

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-LD5-86SL-RW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

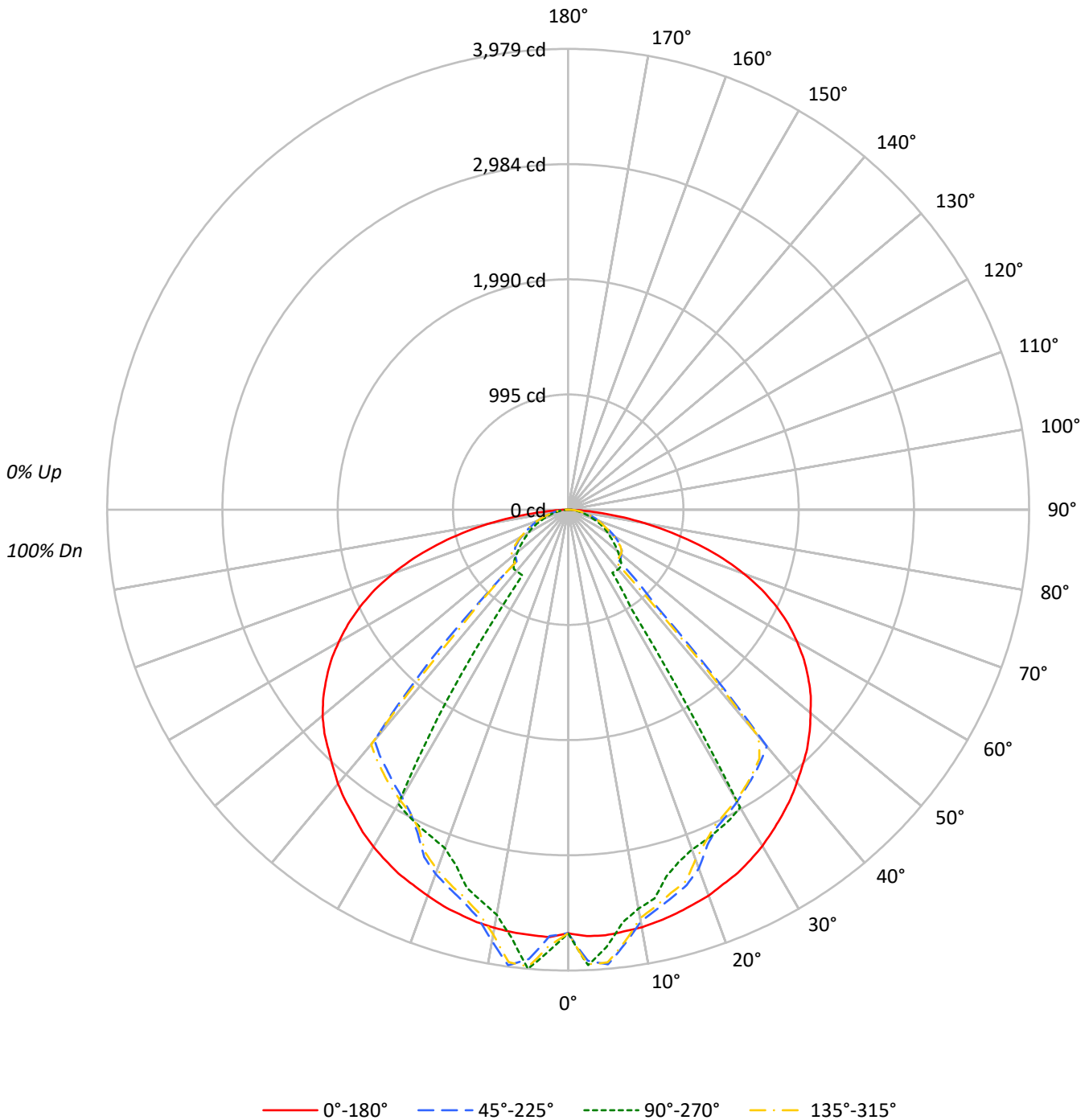
Lumens per Lamp: N/A
Luminaire Lumens: 7323.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	14776	14776	14776	14776
5°	14941	14887	14934	15624
10°	14976	13460	14997	13666
15°	15031	12453	15066	12848
20°	15162	11812	15162	11767
25°	15317	11586	15340	11477
30°	15499	11381	15538	11246
35°	15708	2592	15741	2704
40°	15994	2696	16089	2783
45°	16416	2681	16473	2778
50°	16847	2424	17075	2489
55°	17426	2152	17565	2183
60°	17947	1912	17986	1937
65°	18372	1669	18326	1643
70°	18263	1345	18205	1296
75°	17182	1035	17306	992
80°	14293	735	14866	673
85°	8241	441	8701	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	4.9
10°-20°	989.3	13.5
20°-30°	1465.3	20.0
30°-40°	1476.4	20.2
40°-50°	1153.3	15.7
50°-60°	890.8	12.2
60°-70°	598.1	8.2
70°-80°	305.1	4.2
80°-90°	84.9	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°	2814.4	38.4
0°-40°	4290.8	58.6
0°-60°	6334.9	86.5
0°-90°	7323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7323.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3657	3657	3657	3657	3657	
5°	3689	3791	3687	3979	3689	351
15°	3608	3276	3617	3380	3608	1021
25°	3461	3054	3466	3025	3461	1596
35°	3220	664	3226	692	3220	2018
45°	2918	645	2928	669	2918	2250
55°	2529	469	2549	476	2529	2259
65°	1986	315	1981	310	1986	1953
75°	1165	159	1173	152	1165	1218
85°	210	50	221	38	210	288
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3685.4	3698.8	3708.9	3715.6	3718.9	3718.9	3720.6	3722.3	3744.1	3754.1	3760.8
5°	3688.8	3702.2	3722.3	3749.1	3772.6	3792.7	3809.4	3832.9	3856.4	3881.5	3889.9
7.5°	3673.7	3690.4	3730.7	3779.3	3824.5	3856.4	3878.1	3893.2	3905.0	3906.6	3915.0
10°	3660.3	3690.4	3745.7	3809.4	3866.4	3905.0	3905.0	3896.6	3908.3	3863.1	3817.8
12.5°	3636.8	3670.3	3745.7	3829.5	3883.2	3898.3	3891.6	3858.0	3789.3	3734.0	3708.9
15°	3608.3	3653.6	3747.4	3841.3	3886.5	3891.6	3827.9	3742.4	3690.4	3656.9	3615.0
17.5°	3576.5	3636.8	3749.1	3842.9	3859.7	3836.2	3715.6	3661.9	3608.3	3529.5	3472.6
20°	3546.3	3605.0	3735.7	3819.5	3829.5	3724.0	3630.1	3573.1	3482.6	3413.9	3388.8
22.5°	3499.4	3568.1	3724.0	3787.6	3749.1	3626.8	3536.2	3445.7	3363.6	3343.5	3313.3
25°	3460.8	3532.9	3697.1	3749.1	3646.9	3537.9	3432.3	3326.8	3288.2	3259.7	3232.9
27.5°	3408.9	3497.7	3661.9	3678.7	3537.9	3442.4	3288.2	3241.3	3206.1	3174.2	3162.5
30°	3351.9	3460.8	3613.3	3581.5	3447.4	3306.6	3192.7	3149.1	3124.0	3090.4	3077.0
32.5°	3286.5	3405.5	3559.7	3469.2	3350.2	3174.2	3100.5	3067.0	3033.5	3008.3	2924.5
35°	3219.5	3356.9	3496.0	3362.0	3232.9	3073.7	3008.3	2978.2	2946.3	2854.1	2767.0
37.5°	3150.8	3303.3	3418.9	3246.3	3077.0	2969.8	2914.5	2881.0	2808.9	2691.6	2648.0
40°	3072.0	3237.9	3320.1	3127.3	2941.3	2864.2	2812.2	2778.7	2616.2	2564.2	2550.8
42.5°	2993.2	3174.2	3199.4	3011.7	2829.0	2751.9	2708.3	2597.7	2487.1	2460.3	2465.3
45°	2917.8	3105.5	3067.0	2847.4	2711.7	2648.0	2574.3	2421.7	2363.1	2376.5	2379.8
47.5°	2827.3	3023.4	2927.9	2683.2	2591.0	2527.3	2363.1	2270.9	2262.5	2281.0	2291.0
50°	2730.1	2931.2	2780.4	2534.0	2460.3	2384.9	2198.8	2151.9	2162.0	2180.4	2192.1
52.5°	2639.6	2827.3	2627.9	2394.9	2331.2	2158.6	2032.9	2041.3	2058.1	2079.9	2086.6
55°	2529.0	2701.6	2465.3	2254.1	2193.8	1967.6	1910.6	1930.7	1947.5	1965.9	1979.3
57.5°	2413.4	2557.5	2272.6	2096.6	1999.4	1798.3	1803.3	1816.7	1828.5	1850.2	764.2
60°	2281.0	2393.3	2061.4	1950.8	1758.1	1664.2	1669.2	1692.7	1704.4	951.9	526.2
62.5°	2143.5	2202.2	1870.4	1784.9	1536.8	1530.1	1553.6	1563.7	1064.2	502.8	492.7
65°	1986.0	1974.3	1682.7	1546.9	1386.0	1392.7	1417.9	1367.6	470.9	470.9	467.6
67.5°	1811.7	1741.3	1500.0	1280.4	1240.2	1255.3	1282.1	447.5	435.7	439.1	427.4
70°	1612.3	1513.4	1310.6	1084.3	1097.7	1112.8	432.4	405.6	400.6	392.2	368.7
72.5°	1401.1	1265.3	1072.6	941.9	950.3	596.6	378.8	365.4	348.6	331.8	306.7
75°	1164.8	988.8	787.7	787.7	799.4	340.2	330.2	308.4	289.9	268.2	253.1
77.5°	913.4	760.9	611.7	635.2	310.1	284.9	266.5	243.0	227.9	214.5	206.1
80°	668.7	531.3	460.9	412.3	241.3	216.2	197.8	184.4	177.7	169.3	159.2
82.5°	439.1	320.1	320.1	194.4	169.3	149.2	144.1	134.1	127.4	122.3	117.3
85°	209.5	186.0	140.8	119.0	105.6	95.5	92.2	87.1	87.1	85.5	83.8
87.5°	77.1	83.8	62.0	60.3	57.0	55.3	57.0	57.0	58.7	57.0	55.3
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°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3777.6	3791.0	3801.0	3817.8	3839.6	3858.0	3874.8	3898.3	3935.1	3945.2	3953.6
5°	3889.9	3894.9	3906.6	3920.0	3923.4	3931.8	3930.1	3940.2	3945.2	3956.9	3931.8
7.5°	3896.6	3869.8	3837.9	3809.4	3789.3	3770.9	3759.2	3777.6	3787.6	3796.0	3770.9
10°	3755.8	3724.0	3705.5	3688.8	3668.6	3640.2	3601.6	3610.0	3606.6	3606.6	3598.3
12.5°	3667.0	3621.7	3574.8	3532.9	3514.5	3512.8	3514.5	3532.9	3532.9	3531.2	3521.2
15°	3527.9	3484.3	3460.8	3450.8	3450.8	3445.7	3445.7	3465.9	3460.8	3460.8	3455.8
17.5°	3435.7	3405.5	3388.8	3377.0	3372.0	3380.4	3390.4	3398.8	3400.5	3393.8	3367.0
20°	3360.3	3331.8	3311.7	3315.0	3313.3	3318.4	3323.4	3294.9	3259.7	3212.8	3191.0
22.5°	3281.5	3259.7	3244.6	3244.6	3224.5	3192.7	3145.8	3135.7	3130.7	3108.9	3090.4
25°	3206.1	3180.9	3159.2	3092.1	3050.2	3055.3	3046.9	3030.1	3028.4	3026.8	3033.5
27.5°	3130.7	3065.3	2981.5	2971.5	2954.7	2953.0	2963.1	2971.5	2971.5	2978.2	2986.5
30°	2974.8	2899.4	2884.3	2865.9	2872.6	2896.0	2901.1	2912.8	2916.1	2927.9	2934.6
32.5°	2832.4	2798.8	2785.4	2793.8	2815.6	2835.7	2847.4	2852.5	2860.8	2870.9	2879.3
35°	2716.7	2706.7	2718.4	2736.8	2758.6	2775.4	2785.4	2795.5	2803.9	2812.2	2818.9
37.5°	2631.2	2637.9	2654.7	2678.2	2700.0	2713.4	2721.7	2733.5	2745.2	2755.3	2715.0
40°	2550.8	2567.6	2586.0	2611.1	2629.6	2643.0	2651.3	2666.4	2565.9	1161.4	636.9
42.5°	2480.4	2498.8	2512.2	2532.4	2552.5	2562.5	2488.8	1111.2	628.5	625.1	633.5
45°	2394.9	2410.0	2431.8	2446.9	2465.3	1619.0	618.4	625.1	615.1	621.8	625.1
47.5°	2307.8	2331.2	2343.0	2235.7	665.4	615.1	608.4	615.1	608.4	616.7	611.7
50°	2208.9	2237.4	1592.2	601.7	596.6	593.3	600.0	596.6	601.7	608.4	595.0
52.5°	2108.3	1305.6	583.2	579.9	583.2	579.9	591.6	583.2	584.9	578.2	561.4
55°	714.0	564.8	559.8	558.1	568.1	568.1	568.1	554.7	546.4	529.6	517.9
57.5°	546.4	546.4	544.7	546.4	543.0	539.7	524.6	512.8	501.1	477.6	470.9
60°	517.9	517.9	517.9	517.9	502.8	496.1	472.6	462.6	442.5	430.7	424.0
62.5°	494.4	491.1	476.0	470.9	454.2	435.7	422.3	412.3	392.2	385.5	380.4
65°	460.9	449.2	430.7	410.6	402.2	382.1	375.4	360.3	350.3	345.2	341.9
67.5°	405.6	388.8	373.7	360.3	345.2	338.5	330.2	318.4	311.7	308.4	305.0
70°	346.9	335.2	320.1	311.7	301.7	296.6	284.9	281.6	276.5	271.5	266.5
72.5°	289.9	283.2	276.5	264.8	261.4	258.1	246.4	239.7	233.0	226.3	222.9
75°	243.0	238.0	234.6	224.6	219.5	209.5	201.1	196.1	191.1	186.0	182.7
77.5°	199.4	196.1	186.0	179.3	176.0	167.6	164.2	165.9	162.6	155.9	152.5
80°	155.9	152.5	144.1	144.1	140.8	137.4	134.1	130.7	127.4	122.3	119.0
82.5°	119.0	115.6	112.3	108.9	105.6	103.9	102.2	98.9	95.5	92.2	90.5
85°	83.8	82.1	80.4	78.8	77.1	75.4	73.7	70.4	67.0	65.4	63.7
87.5°	57.0	55.3	53.6	52.0	50.3	48.6	46.9	45.3	41.9	40.2	38.5
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3953.6	3961.9	3953.6	3935.1	3923.4	3918.4	3928.4	3928.4	3935.1	3943.5	3945.2
5°	3891.6	3871.4	3848.0	3824.5	3812.8	3806.1	3787.6	3791.0	3796.0	3799.4	3802.7
7.5°	3737.4	3710.5	3678.7	3648.5	3636.8	3626.8	3605.0	3605.0	3605.0	3606.6	3616.7
10°	3579.8	3568.1	3554.7	3534.6	3519.5	3514.5	3496.0	3501.1	3497.7	3502.7	3514.5
12.5°	3506.1	3492.7	3480.9	3460.8	3444.1	3437.4	3429.0	3434.0	3432.3	3440.7	3450.8
15°	3439.0	3432.3	3418.9	3403.8	3388.8	3375.4	3345.2	3335.1	3328.4	3320.1	3331.8
17.5°	3328.4	3281.5	3249.7	3226.2	3209.4	3197.7	3189.3	3189.3	3194.4	3199.4	3209.4
20°	3177.6	3164.2	3149.1	3124.0	3107.2	3100.5	3095.5	3095.5	3103.9	3110.6	3129.0
22.5°	3073.7	3072.0	3067.0	3055.3	3046.9	3046.9	3048.5	3051.9	3063.6	3073.7	3092.1
25°	3025.1	3031.8	3028.4	3021.7	3016.7	3018.4	3015.0	3018.4	3030.1	3040.2	3055.3
27.5°	2986.5	2996.6	2993.2	2983.2	2974.8	2978.2	2983.2	2979.8	2989.9	3001.6	3013.4
30°	2934.6	2936.3	2943.0	2931.2	2927.9	2932.9	2934.6	2937.9	2948.0	2956.4	2966.4
32.5°	2875.9	2889.3	2887.7	2875.9	2875.9	2881.0	2882.6	2770.3	2560.8	2205.5	2108.3
35°	2818.9	2834.0	2808.9	2368.1	1639.1	874.8	675.4	651.9	657.0	660.3	663.7
37.5°	2084.9	988.8	630.2	635.2	640.2	645.2	650.3	655.3	660.3	665.4	667.0
40°	626.8	625.1	630.2	636.9	641.9	645.2	651.9	657.0	662.0	667.0	668.7
42.5°	620.1	623.5	628.5	635.2	641.9	648.6	653.6	660.3	663.7	667.0	668.7
45°	616.7	623.5	630.2	635.2	640.2	643.6	646.9	648.6	646.9	646.9	650.3
47.5°	611.7	618.4	620.1	618.4	620.1	618.4	618.4	618.4	613.4	611.7	611.7
50°	593.3	593.3	589.9	583.2	581.6	579.9	576.5	574.9	568.1	566.5	566.5
52.5°	554.7	553.1	548.0	539.7	536.3	533.0	531.3	529.6	522.9	519.5	521.2
55°	509.5	506.1	501.1	491.1	489.4	486.0	484.3	482.7	476.0	479.3	474.3
57.5°	467.6	460.9	454.2	452.5	445.8	444.1	442.5	440.8	435.7	437.4	434.1
60°	417.3	415.6	412.3	405.6	405.6	403.9	403.9	400.6	397.2	395.5	395.5
62.5°	380.4	375.4	372.1	372.1	367.0	367.0	367.0	363.7	360.3	362.0	360.3
65°	340.2	338.5	336.9	333.5	333.5	331.8	331.8	328.5	323.5	325.1	321.8
67.5°	306.7	303.3	300.0	298.3	291.6	288.3	286.6	284.9	278.2	279.9	276.5
70°	264.8	259.8	256.4	253.1	248.0	244.7	244.7	241.3	236.3	238.0	234.6
72.5°	221.2	217.9	214.5	212.8	207.8	206.1	204.5	202.8	197.8	199.4	197.8
75°	184.4	184.4	182.7	181.0	176.0	170.9	167.6	165.9	162.6	164.2	160.9
77.5°	152.5	149.2	145.8	145.8	140.8	137.4	134.1	134.1	134.1	132.4	130.7
80°	119.0	115.6	115.6	114.0	110.6	107.3	105.6	105.6	103.9	103.9	102.2
82.5°	90.5	87.1	85.5	85.5	82.1	80.4	78.8	77.1	77.1	77.1	75.4
85°	63.7	60.3	58.7	58.7	55.3	53.6	53.6	52.0	52.0	50.3	50.3
87.5°	38.5	36.9	35.2	35.2	31.8	30.2	30.2	30.2	28.5	28.5	26.8
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-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3945.2	3945.2	3933.4	3936.8	3931.8	3938.5	3930.1	3930.1	3940.2	3940.2	3946.9
5°	3804.4	3796.0	3794.3	3791.0	3774.2	3780.9	3772.6	3764.2	3775.9	3775.9	3791.0
7.5°	3611.7	3596.6	3603.3	3593.2	3583.2	3568.1	3573.1	3566.4	3574.8	3586.5	3601.6
10°	3512.8	3499.4	3507.8	3497.7	3502.7	3480.9	3482.6	3484.3	3492.7	3496.0	3509.4
12.5°	3449.1	3445.7	3442.4	3439.0	3442.4	3430.7	3424.0	3425.6	3429.0	3430.7	3440.7
15°	3315.0	3293.2	3299.9	3276.5	3278.2	3279.8	3266.4	3279.8	3278.2	3299.9	3320.1
17.5°	3206.1	3206.1	3194.4	3184.3	3177.6	3175.9	3165.9	3172.6	3165.9	3179.3	3184.3
20°	3130.7	3129.0	3127.3	3122.3	3105.5	3107.2	3112.2	3097.2	3095.5	3093.8	3103.9
22.5°	3095.5	3097.2	3090.4	3090.4	3075.4	3078.7	3080.4	3063.6	3065.3	3060.3	3065.3
25°	3058.6	3062.0	3053.6	3053.6	3050.2	3048.5	3040.2	3043.5	3033.5	3025.1	3033.5
27.5°	3015.0	3021.7	3015.0	3018.4	3011.7	3008.3	3003.3	2999.9	2989.9	2988.2	2993.2
30°	2974.8	2978.2	2976.5	2968.1	2966.4	2956.4	2961.4	2951.3	2941.3	2943.0	2946.3
32.5°	1525.1	1456.4	1122.9	1013.9	1003.9	1040.8	1233.5	1501.6	1945.8	2376.5	2686.5
35°	665.4	665.4	665.4	663.7	663.7	662.0	660.3	658.6	657.0	655.3	653.6
37.5°	668.7	668.7	668.7	668.7	667.0	665.4	665.4	662.0	660.3	658.6	657.0
40°	670.4	672.1	672.1	672.1	670.4	670.4	668.7	665.4	663.7	660.3	657.0
42.5°	668.7	670.4	670.4	668.7	668.7	667.0	667.0	665.4	663.7	662.0	660.3
45°	646.9	648.6	645.2	645.2	643.6	643.6	643.6	643.6	643.6	645.2	645.2
47.5°	608.4	608.4	606.7	605.0	605.0	603.3	605.0	603.3	606.7	608.4	611.7
50°	563.1	563.1	559.8	558.1	558.1	558.1	558.1	559.8	561.4	564.8	568.1
52.5°	516.2	516.2	514.5	512.8	511.2	511.2	516.2	514.5	516.2	517.9	522.9
55°	470.9	472.6	469.3	469.3	467.6	467.6	467.6	469.3	470.9	472.6	477.6
57.5°	432.4	432.4	429.0	429.0	429.0	427.4	432.4	429.0	430.7	432.4	435.7
60°	393.8	392.2	392.2	390.5	390.5	390.5	393.8	392.2	392.2	393.8	397.2
62.5°	358.7	358.7	357.0	357.0	355.3	355.3	358.7	357.0	357.0	358.7	360.3
65°	318.4	318.4	316.8	315.1	320.1	315.1	320.1	316.8	320.1	321.8	325.1
67.5°	273.2	273.2	273.2	271.5	271.5	274.9	276.5	273.2	274.9	278.2	279.9
70°	233.0	233.0	231.3	231.3	231.3	234.6	236.3	233.0	234.6	236.3	239.7
72.5°	197.8	194.4	194.4	192.7	196.1	196.1	197.8	196.1	197.8	197.8	201.1
75°	162.6	159.2	159.2	159.2	162.6	160.9	162.6	160.9	162.6	162.6	164.2
77.5°	130.7	129.0	127.4	127.4	130.7	130.7	130.7	129.0	130.7	132.4	134.1
80°	102.2	100.6	98.9	98.9	102.2	102.2	102.2	103.9	102.2	103.9	105.6
82.5°	75.4	73.7	72.1	75.4	75.4	75.4	75.4	77.1	75.4	77.1	78.8
85°	50.3	48.6	46.9	50.3	50.3	50.3	50.3	52.0	50.3	52.0	53.6
87.5°	26.8	25.1	25.1	26.8	26.8	26.8	28.5	28.5	28.5	30.2	30.2
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: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3956.9	3961.9	3960.3	3950.2	3940.2	3928.4	3920.0	3921.7	3938.5	3943.5	3928.4
5°	3791.0	3822.8	3822.8	3844.6	3832.9	3822.8	3829.5	3866.4	3884.8	3913.3	3923.4
7.5°	3620.0	3635.1	3633.5	3655.2	3651.9	3651.9	3656.9	3705.5	3729.0	3752.4	3759.2
10°	3524.5	3539.6	3537.9	3539.6	3534.6	3522.8	3522.8	3544.6	3564.7	3576.5	3579.8
12.5°	3455.8	3464.2	3462.5	3462.5	3459.2	3449.1	3447.4	3465.9	3487.6	3502.7	3504.4
15°	3353.6	3377.0	3382.1	3403.8	3398.8	3385.4	3388.8	3403.8	3417.3	3430.7	3425.6
17.5°	3201.1	3212.8	3214.5	3222.8	3219.5	3219.5	3239.6	3294.9	3331.8	3363.6	3367.0
20°	3113.9	3122.3	3118.9	3137.4	3129.0	3127.3	3132.3	3155.8	3172.6	3187.7	3214.5
22.5°	3072.0	3078.7	3073.7	3075.4	3060.3	3046.9	3043.5	3062.0	3080.4	3100.5	3100.5
25°	3036.8	3041.8	3040.2	3036.8	3025.1	3006.7	3003.3	3006.7	3013.4	3015.0	3003.3
27.5°	2994.9	2998.3	2998.3	2999.9	2984.9	2968.1	2964.8	2961.4	2968.1	2966.4	2948.0
30°	2951.3	2946.3	2948.0	2949.7	2936.3	2921.2	2914.5	2912.8	2919.5	2917.8	2899.4
32.5°	2847.4	2886.0	2889.3	2892.7	2881.0	2867.5	2860.8	2855.8	2859.2	2857.5	2840.7
35°	651.9	663.7	812.8	1840.2	2498.8	2767.0	2795.5	2788.8	2790.5	2790.5	2777.0
37.5°	653.6	651.9	650.3	645.2	640.2	636.9	1101.1	2348.0	2720.1	2721.7	2710.0
40°	653.6	651.9	650.3	646.9	640.2	635.2	626.8	620.1	635.2	1397.7	2557.5
42.5°	657.0	653.6	650.3	646.9	640.2	633.5	626.8	618.4	623.5	620.1	611.7
45°	646.9	645.2	645.2	643.6	640.2	633.5	625.1	615.1	610.0	615.1	606.7
47.5°	615.1	616.7	621.8	623.5	623.5	625.1	620.1	613.4	605.0	610.0	600.0
50°	571.5	574.9	576.5	584.9	588.3	595.0	596.6	596.6	595.0	601.7	595.0
52.5°	524.6	527.9	536.3	539.7	543.0	553.1	556.4	561.4	564.8	574.9	581.6
55°	479.3	481.0	484.3	491.1	496.1	504.5	509.5	514.5	522.9	527.9	548.0
57.5°	437.4	439.1	445.8	447.5	450.8	457.5	462.6	469.3	476.0	479.3	502.8
60°	397.2	398.9	403.9	405.6	407.3	414.0	419.0	424.0	429.0	432.4	449.2
62.5°	362.0	362.0	367.0	367.0	368.7	373.7	377.1	380.4	385.5	387.1	395.5
65°	326.8	328.5	331.8	331.8	333.5	336.9	338.5	340.2	345.2	345.2	351.9
67.5°	283.2	284.9	289.9	293.3	295.0	301.7	303.3	305.0	308.4	310.1	313.4
70°	241.3	243.0	248.0	249.7	251.4	256.4	259.8	264.8	269.8	274.9	278.2
72.5°	202.8	204.5	209.5	209.5	214.5	216.2	219.5	221.2	226.3	229.6	234.6
75°	165.9	167.6	172.6	172.6	177.7	179.3	181.0	182.7	186.0	189.4	192.7
77.5°	135.8	135.8	142.5	145.8	149.2	149.2	150.8	150.8	150.8	152.5	155.9
80°	107.3	107.3	112.3	115.6	119.0	119.0	120.7	122.3	124.0	124.0	125.7
82.5°	80.4	80.4	85.5	87.1	90.5	90.5	90.5	92.2	93.9	92.2	95.5
85°	55.3	55.3	58.7	60.3	63.7	63.7	63.7	65.4	67.0	65.4	67.0
87.5°	31.8	33.5	35.2	36.9	38.5	40.2	40.2	40.2	41.9	41.9	43.6
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: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3911.7	3891.6	3889.9	3866.4	3859.7	3861.4	3842.9	3836.2	3806.1	3799.4	3767.5
5°	3926.7	3936.8	3931.8	3930.1	3935.1	3931.8	3918.4	3911.7	3906.6	3893.2	3866.4
7.5°	3760.8	3767.5	3772.6	3794.3	3812.8	3844.6	3878.1	3899.9	3916.7	3920.0	3898.3
10°	3591.6	3623.4	3645.2	3678.7	3705.5	3724.0	3744.1	3762.5	3811.1	3859.7	3888.2
12.5°	3504.4	3512.8	3511.1	3529.5	3548.0	3596.6	3643.5	3670.3	3707.2	3729.0	3780.9
15°	3430.7	3432.3	3437.4	3450.8	3460.8	3477.6	3499.4	3539.6	3613.3	3646.9	3675.4
17.5°	3363.6	3363.6	3367.0	3378.7	3392.1	3407.2	3420.6	3437.4	3474.2	3529.5	3599.9
20°	3256.4	3303.3	3308.3	3306.6	3313.3	3341.8	3345.2	3375.4	3393.8	3415.6	3484.3
22.5°	3097.2	3125.6	3165.9	3227.9	3251.3	3264.7	3274.8	3288.2	3316.7	3341.8	3370.3
25°	3010.0	3028.4	3040.2	3058.6	3107.2	3186.0	3201.1	3216.1	3234.6	3253.0	3288.2
27.5°	2932.9	2931.2	2939.6	2956.4	2969.8	3011.7	3085.4	3144.1	3147.4	3174.2	3204.4
30°	2877.6	2867.5	2855.8	2852.5	2870.9	2892.7	2914.5	3006.7	3070.3	3083.7	3115.6
32.5°	2825.6	2808.9	2792.1	2778.7	2767.0	2785.4	2798.8	2839.1	2921.2	2998.3	3015.0
35°	2762.0	2745.2	2725.1	2710.0	2691.6	2689.9	2688.2	2726.8	2753.6	2845.8	2926.2
37.5°	2696.6	2678.2	2661.4	2644.6	2626.2	2612.8	2604.4	2614.5	2639.6	2679.8	2813.9
40°	2627.9	2606.1	2589.3	2575.9	2550.8	2540.7	2524.0	2517.3	2518.9	2554.1	2624.5
42.5°	1570.4	2503.9	2512.2	2497.2	2475.4	2462.0	2443.5	2435.2	2418.4	2435.2	2475.4
45°	605.0	611.7	1831.8	2420.1	2393.3	2376.5	2359.7	2351.4	2332.9	2319.5	2356.4
47.5°	593.3	600.0	586.6	831.3	2284.3	2289.3	2269.2	2260.9	2242.4	2232.4	2222.3
50°	584.9	589.9	579.9	583.2	571.5	2093.3	2177.1	2167.0	2146.9	2135.2	2115.0
52.5°	576.5	576.5	569.8	561.4	558.1	559.8	1761.4	2071.5	2048.0	2036.3	2009.5
55°	549.7	553.1	559.8	546.4	543.0	541.3	536.3	1677.6	1939.1	1925.7	1902.2
57.5°	509.5	516.2	534.6	531.3	531.3	517.9	514.5	514.5	1557.0	1813.4	1789.9
60°	462.6	469.3	489.4	496.1	501.1	497.8	494.4	492.7	486.0	1640.8	1670.9
62.5°	414.0	420.7	427.4	449.2	455.9	464.2	474.3	469.3	462.6	462.6	1545.2
65°	362.0	372.1	375.4	395.5	403.9	419.0	427.4	439.1	435.7	434.1	442.5
67.5°	316.8	328.5	330.2	338.5	353.6	360.3	370.4	392.2	402.2	405.6	408.9
70°	278.2	284.9	289.9	293.3	303.3	305.0	323.5	338.5	353.6	370.4	375.4
72.5°	239.7	244.7	254.7	251.4	254.7	261.4	271.5	281.6	296.6	320.1	335.2
75°	196.1	199.4	206.1	209.5	216.2	221.2	227.9	236.3	249.7	261.4	281.6
77.5°	157.5	159.2	164.2	165.9	172.6	177.7	189.4	194.4	202.8	211.2	222.9
80°	127.4	127.4	129.0	129.0	134.1	139.1	147.5	152.5	162.6	169.3	169.3
82.5°	97.2	97.2	102.2	102.2	105.6	105.6	110.6	110.6	115.6	119.0	122.3
85°	68.7	70.4	73.7	72.1	75.4	73.7	77.1	80.4	82.1	80.4	78.8
87.5°	45.3	45.3	48.6	46.9	48.6	48.6	52.0	52.0	53.6	53.6	52.0
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-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3755.8	3730.7	3715.6	3697.1	3692.1	3687.1	3693.8	3693.8	3683.7	3675.4	3660.3
5°	3842.9	3816.1	3787.6	3757.5	3729.0	3698.8	3687.1	3685.4	3667.0	3656.9	3651.9
7.5°	3888.2	3874.8	3842.9	3801.0	3757.5	3703.8	3680.4	3667.0	3648.5	3645.2	3645.2
10°	3893.2	3878.1	3861.4	3831.2	3780.9	3710.5	3665.3	3638.5	3621.7	3633.5	3655.2
12.5°	3844.6	3873.1	3858.0	3837.9	3797.7	3712.2	3646.9	3606.6	3601.6	3631.8	3688.8
15°	3720.6	3804.4	3846.3	3826.2	3794.3	3708.9	3616.7	3569.8	3569.8	3631.8	3705.5
17.5°	3626.8	3692.1	3794.3	3811.1	3774.2	3702.2	3588.2	3532.9	3548.0	3638.5	3717.3
20°	3549.7	3589.9	3688.8	3782.6	3747.4	3687.1	3546.3	3489.3	3519.5	3628.4	3734.0
22.5°	3429.0	3509.4	3569.8	3708.9	3720.6	3658.6	3504.4	3435.7	3496.0	3628.4	3725.6
25°	3311.7	3408.9	3472.6	3608.3	3680.4	3623.4	3465.9	3378.7	3470.9	3623.4	3718.9
27.5°	3229.6	3274.8	3390.4	3487.6	3620.0	3576.5	3413.9	3316.7	3439.0	3596.6	3680.4
30°	3142.4	3172.6	3286.5	3378.7	3539.6	3522.8	3360.3	3248.0	3398.8	3571.4	3579.8
32.5°	3046.9	3080.4	3139.0	3273.1	3427.3	3472.6	3299.9	3179.3	3355.2	3532.9	3462.5
35°	2949.7	2974.8	3021.7	3165.9	3296.6	3397.1	3226.2	3100.5	3325.1	3474.2	3350.2
37.5°	2852.5	2879.3	2919.5	3040.2	3159.2	3326.8	3162.5	3021.7	3269.8	3370.3	3232.9
40°	2760.3	2775.4	2817.3	2892.7	3045.2	3254.7	3090.4	2939.6	3212.8	3237.9	3073.7
42.5°	2591.0	2666.4	2705.0	2765.3	2916.1	3155.8	3006.7	2852.5	3149.1	3105.5	2914.5
45°	2408.3	2572.6	2589.3	2649.7	2802.2	3050.2	2927.9	2767.0	3088.8	2991.6	2763.6
47.5°	2259.2	2378.2	2475.4	2525.7	2666.4	2926.2	2854.1	2694.9	2998.3	2847.4	2616.2
50°	2126.8	2190.5	2366.4	2403.3	2503.9	2777.0	2767.0	2611.1	2872.6	2666.4	2472.0
52.5°	1997.7	2043.0	2202.2	2281.0	2363.1	2616.2	2663.1	2529.0	2735.1	2485.4	2326.2
55°	1885.4	1900.5	1987.7	2153.6	2227.3	2453.6	2549.1	2433.5	2560.8	2312.8	2185.4
57.5°	1769.8	1756.4	1820.1	2032.9	2086.6	2287.7	2428.4	2336.3	2420.1	2136.8	2039.6
60°	1649.1	1630.7	1657.5	1798.3	1937.4	2123.4	2286.0	2229.0	2249.1	1962.5	1877.1
62.5°	1523.4	1505.0	1496.6	1585.4	1791.6	1954.2	2141.9	2110.0	2039.6	1803.3	1675.9
65°	1392.7	1374.3	1360.9	1396.1	1630.7	1734.6	1981.0	1972.6	1810.0	1635.7	1411.1
67.5°	424.0	1250.3	1221.8	1220.1	1374.3	1535.2	1806.7	1793.3	1578.7	1456.4	1215.1
70°	382.1	1013.9	1077.6	1062.6	1129.6	1332.4	1607.2	1597.2	1354.2	1168.1	1074.3
72.5°	350.3	358.7	951.9	935.2	950.3	1132.9	1399.4	1372.6	1148.0	921.8	928.5
75°	300.0	315.1	328.5	789.4	769.3	938.5	1173.2	1131.3	946.9	760.9	776.0
77.5°	244.7	263.1	273.2	574.9	621.8	668.7	936.9	881.5	651.9	608.4	289.9
80°	182.7	197.8	214.5	229.6	472.6	467.6	695.5	640.2	454.2	378.8	226.3
82.5°	134.1	139.1	149.2	165.9	187.7	313.4	447.5	393.8	315.1	172.6	155.9
85°	83.8	90.5	95.5	100.6	114.0	187.7	221.2	176.0	132.4	105.6	98.9
87.5°	53.6	53.6	52.0	53.6	55.3	67.0	75.4	72.1	57.0	53.6	53.6
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: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3643.5	3620.0	3620.0	3613.3	3618.4	3618.4	3616.7	3618.4	3630.1	3636.8	3648.5
5°	3641.8	3635.1	3650.2	3668.6	3690.4	3717.3	3724.0	3747.4	3769.2	3797.7	3827.9
7.5°	3663.6	3687.1	3715.6	3745.7	3789.3	3821.2	3849.7	3878.1	3898.3	3925.1	3941.8
10°	3695.5	3742.4	3791.0	3829.5	3876.5	3903.3	3921.7	3925.1	3896.6	3851.3	3814.5
12.5°	3740.7	3796.0	3841.3	3878.1	3899.9	3889.9	3836.2	3780.9	3749.1	3702.2	3636.8
15°	3779.3	3829.5	3876.5	3861.4	3802.7	3747.4	3705.5	3640.2	3576.5	3532.9	3504.4
17.5°	3796.0	3844.6	3827.9	3749.1	3693.8	3630.1	3544.6	3494.4	3452.5	3418.9	3402.2
20°	3806.1	3797.7	3707.2	3650.2	3543.0	3484.3	3429.0	3382.1	3350.2	3333.5	3330.1
22.5°	3779.3	3677.0	3599.9	3497.7	3418.9	3370.3	3326.8	3288.2	3266.4	3253.0	3244.6
25°	3690.4	3571.4	3457.5	3377.0	3310.0	3268.1	3234.6	3202.7	3175.9	3169.2	3152.5
27.5°	3566.4	3469.2	3318.4	3256.4	3197.7	3177.6	3140.7	3108.9	3085.4	3065.3	3011.7
30°	3464.2	3310.0	3201.1	3144.1	3108.9	3085.4	3043.5	3010.0	2969.8	2896.0	2865.9
32.5°	3338.5	3186.0	3082.1	3050.2	3006.7	2986.5	2939.6	2865.9	2803.9	2773.7	2772.0
35°	3175.9	3050.2	2974.8	2946.3	2911.1	2877.6	2780.4	2713.4	2683.2	2686.5	2711.7
37.5°	3040.2	2927.9	2879.3	2839.1	2798.8	2713.4	2631.2	2599.4	2607.8	2624.5	2636.3
40°	2902.7	2817.3	2762.0	2730.1	2639.6	2555.8	2512.2	2524.0	2539.1	2550.8	2565.9
42.5°	2768.7	2708.3	2653.0	2591.0	2467.0	2421.7	2431.8	2446.9	2460.3	2477.1	2492.1
45°	2641.3	2587.7	2524.0	2383.2	2321.2	2332.9	2348.0	2359.7	2379.8	2391.6	2406.7
47.5°	2520.6	2463.6	2351.4	2227.3	2220.6	2244.1	2257.5	2272.6	2287.7	2257.5	1245.2
50°	2384.9	2326.2	2155.3	2108.3	2123.4	2145.2	2162.0	2177.1	1939.1	770.9	593.3
52.5°	2250.8	2101.6	1992.7	2006.1	2021.2	2046.3	2058.1	1528.5	608.4	579.9	581.6
55°	2101.6	1910.6	1878.7	1895.5	1908.9	1934.0	1282.1	561.4	558.1	556.4	569.8
57.5°	1867.0	1751.4	1764.8	1781.5	1794.9	1267.0	546.4	543.0	544.7	546.4	548.0
60°	1657.5	1632.4	1647.5	1662.5	1176.5	527.9	517.9	519.5	526.2	521.2	507.8
62.5°	1491.6	1511.7	1526.8	1337.4	501.1	496.1	501.1	496.1	484.3	476.0	459.2
65°	1364.2	1384.3	1396.1	470.9	469.3	476.0	470.9	454.2	435.7	412.3	407.3
67.5°	1230.1	1250.3	447.5	435.7	442.5	434.1	414.0	393.8	380.4	360.3	351.9
70°	1091.0	467.6	405.6	403.9	392.2	378.8	357.0	336.9	320.1	311.7	303.3
72.5°	787.7	370.4	365.4	351.9	331.8	313.4	295.0	283.2	274.9	269.8	264.8
75°	328.5	321.8	306.7	283.2	263.1	254.7	241.3	233.0	229.6	219.5	216.2
77.5°	274.9	261.4	239.7	222.9	211.2	206.1	196.1	186.0	181.0	179.3	172.6
80°	211.2	192.7	182.7	174.3	170.9	159.2	147.5	142.5	139.1	137.4	132.4
82.5°	144.1	137.4	130.7	119.0	119.0	114.0	108.9	105.6	102.2	102.2	98.9
85°	93.9	88.8	87.1	82.1	82.1	78.8	77.1	75.4	73.7	72.1	70.4
87.5°	53.6	53.6	55.3	53.6	53.6	52.0	50.3	48.6	46.9	46.9	43.6
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: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3663.6	3680.4	3683.7	3740.7	3772.6	3770.9	3760.8	3791.0	3772.6	3762.5	3772.6
5°	3858.0	3878.1	3894.9	3956.9	3978.7	3988.8	3987.1	4003.8	3990.4	3978.7	3978.7
7.5°	3953.6	3960.3	3967.0	3951.9	3941.8	3925.1	3899.9	3863.1	3844.6	3824.5	3799.4
10°	3796.0	3774.2	3782.6	3752.4	3727.3	3708.9	3685.4	3655.2	3630.1	3611.7	3583.2
12.5°	3603.3	3601.6	3605.0	3610.0	3584.9	3569.8	3551.3	3529.5	3511.1	3491.0	3467.5
15°	3486.0	3487.6	3501.1	3496.0	3487.6	3479.3	3459.2	3452.5	3435.7	3413.9	3400.5
17.5°	3402.2	3410.6	3424.0	3417.3	3403.8	3395.5	3380.4	3365.3	3350.2	3333.5	3313.3
20°	3328.4	3336.8	3345.2	3336.8	3311.7	3299.9	3279.8	3232.9	3199.4	3165.9	3135.7
22.5°	3248.0	3253.0	3246.3	3219.5	3155.8	3125.6	3102.2	3088.8	3060.3	3041.8	3023.4
25°	3147.4	3118.9	3075.4	3045.2	3020.1	3006.7	2996.6	2994.9	2991.6	2988.2	2979.8
27.5°	2983.2	2973.1	2949.7	2937.9	2939.6	2944.6	2946.3	2951.3	2946.3	2939.6	2932.9
30°	2860.8	2865.9	2867.5	2870.9	2879.3	2884.3	2886.0	2892.7	2889.3	2884.3	2881.0
32.5°	2783.7	2795.5	2802.2	2812.2	2817.3	2825.6	2825.6	2835.7	2825.6	2824.0	2820.6
35°	2720.1	2730.1	2733.5	2748.6	2753.6	2762.0	2762.0	2770.3	2762.0	2676.5	2113.4
37.5°	2656.4	2666.4	2673.1	2686.5	2688.2	2693.2	2485.4	1818.4	1173.2	908.4	693.8
40°	2581.0	2592.7	2599.4	2604.4	1830.1	1161.4	799.4	650.3	650.3	655.3	660.3
42.5°	2500.5	2508.9	1748.0	1017.3	633.5	631.8	636.9	641.9	646.9	653.6	660.3
45°	1965.9	992.2	630.2	615.1	620.1	626.8	633.5	640.2	648.6	655.3	658.6
47.5°	645.2	605.0	613.4	606.7	615.1	623.5	630.2	636.9	638.5	640.2	638.5
50°	596.6	596.6	601.7	601.7	608.4	611.7	611.7	611.7	605.0	603.3	598.3
52.5°	576.5	589.9	583.2	586.6	583.2	578.2	573.2	568.1	558.1	554.7	548.0
55°	566.5	571.5	554.7	549.7	543.0	529.6	522.9	516.2	507.8	504.5	496.1
57.5°	543.0	531.3	512.8	504.5	492.7	479.3	472.6	467.6	459.2	455.9	450.8
60°	499.4	476.0	464.2	454.2	440.8	429.0	424.0	420.7	414.0	412.3	407.3
62.5°	445.8	425.7	415.6	402.2	392.2	385.5	380.4	378.8	372.1	372.1	368.7
65°	387.1	377.1	368.7	355.3	350.3	343.6	341.9	340.2	336.9	335.2	331.8
67.5°	340.2	333.5	321.8	315.1	311.7	306.7	303.3	300.0	293.3	289.9	284.9
70°	298.3	293.3	281.6	276.5	269.8	261.4	256.4	253.1	248.0	244.7	239.7
72.5°	258.1	243.0	234.6	229.6	224.6	216.2	214.5	211.2	206.1	204.5	199.4
75°	207.8	196.1	191.1	187.7	182.7	177.7	177.7	177.7	172.6	170.9	169.3
77.5°	165.9	159.2	155.9	152.5	150.8	147.5	142.5	140.8	135.8	135.8	134.1
80°	127.4	124.0	120.7	119.0	117.3	114.0	110.6	108.9	103.9	103.9	102.2
82.5°	93.9	92.2	90.5	88.8	87.1	85.5	80.4	78.8	75.4	75.4	73.7
85°	67.0	65.4	62.0	60.3	60.3	58.7	53.6	52.0	48.6	48.6	48.6
87.5°	41.9	40.2	38.5	36.9	35.2	33.5	30.2	28.5	28.5	25.1	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3752.4	3780.9	3777.6	3797.7	3802.7	3812.8	3816.1	3817.8	3792.7	3812.8	3814.5
5°	3973.7	3978.7	3982.1	3990.4	3998.8	4000.5	3992.1	3982.1	3985.4	3978.7	3961.9
7.5°	3796.0	3770.9	3765.9	3759.2	3755.8	3752.4	3737.4	3750.8	3735.7	3729.0	3705.5
10°	3578.1	3554.7	3553.0	3553.0	3558.0	3556.4	3553.0	3546.3	3559.7	3551.3	3546.3
12.5°	3464.2	3455.8	3460.8	3457.5	3470.9	3474.2	3470.9	3470.9	3467.5	3460.8	3464.2
15°	3395.5	3388.8	3393.8	3388.8	3398.8	3400.5	3392.1	3397.1	3388.8	3380.4	3377.0
17.5°	3305.0	3289.9	3278.2	3261.4	3263.1	3259.7	3249.7	3249.7	3241.3	3219.5	3221.2
20°	3130.7	3115.6	3108.9	3108.9	3117.3	3120.6	3118.9	3122.3	3113.9	3110.6	3097.2
22.5°	3021.7	3020.1	3023.4	3031.8	3045.2	3063.6	3065.3	3065.3	3065.3	3063.6	3046.9
25°	2983.2	2983.2	2986.5	2998.3	3008.3	3021.7	3025.1	3028.4	3025.1	3025.1	3010.0
27.5°	2939.6	2936.3	2943.0	2954.7	2966.4	2976.5	2984.9	2986.5	2981.5	2981.5	2986.5
30°	2886.0	2884.3	2892.7	2904.4	2914.5	2924.5	2932.9	2939.6	2932.9	2932.9	2927.9
32.5°	2830.7	2830.7	2834.0	2763.6	2562.5	2307.8	2312.8	2165.3	2063.1	1934.0	2105.0
35°	1766.4	1285.5	1104.4	935.2	816.2	739.1	737.4	712.3	700.5	692.2	690.5
37.5°	667.0	670.4	677.1	680.4	685.5	688.8	690.5	690.5	690.5	690.5	688.8
40°	665.4	672.1	677.1	682.1	687.1	690.5	690.5	692.2	693.8	693.8	693.8
42.5°	667.0	673.7	680.4	685.5	688.8	690.5	692.2	693.8	693.8	693.8	693.8
45°	665.4	668.7	668.7	670.4	670.4	670.4	672.1	672.1	670.4	668.7	672.1
47.5°	640.2	640.2	635.2	633.5	631.8	628.5	630.2	628.5	626.8	625.1	628.5
50°	596.6	589.9	586.6	583.2	581.6	578.2	579.9	578.2	576.5	573.2	578.2
52.5°	544.7	543.0	536.3	533.0	531.3	533.0	529.6	527.9	526.2	524.6	526.2
55°	494.4	487.7	486.0	482.7	481.0	482.7	481.0	479.3	477.6	476.0	477.6
57.5°	449.2	444.1	442.5	439.1	439.1	439.1	439.1	437.4	435.7	434.1	435.7
60°	405.6	402.2	400.6	400.6	398.9	398.9	398.9	397.2	395.5	395.5	397.2
62.5°	368.7	368.7	363.7	362.0	362.0	363.7	362.0	360.3	358.7	357.0	360.3
65°	330.2	323.5	321.8	318.4	315.1	316.8	315.1	313.4	311.7	310.1	313.4
67.5°	283.2	281.6	274.9	271.5	269.8	271.5	269.8	268.2	266.5	264.8	268.2
70°	238.0	238.0	231.3	229.6	227.9	227.9	226.3	226.3	224.6	222.9	226.3
72.5°	197.8	197.8	196.1	192.7	191.1	189.4	187.7	186.0	186.0	187.7	187.7
75°	164.2	160.9	154.2	155.9	154.2	152.5	152.5	150.8	149.2	152.5	150.8
77.5°	129.0	127.4	122.3	124.0	122.3	120.7	120.7	119.0	117.3	119.0	119.0
80°	97.2	97.2	95.5	93.9	93.9	92.2	90.5	90.5	88.8	90.5	90.5
82.5°	70.4	70.4	68.7	67.0	65.4	65.4	63.7	63.7	63.7	63.7	63.7
85°	45.3	43.6	43.6	40.2	40.2	40.2	38.5	38.5	38.5	38.5	38.5
87.5°	21.8	21.8	20.1	20.1	18.4	16.8	16.8	15.1	15.1	16.8	16.8
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-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3784.3	3806.1	3787.6	3796.0	3797.7	3826.2	3824.5	3831.2	3819.5	3806.1	3787.6
5°	3977.0	3967.0	3953.6	3985.4	3968.6	3988.8	3995.5	4008.9	4008.9	4007.2	3992.1
7.5°	3730.7	3708.9	3725.6	3737.4	3742.4	3729.0	3755.8	3786.0	3811.1	3826.2	3827.9
10°	3537.9	3544.6	3543.0	3548.0	3559.7	3558.0	3574.8	3591.6	3598.3	3608.3	3611.7
12.5°	3447.4	3445.7	3449.1	3460.8	3467.5	3465.9	3482.6	3492.7	3496.0	3497.7	3496.0
15°	3375.4	3363.6	3372.0	3373.7	3378.7	3378.7	3398.8	3413.9	3420.6	3424.0	3420.6
17.5°	3239.6	3211.1	3237.9	3237.9	3256.4	3253.0	3284.9	3310.0	3323.4	3333.5	3333.5
20°	3105.5	3092.1	3102.2	3098.8	3112.2	3110.6	3130.7	3147.4	3159.2	3167.5	3177.6
22.5°	3051.9	3055.3	3040.2	3041.8	3041.8	3040.2	3050.2	3058.6	3062.0	3067.0	3063.6
25°	3016.7	3020.1	3015.0	3006.7	3003.3	3006.7	3011.7	3021.7	3023.4	3020.1	3008.3
27.5°	2981.5	2971.5	2979.8	2964.8	2961.4	2968.1	2974.8	2976.5	2978.2	2978.2	2968.1
30°	2927.9	2919.5	2927.9	2921.2	2914.5	2921.2	2926.2	2926.2	2929.6	2931.2	2919.5
32.5°	2046.3	2063.1	2334.6	2498.8	2730.1	2847.4	2869.2	2869.2	2872.6	2872.6	2862.5
35°	697.2	698.9	755.9	819.5	955.3	1122.9	1342.4	1456.4	1841.9	2302.8	2748.6
37.5°	688.8	687.1	685.5	683.8	682.1	680.4	677.1	675.4	685.5	812.8	1102.8
40°	692.2	690.5	687.1	685.5	683.8	680.4	678.8	675.4	672.1	668.7	665.4
42.5°	692.2	690.5	688.8	687.1	685.5	683.8	680.4	677.1	673.7	668.7	663.7
45°	668.7	668.7	670.4	670.4	672.1	672.1	672.1	670.4	670.4	668.7	662.0
47.5°	625.1	625.1	630.2	630.2	633.5	636.9	636.9	640.2	645.2	648.6	650.3
50°	574.9	574.9	579.9	581.6	584.9	589.9	595.0	596.6	601.7	608.4	615.1
52.5°	524.6	524.6	529.6	529.6	533.0	538.0	543.0	544.7	551.4	558.1	566.5
55°	477.6	477.6	481.0	482.7	484.3	487.7	492.7	492.7	499.4	504.5	512.8
57.5°	435.7	439.1	439.1	439.1	440.8	444.1	447.5	447.5	452.5	457.5	464.2
60°	395.5	398.9	398.9	398.9	400.6	402.2	405.6	405.6	408.9	412.3	419.0
62.5°	358.7	362.0	362.0	363.7	363.7	365.4	368.7	367.0	370.4	372.1	377.1
65°	311.7	315.1	316.8	318.4	320.1	323.5	328.5	326.8	331.8	335.2	340.2
67.5°	266.5	269.8	269.8	271.5	273.2	276.5	279.9	279.9	284.9	288.3	295.0
70°	224.6	227.9	227.9	229.6	231.3	234.6	238.0	236.3	241.3	244.7	249.7
72.5°	186.0	189.4	189.4	191.1	191.1	194.4	197.8	201.1	201.1	204.5	207.8
75°	150.8	152.5	154.2	154.2	155.9	157.5	160.9	164.2	165.9	167.6	170.9
77.5°	119.0	120.7	122.3	122.3	124.0	125.7	127.4	134.1	137.4	139.1	139.1
80°	90.5	92.2	92.2	92.2	93.9	95.5	98.9	98.9	105.6	105.6	107.3
82.5°	63.7	65.4	65.4	65.4	67.0	70.4	72.1	73.7	77.1	78.8	78.8
85°	38.5	40.2	40.2	40.2	41.9	43.6	46.9	48.6	50.3	50.3	52.0
87.5°	15.1	16.8	18.4	18.4	20.1	21.8	23.5	25.1	26.8	26.8	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3767.5	3779.3	3767.5	3774.2	3782.6	3767.5	3732.3	3718.9	3713.9	3693.8	3680.4
5°	3977.0	3977.0	3972.0	3985.4	3983.7	3960.3	3923.4	3906.6	3889.9	3868.1	3851.3
7.5°	3827.9	3841.3	3849.7	3901.6	3935.1	3938.5	3961.9	3967.0	3973.7	3967.0	3956.9
10°	3613.3	3608.3	3631.8	3680.4	3708.9	3724.0	3769.2	3791.0	3809.4	3846.3	3884.8
12.5°	3492.7	3499.4	3509.4	3544.6	3571.4	3564.7	3583.2	3598.3	3620.0	3656.9	3712.2
15°	3412.2	3418.9	3429.0	3455.8	3472.6	3464.2	3474.2	3484.3	3499.4	3517.8	3551.3
17.5°	3325.1	3336.8	3348.5	3377.0	3392.1	3390.4	3398.8	3402.2	3407.2	3418.9	3442.4
20°	3189.3	3226.2	3249.7	3288.2	3310.0	3306.6	3321.7	3326.8	3333.5	3345.2	3355.2
22.5°	3065.3	3075.4	3087.1	3129.0	3165.9	3211.1	3221.2	3234.6	3251.3	3263.1	3273.1
25°	2994.9	2988.2	2993.2	3021.7	3041.8	3045.2	3060.3	3103.9	3149.1	3169.2	3192.7
27.5°	2953.0	2946.3	2944.6	2958.0	2961.4	2953.0	2949.7	2963.1	2996.6	3030.1	3100.5
30°	2907.8	2899.4	2892.7	2904.4	2909.4	2897.7	2875.9	2864.2	2884.3	2892.7	2921.2
32.5°	2854.1	2845.8	2842.4	2849.1	2852.5	2842.4	2818.9	2805.5	2802.2	2795.5	2802.2
35°	2793.8	2785.4	2780.4	2782.1	2788.8	2780.4	2760.3	2743.5	2735.1	2716.7	2703.3
37.5°	1439.6	2039.6	2648.0	2711.7	2718.4	2716.7	2696.6	2678.2	2669.8	2648.0	2641.3
40°	658.6	735.7	1104.4	1443.0	2081.5	2644.6	2626.2	2607.8	2592.7	2586.0	2560.8
42.5°	657.0	658.6	660.3	651.9	807.8	1376.0	2031.2	2535.7	2525.7	2508.9	2490.5
45°	657.0	648.6	655.3	645.2	648.6	646.9	806.1	1300.5	2314.5	2418.4	2410.0
47.5°	650.3	645.2	651.9	643.6	633.5	638.5	631.8	640.2	998.9	1694.4	2321.2
50°	620.1	623.5	635.2	633.5	625.1	631.8	620.1	630.2	621.8	682.1	1313.9
52.5°	574.9	581.6	593.3	603.3	606.7	615.1	611.7	615.1	608.4	610.0	611.7
55°	521.2	529.6	539.7	554.7	561.4	574.9	584.9	589.9	598.3	596.6	583.2
57.5°	470.9	479.3	487.7	502.8	517.9	524.6	543.0	553.1	574.9	569.8	566.5
60°	424.0	430.7	439.1	442.5	460.9	472.6	489.4	499.4	527.9	534.6	544.7
62.5°	382.1	385.5	392.2	397.2	408.9	420.7	429.0	445.8	460.9	482.7	497.8
65°	343.6	346.9	351.9	355.3	357.0	373.7	378.8	397.2	402.2	425.7	439.1
67.5°	300.0	306.7	313.4	316.8	320.1	330.2	333.5	341.9	353.6	363.7	380.4
70°	254.7	259.8	266.5	271.5	278.2	284.9	295.0	300.0	308.4	315.1	328.5
72.5°	212.8	217.9	221.2	226.3	231.3	236.3	244.7	256.4	263.1	274.9	278.2
75°	172.6	177.7	181.0	184.4	189.4	192.7	196.1	207.8	214.5	224.6	234.6
77.5°	142.5	142.5	145.8	155.9	154.2	154.2	157.5	164.2	169.3	176.0	186.0
80°	110.6	112.3	114.0	122.3	124.0	125.7	124.0	129.0	134.1	135.8	142.5
82.5°	82.1	83.8	83.8	88.8	93.9	93.9	93.9	95.5	100.6	102.2	105.6
85°	55.3	57.0	58.7	60.3	63.7	65.4	67.0	67.0	70.4	72.1	73.7
87.5°	30.2	33.5	35.2	36.9	38.5	40.2	41.9	43.6	45.3	46.9	48.6
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: 8SNLED-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3675.4	3667.0	3661.9	3648.5	3645.2	3623.4	3626.8	3623.4	3623.4	3628.4	3645.2
5°	3832.9	3792.7	3782.6	3754.1	3730.7	3690.4	3665.3	3651.9	3631.8	3623.4	3635.1
7.5°	3940.2	3910.0	3884.8	3859.7	3826.2	3779.3	3744.1	3703.8	3670.3	3638.5	3630.1
10°	3921.7	3955.2	3955.2	3940.2	3908.3	3861.4	3819.5	3769.2	3710.5	3660.3	3630.1
12.5°	3765.9	3824.5	3871.4	3906.6	3938.5	3906.6	3864.7	3824.5	3759.2	3685.4	3630.1
15°	3594.9	3655.2	3713.9	3787.6	3864.7	3896.6	3894.9	3848.0	3789.3	3712.2	3635.1
17.5°	3474.2	3516.1	3548.0	3628.4	3722.3	3804.4	3859.7	3863.1	3806.1	3737.4	3636.8
20°	3383.7	3413.9	3440.7	3486.0	3568.1	3668.6	3770.9	3827.9	3817.8	3742.4	3641.8
22.5°	3301.6	3323.4	3345.2	3378.7	3444.1	3509.4	3628.4	3745.7	3796.0	3734.0	3636.8
25°	3219.5	3243.0	3259.7	3283.2	3335.1	3388.8	3472.6	3618.4	3730.7	3727.3	3626.8
27.5°	3122.3	3154.1	3174.2	3206.1	3241.3	3281.5	3338.5	3475.9	3636.8	3693.8	3599.9
30°	3005.0	3051.9	3082.1	3117.3	3147.4	3182.6	3227.9	3311.7	3511.1	3628.4	3571.4
32.5°	2835.7	2919.5	2986.5	3020.1	3053.6	3083.7	3124.0	3194.4	3356.9	3539.6	3539.6
35°	2715.0	2753.6	2813.9	2911.1	2953.0	2983.2	3020.1	3075.4	3179.3	3434.0	3487.6
37.5°	2621.2	2636.3	2666.4	2762.0	2840.7	2889.3	2926.2	2961.4	3063.6	3289.9	3420.6
40°	2550.8	2545.8	2542.4	2587.7	2700.0	2777.0	2818.9	2854.1	2932.9	3117.3	3331.8
42.5°	2468.7	2463.6	2446.9	2458.6	2513.9	2643.0	2706.7	2745.2	2810.6	2936.3	3234.6
45°	2383.2	2374.8	2368.1	2356.4	2376.5	2448.6	2579.3	2636.3	2673.1	2785.4	3112.2
47.5°	2296.0	2284.3	2275.9	2265.9	2254.1	2287.7	2411.7	2513.9	2577.6	2648.0	2964.8
50°	2172.0	2187.1	2177.1	2165.3	2155.3	2148.6	2200.5	2368.1	2446.9	2503.9	2785.4
52.5°	1024.0	1991.0	2074.8	2063.1	2049.7	2038.0	2049.7	2177.1	2319.5	2364.8	2569.2
55°	583.2	886.6	1845.2	1950.8	1939.1	1922.3	1912.3	1955.8	2168.7	2229.0	2371.5
57.5°	561.4	563.1	814.5	1758.1	1823.4	1808.3	1796.6	1806.7	1987.7	2089.9	2198.8
60°	543.0	543.0	543.0	777.6	1681.0	1686.0	1670.9	1654.2	1732.9	1934.0	2024.5
62.5°	502.8	512.8	517.9	517.9	767.6	1557.0	1541.9	1536.8	1540.2	1746.3	1850.2
65°	450.8	474.3	484.3	491.1	491.1	806.1	1409.5	1401.1	1389.4	1468.1	1674.3
67.5°	393.8	417.3	439.1	452.5	454.2	469.3	841.3	1262.0	1245.2	1246.9	1486.6
70°	335.2	355.3	378.8	398.9	417.3	425.7	439.1	1047.5	1102.8	1079.3	1273.7
72.5°	289.9	298.3	315.1	335.2	357.0	377.1	388.8	417.3	957.0	931.8	968.7
75°	241.3	248.0	259.8	273.2	289.9	313.4	333.5	353.6	507.8	781.0	776.0
77.5°	187.7	199.4	212.8	221.2	229.6	246.4	273.2	293.3	313.4	527.9	621.8
80°	144.1	152.5	159.2	167.6	177.7	189.4	199.4	222.9	246.4	264.8	476.0
82.5°	107.3	112.3	117.3	120.7	124.0	130.7	149.2	157.5	172.6	189.4	224.6
85°	75.4	78.8	82.1	83.8	85.5	87.1	93.9	95.5	110.6	114.0	135.8
87.5°	48.6	50.3	53.6	55.3	55.3	57.0	58.7	58.7	58.7	55.3	67.0
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-LD5-86SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3656.9	3656.9
2.5°	3658.6	3685.4
5°	3653.6	3688.8
7.5°	3640.2	3673.7
10°	3620.0	3660.3
12.5°	3598.3	3636.8
15°	3579.8	3608.3
17.5°	3559.7	3576.5
20°	3532.9	3546.3
22.5°	3506.1	3499.4
25°	3475.9	3460.8
27.5°	3437.4	3408.9
30°	3402.2	3351.9
32.5°	3368.7	3286.5
35°	3323.4	3219.5
37.5°	3276.5	3150.8
40°	3221.2	3072.0
42.5°	3162.5	2993.2
45°	3088.8	2917.8
47.5°	3023.4	2827.3
50°	2932.9	2730.1
52.5°	2822.3	2639.6
55°	2691.6	2529.0
57.5°	2550.8	2413.4
60°	2400.0	2281.0
62.5°	2217.3	2143.5
65°	2002.8	1986.0
67.5°	1722.9	1811.7
70°	1412.8	1612.3
72.5°	1181.5	1401.1
75°	968.7	1164.8
77.5°	767.6	913.4
80°	479.3	668.7
82.5°	321.8	439.1
85°	194.4	209.5
87.5°	75.4	77.1
90°	0.0	0.0

(END OF REPORT)