

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: **4SNLED-LD5-84SL-RW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

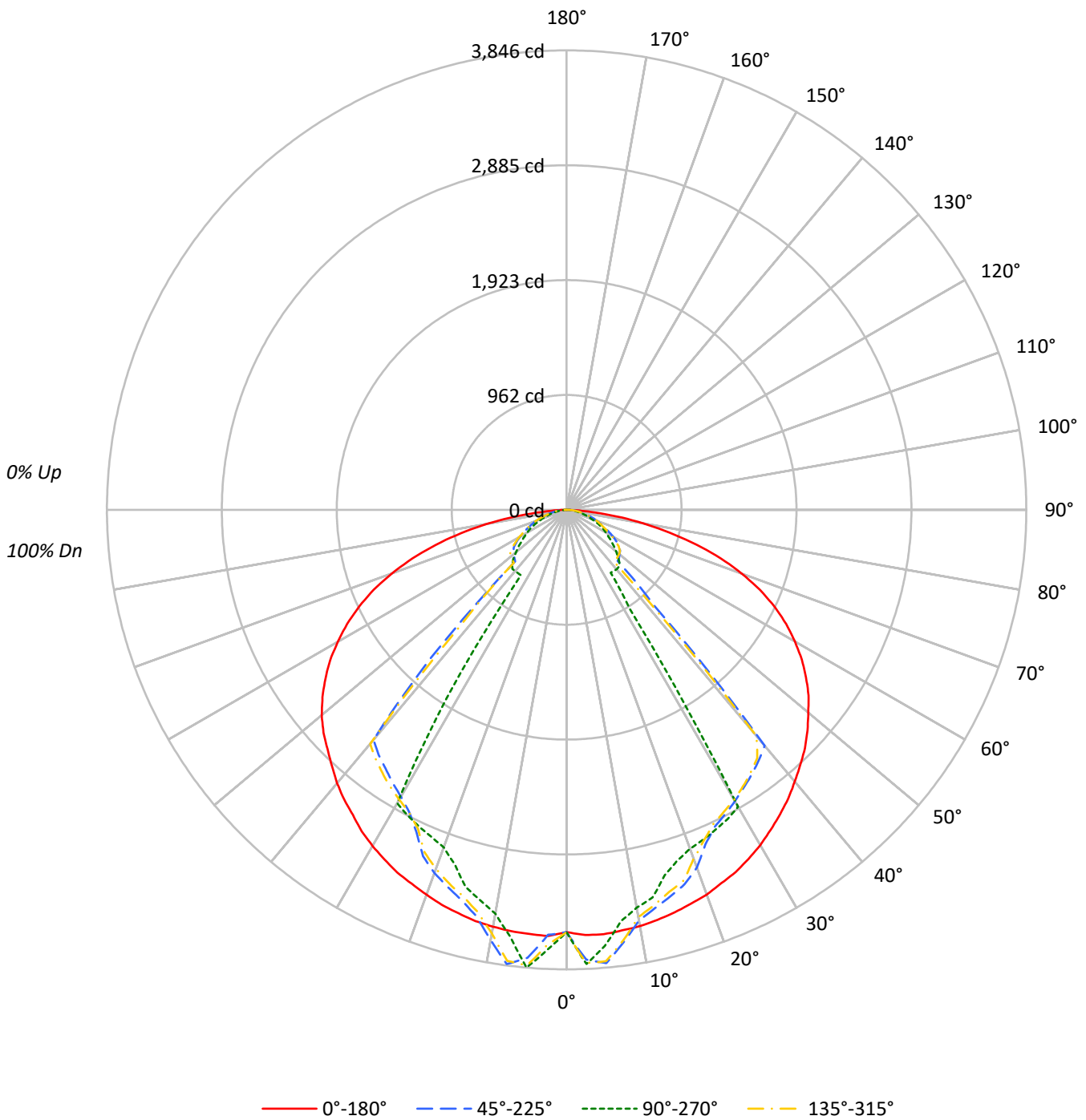
Lumens per Lamp: N/A  
Luminaire Lumens: 7078.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 85  
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°	28563	28563	28563	28563
5°	28842	28778	28830	30203
10°	28871	26019	28911	26417
15°	28935	24073	29002	24836
20°	29145	22832	29145	22747
25°	29397	22396	29440	22187
30°	29695	22001	29770	21740
35°	30041	5011	30104	5226
40°	30522	5211	30706	5380
45°	31253	5182	31361	5370
50°	31983	4685	32415	4812
55°	32967	4160	33229	4219
60°	33803	3696	33876	3744
65°	34400	3226	34312	3175
70°	33907	2600	33803	2505
75°	31479	2001	31706	1917
80°	25549	1422	26573	1301
85°	13834	852	14606	654



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.8	4.9
10°-20°	956.2	13.5
20°-30°	1416.3	20.0
30°-40°	1427.0	20.2
40°-50°	1114.7	15.7
50°-60°	861.0	12.2
60°-70°	578.1	8.2
70°-80°	294.9	4.2
80°-90°	82.0	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°	2720.2	38.4
0°-40°	4147.2	58.6
0°-60°	6123.0	86.5
0°-90°	7078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3535	3535	3535	3535	3535	
5°	3565	3664	3564	3846	3565	339
15°	3488	3167	3496	3267	3488	986
25°	3345	2951	3350	2924	3345	1543
35°	3112	642	3118	669	3112	1950
45°	2820	624	2830	646	2820	2175
55°	2444	454	2464	460	2444	2183
65°	1920	304	1915	300	1920	1888
75°	1126	154	1134	147	1126	1177
85°	202	49	214	37	202	279
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°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3562.1	3575.1	3584.8	3591.3	3594.5	3594.5	3596.1	3597.7	3618.8	3628.5	3635.0
5°	3565.3	3578.3	3597.7	3623.7	3646.3	3665.8	3682.0	3704.7	3727.3	3751.6	3759.7
7.5°	3550.8	3567.0	3605.8	3652.8	3696.6	3727.3	3748.4	3763.0	3774.3	3775.9	3784.0
10°	3537.8	3567.0	3620.4	3682.0	3737.1	3774.3	3774.3	3766.2	3777.6	3733.8	3690.1
12.5°	3515.1	3547.5	3620.4	3701.4	3753.3	3767.8	3761.4	3729.0	3662.5	3609.1	3584.8
15°	3487.6	3531.3	3622.0	3712.8	3756.5	3761.4	3699.8	3617.2	3567.0	3534.6	3494.1
17.5°	3456.8	3515.1	3623.7	3714.4	3730.6	3707.9	3591.3	3539.4	3487.6	3411.5	3356.4
20°	3427.7	3484.4	3610.7	3691.7	3701.4	3599.4	3508.7	3453.6	3366.1	3299.7	3275.4
22.5°	3382.3	3448.7	3599.4	3660.9	3623.7	3505.4	3417.9	3330.5	3251.1	3231.7	3202.5
25°	3345.0	3414.7	3573.4	3623.7	3524.9	3419.6	3317.5	3215.5	3178.2	3150.7	3124.7
27.5°	3294.8	3380.7	3539.4	3555.6	3419.6	3327.2	3178.2	3132.8	3098.8	3068.0	3056.7
30°	3239.8	3345.0	3492.5	3461.7	3332.1	3196.0	3085.9	3043.7	3019.5	2987.1	2974.1
32.5°	3176.6	3291.6	3440.6	3353.1	3238.1	3068.0	2996.8	2964.4	2932.0	2907.7	2826.7
35°	3111.8	3244.6	3379.1	3249.5	3124.7	2970.9	2907.7	2878.5	2847.7	2758.7	2674.4
37.5°	3045.4	3192.8	3304.5	3137.7	2974.1	2870.4	2817.0	2784.6	2714.9	2601.5	2559.4
40°	2969.2	3129.6	3209.0	3022.7	2842.9	2768.4	2718.2	2685.8	2528.6	2478.4	2465.5
42.5°	2893.1	3068.0	3092.3	2910.9	2734.4	2659.8	2617.7	2510.8	2403.9	2378.0	2382.8
45°	2820.2	3001.6	2964.4	2752.2	2621.0	2559.4	2488.1	2340.7	2284.0	2297.0	2300.2
47.5°	2732.7	2922.3	2829.9	2593.4	2504.3	2442.8	2284.0	2194.9	2186.8	2204.7	2214.4
50°	2638.8	2833.2	2687.4	2449.3	2378.0	2305.1	2125.3	2079.9	2089.6	2107.5	2118.8
52.5°	2551.3	2732.7	2540.0	2314.8	2253.2	2086.4	1964.9	1973.0	1989.2	2010.3	2016.7
55°	2444.4	2611.2	2382.8	2178.7	2120.4	1901.7	1846.7	1866.1	1882.3	1900.1	1913.1
57.5°	2332.6	2471.9	2196.6	2026.5	1932.5	1738.1	1743.0	1755.9	1767.3	1788.3	738.7
60°	2204.7	2313.2	1992.4	1885.5	1699.3	1608.5	1613.4	1636.1	1647.4	920.1	508.6
62.5°	2071.8	2128.5	1807.8	1725.2	1485.4	1478.9	1501.6	1511.3	1028.6	486.0	476.2
65°	1919.6	1908.2	1626.4	1495.1	1339.6	1346.1	1370.4	1321.8	455.2	455.2	451.9
67.5°	1751.1	1683.1	1449.8	1237.6	1198.7	1213.3	1239.2	432.5	421.2	424.4	413.1
70°	1558.3	1462.7	1266.7	1048.1	1061.0	1075.6	417.9	392.0	387.2	379.1	356.4
72.5°	1354.2	1223.0	1036.7	910.4	918.5	576.7	366.1	353.1	336.9	320.7	296.4
75°	1125.8	955.7	761.3	761.3	772.7	328.8	319.1	298.1	280.2	259.2	244.6
77.5°	882.8	735.4	591.3	613.9	299.7	275.4	257.6	234.9	220.3	207.3	199.2
80°	646.3	513.5	445.5	398.5	233.3	209.0	191.1	178.2	171.7	163.6	153.9
82.5°	424.4	309.4	309.4	187.9	163.6	144.2	139.3	129.6	123.1	118.3	113.4
85°	202.5	179.8	136.1	115.0	102.1	92.3	89.1	84.2	84.2	82.6	81.0
87.5°	74.5	81.0	59.9	58.3	55.1	53.5	55.1	55.1	56.7	55.1	53.5
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°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3651.2	3664.2	3673.9	3690.1	3711.1	3729.0	3745.2	3767.8	3803.5	3813.2	3821.3
5°	3759.7	3764.6	3775.9	3788.9	3792.1	3800.2	3798.6	3808.3	3813.2	3824.5	3800.2
7.5°	3766.2	3740.3	3709.5	3682.0	3662.5	3644.7	3633.4	3651.2	3660.9	3669.0	3644.7
10°	3630.1	3599.4	3581.5	3565.3	3545.9	3518.4	3481.1	3489.2	3486.0	3486.0	3477.9
12.5°	3544.3	3500.6	3455.2	3414.7	3396.9	3395.3	3396.9	3414.7	3414.7	3413.1	3403.4
15°	3409.8	3367.7	3345.0	3335.3	3335.3	3330.5	3330.5	3349.9	3345.0	3345.0	3340.2
17.5°	3320.7	3291.6	3275.4	3264.1	3259.2	3267.3	3277.0	3285.1	3286.7	3280.3	3254.3
20°	3247.9	3220.3	3200.9	3204.1	3202.5	3207.4	3212.2	3184.7	3150.7	3105.3	3084.2
22.5°	3171.7	3150.7	3136.1	3136.1	3116.6	3085.9	3040.5	3030.8	3025.9	3004.9	2987.1
25°	3098.8	3074.5	3053.5	2988.7	2948.2	2953.0	2944.9	2928.7	2927.1	2925.5	2932.0
27.5°	3025.9	2962.8	2881.8	2872.0	2855.8	2854.2	2863.9	2872.0	2872.0	2878.5	2886.6
30°	2875.3	2802.4	2787.8	2770.0	2776.5	2799.1	2804.0	2815.3	2818.6	2829.9	2836.4
32.5°	2737.6	2705.2	2692.2	2700.3	2721.4	2740.8	2752.2	2757.0	2765.1	2774.8	2782.9
35°	2625.8	2616.1	2627.4	2645.3	2666.3	2682.5	2692.2	2702.0	2710.1	2718.2	2724.6
37.5°	2543.2	2549.7	2565.9	2588.6	2609.6	2622.6	2630.7	2642.0	2653.4	2663.1	2624.2
40°	2465.5	2481.7	2499.5	2523.8	2541.6	2554.5	2562.6	2577.2	2480.0	1122.6	615.6
42.5°	2397.4	2415.2	2428.2	2447.6	2467.1	2476.8	2405.5	1074.0	607.5	604.2	612.3
45°	2314.8	2329.4	2350.4	2365.0	2382.8	1564.8	597.7	604.2	594.5	601.0	604.2
47.5°	2230.6	2253.2	2264.6	2160.9	643.1	594.5	588.0	594.5	588.0	596.1	591.3
50°	2135.0	2162.5	1538.9	581.5	576.7	573.4	579.9	576.7	581.5	588.0	575.1
52.5°	2037.8	1261.9	563.7	560.5	563.7	560.5	571.8	563.7	565.3	558.9	542.7
55°	690.1	545.9	541.0	539.4	549.1	549.1	549.1	536.2	528.1	511.9	500.5
57.5°	528.1	528.1	526.5	528.1	524.8	521.6	507.0	495.7	484.3	461.7	455.2
60°	500.5	500.5	500.5	500.5	486.0	479.5	456.8	447.1	427.6	416.3	409.8
62.5°	477.9	474.6	460.0	455.2	439.0	421.2	408.2	398.5	379.1	372.6	367.7
65°	445.5	434.1	416.3	396.9	388.8	369.3	362.9	348.3	338.6	333.7	330.5
67.5°	392.0	375.8	361.2	348.3	333.7	327.2	319.1	307.8	301.3	298.1	294.8
70°	335.3	324.0	309.4	301.3	291.6	286.7	275.4	272.1	267.3	262.4	257.6
72.5°	280.2	273.8	267.3	255.9	252.7	249.5	238.1	231.6	225.2	218.7	215.4
75°	234.9	230.0	226.8	217.1	212.2	202.5	194.4	189.5	184.7	179.8	176.6
77.5°	192.8	189.5	179.8	173.3	170.1	162.0	158.7	160.4	157.1	150.6	147.4
80°	150.6	147.4	139.3	139.3	136.1	132.8	129.6	126.4	123.1	118.3	115.0
82.5°	115.0	111.8	108.5	105.3	102.1	100.4	98.8	95.6	92.3	89.1	87.5
85°	81.0	79.4	77.8	76.1	74.5	72.9	71.3	68.0	64.8	63.2	61.6
87.5°	55.1	53.5	51.8	50.2	48.6	47.0	45.4	43.7	40.5	38.9	37.3
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°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3821.3	3829.4	3821.3	3803.5	3792.1	3787.3	3797.0	3797.0	3803.5	3811.6	3813.2
5°	3761.4	3741.9	3719.2	3696.6	3685.2	3678.7	3660.9	3664.2	3669.0	3672.3	3675.5
7.5°	3612.3	3586.4	3555.6	3526.5	3515.1	3505.4	3484.4	3484.4	3484.4	3486.0	3495.7
10°	3460.1	3448.7	3435.8	3416.3	3401.7	3396.9	3379.1	3383.9	3380.7	3385.5	3396.9
12.5°	3388.8	3375.8	3364.5	3345.0	3328.8	3322.4	3314.3	3319.1	3317.5	3325.6	3335.3
15°	3324.0	3317.5	3304.5	3290.0	3275.4	3262.4	3233.3	3223.6	3217.1	3209.0	3220.3
17.5°	3217.1	3171.7	3140.9	3118.3	3102.1	3090.7	3082.6	3082.6	3087.5	3092.3	3102.1
20°	3071.3	3058.3	3043.7	3019.5	3003.3	2996.8	2991.9	2991.9	3000.0	3006.5	3024.3
22.5°	2970.9	2969.2	2964.4	2953.0	2944.9	2944.9	2946.6	2949.8	2961.1	2970.9	2988.7
25°	2923.9	2930.4	2927.1	2920.6	2915.8	2917.4	2914.2	2917.4	2928.7	2938.5	2953.0
27.5°	2886.6	2896.3	2893.1	2883.4	2875.3	2878.5	2883.4	2880.1	2889.9	2901.2	2912.5
30°	2836.4	2838.0	2844.5	2833.2	2829.9	2834.8	2836.4	2839.6	2849.4	2857.5	2867.2
32.5°	2779.7	2792.7	2791.0	2779.7	2779.7	2784.6	2786.2	2677.7	2475.2	2131.8	2037.8
35°	2724.6	2739.2	2714.9	2288.9	1584.2	845.6	652.8	630.1	635.0	638.2	641.5
37.5°	2015.1	955.7	609.1	613.9	618.8	623.7	628.5	633.4	638.2	643.1	644.7
40°	605.8	604.2	609.1	615.6	620.4	623.7	630.1	635.0	639.9	644.7	646.3
42.5°	599.4	602.6	607.5	613.9	620.4	626.9	631.8	638.2	641.5	644.7	646.3
45°	596.1	602.6	609.1	613.9	618.8	622.0	625.3	626.9	625.3	625.3	628.5
47.5°	591.3	597.7	599.4	597.7	599.4	597.7	597.7	597.7	592.9	591.3	591.3
50°	573.4	573.4	570.2	563.7	562.1	560.5	557.2	555.6	549.1	547.5	547.5
52.5°	536.2	534.6	529.7	521.6	518.4	515.1	513.5	511.9	505.4	502.2	503.8
55°	492.4	489.2	484.3	474.6	473.0	469.8	468.1	466.5	460.0	463.3	458.4
57.5°	451.9	445.5	439.0	437.4	430.9	429.3	427.6	426.0	421.2	422.8	419.5
60°	403.3	401.7	398.5	392.0	392.0	390.4	390.4	387.2	383.9	382.3	382.3
62.5°	367.7	362.9	359.6	359.6	354.8	354.8	354.8	351.5	348.3	349.9	348.3
65°	328.8	327.2	325.6	322.4	322.4	320.7	320.7	317.5	312.6	314.3	311.0
67.5°	296.4	293.2	290.0	288.3	281.9	278.6	277.0	275.4	268.9	270.5	267.3
70°	255.9	251.1	247.8	244.6	239.7	236.5	236.5	233.3	228.4	230.0	226.8
72.5°	213.8	210.6	207.3	205.7	200.9	199.2	197.6	196.0	191.1	192.8	191.1
75°	178.2	178.2	176.6	174.9	170.1	165.2	162.0	160.4	157.1	158.7	155.5
77.5°	147.4	144.2	140.9	140.9	136.1	132.8	129.6	129.6	129.6	128.0	126.4
80°	115.0	111.8	111.8	110.2	106.9	103.7	102.1	102.1	100.4	100.4	98.8
82.5°	87.5	84.2	82.6	82.6	79.4	77.8	76.1	74.5	74.5	74.5	72.9
85°	61.6	58.3	56.7	56.7	53.5	51.8	51.8	50.2	50.2	48.6	48.6
87.5°	37.3	35.6	34.0	34.0	30.8	29.2	29.2	29.2	27.5	27.5	25.9
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3813.2	3813.2	3801.9	3805.1	3800.2	3806.7	3798.6	3798.6	3808.3	3808.3	3814.8
5°	3677.1	3669.0	3667.4	3664.2	3648.0	3654.4	3646.3	3638.2	3649.6	3649.6	3664.2
7.5°	3490.8	3476.3	3482.7	3473.0	3463.3	3448.7	3453.6	3447.1	3455.2	3466.5	3481.1
10°	3395.3	3382.3	3390.4	3380.7	3385.5	3364.5	3366.1	3367.7	3375.8	3379.1	3392.0
12.5°	3333.7	3330.5	3327.2	3324.0	3327.2	3315.9	3309.4	3311.0	3314.3	3315.9	3325.6
15°	3204.1	3183.1	3189.5	3166.9	3168.5	3170.1	3157.1	3170.1	3168.5	3189.5	3209.0
17.5°	3098.8	3098.8	3087.5	3077.8	3071.3	3069.7	3059.9	3066.4	3059.9	3072.9	3077.8
20°	3025.9	3024.3	3022.7	3017.8	3001.6	3003.3	3008.1	2993.5	2991.9	2990.3	3000.0
22.5°	2991.9	2993.5	2987.1	2987.1	2972.5	2975.7	2977.3	2961.1	2962.8	2957.9	2962.8
25°	2956.3	2959.5	2951.4	2951.4	2948.2	2946.6	2938.5	2941.7	2932.0	2923.9	2932.0
27.5°	2914.2	2920.6	2914.2	2917.4	2910.9	2907.7	2902.8	2899.6	2889.9	2888.2	2893.1
30°	2875.3	2878.5	2876.9	2868.8	2867.2	2857.5	2862.3	2852.6	2842.9	2844.5	2847.7
32.5°	1474.1	1407.7	1085.3	980.0	970.3	1005.9	1192.2	1451.4	1880.7	2297.0	2596.7
35°	643.1	643.1	643.1	641.5	641.5	639.9	638.2	636.6	635.0	633.4	631.8
37.5°	646.3	646.3	646.3	646.3	644.7	643.1	643.1	639.9	638.2	636.6	635.0
40°	648.0	649.6	649.6	649.6	648.0	648.0	646.3	643.1	641.5	638.2	635.0
42.5°	646.3	648.0	648.0	646.3	646.3	644.7	644.7	643.1	641.5	639.9	638.2
45°	625.3	626.9	623.7	623.7	622.0	622.0	622.0	622.0	622.0	623.7	623.7
47.5°	588.0	588.0	586.4	584.8	584.8	583.2	584.8	583.2	586.4	588.0	591.3
50°	544.3	544.3	541.0	539.4	539.4	539.4	539.4	541.0	542.7	545.9	549.1
52.5°	498.9	498.9	497.3	495.7	494.1	494.1	498.9	497.3	498.9	500.5	505.4
55°	455.2	456.8	453.6	453.6	451.9	451.9	451.9	453.6	455.2	456.8	461.7
57.5°	417.9	417.9	414.7	414.7	414.7	413.1	417.9	414.7	416.3	417.9	421.2
60°	380.7	379.1	379.1	377.4	377.4	377.4	380.7	379.1	379.1	380.7	383.9
62.5°	346.7	346.7	345.0	345.0	343.4	343.4	346.7	345.0	345.0	346.7	348.3
65°	307.8	307.8	306.2	304.5	309.4	304.5	309.4	306.2	309.4	311.0	314.3
67.5°	264.0	264.0	264.0	262.4	262.4	265.7	267.3	264.0	265.7	268.9	270.5
70°	225.2	225.2	223.5	223.5	223.5	226.8	228.4	225.2	226.8	228.4	231.6
72.5°	191.1	187.9	187.9	186.3	189.5	189.5	191.1	189.5	191.1	191.1	194.4
75°	157.1	153.9	153.9	153.9	157.1	155.5	157.1	155.5	157.1	157.1	158.7
77.5°	126.4	124.7	123.1	123.1	126.4	126.4	126.4	124.7	126.4	128.0	129.6
80°	98.8	97.2	95.6	95.6	98.8	98.8	98.8	100.4	98.8	100.4	102.1
82.5°	72.9	71.3	69.7	72.9	72.9	72.9	72.9	74.5	72.9	74.5	76.1
85°	48.6	47.0	45.4	48.6	48.6	48.6	48.6	50.2	48.6	50.2	51.8
87.5°	25.9	24.3	24.3	25.9	25.9	25.9	27.5	27.5	27.5	29.2	29.2
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3824.5	3829.4	3827.8	3818.0	3808.3	3797.0	3788.9	3790.5	3806.7	3811.6	3797.0
5°	3664.2	3694.9	3694.9	3716.0	3704.7	3694.9	3701.4	3737.1	3754.9	3782.4	3792.1
7.5°	3498.9	3513.5	3511.9	3533.0	3529.7	3529.7	3534.6	3581.5	3604.2	3626.9	3633.4
10°	3406.6	3421.2	3419.6	3421.2	3416.3	3405.0	3405.0	3426.0	3445.5	3456.8	3460.1
12.5°	3340.2	3348.3	3346.7	3346.7	3343.4	3333.7	3332.1	3349.9	3371.0	3385.5	3387.2
15°	3241.4	3264.1	3268.9	3290.0	3285.1	3272.2	3275.4	3290.0	3302.9	3315.9	3311.0
17.5°	3094.0	3105.3	3106.9	3115.0	3111.8	3111.8	3131.2	3184.7	3220.3	3251.1	3254.3
20°	3009.7	3017.8	3014.6	3032.4	3024.3	3022.7	3027.5	3050.2	3066.4	3081.0	3106.9
22.5°	2969.2	2975.7	2970.9	2972.5	2957.9	2944.9	2941.7	2959.5	2977.3	2996.8	2996.8
25°	2935.2	2940.1	2938.5	2935.2	2923.9	2906.1	2902.8	2906.1	2912.5	2914.2	2902.8
27.5°	2894.7	2898.0	2898.0	2899.6	2885.0	2868.8	2865.6	2862.3	2868.8	2867.2	2849.4
30°	2852.6	2847.7	2849.4	2851.0	2838.0	2823.4	2817.0	2815.3	2821.8	2820.2	2802.4
32.5°	2752.2	2789.4	2792.7	2795.9	2784.6	2771.6	2765.1	2760.3	2763.5	2761.9	2745.7
35°	630.1	641.5	785.6	1778.6	2415.2	2674.4	2702.0	2695.5	2697.1	2697.1	2684.1
37.5°	631.8	630.1	628.5	623.7	618.8	615.6	1064.3	2269.4	2629.1	2630.7	2619.3
40°	631.8	630.1	628.5	625.3	618.8	613.9	605.8	599.4	613.9	1351.0	2471.9
42.5°	635.0	631.8	628.5	625.3	618.8	612.3	605.8	597.7	602.6	599.4	591.3
45°	625.3	623.7	623.7	622.0	618.8	612.3	604.2	594.5	589.6	594.5	586.4
47.5°	594.5	596.1	601.0	602.6	602.6	604.2	599.4	592.9	584.8	589.6	579.9
50°	552.4	555.6	557.2	565.3	568.6	575.1	576.7	576.7	575.1	581.5	575.1
52.5°	507.0	510.3	518.4	521.6	524.8	534.6	537.8	542.7	545.9	555.6	562.1
55°	463.3	464.9	468.1	474.6	479.5	487.6	492.4	497.3	505.4	510.3	529.7
57.5°	422.8	424.4	430.9	432.5	435.7	442.2	447.1	453.6	460.0	463.3	486.0
60°	383.9	385.5	390.4	392.0	393.6	400.1	405.0	409.8	414.7	417.9	434.1
62.5°	349.9	349.9	354.8	354.8	356.4	361.2	364.5	367.7	372.6	374.2	382.3
65°	315.9	317.5	320.7	320.7	322.4	325.6	327.2	328.8	333.7	333.7	340.2
67.5°	273.8	275.4	280.2	283.5	285.1	291.6	293.2	294.8	298.1	299.7	302.9
70°	233.3	234.9	239.7	241.4	243.0	247.8	251.1	255.9	260.8	265.7	268.9
72.5°	196.0	197.6	202.5	202.5	207.3	209.0	212.2	213.8	218.7	221.9	226.8
75°	160.4	162.0	166.8	166.8	171.7	173.3	174.9	176.6	179.8	183.0	186.3
77.5°	131.2	131.2	137.7	140.9	144.2	144.2	145.8	145.8	145.8	147.4	150.6
80°	103.7	103.7	108.5	111.8	115.0	115.0	116.6	118.3	119.9	119.9	121.5
82.5°	77.8	77.8	82.6	84.2	87.5	87.5	87.5	89.1	90.7	89.1	92.3
85°	53.5	53.5	56.7	58.3	61.6	61.6	61.6	63.2	64.8	63.2	64.8
87.5°	30.8	32.4	34.0	35.6	37.3	38.9	38.9	38.9	40.5	40.5	42.1
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3780.8	3761.4	3759.7	3737.1	3730.6	3732.2	3714.4	3707.9	3678.7	3672.3	3641.5
5°	3795.4	3805.1	3800.2	3798.6	3803.5	3800.2	3787.3	3780.8	3775.9	3763.0	3737.1
7.5°	3635.0	3641.5	3646.3	3667.4	3685.2	3716.0	3748.4	3769.5	3785.7	3788.9	3767.8
10°	3471.4	3502.2	3523.2	3555.6	3581.5	3599.4	3618.8	3636.6	3683.6	3730.6	3758.1
12.5°	3387.2	3395.3	3393.6	3411.5	3429.3	3476.3	3521.6	3547.5	3583.2	3604.2	3654.4
15°	3315.9	3317.5	3322.4	3335.3	3345.0	3361.2	3382.3	3421.2	3492.5	3524.9	3552.4
17.5°	3251.1	3251.1	3254.3	3265.7	3278.6	3293.2	3306.2	3322.4	3358.0	3411.5	3479.5
20°	3147.4	3192.8	3197.6	3196.0	3202.5	3230.0	3233.3	3262.4	3280.3	3301.3	3367.7
22.5°	2993.5	3021.1	3059.9	3119.9	3142.6	3155.5	3165.2	3178.2	3205.7	3230.0	3257.6
25°	2909.3	2927.1	2938.5	2956.3	3003.3	3079.4	3094.0	3108.5	3126.4	3144.2	3178.2
27.5°	2834.8	2833.2	2841.3	2857.5	2870.4	2910.9	2982.2	3038.9	3042.1	3068.0	3097.2
30°	2781.3	2771.6	2760.3	2757.0	2774.8	2795.9	2817.0	2906.1	2967.6	2980.6	3011.4
32.5°	2731.1	2714.9	2698.7	2685.8	2674.4	2692.2	2705.2	2744.1	2823.4	2898.0	2914.2
35°	2669.6	2653.4	2633.9	2619.3	2601.5	2599.9	2598.3	2635.5	2661.5	2750.6	2828.3
37.5°	2606.4	2588.6	2572.4	2556.2	2538.3	2525.4	2517.3	2527.0	2551.3	2590.2	2719.8
40°	2540.0	2518.9	2502.7	2489.8	2465.5	2455.7	2439.5	2433.1	2434.7	2468.7	2536.7
42.5°	1517.8	2420.1	2428.2	2413.6	2392.6	2379.6	2361.8	2353.7	2337.5	2353.7	2392.6
45°	584.8	591.3	1770.5	2339.1	2313.2	2297.0	2280.8	2272.7	2254.9	2241.9	2277.5
47.5°	573.4	579.9	567.0	803.5	2207.9	2212.8	2193.3	2185.2	2167.4	2157.7	2148.0
50°	565.3	570.2	560.5	563.7	552.4	2023.2	2104.2	2094.5	2075.1	2063.7	2044.3
52.5°	557.2	557.2	550.8	542.7	539.4	541.0	1702.5	2002.2	1979.5	1968.2	1942.2
55°	531.3	534.6	541.0	528.1	524.8	523.2	518.4	1621.5	1874.2	1861.2	1838.6
57.5°	492.4	498.9	516.7	513.5	513.5	500.5	497.3	497.3	1504.9	1752.7	1730.0
60°	447.1	453.6	473.0	479.5	484.3	481.1	477.9	476.2	469.8	1585.9	1615.0
62.5°	400.1	406.6	413.1	434.1	440.6	448.7	458.4	453.6	447.1	447.1	1493.5
65°	349.9	359.6	362.9	382.3	390.4	405.0	413.1	424.4	421.2	419.5	427.6
67.5°	306.2	317.5	319.1	327.2	341.8	348.3	358.0	379.1	388.8	392.0	395.2
70°	268.9	275.4	280.2	283.5	293.2	294.8	312.6	327.2	341.8	358.0	362.9
72.5°	231.6	236.5	246.2	243.0	246.2	252.7	262.4	272.1	286.7	309.4	324.0
75°	189.5	192.8	199.2	202.5	209.0	213.8	220.3	228.4	241.4	252.7	272.1
77.5°	152.3	153.9	158.7	160.4	166.8	171.7	183.0	187.9	196.0	204.1	215.4
80°	123.1	123.1	124.7	124.7	129.6	134.4	142.5	147.4	157.1	163.6	163.6
82.5°	94.0	94.0	98.8	98.8	102.1	102.1	106.9	106.9	111.8	115.0	118.3
85°	66.4	68.0	71.3	69.7	72.9	71.3	74.5	77.8	79.4	77.8	76.1
87.5°	43.7	43.7	47.0	45.4	47.0	47.0	50.2	50.2	51.8	51.8	50.2
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3630.1	3605.8	3591.3	3573.4	3568.6	3563.7	3570.2	3570.2	3560.5	3552.4	3537.8
5°	3714.4	3688.5	3660.9	3631.8	3604.2	3575.1	3563.7	3562.1	3544.3	3534.6	3529.7
7.5°	3758.1	3745.2	3714.4	3673.9	3631.8	3579.9	3557.2	3544.3	3526.5	3523.2	3523.2
10°	3763.0	3748.4	3732.2	3703.0	3654.4	3586.4	3542.7	3516.8	3500.6	3511.9	3533.0
12.5°	3716.0	3743.5	3729.0	3709.5	3670.6	3588.0	3524.9	3486.0	3481.1	3510.3	3565.3
15°	3596.1	3677.1	3717.6	3698.2	3667.4	3584.8	3495.7	3450.3	3450.3	3510.3	3581.5
17.5°	3505.4	3568.6	3667.4	3683.6	3648.0	3578.3	3468.2	3414.7	3429.3	3516.8	3592.9
20°	3430.9	3469.8	3565.3	3656.1	3622.0	3563.7	3427.7	3372.6	3401.7	3507.0	3609.1
22.5°	3314.3	3392.0	3450.3	3584.8	3596.1	3536.2	3387.2	3320.7	3379.1	3507.0	3601.0
25°	3200.9	3294.8	3356.4	3487.6	3557.2	3502.2	3349.9	3265.7	3354.8	3502.2	3594.5
27.5°	3121.5	3165.2	3277.0	3371.0	3498.9	3456.8	3299.7	3205.7	3324.0	3476.3	3557.2
30°	3037.3	3066.4	3176.6	3265.7	3421.2	3405.0	3247.9	3139.3	3285.1	3452.0	3460.1
32.5°	2944.9	2977.3	3034.0	3163.6	3312.6	3356.4	3189.5	3072.9	3243.0	3414.7	3346.7
35°	2851.0	2875.3	2920.6	3059.9	3186.3	3283.5	3118.3	2996.8	3213.8	3358.0	3238.1
37.5°	2757.0	2782.9	2821.8	2938.5	3053.5	3215.5	3056.7	2920.6	3160.4	3257.6	3124.7
40°	2667.9	2682.5	2723.0	2795.9	2943.3	3145.8	2987.1	2841.3	3105.3	3129.6	2970.9
42.5°	2504.3	2577.2	2614.5	2672.8	2818.6	3050.2	2906.1	2757.0	3043.7	3001.6	2817.0
45°	2327.8	2486.5	2502.7	2561.0	2708.4	2948.2	2829.9	2674.4	2985.4	2891.5	2671.2
47.5°	2183.6	2298.6	2392.6	2441.2	2577.2	2828.3	2758.7	2604.8	2898.0	2752.2	2528.6
50°	2055.6	2117.2	2287.3	2322.9	2420.1	2684.1	2674.4	2523.8	2776.5	2577.2	2389.3
52.5°	1930.9	1974.6	2128.5	2204.7	2284.0	2528.6	2574.0	2444.4	2643.6	2402.3	2248.4
55°	1822.4	1836.9	1921.2	2081.5	2152.8	2371.5	2463.8	2352.1	2475.2	2235.4	2112.3
57.5°	1710.6	1697.6	1759.2	1964.9	2016.7	2211.1	2347.2	2258.1	2339.1	2065.3	1971.4
60°	1594.0	1576.1	1602.1	1738.1	1872.6	2052.4	2209.5	2154.4	2173.9	1896.9	1814.3
62.5°	1472.5	1454.6	1446.5	1532.4	1731.6	1888.8	2070.2	2039.4	1971.4	1743.0	1619.9
65°	1346.1	1328.3	1315.3	1349.4	1576.1	1676.6	1914.7	1906.6	1749.5	1581.0	1363.9
67.5°	409.8	1208.4	1180.9	1179.3	1328.3	1483.8	1746.2	1733.3	1525.9	1407.7	1174.4
70°	369.3	980.0	1041.6	1027.0	1091.8	1287.8	1553.5	1543.7	1308.9	1129.1	1038.3
72.5°	338.6	346.7	920.1	903.9	918.5	1095.0	1352.6	1326.7	1109.6	890.9	897.4
75°	290.0	304.5	317.5	763.0	743.5	907.1	1133.9	1093.4	915.2	735.4	750.0
77.5°	236.5	254.3	264.0	555.6	601.0	646.3	905.5	852.1	630.1	588.0	280.2
80°	176.6	191.1	207.3	221.9	456.8	451.9	672.2	618.8	439.0	366.1	218.7
82.5°	129.6	134.4	144.2	160.4	181.4	302.9	432.5	380.7	304.5	166.8	150.6
85°	81.0	87.5	92.3	97.2	110.2	181.4	213.8	170.1	128.0	102.1	95.6
87.5°	51.8	51.8	50.2	51.8	53.5	64.8	72.9	69.7	55.1	51.8	51.8
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3521.6	3498.9	3498.9	3492.5	3497.3	3497.3	3495.7	3497.3	3508.7	3515.1	3526.5
5°	3520.0	3513.5	3528.1	3545.9	3567.0	3592.9	3599.4	3622.0	3643.1	3670.6	3699.8
7.5°	3541.1	3563.7	3591.3	3620.4	3662.5	3693.3	3720.9	3748.4	3767.8	3793.8	3810.0
10°	3571.8	3617.2	3664.2	3701.4	3746.8	3772.7	3790.5	3793.8	3766.2	3722.5	3686.8
12.5°	3615.6	3669.0	3712.8	3748.4	3769.5	3759.7	3707.9	3654.4	3623.7	3578.3	3515.1
15°	3652.8	3701.4	3746.8	3732.2	3675.5	3622.0	3581.5	3518.4	3456.8	3414.7	3387.2
17.5°	3669.0	3716.0	3699.8	3623.7	3570.2	3508.7	3426.0	3377.4	3336.9	3304.5	3288.3
20°	3678.7	3670.6	3583.2	3528.1	3424.4	3367.7	3314.3	3268.9	3238.1	3221.9	3218.7
22.5°	3652.8	3554.0	3479.5	3380.7	3304.5	3257.6	3215.5	3178.2	3157.1	3144.2	3136.1
25°	3567.0	3452.0	3341.8	3264.1	3199.3	3158.8	3126.4	3095.6	3069.7	3063.2	3047.0
27.5°	3447.1	3353.1	3207.4	3147.4	3090.7	3071.3	3035.6	3004.9	2982.2	2962.8	2910.9
30°	3348.3	3199.3	3094.0	3038.9	3004.9	2982.2	2941.7	2909.3	2870.4	2799.1	2770.0
32.5°	3226.8	3079.4	2979.0	2948.2	2906.1	2886.6	2841.3	2770.0	2710.1	2680.9	2679.3
35°	3069.7	2948.2	2875.3	2847.7	2813.7	2781.3	2687.4	2622.6	2593.4	2596.7	2621.0
37.5°	2938.5	2829.9	2782.9	2744.1	2705.2	2622.6	2543.2	2512.4	2520.5	2536.7	2548.1
40°	2805.6	2723.0	2669.6	2638.8	2551.3	2470.3	2428.2	2439.5	2454.1	2465.5	2480.0
42.5°	2676.0	2617.7	2564.3	2504.3	2384.5	2340.7	2350.4	2365.0	2378.0	2394.2	2408.8
45°	2552.9	2501.1	2439.5	2303.5	2243.5	2254.9	2269.4	2280.8	2300.2	2311.6	2326.1
47.5°	2436.3	2381.2	2272.7	2152.8	2146.3	2169.0	2182.0	2196.6	2211.1	2182.0	1203.6
50°	2305.1	2248.4	2083.2	2037.8	2052.4	2073.4	2089.6	2104.2	1874.2	745.1	573.4
52.5°	2175.5	2031.3	1926.0	1939.0	1953.6	1977.9	1989.2	1477.3	588.0	560.5	562.1
55°	2031.3	1846.7	1815.9	1832.1	1845.0	1869.3	1239.2	542.7	539.4	537.8	550.8
57.5°	1804.5	1692.8	1705.7	1721.9	1734.9	1224.6	528.1	524.8	526.5	528.1	529.7
60°	1602.1	1577.8	1592.3	1606.9	1137.2	510.3	500.5	502.2	508.6	503.8	490.8
62.5°	1441.7	1461.1	1475.7	1292.7	484.3	479.5	484.3	479.5	468.1	460.0	443.8
65°	1318.6	1338.0	1349.4	455.2	453.6	460.0	455.2	439.0	421.2	398.5	393.6
67.5°	1189.0	1208.4	432.5	421.2	427.6	419.5	400.1	380.7	367.7	348.3	340.2
70°	1054.5	451.9	392.0	390.4	379.1	366.1	345.0	325.6	309.4	301.3	293.2
72.5°	761.3	358.0	353.1	340.2	320.7	302.9	285.1	273.8	265.7	260.8	255.9
75°	317.5	311.0	296.4	273.8	254.3	246.2	233.3	225.2	221.9	212.2	209.0
77.5°	265.7	252.7	231.6	215.4	204.1	199.2	189.5	179.8	174.9	173.3	166.8
80°	204.1	186.3	176.6	168.5	165.2	153.9	142.5	137.7	134.4	132.8	128.0
82.5°	139.3	132.8	126.4	115.0	115.0	110.2	105.3	102.1	98.8	98.8	95.6
85°	90.7	85.9	84.2	79.4	79.4	76.1	74.5	72.9	71.3	69.7	68.0
87.5°	51.8	51.8	53.5	51.8	51.8	50.2	48.6	47.0	45.4	45.4	42.1
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3541.1	3557.2	3560.5	3615.6	3646.3	3644.7	3635.0	3664.2	3646.3	3636.6	3646.3
5°	3729.0	3748.4	3764.6	3824.5	3845.6	3855.3	3853.7	3869.9	3856.9	3845.6	3845.6
7.5°	3821.3	3827.8	3834.2	3819.7	3810.0	3793.8	3769.5	3733.8	3716.0	3696.6	3672.3
10°	3669.0	3648.0	3656.1	3626.9	3602.6	3584.8	3562.1	3533.0	3508.7	3490.8	3463.3
12.5°	3482.7	3481.1	3484.4	3489.2	3464.9	3450.3	3432.5	3411.5	3393.6	3374.2	3351.5
15°	3369.3	3371.0	3383.9	3379.1	3371.0	3362.9	3343.4	3336.9	3320.7	3299.7	3286.7
17.5°	3288.3	3296.4	3309.4	3302.9	3290.0	3281.9	3267.3	3252.7	3238.1	3221.9	3202.5
20°	3217.1	3225.2	3233.3	3225.2	3200.9	3189.5	3170.1	3124.7	3092.3	3059.9	3030.8
22.5°	3139.3	3144.2	3137.7	3111.8	3050.2	3021.1	2998.4	2985.4	2957.9	2940.1	2922.3
25°	3042.1	3014.6	2972.5	2943.3	2919.0	2906.1	2896.3	2894.7	2891.5	2888.2	2880.1
27.5°	2883.4	2873.7	2851.0	2839.6	2841.3	2846.1	2847.7	2852.6	2847.7	2841.3	2834.8
30°	2765.1	2770.0	2771.6	2774.8	2782.9	2787.8	2789.4	2795.9	2792.7	2787.8	2784.6
32.5°	2690.6	2702.0	2708.4	2718.2	2723.0	2731.1	2731.1	2740.8	2731.1	2729.5	2726.3
35°	2629.1	2638.8	2642.0	2656.6	2661.5	2669.6	2669.6	2677.7	2669.6	2586.9	2042.7
37.5°	2567.5	2577.2	2583.7	2596.7	2598.3	2603.1	2402.3	1757.6	1133.9	878.0	670.6
40°	2494.6	2505.9	2512.4	2517.3	1768.9	1122.6	772.7	628.5	628.5	633.4	638.2
42.5°	2416.9	2425.0	1689.5	983.3	612.3	610.7	615.6	620.4	625.3	631.8	638.2
45°	1900.1	959.0	609.1	594.5	599.4	605.8	612.3	618.8	626.9	633.4	636.6
47.5°	623.7	584.8	592.9	586.4	594.5	602.6	609.1	615.6	617.2	618.8	617.2
50°	576.7	576.7	581.5	581.5	588.0	591.3	591.3	591.3	584.8	583.2	578.3
52.5°	557.2	570.2	563.7	567.0	563.7	558.9	554.0	549.1	539.4	536.2	529.7
55°	547.5	552.4	536.2	531.3	524.8	511.9	505.4	498.9	490.8	487.6	479.5
57.5°	524.8	513.5	495.7	487.6	476.2	463.3	456.8	451.9	443.8	440.6	435.7
60°	482.7	460.0	448.7	439.0	426.0	414.7	409.8	406.6	400.1	398.5	393.6
62.5°	430.9	411.4	401.7	388.8	379.1	372.6	367.7	366.1	359.6	359.6	356.4
65°	374.2	364.5	356.4	343.4	338.6	332.1	330.5	328.8	325.6	324.0	320.7
67.5°	328.8	322.4	311.0	304.5	301.3	296.4	293.2	290.0	283.5	280.2	275.4
70°	288.3	283.5	272.1	267.3	260.8	252.7	247.8	244.6	239.7	236.5	231.6
72.5°	249.5	234.9	226.8	221.9	217.1	209.0	207.3	204.1	199.2	197.6	192.8
75°	200.9	189.5	184.7	181.4	176.6	171.7	171.7	171.7	166.8	165.2	163.6
77.5°	160.4	153.9	150.6	147.4	145.8	142.5	137.7	136.1	131.2	131.2	129.6
80°	123.1	119.9	116.6	115.0	113.4	110.2	106.9	105.3	100.4	100.4	98.8
82.5°	90.7	89.1	87.5	85.9	84.2	82.6	77.8	76.1	72.9	72.9	71.3
85°	64.8	63.2	59.9	58.3	58.3	56.7	51.8	50.2	47.0	47.0	47.0
87.5°	40.5	38.9	37.3	35.6	34.0	32.4	29.2	27.5	27.5	24.3	22.7
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3626.9	3654.4	3651.2	3670.6	3675.5	3685.2	3688.5	3690.1	3665.8	3685.2	3686.8
5°	3840.7	3845.6	3848.8	3856.9	3865.0	3866.6	3858.5	3848.8	3852.1	3845.6	3829.4
7.5°	3669.0	3644.7	3639.9	3633.4	3630.1	3626.9	3612.3	3625.3	3610.7	3604.2	3581.5
10°	3458.4	3435.8	3434.1	3434.1	3439.0	3437.4	3434.1	3427.7	3440.6	3432.5	3427.7
12.5°	3348.3	3340.2	3345.0	3341.8	3354.8	3358.0	3354.8	3354.8	3351.5	3345.0	3348.3
15°	3281.9	3275.4	3280.3	3275.4	3285.1	3286.7	3278.6	3283.5	3275.4	3267.3	3264.1
17.5°	3194.4	3179.8	3168.5	3152.3	3153.9	3150.7	3140.9	3140.9	3132.8	3111.8	3113.4
20°	3025.9	3011.4	3004.9	3004.9	3013.0	3016.2	3014.6	3017.8	3009.7	3006.5	2993.5
22.5°	2920.6	2919.0	2922.3	2930.4	2943.3	2961.1	2962.8	2962.8	2962.8	2961.1	2944.9
25°	2883.4	2883.4	2886.6	2898.0	2907.7	2920.6	2923.9	2927.1	2923.9	2923.9	2909.3
27.5°	2841.3	2838.0	2844.5	2855.8	2867.2	2876.9	2885.0	2886.6	2881.8	2881.8	2886.6
30°	2789.4	2787.8	2795.9	2807.2	2817.0	2826.7	2834.8	2841.3	2834.8	2834.8	2829.9
32.5°	2736.0	2736.0	2739.2	2671.2	2476.8	2230.6	2235.4	2092.9	1994.1	1869.3	2034.6
35°	1707.4	1242.4	1067.5	903.9	788.9	714.4	712.7	688.4	677.1	669.0	667.4
37.5°	644.7	648.0	654.4	657.7	662.5	665.8	667.4	667.4	667.4	667.4	665.8
40°	643.1	649.6	654.4	659.3	664.1	667.4	667.4	669.0	670.6	670.6	670.6
42.5°	644.7	651.2	657.7	662.5	665.8	667.4	669.0	670.6	670.6	670.6	670.6
45°	643.1	646.3	646.3	648.0	648.0	648.0	649.6	649.6	648.0	646.3	649.6
47.5°	618.8	618.8	613.9	612.3	610.7	607.5	609.1	607.5	605.8	604.2	607.5
50°	576.7	570.2	567.0	563.7	562.1	558.9	560.5	558.9	557.2	554.0	558.9
52.5°	526.5	524.8	518.4	515.1	513.5	515.1	511.9	510.3	508.6	507.0	508.6
55°	477.9	471.4	469.8	466.5	464.9	466.5	464.9	463.3	461.7	460.0	461.7
57.5°	434.1	429.3	427.6	424.4	424.4	424.4	424.4	422.8	421.2	419.5	421.2
60°	392.0	388.8	387.2	387.2	385.5	385.5	385.5	383.9	382.3	382.3	383.9
62.5°	356.4	356.4	351.5	349.9	349.9	351.5	349.9	348.3	346.7	345.0	348.3
65°	319.1	312.6	311.0	307.8	304.5	306.2	304.5	302.9	301.3	299.7	302.9
67.5°	273.8	272.1	265.7	262.4	260.8	262.4	260.8	259.2	257.6	255.9	259.2
70°	230.0	230.0	223.5	221.9	220.3	220.3	218.7	218.7	217.1	215.4	218.7
72.5°	191.1	191.1	189.5	186.3	184.7	183.0	181.4	179.8	179.8	181.4	181.4
75°	158.7	155.5	149.0	150.6	149.0	147.4	147.4	145.8	144.2	147.4	145.8
77.5°	124.7	123.1	118.3	119.9	118.3	116.6	116.6	115.0	113.4	115.0	115.0
80°	94.0	94.0	92.3	90.7	90.7	89.1	87.5	87.5	85.9	87.5	87.5
82.5°	68.0	68.0	66.4	64.8	63.2	63.2	61.6	61.6	61.6	61.6	61.6
85°	43.7	42.1	42.1	38.9	38.9	38.9	37.3	37.3	37.3	37.3	37.3
87.5°	21.1	21.1	19.4	19.4	17.8	16.2	16.2	14.6	14.6	16.2	16.2
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3657.7	3678.7	3660.9	3669.0	3670.6	3698.2	3696.6	3703.0	3691.7	3678.7	3660.9
5°	3844.0	3834.2	3821.3	3852.1	3835.9	3855.3	3861.8	3874.7	3874.7	3873.1	3858.5
7.5°	3605.8	3584.8	3601.0	3612.3	3617.2	3604.2	3630.1	3659.3	3683.6	3698.2	3699.8
10°	3419.6	3426.0	3424.4	3429.3	3440.6	3439.0	3455.2	3471.4	3477.9	3487.6	3490.8
12.5°	3332.1	3330.5	3333.7	3345.0	3351.5	3349.9	3366.1	3375.8	3379.1	3380.7	3379.1
15°	3262.4	3251.1	3259.2	3260.8	3265.7	3265.7	3285.1	3299.7	3306.2	3309.4	3306.2
17.5°	3131.2	3103.7	3129.6	3129.6	3147.4	3144.2	3175.0	3199.3	3212.2	3221.9	3221.9
20°	3001.6	2988.7	2998.4	2995.2	3008.1	3006.5	3025.9	3042.1	3053.5	3061.6	3071.3
22.5°	2949.8	2953.0	2938.5	2940.1	2940.1	2938.5	2948.2	2956.3	2959.5	2964.4	2961.1
25°	2915.8	2919.0	2914.2	2906.1	2902.8	2906.1	2910.9	2920.6	2922.3	2919.0	2907.7
27.5°	2881.8	2872.0	2880.1	2865.6	2862.3	2868.8	2875.3	2876.9	2878.5	2878.5	2868.8
30°	2829.9	2821.8	2829.9	2823.4	2817.0	2823.4	2828.3	2828.3	2831.5	2833.2	2821.8
32.5°	1977.9	1994.1	2256.5	2415.2	2638.8	2752.2	2773.2	2773.2	2776.5	2776.5	2766.7
35°	673.9	675.5	730.6	792.1	923.3	1085.3	1297.5	1407.7	1780.2	2225.7	2656.6
37.5°	665.8	664.1	662.5	660.9	659.3	657.7	654.4	652.8	662.5	785.6	1065.9
40°	669.0	667.4	664.1	662.5	660.9	657.7	656.1	652.8	649.6	646.3	643.1
42.5°	669.0	667.4	665.8	664.1	662.5	660.9	657.7	654.4	651.2	646.3	641.5
45°	646.3	646.3	648.0	648.0	649.6	649.6	649.6	648.0	648.0	646.3	639.9
47.5°	604.2	604.2	609.1	609.1	612.3	615.6	615.6	618.8	623.7	626.9	628.5
50°	555.6	555.6	560.5	562.1	565.3	570.2	575.1	576.7	581.5	588.0	594.5
52.5°	507.0	507.0	511.9	511.9	515.1	520.0	524.8	526.5	532.9	539.4	547.5
55°	461.7	461.7	464.9	466.5	468.1	471.4	476.2	476.2	482.7	487.6	495.7
57.5°	421.2	424.4	424.4	424.4	426.0	429.3	432.5	432.5	437.4	442.2	448.7
60°	382.3	385.5	385.5	385.5	387.2	388.8	392.0	392.0	395.2	398.5	405.0
62.5°	346.7	349.9	349.9	351.5	351.5	353.1	356.4	354.8	358.0	359.6	364.5
65°	301.3	304.5	306.2	307.8	309.4	312.6	317.5	315.9	320.7	324.0	328.8
67.5°	257.6	260.8	260.8	262.4	264.0	267.3	270.5	270.5	275.4	278.6	285.1
70°	217.1	220.3	220.3	221.9	223.5	226.8	230.0	228.4	233.3	236.5	241.4
72.5°	179.8	183.0	183.0	184.7	184.7	187.9	191.1	194.4	194.4	197.6	200.9
75°	145.8	147.4	149.0	149.0	150.6	152.3	155.5	158.7	160.4	162.0	165.2
77.5°	115.0	116.6	118.3	118.3	119.9	121.5	123.1	129.6	132.8	134.4	134.4
80°	87.5	89.1	89.1	89.1	90.7	92.3	95.6	95.6	102.1	102.1	103.7
82.5°	61.6	63.2	63.2	63.2	64.8	68.0	69.7	71.3	74.5	76.1	76.1
85°	37.3	38.9	38.9	38.9	40.5	42.1	45.4	47.0	48.6	48.6	50.2
87.5°	14.6	16.2	17.8	17.8	19.4	21.1	22.7	24.3	25.9	25.9	27.5
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#

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**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3641.5	3652.8	3641.5	3648.0	3656.1	3641.5	3607.5	3594.5	3589.6	3570.2	3557.2
5°	3844.0	3844.0	3839.1	3852.1	3850.4	3827.8	3792.1	3775.9	3759.7	3738.7	3722.5
7.5°	3699.8	3712.8	3720.9	3771.1	3803.5	3806.7	3829.4	3834.2	3840.7	3834.2	3824.5
10°	3492.5	3487.6	3510.3	3557.2	3584.8	3599.4	3643.1	3664.2	3682.0	3717.6	3754.9
12.5°	3375.8	3382.3	3392.0	3426.0	3452.0	3445.5	3463.3	3477.9	3498.9	3534.6	3588.0
15°	3298.1	3304.5	3314.3	3340.2	3356.4	3348.3	3358.0	3367.7	3382.3	3400.1	3432.5
17.5°	3213.8	3225.2	3236.5	3264.1	3278.6	3277.0	3285.1	3288.3	3293.2	3304.5	3327.2
20°	3082.6	3118.3	3140.9	3178.2	3199.3	3196.0	3210.6	3215.5	3221.9	3233.3	3243.0
22.5°	2962.8	2972.5	2983.8	3024.3	3059.9	3103.7	3113.4	3126.4	3142.6	3153.9	3163.6
25°	2894.7	2888.2	2893.1	2920.6	2940.1	2943.3	2957.9	3000.0	3043.7	3063.2	3085.9
27.5°	2854.2	2847.7	2846.1	2859.1	2862.3	2854.2	2851.0	2863.9	2896.3	2928.7	2996.8
30°	2810.5	2802.4	2795.9	2807.2	2812.1	2800.8	2779.7	2768.4	2787.8	2795.9	2823.4
32.5°	2758.7	2750.6	2747.3	2753.8	2757.0	2747.3	2724.6	2711.7	2708.4	2702.0	2708.4
35°	2700.3	2692.2	2687.4	2689.0	2695.5	2687.4	2667.9	2651.7	2643.6	2625.8	2612.9
37.5°	1391.5	1971.4	2559.4	2621.0	2627.4	2625.8	2606.4	2588.6	2580.5	2559.4	2552.9
40°	636.6	711.1	1067.5	1394.7	2011.9	2556.2	2538.3	2520.5	2505.9	2499.5	2475.2
42.5°	635.0	636.6	638.2	630.1	780.8	1329.9	1963.3	2450.9	2441.2	2425.0	2407.1
45°	635.0	626.9	633.4	623.7	626.9	625.3	779.2	1257.0	2237.0	2337.5	2329.4
47.5°	628.5	623.7	630.1	622.0	612.3	617.2	610.7	618.8	965.4	1637.7	2243.5
50°	599.4	602.6	613.9	612.3	604.2	610.7	599.4	609.1	601.0	659.3	1270.0
52.5°	555.6	562.1	573.4	583.2	586.4	594.5	591.3	594.5	588.0	589.6	591.3
55°	503.8	511.9	521.6	536.2	542.7	555.6	565.3	570.2	578.3	576.7	563.7
57.5°	455.2	463.3	471.4	486.0	500.5	507.0	524.8	534.6	555.6	550.8	547.5
60°	409.8	416.3	424.4	427.6	445.5	456.8	473.0	482.7	510.3	516.7	526.5
62.5°	369.3	372.6	379.1	383.9	395.2	406.6	414.7	430.9	445.5	466.5	481.1
65°	332.1	335.3	340.2	343.4	345.0	361.2	366.1	383.9	388.8	411.4	424.4
67.5°	290.0	296.4	302.9	306.2	309.4	319.1	322.4	330.5	341.8	351.5	367.7
70°	246.2	251.1	257.6	262.4	268.9	275.4	285.1	290.0	298.1	304.5	317.5
72.5°	205.7	210.6	213.8	218.7	223.5	228.4	236.5	247.8	254.3	265.7	268.9
75°	166.8	171.7	174.9	178.2	183.0	186.3	189.5	200.9	207.3	217.1	226.8
77.5°	137.7	137.7	140.9	150.6	149.0	149.0	152.3	158.7	163.6	170.1	179.8
80°	106.9	108.5	110.2	118.3	119.9	121.5	119.9	124.7	129.6	131.2	137.7
82.5°	79.4	81.0	81.0	85.9	90.7	90.7	90.7	92.3	97.2	98.8	102.1
85°	53.5	55.1	56.7	58.3	61.6	63.2	64.8	64.8	68.0	69.7	71.3
87.5°	29.2	32.4	34.0	35.6	37.3	38.9	40.5	42.1	43.7	45.4	47.0
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#

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**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3552.4	3544.3	3539.4	3526.5	3523.2	3502.2	3505.4	3502.2	3502.2	3507.0	3523.2
5°	3704.7	3665.8	3656.1	3628.5	3605.8	3567.0	3542.7	3529.7	3510.3	3502.2	3513.5
7.5°	3808.3	3779.2	3754.9	3730.6	3698.2	3652.8	3618.8	3579.9	3547.5	3516.8	3508.7
10°	3790.5	3822.9	3822.9	3808.3	3777.6	3732.2	3691.7	3643.1	3586.4	3537.8	3508.7
12.5°	3639.9	3696.6	3741.9	3775.9	3806.7	3775.9	3735.4	3696.6	3633.4	3562.1	3508.7
15°	3474.6	3533.0	3589.6	3660.9	3735.4	3766.2	3764.6	3719.2	3662.5	3588.0	3513.5
17.5°	3358.0	3398.5	3429.3	3507.0	3597.7	3677.1	3730.6	3733.8	3678.7	3612.3	3515.1
20°	3270.5	3299.7	3325.6	3369.3	3448.7	3545.9	3644.7	3699.8	3690.1	3617.2	3520.0
22.5°	3191.2	3212.2	3233.3	3265.7	3328.8	3392.0	3507.0	3620.4	3669.0	3609.1	3515.1
25°	3111.8	3134.5	3150.7	3173.3	3223.6	3275.4	3356.4	3497.3	3605.8	3602.6	3505.4
27.5°	3017.8	3048.6	3068.0	3098.8	3132.8	3171.7	3226.8	3359.6	3515.1	3570.2	3479.5
30°	2904.4	2949.8	2979.0	3013.0	3042.1	3076.1	3119.9	3200.9	3393.6	3507.0	3452.0
32.5°	2740.8	2821.8	2886.6	2919.0	2951.4	2980.6	3019.5	3087.5	3244.6	3421.2	3421.2
35°	2624.2	2661.5	2719.8	2813.7	2854.2	2883.4	2919.0	2972.5	3072.9	3319.1	3371.0
37.5°	2533.5	2548.1	2577.2	2669.6	2745.7	2792.7	2828.3	2862.3	2961.1	3179.8	3306.2
40°	2465.5	2460.6	2457.4	2501.1	2609.6	2684.1	2724.6	2758.7	2834.8	3013.0	3220.3
42.5°	2386.1	2381.2	2365.0	2376.4	2429.8	2554.5	2616.1	2653.4	2716.5	2838.0	3126.4
45°	2303.5	2295.4	2288.9	2277.5	2297.0	2366.6	2493.0	2548.1	2583.7	2692.2	3008.1
47.5°	2219.2	2207.9	2199.8	2190.1	2178.7	2211.1	2331.0	2429.8	2491.4	2559.4	2865.6
50°	2099.4	2113.9	2104.2	2092.9	2083.2	2076.7	2126.9	2288.9	2365.0	2420.1	2692.2
52.5°	989.7	1924.4	2005.4	1994.1	1981.1	1969.8	1981.1	2104.2	2241.9	2285.6	2483.3
55°	563.7	856.9	1783.5	1885.5	1874.2	1858.0	1848.3	1890.4	2096.1	2154.4	2292.1
57.5°	542.7	544.3	787.3	1699.3	1762.4	1747.8	1736.5	1746.2	1921.2	2020.0	2125.3
60°	524.8	524.8	524.8	751.6	1624.7	1629.6	1615.0	1598.8	1675.0	1869.3	1956.8
62.5°	486.0	495.7	500.5	500.5	741.9	1504.9	1490.3	1485.4	1488.7	1687.9	1788.3
65°	435.7	458.4	468.1	474.6	474.6	779.2	1362.3	1354.2	1342.9	1419.0	1618.3
67.5°	380.7	403.3	424.4	437.4	439.0	453.6	813.2	1219.8	1203.6	1205.2	1436.8
70°	324.0	343.4	366.1	385.5	403.3	411.4	424.4	1012.4	1065.9	1043.2	1231.1
72.5°	280.2	288.3	304.5	324.0	345.0	364.5	375.8	403.3	924.9	900.7	936.3
75°	233.3	239.7	251.1	264.0	280.2	302.9	322.4	341.8	490.8	754.9	750.0
77.5°	181.4	192.8	205.7	213.8	221.9	238.1	264.0	283.5	302.9	510.3	601.0
80°	139.3	147.4	153.9	162.0	171.7	183.0	192.8	215.4	238.1	255.9	460.0
82.5°	103.7	108.5	113.4	116.6	119.9	126.4	144.2	152.3	166.8	183.0	217.1
85°	72.9	76.1	79.4	81.0	82.6	84.2	90.7	92.3	106.9	110.2	131.2
87.5°	47.0	48.6	51.8	53.5	53.5	55.1	56.7	56.7	56.7	53.5	64.8
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: 4SNLED-LD5-84SL-RW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	3534.6	3534.6
2.5°	3536.2	3562.1
5°	3531.3	3565.3
7.5°	3518.4	3550.8
10°	3498.9	3537.8
12.5°	3477.9	3515.1
15°	3460.1	3487.6
17.5°	3440.6	3456.8
20°	3414.7	3427.7
22.5°	3388.8	3382.3
25°	3359.6	3345.0
27.5°	3322.4	3294.8
30°	3288.3	3239.8
32.5°	3256.0	3176.6
35°	3212.2	3111.8
37.5°	3166.9	3045.4
40°	3113.4	2969.2
42.5°	3056.7	2893.1
45°	2985.4	2820.2
47.5°	2922.3	2732.7
50°	2834.8	2638.8
52.5°	2727.9	2551.3
55°	2601.5	2444.4
57.5°	2465.5	2332.6
60°	2319.7	2204.7
62.5°	2143.1	2071.8
65°	1935.8	1919.6
67.5°	1665.2	1751.1
70°	1365.6	1558.3
72.5°	1142.0	1354.2
75°	936.3	1125.8
77.5°	741.9	882.8
80°	463.3	646.3
82.5°	311.0	424.4
85°	187.9	202.5
87.5°	72.9	74.5
90°	0.0	0.0

(END OF REPORT)