

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-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 (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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

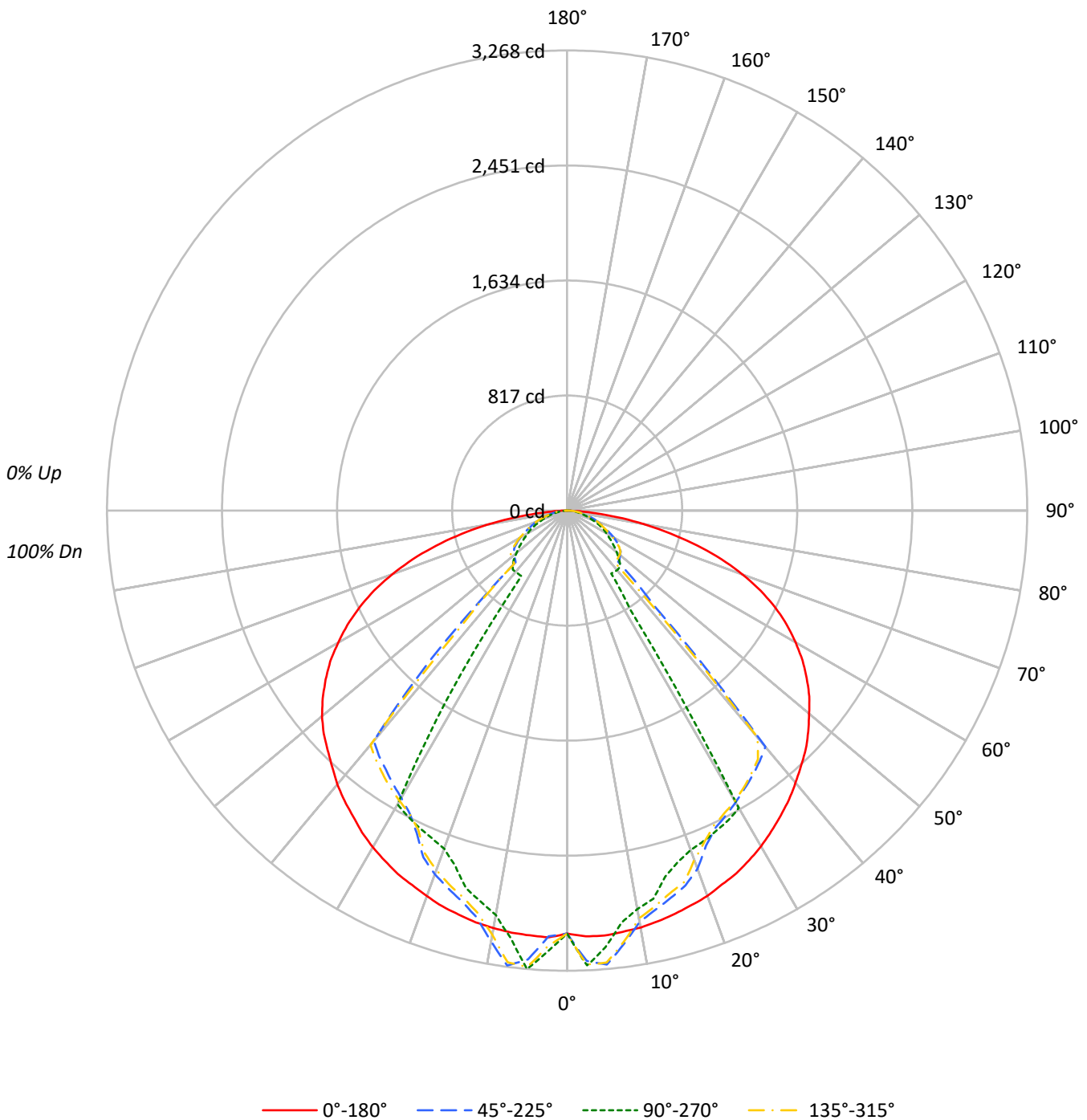
Lumens per Lamp: N/A  
Luminaire Lumens: 6015.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



TEST NUMBER: P#  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	12136	12136	12136	12136
5°	12272	12228	12267	12833
10°	12301	11056	12318	11225
15°	12346	10229	12375	10553
20°	12454	9702	12454	9665
25°	12582	9516	12600	9428
30°	12730	9349	12762	9237
35°	12902	2129	12930	2221
40°	13137	2214	13216	2286
45°	13484	2202	13531	2282
50°	13838	1991	14025	2045
55°	14314	1767	14428	1793
60°	14741	1570	14774	1591
65°	15091	1371	15052	1349
70°	15001	1105	14954	1065
75°	14112	850	14214	815
80°	11741	604	12211	553
85°	6769	362	7147	278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.5	4.9
10°-20°	812.6	13.5
20°-30°	1203.6	20.0
30°-40°	1212.7	20.2
40°-50°	947.3	15.7
50°-60°	731.7	12.2
60°-70°	491.3	8.2
70°-80°	250.6	4.2
80°-90°	69.7	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°	2311.7	38.4
0°-40°	3524.4	58.6
0°-60°	5203.4	86.5
0°-90°	6015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6015.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3004	3004	3004	3004	3004	
5°	3030	3114	3028	3268	3030	288
15°	2964	2691	2971	2777	2964	838
25°	2843	2508	2847	2485	2843	1311
35°	2644	545	2650	568	2644	1657
45°	2397	530	2405	549	2397	1848
55°	2077	385	2094	391	2077	1855
65°	1631	259	1627	255	1631	1604
75°	957	131	964	125	957	1001
85°	172	41	182	32	172	237
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3027.1	3038.2	3046.4	3051.9	3054.7	3054.7	3056.0	3057.4	3075.3	3083.6	3089.1
5°	3029.9	3040.9	3057.4	3079.4	3098.7	3115.2	3129.0	3148.3	3167.6	3188.2	3195.1
7.5°	3017.5	3031.3	3064.3	3104.2	3141.4	3167.6	3185.4	3197.8	3207.5	3208.8	3215.7
10°	3006.5	3031.3	3076.7	3129.0	3175.8	3207.5	3207.5	3200.6	3210.2	3173.1	3135.9
12.5°	2987.2	3014.7	3076.7	3145.5	3189.6	3202.0	3196.5	3168.9	3112.5	3067.1	3046.4
15°	2963.8	3001.0	3078.1	3155.2	3192.3	3196.5	3144.1	3073.9	3031.3	3003.7	2969.3
17.5°	2937.7	2987.2	3079.4	3156.5	3170.3	3151.0	3051.9	3007.9	2963.8	2899.1	2852.3
20°	2912.9	2961.1	3068.4	3137.3	3145.5	3058.8	2981.7	2934.9	2860.6	2804.1	2783.5
22.5°	2874.3	2930.8	3058.8	3111.1	3079.4	2979.0	2904.6	2830.3	2762.8	2746.3	2721.5
25°	2842.7	2901.9	3036.8	3079.4	2995.5	2906.0	2819.3	2732.5	2700.9	2677.5	2655.5
27.5°	2800.0	2873.0	3007.9	3021.6	2906.0	2827.5	2700.9	2662.3	2633.4	2607.3	2597.6
30°	2753.2	2842.7	2967.9	2941.8	2831.7	2716.0	2622.4	2586.6	2566.0	2538.4	2527.4
32.5°	2699.5	2797.2	2923.9	2849.6	2751.8	2607.3	2546.7	2519.2	2491.6	2471.0	2402.2
35°	2644.4	2757.3	2871.6	2761.5	2655.5	2524.7	2471.0	2446.2	2420.1	2344.3	2272.8
37.5°	2588.0	2713.3	2808.3	2666.5	2527.4	2439.3	2393.9	2366.4	2307.2	2210.8	2175.0
40°	2523.3	2659.6	2727.0	2568.7	2415.9	2352.6	2309.9	2282.4	2148.9	2106.2	2095.2
42.5°	2458.6	2607.3	2627.9	2473.7	2323.7	2260.4	2224.6	2133.7	2042.9	2020.8	2025.0
45°	2396.7	2550.8	2519.2	2338.8	2227.3	2175.0	2114.5	1989.2	1941.0	1952.0	1954.8
47.5°	2322.3	2483.4	2404.9	2203.9	2128.2	2075.9	1941.0	1865.3	1858.4	1873.5	1881.8
50°	2242.5	2407.7	2283.8	2081.4	2020.8	1958.9	1806.1	1767.6	1775.8	1791.0	1800.6
52.5°	2168.1	2322.3	2158.5	1967.2	1914.8	1773.1	1669.8	1676.7	1690.5	1708.4	1713.9
55°	2077.3	2219.1	2025.0	1851.5	1802.0	1616.1	1569.3	1585.8	1599.6	1614.7	1625.8
57.5°	1982.3	2100.7	1866.7	1722.1	1642.3	1477.1	1481.2	1492.2	1501.9	1519.8	627.7
60°	1873.5	1965.8	1693.2	1602.4	1444.1	1367.0	1371.1	1390.4	1400.0	781.9	432.3
62.5°	1760.7	1808.8	1536.3	1466.1	1262.3	1256.8	1276.1	1284.4	874.1	413.0	404.7
65°	1631.3	1621.6	1382.1	1270.6	1138.4	1144.0	1164.6	1123.3	386.8	386.8	384.1
67.5°	1488.1	1430.3	1232.1	1051.7	1018.7	1031.1	1053.1	367.6	357.9	360.7	351.0
70°	1324.3	1243.1	1076.5	890.7	901.7	914.1	355.2	333.1	329.0	322.1	302.9
72.5°	1150.8	1039.3	881.0	773.6	780.5	490.1	311.1	300.1	286.3	272.6	251.9
75°	956.7	812.2	647.0	647.0	656.6	279.4	271.2	253.3	238.2	220.3	207.9
77.5°	750.2	625.0	502.5	521.7	254.7	234.0	218.9	199.6	187.2	176.2	169.3
80°	549.3	436.4	378.6	338.6	198.2	177.6	162.4	151.4	145.9	139.0	130.8
82.5°	360.7	262.9	262.9	159.7	139.0	122.5	118.4	110.1	104.6	100.5	96.4
85°	172.1	152.8	115.6	97.7	86.7	78.5	75.7	71.6	71.6	70.2	68.8
87.5°	63.3	68.8	50.9	49.6	46.8	45.4	46.8	46.8	48.2	46.8	45.4
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°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3102.9	3113.9	3122.1	3135.9	3153.8	3168.9	3182.7	3202.0	3232.3	3240.5	3247.4
5°	3195.1	3199.2	3208.8	3219.9	3222.6	3229.5	3228.1	3236.4	3240.5	3250.1	3229.5
7.5°	3200.6	3178.6	3152.4	3129.0	3112.5	3097.3	3087.7	3102.9	3111.1	3118.0	3097.3
10°	3085.0	3058.8	3043.7	3029.9	3013.4	2990.0	2958.3	2965.2	2962.4	2962.4	2955.6
12.5°	3012.0	2974.8	2936.3	2901.9	2886.7	2885.3	2886.7	2901.9	2901.9	2900.5	2892.2
15°	2897.7	2861.9	2842.7	2834.4	2834.4	2830.3	2830.3	2846.8	2842.7	2842.7	2838.5
17.5°	2822.0	2797.2	2783.5	2773.8	2769.7	2776.6	2784.9	2791.7	2793.1	2787.6	2765.6
20°	2760.1	2736.7	2720.2	2722.9	2721.5	2725.7	2729.8	2706.4	2677.5	2638.9	2621.0
22.5°	2695.4	2677.5	2665.1	2665.1	2648.6	2622.4	2583.9	2575.6	2571.5	2553.6	2538.4
25°	2633.4	2612.8	2594.9	2539.8	2505.4	2509.5	2502.7	2488.9	2487.5	2486.1	2491.6
27.5°	2571.5	2517.8	2449.0	2440.7	2426.9	2425.6	2433.8	2440.7	2440.7	2446.2	2453.1
30°	2443.5	2381.5	2369.1	2354.0	2359.5	2378.8	2382.9	2392.5	2395.3	2404.9	2410.4
32.5°	2326.5	2298.9	2287.9	2294.8	2312.7	2329.2	2338.8	2343.0	2349.9	2358.1	2365.0
35°	2231.5	2223.2	2232.8	2248.0	2265.9	2279.6	2287.9	2296.2	2303.0	2309.9	2315.4
37.5°	2161.3	2166.8	2180.5	2199.8	2217.7	2228.7	2235.6	2245.2	2254.9	2263.1	2230.1
40°	2095.2	2108.9	2124.1	2144.7	2159.9	2170.9	2177.8	2190.2	2107.6	954.0	523.1
42.5°	2037.4	2052.5	2063.5	2080.0	2096.6	2104.8	2044.2	912.7	516.2	513.5	520.4
45°	1967.2	1979.5	1997.4	2009.8	2025.0	1329.8	508.0	513.5	505.2	510.7	513.5
47.5°	1895.6	1914.8	1924.5	1836.4	546.5	505.2	499.7	505.2	499.7	506.6	502.5
50°	1814.4	1837.8	1307.8	494.2	490.1	487.3	492.8	490.1	494.2	499.7	488.7
52.5°	1731.8	1072.4	479.1	476.3	479.1	476.3	485.9	479.1	480.4	474.9	461.2
55°	586.4	463.9	459.8	458.4	466.7	466.7	466.7	455.7	448.8	435.0	425.4
57.5°	448.8	448.8	447.4	448.8	446.0	443.3	430.9	421.2	411.6	392.3	386.8
60°	425.4	425.4	425.4	425.4	413.0	407.5	388.2	379.9	363.4	353.8	348.3
62.5°	406.1	403.3	391.0	386.8	373.1	357.9	346.9	338.6	322.1	316.6	312.5
65°	378.6	368.9	353.8	337.3	330.4	313.9	308.4	296.0	287.7	283.6	280.8
67.5°	333.1	319.4	307.0	296.0	283.6	278.1	271.2	261.6	256.0	253.3	250.5
70°	285.0	275.3	262.9	256.0	247.8	243.7	234.0	231.3	227.1	223.0	218.9
72.5°	238.2	232.6	227.1	217.5	214.7	212.0	202.4	196.9	191.3	185.8	183.1
75°	199.6	195.5	192.7	184.5	180.3	172.1	165.2	161.1	156.9	152.8	150.0
77.5°	163.8	161.1	152.8	147.3	144.5	137.7	134.9	136.3	133.5	128.0	125.3
80°	128.0	125.3	118.4	118.4	115.6	112.9	110.1	107.4	104.6	100.5	97.7
82.5°	97.7	95.0	92.2	89.5	86.7	85.3	84.0	81.2	78.5	75.7	74.3
85°	68.8	67.5	66.1	64.7	63.3	61.9	60.6	57.8	55.1	53.7	52.3
87.5°	46.8	45.4	44.1	42.7	41.3	39.9	38.5	37.2	34.4	33.0	31.7
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°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3247.4	3254.3	3247.4	3232.3	3222.6	3218.5	3226.7	3226.7	3232.3	3239.1	3240.5
5°	3196.5	3179.9	3160.7	3141.4	3131.8	3126.3	3111.1	3113.9	3118.0	3120.7	3123.5
7.5°	3069.8	3047.8	3021.6	2996.9	2987.2	2979.0	2961.1	2961.1	2961.1	2962.4	2970.7
10°	2940.4	2930.8	2919.8	2903.2	2890.9	2886.7	2871.6	2875.7	2873.0	2877.1	2886.7
12.5°	2879.8	2868.8	2859.2	2842.7	2828.9	2823.4	2816.5	2820.6	2819.3	2826.2	2834.4
15°	2824.8	2819.3	2808.3	2795.9	2783.5	2772.5	2747.7	2739.4	2733.9	2727.0	2736.7
17.5°	2733.9	2695.4	2669.2	2650.0	2636.2	2626.5	2619.7	2619.7	2623.8	2627.9	2636.2
20°	2610.0	2599.0	2586.6	2566.0	2552.2	2546.7	2542.6	2542.6	2549.5	2555.0	2570.1
22.5°	2524.7	2523.3	2519.2	2509.5	2502.7	2502.7	2504.0	2506.8	2516.4	2524.7	2539.8
25°	2484.8	2490.3	2487.5	2482.0	2477.9	2479.3	2476.5	2479.3	2488.9	2497.1	2509.5
27.5°	2453.1	2461.4	2458.6	2450.3	2443.5	2446.2	2450.3	2447.6	2455.9	2465.5	2475.1
30°	2410.4	2411.8	2417.3	2407.7	2404.9	2409.0	2410.4	2413.2	2421.4	2428.3	2436.6
32.5°	2362.2	2373.3	2371.9	2362.2	2362.2	2366.4	2367.7	2275.5	2103.4	1811.6	1731.8
35°	2315.4	2327.8	2307.2	1945.1	1346.3	718.6	554.8	535.5	539.6	542.4	545.1
37.5°	1712.5	812.2	517.6	521.7	525.9	530.0	534.1	538.2	542.4	546.5	547.9
40°	514.8	513.5	517.6	523.1	527.2	530.0	535.5	539.6	543.8	547.9	549.3
42.5°	509.3	512.1	516.2	521.7	527.2	532.7	536.9	542.4	545.1	547.9	549.3
45°	506.6	512.1	517.6	521.7	525.9	528.6	531.4	532.7	531.4	531.4	534.1
47.5°	502.5	508.0	509.3	508.0	509.3	508.0	508.0	508.0	503.8	502.5	502.5
50°	487.3	487.3	484.6	479.1	477.7	476.3	473.5	472.2	466.7	465.3	465.3
52.5°	455.7	454.3	450.1	443.3	440.5	437.8	436.4	435.0	429.5	426.7	428.1
55°	418.5	415.7	411.6	403.3	402.0	399.2	397.8	396.5	391.0	393.7	389.6
57.5°	384.1	378.6	373.1	371.7	366.2	364.8	363.4	362.0	357.9	359.3	356.5
60°	342.8	341.4	338.6	333.1	333.1	331.8	331.8	329.0	326.3	324.9	324.9
62.5°	312.5	308.4	305.6	305.6	301.5	301.5	301.5	298.7	296.0	297.3	296.0
65°	279.4	278.1	276.7	273.9	273.9	272.6	272.6	269.8	265.7	267.1	264.3
67.5°	251.9	249.2	246.4	245.0	239.5	236.8	235.4	234.0	228.5	229.9	227.1
70°	217.5	213.4	210.6	207.9	203.7	201.0	201.0	198.2	194.1	195.5	192.7
72.5°	181.7	179.0	176.2	174.8	170.7	169.3	167.9	166.6	162.4	163.8	162.4
75°	151.4	151.4	150.0	148.7	144.5	140.4	137.7	136.3	133.5	134.9	132.2
77.5°	125.3	122.5	119.8	119.8	115.6	112.9	110.1	110.1	110.1	108.8	107.4
80°	97.7	95.0	95.0	93.6	90.9	88.1	86.7	86.7	85.3	85.3	84.0
82.5°	74.3	71.6	70.2	70.2	67.5	66.1	64.7	63.3	63.3	63.3	61.9
85°	52.3	49.6	48.2	48.2	45.4	44.1	44.1	42.7	42.7	41.3	41.3
87.5°	31.7	30.3	28.9	28.9	26.2	24.8	24.8	24.8	23.4	23.4	22.0
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3240.5	3240.5	3230.9	3233.6	3229.5	3235.0	3228.1	3228.1	3236.4	3236.4	3241.9
5°	3124.9	3118.0	3116.6	3113.9	3100.1	3105.6	3098.7	3091.8	3101.5	3101.5	3113.9
7.5°	2966.6	2954.2	2959.7	2951.4	2943.2	2930.8	2934.9	2929.4	2936.3	2945.9	2958.3
10°	2885.3	2874.3	2881.2	2873.0	2877.1	2859.2	2860.6	2861.9	2868.8	2871.6	2882.6
12.5°	2833.0	2830.3	2827.5	2824.8	2827.5	2817.9	2812.4	2813.8	2816.5	2817.9	2826.2
15°	2722.9	2705.0	2710.5	2691.2	2692.6	2694.0	2683.0	2694.0	2692.6	2710.5	2727.0
17.5°	2633.4	2633.4	2623.8	2615.5	2610.0	2608.7	2600.4	2605.9	2600.4	2611.4	2615.5
20°	2571.5	2570.1	2568.7	2564.6	2550.8	2552.2	2556.3	2544.0	2542.6	2541.2	2549.5
22.5°	2542.6	2544.0	2538.4	2538.4	2526.1	2528.8	2530.2	2516.4	2517.8	2513.7	2517.8
25°	2512.3	2515.0	2508.2	2508.2	2505.4	2504.0	2497.1	2499.9	2491.6	2484.8	2491.6
27.5°	2476.5	2482.0	2476.5	2479.3	2473.7	2471.0	2466.9	2464.1	2455.9	2454.5	2458.6
30°	2443.5	2446.2	2444.8	2438.0	2436.6	2428.3	2432.4	2424.2	2415.9	2417.3	2420.1
32.5°	1252.7	1196.3	922.3	832.8	824.6	854.9	1013.2	1233.4	1598.2	1952.0	2206.7
35°	546.5	546.5	546.5	545.1	545.1	543.8	542.4	541.0	539.6	538.2	536.9
37.5°	549.3	549.3	549.3	549.3	547.9	546.5	546.5	543.8	542.4	541.0	539.6
40°	550.6	552.0	552.0	552.0	550.6	550.6	549.3	546.5	545.1	542.4	539.6
42.5°	549.3	550.6	550.6	549.3	549.3	547.9	547.9	546.5	545.1	543.8	542.4
45°	531.4	532.7	530.0	530.0	528.6	528.6	528.6	528.6	528.6	530.0	530.0
47.5°	499.7	499.7	498.3	497.0	497.0	495.6	497.0	495.6	498.3	499.7	502.5
50°	462.5	462.5	459.8	458.4	458.4	458.4	458.4	459.8	461.2	463.9	466.7
52.5°	424.0	424.0	422.6	421.2	419.9	419.9	424.0	422.6	424.0	425.4	429.5
55°	386.8	388.2	385.4	385.4	384.1	384.1	384.1	385.4	386.8	388.2	392.3
57.5°	355.2	355.2	352.4	352.4	352.4	351.0	355.2	352.4	353.8	355.2	357.9
60°	323.5	322.1	322.1	320.7	320.7	320.7	323.5	322.1	322.1	323.5	326.3
62.5°	294.6	294.6	293.2	293.2	291.8	291.8	294.6	293.2	293.2	294.6	296.0
65°	261.6	261.6	260.2	258.8	262.9	258.8	262.9	260.2	262.9	264.3	267.1
67.5°	224.4	224.4	224.4	223.0	223.0	225.8	227.1	224.4	225.8	228.5	229.9
70°	191.3	191.3	190.0	190.0	190.0	192.7	194.1	191.3	192.7	194.1	196.9
72.5°	162.4	159.7	159.7	158.3	161.1	161.1	162.4	161.1	162.4	162.4	165.2
75°	133.5	130.8	130.8	130.8	133.5	132.2	133.5	132.2	133.5	133.5	134.9
77.5°	107.4	106.0	104.6	104.6	107.4	107.4	107.4	106.0	107.4	108.8	110.1
80°	84.0	82.6	81.2	81.2	84.0	84.0	84.0	85.3	84.0	85.3	86.7
82.5°	61.9	60.6	59.2	61.9	61.9	61.9	61.9	63.3	61.9	63.3	64.7
85°	41.3	39.9	38.5	41.3	41.3	41.3	41.3	42.7	41.3	42.7	44.1
87.5°	22.0	20.6	20.6	22.0	22.0	22.0	23.4	23.4	23.4	24.8	24.8
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3250.1	3254.3	3252.9	3244.6	3236.4	3226.7	3219.9	3221.2	3235.0	3239.1	3226.7
5°	3113.9	3140.0	3140.0	3157.9	3148.3	3140.0	3145.5	3175.8	3191.0	3214.4	3222.6
7.5°	2973.5	2985.8	2984.5	3002.4	2999.6	2999.6	3003.7	3043.7	3062.9	3082.2	3087.7
10°	2895.0	2907.4	2906.0	2907.4	2903.2	2893.6	2893.6	2911.5	2928.0	2937.7	2940.4
12.5°	2838.5	2845.4	2844.1	2844.1	2841.3	2833.0	2831.7	2846.8	2864.7	2877.1	2878.5
15°	2754.6	2773.8	2778.0	2795.9	2791.7	2780.7	2783.5	2795.9	2806.9	2817.9	2813.8
17.5°	2629.3	2638.9	2640.3	2647.2	2644.4	2644.4	2661.0	2706.4	2736.7	2762.8	2765.6
20°	2557.7	2564.6	2561.8	2577.0	2570.1	2568.7	2572.9	2592.1	2605.9	2618.3	2640.3
22.5°	2523.3	2528.8	2524.7	2526.1	2513.7	2502.7	2499.9	2515.0	2530.2	2546.7	2546.7
25°	2494.4	2498.5	2497.1	2494.4	2484.8	2469.6	2466.9	2469.6	2475.1	2476.5	2466.9
27.5°	2460.0	2462.7	2462.7	2464.1	2451.7	2438.0	2435.2	2432.4	2438.0	2436.6	2421.4
30°	2424.2	2420.1	2421.4	2422.8	2411.8	2399.4	2393.9	2392.5	2398.0	2396.7	2381.5
32.5°	2338.8	2370.5	2373.3	2376.0	2366.4	2355.4	2349.9	2345.7	2348.5	2347.1	2333.3
35°	535.5	545.1	667.6	1511.5	2052.5	2272.8	2296.2	2290.7	2292.0	2292.0	2281.0
37.5°	536.9	535.5	534.1	530.0	525.9	523.1	904.4	1928.6	2234.2	2235.6	2226.0
40°	536.9	535.5	534.1	531.4	525.9	521.7	514.8	509.3	521.7	1148.1	2100.7
42.5°	539.6	536.9	534.1	531.4	525.9	520.4	514.8	508.0	512.1	509.3	502.5
45°	531.4	530.0	530.0	528.6	525.9	520.4	513.5	505.2	501.1	505.2	498.3
47.5°	505.2	506.6	510.7	512.1	512.1	513.5	509.3	503.8	497.0	501.1	492.8
50°	469.4	472.2	473.5	480.4	483.2	488.7	490.1	490.1	488.7	494.2	488.7
52.5°	430.9	433.6	440.5	443.3	446.0	454.3	457.0	461.2	463.9	472.2	477.7
55°	393.7	395.1	397.8	403.3	407.5	414.4	418.5	422.6	429.5	433.6	450.1
57.5°	359.3	360.7	366.2	367.6	370.3	375.8	379.9	385.4	391.0	393.7	413.0
60°	326.3	327.6	331.8	333.1	334.5	340.0	344.1	348.3	352.4	355.2	368.9
62.5°	297.3	297.3	301.5	301.5	302.9	307.0	309.7	312.5	316.6	318.0	324.9
65°	268.4	269.8	272.6	272.6	273.9	276.7	278.1	279.4	283.6	283.6	289.1
67.5°	232.6	234.0	238.2	240.9	242.3	247.8	249.2	250.5	253.3	254.7	257.4
70°	198.2	199.6	203.7	205.1	206.5	210.6	213.4	217.5	221.6	225.8	228.5
72.5°	166.6	167.9	172.1	172.1	176.2	177.6	180.3	181.7	185.8	188.6	192.7
75°	136.3	137.7	141.8	141.8	145.9	147.3	148.7	150.0	152.8	155.6	158.3
77.5°	111.5	111.5	117.0	119.8	122.5	122.5	123.9	123.9	123.9	125.3	128.0
80°	88.1	88.1	92.2	95.0	97.7	97.7	99.1	100.5	101.9	101.9	103.2
82.5°	66.1	66.1	70.2	71.6	74.3	74.3	74.3	75.7	77.1	75.7	78.5
85°	45.4	45.4	48.2	49.6	52.3	52.3	52.3	53.7	55.1	53.7	55.1
87.5°	26.2	27.5	28.9	30.3	31.7	33.0	33.0	33.0	34.4	34.4	35.8
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3213.0	3196.5	3195.1	3175.8	3170.3	3171.7	3156.5	3151.0	3126.3	3120.7	3094.6
5°	3225.4	3233.6	3229.5	3228.1	3232.3	3229.5	3218.5	3213.0	3208.8	3197.8	3175.8
7.5°	3089.1	3094.6	3098.7	3116.6	3131.8	3157.9	3185.4	3203.3	3217.1	3219.9	3202.0
10°	2950.0	2976.2	2994.1	3021.6	3043.7	3058.8	3075.3	3090.5	3130.4	3170.3	3193.7
12.5°	2878.5	2885.3	2884.0	2899.1	2914.3	2954.2	2992.7	3014.7	3045.0	3062.9	3105.6
15°	2817.9	2819.3	2823.4	2834.4	2842.7	2856.4	2874.3	2907.4	2967.9	2995.5	3018.9
17.5°	2762.8	2762.8	2765.6	2775.2	2786.2	2798.6	2809.6	2823.4	2853.7	2899.1	2956.9
20°	2674.7	2713.3	2717.4	2716.0	2721.5	2744.9	2747.7	2772.5	2787.6	2805.5	2861.9
22.5°	2544.0	2567.4	2600.4	2651.3	2670.6	2681.6	2689.9	2700.9	2724.3	2744.9	2768.3
25°	2472.4	2487.5	2497.1	2512.3	2552.2	2616.9	2629.3	2641.7	2656.8	2672.0	2700.9
27.5°	2409.0	2407.7	2414.6	2428.3	2439.3	2473.7	2534.3	2582.5	2585.3	2607.3	2632.1
30°	2363.6	2355.4	2345.7	2343.0	2358.1	2376.0	2393.9	2469.6	2521.9	2532.9	2559.1
32.5°	2320.9	2307.2	2293.4	2282.4	2272.8	2287.9	2298.9	2332.0	2399.4	2462.7	2476.5
35°	2268.6	2254.9	2238.3	2226.0	2210.8	2209.4	2208.1	2239.7	2261.8	2337.5	2403.5
37.5°	2214.9	2199.8	2186.0	2172.3	2157.1	2146.1	2139.2	2147.5	2168.1	2201.2	2311.3
40°	2158.5	2140.6	2126.8	2115.8	2095.2	2086.9	2073.2	2067.6	2069.0	2097.9	2155.8
42.5°	1289.9	2056.6	2063.5	2051.1	2033.2	2022.2	2007.1	2000.2	1986.4	2000.2	2033.2
45°	497.0	502.5	1504.6	1987.8	1965.8	1952.0	1938.2	1931.4	1916.2	1905.2	1935.5
47.5°	487.3	492.8	481.8	682.8	1876.3	1880.4	1863.9	1857.0	1841.9	1833.6	1825.4
50°	480.4	484.6	476.3	479.1	469.4	1719.4	1788.2	1779.9	1763.4	1753.8	1737.3
52.5°	473.5	473.5	468.0	461.2	458.4	459.8	1446.8	1701.5	1682.2	1672.6	1650.5
55°	451.5	454.3	459.8	448.8	446.0	444.6	440.5	1378.0	1592.7	1581.7	1562.4
57.5°	418.5	424.0	439.1	436.4	436.4	425.4	422.6	422.6	1278.9	1489.5	1470.2
60°	379.9	385.4	402.0	407.5	411.6	408.8	406.1	404.7	399.2	1347.7	1372.5
62.5°	340.0	345.5	351.0	368.9	374.4	381.3	389.6	385.4	379.9	379.9	1269.2
65°	297.3	305.6	308.4	324.9	331.8	344.1	351.0	360.7	357.9	356.5	363.4
67.5°	260.2	269.8	271.2	278.1	290.5	296.0	304.2	322.1	330.4	333.1	335.9
70°	228.5	234.0	238.2	240.9	249.2	250.5	265.7	278.1	290.5	304.2	308.4
72.5°	196.9	201.0	209.2	206.5	209.2	214.7	223.0	231.3	243.7	262.9	275.3
75°	161.1	163.8	169.3	172.1	177.6	181.7	187.2	194.1	205.1	214.7	231.3
77.5°	129.4	130.8	134.9	136.3	141.8	145.9	155.6	159.7	166.6	173.5	183.1
80°	104.6	104.6	106.0	106.0	110.1	114.3	121.1	125.3	133.5	139.0	139.0
82.5°	79.8	79.8	84.0	84.0	86.7	86.7	90.9	90.9	95.0	97.7	100.5
85°	56.4	57.8	60.6	59.2	61.9	60.6	63.3	66.1	67.5	66.1	64.7
87.5°	37.2	37.2	39.9	38.5	39.9	39.9	42.7	42.7	44.1	44.1	42.7
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3085.0	3064.3	3051.9	3036.8	3032.6	3028.5	3034.0	3034.0	3025.8	3018.9	3006.5
5°	3156.5	3134.5	3111.1	3086.3	3062.9	3038.2	3028.5	3027.1	3012.0	3003.7	2999.6
7.5°	3193.7	3182.7	3156.5	3122.1	3086.3	3042.3	3023.0	3012.0	2996.9	2994.1	2994.1
10°	3197.8	3185.4	3171.7	3146.9	3105.6	3047.8	3010.6	2988.6	2974.8	2984.5	3002.4
12.5°	3157.9	3181.3	3168.9	3152.4	3119.4	3049.2	2995.5	2962.4	2958.3	2983.1	3029.9
15°	3056.0	3124.9	3159.3	3142.8	3116.6	3046.4	2970.7	2932.2	2932.2	2983.1	3043.7
17.5°	2979.0	3032.6	3116.6	3130.4	3100.1	3040.9	2947.3	2901.9	2914.3	2988.6	3053.3
20°	2915.6	2948.7	3029.9	3107.0	3078.1	3028.5	2912.9	2866.1	2890.9	2980.3	3067.1
22.5°	2816.5	2882.6	2932.2	3046.4	3056.0	3005.1	2878.5	2822.0	2871.6	2980.3	3060.2
25°	2720.2	2800.0	2852.3	2963.8	3023.0	2976.2	2846.8	2775.2	2850.9	2976.2	3054.7
27.5°	2652.7	2689.9	2784.9	2864.7	2973.5	2937.7	2804.1	2724.3	2824.8	2954.2	3023.0
30°	2581.1	2605.9	2699.5	2775.2	2907.4	2893.6	2760.1	2667.8	2791.7	2933.5	2940.4
32.5°	2502.7	2530.2	2578.4	2688.5	2815.1	2852.3	2710.5	2611.4	2755.9	2901.9	2844.1
35°	2422.8	2443.5	2482.0	2600.4	2707.8	2790.4	2650.0	2546.7	2731.2	2853.7	2751.8
37.5°	2343.0	2365.0	2398.0	2497.1	2594.9	2732.5	2597.6	2482.0	2685.7	2768.3	2655.5
40°	2267.3	2279.6	2314.1	2376.0	2501.3	2673.4	2538.4	2414.6	2638.9	2659.6	2524.7
42.5°	2128.2	2190.2	2221.8	2271.4	2395.3	2592.1	2469.6	2343.0	2586.6	2550.8	2393.9
45°	1978.2	2113.1	2126.8	2176.4	2301.7	2505.4	2404.9	2272.8	2537.1	2457.2	2270.0
47.5°	1855.7	1953.4	2033.2	2074.5	2190.2	2403.5	2344.3	2213.6	2462.7	2338.8	2148.9
50°	1746.9	1799.2	1943.8	1974.0	2056.6	2281.0	2272.8	2144.7	2359.5	2190.2	2030.5
52.5°	1640.9	1678.1	1808.8	1873.5	1941.0	2148.9	2187.4	2077.3	2246.6	2041.5	1910.7
55°	1548.7	1561.1	1632.6	1768.9	1829.5	2015.3	2093.8	1998.8	2103.4	1899.7	1795.1
57.5°	1453.7	1442.7	1495.0	1669.8	1713.9	1879.1	1994.7	1919.0	1987.8	1755.2	1675.3
60°	1354.6	1339.4	1361.5	1477.1	1591.3	1744.1	1877.7	1830.9	1847.4	1612.0	1541.8
62.5°	1251.3	1236.2	1229.3	1302.3	1471.6	1605.1	1759.3	1733.1	1675.3	1481.2	1376.6
65°	1144.0	1128.8	1117.8	1146.7	1339.4	1424.8	1627.1	1620.3	1486.7	1343.6	1159.1
67.5°	348.3	1026.9	1003.5	1002.2	1128.8	1261.0	1484.0	1473.0	1296.8	1196.3	998.0
70°	313.9	832.8	885.2	872.8	927.8	1094.4	1320.2	1311.9	1112.3	959.5	882.4
72.5°	287.7	294.6	781.9	768.1	780.5	930.6	1149.5	1127.4	943.0	757.1	762.6
75°	246.4	258.8	269.8	648.4	631.9	770.9	963.6	929.2	777.8	625.0	637.4
77.5°	201.0	216.1	224.4	472.2	510.7	549.3	769.5	724.1	535.5	499.7	238.2
80°	150.0	162.4	176.2	188.6	388.2	384.1	571.3	525.9	373.1	311.1	185.8
82.5°	110.1	114.3	122.5	136.3	154.2	257.4	367.6	323.5	258.8	141.8	128.0
85°	68.8	74.3	78.5	82.6	93.6	154.2	181.7	144.5	108.8	86.7	81.2
87.5°	44.1	44.1	42.7	44.1	45.4	55.1	61.9	59.2	46.8	44.1	44.1
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	2992.7	2973.5	2973.5	2967.9	2972.1	2972.1	2970.7	2972.1	2981.7	2987.2	2996.9
5°	2991.3	2985.8	2998.2	3013.4	3031.3	3053.3	3058.8	3078.1	3096.0	3119.4	3144.1
7.5°	3009.2	3028.5	3051.9	3076.7	3112.5	3138.6	3162.0	3185.4	3202.0	3224.0	3237.8
10°	3035.4	3073.9	3113.9	3145.5	3184.1	3206.1	3221.2	3224.0	3200.6	3163.4	3133.1
12.5°	3072.6	3118.0	3155.2	3185.4	3203.3	3195.1	3151.0	3105.6	3079.4	3040.9	2987.2
15°	3104.2	3145.5	3184.1	3171.7	3123.5	3078.1	3043.7	2990.0	2937.7	2901.9	2878.5
17.5°	3118.0	3157.9	3144.1	3079.4	3034.0	2981.7	2911.5	2870.2	2835.8	2808.3	2794.5
20°	3126.3	3119.4	3045.0	2998.2	2910.1	2861.9	2816.5	2778.0	2751.8	2738.1	2735.3
22.5°	3104.2	3020.3	2956.9	2873.0	2808.3	2768.3	2732.5	2700.9	2683.0	2672.0	2665.1
25°	3031.3	2933.5	2839.9	2773.8	2718.8	2684.4	2656.8	2630.7	2608.7	2603.1	2589.4
27.5°	2929.4	2849.6	2725.7	2674.7	2626.5	2610.0	2579.7	2553.6	2534.3	2517.8	2473.7
30°	2845.4	2718.8	2629.3	2582.5	2553.6	2534.3	2499.9	2472.4	2439.3	2378.8	2354.0
32.5°	2742.2	2616.9	2531.6	2505.4	2469.6	2453.1	2414.6	2354.0	2303.0	2278.3	2276.9
35°	2608.7	2505.4	2443.5	2420.1	2391.2	2363.6	2283.8	2228.7	2203.9	2206.7	2227.3
37.5°	2497.1	2404.9	2365.0	2332.0	2298.9	2228.7	2161.3	2135.1	2142.0	2155.8	2165.4
40°	2384.3	2314.1	2268.6	2242.5	2168.1	2099.3	2063.5	2073.2	2085.5	2095.2	2107.6
42.5°	2274.1	2224.6	2179.2	2128.2	2026.4	1989.2	1997.4	2009.8	2020.8	2034.6	2047.0
45°	2169.5	2125.5	2073.2	1957.5	1906.6	1916.2	1928.6	1938.2	1954.8	1964.4	1976.8
47.5°	2070.4	2023.6	1931.4	1829.5	1824.0	1843.3	1854.3	1866.7	1879.1	1854.3	1022.8
50°	1958.9	1910.7	1770.3	1731.8	1744.1	1762.0	1775.8	1788.2	1592.7	633.2	487.3
52.5°	1848.8	1726.3	1636.8	1647.8	1660.2	1680.8	1690.5	1255.5	499.7	476.3	477.7
55°	1726.3	1569.3	1543.2	1556.9	1567.9	1588.6	1053.1	461.2	458.4	457.0	468.0
57.5°	1533.5	1438.5	1449.6	1463.3	1474.3	1040.7	448.8	446.0	447.4	448.8	450.1
60°	1361.5	1340.8	1353.2	1365.6	966.4	433.6	425.4	426.7	432.3	428.1	417.1
62.5°	1225.2	1241.7	1254.1	1098.5	411.6	407.5	411.6	407.5	397.8	391.0	377.2
65°	1120.6	1137.1	1146.7	386.8	385.4	391.0	386.8	373.1	357.9	338.6	334.5
67.5°	1010.4	1026.9	367.6	357.9	363.4	356.5	340.0	323.5	312.5	296.0	289.1
70°	896.2	384.1	333.1	331.8	322.1	311.1	293.2	276.7	262.9	256.0	249.2
72.5°	647.0	304.2	300.1	289.1	272.6	257.4	242.3	232.6	225.8	221.6	217.5
75°	269.8	264.3	251.9	232.6	216.1	209.2	198.2	191.3	188.6	180.3	177.6
77.5°	225.8	214.7	196.9	183.1	173.5	169.3	161.1	152.8	148.7	147.3	141.8
80°	173.5	158.3	150.0	143.2	140.4	130.8	121.1	117.0	114.3	112.9	108.8
82.5°	118.4	112.9	107.4	97.7	97.7	93.6	89.5	86.7	84.0	84.0	81.2
85°	77.1	73.0	71.6	67.5	67.5	64.7	63.3	61.9	60.6	59.2	57.8
87.5°	44.1	44.1	45.4	44.1	44.1	42.7	41.3	39.9	38.5	38.5	35.8
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3009.2	3023.0	3025.8	3072.6	3098.7	3097.3	3089.1	3113.9	3098.7	3090.5	3098.7
5°	3168.9	3185.4	3199.2	3250.1	3268.0	3276.3	3274.9	3288.7	3277.7	3268.0	3268.0
7.5°	3247.4	3252.9	3258.4	3246.0	3237.8	3224.0	3203.3	3173.1	3157.9	3141.4	3120.7
10°	3118.0	3100.1	3107.0	3082.2	3061.6	3046.4	3027.1	3002.4	2981.7	2966.6	2943.2
12.5°	2959.7	2958.3	2961.1	2965.2	2944.5	2932.2	2917.0	2899.1	2884.0	2867.5	2848.2
15°	2863.3	2864.7	2875.7	2871.6	2864.7	2857.8	2841.3	2835.8	2822.0	2804.1	2793.1
17.5°	2794.5	2801.4	2812.4	2806.9	2795.9	2789.0	2776.6	2764.2	2751.8	2738.1	2721.5
20°	2733.9	2740.8	2747.7	2740.8	2720.2	2710.5	2694.0	2655.5	2627.9	2600.4	2575.6
22.5°	2667.8	2672.0	2666.5	2644.4	2592.1	2567.4	2548.1	2537.1	2513.7	2498.5	2483.4
25°	2585.3	2561.8	2526.1	2501.3	2480.6	2469.6	2461.4	2460.0	2457.2	2454.5	2447.6
27.5°	2450.3	2442.1	2422.8	2413.2	2414.6	2418.7	2420.1	2424.2	2420.1	2414.6	2409.0
30°	2349.9	2354.0	2355.4	2358.1	2365.0	2369.1	2370.5	2376.0	2373.3	2369.1	2366.4
32.5°	2286.5	2296.2	2301.7	2309.9	2314.1	2320.9	2320.9	2329.2	2320.9	2319.6	2316.8
35°	2234.2	2242.5	2245.2	2257.6	2261.8	2268.6	2268.6	2275.5	2268.6	2198.4	1735.9
37.5°	2181.9	2190.2	2195.7	2206.7	2208.1	2212.2	2041.5	1493.6	963.6	746.1	569.9
40°	2120.0	2129.6	2135.1	2139.2	1503.2	954.0	656.6	534.1	534.1	538.2	542.4
42.5°	2053.9	2060.8	1435.8	835.6	520.4	519.0	523.1	527.2	531.4	536.9	542.4
45°	1614.7	814.9	517.6	505.2	509.3	514.8	520.4	525.9	532.7	538.2	541.0
47.5°	530.0	497.0	503.8	498.3	505.2	512.1	517.6	523.1	524.5	525.9	524.5
50°	490.1	490.1	494.2	494.2	499.7	502.5	502.5	502.5	497.0	495.6	491.4
52.5°	473.5	484.6	479.1	481.8	479.1	474.9	470.8	466.7	458.4	455.7	450.1
55°	465.3	469.4	455.7	451.5	446.0	435.0	429.5	424.0	417.1	414.4	407.5
57.5°	446.0	436.4	421.2	414.4	404.7	393.7	388.2	384.1	377.2	374.4	370.3
60°	410.2	391.0	381.3	373.1	362.0	352.4	348.3	345.5	340.0	338.6	334.5
62.5°	366.2	349.7	341.4	330.4	322.1	316.6	312.5	311.1	305.6	305.6	302.9
65°	318.0	309.7	302.9	291.8	287.7	282.2	280.8	279.4	276.7	275.3	272.6
67.5°	279.4	273.9	264.3	258.8	256.0	251.9	249.2	246.4	240.9	238.2	234.0
70°	245.0	240.9	231.3	227.1	221.6	214.7	210.6	207.9	203.7	201.0	196.9
72.5°	212.0	199.6	192.7	188.6	184.5	177.6	176.2	173.5	169.3	167.9	163.8
75°	170.7	161.1	156.9	154.2	150.0	145.9	145.9	145.9	141.8	140.4	139.0
77.5°	136.3	130.8	128.0	125.3	123.9	121.1	117.0	115.6	111.5	111.5	110.1
80°	104.6	101.9	99.1	97.7	96.4	93.6	90.9	89.5	85.3	85.3	84.0
82.5°	77.1	75.7	74.3	73.0	71.6	70.2	66.1	64.7	61.9	61.9	60.6
85°	55.1	53.7	50.9	49.6	49.6	48.2	44.1	42.7	39.9	39.9	39.9
87.5°	34.4	33.0	31.7	30.3	28.9	27.5	24.8	23.4	23.4	20.6	19.3
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3082.2	3105.6	3102.9	3119.4	3123.5	3131.8	3134.5	3135.9	3115.2	3131.8	3133.1
5°	3263.9	3268.0	3270.8	3277.7	3284.6	3285.9	3279.1	3270.8	3273.5	3268.0	3254.3
7.5°	3118.0	3097.3	3093.2	3087.7	3085.0	3082.2	3069.8	3080.8	3068.4	3062.9	3043.7
10°	2939.0	2919.8	2918.4	2918.4	2922.5	2921.1	2918.4	2912.9	2923.9	2917.0	2912.9
12.5°	2845.4	2838.5	2842.7	2839.9	2850.9	2853.7	2850.9	2850.9	2848.2	2842.7	2845.4
15°	2789.0	2783.5	2787.6	2783.5	2791.7	2793.1	2786.2	2790.4	2783.5	2776.6	2773.8
17.5°	2714.7	2702.3	2692.6	2678.9	2680.2	2677.5	2669.2	2669.2	2662.3	2644.4	2645.8
20°	2571.5	2559.1	2553.6	2553.6	2560.5	2563.2	2561.8	2564.6	2557.7	2555.0	2544.0
22.5°	2482.0	2480.6	2483.4	2490.3	2501.3	2516.4	2517.8	2517.8	2517.8	2516.4	2502.7
25°	2450.3	2450.3	2453.1	2462.7	2471.0	2482.0	2484.8	2487.5	2484.8	2484.8	2472.4
27.5°	2414.6	2411.8	2417.3	2426.9	2436.6	2444.8	2451.7	2453.1	2449.0	2449.0	2453.1
30°	2370.5	2369.1	2376.0	2385.6	2393.9	2402.2	2409.0	2414.6	2409.0	2409.0	2404.9
32.5°	2325.1	2325.1	2327.8	2270.0	2104.8	1895.6	1899.7	1778.6	1694.6	1588.6	1729.0
35°	1450.9	1055.9	907.2	768.1	670.4	607.1	605.7	585.1	575.4	568.5	567.2
37.5°	547.9	550.6	556.1	558.9	563.0	565.8	567.2	567.2	567.2	567.2	565.8
40°	546.5	552.0	556.1	560.3	564.4	567.2	567.2	568.5	569.9	569.9	569.9
42.5°	547.9	553.4	558.9	563.0	565.8	567.2	568.5	569.9	569.9	569.9	569.9
45°	546.5	549.3	549.3	550.6	550.6	550.6	552.0	552.0	550.6	549.3	552.0
47.5°	525.9	525.9	521.7	520.4	519.0	516.2	517.6	516.2	514.8	513.5	516.2
50°	490.1	484.6	481.8	479.1	477.7	474.9	476.3	474.9	473.5	470.8	474.9
52.5°	447.4	446.0	440.5	437.8	436.4	437.8	435.0	433.6	432.3	430.9	432.3
55°	406.1	400.6	399.2	396.5	395.1	396.5	395.1	393.7	392.3	391.0	392.3
57.5°	368.9	364.8	363.4	360.7	360.7	360.7	360.7	359.3	357.9	356.5	357.9
60°	333.1	330.4	329.0	329.0	327.6	327.6	327.6	326.3	324.9	324.9	326.3
62.5°	302.9	302.9	298.7	297.3	297.3	298.7	297.3	296.0	294.6	293.2	296.0
65°	271.2	265.7	264.3	261.6	258.8	260.2	258.8	257.4	256.0	254.7	257.4
67.5°	232.6	231.3	225.8	223.0	221.6	223.0	221.6	220.3	218.9	217.5	220.3
70°	195.5	195.5	190.0	188.6	187.2	187.2	185.8	185.8	184.5	183.1	185.8
72.5°	162.4	162.4	161.1	158.3	156.9	155.6	154.2	152.8	152.8	154.2	154.2
75°	134.9	132.2	126.6	128.0	126.6	125.3	125.3	123.9	122.5	125.3	123.9
77.5°	106.0	104.6	100.5	101.9	100.5	99.1	99.1	97.7	96.4	97.7	97.7
80°	79.8	79.8	78.5	77.1	77.1	75.7	74.3	74.3	73.0	74.3	74.3
82.5°	57.8	57.8	56.4	55.1	53.7	53.7	52.3	52.3	52.3	52.3	52.3
85°	37.2	35.8	35.8	33.0	33.0	33.0	31.7	31.7	31.7	31.7	31.7
87.5°	17.9	17.9	16.5	16.5	15.1	13.8	13.8	12.4	12.4	13.8	13.8
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3108.4	3126.3	3111.1	3118.0	3119.4	3142.8	3141.4	3146.9	3137.3	3126.3	3111.1
5°	3266.7	3258.4	3247.4	3273.5	3259.8	3276.3	3281.8	3292.8	3292.8	3291.4	3279.1
7.5°	3064.3	3046.4	3060.2	3069.8	3073.9	3062.9	3085.0	3109.7	3130.4	3142.8	3144.1
10°	2906.0	2911.5	2910.1	2914.3	2923.9	2922.5	2936.3	2950.0	2955.6	2963.8	2966.6
12.5°	2831.7	2830.3	2833.0	2842.7	2848.2	2846.8	2860.6	2868.8	2871.6	2873.0	2871.6
15°	2772.5	2762.8	2769.7	2771.1	2775.2	2775.2	2791.7	2804.1	2809.6	2812.4	2809.6
17.5°	2661.0	2637.6	2659.6	2659.6	2674.7	2672.0	2698.1	2718.8	2729.8	2738.1	2738.1
20°	2550.8	2539.8	2548.1	2545.3	2556.3	2555.0	2571.5	2585.3	2594.9	2601.8	2610.0
22.5°	2506.8	2509.5	2497.1	2498.5	2498.5	2497.1	2505.4	2512.3	2515.0	2519.2	2516.4
25°	2477.9	2480.6	2476.5	2469.6	2466.9	2469.6	2473.7	2482.0	2483.4	2480.6	2471.0
27.5°	2449.0	2440.7	2447.6	2435.2	2432.4	2438.0	2443.5	2444.8	2446.2	2446.2	2438.0
30°	2404.9	2398.0	2404.9	2399.4	2393.9	2399.4	2403.5	2403.5	2406.3	2407.7	2398.0
32.5°	1680.8	1694.6	1917.6	2052.5	2242.5	2338.8	2356.7	2356.7	2359.5	2359.5	2351.2
35°	572.7	574.0	620.8	673.2	784.7	922.3	1102.7	1196.3	1512.9	1891.4	2257.6
37.5°	565.8	564.4	563.0	561.7	560.3	558.9	556.1	554.8	563.0	667.6	905.8
40°	568.5	567.2	564.4	563.0	561.7	558.9	557.5	554.8	552.0	549.3	546.5
42.5°	568.5	567.2	565.8	564.4	563.0	561.7	558.9	556.1	553.4	549.3	545.1
45°	549.3	549.3	550.6	550.6	552.0	552.0	552.0	550.6	550.6	549.3	543.8
47.5°	513.5	513.5	517.6	517.6	520.4	523.1	523.1	525.9	530.0	532.7	534.1
50°	472.2	472.2	476.3	477.7	480.4	484.6	488.7	490.1	494.2	499.7	505.2
52.5°	430.9	430.9	435.0	435.0	437.8	441.9	446.0	447.4	452.9	458.4	465.3
55°	392.3	392.3	395.1	396.5	397.8	400.6	404.7	404.7	410.2	414.4	421.2
57.5°	357.9	360.7	360.7	360.7	362.0	364.8	367.6	367.6	371.7	375.8	381.3
60°	324.9	327.6	327.6	327.6	329.0	330.4	333.1	333.1	335.9	338.6	344.1
62.5°	294.6	297.3	297.3	298.7	298.7	300.1	302.9	301.5	304.2	305.6	309.7
65°	256.0	258.8	260.2	261.6	262.9	265.7	269.8	268.4	272.6	275.3	279.4
67.5°	218.9	221.6	221.6	223.0	224.4	227.1	229.9	229.9	234.0	236.8	242.3
70°	184.5	187.2	187.2	188.6	190.0	192.7	195.5	194.1	198.2	201.0	205.1
72.5°	152.8	155.6	155.6	156.9	156.9	159.7	162.4	165.2	165.2	167.9	170.7
75°	123.9	125.3	126.6	126.6	128.0	129.4	132.2	134.9	136.3	137.7	140.4
77.5°	97.7	99.1	100.5	100.5	101.9	103.2	104.6	110.1	112.9	114.3	114.3
80°	74.3	75.7	75.7	75.7	77.1	78.5	81.2	81.2	86.7	86.7	88.1
82.5°	52.3	53.7	53.7	53.7	55.1	57.8	59.2	60.6	63.3	64.7	64.7
85°	31.7	33.0	33.0	33.0	34.4	35.8	38.5	39.9	41.3	41.3	42.7
87.5°	12.4	13.8	15.1	15.1	16.5	17.9	19.3	20.6	22.0	22.0	23.4
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3094.6	3104.2	3094.6	3100.1	3107.0	3094.6	3065.7	3054.7	3050.5	3034.0	3023.0
5°	3266.7	3266.7	3262.5	3273.5	3272.2	3252.9	3222.6	3208.8	3195.1	3177.2	3163.4
7.5°	3144.1	3155.2	3162.0	3204.7	3232.3	3235.0	3254.3	3258.4	3263.9	3258.4	3250.1
10°	2967.9	2963.8	2983.1	3023.0	3046.4	3058.8	3096.0	3113.9	3129.0	3159.3	3191.0
12.5°	2868.8	2874.3	2882.6	2911.5	2933.5	2928.0	2943.2	2955.6	2973.5	3003.7	3049.2
15°	2802.8	2808.3	2816.5	2838.5	2852.3	2845.4	2853.7	2861.9	2874.3	2889.5	2917.0
17.5°	2731.2	2740.8	2750.4	2773.8	2786.2	2784.9	2791.7	2794.5	2798.6	2808.3	2827.5
20°	2619.7	2650.0	2669.2	2700.9	2718.8	2716.0	2728.4	2732.5	2738.1	2747.7	2755.9
22.5°	2517.8	2526.1	2535.7	2570.1	2600.4	2637.6	2645.8	2656.8	2670.6	2680.2	2688.5
25°	2460.0	2454.5	2458.6	2482.0	2498.5	2501.3	2513.7	2549.5	2586.6	2603.1	2622.4
27.5°	2425.6	2420.1	2418.7	2429.7	2432.4	2425.6	2422.8	2433.8	2461.4	2488.9	2546.7
30°	2388.4	2381.5	2376.0	2385.6	2389.8	2380.1	2362.2	2352.6	2369.1	2376.0	2399.4
32.5°	2344.3	2337.5	2334.7	2340.2	2343.0	2334.7	2315.4	2304.4	2301.7	2296.2	2301.7
35°	2294.8	2287.9	2283.8	2285.2	2290.7	2283.8	2267.3	2253.5	2246.6	2231.5	2220.5
37.5°	1182.5	1675.3	2175.0	2227.3	2232.8	2231.5	2214.9	2199.8	2192.9	2175.0	2169.5
40°	541.0	604.3	907.2	1185.3	1709.7	2172.3	2157.1	2142.0	2129.6	2124.1	2103.4
42.5°	539.6	541.0	542.4	535.5	663.5	1130.2	1668.4	2082.8	2074.5	2060.8	2045.6
45°	539.6	532.7	538.2	530.0	532.7	531.4	662.1	1068.2	1901.1	1986.4	1979.5
47.5°	534.1	530.0	535.5	528.6	520.4	524.5	519.0	525.9	820.5	1391.7	1906.6
50°	509.3	512.1	521.7	520.4	513.5	519.0	509.3	517.6	510.7	560.3	1079.3
52.5°	472.2	477.7	487.3	495.6	498.3	505.2	502.5	505.2	499.7	501.1	502.5
55°	428.1	435.0	443.3	455.7	461.2	472.2	480.4	484.6	491.4	490.1	479.1
57.5°	386.8	393.7	400.6	413.0	425.4	430.9	446.0	454.3	472.2	468.0	465.3
60°	348.3	353.8	360.7	363.4	378.6	388.2	402.0	410.2	433.6	439.1	447.4
62.5°	313.9	316.6	322.1	326.3	335.9	345.5	352.4	366.2	378.6	396.5	408.8
65°	282.2	285.0	289.1	291.8	293.2	307.0	311.1	326.3	330.4	349.7	360.7
67.5°	246.4	251.9	257.4	260.2	262.9	271.2	273.9	280.8	290.5	298.7	312.5
70°	209.2	213.4	218.9	223.0	228.5	234.0	242.3	246.4	253.3	258.8	269.8
72.5°	174.8	179.0	181.7	185.8	190.0	194.1	201.0	210.6	216.1	225.8	228.5
75°	141.8	145.9	148.7	151.4	155.6	158.3	161.1	170.7	176.2	184.5	192.7
77.5°	117.0	117.0	119.8	128.0	126.6	126.6	129.4	134.9	139.0	144.5	152.8
80°	90.9	92.2	93.6	100.5	101.9	103.2	101.9	106.0	110.1	111.5	117.0
82.5°	67.5	68.8	68.8	73.0	77.1	77.1	77.1	78.5	82.6	84.0	86.7
85°	45.4	46.8	48.2	49.6	52.3	53.7	55.1	55.1	57.8	59.2	60.6
87.5°	24.8	27.5	28.9	30.3	31.7	33.0	34.4	35.8	37.2	38.5	39.9
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3018.9	3012.0	3007.9	2996.9	2994.1	2976.2	2979.0	2976.2	2976.2	2980.3	2994.1
5°	3148.3	3115.2	3107.0	3083.6	3064.3	3031.3	3010.6	2999.6	2983.1	2976.2	2985.8
7.5°	3236.4	3211.6	3191.0	3170.3	3142.8	3104.2	3075.3	3042.3	3014.7	2988.6	2981.7
10°	3221.2	3248.8	3248.8	3236.4	3210.2	3171.7	3137.3	3096.0	3047.8	3006.5	2981.7
12.5°	3093.2	3141.4	3179.9	3208.8	3235.0	3208.8	3174.4	3141.4	3087.7	3027.1	2981.7
15°	2952.8	3002.4	3050.5	3111.1	3174.4	3200.6	3199.2	3160.7	3112.5	3049.2	2985.8
17.5°	2853.7	2888.1	2914.3	2980.3	3057.4	3124.9	3170.3	3173.1	3126.3	3069.8	2987.2
20°	2779.4	2804.1	2826.2	2863.3	2930.8	3013.4	3097.3	3144.1	3135.9	3073.9	2991.3
22.5°	2711.9	2729.8	2747.7	2775.2	2828.9	2882.6	2980.3	3076.7	3118.0	3067.1	2987.2
25°	2644.4	2663.7	2677.5	2696.8	2739.4	2783.5	2852.3	2972.1	3064.3	3061.6	2979.0
27.5°	2564.6	2590.8	2607.3	2633.4	2662.3	2695.4	2742.2	2855.1	2987.2	3034.0	2956.9
30°	2468.2	2506.8	2531.6	2560.5	2585.3	2614.2	2651.3	2720.2	2884.0	2980.3	2933.5
32.5°	2329.2	2398.0	2453.1	2480.6	2508.2	2532.9	2566.0	2623.8	2757.3	2907.4	2907.4
35°	2230.1	2261.8	2311.3	2391.2	2425.6	2450.3	2480.6	2526.1	2611.4	2820.6	2864.7
37.5°	2153.0	2165.4	2190.2	2268.6	2333.3	2373.3	2403.5	2432.4	2516.4	2702.3	2809.6
40°	2095.2	2091.1	2088.3	2125.5	2217.7	2281.0	2315.4	2344.3	2409.0	2560.5	2736.7
42.5°	2027.7	2023.6	2009.8	2019.5	2064.9	2170.9	2223.2	2254.9	2308.6	2411.8	2656.8
45°	1957.5	1950.6	1945.1	1935.5	1952.0	2011.2	2118.6	2165.4	2195.7	2287.9	2556.3
47.5°	1885.9	1876.3	1869.4	1861.2	1851.5	1879.1	1980.9	2064.9	2117.2	2175.0	2435.2
50°	1784.1	1796.5	1788.2	1778.6	1770.3	1764.8	1807.5	1945.1	2009.8	2056.6	2287.9
52.5°	841.1	1635.4	1704.2	1694.6	1683.6	1673.9	1683.6	1788.2	1905.2	1942.4	2110.3
55°	479.1	728.2	1515.6	1602.4	1592.7	1579.0	1570.7	1606.5	1781.3	1830.9	1947.9
57.5°	461.2	462.5	669.0	1444.1	1497.7	1485.3	1475.7	1484.0	1632.6	1716.6	1806.1
60°	446.0	446.0	446.0	638.7	1380.7	1384.9	1372.5	1358.7	1423.4	1588.6	1662.9
62.5°	413.0	421.2	425.4	425.4	630.5	1278.9	1266.5	1262.3	1265.1	1434.4	1519.8
65°	370.3	389.6	397.8	403.3	403.3	662.1	1157.7	1150.8	1141.2	1205.9	1375.2
67.5°	323.5	342.8	360.7	371.7	373.1	385.4	691.1	1036.6	1022.8	1024.2	1221.0
70°	275.3	291.8	311.1	327.6	342.8	349.7	360.7	860.4	905.8	886.5	1046.2
72.5°	238.2	245.0	258.8	275.3	293.2	309.7	319.4	342.8	786.0	765.4	795.7
75°	198.2	203.7	213.4	224.4	238.2	257.4	273.9	290.5	417.1	641.5	637.4
77.5°	154.2	163.8	174.8	181.7	188.6	202.4	224.4	240.9	257.4	433.6	510.7
80°	118.4	125.3	130.8	137.7	145.9	155.6	163.8	183.1	202.4	217.5	391.0
82.5°	88.1	92.2	96.4	99.1	101.9	107.4	122.5	129.4	141.8	155.6	184.5
85°	61.9	64.7	67.5	68.8	70.2	71.6	77.1	78.5	90.9	93.6	111.5
87.5°	39.9	41.3	44.1	45.4	45.4	46.8	48.2	48.2	48.2	45.4	55.1
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	3003.7	3003.7
2.5°	3005.1	3027.1
5°	3001.0	3029.9
7.5°	2990.0	3017.5
10°	2973.5	3006.5
12.5°	2955.6	2987.2
15°	2940.4	2963.8
17.5°	2923.9	2937.7
20°	2901.9	2912.9
22.5°	2879.8	2874.3
25°	2855.1	2842.7
27.5°	2823.4	2800.0
30°	2794.5	2753.2
32.5°	2767.0	2699.5
35°	2729.8	2644.4
37.5°	2691.2	2588.0
40°	2645.8	2523.3
42.5°	2597.6	2458.6
45°	2537.1	2396.7
47.5°	2483.4	2322.3
50°	2409.0	2242.5
52.5°	2318.2	2168.1
55°	2210.8	2077.3
57.5°	2095.2	1982.3
60°	1971.3	1873.5
62.5°	1821.2	1760.7
65°	1645.0	1631.3
67.5°	1415.1	1488.1
70°	1160.5	1324.3
72.5°	970.5	1150.8
75°	795.7	956.7
77.5°	630.5	750.2
80°	393.7	549.3
82.5°	264.3	360.7
85°	159.7	172.1
87.5°	61.9	63.3
90°	0.0	0.0

(END OF REPORT)