

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-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: 8SNLED-LD5-86SL-RW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

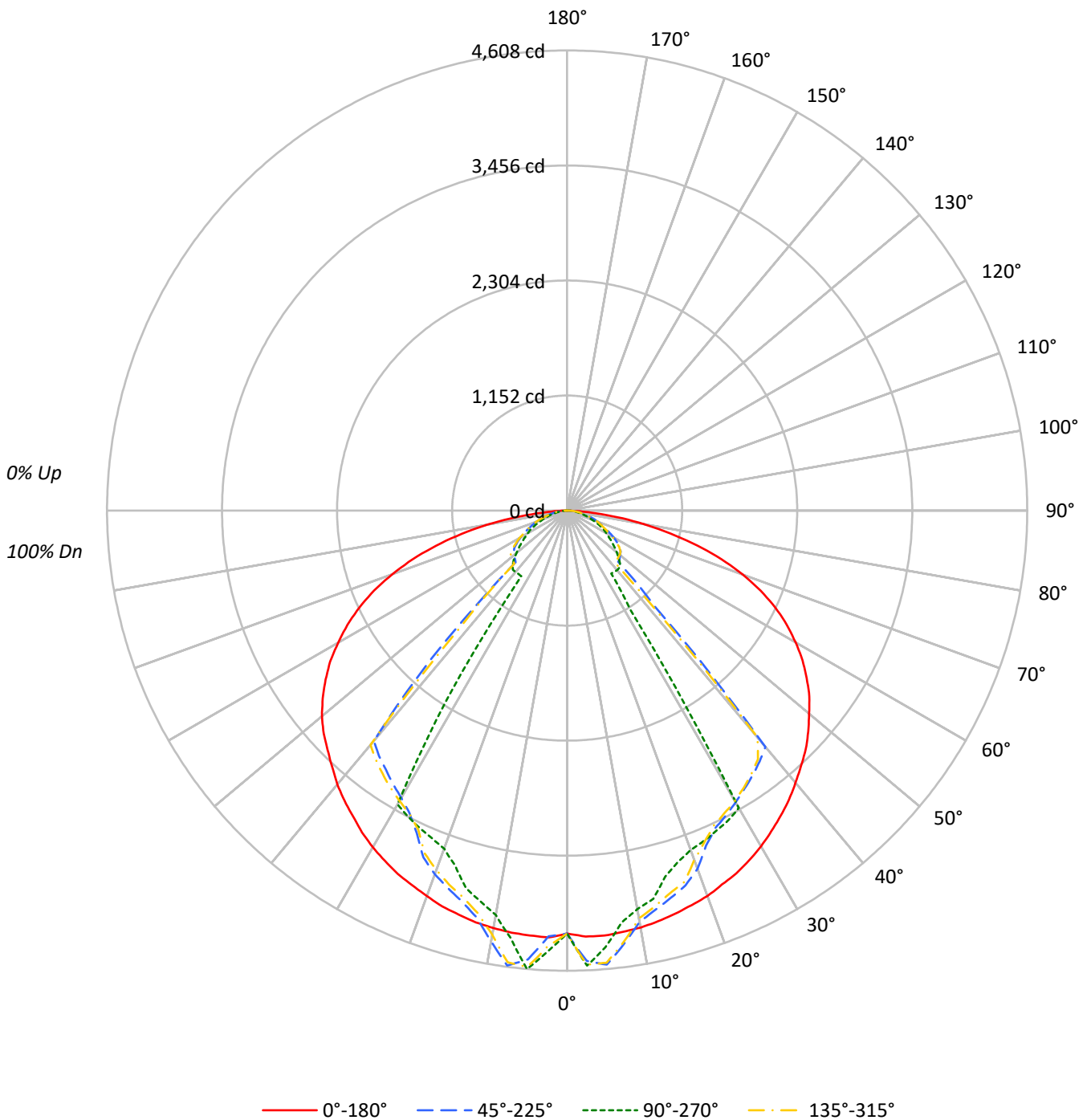
Lumens per Lamp: N/A
Luminaire Lumens: 8482.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-86SL-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					87			
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75					75			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65					65			
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57					57			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46					46			
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41					41			
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17114	17114	17114	17114
5°	17306	17243	17298	18097
10°	17347	15590	17370	15829
15°	17410	14424	17450	14881
20°	17562	13681	17562	13630
25°	17742	13419	17768	13294
30°	17952	13183	17997	13026
35°	18194	3002	18232	3131
40°	18525	3122	18636	3224
45°	19014	3105	19080	3218
50°	19514	2807	19777	2883
55°	20185	2492	20345	2528
60°	20787	2215	20833	2243
65°	21279	1933	21226	1902
70°	21153	1558	21087	1502
75°	19901	1199	20044	1148
80°	16554	852	17219	779
85°	9543	510	10078	391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	4.9
10°-20°	1145.8	13.5
20°-30°	1697.2	20.0
30°-40°	1710.1	20.2
40°-50°	1335.8	15.7
50°-60°	1031.8	12.2
60°-70°	692.8	8.2
70°-80°	353.4	4.2
80°-90°	98.3	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°	3259.8	38.4
0°-40°	4969.9	58.6
0°-60°	7337.5	86.5
0°-90°	8482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8482.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4236	4236	4236	4236	4236	
5°	4273	4391	4271	4608	4273	406
15°	4179	3795	4189	3915	4179	1182
25°	4009	3537	4014	3504	4009	1849
35°	3729	769	3737	802	3729	2337
45°	3380	747	3391	774	3380	2606
55°	2929	544	2953	551	2929	2616
65°	2300	365	2294	359	2300	2262
75°	1349	184	1359	177	1349	1411
85°	243	58	256	45	243	334
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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4268.7	4284.2	4295.9	4303.6	4307.5	4307.5	4309.5	4311.4	4336.6	4348.3	4356.0
5°	4272.6	4288.1	4311.4	4342.5	4369.6	4392.9	4412.3	4439.5	4466.7	4495.8	4505.5
7.5°	4255.1	4274.5	4321.1	4377.4	4429.8	4466.7	4491.9	4509.4	4523.0	4524.9	4534.6
10°	4239.6	4274.5	4338.6	4412.3	4478.3	4523.0	4523.0	4513.3	4526.9	4474.5	4422.0
12.5°	4212.4	4251.2	4338.6	4435.6	4497.8	4515.2	4507.5	4468.6	4389.0	4325.0	4295.9
15°	4179.4	4231.8	4340.5	4449.2	4501.6	4507.5	4433.7	4334.7	4274.5	4235.7	4187.2
17.5°	4142.5	4212.4	4342.5	4451.2	4470.6	4443.4	4303.6	4241.5	4179.4	4088.2	4022.2
20°	4107.6	4175.5	4326.9	4424.0	4435.6	4313.3	4204.6	4138.6	4033.8	3954.2	3925.1
22.5°	4053.2	4132.8	4313.3	4387.1	4342.5	4200.8	4095.9	3991.1	3896.0	3872.7	3837.7
25°	4008.6	4092.0	4282.3	4342.5	4224.0	4097.9	3975.6	3853.3	3808.6	3775.6	3744.6
27.5°	3948.4	4051.3	4241.5	4260.9	4097.9	3987.2	3808.6	3754.3	3713.5	3676.6	3663.0
30°	3882.4	4008.6	4185.2	4148.3	3993.0	3830.0	3698.0	3647.5	3618.4	3579.6	3564.0
32.5°	3806.7	3944.5	4123.1	4018.3	3880.5	3676.6	3591.2	3552.4	3513.6	3484.4	3387.4
35°	3729.0	3888.2	4049.3	3894.0	3744.6	3560.2	3484.4	3449.5	3412.6	3305.9	3204.9
37.5°	3649.5	3826.1	3960.0	3760.1	3564.0	3439.8	3375.7	3336.9	3253.4	3117.6	3067.1
40°	3558.2	3750.4	3845.5	3622.3	3406.8	3317.5	3257.3	3218.5	3030.2	2970.0	2954.5
42.5°	3467.0	3676.6	3705.7	3488.3	3276.7	3187.4	3137.0	3008.9	2880.7	2849.7	2855.5
45°	3379.6	3597.0	3552.4	3298.1	3140.9	3067.1	2981.7	2805.0	2737.1	2752.6	2756.5
47.5°	3274.8	3501.9	3391.3	3107.9	3001.1	2927.3	2737.1	2630.3	2620.6	2642.0	2653.6
50°	3162.2	3395.2	3220.4	2935.1	2849.7	2762.3	2546.9	2492.5	2504.1	2525.5	2539.1
52.5°	3057.4	3274.8	3043.8	2774.0	2700.2	2500.3	2354.7	2364.4	2383.8	2409.0	2416.8
55°	2929.3	3129.2	2855.5	2610.9	2541.0	2279.0	2213.0	2236.3	2255.7	2277.0	2292.6
57.5°	2795.3	2962.3	2632.3	2428.4	2315.8	2082.9	2088.7	2104.3	2117.8	2143.1	885.2
60°	2642.0	2772.0	2387.7	2259.6	2036.3	1927.6	1933.4	1960.6	1974.2	1102.6	609.5
62.5°	2482.8	2550.7	2166.4	2067.4	1780.1	1772.3	1799.5	1811.1	1232.7	582.4	570.7
65°	2300.3	2286.7	1949.0	1791.7	1605.4	1613.1	1642.3	1584.0	545.5	545.5	541.6
67.5°	2098.4	2016.9	1737.4	1483.1	1436.5	1454.0	1485.0	518.3	504.7	508.6	495.0
70°	1867.4	1752.9	1518.0	1256.0	1271.5	1289.0	500.8	469.8	463.9	454.2	427.1
72.5°	1622.8	1465.6	1242.4	1091.0	1100.7	691.1	438.7	423.2	403.8	384.4	355.2
75°	1349.1	1145.3	912.4	912.4	926.0	394.1	382.4	357.2	335.8	310.6	293.1
77.5°	1058.0	881.3	708.5	735.7	359.1	330.0	308.7	281.5	264.0	248.5	238.8
80°	774.5	615.4	533.8	477.5	279.5	250.4	229.1	213.5	205.8	196.1	184.4
82.5°	508.6	370.8	370.8	225.2	196.1	172.8	166.9	155.3	147.5	141.7	135.9
85°	242.6	215.5	163.1	137.8	122.3	110.6	106.8	100.9	100.9	99.0	97.1
87.5°	89.3	97.1	71.8	69.9	66.0	64.1	66.0	66.0	67.9	66.0	64.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4375.5	4391.0	4402.6	4422.0	4447.3	4468.6	4488.0	4515.2	4557.9	4569.6	4579.3
5°	4505.5	4511.3	4524.9	4540.5	4544.3	4554.0	4552.1	4563.8	4569.6	4583.2	4554.0
7.5°	4513.3	4482.2	4445.3	4412.3	4389.0	4367.7	4354.1	4375.5	4387.1	4396.8	4367.7
10°	4350.2	4313.3	4292.0	4272.6	4249.3	4216.3	4171.6	4181.3	4177.5	4177.5	4167.8
12.5°	4247.3	4194.9	4140.6	4092.0	4070.7	4068.7	4070.7	4092.0	4092.0	4090.1	4078.5
15°	4086.2	4035.7	4008.6	3996.9	3996.9	3991.1	3991.1	4014.4	4008.6	4008.6	4002.7
17.5°	3979.5	3944.5	3925.1	3911.5	3905.7	3915.4	3927.0	3936.7	3938.7	3930.9	3899.9
20°	3892.1	3859.1	3835.8	3839.7	3837.7	3843.6	3849.4	3816.4	3775.6	3721.3	3696.0
22.5°	3800.9	3775.6	3758.2	3758.2	3734.9	3698.0	3643.6	3632.0	3626.2	3600.9	3579.6
25°	3713.5	3684.4	3659.2	3581.5	3533.0	3538.8	3529.1	3509.7	3507.7	3505.8	3513.6
27.5°	3626.2	3550.4	3453.4	3441.7	3422.3	3420.4	3432.0	3441.7	3441.7	3449.5	3459.2
30°	3445.6	3358.3	3340.8	3319.4	3327.2	3354.4	3360.2	3373.8	3377.7	3391.3	3399.0
32.5°	3280.6	3241.8	3226.3	3236.0	3261.2	3284.5	3298.1	3303.9	3313.6	3325.3	3335.0
35°	3146.7	3135.0	3148.6	3170.0	3195.2	3214.6	3226.3	3237.9	3247.6	3257.3	3265.1
37.5°	3047.7	3055.4	3074.9	3102.0	3127.3	3142.8	3152.5	3166.1	3179.7	3191.3	3144.7
40°	2954.5	2973.9	2995.3	3024.4	3045.7	3061.3	3071.0	3088.4	2972.0	1345.2	737.7
42.5°	2873.0	2894.3	2909.9	2933.1	2956.4	2968.1	2882.7	1287.0	727.9	724.1	733.8
45°	2774.0	2791.4	2816.7	2834.1	2855.5	1875.2	716.3	724.1	712.4	720.2	724.1
47.5°	2673.0	2700.2	2713.8	2589.6	770.7	712.4	704.7	712.4	704.7	714.4	708.5
50°	2558.5	2591.5	1844.1	696.9	691.1	687.2	694.9	691.1	696.9	704.7	689.1
52.5°	2442.0	1512.2	675.5	671.7	675.5	671.7	685.2	675.5	677.5	669.7	650.3
55°	827.0	654.2	648.4	646.4	658.1	658.1	658.1	642.5	632.8	613.4	599.8
57.5°	632.8	632.8	630.9	632.8	628.9	625.1	607.6	594.0	580.4	553.2	545.5
60°	599.8	599.8	599.8	599.8	582.4	574.6	547.4	535.8	512.5	498.9	491.1
62.5°	572.7	568.8	551.3	545.5	526.1	504.7	489.2	477.5	454.2	446.5	440.7
65°	533.8	520.2	498.9	475.6	465.9	442.6	434.8	417.4	405.7	399.9	396.0
67.5°	469.8	450.4	432.9	417.4	399.9	392.1	382.4	368.8	361.1	357.2	353.3
70°	401.8	388.2	370.8	361.1	349.4	343.6	330.0	326.1	320.3	314.5	308.7
72.5°	335.8	328.1	320.3	306.7	302.8	298.9	285.4	277.6	269.8	262.1	258.2
75°	281.5	275.7	271.8	260.1	254.3	242.6	232.9	227.1	221.3	215.5	211.6
77.5°	231.0	227.1	215.5	207.7	203.8	194.1	190.2	192.2	188.3	180.5	176.6
80°	180.5	176.6	166.9	166.9	163.1	159.2	155.3	151.4	147.5	141.7	137.8
82.5°	137.8	133.9	130.1	126.2	122.3	120.4	118.4	114.5	110.6	106.8	104.8
85°	97.1	95.1	93.2	91.2	89.3	87.4	85.4	81.5	77.6	75.7	73.8
87.5°	66.0	64.1	62.1	60.2	58.2	56.3	54.4	52.4	48.5	46.6	44.6
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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4579.3	4589.0	4579.3	4557.9	4544.3	4538.5	4550.2	4550.2	4557.9	4567.6	4569.6
5°	4507.5	4484.2	4457.0	4429.8	4416.2	4408.5	4387.1	4391.0	4396.8	4400.7	4404.6
7.5°	4328.9	4297.8	4260.9	4226.0	4212.4	4200.8	4175.5	4175.5	4175.5	4177.5	4189.1
10°	4146.4	4132.8	4117.3	4094.0	4076.5	4070.7	4049.3	4055.2	4051.3	4057.1	4070.7
12.5°	4061.0	4045.5	4031.9	4008.6	3989.2	3981.4	3971.7	3977.5	3975.6	3985.3	3996.9
15°	3983.3	3975.6	3960.0	3942.6	3925.1	3909.6	3874.6	3863.0	3855.2	3845.5	3859.1
17.5°	3855.2	3800.9	3764.0	3736.8	3717.4	3703.8	3694.1	3694.1	3699.9	3705.7	3717.4
20°	3680.5	3665.0	3647.5	3618.4	3599.0	3591.2	3585.4	3585.4	3595.1	3602.9	3624.2
22.5°	3560.2	3558.2	3552.4	3538.8	3529.1	3529.1	3531.0	3534.9	3548.5	3560.2	3581.5
25°	3503.9	3511.6	3507.7	3500.0	3494.2	3496.1	3492.2	3496.1	3509.7	3521.3	3538.8
27.5°	3459.2	3470.9	3467.0	3455.3	3445.6	3449.5	3455.3	3451.4	3463.1	3476.7	3490.3
30°	3399.0	3401.0	3408.7	3395.2	3391.3	3397.1	3399.0	3402.9	3414.6	3424.3	3435.9
32.5°	3331.1	3346.6	3344.7	3331.1	3331.1	3336.9	3338.9	3208.8	2966.1	2554.6	2442.0
35°	3265.1	3282.6	3253.4	2742.9	1898.5	1013.3	782.3	755.1	760.9	764.8	768.7
37.5°	2414.8	1145.3	729.9	735.7	741.5	747.4	753.2	759.0	764.8	770.7	772.6
40°	726.0	724.1	729.9	737.7	743.5	747.4	755.1	760.9	766.8	772.6	774.5
42.5°	718.2	722.1	727.9	735.7	743.5	751.2	757.1	764.8	768.7	772.6	774.5
45°	714.4	722.1	729.9	735.7	741.5	745.4	749.3	751.2	749.3	749.3	753.2
47.5°	708.5	716.3	718.2	716.3	718.2	716.3	716.3	716.3	710.5	708.5	708.5
50°	687.2	687.2	683.3	675.5	673.6	671.7	667.8	665.8	658.1	656.1	656.1
52.5°	642.5	640.6	634.8	625.1	621.2	617.3	615.4	613.4	605.7	601.8	603.7
55°	590.1	586.2	580.4	568.8	566.8	562.9	561.0	559.1	551.3	555.2	549.4
57.5°	541.6	533.8	526.1	524.1	516.4	514.4	512.5	510.5	504.7	506.7	502.8
60°	483.4	481.4	477.5	469.8	469.8	467.8	467.8	463.9	460.1	458.1	458.1
62.5°	440.7	434.8	430.9	430.9	425.1	425.1	425.1	421.2	417.4	419.3	417.4
65°	394.1	392.1	390.2	386.3	386.3	384.4	384.4	380.5	374.7	376.6	372.7
67.5°	355.2	351.4	347.5	345.5	337.8	333.9	331.9	330.0	322.2	324.2	320.3
70°	306.7	300.9	297.0	293.1	287.3	283.4	283.4	279.5	273.7	275.7	271.8
72.5°	256.2	252.4	248.5	246.5	240.7	238.8	236.8	234.9	229.1	231.0	229.1
75°	213.5	213.5	211.6	209.6	203.8	198.0	194.1	192.2	188.3	190.2	186.4
77.5°	176.6	172.8	168.9	168.9	163.1	159.2	155.3	155.3	155.3	153.4	151.4
80°	137.8	133.9	133.9	132.0	128.1	124.2	122.3	122.3	120.4	120.4	118.4
82.5°	104.8	100.9	99.0	99.0	95.1	93.2	91.2	89.3	89.3	89.3	87.4
85°	73.8	69.9	67.9	67.9	64.1	62.1	62.1	60.2	60.2	58.2	58.2
87.5°	44.6	42.7	40.8	40.8	36.9	34.9	34.9	34.9	33.0	33.0	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4569.6	4569.6	4556.0	4559.9	4554.0	4561.8	4552.1	4552.1	4563.8	4563.8	4571.5
5°	4406.5	4396.8	4394.9	4391.0	4371.6	4379.3	4369.6	4359.9	4373.5	4373.5	4391.0
7.5°	4183.3	4165.8	4173.6	4161.9	4150.3	4132.8	4138.6	4130.9	4140.6	4154.2	4171.6
10°	4068.7	4053.2	4062.9	4051.3	4057.1	4031.9	4033.8	4035.7	4045.5	4049.3	4064.9
12.5°	3995.0	3991.1	3987.2	3983.3	3987.2	3973.6	3965.9	3967.8	3971.7	3973.6	3985.3
15°	3839.7	3814.5	3822.2	3795.0	3797.0	3798.9	3783.4	3798.9	3797.0	3822.2	3845.5
17.5°	3713.5	3713.5	3699.9	3688.3	3680.5	3678.6	3666.9	3674.7	3666.9	3682.5	3688.3
20°	3626.2	3624.2	3622.3	3616.5	3597.0	3599.0	3604.8	3587.3	3585.4	3583.5	3595.1
22.5°	3585.4	3587.3	3579.6	3579.6	3562.1	3566.0	3567.9	3548.5	3550.4	3544.6	3550.4
25°	3542.7	3546.6	3536.9	3536.9	3533.0	3531.0	3521.3	3525.2	3513.6	3503.9	3513.6
27.5°	3492.2	3500.0	3492.2	3496.1	3488.3	3484.4	3478.6	3474.7	3463.1	3461.2	3467.0
30°	3445.6	3449.5	3447.6	3437.9	3435.9	3424.3	3430.1	3418.4	3406.8	3408.7	3412.6
32.5°	1766.5	1686.9	1300.6	1174.4	1162.8	1205.5	1428.7	1739.3	2253.7	2752.6	3111.7
35°	770.7	770.7	770.7	768.7	768.7	766.8	764.8	762.9	760.9	759.0	757.1
37.5°	774.5	774.5	774.5	774.5	772.6	770.7	770.7	766.8	764.8	762.9	760.9
40°	776.5	778.4	778.4	778.4	776.5	776.5	774.5	770.7	768.7	764.8	760.9
42.5°	774.5	776.5	776.5	774.5	774.5	772.6	772.6	770.7	768.7	766.8	764.8
45°	749.3	751.2	747.4	747.4	745.4	745.4	745.4	745.4	745.4	747.4	747.4
47.5°	704.7	704.7	702.7	700.8	700.8	698.8	700.8	698.8	702.7	704.7	708.5
50°	652.2	652.2	648.4	646.4	646.4	646.4	646.4	648.4	650.3	654.2	658.1
52.5°	597.9	597.9	595.9	594.0	592.1	592.1	597.9	595.9	597.9	599.8	605.7
55°	545.5	547.4	543.5	543.5	541.6	541.6	541.6	543.5	545.5	547.4	553.2
57.5°	500.8	500.8	496.9	496.9	496.9	495.0	500.8	496.9	498.9	500.8	504.7
60°	456.2	454.2	454.2	452.3	452.3	452.3	456.2	454.2	454.2	456.2	460.1
62.5°	415.4	415.4	413.5	413.5	411.5	411.5	415.4	413.5	413.5	415.4	417.4
65°	368.8	368.8	366.9	364.9	370.8	364.9	370.8	366.9	370.8	372.7	376.6
67.5°	316.4	316.4	316.4	314.5	314.5	318.4	320.3	316.4	318.4	322.2	324.2
70°	269.8	269.8	267.9	267.9	267.9	271.8	273.7	269.8	271.8	273.7	277.6
72.5°	229.1	225.2	225.2	223.2	227.1	227.1	229.1	227.1	229.1	229.1	232.9
75°	188.3	184.4	184.4	184.4	188.3	186.4	188.3	186.4	188.3	188.3	190.2
77.5°	151.4	149.5	147.5	147.5	151.4	151.4	151.4	149.5	151.4	153.4	155.3
80°	118.4	116.5	114.5	114.5	118.4	118.4	118.4	120.4	118.4	120.4	122.3
82.5°	87.4	85.4	83.5	87.4	87.4	87.4	87.4	89.3	87.4	89.3	91.2
85°	58.2	56.3	54.4	58.2	58.2	58.2	58.2	60.2	58.2	60.2	62.1
87.5°	31.1	29.1	29.1	31.1	31.1	31.1	33.0	33.0	33.0	34.9	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4583.2	4589.0	4587.0	4575.4	4563.8	4550.2	4540.5	4542.4	4561.8	4567.6	4550.2
5°	4391.0	4427.9	4427.9	4453.1	4439.5	4427.9	4435.6	4478.3	4499.7	4532.7	4544.3
7.5°	4193.0	4210.5	4208.5	4233.8	4229.9	4229.9	4235.7	4292.0	4319.2	4346.3	4354.1
10°	4082.3	4099.8	4097.9	4099.8	4094.0	4080.4	4080.4	4105.6	4128.9	4142.5	4146.4
12.5°	4002.7	4012.5	4010.5	4010.5	4006.6	3995.0	3993.0	4014.4	4039.6	4057.1	4059.0
15°	3884.3	3911.5	3917.3	3942.6	3936.7	3921.2	3925.1	3942.6	3958.1	3973.6	3967.8
17.5°	3707.7	3721.3	3723.2	3732.9	3729.0	3729.0	3752.3	3816.4	3859.1	3896.0	3899.9
20°	3606.7	3616.5	3612.6	3633.9	3624.2	3622.3	3628.1	3655.3	3674.7	3692.2	3723.2
22.5°	3558.2	3566.0	3560.2	3562.1	3544.6	3529.1	3525.2	3546.6	3567.9	3591.2	3591.2
25°	3517.4	3523.3	3521.3	3517.4	3503.9	3482.5	3478.6	3482.5	3490.3	3492.2	3478.6
27.5°	3468.9	3472.8	3472.8	3474.7	3457.3	3437.9	3434.0	3430.1	3437.9	3435.9	3414.6
30°	3418.4	3412.6	3414.6	3416.5	3401.0	3383.5	3375.7	3373.8	3381.6	3379.6	3358.3
32.5°	3298.1	3342.7	3346.6	3350.5	3336.9	3321.4	3313.6	3307.8	3311.7	3309.7	3290.3
35°	755.1	768.7	941.5	2131.4	2894.3	3204.9	3237.9	3230.2	3232.1	3232.1	3216.6
37.5°	757.1	755.1	753.2	747.4	741.5	737.7	1275.4	2719.6	3150.6	3152.5	3138.9
40°	757.1	755.1	753.2	749.3	741.5	735.7	726.0	718.2	735.7	1619.0	2962.3
42.5°	760.9	757.1	753.2	749.3	741.5	733.8	726.0	716.3	722.1	718.2	708.5
45°	749.3	747.4	747.4	745.4	741.5	733.8	724.1	712.4	706.6	712.4	702.7
47.5°	712.4	714.4	720.2	722.1	722.1	724.1	718.2	710.5	700.8	706.6	694.9
50°	661.9	665.8	667.8	677.5	681.4	689.1	691.1	691.1	689.1	696.9	689.1
52.5°	607.6	611.5	621.2	625.1	628.9	640.6	644.5	650.3	654.2	665.8	673.6
55°	555.2	557.1	561.0	568.8	574.6	584.3	590.1	595.9	605.7	611.5	634.8
57.5°	506.7	508.6	516.4	518.3	522.2	529.9	535.8	543.5	551.3	555.2	582.4
60°	460.1	462.0	467.8	469.8	471.7	479.5	485.3	491.1	496.9	500.8	520.2
62.5°	419.3	419.3	425.1	425.1	427.1	432.9	436.8	440.7	446.5	448.4	458.1
65°	378.5	380.5	384.4	384.4	386.3	390.2	392.1	394.1	399.9	399.9	407.7
67.5°	328.1	330.0	335.8	339.7	341.7	349.4	351.4	353.3	357.2	359.1	363.0
70°	279.5	281.5	287.3	289.2	291.2	297.0	300.9	306.7	312.5	318.4	322.2
72.5°	234.9	236.8	242.6	242.6	248.5	250.4	254.3	256.2	262.1	265.9	271.8
75°	192.2	194.1	199.9	199.9	205.8	207.7	209.6	211.6	215.5	219.4	223.2
77.5°	157.2	157.2	165.0	168.9	172.8	172.8	174.7	174.7	174.7	176.6	180.5
80°	124.2	124.2	130.1	133.9	137.8	137.8	139.8	141.7	143.6	143.6	145.6
82.5°	93.2	93.2	99.0	100.9	104.8	104.8	104.8	106.8	108.7	106.8	110.6
85°	64.1	64.1	67.9	69.9	73.8	73.8	73.8	75.7	77.6	75.7	77.6
87.5°	36.9	38.8	40.8	42.7	44.6	46.6	46.6	46.6	48.5	48.5	50.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4530.8	4507.5	4505.5	4478.3	4470.6	4472.5	4451.2	4443.4	4408.5	4400.7	4363.8
5°	4548.2	4559.9	4554.0	4552.1	4557.9	4554.0	4538.5	4530.8	4524.9	4509.4	4478.3
7.5°	4356.0	4363.8	4369.6	4394.9	4416.2	4453.1	4491.9	4517.2	4536.6	4540.5	4515.2
10°	4160.0	4196.9	4222.1	4260.9	4292.0	4313.3	4336.6	4358.0	4414.3	4470.6	4503.6
12.5°	4059.0	4068.7	4066.8	4088.2	4109.5	4165.8	4220.2	4251.2	4293.9	4319.2	4379.3
15°	3973.6	3975.6	3981.4	3996.9	4008.6	4028.0	4053.2	4099.8	4185.2	4224.0	4257.0
17.5°	3896.0	3896.0	3899.9	3913.5	3929.0	3946.5	3962.0	3981.4	4024.1	4088.2	4169.7
20°	3771.7	3826.1	3831.9	3830.0	3837.7	3870.7	3874.6	3909.6	3930.9	3956.2	4035.7
22.5°	3587.3	3620.3	3666.9	3738.7	3765.9	3781.5	3793.1	3808.6	3841.6	3870.7	3903.7
25°	3486.4	3507.7	3521.3	3542.7	3599.0	3690.2	3707.7	3725.2	3746.5	3767.9	3808.6
27.5°	3397.1	3395.2	3404.9	3424.3	3439.8	3488.3	3573.7	3641.7	3645.6	3676.6	3711.6
30°	3333.0	3321.4	3307.8	3303.9	3325.3	3350.5	3375.7	3482.5	3556.3	3571.8	3608.7
32.5°	3272.9	3253.4	3234.0	3218.5	3204.9	3226.3	3241.8	3288.4	3383.5	3472.8	3492.2
35°	3199.1	3179.7	3156.4	3138.9	3117.6	3115.6	3113.7	3158.3	3189.4	3296.2	3389.3
37.5°	3123.4	3102.0	3082.6	3063.2	3041.9	3026.3	3016.6	3028.3	3057.4	3104.0	3259.3
40°	3043.8	3018.6	2999.1	2983.6	2954.5	2942.9	2923.4	2915.7	2917.6	2958.4	3039.9
42.5°	1818.9	2900.1	2909.9	2892.4	2867.1	2851.6	2830.3	2820.6	2801.1	2820.6	2867.1
45°	700.8	708.5	2121.7	2803.1	2772.0	2752.6	2733.2	2723.5	2702.1	2686.6	2729.3
47.5°	687.2	694.9	679.4	962.8	2645.9	2651.7	2628.4	2618.7	2597.3	2585.7	2574.0
50°	677.5	683.3	671.7	675.5	661.9	2424.6	2521.6	2510.0	2486.7	2473.1	2449.8
52.5°	667.8	667.8	660.0	650.3	646.4	648.4	2040.2	2399.3	2372.1	2358.6	2327.5
55°	636.7	640.6	648.4	632.8	628.9	627.0	621.2	1943.1	2246.0	2230.4	2203.3
57.5°	590.1	597.9	619.2	615.4	615.4	599.8	595.9	595.9	1803.4	2100.4	2073.2
60°	535.8	543.5	566.8	574.6	580.4	576.5	572.7	570.7	562.9	1900.4	1935.4
62.5°	479.5	487.2	495.0	520.2	528.0	537.7	549.4	543.5	535.8	535.8	1789.8
65°	419.3	430.9	434.8	458.1	467.8	485.3	495.0	508.6	504.7	502.8	512.5
67.5°	366.9	380.5	382.4	392.1	409.6	417.4	429.0	454.2	465.9	469.8	473.7
70°	322.2	330.0	335.8	339.7	351.4	353.3	374.7	392.1	409.6	429.0	434.8
72.5°	277.6	283.4	295.1	291.2	295.1	302.8	314.5	326.1	343.6	370.8	388.2
75°	227.1	231.0	238.8	242.6	250.4	256.2	264.0	273.7	289.2	302.8	326.1
77.5°	182.5	184.4	190.2	192.2	199.9	205.8	219.4	225.2	234.9	244.6	258.2
80°	147.5	147.5	149.5	149.5	155.3	161.1	170.8	176.6	188.3	196.1	196.1
82.5°	112.6	112.6	118.4	118.4	122.3	122.3	128.1	128.1	133.9	137.8	141.7
85°	79.6	81.5	85.4	83.5	87.4	85.4	89.3	93.2	95.1	93.2	91.2
87.5°	52.4	52.4	56.3	54.4	56.3	56.3	60.2	60.2	62.1	62.1	60.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4350.2	4321.1	4303.6	4282.3	4276.5	4270.6	4278.4	4278.4	4266.8	4257.0	4239.6
5°	4451.2	4420.1	4387.1	4352.2	4319.2	4284.2	4270.6	4268.7	4247.3	4235.7	4229.9
7.5°	4503.6	4488.0	4451.2	4402.6	4352.2	4290.0	4262.9	4247.3	4226.0	4222.1	4222.1
10°	4509.4	4491.9	4472.5	4437.6	4379.3	4297.8	4245.4	4214.3	4194.9	4208.5	4233.8
12.5°	4453.1	4486.1	4468.6	4445.3	4398.8	4299.8	4224.0	4177.5	4171.6	4206.6	4272.6
15°	4309.5	4406.5	4455.0	4431.8	4394.9	4295.9	4189.1	4134.8	4134.8	4206.6	4292.0
17.5°	4200.8	4276.5	4394.9	4414.3	4371.6	4288.1	4156.1	4092.0	4109.5	4214.3	4305.6
20°	4111.5	4158.0	4272.6	4381.3	4340.5	4270.6	4107.6	4041.6	4076.5	4202.7	4325.0
22.5°	3971.7	4064.9	4134.8	4295.9	4309.5	4237.6	4059.0	3979.5	4049.3	4202.7	4315.3
25°	3835.8	3948.4	4022.2	4179.4	4262.9	4196.9	4014.4	3913.5	4020.2	4196.9	4307.5
27.5°	3740.7	3793.1	3927.0	4039.6	4193.0	4142.5	3954.2	3841.6	3983.3	4165.8	4262.9
30°	3639.7	3674.7	3806.7	3913.5	4099.8	4080.4	3892.1	3762.0	3936.7	4136.7	4146.4
32.5°	3529.1	3567.9	3635.9	3791.2	3969.7	4022.2	3822.2	3682.5	3886.3	4092.0	4010.5
35°	3416.5	3445.6	3500.0	3666.9	3818.3	3934.8	3736.8	3591.2	3851.3	4024.1	3880.5
37.5°	3303.9	3335.0	3381.6	3521.3	3659.2	3853.3	3663.0	3500.0	3787.3	3903.7	3744.6
40°	3197.2	3214.6	3263.2	3350.5	3527.2	3769.8	3579.6	3404.9	3721.3	3750.4	3560.2
42.5°	3001.1	3088.4	3133.1	3203.0	3377.7	3655.3	3482.5	3303.9	3647.5	3597.0	3375.7
45°	2789.5	2979.7	2999.1	3069.0	3245.7	3533.0	3391.3	3204.9	3577.6	3465.0	3201.0
47.5°	2616.7	2754.6	2867.1	2925.4	3088.4	3389.3	3305.9	3121.4	3472.8	3298.1	3030.2
50°	2463.4	2537.1	2741.0	2783.7	2900.1	3216.6	3204.9	3024.4	3327.2	3088.4	2863.3
52.5°	2313.9	2366.3	2550.7	2642.0	2737.1	3030.2	3084.6	2929.3	3168.0	2878.8	2694.4
55°	2183.8	2201.3	2302.3	2494.4	2579.9	2841.9	2952.6	2818.6	2966.1	2678.9	2531.3
57.5°	2049.9	2034.4	2108.1	2354.7	2416.8	2649.7	2812.8	2706.0	2803.1	2475.0	2362.4
60°	1910.1	1888.8	1919.8	2082.9	2244.0	2459.5	2647.8	2581.8	2605.1	2273.1	2174.1
62.5°	1764.5	1743.2	1733.5	1836.4	2075.1	2263.4	2480.9	2444.0	2362.4	2088.7	1941.2
65°	1613.1	1591.8	1576.3	1617.0	1888.8	2009.1	2294.5	2284.8	2096.5	1894.6	1634.5
67.5°	491.1	1448.1	1415.1	1413.2	1591.8	1778.1	2092.6	2077.1	1828.6	1686.9	1407.4
70°	442.6	1174.4	1248.2	1230.7	1308.4	1543.3	1861.6	1850.0	1568.5	1353.0	1244.3
72.5°	405.7	415.4	1102.6	1083.2	1100.7	1312.2	1620.9	1589.8	1329.7	1067.7	1075.4
75°	347.5	364.9	380.5	914.3	891.0	1087.1	1358.8	1310.3	1096.8	881.3	898.8
77.5°	283.4	304.8	316.4	665.8	720.2	774.5	1085.1	1021.1	755.1	704.7	335.8
80°	211.6	229.1	248.5	265.9	547.4	541.6	805.6	741.5	526.1	438.7	262.1
82.5°	155.3	161.1	172.8	192.2	217.4	363.0	518.3	456.2	364.9	199.9	180.5
85°	97.1	104.8	110.6	116.5	132.0	217.4	256.2	203.8	153.4	122.3	114.5
87.5°	62.1	62.1	60.2	62.1	64.1	77.6	87.4	83.5	66.0	62.1	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4220.2	4193.0	4193.0	4185.2	4191.0	4191.0	4189.1	4191.0	4204.6	4212.4	4226.0
5°	4218.2	4210.5	4227.9	4249.3	4274.5	4305.6	4313.3	4340.5	4365.8	4398.8	4433.7
7.5°	4243.5	4270.6	4303.6	4338.6	4389.0	4425.9	4458.9	4491.9	4515.2	4546.3	4565.7
10°	4280.3	4334.7	4391.0	4435.6	4490.0	4521.0	4542.4	4546.3	4513.3	4460.9	4418.2
12.5°	4332.8	4396.8	4449.2	4491.9	4517.2	4505.5	4443.4	4379.3	4342.5	4288.1	4212.4
15°	4377.4	4435.6	4490.0	4472.5	4404.6	4340.5	4292.0	4216.3	4142.5	4092.0	4059.0
17.5°	4396.8	4453.1	4433.7	4342.5	4278.4	4204.6	4105.6	4047.4	3998.9	3960.0	3940.6
20°	4408.5	4398.8	4293.9	4227.9	4103.7	4035.7	3971.7	3917.3	3880.5	3861.0	3857.2
22.5°	4377.4	4259.0	4169.7	4051.3	3960.0	3903.7	3853.3	3808.6	3783.4	3767.9	3758.2
25°	4274.5	4136.7	4004.7	3911.5	3833.9	3785.3	3746.5	3709.6	3678.6	3670.8	3651.4
27.5°	4130.9	4018.3	3843.6	3771.7	3703.8	3680.5	3637.8	3600.9	3573.7	3550.4	3488.3
30°	4012.5	3833.9	3707.7	3641.7	3600.9	3573.7	3525.2	3486.4	3439.8	3354.4	3319.4
32.5°	3866.9	3690.2	3569.9	3533.0	3482.5	3459.2	3404.9	3319.4	3247.6	3212.7	3210.7
35°	3678.6	3533.0	3445.6	3412.6	3371.9	3333.0	3220.4	3142.8	3107.9	3111.7	3140.9
37.5°	3521.3	3391.3	3335.0	3288.4	3241.8	3142.8	3047.7	3010.8	3020.5	3039.9	3053.5
40°	3362.2	3263.2	3199.1	3162.2	3057.4	2960.3	2909.9	2923.4	2940.9	2954.5	2972.0
42.5°	3206.9	3137.0	3072.9	3001.1	2857.4	2805.0	2816.7	2834.1	2849.7	2869.1	2886.6
45°	3059.3	2997.2	2923.4	2760.4	2688.6	2702.1	2719.6	2733.2	2756.5	2770.1	2787.6
47.5°	2919.6	2853.6	2723.5	2579.9	2572.1	2599.3	2614.8	2632.3	2649.7	2614.8	1442.3
50°	2762.3	2694.4	2496.4	2442.0	2459.5	2484.7	2504.1	2521.6	2246.0	893.0	687.2
52.5°	2607.0	2434.3	2308.1	2323.6	2341.1	2370.2	2383.8	1770.4	704.7	671.7	673.6
55°	2434.3	2213.0	2176.1	2195.5	2211.0	2240.1	1485.0	650.3	646.4	644.5	660.0
57.5°	2162.5	2028.6	2044.1	2063.5	2079.0	1467.5	632.8	628.9	630.9	632.8	634.8
60°	1919.8	1890.7	1908.2	1925.7	1362.7	611.5	599.8	601.8	609.5	603.7	588.2
62.5°	1727.7	1751.0	1768.4	1549.1	580.4	574.6	580.4	574.6	561.0	551.3	531.9
65°	1580.1	1603.4	1617.0	545.5	543.5	551.3	545.5	526.1	504.7	477.5	471.7
67.5°	1424.8	1448.1	518.3	504.7	512.5	502.8	479.5	456.2	440.7	417.4	407.7
70°	1263.7	541.6	469.8	467.8	454.2	438.7	413.5	390.2	370.8	361.1	351.4
72.5°	912.4	429.0	423.2	407.7	384.4	363.0	341.7	328.1	318.4	312.5	306.7
75°	380.5	372.7	355.2	328.1	304.8	295.1	279.5	269.8	265.9	254.3	250.4
77.5°	318.4	302.8	277.6	258.2	244.6	238.8	227.1	215.5	209.6	207.7	199.9
80°	244.6	223.2	211.6	201.9	198.0	184.4	170.8	165.0	161.1	159.2	153.4
82.5°	166.9	159.2	151.4	137.8	137.8	132.0	126.2	122.3	118.4	118.4	114.5
85°	108.7	102.9	100.9	95.1	95.1	91.2	89.3	87.4	85.4	83.5	81.5
87.5°	62.1	62.1	64.1	62.1	62.1	60.2	58.2	56.3	54.4	54.4	50.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4243.5	4262.9	4266.8	4332.8	4369.6	4367.7	4356.0	4391.0	4369.6	4358.0	4369.6
5°	4468.6	4491.9	4511.3	4583.2	4608.4	4620.0	4618.1	4637.5	4622.0	4608.4	4608.4
7.5°	4579.3	4587.0	4594.8	4577.3	4565.7	4546.3	4517.2	4474.5	4453.1	4429.8	4400.7
10°	4396.8	4371.6	4381.3	4346.3	4317.2	4295.9	4268.7	4233.8	4204.6	4183.3	4150.3
12.5°	4173.6	4171.6	4175.5	4181.3	4152.2	4134.8	4113.4	4088.2	4066.8	4043.5	4016.3
15°	4037.7	4039.6	4055.2	4049.3	4039.6	4029.9	4006.6	3998.9	3979.5	3954.2	3938.7
17.5°	3940.6	3950.3	3965.9	3958.1	3942.6	3932.9	3915.4	3897.9	3880.5	3861.0	3837.7
20°	3855.2	3864.9	3874.6	3864.9	3835.8	3822.2	3798.9	3744.6	3705.7	3666.9	3632.0
22.5°	3762.0	3767.9	3760.1	3729.0	3655.3	3620.3	3593.2	3577.6	3544.6	3523.3	3501.9
25°	3645.6	3612.6	3562.1	3527.2	3498.0	3482.5	3470.9	3468.9	3465.0	3461.2	3451.4
27.5°	3455.3	3443.7	3416.5	3402.9	3404.9	3410.7	3412.6	3418.4	3412.6	3404.9	3397.1
30°	3313.6	3319.4	3321.4	3325.3	3335.0	3340.8	3342.7	3350.5	3346.6	3340.8	3336.9
32.5°	3224.3	3237.9	3245.7	3257.3	3263.2	3272.9	3272.9	3284.5	3272.9	3270.9	3267.0
35°	3150.6	3162.2	3166.1	3183.6	3189.4	3199.1	3199.1	3208.8	3199.1	3100.1	2447.8
37.5°	3076.8	3088.4	3096.2	3111.7	3113.7	3119.5	2878.8	2106.2	1358.8	1052.1	803.7
40°	2989.4	3003.0	3010.8	3016.6	2119.8	1345.2	926.0	753.2	753.2	759.0	764.8
42.5°	2896.3	2906.0	2024.7	1178.3	733.8	731.8	737.7	743.5	749.3	757.1	764.8
45°	2277.0	1149.2	729.9	712.4	718.2	726.0	733.8	741.5	751.2	759.0	762.9
47.5°	747.4	700.8	710.5	702.7	712.4	722.1	729.9	737.7	739.6	741.5	739.6
50°	691.1	691.1	696.9	696.9	704.7	708.5	708.5	708.5	700.8	698.8	693.0
52.5°	667.8	683.3	675.5	679.4	675.5	669.7	663.9	658.1	646.4	642.5	634.8
55°	656.1	661.9	642.5	636.7	628.9	613.4	605.7	597.9	588.2	584.3	574.6
57.5°	628.9	615.4	594.0	584.3	570.7	555.2	547.4	541.6	531.9	528.0	522.2
60°	578.5	551.3	537.7	526.1	510.5	496.9	491.1	487.2	479.5	477.5	471.7
62.5°	516.4	493.1	481.4	465.9	454.2	446.5	440.7	438.7	430.9	430.9	427.1
65°	448.4	436.8	427.1	411.5	405.7	397.9	396.0	394.1	390.2	388.2	384.4
67.5°	394.1	386.3	372.7	364.9	361.1	355.2	351.4	347.5	339.7	335.8	330.0
70°	345.5	339.7	326.1	320.3	312.5	302.8	297.0	293.1	287.3	283.4	277.6
72.5°	298.9	281.5	271.8	265.9	260.1	250.4	248.5	244.6	238.8	236.8	231.0
75°	240.7	227.1	221.3	217.4	211.6	205.8	205.8	205.8	199.9	198.0	196.1
77.5°	192.2	184.4	180.5	176.6	174.7	170.8	165.0	163.1	157.2	157.2	155.3
80°	147.5	143.6	139.8	137.8	135.9	132.0	128.1	126.2	120.4	120.4	118.4
82.5°	108.7	106.8	104.8	102.9	100.9	99.0	93.2	91.2	87.4	87.4	85.4
85°	77.6	75.7	71.8	69.9	69.9	67.9	62.1	60.2	56.3	56.3	56.3
87.5°	48.5	46.6	44.6	42.7	40.8	38.8	34.9	33.0	33.0	29.1	27.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4346.3	4379.3	4375.5	4398.8	4404.6	4416.2	4420.1	4422.0	4392.9	4416.2	4418.2
5°	4602.6	4608.4	4612.3	4622.0	4631.7	4633.6	4623.9	4612.3	4616.2	4608.4	4589.0
7.5°	4396.8	4367.7	4361.9	4354.1	4350.2	4346.3	4328.9	4344.4	4326.9	4319.2	4292.0
10°	4144.5	4117.3	4115.3	4115.3	4121.2	4119.2	4115.3	4107.6	4123.1	4113.4	4107.6
12.5°	4012.5	4002.7	4008.6	4004.7	4020.2	4024.1	4020.2	4020.2	4016.3	4008.6	4012.5
15°	3932.9	3925.1	3930.9	3925.1	3936.7	3938.7	3929.0	3934.8	3925.1	3915.4	3911.5
17.5°	3828.0	3810.6	3797.0	3777.6	3779.5	3775.6	3764.0	3764.0	3754.3	3729.0	3731.0
20°	3626.2	3608.7	3600.9	3600.9	3610.6	3614.5	3612.6	3616.5	3606.7	3602.9	3587.3
22.5°	3500.0	3498.0	3501.9	3511.6	3527.2	3548.5	3550.4	3550.4	3550.4	3548.5	3529.1
25°	3455.3	3455.3	3459.2	3472.8	3484.4	3500.0	3503.9	3507.7	3503.9	3503.9	3486.4
27.5°	3404.9	3401.0	3408.7	3422.3	3435.9	3447.6	3457.3	3459.2	3453.4	3453.4	3459.2
30°	3342.7	3340.8	3350.5	3364.1	3375.7	3387.4	3397.1	3404.9	3397.1	3397.1	3391.3
32.5°	3278.7	3278.7	3282.6	3201.0	2968.1	2673.0	2678.9	2508.0	2389.6	2240.1	2438.1
35°	2046.0	1488.9	1279.2	1083.2	945.4	856.1	854.1	825.0	811.4	801.7	799.8
37.5°	772.6	776.5	784.2	788.1	793.9	797.8	799.8	799.8	799.8	799.8	797.8
40°	770.7	778.4	784.2	790.1	795.9	799.8	799.8	801.7	803.7	803.7	803.7
42.5°	772.6	780.4	788.1	793.9	797.8	799.8	801.7	803.7	803.7	803.7	803.7
45°	770.7	774.5	774.5	776.5	776.5	776.5	778.4	778.4	776.5	774.5	778.4
47.5°	741.5	741.5	735.7	733.8	731.8	727.9	729.9	727.9	726.0	724.1	727.9
50°	691.1	683.3	679.4	675.5	673.6	669.7	671.7	669.7	667.8	663.9	669.7
52.5°	630.9	628.9	621.2	617.3	615.4	617.3	613.4	611.5	609.5	607.6	609.5
55°	572.7	564.9	562.9	559.1	557.1	559.1	557.1	555.2	553.2	551.3	553.2
57.5°	520.2	514.4	512.5	508.6	508.6	508.6	508.6	506.7	504.7	502.8	504.7
60°	469.8	465.9	463.9	463.9	462.0	462.0	462.0	460.1	458.1	458.1	460.1
62.5°	427.1	427.1	421.2	419.3	419.3	421.2	419.3	417.4	415.4	413.5	417.4
65°	382.4	374.7	372.7	368.8	364.9	366.9	364.9	363.0	361.1	359.1	363.0
67.5°	328.1	326.1	318.4	314.5	312.5	314.5	312.5	310.6	308.7	306.7	310.6
70°	275.7	275.7	267.9	265.9	264.0	264.0	262.1	262.1	260.1	258.2	262.1
72.5°	229.1	229.1	227.1	223.2	221.3	219.4	217.4	215.5	215.5	217.4	217.4
75°	190.2	186.4	178.6	180.5	178.6	176.6	176.6	174.7	172.8	176.6	174.7
77.5°	149.5	147.5	141.7	143.6	141.7	139.8	139.8	137.8	135.9	137.8	137.8
80°	112.6	112.6	110.6	108.7	108.7	106.8	104.8	104.8	102.9	104.8	104.8
82.5°	81.5	81.5	79.6	77.6	75.7	75.7	73.8	73.8	73.8	73.8	73.8
85°	52.4	50.5	50.5	46.6	46.6	46.6	44.6	44.6	44.6	44.6	44.6
87.5°	25.2	25.2	23.3	23.3	21.4	19.4	19.4	17.5	17.5	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4383.2	4408.5	4387.1	4396.8	4398.8	4431.8	4429.8	4437.6	4424.0	4408.5	4387.1
5°	4606.5	4594.8	4579.3	4616.2	4596.8	4620.0	4627.8	4643.3	4643.3	4641.4	4623.9
7.5°	4321.1	4295.9	4315.3	4328.9	4334.7	4319.2	4350.2	4385.2	4414.3	4431.8	4433.7
10°	4097.9	4105.6	4103.7	4109.5	4123.1	4121.2	4140.6	4160.0	4167.8	4179.4	4183.3
12.5°	3993.0	3991.1	3995.0	4008.6	4016.3	4014.4	4033.8	4045.5	4049.3	4051.3	4049.3
15°	3909.6	3896.0	3905.7	3907.6	3913.5	3913.5	3936.7	3954.2	3962.0	3965.9	3962.0
17.5°	3752.3	3719.3	3750.4	3750.4	3771.7	3767.9	3804.7	3833.9	3849.4	3861.0	3861.0
20°	3597.0	3581.5	3593.2	3589.3	3604.8	3602.9	3626.2	3645.6	3659.2	3668.9	3680.5
22.5°	3534.9	3538.8	3521.3	3523.3	3523.3	3521.3	3533.0	3542.7	3546.6	3552.4	3548.5
25°	3494.2	3498.0	3492.2	3482.5	3478.6	3482.5	3488.3	3500.0	3501.9	3498.0	3484.4
27.5°	3453.4	3441.7	3451.4	3434.0	3430.1	3437.9	3445.6	3447.6	3449.5	3449.5	3437.9
30°	3391.3	3381.6	3391.3	3383.5	3375.7	3383.5	3389.3	3389.3	3393.2	3395.2	3381.6
32.5°	2370.2	2389.6	2704.1	2894.3	3162.2	3298.1	3323.3	3323.3	3327.2	3327.2	3315.6
35°	807.5	809.5	875.5	949.2	1106.5	1300.6	1554.9	1686.9	2133.4	2667.2	3183.6
37.5°	797.8	795.9	793.9	792.0	790.1	788.1	784.2	782.3	793.9	941.5	1277.3
40°	801.7	799.8	795.9	793.9	792.0	788.1	786.2	782.3	778.4	774.5	770.7
42.5°	801.7	799.8	797.8	795.9	793.9	792.0	788.1	784.2	780.4	774.5	768.7
45°	774.5	774.5	776.5	776.5	778.4	778.4	778.4	776.5	776.5	774.5	766.8
47.5°	724.1	724.1	729.9	729.9	733.8	737.7	737.7	741.5	747.4	751.2	753.2
50°	665.8	665.8	671.7	673.6	677.5	683.3	689.1	691.1	696.9	704.7	712.4
52.5°	607.6	607.6	613.4	613.4	617.3	623.1	628.9	630.9	638.7	646.4	656.1
55°	553.2	553.2	557.1	559.1	561.0	564.9	570.7	570.7	578.5	584.3	594.0
57.5°	504.7	508.6	508.6	508.6	510.5	514.4	518.3	518.3	524.1	529.9	537.7
60°	458.1	462.0	462.0	462.0	463.9	465.9	469.8	469.8	473.7	477.5	485.3
62.5°	415.4	419.3	419.3	421.2	421.2	423.2	427.1	425.1	429.0	430.9	436.8
65°	361.1	364.9	366.9	368.8	370.8	374.7	380.5	378.5	384.4	388.2	394.1
67.5°	308.7	312.5	312.5	314.5	316.4	320.3	324.2	324.2	330.0	333.9	341.7
70°	260.1	264.0	264.0	265.9	267.9	271.8	275.7	273.7	279.5	283.4	289.2
72.5°	215.5	219.4	219.4	221.3	221.3	225.2	229.1	232.9	232.9	236.8	240.7
75°	174.7	176.6	178.6	178.6	180.5	182.5	186.4	190.2	192.2	194.1	198.0
77.5°	137.8	139.8	141.7	141.7	143.6	145.6	147.5	155.3	159.2	161.1	161.1
80°	104.8	106.8	106.8	106.8	108.7	110.6	114.5	114.5	122.3	122.3	124.2
82.5°	73.8	75.7	75.7	75.7	77.6	81.5	83.5	85.4	89.3	91.2	91.2
85°	44.6	46.6	46.6	46.6	48.5	50.5	54.4	56.3	58.2	58.2	60.2
87.5°	17.5	19.4	21.4	21.4	23.3	25.2	27.2	29.1	31.1	31.1	33.0
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4363.8	4377.4	4363.8	4371.6	4381.3	4363.8	4323.0	4307.5	4301.7	4278.4	4262.9
5°	4606.5	4606.5	4600.6	4616.2	4614.2	4587.0	4544.3	4524.9	4505.5	4480.3	4460.9
7.5°	4433.7	4449.2	4458.9	4519.1	4557.9	4561.8	4589.0	4594.8	4602.6	4594.8	4583.2
10°	4185.2	4179.4	4206.6	4262.9	4295.9	4313.3	4365.8	4391.0	4412.3	4455.0	4499.7
12.5°	4045.5	4053.2	4064.9	4105.6	4136.7	4128.9	4150.3	4167.8	4193.0	4235.7	4299.8
15°	3952.3	3960.0	3971.7	4002.7	4022.2	4012.5	4024.1	4035.7	4053.2	4074.6	4113.4
17.5°	3851.3	3864.9	3878.5	3911.5	3929.0	3927.0	3936.7	3940.6	3946.5	3960.0	3987.2
20°	3694.1	3736.8	3764.0	3808.6	3833.9	3830.0	3847.5	3853.3	3861.0	3874.6	3886.3
22.5°	3550.4	3562.1	3575.7	3624.2	3666.9	3719.3	3731.0	3746.5	3765.9	3779.5	3791.2
25°	3468.9	3461.2	3467.0	3500.0	3523.3	3527.2	3544.6	3595.1	3647.5	3670.8	3698.0
27.5°	3420.4	3412.6	3410.7	3426.2	3430.1	3420.4	3416.5	3432.0	3470.9	3509.7	3591.2
30°	3368.0	3358.3	3350.5	3364.1	3369.9	3356.3	3331.1	3317.5	3340.8	3350.5	3383.5
32.5°	3305.9	3296.2	3292.3	3300.0	3303.9	3292.3	3265.1	3249.6	3245.7	3237.9	3245.7
35°	3236.0	3226.3	3220.4	3222.4	3230.2	3220.4	3197.2	3177.7	3168.0	3146.7	3131.2
37.5°	1667.5	2362.4	3067.1	3140.9	3148.6	3146.7	3123.4	3102.0	3092.3	3067.1	3059.3
40°	762.9	852.2	1279.2	1671.4	2411.0	3063.2	3041.9	3020.5	3003.0	2995.3	2966.1
42.5°	760.9	762.9	764.8	755.1	935.7	1593.7	2352.7	2937.0	2925.4	2906.0	2884.6
45°	760.9	751.2	759.0	747.4	751.2	749.3	933.7	1506.4	2680.8	2801.1	2791.4
47.5°	753.2	747.4	755.1	745.4	733.8	739.6	731.8	741.5	1157.0	1962.6	2688.6
50°	718.2	722.1	735.7	733.8	724.1	731.8	718.2	729.9	720.2	790.1	1521.9
52.5°	665.8	673.6	687.2	698.8	702.7	712.4	708.5	712.4	704.7	706.6	708.5
55°	603.7	613.4	625.1	642.5	650.3	665.8	677.5	683.3	693.0	691.1	675.5
57.5°	545.5	555.2	564.9	582.4	599.8	607.6	628.9	640.6	665.8	660.0	656.1
60°	491.1	498.9	508.6	512.5	533.8	547.4	566.8	578.5	611.5	619.2	630.9
62.5°	442.6	446.5	454.2	460.1	473.7	487.2	496.9	516.4	533.8	559.1	576.5
65°	397.9	401.8	407.7	411.5	413.5	432.9	438.7	460.1	465.9	493.1	508.6
67.5°	347.5	355.2	363.0	366.9	370.8	382.4	386.3	396.0	409.6	421.2	440.7
70°	295.1	300.9	308.7	314.5	322.2	330.0	341.7	347.5	357.2	364.9	380.5
72.5°	246.5	252.4	256.2	262.1	267.9	273.7	283.4	297.0	304.8	318.4	322.2
75°	199.9	205.8	209.6	213.5	219.4	223.2	227.1	240.7	248.5	260.1	271.8
77.5°	165.0	165.0	168.9	180.5	178.6	178.6	182.5	190.2	196.1	203.8	215.5
80°	128.1	130.1	132.0	141.7	143.6	145.6	143.6	149.5	155.3	157.2	165.0
82.5°	95.1	97.1	97.1	102.9	108.7	108.7	108.7	110.6	116.5	118.4	122.3
85°	64.1	66.0	67.9	69.9	73.8	75.7	77.6	77.6	81.5	83.5	85.4
87.5°	34.9	38.8	40.8	42.7	44.6	46.6	48.5	50.5	52.4	54.4	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-86SL-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°	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7	4235.7
2.5°	4257.0	4247.3	4241.5	4226.0	4222.1	4196.9	4200.8	4196.9	4196.9	4202.7	4222.1
5°	4439.5	4392.9	4381.3	4348.3	4321.1	4274.5	4245.4	4229.9	4206.6	4196.9	4210.5
7.5°	4563.8	4528.8	4499.7	4470.6	4431.8	4377.4	4336.6	4290.0	4251.2	4214.3	4204.6
10°	4542.4	4581.2	4581.2	4563.8	4526.9	4472.5	4424.0	4365.8	4297.8	4239.6	4204.6
12.5°	4361.9	4429.8	4484.2	4524.9	4561.8	4524.9	4476.4	4429.8	4354.1	4268.7	4204.6
15°	4163.9	4233.8	4301.7	4387.1	4476.4	4513.3	4511.3	4457.0	4389.0	4299.8	4210.5
17.5°	4024.1	4072.6	4109.5	4202.7	4311.4	4406.5	4470.6	4474.5	4408.5	4328.9	4212.4
20°	3919.3	3954.2	3985.3	4037.7	4132.8	4249.3	4367.7	4433.7	4422.0	4334.7	4218.2
22.5°	3824.2	3849.4	3874.6	3913.5	3989.2	4064.9	4202.7	4338.6	4396.8	4325.0	4212.4
25°	3729.0	3756.2	3775.6	3802.8	3863.0	3925.1	4022.2	4191.0	4321.1	4317.2	4200.8
27.5°	3616.5	3653.3	3676.6	3713.5	3754.3	3800.9	3866.9	4026.0	4212.4	4278.4	4169.7
30°	3480.6	3534.9	3569.9	3610.6	3645.6	3686.3	3738.7	3835.8	4066.8	4202.7	4136.7
32.5°	3284.5	3381.6	3459.2	3498.0	3536.9	3571.8	3618.4	3699.9	3888.2	4099.8	4099.8
35°	3144.7	3189.4	3259.3	3371.9	3420.4	3455.3	3498.0	3562.1	3682.5	3977.5	4039.6
37.5°	3036.0	3053.5	3088.4	3199.1	3290.3	3346.6	3389.3	3430.1	3548.5	3810.6	3962.0
40°	2954.5	2948.7	2944.8	2997.2	3127.3	3216.6	3265.1	3305.9	3397.1	3610.6	3859.1
42.5°	2859.4	2853.6	2834.1	2847.7	2911.8	3061.3	3135.0	3179.7	3255.4	3401.0	3746.5
45°	2760.4	2750.7	2742.9	2729.3	2752.6	2836.1	2987.5	3053.5	3096.2	3226.3	3604.8
47.5°	2659.4	2645.9	2636.1	2624.5	2610.9	2649.7	2793.4	2911.8	2985.6	3067.1	3434.0
50°	2515.8	2533.3	2521.6	2508.0	2496.4	2488.6	2548.8	2742.9	2834.1	2900.1	3226.3
52.5°	1186.1	2306.1	2403.2	2389.6	2374.1	2360.5	2374.1	2521.6	2686.6	2739.0	2975.9
55°	675.5	1026.9	2137.3	2259.6	2246.0	2226.6	2214.9	2265.4	2511.9	2581.8	2746.8
57.5°	650.3	652.2	943.4	2036.3	2112.0	2094.6	2081.0	2092.6	2302.3	2420.7	2546.9
60°	628.9	628.9	628.9	900.7	1947.0	1952.8	1935.4	1916.0	2007.2	2240.1	2345.0
62.5°	582.4	594.0	599.8	599.8	889.1	1803.4	1785.9	1780.1	1784.0	2022.7	2143.1
65°	522.2	549.4	561.0	568.8	568.8	933.7	1632.5	1622.8	1609.3	1700.5	1939.3
67.5°	456.2	483.4	508.6	524.1	526.1	543.5	974.5	1461.7	1442.3	1444.3	1721.8
70°	388.2	411.5	438.7	462.0	483.4	493.1	508.6	1213.2	1277.3	1250.1	1475.3
72.5°	335.8	345.5	364.9	388.2	413.5	436.8	450.4	483.4	1108.4	1079.3	1122.0
75°	279.5	287.3	300.9	316.4	335.8	363.0	386.3	409.6	588.2	904.6	898.8
77.5°	217.4	231.0	246.5	256.2	265.9	285.4	316.4	339.7	363.0	611.5	720.2
80°	166.9	176.6	184.4	194.1	205.8	219.4	231.0	258.2	285.4	306.7	551.3
82.5°	124.2	130.1	135.9	139.8	143.6	151.4	172.8	182.5	199.9	219.4	260.1
85°	87.4	91.2	95.1	97.1	99.0	100.9	108.7	110.6	128.1	132.0	157.2
87.5°	56.3	58.2	62.1	64.1	64.1	66.0	67.9	67.9	67.9	64.1	77.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	4235.7	4235.7
2.5°	4237.6	4268.7
5°	4231.8	4272.6
7.5°	4216.3	4255.1
10°	4193.0	4239.6
12.5°	4167.8	4212.4
15°	4146.4	4179.4
17.5°	4123.1	4142.5
20°	4092.0	4107.6
22.5°	4061.0	4053.2
25°	4026.0	4008.6
27.5°	3981.4	3948.4
30°	3940.6	3882.4
32.5°	3901.8	3806.7
35°	3849.4	3729.0
37.5°	3795.0	3649.5
40°	3731.0	3558.2
42.5°	3663.0	3467.0
45°	3577.6	3379.6
47.5°	3501.9	3274.8
50°	3397.1	3162.2
52.5°	3269.0	3057.4
55°	3117.6	2929.3
57.5°	2954.5	2795.3
60°	2779.8	2642.0
62.5°	2568.2	2482.8
65°	2319.7	2300.3
67.5°	1995.6	2098.4
70°	1636.4	1867.4
72.5°	1368.5	1622.8
75°	1122.0	1349.1
77.5°	889.1	1058.0
80°	555.2	774.5
82.5°	372.7	508.6
85°	225.2	242.6
87.5°	87.4	89.3
90°	0.0	0.0

(END OF REPORT)