.3	43.1	41.8
90°	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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2855.8	2865.9	2873.5	2886.2	2902.6	2916.6	2929.2	2947.0	2974.9	2982.5	2988.8
5°	2940.6	2944.4	2953.3	2963.5	2966.0	2972.3	2971.1	2978.7	2982.5	2991.3	2972.3
7.5°	2945.7	2925.4	2901.4	2879.8	2864.6	2850.7	2841.8	2855.8	2863.4	2869.7	2850.7
10°	2839.3	2815.2	2801.3	2788.6	2773.4	2751.9	2722.7	2729.1	2726.5	2726.5	2720.2
12.5°	2772.1	2737.9	2702.5	2670.8	2656.8	2655.6	2656.8	2670.8	2670.8	2669.5	2661.9
15°	2667.0	2634.0	2616.3	2608.7	2608.7	2604.9	2604.9	2620.1	2616.3	2616.3	2612.5
17.5°	2597.3	2574.5	2561.8	2553.0	2549.2	2555.5	2563.1	2569.4	2570.7	2565.6	2545.3
20°	2540.3	2518.7	2503.5	2506.1	2504.8	2508.6	2512.4	2490.9	2464.3	2428.8	2412.3
22.5°	2480.7	2464.3	2452.9	2452.9	2437.7	2413.6	2378.1	2370.5	2366.7	2350.2	2336.3
25°	2423.7	2404.7	2388.2	2337.6	2305.9	2309.7	2303.4	2290.7	2289.4	2288.2	2293.2
27.5°	2366.7	2317.3	2253.9	2246.3	2233.7	2232.4	2240.0	2246.3	2246.3	2251.4	2257.7
30°	2248.9	2191.9	2180.5	2166.5	2171.6	2189.3	2193.1	2202.0	2204.5	2213.4	2218.5
32.5°	2141.2	2115.8	2105.7	2112.0	2128.5	2143.7	2152.6	2156.4	2162.7	2170.3	2176.7
35°	2053.8	2046.2	2055.0	2069.0	2085.4	2098.1	2105.7	2113.3	2119.6	2126.0	2131.0
37.5°	1989.1	1994.2	2006.9	2024.6	2041.1	2051.2	2057.6	2066.4	2075.3	2082.9	2052.5
40°	1928.3	1941.0	1954.9	1973.9	1987.9	1998.0	2004.4	2015.8	1939.7	878.0	481.4
42.5°	1875.1	1889.1	1899.2	1914.4	1929.6	1937.2	1881.5	840.0	475.1	472.6	478.9
45°	1810.5	1821.9	1838.4	1849.8	1863.7	1223.9	467.5	472.6	465.0	470.0	472.6
47.5°	1744.6	1762.4	1771.2	1690.1	503.0	465.0	459.9	465.0	459.9	466.2	462.4
50°	1669.9	1691.4	1203.6	454.8	451.0	448.5	453.6	451.0	454.8	459.9	449.8
52.5°	1593.9	987.0	440.9	438.4	440.9	438.4	447.2	440.9	442.2	437.1	424.4
55°	539.7	427.0	423.2	421.9	429.5	429.5	429.5	419.4	413.0	400.4	391.5
57.5°	413.0	413.0	411.8	413.0	410.5	408.0	396.6	387.7	378.8	361.1	356.0
60°	391.5	391.5	391.5	391.5	380.1	375.0	357.3	349.7	334.5	325.6	320.5
62.5°	373.8	371.2	359.8	356.0	343.3	329.4	319.3	311.7	296.5	291.4	287.6
65°	348.4	339.5	325.6	310.4	304.1	288.9	283.8	272.4	264.8	261.0	258.5
67.5°	306.6	293.9	282.5	272.4	261.0	255.9	249.6	240.7	235.7	233.1	230.6
70°	262.3	253.4	242.0	235.7	228.1	224.3	215.4	212.9	209.1	205.2	201.4
72.5°	219.2	214.1	209.1	200.2	197.6	195.1	186.2	181.2	176.1	171.0	168.5
75°	183.7	179.9	177.4	169.8	166.0	158.4	152.0	148.2	144.4	140.6	138.1
77.5°	150.8	148.2	140.6	135.6	133.0	126.7	124.2	125.4	122.9	117.8	115.3
80°	117.8	115.3	109.0	109.0	106.4	103.9	101.4	98.8	96.3	92.5	90.0
82.5°	90.0	87.4	84.9	82.4	79.8	78.6	77.3	74.8	72.2	69.7	68.4
85°	63.3	62.1	60.8	59.5	58.3	57.0	55.7	53.2	50.7	49.4	48.1
87.5°	43.1	41.8	40.5	39.3	38.0	36.7	35.5	34.2	31.7	30.4	29.1
90°	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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2988.8	2995.1	2988.8	2974.9	2966.0	2962.2	2969.8	2969.8	2974.9	2981.2	2982.5
5°	2941.9	2926.7	2909.0	2891.2	2882.4	2877.3	2863.4	2865.9	2869.7	2872.2	2874.8
7.5°	2825.4	2805.1	2781.0	2758.2	2749.3	2741.7	2725.3	2725.3	2725.3	2726.5	2734.1
10°	2706.3	2697.4	2687.3	2672.0	2660.6	2656.8	2642.9	2646.7	2644.2	2648.0	2656.8
12.5°	2650.5	2640.4	2631.5	2616.3	2603.6	2598.6	2592.2	2596.0	2594.8	2601.1	2608.7
15°	2599.8	2594.8	2584.6	2573.2	2561.8	2551.7	2528.9	2521.3	2516.2	2509.9	2518.7
17.5°	2516.2	2480.7	2456.7	2438.9	2426.3	2417.4	2411.1	2411.1	2414.9	2418.7	2426.3
20°	2402.2	2392.0	2380.6	2361.6	2349.0	2343.9	2340.1	2340.1	2346.4	2351.5	2365.4
22.5°	2323.6	2322.4	2318.6	2309.7	2303.4	2303.4	2304.6	2307.2	2316.0	2323.6	2337.6
25°	2286.9	2292.0	2289.4	2284.4	2280.6	2281.8	2279.3	2281.8	2290.7	2298.3	2309.7
27.5°	2257.7	2265.3	2262.8	2255.2	2248.9	2251.4	2255.2	2252.7	2260.3	2269.1	2278.0
30°	2218.5	2219.7	2224.8	2215.9	2213.4	2217.2	2218.5	2221.0	2228.6	2234.9	2242.5
32.5°	2174.1	2184.3	2183.0	2174.1	2174.1	2177.9	2179.2	2094.3	1935.9	1667.3	1593.9
35°	2131.0	2142.5	2123.4	1790.2	1239.1	661.4	510.6	492.9	496.7	499.2	501.7
37.5°	1576.1	747.5	476.4	480.2	484.0	487.8	491.6	495.4	499.2	503.0	504.3
40°	473.8	472.6	476.4	481.4	485.3	487.8	492.9	496.7	500.5	504.3	505.5
42.5°	468.8	471.3	475.1	480.2	485.3	490.3	494.1	499.2	501.7	504.3	505.5
45°	466.2	471.3	476.4	480.2	484.0	486.5	489.1	490.3	489.1	489.1	491.6
47.5°	462.4	467.5	468.8	467.5	468.8	467.5	467.5	467.5	463.7	462.4	462.4
50°	448.5	448.5	446.0	440.9	439.6	438.4	435.8	434.6	429.5	428.2	428.2
52.5°	419.4	418.1	414.3	408.0	405.4	402.9	401.6	400.4	395.3	392.8	394.0
55°	385.2	382.6	378.8	371.2	370.0	367.4	366.2	364.9	359.8	362.4	358.6
57.5°	353.5	348.4	343.3	342.1	337.0	335.7	334.5	333.2	329.4	330.7	328.1
60°	315.5	314.2	311.7	306.6	306.6	305.3	305.3	302.8	300.3	299.0	299.0
62.5°	287.6	283.8	281.3	281.3	277.5	277.5	277.5	274.9	272.4	273.7	272.4
65°	257.2	255.9	254.7	252.1	252.1	250.9	250.9	248.3	244.5	245.8	243.3
67.5°	231.9	229.3	226.8	225.5	220.5	217.9	216.7	215.4	210.3	211.6	209.1
70°	200.2	196.4	193.8	191.3	187.5	185.0	185.0	182.4	178.6	179.9	177.4
72.5°	167.2	164.7	162.2	160.9	157.1	155.8	154.6	153.3	149.5	150.8	149.5
75°	139.4	139.4	138.1	136.8	133.0	129.2	126.7	125.4	122.9	124.2	121.6
77.5°	115.3	112.8	110.2	110.2	106.4	103.9	101.4	101.4	101.4	100.1	98.8
80°	90.0	87.4	87.4	86.2	83.6	81.1	79.8	79.8	78.6	78.6	77.3
82.5°	68.4	65.9	64.6	64.6	62.1	60.8	59.5	58.3	58.3	58.3	57.0
85°	48.1	45.6	44.3	44.3	41.8	40.5	40.5	39.3	39.3	38.0	38.0
87.5°	29.1	27.9	26.6	26.6	24.1	22.8	22.8	22.8	21.5	21.5	20.3
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2982.5	2982.5	2973.6	2976.1	2972.3	2977.4	2971.1	2971.1	2978.7	2978.7	2983.7
5°	2876.0	2869.7	2868.4	2865.9	2853.2	2858.3	2852.0	2845.6	2854.5	2854.5	2865.9
7.5°	2730.3	2718.9	2724.0	2716.4	2708.8	2697.4	2701.2	2696.1	2702.5	2711.3	2722.7
10°	2655.6	2645.4	2651.8	2644.2	2648.0	2631.5	2632.8	2634.0	2640.4	2642.9	2653.0
12.5°	2607.4	2604.9	2602.4	2599.8	2602.4	2593.5	2588.4	2589.7	2592.2	2593.5	2601.1
15°	2506.1	2489.6	2494.7	2476.9	2478.2	2479.5	2469.3	2479.5	2478.2	2494.7	2509.9
17.5°	2423.7	2423.7	2414.9	2407.2	2402.2	2400.9	2393.3	2398.4	2393.3	2403.4	2407.2
20°	2366.7	2365.4	2364.2	2360.4	2347.7	2349.0	2352.8	2341.4	2340.1	2338.8	2346.4
22.5°	2340.1	2341.4	2336.3	2336.3	2324.9	2327.4	2328.7	2316.0	2317.3	2313.5	2317.3
25°	2312.2	2314.8	2308.4	2308.4	2305.9	2304.6	2298.3	2300.8	2293.2	2286.9	2293.2
27.5°	2279.3	2284.4	2279.3	2281.8	2276.8	2274.2	2270.4	2267.9	2260.3	2259.0	2262.8
30°	2248.9	2251.4	2250.1	2243.8	2242.5	2234.9	2238.7	2231.1	2223.5	2224.8	2227.3
32.5°	1152.9	1101.0	848.9	766.5	758.9	786.8	932.5	1135.2	1471.0	1796.6	2031.0
35°	503.0	503.0	503.0	501.7	501.7	500.5	499.2	497.9	496.7	495.4	494.1
37.5°	505.5	505.5	505.5	505.5	504.3	503.0	503.0	500.5	499.2	497.9	496.7
40°	506.8	508.1	508.1	508.1	506.8	506.8	505.5	503.0	501.7	499.2	496.7
42.5°	505.5	506.8	506.8	505.5	505.5	504.3	504.3	503.0	501.7	500.5	499.2
45°	489.1	490.3	487.8	487.8	486.5	486.5	486.5	486.5	486.5	487.8	487.8
47.5°	459.9	459.9	458.6	457.4	457.4	456.1	457.4	456.1	458.6	459.9	462.4
50°	425.7	425.7	423.2	421.9	421.9	421.9	421.9	423.2	424.4	427.0	429.5
52.5°	390.2	390.2	389.0	387.7	386.4	386.4	390.2	389.0	390.2	391.5	395.3
55°	356.0	357.3	354.8	354.8	353.5	353.5	353.5	354.8	356.0	357.3	361.1
57.5°	326.9	326.9	324.3	324.3	324.3	323.1	326.9	324.3	325.6	326.9	329.4
60°	297.7	296.5	296.5	295.2	295.2	295.2	297.7	296.5	296.5	297.7	300.3
62.5°	271.1	271.1	269.9	269.9	268.6	268.6	271.1	269.9	269.9	271.1	272.4
65°	240.7	240.7	239.5	238.2	242.0	238.2	242.0	239.5	242.0	243.3	245.8
67.5°	206.5	206.5	206.5	205.2	205.2	207.8	209.1	206.5	207.8	210.3	211.6
70°	176.1	176.1	174.8	174.8	174.8	177.4	178.6	176.1	177.4	178.6	181.2
72.5°	149.5	147.0	147.0	145.7	148.2	148.2	149.5	148.2	149.5	149.5	152.0
75°	122.9	120.4	120.4	120.4	122.9	121.6	122.9	121.6	122.9	122.9	124.2
77.5°	98.8	97.6	96.3	96.3	98.8	98.8	98.8	97.6	98.8	100.1	101.4
80°	77.3	76.0	74.8	74.8	77.3	77.3	77.3	78.6	77.3	78.6	79.8
82.5°	57.0	55.7	54.5	57.0	57.0	57.0	57.0	58.3	57.0	58.3	59.5
85°	38.0	36.7	35.5	38.0	38.0	38.0	38.0	39.3	38.0	39.3	40.5
87.5°	20.3	19.0	19.0	20.3	20.3	20.3	21.5	21.5	21.5	22.8	22.8
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2991.3	2995.1	2993.9	2986.3	2978.7	2969.8	2963.5	2964.7	2977.4	2981.2	2969.8
5°	2865.9	2890.0	2890.0	2906.4	2897.6	2890.0	2895.0	2922.9	2936.8	2958.4	2966.0
7.5°	2736.7	2748.1	2746.8	2763.3	2760.7	2760.7	2764.5	2801.3	2819.0	2836.8	2841.8
10°	2664.4	2675.8	2674.6	2675.8	2672.0	2663.2	2663.2	2679.6	2694.9	2703.7	2706.3
12.5°	2612.5	2618.8	2617.6	2617.6	2615.0	2607.4	2606.2	2620.1	2636.6	2648.0	2649.2
15°	2535.2	2553.0	2556.8	2573.2	2569.4	2559.3	2561.8	2573.2	2583.4	2593.5	2589.7
17.5°	2419.9	2428.8	2430.1	2436.4	2433.9	2433.9	2449.1	2490.9	2518.7	2542.8	2545.3
20°	2354.0	2360.4	2357.8	2371.8	2365.4	2364.2	2368.0	2385.7	2398.4	2409.8	2430.1
22.5°	2322.4	2327.4	2323.6	2324.9	2313.5	2303.4	2300.8	2314.8	2328.7	2343.9	2343.9
25°	2295.8	2299.6	2298.3	2295.8	2286.9	2273.0	2270.4	2273.0	2278.0	2279.3	2270.4
27.5°	2264.1	2266.6	2266.6	2267.9	2256.5	2243.8	2241.3	2238.7	2243.8	2242.5	2228.6
30°	2231.1	2227.3	2228.6	2229.9	2219.7	2208.3	2203.3	2202.0	2207.1	2205.8	2191.9
32.5°	2152.6	2181.7	2184.3	2186.8	2177.9	2167.8	2162.7	2158.9	2161.5	2160.2	2147.5
35°	492.9	501.7	614.5	1391.1	1889.1	2091.8	2113.3	2108.2	2109.5	2109.5	2099.4
37.5°	494.1	492.9	491.6	487.8	484.0	481.4	832.4	1775.0	2056.3	2057.6	2048.7
40°	494.1	492.9	491.6	489.1	484.0	480.2	473.8	468.8	480.2	1056.7	1933.4
42.5°	496.7	494.1	491.6	489.1	484.0	478.9	473.8	467.5	471.3	468.8	462.4
45°	489.1	487.8	487.8	486.5	484.0	478.9	472.6	465.0	461.2	465.0	458.6
47.5°	465.0	466.2	470.0	471.3	471.3	472.6	468.8	463.7	457.4	461.2	453.6
50°	432.0	434.6	435.8	442.2	444.7	449.8	451.0	451.0	449.8	454.8	449.8
52.5°	396.6	399.1	405.4	408.0	410.5	418.1	420.6	424.4	427.0	434.6	439.6
55°	362.4	363.6	366.2	371.2	375.0	381.4	385.2	389.0	395.3	399.1	414.3
57.5°	330.7	331.9	337.0	338.3	340.8	345.9	349.7	354.8	359.8	362.4	380.1
60°	300.3	301.5	305.3	306.6	307.9	312.9	316.7	320.5	324.3	326.9	339.5
62.5°	273.7	273.7	277.5	277.5	278.7	282.5	285.1	287.6	291.4	292.7	299.0
65°	247.1	248.3	250.9	250.9	252.1	254.7	255.9	257.2	261.0	261.0	266.1
67.5°	214.1	215.4	219.2	221.7	223.0	228.1	229.3	230.6	233.1	234.4	236.9
70°	182.4	183.7	187.5	188.8	190.0	193.8	196.4	200.2	204.0	207.8	210.3
72.5°	153.3	154.6	158.4	158.4	162.2	163.4	166.0	167.2	171.0	173.6	177.4
75°	125.4	126.7	130.5	130.5	134.3	135.6	136.8	138.1	140.6	143.2	145.7
77.5°	102.6	102.6	107.7	110.2	112.8	112.8	114.0	114.0	114.0	115.3	117.8
80°	81.1	81.1	84.9	87.4	90.0	90.0	91.2	92.5	93.8	93.8	95.0
82.5°	60.8	60.8	64.6	65.9	68.4	68.4	68.4	69.7	71.0	69.7	72.2
85°	41.8	41.8	44.3	45.6	48.1	48.1	48.1	49.4	50.7	49.4	50.7
87.5°	24.1	25.3	26.6	27.9	29.1	30.4	30.4	30.4	31.7	31.7	32.9
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2957.1	2941.9	2940.6	2922.9	2917.8	2919.1	2905.2	2900.1	2877.3	2872.2	2848.2
5°	2968.5	2976.1	2972.3	2971.1	2974.9	2972.3	2962.2	2957.1	2953.3	2943.2	2922.9
7.5°	2843.1	2848.2	2852.0	2868.4	2882.4	2906.4	2931.8	2948.2	2960.9	2963.5	2947.0
10°	2715.1	2739.2	2755.7	2781.0	2801.3	2815.2	2830.4	2844.4	2881.1	2917.8	2939.4
12.5°	2649.2	2655.6	2654.3	2668.2	2682.2	2718.9	2754.4	2774.7	2802.5	2819.0	2858.3
15°	2593.5	2594.8	2598.6	2608.7	2616.3	2629.0	2645.4	2675.8	2731.6	2756.9	2778.5
17.5°	2542.8	2542.8	2545.3	2554.2	2564.4	2575.8	2585.9	2598.6	2626.4	2668.2	2721.5
20°	2461.7	2497.2	2501.0	2499.7	2504.8	2526.3	2528.9	2551.7	2565.6	2582.1	2634.0
22.5°	2341.4	2362.9	2393.3	2440.2	2457.9	2468.1	2475.7	2485.8	2507.3	2526.3	2547.9
25°	2275.5	2289.4	2298.3	2312.2	2349.0	2408.5	2419.9	2431.3	2445.3	2459.2	2485.8
27.5°	2217.2	2215.9	2222.3	2234.9	2245.1	2276.8	2332.5	2376.8	2379.4	2399.6	2422.5
30°	2175.4	2167.8	2158.9	2156.4	2170.3	2186.8	2203.3	2273.0	2321.1	2331.2	2355.3
32.5°	2136.1	2123.4	2110.8	2100.6	2091.8	2105.7	2115.8	2146.3	2208.3	2266.6	2279.3
35°	2088.0	2075.3	2060.1	2048.7	2034.8	2033.5	2032.2	2061.4	2081.6	2151.3	2212.1
37.5°	2038.6	2024.6	2012.0	1999.3	1985.3	1975.2	1968.9	1976.5	1995.5	2025.9	2127.2
40°	1986.6	1970.1	1957.5	1947.3	1928.3	1920.7	1908.1	1903.0	1904.3	1930.9	1984.1
42.5°	1187.2	1892.9	1899.2	1887.8	1871.3	1861.2	1847.2	1840.9	1828.2	1840.9	1871.3
45°	457.4	462.4	1384.8	1829.5	1809.2	1796.6	1783.9	1777.6	1763.6	1753.5	1781.4
47.5°	448.5	453.6	443.4	628.4	1726.9	1730.7	1715.5	1709.1	1695.2	1687.6	1680.0
50°	442.2	446.0	438.4	440.9	432.0	1582.4	1645.8	1638.2	1623.0	1614.1	1598.9
52.5°	435.8	435.8	430.8	424.4	421.9	423.2	1331.6	1566.0	1548.2	1539.4	1519.1
55°	415.6	418.1	423.2	413.0	410.5	409.2	405.4	1268.2	1465.9	1455.8	1438.0
57.5°	385.2	390.2	404.2	401.6	401.6	391.5	389.0	389.0	1177.0	1370.9	1353.1
60°	349.7	354.8	370.0	375.0	378.8	376.3	373.8	372.5	367.4	1240.4	1263.2
62.5°	312.9	318.0	323.1	339.5	344.6	351.0	358.6	354.8	349.7	349.7	1168.1
65°	273.7	281.3	283.8	299.0	305.3	316.7	323.1	331.9	329.4	328.1	334.5
67.5°	239.5	248.3	249.6	255.9	267.3	272.4	280.0	296.5	304.1	306.6	309.1
70°	210.3	215.4	219.2	221.7	229.3	230.6	244.5	255.9	267.3	280.0	283.8
72.5°	181.2	185.0	192.6	190.0	192.6	197.6	205.2	212.9	224.3	242.0	253.4
75°	148.2	150.8	155.8	158.4	163.4	167.2	172.3	178.6	188.8	197.6	212.9
77.5°	119.1	120.4	124.2	125.4	130.5	134.3	143.2	147.0	153.3	159.6	168.5
80°	96.3	96.3	97.6	97.6	101.4	105.2	111.5	115.3	122.9	128.0	128.0
82.5°	73.5	73.5	77.3	77.3	79.8	79.8	83.6	83.6	87.4	90.0	92.5
85°	51.9	53.2	55.7	54.5	57.0	55.7	58.3	60.8	62.1	60.8	59.5
87.5°	34.2	34.2	36.7	35.5	36.7	36.7	39.3	39.3	40.5	40.5	39.3
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2839.3	2820.3	2808.9	2794.9	2791.1	2787.3	2792.4	2792.4	2784.8	2778.5	2767.1
5°	2905.2	2884.9	2863.4	2840.6	2819.0	2796.2	2787.3	2786.1	2772.1	2764.5	2760.7
7.5°	2939.4	2929.2	2905.2	2873.5	2840.6	2800.0	2782.3	2772.1	2758.2	2755.7	2755.7
10°	2943.2	2931.8	2919.1	2896.3	2858.3	2805.1	2770.9	2750.6	2737.9	2746.8	2763.3
12.5°	2906.4	2928.0	2916.6	2901.4	2871.0	2806.3	2756.9	2726.5	2722.7	2745.5	2788.6
15°	2812.7	2876.0	2907.7	2892.5	2868.4	2803.8	2734.1	2698.7	2698.7	2745.5	2801.3
17.5°	2741.7	2791.1	2868.4	2881.1	2853.2	2798.7	2712.6	2670.8	2682.2	2750.6	2810.1
20°	2683.4	2713.9	2788.6	2859.6	2833.0	2787.3	2680.9	2637.8	2660.6	2743.0	2822.8
22.5°	2592.2	2653.0	2698.7	2803.8	2812.7	2765.8	2649.2	2597.3	2642.9	2743.0	2816.5
25°	2503.5	2577.0	2625.2	2727.8	2782.3	2739.2	2620.1	2554.2	2623.9	2739.2	2811.4
27.5°	2441.5	2475.7	2563.1	2636.6	2736.7	2703.7	2580.8	2507.3	2599.8	2718.9	2782.3
30°	2375.6	2398.4	2484.5	2554.2	2675.8	2663.2	2540.3	2455.4	2569.4	2699.9	2706.3
32.5°	2303.4	2328.7	2373.0	2474.4	2591.0	2625.2	2494.7	2403.4	2536.5	2670.8	2617.6
35°	2229.9	2248.9	2284.4	2393.3	2492.1	2568.2	2438.9	2343.9	2513.7	2626.4	2532.7
37.5°	2156.4	2176.7	2207.1	2298.3	2388.2	2514.9	2390.8	2284.4	2471.9	2547.9	2444.0
40°	2086.7	2098.1	2129.8	2186.8	2302.1	2460.5	2336.3	2222.3	2428.8	2447.8	2323.6
42.5°	1958.7	2015.8	2044.9	2090.5	2204.5	2385.7	2273.0	2156.4	2380.6	2347.7	2203.3
45°	1820.6	1944.8	1957.5	2003.1	2118.4	2305.9	2213.4	2091.8	2335.0	2261.5	2089.2
47.5°	1707.9	1797.8	1871.3	1909.3	2015.8	2212.1	2157.7	2037.3	2266.6	2152.6	1977.7
50°	1607.8	1655.9	1789.0	1816.8	1892.9	2099.4	2091.8	1973.9	2171.6	2015.8	1868.8
52.5°	1510.2	1544.4	1664.8	1724.4	1786.4	1977.7	2013.2	1911.9	2067.7	1878.9	1758.6
55°	1425.3	1436.7	1502.6	1628.1	1683.8	1854.8	1927.1	1839.6	1935.9	1748.4	1652.1
57.5°	1337.9	1327.8	1375.9	1536.8	1577.4	1729.4	1835.8	1766.2	1829.5	1615.4	1541.9
60°	1246.7	1232.8	1253.0	1359.5	1464.6	1605.3	1728.2	1685.1	1700.3	1483.6	1419.0
62.5°	1151.7	1137.7	1131.4	1198.6	1354.4	1477.3	1619.2	1595.1	1541.9	1363.3	1267.0
65°	1052.9	1038.9	1028.8	1055.4	1232.8	1311.3	1497.6	1491.2	1368.3	1236.6	1066.8
67.5°	320.5	945.2	923.6	922.4	1038.9	1160.5	1365.8	1355.7	1193.5	1101.0	918.6
70°	288.9	766.5	814.7	803.3	853.9	1007.2	1215.0	1207.4	1023.7	883.1	812.1
72.5°	264.8	271.1	719.6	707.0	718.4	856.5	1057.9	1037.7	867.9	696.8	701.9
75°	226.8	238.2	248.3	596.7	581.5	709.5	886.9	855.2	715.8	575.2	586.6
77.5°	185.0	198.9	206.5	434.6	470.0	505.5	708.2	666.4	492.9	459.9	219.2
80°	138.1	149.5	162.2	173.6	357.3	353.5	525.8	484.0	343.3	286.3	171.0
82.5°	101.4	105.2	112.8	125.4	141.9	236.9	338.3	297.7	238.2	130.5	117.8
85°	63.3	68.4	72.2	76.0	86.2	141.9	167.2	133.0	100.1	79.8	74.8
87.5°	40.5	40.5	39.3	40.5	41.8	50.7	57.0	54.5	43.1	40.5	40.5
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2754.4	2736.7	2736.7	2731.6	2735.4	2735.4	2734.1	2735.4	2744.3	2749.3	2758.2
5°	2753.1	2748.1	2759.5	2773.4	2789.9	2810.1	2815.2	2833.0	2849.4	2871.0	2893.8
7.5°	2769.6	2787.3	2808.9	2831.7	2864.6	2888.7	2910.2	2931.8	2947.0	2967.3	2979.9
10°	2793.7	2829.2	2865.9	2895.0	2930.5	2950.8	2964.7	2967.3	2945.7	2911.5	2883.6
12.5°	2827.9	2869.7	2903.9	2931.8	2948.2	2940.6	2900.1	2858.3	2834.2	2798.7	2749.3
15°	2857.0	2895.0	2930.5	2919.1	2874.8	2833.0	2801.3	2751.9	2703.7	2670.8	2649.2
17.5°	2869.7	2906.4	2893.8	2834.2	2792.4	2744.3	2679.6	2641.6	2610.0	2584.6	2572.0
20°	2877.3	2871.0	2802.5	2759.5	2678.4	2634.0	2592.2	2556.8	2532.7	2520.0	2517.5
22.5°	2857.0	2779.7	2721.5	2644.2	2584.6	2547.9	2514.9	2485.8	2469.3	2459.2	2452.9
25°	2789.9	2699.9	2613.8	2553.0	2502.3	2470.6	2445.3	2421.2	2400.9	2395.8	2383.2
27.5°	2696.1	2622.6	2508.6	2461.7	2417.4	2402.2	2374.3	2350.2	2332.5	2317.3	2276.8
30°	2618.8	2502.3	2419.9	2376.8	2350.2	2332.5	2300.8	2275.5	2245.1	2189.3	2166.5
32.5°	2523.8	2408.5	2330.0	2305.9	2273.0	2257.7	2222.3	2166.5	2119.6	2096.8	2095.6
35°	2400.9	2305.9	2248.9	2227.3	2200.7	2175.4	2101.9	2051.2	2028.4	2031.0	2050.0
37.5°	2298.3	2213.4	2176.7	2146.3	2115.8	2051.2	1989.1	1965.1	1971.4	1984.1	1992.9
40°	2194.4	2129.8	2088.0	2063.9	1995.5	1932.1	1899.2	1908.1	1919.5	1928.3	1939.7
42.5°	2093.0	2047.4	2005.6	1958.7	1865.0	1830.8	1838.4	1849.8	1859.9	1872.6	1884.0
45°	1996.8	1956.2	1908.1	1801.6	1754.8	1763.6	1775.0	1783.9	1799.1	1808.0	1819.4
47.5°	1905.5	1862.5	1777.6	1683.8	1678.7	1696.5	1706.6	1718.0	1729.4	1706.6	941.4
50°	1802.9	1758.6	1629.3	1593.9	1605.3	1621.7	1634.4	1645.8	1465.9	582.8	448.5
52.5°	1701.5	1588.8	1506.4	1516.6	1528.0	1547.0	1555.8	1155.5	459.9	438.4	439.6
55°	1588.8	1444.3	1420.3	1432.9	1443.1	1462.1	969.2	424.4	421.9	420.6	430.8
57.5°	1411.4	1324.0	1334.1	1346.8	1356.9	957.8	413.0	410.5	411.8	413.0	414.3
60°	1253.0	1234.0	1245.4	1256.8	889.4	399.1	391.5	392.8	397.8	394.0	383.9
62.5°	1127.6	1142.8	1154.2	1011.0	378.8	375.0	378.8	375.0	366.2	359.8	347.2
65°	1031.3	1046.5	1055.4	356.0	354.8	359.8	356.0	343.3	329.4	311.7	307.9
67.5°	930.0	945.2	338.3	329.4	334.5	328.1	312.9	297.7	287.6	272.4	266.1
70°	824.8	353.5	306.6	305.3	296.5	286.3	269.9	254.7	242.0	235.7	229.3
72.5°	595.5	280.0	276.2	266.1	250.9	236.9	223.0	214.1	207.8	204.0	200.2
75°	248.3	243.3	231.9	214.1	198.9	192.6	182.4	176.1	173.6	166.0	163.4
77.5°	207.8	197.6	181.2	168.5	159.6	155.8	148.2	140.6	136.8	135.6	130.5
80°	159.6	145.7	138.1	131.8	129.2	120.4	111.5	107.7	105.2	103.9	100.1
82.5°	109.0	103.9	98.8	90.0	90.0	86.2	82.4	79.8	77.3	77.3	74.8
85°	71.0	67.1	65.9	62.1	62.1	59.5	58.3	57.0	55.7	54.5	53.2
87.5°	40.5	40.5	41.8	40.5	40.5	39.3	38.0	36.7	35.5	35.5	32.9
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2769.6	2782.3	2784.8	2827.9	2852.0	2850.7	2843.1	2865.9	2852.0	2844.4	2852.0
5°	2916.6	2931.8	2944.4	2991.3	3007.8	3015.4	3014.1	3026.8	3016.7	3007.8	3007.8
7.5°	2988.8	2993.9	2998.9	2987.5	2979.9	2967.3	2948.2	2920.4	2906.4	2891.2	2872.2
10°	2869.7	2853.2	2859.6	2836.8	2817.7	2803.8	2786.1	2763.3	2744.3	2730.3	2708.8
12.5°	2724.0	2722.7	2725.3	2729.1	2710.1	2698.7	2684.7	2668.2	2654.3	2639.1	2621.4
15°	2635.3	2636.6	2646.7	2642.9	2636.6	2630.2	2615.0	2610.0	2597.3	2580.8	2570.7
17.5°	2572.0	2578.3	2588.4	2583.4	2573.2	2566.9	2555.5	2544.1	2532.7	2520.0	2504.8
20°	2516.2	2522.5	2528.9	2522.5	2503.5	2494.7	2479.5	2444.0	2418.7	2393.3	2370.5
22.5°	2455.4	2459.2	2454.1	2433.9	2385.7	2362.9	2345.2	2335.0	2313.5	2299.6	2285.6
25°	2379.4	2357.8	2324.9	2302.1	2283.1	2273.0	2265.3	2264.1	2261.5	2259.0	2252.7
27.5°	2255.2	2247.6	2229.9	2221.0	2222.3	2226.1	2227.3	2231.1	2227.3	2222.3	2217.2
30°	2162.7	2166.5	2167.8	2170.3	2176.7	2180.5	2181.7	2186.8	2184.3	2180.5	2177.9
32.5°	2104.4	2113.3	2118.4	2126.0	2129.8	2136.1	2136.1	2143.7	2136.1	2134.9	2132.3
35°	2056.3	2063.9	2066.4	2077.8	2081.6	2088.0	2088.0	2094.3	2088.0	2023.4	1597.7
37.5°	2008.2	2015.8	2020.8	2031.0	2032.2	2036.0	1878.9	1374.7	886.9	686.7	524.5
40°	1951.1	1960.0	1965.1	1968.9	1383.5	878.0	604.3	491.6	491.6	495.4	499.2
42.5°	1890.3	1896.7	1321.5	769.1	478.9	477.6	481.4	485.3	489.1	494.1	499.2
45°	1486.2	750.0	476.4	465.0	468.8	473.8	478.9	484.0	490.3	495.4	497.9
47.5°	487.8	457.4	463.7	458.6	465.0	471.3	476.4	481.4	482.7	484.0	482.7
50°	451.0	451.0	454.8	454.8	459.9	462.4	462.4	462.4	457.4	456.1	452.3
52.5°	435.8	446.0	440.9	443.4	440.9	437.1	433.3	429.5	421.9	419.4	414.3
55°	428.2	432.0	419.4	415.6	410.5	400.4	395.3	390.2	383.9	381.4	375.0
57.5°	410.5	401.6	387.7	381.4	372.5	362.4	357.3	353.5	347.2	344.6	340.8
60°	377.6	359.8	351.0	343.3	333.2	324.3	320.5	318.0	312.9	311.7	307.9
62.5°	337.0	321.8	314.2	304.1	296.5	291.4	287.6	286.3	281.3	281.3	278.7
65°	292.7	285.1	278.7	268.6	264.8	259.7	258.5	257.2	254.7	253.4	250.9
67.5°	257.2	252.1	243.3	238.2	235.7	231.9	229.3	226.8	221.7	219.2	215.4
70°	225.5	221.7	212.9	209.1	204.0	197.6	193.8	191.3	187.5	185.0	181.2
72.5°	195.1	183.7	177.4	173.6	169.8	163.4	162.2	159.6	155.8	154.6	150.8
75°	157.1	148.2	144.4	141.9	138.1	134.3	134.3	134.3	130.5	129.2	128.0
77.5°	125.4	120.4	117.8	115.3	114.0	111.5	107.7	106.4	102.6	102.6	101.4
80°	96.3	93.8	91.2	90.0	88.7	86.2	83.6	82.4	78.6	78.6	77.3
82.5°	71.0	69.7	68.4	67.1	65.9	64.6	60.8	59.5	57.0	57.0	55.7
85°	50.7	49.4	46.9	45.6	45.6	44.3	40.5	39.3	36.7	36.7	36.7
87.5°	31.7	30.4	29.1	27.9	26.6	25.3	22.8	21.5	21.5	19.0	17.7
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2836.8	2858.3	2855.8	2871.0	2874.8	2882.4	2884.9	2886.2	2867.2	2882.4	2883.6
5°	3004.0	3007.8	3010.3	3016.7	3023.0	3024.3	3017.9	3010.3	3012.9	3007.8	2995.1
7.5°	2869.7	2850.7	2846.9	2841.8	2839.3	2836.8	2825.4	2835.5	2824.1	2819.0	2801.3
10°	2705.0	2687.3	2686.0	2686.0	2689.8	2688.5	2686.0	2680.9	2691.1	2684.7	2680.9
12.5°	2618.8	2612.5	2616.3	2613.8	2623.9	2626.4	2623.9	2623.9	2621.4	2616.3	2618.8
15°	2566.9	2561.8	2565.6	2561.8	2569.4	2570.7	2564.4	2568.2	2561.8	2555.5	2553.0
17.5°	2498.5	2487.1	2478.2	2465.5	2466.8	2464.3	2456.7	2456.7	2450.3	2433.9	2435.1
20°	2366.7	2355.3	2350.2	2350.2	2356.6	2359.1	2357.8	2360.4	2354.0	2351.5	2341.4
22.5°	2284.4	2283.1	2285.6	2292.0	2302.1	2316.0	2317.3	2317.3	2317.3	2316.0	2303.4
25°	2255.2	2255.2	2257.7	2266.6	2274.2	2284.4	2286.9	2289.4	2286.9	2286.9	2275.5
27.5°	2222.3	2219.7	2224.8	2233.7	2242.5	2250.1	2256.5	2257.7	2253.9	2253.9	2257.7
30°	2181.7	2180.5	2186.8	2195.7	2203.3	2210.9	2217.2	2222.3	2217.2	2217.2	2213.4
32.5°	2139.9	2139.9	2142.5	2089.2	1937.2	1744.6	1748.4	1636.9	1559.6	1462.1	1591.3
35°	1335.4	971.8	834.9	707.0	617.0	558.7	557.5	538.5	529.6	523.3	522.0
37.5°	504.3	506.8	511.9	514.4	518.2	520.7	522.0	522.0	522.0	522.0	520.7
40°	503.0	508.1	511.9	515.7	519.5	522.0	522.0	523.3	524.5	524.5	524.5
42.5°	504.3	509.3	514.4	518.2	520.7	522.0	523.3	524.5	524.5	524.5	524.5
45°	503.0	505.5	505.5	506.8	506.8	506.8	508.1	508.1	506.8	505.5	508.1
47.5°	484.0	484.0	480.2	478.9	477.6	475.1	476.4	475.1	473.8	472.6	475.1
50°	451.0	446.0	443.4	440.9	439.6	437.1	438.4	437.1	435.8	433.3	437.1
52.5°	411.8	410.5	405.4	402.9	401.6	402.9	400.4	399.1	397.8	396.6	397.8
55°	373.8	368.7	367.4	364.9	363.6	364.9	363.6	362.4	361.1	359.8	361.1
57.5°	339.5	335.7	334.5	331.9	331.9	331.9	331.9	330.7	329.4	328.1	329.4
60°	306.6	304.1	302.8	302.8	301.5	301.5	301.5	300.3	299.0	299.0	300.3
62.5°	278.7	278.7	274.9	273.7	273.7	274.9	273.7	272.4	271.1	269.9	272.4
65°	249.6	244.5	243.3	240.7	238.2	239.5	238.2	236.9	235.7	234.4	236.9
67.5°	214.1	212.9	207.8	205.2	204.0	205.2	204.0	202.7	201.4	200.2	202.7
70°	179.9	179.9	174.8	173.6	172.3	172.3	171.0	171.0	169.8	168.5	171.0
72.5°	149.5	149.5	148.2	145.7	144.4	143.2	141.9	140.6	140.6	141.9	141.9
75°	124.2	121.6	116.6	117.8	116.6	115.3	115.3	114.0	112.8	115.3	114.0
77.5°	97.6	96.3	92.5	93.8	92.5	91.2	91.2	90.0	88.7	90.0	90.0
80°	73.5	73.5	72.2	71.0	71.0	69.7	68.4	68.4	67.1	68.4	68.4
82.5°	53.2	53.2	51.9	50.7	49.4	49.4	48.1	48.1	48.1	48.1	48.1
85°	34.2	32.9	32.9	30.4	30.4	30.4	29.1	29.1	29.1	29.1	29.1
87.5°	16.5	16.5	15.2	15.2	13.9	12.7	12.7	11.4	11.4	12.7	12.7
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2860.8	2877.3	2863.4	2869.7	2871.0	2892.5	2891.2	2896.3	2887.4	2877.3	2863.4
5°	3006.5	2998.9	2988.8	3012.9	3000.2	3015.4	3020.5	3030.6	3030.6	3029.3	3017.9
7.5°	2820.3	2803.8	2816.5	2825.4	2829.2	2819.0	2839.3	2862.1	2881.1	2892.5	2893.8
10°	2674.6	2679.6	2678.4	2682.2	2691.1	2689.8	2702.5	2715.1	2720.2	2727.8	2730.3
12.5°	2606.2	2604.9	2607.4	2616.3	2621.4	2620.1	2632.8	2640.4	2642.9	2644.2	2642.9
15°	2551.7	2542.8	2549.2	2550.4	2554.2	2554.2	2569.4	2580.8	2585.9	2588.4	2585.9
17.5°	2449.1	2427.5	2447.8	2447.8	2461.7	2459.2	2483.3	2502.3	2512.4	2520.0	2520.0
20°	2347.7	2337.6	2345.2	2342.6	2352.8	2351.5	2366.7	2379.4	2388.2	2394.6	2402.2
22.5°	2307.2	2309.7	2298.3	2299.6	2299.6	2298.3	2305.9	2312.2	2314.8	2318.6	2316.0
25°	2280.6	2283.1	2279.3	2273.0	2270.4	2273.0	2276.8	2284.4	2285.6	2283.1	2274.2
27.5°	2253.9	2246.3	2252.7	2241.3	2238.7	2243.8	2248.9	2250.1	2251.4	2251.4	2243.8
30°	2213.4	2207.1	2213.4	2208.3	2203.3	2208.3	2212.1	2212.1	2214.7	2215.9	2207.1
32.5°	1547.0	1559.6	1764.9	1889.1	2063.9	2152.6	2169.1	2169.1	2171.6	2171.6	2164.0
35°	527.1	528.3	571.4	619.5	722.2	848.9	1014.8	1101.0	1392.4	1740.8	2077.8
37.5°	520.7	519.5	518.2	516.9	515.7	514.4	511.9	510.6	518.2	614.5	833.7
40°	523.3	522.0	519.5	518.2	516.9	514.4	513.1	510.6	508.1	505.5	503.0
42.5°	523.3	522.0	520.7	519.5	518.2	516.9	514.4	511.9	509.3	505.5	501.7
45°	505.5	505.5	506.8	506.8	508.1	508.1	508.1	506.8	506.8	505.5	500.5
47.5°	472.6	472.6	476.4	476.4	478.9	481.4	481.4	484.0	487.8	490.3	491.6
50°	434.6	434.6	438.4	439.6	442.2	446.0	449.8	451.0	454.8	459.9	465.0
52.5°	396.6	396.6	400.4	400.4	402.9	406.7	410.5	411.8	416.8	421.9	428.2
55°	361.1	361.1	363.6	364.9	366.2	368.7	372.5	372.5	377.6	381.4	387.7
57.5°	329.4	331.9	331.9	331.9	333.2	335.7	338.3	338.3	342.1	345.9	351.0
60°	299.0	301.5	301.5	301.5	302.8	304.1	306.6	306.6	309.1	311.7	316.7
62.5°	271.1	273.7	273.7	274.9	274.9	276.2	278.7	277.5	280.0	281.3	285.1
65°	235.7	238.2	239.5	240.7	242.0	244.5	248.3	247.1	250.9	253.4	257.2
67.5°	201.4	204.0	204.0	205.2	206.5	209.1	211.6	211.6	215.4	217.9	223.0
70°	169.8	172.3	172.3	173.6	174.8	177.4	179.9	178.6	182.4	185.0	188.8
72.5°	140.6	143.2	143.2	144.4	144.4	147.0	149.5	152.0	152.0	154.6	157.1
75°	114.0	115.3	116.6	116.6	117.8	119.1	121.6	124.2	125.4	126.7	129.2
77.5°	90.0	91.2	92.5	92.5	93.8	95.0	96.3	101.4	103.9	105.2	105.2
80°	68.4	69.7	69.7	69.7	71.0	72.2	74.8	74.8	79.8	79.8	81.1
82.5°	48.1	49.4	49.4	49.4	50.7	53.2	54.5	55.7	58.3	59.5	59.5
85°	29.1	30.4	30.4	30.4	31.7	32.9	35.5	36.7	38.0	38.0	39.3
87.5°	11.4	12.7	13.9	13.9	15.2	16.5	17.7	19.0	20.3	20.3	21.5
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2848.2	2857.0	2848.2	2853.2	2859.6	2848.2	2821.5	2811.4	2807.6	2792.4	2782.3
5°	3006.5	3006.5	3002.7	3012.9	3011.6	2993.9	2966.0	2953.3	2940.6	2924.2	2911.5
7.5°	2893.8	2903.9	2910.2	2949.5	2974.9	2977.4	2995.1	2998.9	3004.0	2998.9	2991.3
10°	2731.6	2727.8	2745.5	2782.3	2803.8	2815.2	2849.4	2865.9	2879.8	2907.7	2936.8
12.5°	2640.4	2645.4	2653.0	2679.6	2699.9	2694.9	2708.8	2720.2	2736.7	2764.5	2806.3
15°	2579.6	2584.6	2592.2	2612.5	2625.2	2618.8	2626.4	2634.0	2645.4	2659.4	2684.7
17.5°	2513.7	2522.5	2531.4	2553.0	2564.4	2563.1	2569.4	2572.0	2575.8	2584.6	2602.4
20°	2411.1	2438.9	2456.7	2485.8	2502.3	2499.7	2511.1	2514.9	2520.0	2528.9	2536.5
22.5°	2317.3	2324.9	2333.8	2365.4	2393.3	2427.5	2435.1	2445.3	2457.9	2466.8	2474.4
25°	2264.1	2259.0	2262.8	2284.4	2299.6	2302.1	2313.5	2346.4	2380.6	2395.8	2413.6
27.5°	2232.4	2227.3	2226.1	2236.2	2238.7	2232.4	2229.9	2240.0	2265.3	2290.7	2343.9
30°	2198.2	2191.9	2186.8	2195.7	2199.5	2190.6	2174.1	2165.3	2180.5	2186.8	2208.3
32.5°	2157.7	2151.3	2148.8	2153.9	2156.4	2148.8	2131.0	2120.9	2118.4	2113.3	2118.4
35°	2112.0	2105.7	2101.9	2103.2	2108.2	2101.9	2086.7	2074.0	2067.7	2053.8	2043.6
37.5°	1088.3	1541.9	2001.8	2050.0	2055.0	2053.8	2038.6	2024.6	2018.3	2001.8	1996.8
40°	497.9	556.2	834.9	1090.9	1573.6	1999.3	1985.3	1971.4	1960.0	1954.9	1935.9
42.5°	496.7	497.9	499.2	492.9	610.7	1040.2	1535.6	1916.9	1909.3	1896.7	1882.7
45°	496.7	490.3	495.4	487.8	490.3	489.1	609.4	983.2	1749.7	1828.2	1821.9
47.5°	491.6	487.8	492.9	486.5	478.9	482.7	477.6	484.0	755.1	1280.9	1754.8
50°	468.8	471.3	480.2	478.9	472.6	477.6	468.8	476.4	470.0	515.7	993.3
52.5°	434.6	439.6	448.5	456.1	458.6	465.0	462.4	465.0	459.9	461.2	462.4
55°	394.0	400.4	408.0	419.4	424.4	434.6	442.2	446.0	452.3	451.0	440.9
57.5°	356.0	362.4	368.7	380.1	391.5	396.6	410.5	418.1	434.6	430.8	428.2
60°	320.5	325.6	331.9	334.5	348.4	357.3	370.0	377.6	399.1	404.2	411.8
62.5°	288.9	291.4	296.5	300.3	309.1	318.0	324.3	337.0	348.4	364.9	376.3
65°	259.7	262.3	266.1	268.6	269.9	282.5	286.3	300.3	304.1	321.8	331.9
67.5°	226.8	231.9	236.9	239.5	242.0	249.6	252.1	258.5	267.3	274.9	287.6
70°	192.6	196.4	201.4	205.2	210.3	215.4	223.0	226.8	233.1	238.2	248.3
72.5°	160.9	164.7	167.2	171.0	174.8	178.6	185.0	193.8	198.9	207.8	210.3
75°	130.5	134.3	136.8	139.4	143.2	145.7	148.2	157.1	162.2	169.8	177.4
77.5°	107.7	107.7	110.2	117.8	116.6	116.6	119.1	124.2	128.0	133.0	140.6
80°	83.6	84.9	86.2	92.5	93.8	95.0	93.8	97.6	101.4	102.6	107.7
82.5°	62.1	63.3	63.3	67.1	71.0	71.0	71.0	72.2	76.0	77.3	79.8
85°	41.8	43.1	44.3	45.6	48.1	49.4	50.7	50.7	53.2	54.5	55.7
87.5°	22.8	25.3	26.6	27.9	29.1	30.4	31.7	32.9	34.2	35.5	36.7
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5	2764.5
2.5°	2778.5	2772.1	2768.3	2758.2	2755.7	2739.2	2741.7	2739.2	2739.2	2743.0	2755.7
5°	2897.6	2867.2	2859.6	2838.0	2820.3	2789.9	2770.9	2760.7	2745.5	2739.2	2748.1
7.5°	2978.7	2955.8	2936.8	2917.8	2892.5	2857.0	2830.4	2800.0	2774.7	2750.6	2744.3
10°	2964.7	2990.1	2990.1	2978.7	2954.6	2919.1	2887.4	2849.4	2805.1	2767.1	2744.3
12.5°	2846.9	2891.2	2926.7	2953.3	2977.4	2953.3	2921.6	2891.2	2841.8	2786.1	2744.3
15°	2717.7	2763.3	2807.6	2863.4	2921.6	2945.7	2944.4	2909.0	2864.6	2806.3	2748.1
17.5°	2626.4	2658.1	2682.2	2743.0	2813.9	2876.0	2917.8	2920.4	2877.3	2825.4	2749.3
20°	2558.0	2580.8	2601.1	2635.3	2697.4	2773.4	2850.7	2893.8	2886.2	2829.2	2753.1
22.5°	2495.9	2512.4	2528.9	2554.2	2603.6	2653.0	2743.0	2831.7	2869.7	2822.8	2749.3
25°	2433.9	2451.6	2464.3	2482.0	2521.3	2561.8	2625.2	2735.4	2820.3	2817.7	2741.7
27.5°	2360.4	2384.4	2399.6	2423.7	2450.3	2480.7	2523.8	2627.7	2749.3	2792.4	2721.5
30°	2271.7	2307.2	2330.0	2356.6	2379.4	2406.0	2440.2	2503.5	2654.3	2743.0	2699.9
32.5°	2143.7	2207.1	2257.7	2283.1	2308.4	2331.2	2361.6	2414.9	2537.7	2675.8	2675.8
35°	2052.5	2081.6	2127.2	2200.7	2232.4	2255.2	2283.1	2324.9	2403.4	2596.0	2636.6
37.5°	1981.5	1992.9	2015.8	2088.0	2147.5	2184.3	2212.1	2238.7	2316.0	2487.1	2585.9
40°	1928.3	1924.5	1922.0	1956.2	2041.1	2099.4	2131.0	2157.7	2217.2	2356.6	2518.7
42.5°	1866.3	1862.5	1849.8	1858.6	1900.5	1998.0	2046.2	2075.3	2124.7	2219.7	2445.3
45°	1801.6	1795.3	1790.2	1781.4	1796.6	1851.0	1949.9	1992.9	2020.8	2105.7	2352.8
47.5°	1735.8	1726.9	1720.5	1712.9	1704.1	1729.4	1823.2	1900.5	1948.6	2001.8	2241.3
50°	1642.0	1653.4	1645.8	1636.9	1629.3	1624.3	1663.5	1790.2	1849.8	1892.9	2105.7
52.5°	774.1	1505.2	1568.5	1559.6	1549.5	1540.6	1549.5	1645.8	1753.5	1787.7	1942.3
55°	440.9	670.2	1394.9	1474.8	1465.9	1453.2	1445.6	1478.6	1639.5	1685.1	1792.8
57.5°	424.4	425.7	615.7	1329.1	1378.5	1367.1	1358.2	1365.8	1502.6	1579.9	1662.3
60°	410.5	410.5	410.5	587.9	1270.8	1274.6	1263.2	1250.5	1310.1	1462.1	1530.5
62.5°	380.1	387.7	391.5	391.5	580.3	1177.0	1165.6	1161.8	1164.3	1320.2	1398.7
65°	340.8	358.6	366.2	371.2	371.2	609.4	1065.5	1059.2	1050.3	1109.9	1265.7
67.5°	297.7	315.5	331.9	342.1	343.3	354.8	636.0	954.0	941.4	942.6	1123.8
70°	253.4	268.6	286.3	301.5	315.5	321.8	331.9	791.9	833.7	815.9	962.9
72.5°	219.2	225.5	238.2	253.4	269.9	285.1	293.9	315.5	723.4	704.4	732.3
75°	182.4	187.5	196.4	206.5	219.2	236.9	252.1	267.3	383.9	590.4	586.6
77.5°	141.9	150.8	160.9	167.2	173.6	186.2	206.5	221.7	236.9	399.1	470.0
80°	109.0	115.3	120.4	126.7	134.3	143.2	150.8	168.5	186.2	200.2	359.8
82.5°	81.1	84.9	88.7	91.2	93.8	98.8	112.8	119.1	130.5	143.2	169.8
85°	57.0	59.5	62.1	63.3	64.6	65.9	71.0	72.2	83.6	86.2	102.6
87.5°	36.7	38.0	40.5	41.8	41.8	43.1	44.3	44.3	44.3	41.8	50.7
90°	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-LD5-64SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2764.5	2764.5
2.5°	2765.8	2786.1
5°	2762.0	2788.6
7.5°	2751.9	2777.2
10°	2736.7	2767.1
12.5°	2720.2	2749.3
15°	2706.3	2727.8
17.5°	2691.1	2703.7
20°	2670.8	2680.9
22.5°	2650.5	2645.4
25°	2627.7	2616.3
27.5°	2598.6	2577.0
30°	2572.0	2533.9
32.5°	2546.6	2484.5
35°	2512.4	2433.9
37.5°	2476.9	2381.9
40°	2435.1	2322.4
42.5°	2390.8	2262.8
45°	2335.0	2205.8
47.5°	2285.6	2137.4
50°	2217.2	2063.9
52.5°	2133.6	1995.5
55°	2034.8	1911.9
57.5°	1928.3	1824.4
60°	1814.3	1724.4
62.5°	1676.2	1620.5
65°	1514.0	1501.4
67.5°	1302.4	1369.6
70°	1068.1	1218.8
72.5°	893.2	1059.2
75°	732.3	880.5
77.5°	580.3	690.5
80°	362.4	505.5
82.5°	243.3	331.9
85°	147.0	158.4
87.5°	57.0	58.3
90°	0.0	0.0

(END OF REPORT)