

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

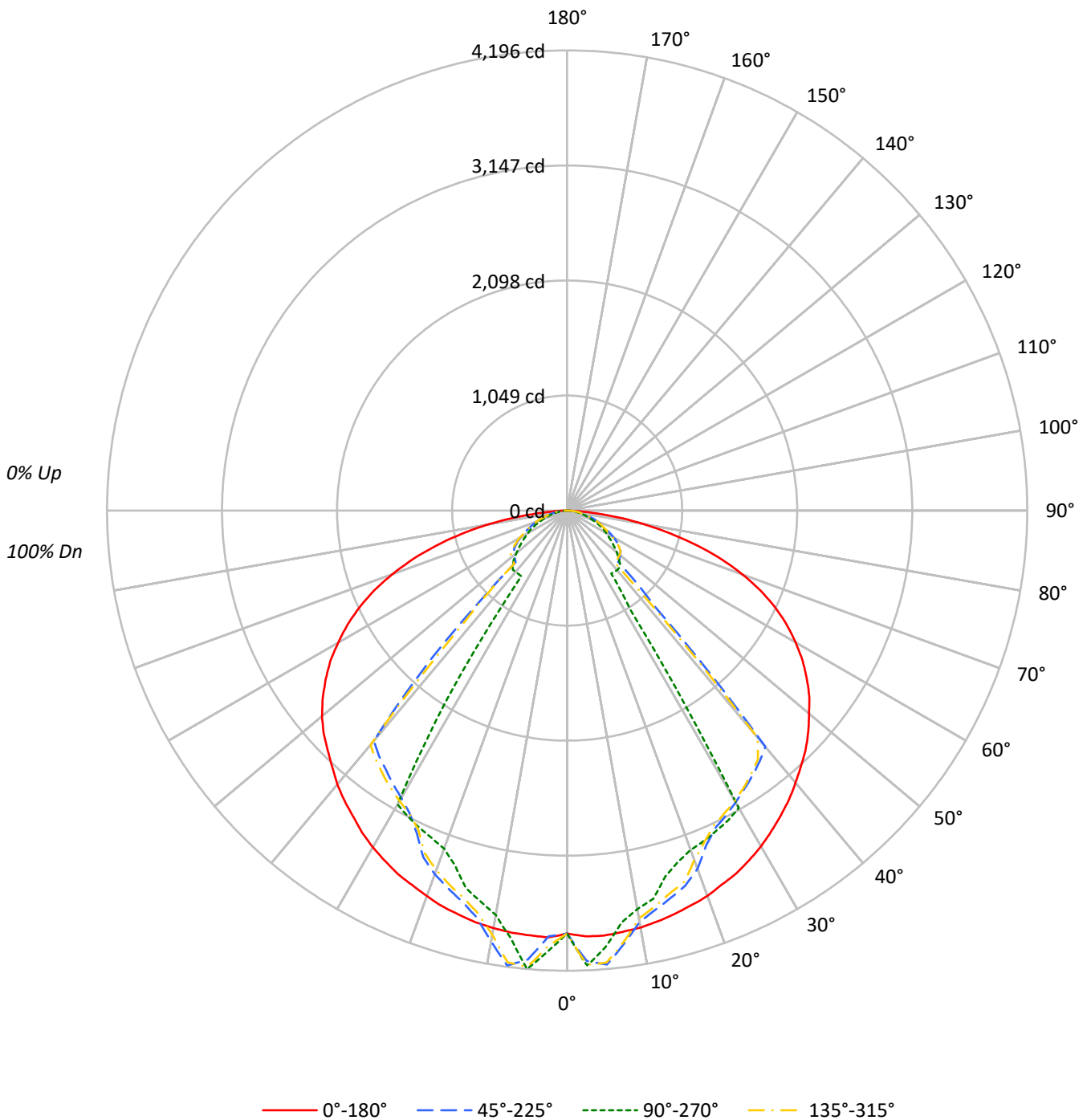
Lumens per Lamp: N/A
Luminaire Lumens: 7723.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	31166	31166	31166	31166
5°	31471	31401	31457	32955
10°	31502	28390	31545	28825
15°	31572	26266	31645	27099
20°	31801	24913	31801	24820
25°	32077	24437	32123	24209
30°	32401	24006	32482	23721
35°	32779	5468	32846	5703
40°	33303	5686	33504	5870
45°	34101	5654	34219	5860
50°	34897	5113	35369	5251
55°	35971	4539	36258	4604
60°	36883	4033	36964	4085
65°	37534	3520	37439	3464
70°	36997	2837	36882	2735
75°	34348	2183	34594	2091
80°	27877	1551	28996	1419
85°	15091	929	15938	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	4.9
10°-20°	1043.3	13.5
20°-30°	1545.3	20.0
30°-40°	1557.1	20.2
40°-50°	1216.3	15.7
50°-60°	939.5	12.2
60°-70°	630.8	8.2
70°-80°	321.8	4.2
80°-90°	89.5	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°	2968.1	38.4
0°-40°	4525.1	58.6
0°-60°	6680.9	86.5
0°-90°	7723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7723.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3857	3857	3857	3857	3857	
5°	3890	3998	3888	4196	3890	370
15°	3805	3455	3814	3565	3805	1076
25°	3650	3220	3655	3190	3650	1684
35°	3395	700	3402	730	3395	2128
45°	3077	680	3088	705	3077	2373
55°	2667	495	2688	502	2667	2382
65°	2094	332	2089	327	2094	2060
75°	1228	168	1237	161	1228	1285
85°	221	53	233	41	221	304
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°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3886.7	3900.9	3911.5	3918.5	3922.1	3922.1	3923.8	3925.6	3948.6	3959.2	3966.3
5°	3890.2	3904.4	3925.6	3953.9	3978.6	3999.8	4017.5	4042.3	4067.0	4093.5	4102.3
7.5°	3874.3	3892.0	3934.4	3985.7	4033.4	4067.0	4090.0	4105.9	4118.3	4120.0	4128.9
10°	3860.2	3892.0	3950.3	4017.5	4077.6	4118.3	4118.3	4109.4	4121.8	4074.1	4026.3
12.5°	3835.5	3870.8	3950.3	4038.7	4095.3	4111.2	4104.1	4068.8	3996.3	3938.0	3911.5
15°	3805.4	3853.1	3952.1	4051.1	4098.8	4104.1	4037.0	3946.8	3892.0	3856.7	3812.5
17.5°	3771.8	3835.5	3953.9	4052.9	4070.5	4045.8	3918.5	3862.0	3805.4	3722.3	3662.2
20°	3740.0	3801.9	3939.7	4028.1	4038.7	3927.4	3828.4	3768.3	3672.8	3600.4	3573.9
22.5°	3690.5	3763.0	3927.4	3994.5	3953.9	3824.9	3729.4	3634.0	3547.4	3526.1	3494.3
25°	3649.9	3725.9	3899.1	3953.9	3846.1	3731.2	3619.8	3508.5	3467.8	3437.8	3409.5
27.5°	3595.1	3688.8	3862.0	3879.6	3731.2	3630.4	3467.8	3418.3	3381.2	3347.6	3335.3
30°	3535.0	3649.9	3810.7	3777.1	3635.7	3487.3	3367.1	3321.1	3294.6	3259.3	3245.1
32.5°	3466.1	3591.5	3754.2	3658.7	3533.2	3347.6	3269.9	3234.5	3199.2	3172.6	3084.3
35°	3395.4	3540.3	3687.0	3545.6	3409.5	3241.6	3172.6	3140.8	3107.3	3010.0	2918.1
37.5°	3322.9	3483.7	3605.7	3423.6	3245.1	3132.0	3073.7	3038.3	2962.3	2838.6	2792.6
40°	3239.8	3414.8	3501.4	3298.1	3101.9	3020.6	2965.9	2930.5	2759.1	2704.3	2690.1
42.5°	3156.7	3347.6	3374.1	3176.2	2983.5	2902.2	2856.3	2739.6	2623.0	2594.7	2600.0
45°	3077.2	3275.2	3234.5	3003.0	2859.8	2792.6	2714.9	2554.0	2492.2	2506.3	2509.8
47.5°	2981.8	3188.6	3087.8	2829.8	2732.5	2665.4	2492.2	2395.0	2386.1	2405.6	2416.2
50°	2879.2	3091.3	2932.3	2672.4	2594.7	2515.1	2318.9	2269.5	2280.1	2299.5	2311.9
52.5°	2783.8	2981.8	2771.4	2525.7	2458.6	2276.5	2144.0	2152.8	2170.5	2193.5	2200.5
55°	2667.1	2849.2	2600.0	2377.3	2313.6	2075.0	2014.9	2036.2	2053.8	2073.3	2087.4
57.5°	2545.2	2697.2	2396.7	2211.1	2108.6	1896.5	1901.8	1916.0	1928.3	1951.3	806.0
60°	2405.6	2524.0	2174.0	2057.4	1854.1	1755.1	1760.4	1785.2	1797.5	1003.9	555.0
62.5°	2260.6	2322.5	1972.5	1882.4	1620.8	1613.7	1638.5	1649.1	1122.4	530.2	519.6
65°	2094.5	2082.1	1774.6	1631.4	1461.7	1468.8	1495.3	1442.3	496.7	496.7	493.1
67.5°	1910.7	1836.4	1581.9	1350.4	1307.9	1323.9	1352.1	471.9	459.5	463.1	450.7
70°	1700.3	1596.0	1382.2	1143.6	1157.7	1173.6	456.0	427.7	422.4	413.6	388.8
72.5°	1477.6	1334.5	1131.2	993.3	1002.2	629.2	399.5	385.3	367.6	350.0	323.5
75°	1228.4	1042.8	830.7	830.7	843.1	358.8	348.2	325.2	305.8	282.8	266.9
77.5°	963.3	802.4	645.1	669.9	327.0	300.5	281.0	256.3	240.4	226.2	217.4
80°	705.2	560.3	486.1	434.8	254.5	228.0	208.6	194.4	187.4	178.5	167.9
82.5°	463.1	337.6	337.6	205.0	178.5	157.3	152.0	141.4	134.3	129.0	123.7
85°	220.9	196.2	148.5	125.5	111.4	100.7	97.2	91.9	91.9	90.1	88.4
87.5°	81.3	88.4	65.4	63.6	60.1	58.3	60.1	60.1	61.9	60.1	58.3
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3983.9	3998.1	4008.7	4026.3	4049.3	4068.8	4086.4	4111.2	4150.1	4160.7	4169.5
5°	4102.3	4107.7	4120.0	4134.2	4137.7	4146.5	4144.8	4155.4	4160.7	4173.0	4146.5
7.5°	4109.4	4081.1	4047.6	4017.5	3996.3	3976.9	3964.5	3983.9	3994.5	4003.4	3976.9
10°	3960.9	3927.4	3907.9	3890.2	3869.0	3839.0	3798.3	3807.2	3803.6	3803.6	3794.8
12.5°	3867.3	3819.6	3770.1	3725.9	3706.4	3704.7	3706.4	3725.9	3725.9	3724.1	3713.5
15°	3720.6	3674.6	3649.9	3639.3	3639.3	3634.0	3634.0	3655.2	3649.9	3649.9	3644.6
17.5°	3623.4	3591.5	3573.9	3561.5	3556.2	3565.0	3575.6	3584.5	3586.2	3579.2	3550.9
20°	3543.8	3513.8	3492.6	3496.1	3494.3	3499.6	3504.9	3474.9	3437.8	3388.3	3365.3
22.5°	3460.7	3437.8	3421.9	3421.9	3400.7	3367.1	3317.6	3307.0	3301.7	3278.7	3259.3
25°	3381.2	3354.7	3331.7	3261.0	3216.8	3222.1	3213.3	3195.6	3193.9	3192.1	3199.2
27.5°	3301.7	3232.7	3144.4	3133.8	3116.1	3114.3	3124.9	3133.8	3133.8	3140.8	3149.7
30°	3137.3	3057.8	3041.9	3022.4	3029.5	3054.2	3059.5	3071.9	3075.4	3087.8	3094.9
32.5°	2987.1	2951.7	2937.6	2946.4	2969.4	2990.6	3003.0	3008.3	3017.1	3027.7	3036.6
35°	2865.1	2854.5	2866.9	2886.3	2909.3	2927.0	2937.6	2948.2	2957.0	2965.9	2972.9
37.5°	2775.0	2782.0	2799.7	2824.5	2847.4	2861.6	2870.4	2882.8	2895.2	2905.8	2863.3
40°	2690.1	2707.8	2727.2	2753.8	2773.2	2787.3	2796.2	2812.1	2706.0	1224.9	671.6
42.5°	2615.9	2635.3	2649.5	2670.7	2691.9	2702.5	2624.7	1171.8	662.8	659.3	668.1
45°	2525.7	2541.7	2564.6	2580.5	2600.0	1707.4	652.2	659.3	648.7	655.7	659.3
47.5°	2433.8	2458.6	2471.0	2357.8	701.7	648.7	641.6	648.7	641.6	650.4	645.1
50°	2329.6	2359.6	1679.1	634.5	629.2	625.7	632.8	629.2	634.5	641.6	627.5
52.5°	2223.5	1376.9	615.1	611.6	615.1	611.6	623.9	615.1	616.9	609.8	592.1
55°	753.0	595.6	590.3	588.6	599.2	599.2	599.2	585.0	576.2	558.5	546.2
57.5°	576.2	576.2	574.4	576.2	572.7	569.1	553.2	540.9	528.5	503.7	496.7
60°	546.2	546.2	546.2	546.2	530.2	523.2	498.4	487.8	466.6	454.2	447.2
62.5°	521.4	517.9	502.0	496.7	479.0	459.5	445.4	434.8	413.6	406.5	401.2
65°	486.1	473.7	454.2	433.0	424.2	403.0	395.9	380.0	369.4	364.1	360.6
67.5°	427.7	410.1	394.2	380.0	364.1	357.0	348.2	335.8	328.8	325.2	321.7
70°	365.9	353.5	337.6	328.8	318.1	312.8	300.5	296.9	291.6	286.3	281.0
72.5°	305.8	298.7	291.6	279.3	275.7	272.2	259.8	252.8	245.7	238.6	235.1
75°	256.3	251.0	247.4	236.8	231.5	220.9	212.1	206.8	201.5	196.2	192.7
77.5°	210.3	206.8	196.2	189.1	185.6	176.7	173.2	175.0	171.4	164.4	160.8
80°	164.4	160.8	152.0	152.0	148.5	144.9	141.4	137.9	134.3	129.0	125.5
82.5°	125.5	122.0	118.4	114.9	111.4	109.6	107.8	104.3	100.7	97.2	95.4
85°	88.4	86.6	84.8	83.1	81.3	79.5	77.8	74.2	70.7	68.9	67.2
87.5°	60.1	58.3	56.6	54.8	53.0	51.3	49.5	47.7	44.2	42.4	40.7
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°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	4169.5	4178.4	4169.5	4150.1	4137.7	4132.4	4143.0	4143.0	4150.1	4158.9	4160.7
5°	4104.1	4082.9	4058.2	4033.4	4021.0	4014.0	3994.5	3998.1	4003.4	4006.9	4010.4
7.5°	3941.5	3913.2	3879.6	3847.8	3835.5	3824.9	3801.9	3801.9	3801.9	3803.6	3814.2
10°	3775.4	3763.0	3748.9	3727.6	3711.7	3706.4	3687.0	3692.3	3688.8	3694.1	3706.4
12.5°	3697.6	3683.5	3671.1	3649.9	3632.2	3625.1	3616.3	3621.6	3619.8	3628.7	3639.3
15°	3626.9	3619.8	3605.7	3589.8	3573.9	3559.7	3527.9	3517.3	3510.2	3501.4	3513.8
17.5°	3510.2	3460.7	3427.2	3402.4	3384.7	3372.4	3363.5	3363.5	3368.8	3374.1	3384.7
20°	3351.2	3337.0	3321.1	3294.6	3276.9	3269.9	3264.6	3264.6	3273.4	3280.5	3299.9
22.5°	3241.6	3239.8	3234.5	3222.1	3213.3	3213.3	3215.1	3218.6	3231.0	3241.6	3261.0
25°	3190.3	3197.4	3193.9	3186.8	3181.5	3183.3	3179.7	3183.3	3195.6	3206.2	3222.1
27.5°	3149.7	3160.3	3156.7	3146.1	3137.3	3140.8	3146.1	3142.6	3153.2	3165.6	3178.0
30°	3094.9	3096.6	3103.7	3091.3	3087.8	3093.1	3094.9	3098.4	3109.0	3117.9	3128.5
32.5°	3033.0	3047.2	3045.4	3033.0	3033.0	3038.3	3040.1	2921.7	2700.7	2326.0	2223.5
35°	2972.9	2988.8	2962.3	2497.5	1728.6	922.6	712.3	687.6	692.9	696.4	699.9
37.5°	2198.8	1042.8	664.6	669.9	675.2	680.5	685.8	691.1	696.4	701.7	703.5
40°	661.0	659.3	664.6	671.6	676.9	680.5	687.6	692.9	698.2	703.5	705.2
42.5°	654.0	657.5	662.8	669.9	676.9	684.0	689.3	696.4	699.9	703.5	705.2
45°	650.4	657.5	664.6	669.9	675.2	678.7	682.3	684.0	682.3	682.3	685.8
47.5°	645.1	652.2	654.0	652.2	654.0	652.2	652.2	652.2	646.9	645.1	645.1
50°	625.7	625.7	622.2	615.1	613.3	611.6	608.0	606.2	599.2	597.4	597.4
52.5°	585.0	583.3	578.0	569.1	565.6	562.1	560.3	558.5	551.5	547.9	549.7
55°	537.3	533.8	528.5	517.9	516.1	512.6	510.8	509.0	502.0	505.5	500.2
57.5°	493.1	486.1	479.0	477.2	470.2	468.4	466.6	464.9	459.5	461.3	457.8
60°	440.1	438.3	434.8	427.7	427.7	426.0	426.0	422.4	418.9	417.1	417.1
62.5°	401.2	395.9	392.4	392.4	387.1	387.1	387.1	383.5	380.0	381.8	380.0
65°	358.8	357.0	355.3	351.7	351.7	350.0	350.0	346.4	341.1	342.9	339.4
67.5°	323.5	319.9	316.4	314.6	307.5	304.0	302.2	300.5	293.4	295.2	291.6
70°	279.3	274.0	270.4	266.9	261.6	258.1	258.1	254.5	249.2	251.0	247.4
72.5°	233.3	229.8	226.2	224.5	219.2	217.4	215.6	213.9	208.6	210.3	208.6
75°	194.4	194.4	192.7	190.9	185.6	180.3	176.7	175.0	171.4	173.2	169.7
77.5°	160.8	157.3	153.8	153.8	148.5	144.9	141.4	141.4	141.4	139.6	137.9
80°	125.5	122.0	122.0	120.2	116.7	113.1	111.4	111.4	109.6	109.6	107.8
82.5°	95.4	91.9	90.1	90.1	86.6	84.8	83.1	81.3	81.3	81.3	79.5
85°	67.2	63.6	61.9	61.9	58.3	56.6	56.6	54.8	54.8	53.0	53.0
87.5°	40.7	38.9	37.1	37.1	33.6	31.8	31.8	31.8	30.0	30.0	28.3
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: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	4160.7	4160.7	4148.3	4151.8	4146.5	4153.6	4144.8	4144.8	4155.4	4155.4	4162.4
5°	4012.2	4003.4	4001.6	3998.1	3980.4	3987.5	3978.6	3969.8	3982.2	3982.2	3998.1
7.5°	3808.9	3793.0	3800.1	3789.5	3778.9	3763.0	3768.3	3761.2	3770.1	3782.4	3798.3
10°	3704.7	3690.5	3699.4	3688.8	3694.1	3671.1	3672.8	3674.6	3683.5	3687.0	3701.1
12.5°	3637.5	3634.0	3630.4	3626.9	3630.4	3618.1	3611.0	3612.8	3616.3	3618.1	3628.7
15°	3496.1	3473.1	3480.2	3455.4	3457.2	3459.0	3444.8	3459.0	3457.2	3480.2	3501.4
17.5°	3381.2	3381.2	3368.8	3358.2	3351.2	3349.4	3338.8	3345.9	3338.8	3352.9	3358.2
20°	3301.7	3299.9	3298.1	3292.8	3275.2	3276.9	3282.2	3266.3	3264.6	3262.8	3273.4
22.5°	3264.6	3266.3	3259.3	3259.3	3243.3	3246.9	3248.7	3231.0	3232.7	3227.4	3232.7
25°	3225.7	3229.2	3220.4	3220.4	3216.8	3215.1	3206.2	3209.8	3199.2	3190.3	3199.2
27.5°	3179.7	3186.8	3179.7	3183.3	3176.2	3172.6	3167.3	3163.8	3153.2	3151.4	3156.7
30°	3137.3	3140.8	3139.1	3130.2	3128.5	3117.9	3123.2	3112.6	3101.9	3103.7	3107.3
32.5°	1608.4	1536.0	1184.2	1069.3	1058.7	1097.6	1300.9	1583.7	2052.1	2506.3	2833.3
35°	701.7	701.7	701.7	699.9	699.9	698.2	696.4	694.6	692.9	691.1	689.3
37.5°	705.2	705.2	705.2	705.2	703.5	701.7	701.7	698.2	696.4	694.6	692.9
40°	707.0	708.8	708.8	708.8	707.0	707.0	705.2	701.7	699.9	696.4	692.9
42.5°	705.2	707.0	707.0	705.2	705.2	703.5	703.5	701.7	699.9	698.2	696.4
45°	682.3	684.0	680.5	680.5	678.7	678.7	678.7	678.7	678.7	680.5	680.5
47.5°	641.6	641.6	639.8	638.1	638.1	636.3	638.1	636.3	639.8	641.6	645.1
50°	593.9	593.9	590.3	588.6	588.6	588.6	588.6	590.3	592.1	595.6	599.2
52.5°	544.4	544.4	542.6	540.9	539.1	539.1	544.4	542.6	544.4	546.2	551.5
55°	496.7	498.4	494.9	494.9	493.1	493.1	493.1	494.9	496.7	498.4	503.7
57.5°	456.0	456.0	452.5	452.5	452.5	450.7	456.0	452.5	454.2	456.0	459.5
60°	415.4	413.6	413.6	411.8	411.8	411.8	415.4	413.6	413.6	415.4	418.9
62.5°	378.2	378.2	376.5	376.5	374.7	374.7	378.2	376.5	376.5	378.2	380.0
65°	335.8	335.8	334.1	332.3	337.6	332.3	337.6	334.1	337.6	339.4	342.9
67.5°	288.1	288.1	288.1	286.3	286.3	289.9	291.6	288.1	289.9	293.4	295.2
70°	245.7	245.7	243.9	243.9	243.9	247.4	249.2	245.7	247.4	249.2	252.8
72.5°	208.6	205.0	205.0	203.3	206.8	206.8	208.6	206.8	208.6	208.6	212.1
75°	171.4	167.9	167.9	167.9	171.4	169.7	171.4	169.7	171.4	171.4	173.2
77.5°	137.9	136.1	134.3	134.3	137.9	137.9	137.9	136.1	137.9	139.6	141.4
80°	107.8	106.0	104.3	104.3	107.8	107.8	107.8	109.6	107.8	109.6	111.4
82.5°	79.5	77.8	76.0	79.5	79.5	79.5	79.5	81.3	79.5	81.3	83.1
85°	53.0	51.3	49.5	53.0	53.0	53.0	53.0	54.8	53.0	54.8	56.6
87.5°	28.3	26.5	26.5	28.3	28.3	28.3	30.0	30.0	30.0	31.8	31.8
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	4173.0	4178.4	4176.6	4166.0	4155.4	4143.0	4134.2	4135.9	4153.6	4158.9	4143.0
5°	3998.1	4031.6	4031.6	4054.6	4042.3	4031.6	4038.7	4077.6	4097.0	4127.1	4137.7
7.5°	3817.8	3833.7	3831.9	3854.9	3851.4	3851.4	3856.7	3907.9	3932.7	3957.4	3964.5
10°	3717.0	3732.9	3731.2	3732.9	3727.6	3715.3	3715.3	3738.2	3759.5	3771.8	3775.4
12.5°	3644.6	3653.4	3651.6	3651.6	3648.1	3637.5	3635.7	3655.2	3678.2	3694.1	3695.8
15°	3536.8	3561.5	3566.8	3589.8	3584.5	3570.3	3573.9	3589.8	3603.9	3618.1	3612.8
17.5°	3375.9	3388.3	3390.0	3398.9	3395.4	3395.4	3416.6	3474.9	3513.8	3547.4	3550.9
20°	3284.0	3292.8	3289.3	3308.7	3299.9	3298.1	3303.4	3328.2	3345.9	3361.8	3390.0
22.5°	3239.8	3246.9	3241.6	3243.3	3227.4	3213.3	3209.8	3229.2	3248.7	3269.9	3269.9
25°	3202.7	3208.0	3206.2	3202.7	3190.3	3170.9	3167.3	3170.9	3178.0	3179.7	3167.3
27.5°	3158.5	3162.0	3162.0	3163.8	3147.9	3130.2	3126.7	3123.2	3130.2	3128.5	3109.0
30°	3112.6	3107.3	3109.0	3110.8	3096.6	3080.7	3073.7	3071.9	3079.0	3077.2	3057.8
32.5°	3003.0	3043.6	3047.2	3050.7	3038.3	3024.2	3017.1	3011.8	3015.3	3013.6	2995.9
35°	687.6	699.9	857.2	1940.7	2635.3	2918.1	2948.2	2941.1	2942.9	2942.9	2928.7
37.5°	689.3	687.6	685.8	680.5	675.2	671.6	1161.2	2476.3	2868.6	2870.4	2858.0
40°	689.3	687.6	685.8	682.3	675.2	669.9	661.0	654.0	669.9	1474.1	2697.2
42.5°	692.9	689.3	685.8	682.3	675.2	668.1	661.0	652.2	657.5	654.0	645.1
45°	682.3	680.5	680.5	678.7	675.2	668.1	659.3	648.7	643.4	648.7	639.8
47.5°	648.7	650.4	655.7	657.5	657.5	659.3	654.0	646.9	638.1	643.4	632.8
50°	602.7	606.2	608.0	616.9	620.4	627.5	629.2	629.2	627.5	634.5	627.5
52.5°	553.2	556.8	565.6	569.1	572.7	583.3	586.8	592.1	595.6	606.2	613.3
55°	505.5	507.3	510.8	517.9	523.2	532.0	537.3	542.6	551.5	556.8	578.0
57.5°	461.3	463.1	470.2	471.9	475.5	482.5	487.8	494.9	502.0	505.5	530.2
60°	418.9	420.7	426.0	427.7	429.5	436.6	441.9	447.2	452.5	456.0	473.7
62.5°	381.8	381.8	387.1	387.1	388.8	394.2	397.7	401.2	406.5	408.3	417.1
65°	344.7	346.4	350.0	350.0	351.7	355.3	357.0	358.8	364.1	364.1	371.2
67.5°	298.7	300.5	305.8	309.3	311.1	318.1	319.9	321.7	325.2	327.0	330.5
70°	254.5	256.3	261.6	263.4	265.1	270.4	274.0	279.3	284.6	289.9	293.4
72.5°	213.9	215.6	220.9	220.9	226.2	228.0	231.5	233.3	238.6	242.1	247.4
75°	175.0	176.7	182.1	182.1	187.4	189.1	190.9	192.7	196.2	199.7	203.3
77.5°	143.2	143.2	150.2	153.8	157.3	157.3	159.1	159.1	159.1	160.8	164.4
80°	113.1	113.1	118.4	122.0	125.5	125.5	127.3	129.0	130.8	130.8	132.6
82.5°	84.8	84.8	90.1	91.9	95.4	95.4	95.4	97.2	99.0	97.2	100.7
85°	58.3	58.3	61.9	63.6	67.2	67.2	67.2	68.9	70.7	68.9	70.7
87.5°	33.6	35.3	37.1	38.9	40.7	42.4	42.4	42.4	44.2	44.2	46.0
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: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	4125.3	4104.1	4102.3	4077.6	4070.5	4072.3	4052.9	4045.8	4014.0	4006.9	3973.3
5°	4141.2	4151.8	4146.5	4144.8	4150.1	4146.5	4132.4	4125.3	4120.0	4105.9	4077.6
7.5°	3966.3	3973.3	3978.6	4001.6	4021.0	4054.6	4090.0	4113.0	4130.6	4134.2	4111.2
10°	3787.7	3821.3	3844.3	3879.6	3907.9	3927.4	3948.6	3968.0	4019.3	4070.5	4100.6
12.5°	3695.8	3704.7	3702.9	3722.3	3741.8	3793.0	3842.5	3870.8	3909.7	3932.7	3987.5
15°	3618.1	3619.8	3625.1	3639.3	3649.9	3667.5	3690.5	3732.9	3810.7	3846.1	3876.1
17.5°	3547.4	3547.4	3550.9	3563.3	3577.4	3593.3	3607.5	3625.1	3664.0	3722.3	3796.6
20°	3434.2	3483.7	3489.0	3487.3	3494.3	3524.4	3527.9	3559.7	3579.2	3602.1	3674.6
22.5°	3266.3	3296.4	3338.8	3404.2	3428.9	3443.1	3453.7	3467.8	3497.9	3524.4	3554.4
25°	3174.4	3193.9	3206.2	3225.7	3276.9	3360.0	3375.9	3391.8	3411.3	3430.7	3467.8
27.5°	3093.1	3091.3	3100.2	3117.9	3132.0	3176.2	3254.0	3315.8	3319.3	3347.6	3379.4
30°	3034.8	3024.2	3011.8	3008.3	3027.7	3050.7	3073.7	3170.9	3238.0	3252.2	3285.8
32.5°	2980.0	2962.3	2944.6	2930.5	2918.1	2937.6	2951.7	2994.1	3080.7	3162.0	3179.7
35°	2912.8	2895.2	2873.9	2858.0	2838.6	2836.8	2835.1	2875.7	2904.0	3001.2	3086.0
37.5°	2843.9	2824.5	2806.8	2789.1	2769.7	2755.5	2746.7	2757.3	2783.8	2826.2	2967.6
40°	2771.4	2748.5	2730.8	2716.6	2690.1	2679.5	2661.8	2654.8	2656.5	2693.7	2767.9
42.5°	1656.1	2640.6	2649.5	2633.6	2610.6	2596.4	2577.0	2568.2	2550.5	2568.2	2610.6
45°	638.1	645.1	1931.9	2552.3	2524.0	2506.3	2488.6	2479.8	2460.3	2446.2	2485.1
47.5°	625.7	632.8	618.6	876.7	2409.1	2414.4	2393.2	2384.3	2364.9	2354.3	2343.7
50°	616.9	622.2	611.6	615.1	602.7	2207.6	2296.0	2285.4	2264.2	2251.8	2230.6
52.5°	608.0	608.0	600.9	592.1	588.6	590.3	1857.6	2184.6	2159.9	2147.5	2119.2
55°	579.7	583.3	590.3	576.2	572.7	570.9	565.6	1769.3	2045.0	2030.8	2006.1
57.5°	537.3	544.4	563.8	560.3	560.3	546.2	542.6	542.6	1642.0	1912.4	1887.7
60°	487.8	494.9	516.1	523.2	528.5	524.9	521.4	519.6	512.6	1730.4	1762.2
62.5°	436.6	443.6	450.7	473.7	480.8	489.6	500.2	494.9	487.8	487.8	1629.6
65°	381.8	392.4	395.9	417.1	426.0	441.9	450.7	463.1	459.5	457.8	466.6
67.5°	334.1	346.4	348.2	357.0	372.9	380.0	390.6	413.6	424.2	427.7	431.3
70°	293.4	300.5	305.8	309.3	319.9	321.7	341.1	357.0	372.9	390.6	395.9
72.5°	252.8	258.1	268.7	265.1	268.7	275.7	286.3	296.9	312.8	337.6	353.5
75°	206.8	210.3	217.4	220.9	228.0	233.3	240.4	249.2	263.4	275.7	296.9
77.5°	166.1	167.9	173.2	175.0	182.1	187.4	199.7	205.0	213.9	222.7	235.1
80°	134.3	134.3	136.1	136.1	141.4	146.7	155.5	160.8	171.4	178.5	178.5
82.5°	102.5	102.5	107.8	107.8	111.4	111.4	116.7	116.7	122.0	125.5	129.0
85°	72.5	74.2	77.8	76.0	79.5	77.8	81.3	84.8	86.6	84.8	83.1
87.5°	47.7	47.7	51.3	49.5	51.3	51.3	54.8	54.8	56.6	56.6	54.8
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3960.9	3934.4	3918.5	3899.1	3893.8	3888.5	3895.6	3895.6	3884.9	3876.1	3860.2
5°	4052.9	4024.6	3994.5	3962.7	3932.7	3900.9	3888.5	3886.7	3867.3	3856.7	3851.4
7.5°	4100.6	4086.4	4052.9	4008.7	3962.7	3906.2	3881.4	3867.3	3847.8	3844.3	3844.3
10°	4105.9	4090.0	4072.3	4040.5	3987.5	3913.2	3865.5	3837.2	3819.6	3831.9	3854.9
12.5°	4054.6	4084.7	4068.8	4047.6	4005.1	3915.0	3846.1	3803.6	3798.3	3830.2	3890.2
15°	3923.8	4012.2	4056.4	4035.2	4001.6	3911.5	3814.2	3764.8	3764.8	3830.2	3907.9
17.5°	3824.9	3893.8	4001.6	4019.3	3980.4	3904.4	3784.2	3725.9	3741.8	3837.2	3920.3
20°	3743.5	3786.0	3890.2	3989.2	3952.1	3888.5	3740.0	3679.9	3711.7	3826.6	3938.0
22.5°	3616.3	3701.1	3764.8	3911.5	3923.8	3858.4	3695.8	3623.4	3687.0	3826.6	3929.1
25°	3492.6	3595.1	3662.2	3805.4	3881.4	3821.3	3655.2	3563.3	3660.5	3821.3	3922.1
27.5°	3406.0	3453.7	3575.6	3678.2	3817.8	3771.8	3600.4	3497.9	3626.9	3793.0	3881.4
30°	3314.0	3345.9	3466.1	3563.3	3732.9	3715.3	3543.8	3425.4	3584.5	3766.5	3775.4
32.5°	3213.3	3248.7	3310.5	3451.9	3614.5	3662.2	3480.2	3352.9	3538.5	3725.9	3651.6
35°	3110.8	3137.3	3186.8	3338.8	3476.7	3582.7	3402.4	3269.9	3506.7	3664.0	3533.2
37.5°	3008.3	3036.6	3079.0	3206.2	3331.7	3508.5	3335.3	3186.8	3448.4	3554.4	3409.5
40°	2911.1	2927.0	2971.2	3050.7	3211.5	3432.5	3259.3	3100.2	3388.3	3414.8	3241.6
42.5°	2732.5	2812.1	2852.7	2916.4	3075.4	3328.2	3170.9	3008.3	3321.1	3275.2	3073.7
45°	2539.9	2713.1	2730.8	2794.4	2955.2	3216.8	3087.8	2918.1	3257.5	3155.0	2914.6
47.5°	2382.6	2508.1	2610.6	2663.6	2812.1	3086.0	3010.0	2842.1	3162.0	3003.0	2759.1
50°	2242.9	2310.1	2495.7	2534.6	2640.6	2928.7	2918.1	2753.8	3029.5	2812.1	2607.1
52.5°	2106.9	2154.6	2322.5	2405.6	2492.2	2759.1	2808.5	2667.1	2884.5	2621.2	2453.3
55°	1988.4	2004.3	2096.2	2271.2	2349.0	2587.6	2688.4	2566.4	2700.7	2439.1	2304.8
57.5°	1866.5	1852.3	1919.5	2144.0	2200.5	2412.6	2561.1	2463.9	2552.3	2253.6	2151.0
60°	1739.2	1719.8	1748.0	1896.5	2043.2	2239.4	2410.9	2350.8	2372.0	2069.7	1979.6
62.5°	1606.7	1587.2	1578.4	1672.0	1889.4	2060.9	2258.9	2225.3	2151.0	1901.8	1767.5
65°	1468.8	1449.3	1435.2	1472.3	1719.8	1829.4	2089.2	2080.3	1908.9	1725.1	1488.2
67.5°	447.2	1318.5	1288.5	1286.7	1449.3	1619.0	1905.4	1891.2	1665.0	1536.0	1281.4
70°	403.0	1069.3	1136.5	1120.6	1191.3	1405.2	1695.0	1684.4	1428.1	1231.9	1133.0
72.5°	369.4	378.2	1003.9	986.3	1002.2	1194.8	1475.9	1447.6	1210.7	972.1	979.2
75°	316.4	332.3	346.4	832.5	811.3	989.8	1237.2	1193.1	998.6	802.4	818.3
77.5°	258.1	277.5	288.1	606.2	655.7	705.2	988.0	929.7	687.6	641.6	305.8
80°	192.7	208.6	226.2	242.1	498.4	493.1	733.5	675.2	479.0	399.5	238.6
82.5°	141.4	146.7	157.3	175.0	198.0	330.5	471.9	415.4	332.3	182.1	164.4
85°	88.4	95.4	100.7	106.0	120.2	198.0	233.3	185.6	139.6	111.4	104.3
87.5°	56.6	56.6	54.8	56.6	58.3	70.7	79.5	76.0	60.1	56.6	56.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3842.5	3817.8	3817.8	3810.7	3816.0	3816.0	3814.2	3816.0	3828.4	3835.5	3847.8
5°	3840.8	3833.7	3849.6	3869.0	3892.0	3920.3	3927.4	3952.1	3975.1	4005.1	4037.0
7.5°	3863.7	3888.5	3918.5	3950.3	3996.3	4029.9	4059.9	4090.0	4111.2	4139.5	4157.1
10°	3897.3	3946.8	3998.1	4038.7	4088.2	4116.5	4135.9	4139.5	4109.4	4061.7	4022.8
12.5°	3945.0	4003.4	4051.1	4090.0	4113.0	4102.3	4045.8	3987.5	3953.9	3904.4	3835.5
15°	3985.7	4038.7	4088.2	4072.3	4010.4	3952.1	3907.9	3839.0	3771.8	3725.9	3695.8
17.5°	4003.4	4054.6	4037.0	3953.9	3895.6	3828.4	3738.2	3685.2	3641.0	3605.7	3588.0
20°	4014.0	4005.1	3909.7	3849.6	3736.5	3674.6	3616.3	3566.8	3533.2	3515.5	3512.0
22.5°	3985.7	3877.9	3796.6	3688.8	3605.7	3554.4	3508.5	3467.8	3444.8	3430.7	3421.9
25°	3892.0	3766.5	3646.3	3561.5	3490.8	3446.6	3411.3	3377.7	3349.4	3342.3	3324.7
27.5°	3761.2	3658.7	3499.6	3434.2	3372.4	3351.2	3312.3	3278.7	3254.0	3232.7	3176.2
30°	3653.4	3490.8	3375.9	3315.8	3278.7	3254.0	3209.8	3174.4	3132.0	3054.2	3022.4
32.5°	3520.8	3360.0	3250.4	3216.8	3170.9	3149.7	3100.2	3022.4	2957.0	2925.2	2923.4
35°	3349.4	3216.8	3137.3	3107.3	3070.1	3034.8	2932.3	2861.6	2829.8	2833.3	2859.8
37.5°	3206.2	3087.8	3036.6	2994.1	2951.7	2861.6	2775.0	2741.4	2750.2	2767.9	2780.3
40°	3061.3	2971.2	2912.8	2879.2	2783.8	2695.4	2649.5	2661.8	2677.8	2690.1	2706.0
42.5°	2919.9	2856.3	2797.9	2732.5	2601.7	2554.0	2564.6	2580.5	2594.7	2612.4	2628.3
45°	2785.6	2729.0	2661.8	2513.4	2448.0	2460.3	2476.3	2488.6	2509.8	2522.2	2538.1
47.5°	2658.3	2598.2	2479.8	2349.0	2341.9	2366.7	2380.8	2396.7	2412.6	2380.8	1313.2
50°	2515.1	2453.3	2273.0	2223.5	2239.4	2262.4	2280.1	2296.0	2045.0	813.0	625.7
52.5°	2373.7	2216.4	2101.5	2115.7	2131.6	2158.1	2170.5	1612.0	641.6	611.6	613.3
55°	2216.4	2014.9	1981.4	1999.0	2013.2	2039.7	1352.1	592.1	588.6	586.8	600.9
57.5°	1969.0	1847.0	1861.2	1878.8	1893.0	1336.2	576.2	572.7	574.4	576.2	578.0
60°	1748.0	1721.5	1737.4	1753.4	1240.8	556.8	546.2	547.9	555.0	549.7	535.6
62.5°	1573.1	1594.3	1610.2	1410.5	528.5	523.2	528.5	523.2	510.8	502.0	484.3
65°	1438.7	1459.9	1472.3	496.7	494.9	502.0	496.7	479.0	459.5	434.8	429.5
67.5°	1297.3	1318.5	471.9	459.5	466.6	457.8	436.6	415.4	401.2	380.0	371.2
70°	1150.6	493.1	427.7	426.0	413.6	399.5	376.5	355.3	337.6	328.8	319.9
72.5°	830.7	390.6	385.3	371.2	350.0	330.5	311.1	298.7	289.9	284.6	279.3
75°	346.4	339.4	323.5	298.7	277.5	268.7	254.5	245.7	242.1	231.5	228.0
77.5°	289.9	275.7	252.8	235.1	222.7	217.4	206.8	196.2	190.9	189.1	182.1
80°	222.7	203.3	192.7	183.8	180.3	167.9	155.5	150.2	146.7	144.9	139.6
82.5°	152.0	144.9	137.9	125.5	125.5	120.2	114.9	111.4	107.8	107.8	104.3
85°	99.0	93.7	91.9	86.6	86.6	83.1	81.3	79.5	77.8	76.0	74.2
87.5°	56.6	56.6	58.3	56.6	56.6	54.8	53.0	51.3	49.5	49.5	46.0
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: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3863.7	3881.4	3884.9	3945.0	3978.6	3976.9	3966.3	3998.1	3978.6	3968.0	3978.6
5°	4068.8	4090.0	4107.7	4173.0	4196.0	4206.6	4204.9	4222.5	4208.4	4196.0	4196.0
7.5°	4169.5	4176.6	4183.7	4167.7	4157.1	4139.5	4113.0	4074.1	4054.6	4033.4	4006.9
10°	4003.4	3980.4	3989.2	3957.4	3930.9	3911.5	3886.7	3854.9	3828.4	3808.9	3778.9
12.5°	3800.1	3798.3	3801.9	3807.2	3780.7	3764.8	3745.3	3722.3	3702.9	3681.7	3656.9
15°	3676.4	3678.2	3692.3	3687.0	3678.2	3669.3	3648.1	3641.0	3623.4	3600.4	3586.2
17.5°	3588.0	3596.8	3611.0	3603.9	3589.8	3580.9	3565.0	3549.1	3533.2	3515.5	3494.3
20°	3510.2	3519.1	3527.9	3519.1	3492.6	3480.2	3459.0	3409.5	3374.1	3338.8	3307.0
22.5°	3425.4	3430.7	3423.6	3395.4	3328.2	3296.4	3271.6	3257.5	3227.4	3208.0	3188.6
25°	3319.3	3289.3	3243.3	3211.5	3185.0	3170.9	3160.3	3158.5	3155.0	3151.4	3142.6
27.5°	3146.1	3135.5	3110.8	3098.4	3100.2	3105.5	3107.3	3112.6	3107.3	3100.2	3093.1
30°	3017.1	3022.4	3024.2	3027.7	3036.6	3041.9	3043.6	3050.7	3047.2	3041.9	3038.3
32.5°	2935.8	2948.2	2955.2	2965.9	2971.2	2980.0	2980.0	2990.6	2980.0	2978.2	2974.7
35°	2868.6	2879.2	2882.8	2898.7	2904.0	2912.8	2912.8	2921.7	2912.8	2822.7	2228.8
37.5°	2801.5	2812.1	2819.1	2833.3	2835.1	2840.4	2621.2	1917.7	1237.2	958.0	731.7
40°	2721.9	2734.3	2741.4	2746.7	1930.1	1224.9	843.1	685.8	685.8	691.1	696.4
42.5°	2637.1	2645.9	1843.5	1072.9	668.1	666.3	671.6	676.9	682.3	689.3	696.4
45°	2073.3	1046.4	664.6	648.7	654.0	661.0	668.1	675.2	684.0	691.1	694.6
47.5°	680.5	638.1	646.9	639.8	648.7	657.5	664.6	671.6	673.4	675.2	673.4
50°	629.2	629.2	634.5	634.5	641.6	645.1	645.1	645.1	638.1	636.3	631.0
52.5°	608.0	622.2	615.1	618.6	615.1	609.8	604.5	599.2	588.6	585.0	578.0
55°	597.4	602.7	585.0	579.7	572.7	558.5	551.5	544.4	535.6	532.0	523.2
57.5°	572.7	560.3	540.9	532.0	519.6	505.5	498.4	493.1	484.3	480.8	475.5
60°	526.7	502.0	489.6	479.0	464.9	452.5	447.2	443.6	436.6	434.8	429.5
62.5°	470.2	448.9	438.3	424.2	413.6	406.5	401.2	399.5	392.4	392.4	388.8
65°	408.3	397.7	388.8	374.7	369.4	362.3	360.6	358.8	355.3	353.5	350.0
67.5°	358.8	351.7	339.4	332.3	328.8	323.5	319.9	316.4	309.3	305.8	300.5
70°	314.6	309.3	296.9	291.6	284.6	275.7	270.4	266.9	261.6	258.1	252.8
72.5°	272.2	256.3	247.4	242.1	236.8	228.0	226.2	222.7	217.4	215.6	210.3
75°	219.2	206.8	201.5	198.0	192.7	187.4	187.4	187.4	182.1	180.3	178.5
77.5°	175.0	167.9	164.4	160.8	159.1	155.5	150.2	148.5	143.2	143.2	141.4
80°	134.3	130.8	127.3	125.5	123.7	120.2	116.7	114.9	109.6	109.6	107.8
82.5°	99.0	97.2	95.4	93.7	91.9	90.1	84.8	83.1	79.5	79.5	77.8
85°	70.7	68.9	65.4	63.6	63.6	61.9	56.6	54.8	51.3	51.3	51.3
87.5°	44.2	42.4	40.7	38.9	37.1	35.3	31.8	30.0	30.0	26.5	24.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3957.4	3987.5	3983.9	4005.1	4010.4	4021.0	4024.6	4026.3	3999.8	4021.0	4022.8
5°	4190.7	4196.0	4199.6	4208.4	4217.2	4219.0	4210.2	4199.6	4203.1	4196.0	4178.4
7.5°	4003.4	3976.9	3971.6	3964.5	3960.9	3957.4	3941.5	3955.6	3939.7	3932.7	3907.9
10°	3773.6	3748.9	3747.1	3747.1	3752.4	3750.6	3747.1	3740.0	3754.2	3745.3	3740.0
12.5°	3653.4	3644.6	3649.9	3646.3	3660.5	3664.0	3660.5	3660.5	3656.9	3649.9	3653.4
15°	3580.9	3573.9	3579.2	3573.9	3584.5	3586.2	3577.4	3582.7	3573.9	3565.0	3561.5
17.5°	3485.5	3469.6	3457.2	3439.5	3441.3	3437.8	3427.2	3427.2	3418.3	3395.4	3397.1
20°	3301.7	3285.8	3278.7	3278.7	3287.5	3291.1	3289.3	3292.8	3284.0	3280.5	3266.3
22.5°	3186.8	3185.0	3188.6	3197.4	3211.5	3231.0	3232.7	3232.7	3232.7	3231.0	3213.3
25°	3146.1	3146.1	3149.7	3162.0	3172.6	3186.8	3190.3	3193.9	3190.3	3190.3	3174.4
27.5°	3100.2	3096.6	3103.7	3116.1	3128.5	3139.1	3147.9	3149.7	3144.4	3144.4	3149.7
30°	3043.6	3041.9	3050.7	3063.1	3073.7	3084.3	3093.1	3100.2	3093.1	3093.1	3087.8
32.5°	2985.3	2985.3	2988.8	2914.6	2702.5	2433.8	2439.1	2283.6	2175.8	2039.7	2220.0
35°	1862.9	1355.7	1164.8	986.3	860.8	779.5	777.7	751.2	738.8	730.0	728.2
37.5°	703.5	707.0	714.1	717.6	722.9	726.4	728.2	728.2	728.2	728.2	726.4
40°	701.7	708.8	714.1	719.4	724.7	728.2	728.2	730.0	731.7	731.7	731.7
42.5°	703.5	710.5	717.6	722.9	726.4	728.2	730.0	731.7	731.7	731.7	731.7
45°	701.7	705.2	705.2	707.0	707.0	707.0	708.8	708.8	707.0	705.2	708.8
47.5°	675.2	675.2	669.9	668.1	666.3	662.8	664.6	662.8	661.0	659.3	662.8
50°	629.2	622.2	618.6	615.1	613.3	609.8	611.6	609.8	608.0	604.5	609.8
52.5°	574.4	572.7	565.6	562.1	560.3	562.1	558.5	556.8	555.0	553.2	555.0
55°	521.4	514.3	512.6	509.0	507.3	509.0	507.3	505.5	503.7	502.0	503.7
57.5°	473.7	468.4	466.6	463.1	463.1	463.1	463.1	461.3	459.5	457.8	459.5
60°	427.7	424.2	422.4	422.4	420.7	420.7	420.7	418.9	417.1	417.1	418.9
62.5°	388.8	388.8	383.5	381.8	381.8	383.5	381.8	380.0	378.2	376.5	380.0
65°	348.2	341.1	339.4	335.8	332.3	334.1	332.3	330.5	328.8	327.0	330.5
67.5°	298.7	296.9	289.9	286.3	284.6	286.3	284.6	282.8	281.0	279.3	282.8
70°	251.0	251.0	243.9	242.1	240.4	240.4	238.6	238.6	236.8	235.1	238.6
72.5°	208.6	208.6	206.8	203.3	201.5	199.7	198.0	196.2	196.2	198.0	198.0
75°	173.2	169.7	162.6	164.4	162.6	160.8	160.8	159.1	157.3	160.8	159.1
77.5°	136.1	134.3	129.0	130.8	129.0	127.3	127.3	125.5	123.7	125.5	125.5
80°	102.5	102.5	100.7	99.0	99.0	97.2	95.4	95.4	93.7	95.4	95.4
82.5°	74.2	74.2	72.5	70.7	68.9	68.9	67.2	67.2	67.2	67.2	67.2
85°	47.7	46.0	46.0	42.4	42.4	42.4	40.7	40.7	40.7	40.7	40.7
87.5°	23.0	23.0	21.2	21.2	19.4	17.7	17.7	15.9	15.9	17.7	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: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3991.0	4014.0	3994.5	4003.4	4005.1	4035.2	4033.4	4040.5	4028.1	4014.0	3994.5
5°	4194.3	4183.7	4169.5	4203.1	4185.4	4206.6	4213.7	4227.8	4227.8	4226.1	4210.2
7.5°	3934.4	3911.5	3929.1	3941.5	3946.8	3932.7	3960.9	3992.8	4019.3	4035.2	4037.0
10°	3731.2	3738.2	3736.5	3741.8	3754.2	3752.4	3770.1	3787.7	3794.8	3805.4	3808.9
12.5°	3635.7	3634.0	3637.5	3649.9	3656.9	3655.2	3672.8	3683.5	3687.0	3688.8	3687.0
15°	3559.7	3547.4	3556.2	3558.0	3563.3	3563.3	3584.5	3600.4	3607.5	3611.0	3607.5
17.5°	3416.6	3386.5	3414.8	3414.8	3434.2	3430.7	3464.3	3490.8	3504.9	3515.5	3515.5
20°	3275.2	3261.0	3271.6	3268.1	3282.2	3280.5	3301.7	3319.3	3331.7	3340.6	3351.2
22.5°	3218.6	3222.1	3206.2	3208.0	3208.0	3206.2	3216.8	3225.7	3229.2	3234.5	3231.0
25°	3181.5	3185.0	3179.7	3170.9	3167.3	3170.9	3176.2	3186.8	3188.6	3185.0	3172.6
27.5°	3144.4	3133.8	3142.6	3126.7	3123.2	3130.2	3137.3	3139.1	3140.8	3140.8	3130.2
30°	3087.8	3079.0	3087.8	3080.7	3073.7	3080.7	3086.0	3086.0	3089.6	3091.3	3079.0
32.5°	2158.1	2175.8	2462.1	2635.3	2879.2	3003.0	3025.9	3025.9	3029.5	3029.5	3018.9
35°	735.3	737.0	797.1	864.3	1007.5	1184.2	1415.8	1536.0	1942.5	2428.5	2898.7
37.5°	726.4	724.7	722.9	721.1	719.4	717.6	714.1	712.3	722.9	857.2	1163.0
40°	730.0	728.2	724.7	722.9	721.1	717.6	715.8	712.3	708.8	705.2	701.7
42.5°	730.0	728.2	726.4	724.7	722.9	721.1	717.6	714.1	710.5	705.2	699.9
45°	705.2	705.2	707.0	707.0	708.8	708.8	708.8	707.0	707.0	705.2	698.2
47.5°	659.3	659.3	664.6	664.6	668.1	671.6	671.6	675.2	680.5	684.0	685.8
50°	606.2	606.2	611.6	613.3	616.9	622.2	627.5	629.2	634.5	641.6	648.7
52.5°	553.2	553.2	558.5	558.5	562.1	567.4	572.7	574.4	581.5	588.6	597.4
55°	503.7	503.7	507.3	509.0	510.8	514.3	519.6	519.6	526.7	532.0	540.9
57.5°	459.5	463.1	463.1	463.1	464.9	468.4	471.9	471.9	477.2	482.5	489.6
60°	417.1	420.7	420.7	420.7	422.4	424.2	427.7	427.7	431.3	434.8	441.9
62.5°	378.2	381.8	381.8	383.5	383.5	385.3	388.8	387.1	390.6	392.4	397.7
65°	328.8	332.3	334.1	335.8	337.6	341.1	346.4	344.7	350.0	353.5	358.8
67.5°	281.0	284.6	284.6	286.3	288.1	291.6	295.2	295.2	300.5	304.0	311.1
70°	236.8	240.4	240.4	242.1	243.9	247.4	251.0	249.2	254.5	258.1	263.4
72.5°	196.2	199.7	199.7	201.5	201.5	205.0	208.6	212.1	212.1	215.6	219.2
75°	159.1	160.8	162.6	162.6	164.4	166.1	169.7	173.2	175.0	176.7	180.3
77.5°	125.5	127.3	129.0	129.0	130.8	132.6	134.3	141.4	144.9	146.7	146.7
80°	95.4	97.2	97.2	97.2	99.0	100.7	104.3	104.3	111.4	111.4	113.1
82.5°	67.2	68.9	68.9	68.9	70.7	74.2	76.0	77.8	81.3	83.1	83.1
85°	40.7	42.4	42.4	42.4	44.2	46.0	49.5	51.3	53.0	53.0	54.8
87.5°	15.9	17.7	19.4	19.4	21.2	23.0	24.7	26.5	28.3	28.3	30.0
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: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3973.3	3985.7	3973.3	3980.4	3989.2	3973.3	3936.2	3922.1	3916.8	3895.6	3881.4
5°	4194.3	4194.3	4189.0	4203.1	4201.3	4176.6	4137.7	4120.0	4102.3	4079.4	4061.7
7.5°	4037.0	4051.1	4059.9	4114.7	4150.1	4153.6	4178.4	4183.7	4190.7	4183.7	4173.0
10°	3810.7	3805.4	3830.2	3881.4	3911.5	3927.4	3975.1	3998.1	4017.5	4056.4	4097.0
12.5°	3683.5	3690.5	3701.1	3738.2	3766.5	3759.5	3778.9	3794.8	3817.8	3856.7	3915.0
15°	3598.6	3605.7	3616.3	3644.6	3662.2	3653.4	3664.0	3674.6	3690.5	3710.0	3745.3
17.5°	3506.7	3519.1	3531.4	3561.5	3577.4	3575.6	3584.5	3588.0	3593.3	3605.7	3630.4
20°	3363.5	3402.4	3427.2	3467.8	3490.8	3487.3	3503.2	3508.5	3515.5	3527.9	3538.5
22.5°	3232.7	3243.3	3255.7	3299.9	3338.8	3386.5	3397.1	3411.3	3428.9	3441.3	3451.9
25°	3158.5	3151.4	3156.7	3186.8	3208.0	3211.5	3227.4	3273.4	3321.1	3342.3	3367.1
27.5°	3114.3	3107.3	3105.5	3119.6	3123.2	3114.3	3110.8	3124.9	3160.3	3195.6	3269.9
30°	3066.6	3057.8	3050.7	3063.1	3068.4	3056.0	3033.0	3020.6	3041.9	3050.7	3080.7
32.5°	3010.0	3001.2	2997.7	3004.7	3008.3	2997.7	2972.9	2958.8	2955.2	2948.2	2955.2
35°	2946.4	2937.6	2932.3	2934.0	2941.1	2932.3	2911.1	2893.4	2884.5	2865.1	2851.0
37.5°	1518.3	2151.0	2792.6	2859.8	2866.9	2865.1	2843.9	2824.5	2815.6	2792.6	2785.6
40°	694.6	775.9	1164.8	1521.8	2195.2	2789.1	2769.7	2750.2	2734.3	2727.2	2700.7
42.5°	692.9	694.6	696.4	687.6	851.9	1451.1	2142.2	2674.2	2663.6	2645.9	2626.5
45°	692.9	684.0	691.1	680.5	684.0	682.3	850.2	1371.6	2440.9	2550.5	2541.7
47.5°	685.8	680.5	687.6	678.7	668.1	673.4	666.3	675.2	1053.4	1786.9	2448.0
50°	654.0	657.5	669.9	668.1	659.3	666.3	654.0	664.6	655.7	719.4	1385.7
52.5°	606.2	613.3	625.7	636.3	639.8	648.7	645.1	648.7	641.6	643.4	645.1
55°	549.7	558.5	569.1	585.0	592.1	606.2	616.9	622.2	631.0	629.2	615.1
57.5°	496.7	505.5	514.3	530.2	546.2	553.2	572.7	583.3	606.2	600.9	597.4
60°	447.2	454.2	463.1	466.6	486.1	498.4	516.1	526.7	556.8	563.8	574.4
62.5°	403.0	406.5	413.6	418.9	431.3	443.6	452.5	470.2	486.1	509.0	524.9
65°	362.3	365.9	371.2	374.7	376.5	394.2	399.5	418.9	424.2	448.9	463.1
67.5°	316.4	323.5	330.5	334.1	337.6	348.2	351.7	360.6	372.9	383.5	401.2
70°	268.7	274.0	281.0	286.3	293.4	300.5	311.1	316.4	325.2	332.3	346.4
72.5°	224.5	229.8	233.3	238.6	243.9	249.2	258.1	270.4	277.5	289.9	293.4
75°	182.1	187.4	190.9	194.4	199.7	203.3	206.8	219.2	226.2	236.8	247.4
77.5°	150.2	150.2	153.8	164.4	162.6	162.6	166.1	173.2	178.5	185.6	196.2
80°	116.7	118.4	120.2	129.0	130.8	132.6	130.8	136.1	141.4	143.2	150.2
82.5°	86.6	88.4	88.4	93.7	99.0	99.0	99.0	100.7	106.0	107.8	111.4
85°	58.3	60.1	61.9	63.6	67.2	68.9	70.7	70.7	74.2	76.0	77.8
87.5°	31.8	35.3	37.1	38.9	40.7	42.4	44.2	46.0	47.7	49.5	51.3
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: 4SNLED-LD5-84SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3876.1	3867.3	3862.0	3847.8	3844.3	3821.3	3824.9	3821.3	3821.3	3826.6	3844.3
5°	4042.3	3999.8	3989.2	3959.2	3934.4	3892.0	3865.5	3851.4	3830.2	3821.3	3833.7
7.5°	4155.4	4123.6	4097.0	4070.5	4035.2	3985.7	3948.6	3906.2	3870.8	3837.2	3828.4
10°	4135.9	4171.3	4171.3	4155.4	4121.8	4072.3	4028.1	3975.1	3913.2	3860.2	3828.4
12.5°	3971.6	4033.4	4082.9	4120.0	4153.6	4120.0	4075.8	4033.4	3964.5	3886.7	3828.4
15°	3791.3	3854.9	3916.8	3994.5	4075.8	4109.4	4107.7	4058.2	3996.3	3915.0	3833.7
17.5°	3664.0	3708.2	3741.8	3826.6	3925.6	4012.2	4070.5	4074.1	4014.0	3941.5	3835.5
20°	3568.6	3600.4	3628.7	3676.4	3763.0	3869.0	3976.9	4037.0	4026.3	3946.8	3840.8
22.5°	3482.0	3504.9	3527.9	3563.3	3632.2	3701.1	3826.6	3950.3	4003.4	3938.0	3835.5
25°	3395.4	3420.1	3437.8	3462.5	3517.3	3573.9	3662.2	3816.0	3934.4	3930.9	3824.9
27.5°	3292.8	3326.4	3347.6	3381.2	3418.3	3460.7	3520.8	3665.8	3835.5	3895.6	3796.6
30°	3169.1	3218.6	3250.4	3287.5	3319.3	3356.5	3404.2	3492.6	3702.9	3826.6	3766.5
32.5°	2990.6	3079.0	3149.7	3185.0	3220.4	3252.2	3294.6	3368.8	3540.3	3732.9	3732.9
35°	2863.3	2904.0	2967.6	3070.1	3114.3	3146.1	3185.0	3243.3	3352.9	3621.6	3678.2
37.5°	2764.4	2780.3	2812.1	2912.8	2995.9	3047.2	3086.0	3123.2	3231.0	3469.6	3607.5
40°	2690.1	2684.8	2681.3	2729.0	2847.4	2928.7	2972.9	3010.0	3093.1	3287.5	3513.8
42.5°	2603.5	2598.2	2580.5	2592.9	2651.2	2787.3	2854.5	2895.2	2964.1	3096.6	3411.3
45°	2513.4	2504.5	2497.5	2485.1	2506.3	2582.3	2720.2	2780.3	2819.1	2937.6	3282.2
47.5°	2421.5	2409.1	2400.3	2389.6	2377.3	2412.6	2543.4	2651.2	2718.4	2792.6	3126.7
50°	2290.7	2306.6	2296.0	2283.6	2273.0	2265.9	2320.7	2497.5	2580.5	2640.6	2937.6
52.5°	1079.9	2099.8	2188.2	2175.8	2161.6	2149.3	2161.6	2296.0	2446.2	2493.9	2709.6
55°	615.1	935.0	1946.0	2057.4	2045.0	2027.3	2016.7	2062.7	2287.1	2350.8	2501.0
57.5°	592.1	593.9	859.0	1854.1	1923.0	1907.1	1894.8	1905.4	2096.2	2204.1	2318.9
60°	572.7	572.7	572.7	820.1	1772.8	1778.1	1762.2	1744.5	1827.6	2039.7	2135.1
62.5°	530.2	540.9	546.2	546.2	809.5	1642.0	1626.1	1620.8	1624.3	1841.7	1951.3
65°	475.5	500.2	510.8	517.9	517.9	850.2	1486.5	1477.6	1465.3	1548.3	1765.7
67.5°	415.4	440.1	463.1	477.2	479.0	494.9	887.3	1330.9	1313.2	1315.0	1567.8
70°	353.5	374.7	399.5	420.7	440.1	448.9	463.1	1104.7	1163.0	1138.3	1343.3
72.5°	305.8	314.6	332.3	353.5	376.5	397.7	410.1	440.1	1009.2	982.7	1021.6
75°	254.5	261.6	274.0	288.1	305.8	330.5	351.7	372.9	535.6	823.7	818.3
77.5°	198.0	210.3	224.5	233.3	242.1	259.8	288.1	309.3	330.5	556.8	655.7
80°	152.0	160.8	167.9	176.7	187.4	199.7	210.3	235.1	259.8	279.3	502.0
82.5°	113.1	118.4	123.7	127.3	130.8	137.9	157.3	166.1	182.1	199.7	236.8
85°	79.5	83.1	86.6	88.4	90.1	91.9	99.0	100.7	116.7	120.2	143.2
87.5°	51.3	53.0	56.6	58.3	58.3	60.1	61.9	61.9	61.9	58.3	70.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3856.7	3856.7
2.5°	3858.4	3886.7
5°	3853.1	3890.2
7.5°	3839.0	3874.3
10°	3817.8	3860.2
12.5°	3794.8	3835.5
15°	3775.4	3805.4
17.5°	3754.2	3771.8
20°	3725.9	3740.0
22.5°	3697.6	3690.5
25°	3665.8	3649.9
27.5°	3625.1	3595.1
30°	3588.0	3535.0
32.5°	3552.7	3466.1
35°	3504.9	3395.4
37.5°	3455.4	3322.9
40°	3397.1	3239.8
42.5°	3335.3	3156.7
45°	3257.5	3077.2
47.5°	3188.6	2981.8
50°	3093.1	2879.2
52.5°	2976.5	2783.8
55°	2838.6	2667.1
57.5°	2690.1	2545.2
60°	2531.0	2405.6
62.5°	2338.4	2260.6
65°	2112.2	2094.5
67.5°	1817.0	1910.7
70°	1490.0	1700.3
72.5°	1246.1	1477.6
75°	1021.6	1228.4
77.5°	809.5	963.3
80°	505.5	705.2
82.5°	339.4	463.1
85°	205.0	220.9
87.5°	79.5	81.3
90°	0.0	0.0

(END OF REPORT)