

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-LD5-128SL-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-LD5-128SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

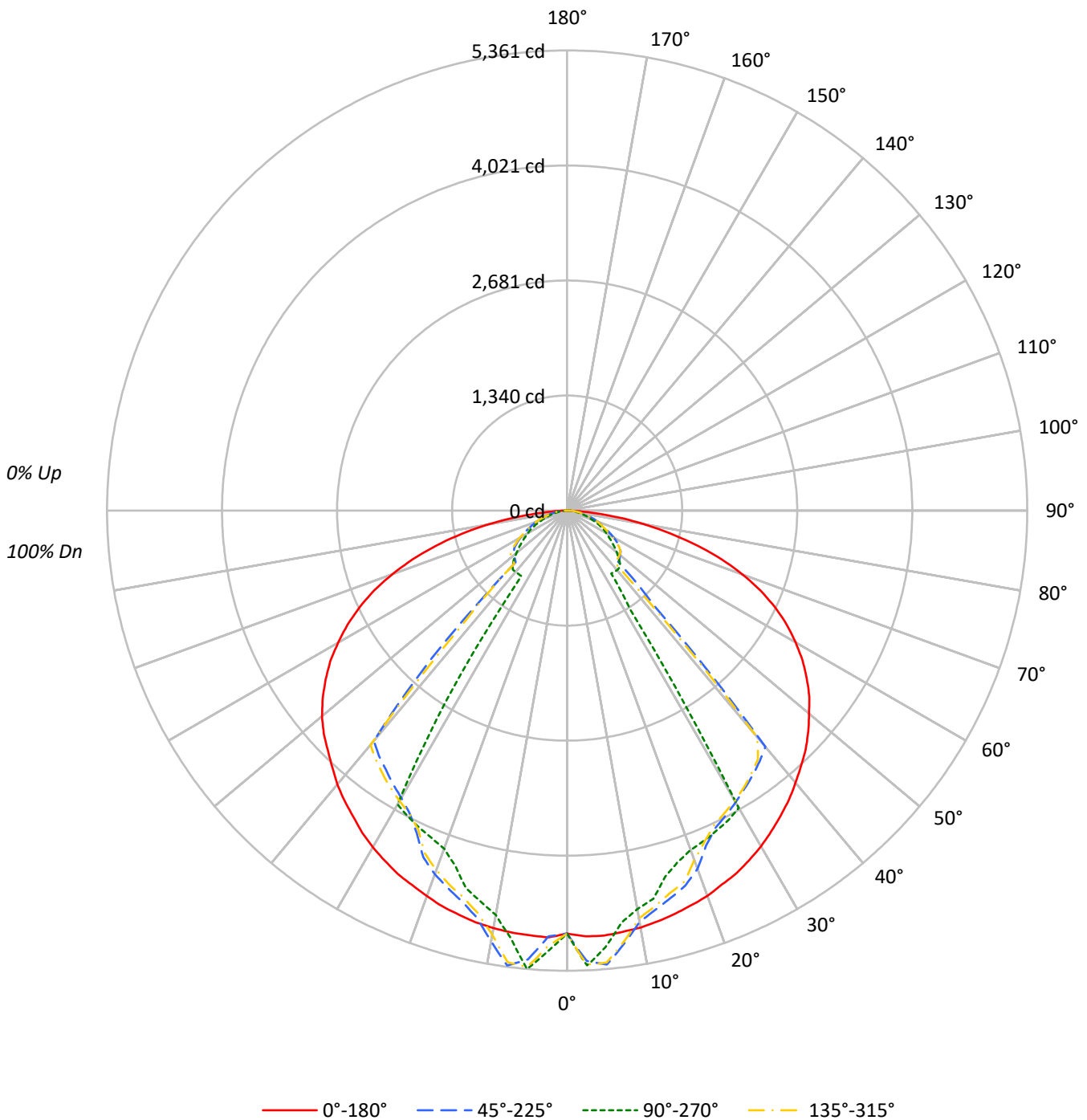
Lumens per Lamp: N/A
Luminaire Lumens: 9867.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19909	19909	19909	19909
5°	20131	20059	20122	21052
10°	20179	18135	20207	18414
15°	20252	16779	20299	17311
20°	20430	15915	20430	15855
25°	20639	15610	20669	15465
30°	20883	15335	20935	15153
35°	21165	3493	21210	3643
40°	21550	3632	21679	3750
45°	22120	3612	22195	3743
50°	22701	3266	23007	3354
55°	23481	2900	23667	2941
60°	24182	2577	24234	2610
65°	24754	2248	24692	2213
70°	24608	1812	24531	1746
75°	23150	1395	23317	1336
80°	19258	991	20030	907
85°	11104	593	11726	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.8	4.9
10°-20°	1332.9	13.5
20°-30°	1974.3	20.0
30°-40°	1989.3	20.2
40°-50°	1553.9	15.7
50°-60°	1200.3	12.2
60°-70°	805.9	8.2
70°-80°	411.1	4.2
80°-90°	114.4	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°	3792.1	38.4
0°-40°	5781.4	58.6
0°-60°	8535.6	86.5
0°-90°	9867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9867.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4927	4927	4927	4927	4927	
5°	4970	5108	4968	5361	4970	473
15°	4862	4415	4873	4555	4862	1375
25°	4663	4114	4670	4076	4663	2151
35°	4338	894	4347	933	4338	2719
45°	3932	869	3945	901	3932	3032
55°	3408	632	3435	641	3408	3043
65°	2676	424	2669	418	2676	2632
75°	1569	214	1581	206	1569	1641
85°	282	68	298	52	282	388
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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	4965.7	4983.8	4997.3	5006.4	5010.9	5010.9	5013.1	5015.4	5044.8	5058.3	5067.3
5°	4970.2	4988.3	5015.4	5051.5	5083.1	5110.2	5132.8	5164.4	5196.0	5229.9	5241.2
7.5°	4949.9	4972.5	5026.7	5092.2	5153.1	5196.0	5225.4	5245.7	5261.5	5263.8	5275.1
10°	4931.8	4972.5	5047.0	5132.8	5209.6	5261.5	5261.5	5250.2	5266.1	5205.1	5144.1
12.5°	4900.2	4945.4	5047.0	5159.9	5232.2	5252.5	5243.5	5198.3	5105.7	5031.2	4997.3
15°	4861.8	4922.8	5049.3	5175.7	5236.7	5243.5	5157.7	5042.5	4972.5	4927.3	4870.9
17.5°	4818.9	4900.2	5051.5	5178.0	5200.6	5169.0	5006.4	4934.1	4861.8	4755.7	4678.9
20°	4778.3	4857.3	5033.5	5146.4	5159.9	5017.7	4891.2	4814.4	4692.5	4599.9	4566.0
22.5°	4715.1	4807.6	5017.7	5103.5	5051.5	4886.7	4764.7	4642.8	4532.1	4505.0	4464.4
25°	4663.1	4760.2	4981.5	5051.5	4913.8	4767.0	4624.7	4482.5	4430.5	4392.1	4356.0
27.5°	4593.1	4712.8	4934.1	4956.7	4767.0	4638.3	4430.5	4367.3	4319.9	4277.0	4261.2
30°	4516.3	4663.1	4868.6	4825.7	4645.1	4455.4	4301.8	4243.1	4209.2	4164.1	4146.0
32.5°	4428.3	4588.6	4796.4	4674.4	4514.1	4277.0	4177.6	4132.5	4087.3	4053.4	3940.5
35°	4337.9	4523.1	4710.5	4529.9	4356.0	4141.5	4053.4	4012.8	3969.9	3845.7	3728.2
37.5°	4245.4	4450.9	4606.7	4374.1	4146.0	4001.5	3927.0	3881.8	3784.7	3626.6	3567.9
40°	4139.2	4362.8	4473.4	4213.7	3963.1	3859.2	3789.2	3744.0	3525.0	3455.0	3436.9
42.5°	4033.1	4277.0	4310.8	4057.9	3811.8	3707.9	3649.2	3500.2	3351.1	3315.0	3321.8
45°	3931.5	4184.4	4132.5	3836.6	3653.7	3567.9	3468.5	3263.1	3184.0	3202.1	3206.6
47.5°	3809.5	4073.7	3945.0	3615.3	3491.1	3405.3	3184.0	3059.8	3048.5	3073.4	3086.9
50°	3678.6	3949.5	3746.3	3414.4	3315.0	3213.4	2962.7	2899.5	2913.0	2937.9	2953.7
52.5°	3556.6	3809.5	3540.8	3226.9	3141.1	2908.5	2739.2	2750.5	2773.0	2802.4	2811.4
55°	3407.6	3640.2	3321.8	3037.2	2955.9	2651.1	2574.3	2601.4	2624.0	2648.8	2666.9
57.5°	3251.8	3446.0	3062.1	2825.0	2694.0	2423.0	2429.8	2447.9	2463.7	2493.0	1029.7
60°	3073.4	3224.7	2777.5	2628.5	2368.8	2242.4	2249.1	2280.8	2296.6	1282.6	709.1
62.5°	2888.2	2967.2	2520.1	2405.0	2070.7	2061.7	2093.3	2106.9	1433.9	677.5	663.9
65°	2675.9	2660.1	2267.2	2084.3	1867.5	1876.5	1910.4	1842.7	634.5	634.5	630.0
67.5°	2441.1	2346.2	2021.1	1725.2	1671.0	1691.4	1727.5	602.9	587.1	591.6	575.8
70°	2172.4	2039.1	1765.9	1461.0	1479.1	1499.4	582.6	546.5	539.7	528.4	496.8
72.5°	1887.8	1704.9	1445.2	1269.1	1280.4	803.9	510.3	492.3	469.7	447.1	413.2
75°	1569.4	1332.3	1061.3	1061.3	1077.1	458.4	444.9	415.5	390.7	361.3	341.0
77.5°	1230.7	1025.2	824.2	855.8	417.8	383.9	359.0	327.4	307.1	289.0	277.8
80°	901.0	715.8	621.0	555.5	325.2	291.3	266.5	248.4	239.4	228.1	214.5
82.5°	591.6	431.3	431.3	261.9	228.1	201.0	194.2	180.7	171.6	164.8	158.1
85°	282.3	250.7	189.7	160.3	142.3	128.7	124.2	117.4	117.4	115.2	112.9
87.5°	103.9	112.9	83.6	81.3	76.8	74.5	76.8	76.8	79.0	76.8	74.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5089.9	5108.0	5121.5	5144.1	5173.5	5198.3	5220.9	5252.5	5302.2	5315.7	5327.0
5°	5241.2	5248.0	5263.8	5281.9	5286.4	5297.7	5295.4	5309.0	5315.7	5331.5	5297.7
7.5°	5250.2	5214.1	5171.2	5132.8	5105.7	5080.9	5065.1	5089.9	5103.5	5114.8	5080.9
10°	5060.6	5017.7	4992.8	4970.2	4943.1	4904.7	4852.8	4864.1	4859.6	4859.6	4848.3
12.5°	4940.9	4879.9	4816.7	4760.2	4735.4	4733.1	4735.4	4760.2	4760.2	4758.0	4744.4
15°	4753.4	4694.7	4663.1	4649.6	4649.6	4642.8	4642.8	4669.9	4663.1	4663.1	4656.3
17.5°	4629.2	4588.6	4566.0	4550.2	4543.4	4554.7	4568.3	4579.6	4581.8	4572.8	4536.7
20°	4527.6	4489.2	4462.1	4466.7	4464.4	4471.2	4478.0	4439.6	4392.1	4328.9	4299.6
22.5°	4421.5	4392.1	4371.8	4371.8	4344.7	4301.8	4238.6	4225.0	4218.3	4188.9	4164.1
25°	4319.9	4286.0	4256.6	4166.3	4109.9	4116.6	4105.4	4082.8	4080.5	4078.3	4087.3
27.5°	4218.3	4130.2	4017.3	4003.7	3981.2	3978.9	3992.4	4003.7	4003.7	4012.8	4024.1
30°	4008.3	3906.6	3886.3	3861.5	3870.5	3902.1	3908.9	3924.7	3929.2	3945.0	3954.1
32.5°	3816.3	3771.1	3753.1	3764.4	3793.7	3820.8	3836.6	3843.4	3854.7	3868.2	3879.5
35°	3660.5	3646.9	3662.8	3687.6	3716.9	3739.5	3753.1	3766.6	3777.9	3789.2	3798.2
37.5°	3545.3	3554.4	3576.9	3608.6	3637.9	3656.0	3667.3	3683.1	3698.9	3712.4	3658.2
40°	3436.9	3459.5	3484.4	3518.2	3543.1	3561.1	3572.4	3592.7	3457.3	1564.9	858.1
42.5°	3342.1	3366.9	3385.0	3412.1	3439.2	3452.7	3353.4	1497.2	846.8	842.3	853.6
45°	3226.9	3247.2	3276.6	3296.9	3321.8	2181.4	833.3	842.3	828.7	837.8	842.3
47.5°	3109.5	3141.1	3156.9	3012.4	896.5	828.7	819.7	828.7	819.7	831.0	824.2
50°	2976.3	3014.7	2145.3	810.7	803.9	799.4	808.4	803.9	810.7	819.7	801.7
52.5°	2840.8	1759.1	785.8	781.3	785.8	781.3	797.1	785.8	788.1	779.1	756.5
55°	962.0	761.0	754.2	752.0	765.5	765.5	765.5	747.5	736.2	713.6	697.8
57.5°	736.2	736.2	733.9	736.2	731.6	727.1	706.8	691.0	675.2	643.6	634.5
60°	697.8	697.8	697.8	697.8	677.5	668.4	636.8	623.3	596.2	580.3	571.3
62.5°	666.2	661.6	641.3	634.5	612.0	587.1	569.1	555.5	528.4	519.4	512.6
65°	621.0	605.2	580.3	553.3	542.0	514.9	505.8	485.5	472.0	465.2	460.7
67.5°	546.5	523.9	503.6	485.5	465.2	456.2	444.9	429.1	420.0	415.5	411.0
70°	467.4	451.6	431.3	420.0	406.5	399.7	383.9	379.4	372.6	365.8	359.0
72.5°	390.7	381.6	372.6	356.8	352.3	347.8	332.0	322.9	313.9	304.9	300.3
75°	327.4	320.7	316.1	302.6	295.8	282.3	271.0	264.2	257.4	250.7	246.1
77.5°	268.7	264.2	250.7	241.6	237.1	225.8	221.3	223.6	219.0	210.0	205.5
80°	210.0	205.5	194.2	194.2	189.7	185.2	180.7	176.1	171.6	164.8	160.3
82.5°	160.3	155.8	151.3	146.8	142.3	140.0	137.7	133.2	128.7	124.2	121.9
85°	112.9	110.7	108.4	106.1	103.9	101.6	99.4	94.8	90.3	88.1	85.8
87.5°	76.8	74.5	72.3	70.0	67.7	65.5	63.2	61.0	56.5	54.2	51.9
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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5327.0	5338.3	5327.0	5302.2	5286.4	5279.6	5293.1	5293.1	5302.2	5313.5	5315.7
5°	5243.5	5216.4	5184.8	5153.1	5137.3	5128.3	5103.5	5108.0	5114.8	5119.3	5123.8
7.5°	5035.7	4999.6	4956.7	4916.0	4900.2	4886.7	4857.3	4857.3	4857.3	4859.6	4873.1
10°	4823.5	4807.6	4789.6	4762.5	4742.2	4735.4	4710.5	4717.3	4712.8	4719.6	4735.4
12.5°	4724.1	4706.0	4690.2	4663.1	4640.5	4631.5	4620.2	4627.0	4624.7	4636.0	4649.6
15°	4633.8	4624.7	4606.7	4586.3	4566.0	4548.0	4507.3	4493.8	4484.7	4473.4	4489.2
17.5°	4484.7	4421.5	4378.6	4347.0	4324.4	4308.6	4297.3	4297.3	4304.1	4310.8	4324.4
20°	4281.5	4263.4	4243.1	4209.2	4186.6	4177.6	4170.8	4170.8	4182.1	4191.2	4216.0
22.5°	4141.5	4139.2	4132.5	4116.6	4105.4	4105.4	4107.6	4112.1	4127.9	4141.5	4166.3
25°	4076.0	4085.0	4080.5	4071.5	4064.7	4067.0	4062.4	4067.0	4082.8	4096.3	4116.6
27.5°	4024.1	4037.6	4033.1	4019.5	4008.3	4012.8	4019.5	4015.0	4028.6	4044.4	4060.2
30°	3954.1	3956.3	3965.3	3949.5	3945.0	3951.8	3954.1	3958.6	3972.1	3983.4	3997.0
32.5°	3875.0	3893.1	3890.8	3875.0	3875.0	3881.8	3884.1	3732.8	3450.5	2971.8	2840.8
35°	3798.2	3818.6	3784.7	3190.8	2208.5	1178.8	910.0	878.4	885.2	889.7	894.2
37.5°	2809.2	1332.3	849.1	855.8	862.6	869.4	876.2	882.9	889.7	896.5	898.8
40°	844.6	842.3	849.1	858.1	864.9	869.4	878.4	885.2	892.0	898.8	901.0
42.5°	835.5	840.0	846.8	855.8	864.9	873.9	880.7	889.7	894.2	898.8	901.0
45°	831.0	840.0	849.1	855.8	862.6	867.1	871.7	873.9	871.7	871.7	876.2
47.5°	824.2	833.3	835.5	833.3	835.5	833.3	833.3	833.3	826.5	824.2	824.2
50°	799.4	799.4	794.9	785.8	783.6	781.3	776.8	774.6	765.5	763.3	763.3
52.5°	747.5	745.2	738.4	727.1	722.6	718.1	715.8	713.6	704.5	700.0	702.3
55°	686.5	682.0	675.2	661.6	659.4	654.9	652.6	650.4	641.3	645.8	639.1
57.5°	630.0	621.0	612.0	609.7	600.7	598.4	596.2	593.9	587.1	589.4	584.9
60°	562.3	560.0	555.5	546.5	546.5	544.2	544.2	539.7	535.2	532.9	532.9
62.5°	512.6	505.8	501.3	501.3	494.5	494.5	494.5	490.0	485.5	487.8	485.5
65°	458.4	456.2	453.9	449.4	449.4	447.1	447.1	442.6	435.8	438.1	433.6
67.5°	413.2	408.7	404.2	402.0	392.9	388.4	386.1	383.9	374.9	377.1	372.6
70°	356.8	350.0	345.5	341.0	334.2	329.7	329.7	325.2	318.4	320.7	316.1
72.5°	298.1	293.6	289.0	286.8	280.0	277.8	275.5	273.2	266.5	268.7	266.5
75°	248.4	248.4	246.1	243.9	237.1	230.3	225.8	223.6	219.0	221.3	216.8
77.5°	205.5	201.0	196.5	196.5	189.7	185.2	180.7	180.7	180.7	178.4	176.1
80°	160.3	155.8	155.8	153.6	149.0	144.5	142.3	142.3	140.0	140.0	137.7
82.5°	121.9	117.4	115.2	115.2	110.7	108.4	106.1	103.9	103.9	103.9	101.6
85°	85.8	81.3	79.0	79.0	74.5	72.3	72.3	70.0	70.0	67.7	67.7
87.5°	51.9	49.7	47.4	47.4	42.9	40.6	40.6	40.6	38.4	38.4	36.1
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5315.7	5315.7	5299.9	5304.4	5297.7	5306.7	5295.4	5295.4	5309.0	5309.0	5318.0
5°	5126.0	5114.8	5112.5	5108.0	5085.4	5094.4	5083.1	5071.8	5087.7	5087.7	5108.0
7.5°	4866.4	4846.0	4855.1	4841.5	4828.0	4807.6	4814.4	4805.4	4816.7	4832.5	4852.8
10°	4733.1	4715.1	4726.3	4712.8	4719.6	4690.2	4692.5	4694.7	4706.0	4710.5	4728.6
12.5°	4647.3	4642.8	4638.3	4633.8	4638.3	4622.5	4613.4	4615.7	4620.2	4622.5	4636.0
15°	4466.7	4437.3	4446.3	4414.7	4417.0	4419.2	4401.2	4419.2	4417.0	4446.3	4473.4
17.5°	4319.9	4319.9	4304.1	4290.5	4281.5	4279.2	4265.7	4274.7	4265.7	4283.7	4290.5
20°	4218.3	4216.0	4213.7	4207.0	4184.4	4186.6	4193.4	4173.1	4170.8	4168.6	4182.1
22.5°	4170.8	4173.1	4164.1	4164.1	4143.7	4148.3	4150.5	4127.9	4130.2	4123.4	4130.2
25°	4121.2	4125.7	4114.4	4114.4	4109.9	4107.6	4096.3	4100.8	4087.3	4076.0	4087.3
27.5°	4062.4	4071.5	4062.4	4067.0	4057.9	4053.4	4046.6	4042.1	4028.6	4026.3	4033.1
30°	4008.3	4012.8	4010.5	3999.2	3997.0	3983.4	3990.2	3976.6	3963.1	3965.3	3969.9
32.5°	2054.9	1962.3	1513.0	1366.2	1352.6	1402.3	1662.0	2023.3	2621.7	3202.1	3619.8
35°	896.5	896.5	896.5	894.2	894.2	892.0	889.7	887.5	885.2	882.9	880.7
37.5°	901.0	901.0	901.0	901.0	898.8	896.5	896.5	892.0	889.7	887.5	885.2
40°	903.3	905.5	905.5	905.5	903.3	903.3	901.0	896.5	894.2	889.7	885.2
42.5°	901.0	903.3	903.3	901.0	901.0	898.8	898.8	896.5	894.2	892.0	889.7
45°	871.7	873.9	869.4	869.4	867.1	867.1	867.1	867.1	867.1	869.4	869.4
47.5°	819.7	819.7	817.5	815.2	815.2	812.9	815.2	812.9	817.5	819.7	824.2
50°	758.7	758.7	754.2	752.0	752.0	752.0	752.0	754.2	756.5	761.0	765.5
52.5°	695.5	695.5	693.3	691.0	688.7	688.7	695.5	693.3	695.5	697.8	704.5
55°	634.5	636.8	632.3	632.3	630.0	630.0	630.0	632.3	634.5	636.8	643.6
57.5°	582.6	582.6	578.1	578.1	578.1	575.8	582.6	578.1	580.3	582.6	587.1
60°	530.7	528.4	528.4	526.2	526.2	526.2	530.7	528.4	528.4	530.7	535.2
62.5°	483.2	483.2	481.0	481.0	478.7	478.7	483.2	481.0	481.0	483.2	485.5
65°	429.1	429.1	426.8	424.5	431.3	424.5	431.3	426.8	431.3	433.6	438.1
67.5°	368.1	368.1	368.1	365.8	365.8	370.3	372.6	368.1	370.3	374.9	377.1
70°	313.9	313.9	311.6	311.6	311.6	316.1	318.4	313.9	316.1	318.4	322.9
72.5°	266.5	261.9	261.9	259.7	264.2	264.2	266.5	264.2	266.5	266.5	271.0
75°	219.0	214.5	214.5	214.5	219.0	216.8	219.0	216.8	219.0	219.0	221.3
77.5°	176.1	173.9	171.6	171.6	176.1	176.1	176.1	173.9	176.1	178.4	180.7
80°	137.7	135.5	133.2	133.2	137.7	137.7	137.7	140.0	137.7	140.0	142.3
82.5°	101.6	99.4	97.1	101.6	101.6	101.6	101.6	103.9	101.6	103.9	106.1
85°	67.7	65.5	63.2	67.7	67.7	67.7	67.7	70.0	67.7	70.0	72.3
87.5°	36.1	33.9	33.9	36.1	36.1	36.1	38.4	38.4	38.4	40.6	40.6
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5331.5	5338.3	5336.1	5322.5	5309.0	5293.1	5281.9	5284.1	5306.7	5313.5	5293.1
5°	5108.0	5150.9	5150.9	5180.2	5164.4	5150.9	5159.9	5209.6	5234.4	5272.8	5286.4
7.5°	4877.6	4898.0	4895.7	4925.1	4920.6	4920.6	4927.3	4992.8	5024.4	5056.0	5065.1
10°	4748.9	4769.3	4767.0	4769.3	4762.5	4746.7	4746.7	4776.0	4803.1	4818.9	4823.5
12.5°	4656.3	4667.6	4665.4	4665.4	4660.9	4647.3	4645.1	4669.9	4699.3	4719.6	4721.8
15°	4518.6	4550.2	4557.0	4586.3	4579.6	4561.5	4566.0	4586.3	4604.4	4622.5	4615.7
17.5°	4313.1	4328.9	4331.2	4342.5	4337.9	4337.9	4365.0	4439.6	4489.2	4532.1	4536.7
20°	4195.7	4207.0	4202.5	4227.3	4216.0	4213.7	4220.5	4252.1	4274.7	4295.0	4331.2
22.5°	4139.2	4148.3	4141.5	4143.7	4123.4	4105.4	4100.8	4125.7	4150.5	4177.6	4177.6
25°	4091.8	4098.6	4096.3	4091.8	4076.0	4051.2	4046.6	4051.2	4060.2	4062.4	4046.6
27.5°	4035.3	4039.9	4039.9	4042.1	4021.8	3999.2	3994.7	3990.2	3999.2	3997.0	3972.1
30°	3976.6	3969.9	3972.1	3974.4	3956.3	3936.0	3927.0	3924.7	3933.7	3931.5	3906.6
32.5°	3836.6	3888.6	3893.1	3897.6	3881.8	3863.7	3854.7	3847.9	3852.4	3850.2	3827.6
35°	878.4	894.2	1095.2	2479.5	3366.9	3728.2	3766.6	3757.6	3759.9	3759.9	3741.8
37.5°	880.7	878.4	876.2	869.4	862.6	858.1	1483.6	3163.7	3665.0	3667.3	3651.5
40°	880.7	878.4	876.2	871.7	862.6	855.8	844.6	835.5	855.8	1883.3	3446.0
42.5°	885.2	880.7	876.2	871.7	862.6	853.6	844.6	833.3	840.0	835.5	824.2
45°	871.7	869.4	869.4	867.1	862.6	853.6	842.3	828.7	822.0	828.7	817.5
47.5°	828.7	831.0	837.8	840.0	840.0	842.3	835.5	826.5	815.2	822.0	808.4
50°	770.0	774.6	776.8	788.1	792.6	801.7	803.9	803.9	801.7	810.7	801.7
52.5°	706.8	711.3	722.6	727.1	731.6	745.2	749.7	756.5	761.0	774.6	783.6
55°	645.8	648.1	652.6	661.6	668.4	679.7	686.5	693.3	704.5	711.3	738.4
57.5°	589.4	591.6	600.7	602.9	607.4	616.5	623.3	632.3	641.3	645.8	677.5
60°	535.2	537.4	544.2	546.5	548.7	557.8	564.5	571.3	578.1	582.6	605.2
62.5°	487.8	487.8	494.5	494.5	496.8	503.6	508.1	512.6	519.4	521.6	532.9
65°	440.3	442.6	447.1	447.1	449.4	453.9	456.2	458.4	465.2	465.2	474.2
67.5°	381.6	383.9	390.7	395.2	397.4	406.5	408.7	411.0	415.5	417.8	422.3
70°	325.2	327.4	334.2	336.5	338.7	345.5	350.0	356.8	363.6	370.3	374.9
72.5°	273.2	275.5	282.3	282.3	289.0	291.3	295.8	298.1	304.9	309.4	316.1
75°	223.6	225.8	232.6	232.6	239.4	241.6	243.9	246.1	250.7	255.2	259.7
77.5°	182.9	182.9	191.9	196.5	201.0	201.0	203.2	203.2	203.2	205.5	210.0
80°	144.5	144.5	151.3	155.8	160.3	160.3	162.6	164.8	167.1	167.1	169.4
82.5°	108.4	108.4	115.2	117.4	121.9	121.9	121.9	124.2	126.5	124.2	128.7
85°	74.5	74.5	79.0	81.3	85.8	85.8	85.8	88.1	90.3	88.1	90.3
87.5°	42.9	45.2	47.4	49.7	51.9	54.2	54.2	54.2	56.5	56.5	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5270.6	5243.5	5241.2	5209.6	5200.6	5202.8	5178.0	5169.0	5128.3	5119.3	5076.4
5°	5290.9	5304.4	5297.7	5295.4	5302.2	5297.7	5279.6	5270.6	5263.8	5245.7	5209.6
7.5°	5067.3	5076.4	5083.1	5112.5	5137.3	5180.2	5225.4	5254.8	5277.3	5281.9	5252.5
10°	4839.3	4882.2	4911.5	4956.7	4992.8	5017.7	5044.8	5069.6	5135.1	5200.6	5239.0
12.5°	4721.8	4733.1	4730.9	4755.7	4780.5	4846.0	4909.3	4945.4	4995.1	5024.4	5094.4
15°	4622.5	4624.7	4631.5	4649.6	4663.1	4685.7	4715.1	4769.3	4868.6	4913.8	4952.2
17.5°	4532.1	4532.1	4536.7	4552.5	4570.5	4590.9	4608.9	4631.5	4681.2	4755.7	4850.5
20°	4387.6	4450.9	4457.6	4455.4	4464.4	4502.8	4507.3	4548.0	4572.8	4602.1	4694.7
22.5°	4173.1	4211.5	4265.7	4349.2	4380.8	4398.9	4412.5	4430.5	4468.9	4502.8	4541.2
25°	4055.7	4080.5	4096.3	4121.2	4186.6	4292.8	4313.1	4333.4	4358.3	4383.1	4430.5
27.5°	3951.8	3949.5	3960.8	3983.4	4001.5	4057.9	4157.3	4236.3	4240.8	4277.0	4317.6
30°	3877.3	3863.7	3847.9	3843.4	3868.2	3897.6	3927.0	4051.2	4137.0	4155.0	4197.9
32.5°	3807.3	3784.7	3762.1	3744.0	3728.2	3753.1	3771.1	3825.3	3936.0	4039.9	4062.4
35°	3721.5	3698.9	3671.8	3651.5	3626.6	3624.4	3622.1	3674.0	3710.2	3834.4	3942.8
37.5°	3633.4	3608.6	3586.0	3563.4	3538.6	3520.5	3509.2	3522.7	3556.6	3610.8	3791.5
40°	3540.8	3511.5	3488.9	3470.8	3436.9	3423.4	3400.8	3391.8	3394.0	3441.5	3536.3
42.5°	2115.9	3373.7	3385.0	3364.7	3335.3	3317.3	3292.4	3281.1	3258.5	3281.1	3335.3
45°	815.2	824.2	2468.2	3260.8	3224.7	3202.1	3179.5	3168.2	3143.4	3125.3	3175.0
47.5°	799.4	808.4	790.4	1120.1	3077.9	3084.7	3057.6	3046.3	3021.4	3007.9	2994.3
50°	788.1	794.9	781.3	785.8	770.0	2820.5	2933.4	2919.8	2892.7	2876.9	2849.8
52.5°	776.8	776.8	767.8	756.5	752.0	754.2	2373.3	2791.1	2759.5	2743.7	2707.5
55°	740.7	745.2	754.2	736.2	731.6	729.4	722.6	2260.4	2612.7	2594.6	2563.0
57.5°	686.5	695.5	720.4	715.8	715.8	697.8	693.3	693.3	2097.8	2443.3	2411.7
60°	623.3	632.3	659.4	668.4	675.2	670.7	666.2	663.9	654.9	2210.7	2251.4
62.5°	557.8	566.8	575.8	605.2	614.2	625.5	639.1	632.3	623.3	623.3	2082.0
65°	487.8	501.3	505.8	532.9	544.2	564.5	575.8	591.6	587.1	584.9	596.2
67.5°	426.8	442.6	444.9	456.2	476.5	485.5	499.1	528.4	542.0	546.5	551.0
70°	374.9	383.9	390.7	395.2	408.7	411.0	435.8	456.2	476.5	499.1	505.8
72.5°	322.9	329.7	343.2	338.7	343.2	352.3	365.8	379.4	399.7	431.3	451.6
75°	264.2	268.7	277.8	282.3	291.3	298.1	307.1	318.4	336.5	352.3	379.4
77.5°	212.3	214.5	221.3	223.6	232.6	239.4	255.2	261.9	273.2	284.5	300.3
80°	171.6	171.6	173.9	173.9	180.7	187.4	198.7	205.5	219.0	228.1	228.1
82.5°	131.0	131.0	137.7	137.7	142.3	142.3	149.0	149.0	155.8	160.3	164.8
85°	92.6	94.8	99.4	97.1	101.6	99.4	103.9	108.4	110.7	108.4	106.1
87.5°	61.0	61.0	65.5	63.2	65.5	65.5	70.0	70.0	72.3	72.3	70.0
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5060.6	5026.7	5006.4	4981.5	4974.7	4968.0	4977.0	4977.0	4963.5	4952.2	4931.8
5°	5178.0	5141.9	5103.5	5062.8	5024.4	4983.8	4968.0	4965.7	4940.9	4927.3	4920.6
7.5°	5239.0	5220.9	5178.0	5121.5	5062.8	4990.6	4958.9	4940.9	4916.0	4911.5	4911.5
10°	5245.7	5225.4	5202.8	5162.2	5094.4	4999.6	4938.6	4902.5	4879.9	4895.7	4925.1
12.5°	5180.2	5218.6	5198.3	5171.2	5117.0	5001.8	4913.8	4859.6	4852.8	4893.5	4970.2
15°	5013.1	5126.0	5182.5	5155.4	5112.5	4997.3	4873.1	4809.9	4809.9	4893.5	4992.8
17.5°	4886.7	4974.7	5112.5	5135.1	5085.4	4988.3	4834.7	4760.2	4780.5	4902.5	5008.6
20°	4782.8	4837.0	4970.2	5096.7	5049.3	4968.0	4778.3	4701.5	4742.2	4888.9	5031.2
22.5°	4620.2	4728.6	4809.9	4997.3	5013.1	4929.6	4721.8	4629.2	4710.5	4888.9	5019.9
25°	4462.1	4593.1	4678.9	4861.8	4958.9	4882.2	4669.9	4552.5	4676.7	4882.2	5010.9
27.5°	4351.5	4412.5	4568.3	4699.3	4877.6	4818.9	4599.9	4468.9	4633.8	4846.0	4958.9
30°	4234.1	4274.7	4428.3	4552.5	4769.3	4746.7	4527.6	4376.3	4579.6	4812.2	4823.5
32.5°	4105.4	4150.5	4229.6	4410.2	4618.0	4678.9	4446.3	4283.7	4520.9	4760.2	4665.4
35°	3974.4	4008.3	4071.5	4265.7	4441.8	4577.3	4347.0	4177.6	4480.2	4681.2	4514.1
37.5°	3843.4	3879.5	3933.7	4096.3	4256.6	4482.5	4261.2	4071.5	4405.7	4541.2	4356.0
40°	3719.2	3739.5	3796.0	3897.6	4103.1	4385.4	4164.1	3960.8	4328.9	4362.8	4141.5
42.5°	3491.1	3592.7	3644.7	3726.0	3929.2	4252.1	4051.2	3843.4	4243.1	4184.4	3927.0
45°	3245.0	3466.3	3488.9	3570.2	3775.7	4109.9	3945.0	3728.2	4161.8	4030.8	3723.7
47.5°	3044.0	3204.3	3335.3	3403.1	3592.7	3942.8	3845.7	3631.1	4039.9	3836.6	3525.0
50°	2865.6	2951.4	3188.5	3238.2	3373.7	3741.8	3728.2	3518.2	3870.5	3592.7	3330.8
52.5°	2691.7	2752.7	2967.2	3073.4	3184.0	3525.0	3588.2	3407.6	3685.3	3348.9	3134.3
55°	2540.4	2560.8	2678.2	2901.7	3001.1	3306.0	3434.7	3278.9	3450.5	3116.3	2944.7
57.5°	2384.6	2366.6	2452.4	2739.2	2811.4	3082.4	3272.1	3147.9	3260.8	2879.2	2748.2
60°	2222.0	2197.2	2233.3	2423.0	2610.4	2861.1	3080.1	3003.4	3030.5	2644.3	2529.1
62.5°	2052.7	2027.8	2016.5	2136.2	2414.0	2633.0	2885.9	2843.0	2748.2	2429.8	2258.2
65°	1876.5	1851.7	1833.6	1881.1	2197.2	2337.2	2669.2	2657.9	2438.8	2204.0	1901.4
67.5°	571.3	1684.6	1646.2	1643.9	1851.7	2068.5	2434.3	2416.2	2127.2	1962.3	1637.2
70°	514.9	1366.2	1452.0	1431.7	1522.0	1795.2	2165.6	2152.0	1824.6	1573.9	1447.5
72.5°	472.0	483.2	1282.6	1260.1	1280.4	1526.5	1885.6	1849.4	1546.8	1242.0	1251.0
75°	404.2	424.5	442.6	1063.6	1036.5	1264.6	1580.7	1524.3	1275.9	1025.2	1045.5
77.5°	329.7	354.5	368.1	774.6	837.8	901.0	1262.3	1187.8	878.4	819.7	390.7
80°	246.1	266.5	289.0	309.4	636.8	630.0	937.1	862.6	612.0	510.3	304.9
82.5°	180.7	187.4	201.0	223.6	252.9	422.3	602.9	530.7	424.5	232.6	210.0
85°	112.9	121.9	128.7	135.5	153.6	252.9	298.1	237.1	178.4	142.3	133.2
87.5°	72.3	72.3	70.0	72.3	74.5	90.3	101.6	97.1	76.8	72.3	72.3
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	4909.3	4877.6	4877.6	4868.6	4875.4	4875.4	4873.1	4875.4	4891.2	4900.2	4916.0
5°	4907.0	4898.0	4918.3	4943.1	4972.5	5008.6	5017.7	5049.3	5078.6	5117.0	5157.7
7.5°	4936.4	4968.0	5006.4	5047.0	5105.7	5148.6	5187.0	5225.4	5252.5	5288.6	5311.2
10°	4979.3	5042.5	5108.0	5159.9	5223.1	5259.3	5284.1	5288.6	5250.2	5189.3	5139.6
12.5°	5040.2	5114.8	5175.7	5225.4	5254.8	5241.2	5169.0	5094.4	5051.5	4988.3	4900.2
15°	5092.2	5159.9	5223.1	5202.8	5123.8	5049.3	4992.8	4904.7	4818.9	4760.2	4721.8
17.5°	5114.8	5180.2	5157.7	5051.5	4977.0	4891.2	4776.0	4708.3	4651.8	4606.7	4584.1
20°	5128.3	5117.0	4995.1	4918.3	4773.8	4694.7	4620.2	4557.0	4514.1	4491.5	4487.0
22.5°	5092.2	4954.4	4850.5	4712.8	4606.7	4541.2	4482.5	4430.5	4401.2	4383.1	4371.8
25°	4972.5	4812.2	4658.6	4550.2	4459.9	4403.4	4358.3	4315.4	4279.2	4270.2	4247.6
27.5°	4805.4	4674.4	4471.2	4387.6	4308.6	4281.5	4231.8	4188.9	4157.3	4130.2	4057.9
30°	4667.6	4459.9	4313.1	4236.3	4188.9	4157.3	4100.8	4055.7	4001.5	3902.1	3861.5
32.5°	4498.3	4292.8	4152.8	4109.9	4051.2	4024.1	3960.8	3861.5	3777.9	3737.3	3735.0
35°	4279.2	4109.9	4008.3	3969.9	3922.4	3877.3	3746.3	3656.0	3615.3	3619.8	3653.7
37.5°	4096.3	3945.0	3879.5	3825.3	3771.1	3656.0	3545.3	3502.4	3513.7	3536.3	3552.1
40°	3911.1	3796.0	3721.5	3678.6	3556.6	3443.7	3385.0	3400.8	3421.1	3436.9	3457.3
42.5°	3730.5	3649.2	3574.7	3491.1	3324.0	3263.1	3276.6	3296.9	3315.0	3337.6	3357.9
45°	3558.9	3486.6	3400.8	3211.1	3127.6	3143.4	3163.7	3179.5	3206.6	3222.4	3242.7
47.5°	3396.3	3319.5	3168.2	3001.1	2992.1	3023.7	3041.8	3062.1	3082.4	3041.8	1677.8
50°	3213.4	3134.3	2904.0	2840.8	2861.1	2890.5	2913.0	2933.4	2612.7	1038.8	799.4
52.5°	3032.7	2831.7	2685.0	2703.0	2723.4	2757.2	2773.0	2059.5	819.7	781.3	783.6
55°	2831.7	2574.3	2531.4	2554.0	2572.1	2605.9	1727.5	756.5	752.0	749.7	767.8
57.5°	2515.6	2359.8	2377.9	2400.4	2418.5	1707.2	736.2	731.6	733.9	736.2	738.4
60°	2233.3	2199.5	2219.8	2240.1	1585.2	711.3	697.8	700.0	709.1	702.3	684.2
62.5°	2009.8	2036.9	2057.2	1802.0	675.2	668.4	675.2	668.4	652.6	641.3	618.7
65°	1838.1	1865.2	1881.1	634.5	632.3	641.3	634.5	612.0	587.1	555.5	548.7
67.5°	1657.5	1684.6	602.9	587.1	596.2	584.9	557.8	530.7	512.6	485.5	474.2
70°	1470.1	630.0	546.5	544.2	528.4	510.3	481.0	453.9	431.3	420.0	408.7
72.5°	1061.3	499.1	492.3	474.2	447.1	422.3	397.4	381.6	370.3	363.6	356.8
75°	442.6	433.6	413.2	381.6	354.5	343.2	325.2	313.9	309.4	295.8	291.3
77.5°	370.3	352.3	322.9	300.3	284.5	277.8	264.2	250.7	243.9	241.6	232.6
80°	284.5	259.7	246.1	234.8	230.3	214.5	198.7	191.9	187.4	185.2	178.4
82.5°	194.2	185.2	176.1	160.3	160.3	153.6	146.8	142.3	137.7	137.7	133.2
85°	126.5	119.7	117.4	110.7	110.7	106.1	103.9	101.6	99.4	97.1	94.8
87.5°	72.3	72.3	74.5	72.3	72.3	70.0	67.7	65.5	63.2	63.2	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	4936.4	4958.9	4963.5	5040.2	5083.1	5080.9	5067.3	5108.0	5083.1	5069.6	5083.1
5°	5198.3	5225.4	5248.0	5331.5	5360.9	5374.4	5372.2	5394.8	5376.7	5360.9	5360.9
7.5°	5327.0	5336.1	5345.1	5324.8	5311.2	5288.6	5254.8	5205.1	5180.2	5153.1	5119.3
10°	5114.8	5085.4	5096.7	5056.0	5022.2	4997.3	4965.7	4925.1	4891.2	4866.4	4828.0
12.5°	4855.1	4852.8	4857.3	4864.1	4830.2	4809.9	4785.1	4755.7	4730.9	4703.8	4672.2
15°	4697.0	4699.3	4717.3	4710.5	4699.3	4688.0	4660.9	4651.8	4629.2	4599.9	4581.8
17.5°	4584.1	4595.4	4613.4	4604.4	4586.3	4575.1	4554.7	4534.4	4514.1	4491.5	4464.4
20°	4484.7	4496.0	4507.3	4496.0	4462.1	4446.3	4419.2	4356.0	4310.8	4265.7	4225.0
22.5°	4376.3	4383.1	4374.1	4337.9	4252.1	4211.5	4179.9	4161.8	4123.4	4098.6	4073.7
25°	4240.8	4202.5	4143.7	4103.1	4069.2	4051.2	4037.6	4035.3	4030.8	4026.3	4015.0
27.5°	4019.5	4006.0	3974.4	3958.6	3960.8	3967.6	3969.9	3976.6	3969.9	3960.8	3951.8
30°	3854.7	3861.5	3863.7	3868.2	3879.5	3886.3	3888.6	3897.6	3893.1	3886.3	3881.8
32.5°	3750.8	3766.6	3775.7	3789.2	3796.0	3807.3	3807.3	3820.8	3807.3	3805.0	3800.5
35°	3665.0	3678.6	3683.1	3703.4	3710.2	3721.5	3721.5	3732.8	3721.5	3606.3	2847.6
37.5°	3579.2	3592.7	3601.8	3619.8	3622.1	3628.9	3348.9	2450.1	1580.7	1223.9	934.9
40°	3477.6	3493.4	3502.4	3509.2	2465.9	1564.9	1077.1	876.2	876.2	882.9	889.7
42.5°	3369.2	3380.5	2355.3	1370.7	853.6	851.3	858.1	864.9	871.7	880.7	889.7
45°	2648.8	1336.8	849.1	828.7	835.5	844.6	853.6	862.6	873.9	882.9	887.5
47.5°	869.4	815.2	826.5	817.5	828.7	840.0	849.1	858.1	860.4	862.6	860.4
50°	803.9	803.9	810.7	810.7	819.7	824.2	824.2	824.2	815.2	812.9	806.2
52.5°	776.8	794.9	785.8	790.4	785.8	779.1	772.3	765.5	752.0	747.5	738.4
55°	763.3	770.0	747.5	740.7	731.6	713.6	704.5	695.5	684.2	679.7	668.4
57.5°	731.6	715.8	691.0	679.7	663.9	645.8	636.8	630.0	618.7	614.2	607.4
60°	672.9	641.3	625.5	612.0	593.9	578.1	571.3	566.8	557.8	555.5	548.7
62.5°	600.7	573.6	560.0	542.0	528.4	519.4	512.6	510.3	501.3	501.3	496.8
65°	521.6	508.1	496.8	478.7	472.0	462.9	460.7	458.4	453.9	451.6	447.1
67.5°	458.4	449.4	433.6	424.5	420.0	413.2	408.7	404.2	395.2	390.7	383.9
70°	402.0	395.2	379.4	372.6	363.6	352.3	345.5	341.0	334.2	329.7	322.9
72.5°	347.8	327.4	316.1	309.4	302.6	291.3	289.0	284.5	277.8	275.5	268.7
75°	280.0	264.2	257.4	252.9	246.1	239.4	239.4	239.4	232.6	230.3	228.1
77.5°	223.6	214.5	210.0	205.5	203.2	198.7	191.9	189.7	182.9	182.9	180.7
80°	171.6	167.1	162.6	160.3	158.1	153.6	149.0	146.8	140.0	140.0	137.7
82.5°	126.5	124.2	121.9	119.7	117.4	115.2	108.4	106.1	101.6	101.6	99.4
85°	90.3	88.1	83.6	81.3	81.3	79.0	72.3	70.0	65.5	65.5	65.5
87.5°	56.5	54.2	51.9	49.7	47.4	45.2	40.6	38.4	38.4	33.9	31.6
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5056.0	5094.4	5089.9	5117.0	5123.8	5137.3	5141.9	5144.1	5110.2	5137.3	5139.6
5°	5354.1	5360.9	5365.4	5376.7	5388.0	5390.3	5379.0	5365.4	5369.9	5360.9	5338.3
7.5°	5114.8	5080.9	5074.1	5065.1	5060.6	5056.0	5035.7	5053.8	5033.5	5024.4	4992.8
10°	4821.2	4789.6	4787.3	4787.3	4794.1	4791.8	4787.3	4778.3	4796.4	4785.1	4778.3
12.5°	4667.6	4656.3	4663.1	4658.6	4676.7	4681.2	4676.7	4676.7	4672.2	4663.1	4667.6
15°	4575.1	4566.0	4572.8	4566.0	4579.6	4581.8	4570.5	4577.3	4566.0	4554.7	4550.2
17.5°	4453.1	4432.8	4417.0	4394.4	4396.7	4392.1	4378.6	4378.6	4367.3	4337.9	4340.2
20°	4218.3	4197.9	4188.9	4188.9	4200.2	4204.7	4202.5	4207.0	4195.7	4191.2	4173.1
22.5°	4071.5	4069.2	4073.7	4085.0	4103.1	4127.9	4130.2	4130.2	4130.2	4127.9	4105.4
25°	4019.5	4019.5	4024.1	4039.9	4053.4	4071.5	4076.0	4080.5	4076.0	4076.0	4055.7
27.5°	3960.8	3956.3	3965.3	3981.2	3997.0	4010.5	4021.8	4024.1	4017.3	4017.3	4024.1
30°	3888.6	3886.3	3897.6	3913.4	3927.0	3940.5	3951.8	3960.8	3951.8	3951.8	3945.0
32.5°	3814.0	3814.0	3818.6	3723.7	3452.7	3109.5	3116.3	2917.6	2779.8	2605.9	2836.3
35°	2380.1	1732.0	1488.1	1260.1	1099.7	995.9	993.6	959.7	943.9	932.6	930.4
37.5°	898.8	903.3	912.3	916.8	923.6	928.1	930.4	930.4	930.4	930.4	928.1
40°	896.5	905.5	912.3	919.1	925.8	930.4	930.4	932.6	934.9	934.9	934.9
42.5°	898.8	907.8	916.8	923.6	928.1	930.4	932.6	934.9	934.9	934.9	934.9
45°	896.5	901.0	901.0	903.3	903.3	903.3	905.5	905.5	903.3	901.0	905.5
47.5°	862.6	862.6	855.8	853.6	851.3	846.8	849.1	846.8	844.6	842.3	846.8
50°	803.9	794.9	790.4	785.8	783.6	779.1	781.3	779.1	776.8	772.3	779.1
52.5°	733.9	731.6	722.6	718.1	715.8	718.1	713.6	711.3	709.1	706.8	709.1
55°	666.2	657.1	654.9	650.4	648.1	650.4	648.1	645.8	643.6	641.3	643.6
57.5°	605.2	598.4	596.2	591.6	591.6	591.6	591.6	589.4	587.1	584.9	587.1
60°	546.5	542.0	539.7	539.7	537.4	537.4	537.4	535.2	532.9	532.9	535.2
62.5°	496.8	496.8	490.0	487.8	487.8	490.0	487.8	485.5	483.2	481.0	485.5
65°	444.9	435.8	433.6	429.1	424.5	426.8	424.5	422.3	420.0	417.8	422.3
67.5°	381.6	379.4	370.3	365.8	363.6	365.8	363.6	361.3	359.0	356.8	361.3
70°	320.7	320.7	311.6	309.4	307.1	307.1	304.9	304.9	302.6	300.3	304.9
72.5°	266.5	266.5	264.2	259.7	257.4	255.2	252.9	250.7	250.7	252.9	252.9
75°	221.3	216.8	207.8	210.0	207.8	205.5	205.5	203.2	201.0	205.5	203.2
77.5°	173.9	171.6	164.8	167.1	164.8	162.6	162.6	160.3	158.1	160.3	160.3
80°	131.0	131.0	128.7	126.5	126.5	124.2	121.9	121.9	119.7	121.9	121.9
82.5°	94.8	94.8	92.6	90.3	88.1	88.1	85.8	85.8	85.8	85.8	85.8
85°	61.0	58.7	58.7	54.2	54.2	54.2	51.9	51.9	51.9	51.9	51.9
87.5°	29.4	29.4	27.1	27.1	24.8	22.6	22.6	20.3	20.3	22.6	22.6
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5098.9	5128.3	5103.5	5114.8	5117.0	5155.4	5153.1	5162.2	5146.4	5128.3	5103.5
5°	5358.6	5345.1	5327.0	5369.9	5347.3	5374.4	5383.5	5401.5	5401.5	5399.3	5379.0
7.5°	5026.7	4997.3	5019.9	5035.7	5042.5	5024.4	5060.6	5101.2	5135.1	5155.4	5157.7
10°	4767.0	4776.0	4773.8	4780.5	4796.4	4794.1	4816.7	4839.3	4848.3	4861.8	4866.4
12.5°	4645.1	4642.8	4647.3	4663.1	4672.2	4669.9	4692.5	4706.0	4710.5	4712.8	4710.5
15°	4548.0	4532.1	4543.4	4545.7	4552.5	4552.5	4579.6	4599.9	4608.9	4613.4	4608.9
17.5°	4365.0	4326.7	4362.8	4362.8	4387.6	4383.1	4426.0	4459.9	4478.0	4491.5	4491.5
20°	4184.4	4166.3	4179.9	4175.4	4193.4	4191.2	4218.3	4240.8	4256.6	4267.9	4281.5
22.5°	4112.1	4116.6	4096.3	4098.6	4098.6	4096.3	4109.9	4121.2	4125.7	4132.5	4127.9
25°	4064.7	4069.2	4062.4	4051.2	4046.6	4051.2	4057.9	4071.5	4073.7	4069.2	4053.4
27.5°	4017.3	4003.7	4015.0	3994.7	3990.2	3999.2	4008.3	4010.5	4012.8	4012.8	3999.2
30°	3945.0	3933.7	3945.0	3936.0	3927.0	3936.0	3942.8	3942.8	3947.3	3949.5	3933.7
32.5°	2757.2	2779.8	3145.6	3366.9	3678.6	3836.6	3866.0	3866.0	3870.5	3870.5	3857.0
35°	939.4	941.7	1018.4	1104.2	1287.2	1513.0	1808.8	1962.3	2481.7	3102.7	3703.4
37.5°	928.1	925.8	923.6	921.3	919.1	916.8	912.3	910.0	923.6	1095.2	1485.9
40°	932.6	930.4	925.8	923.6	921.3	916.8	914.6	910.0	905.5	901.0	896.5
42.5°	932.6	930.4	928.1	925.8	923.6	921.3	916.8	912.3	907.8	901.0	894.2
45°	901.0	901.0	903.3	903.3	905.5	905.5	905.5	903.3	903.3	901.0	892.0
47.5°	842.3	842.3	849.1	849.1	853.6	858.1	858.1	862.6	869.4	873.9	876.2
50°	774.6	774.6	781.3	783.6	788.1	794.9	801.7	803.9	810.7	819.7	828.7
52.5°	706.8	706.8	713.6	713.6	718.1	724.9	731.6	733.9	742.9	752.0	763.3
55°	643.6	643.6	648.1	650.4	652.6	657.1	663.9	663.9	672.9	679.7	691.0
57.5°	587.1	591.6	591.6	591.6	593.9	598.4	602.9	602.9	609.7	616.5	625.5
60°	532.9	537.4	537.4	537.4	539.7	542.0	546.5	546.5	551.0	555.5	564.5
62.5°	483.2	487.8	487.8	490.0	490.0	492.3	496.8	494.5	499.1	501.3	508.1
65°	420.0	424.5	426.8	429.1	431.3	435.8	442.6	440.3	447.1	451.6	458.4
67.5°	359.0	363.6	363.6	365.8	368.1	372.6	377.1	377.1	383.9	388.4	397.4
70°	302.6	307.1	307.1	309.4	311.6	316.1	320.7	318.4	325.2	329.7	336.5
72.5°	250.7	255.2	255.2	257.4	257.4	261.9	266.5	271.0	271.0	275.5	280.0
75°	203.2	205.5	207.8	207.8	210.0	212.3	216.8	221.3	223.6	225.8	230.3
77.5°	160.3	162.6	164.8	164.8	167.1	169.4	171.6	180.7	185.2	187.4	187.4
80°	121.9	124.2	124.2	124.2	126.5	128.7	133.2	133.2	142.3	142.3	144.5
82.5°	85.8	88.1	88.1	88.1	90.3	94.8	97.1	99.4	103.9	106.1	106.1
85°	51.9	54.2	54.2	54.2	56.5	58.7	63.2	65.5	67.7	67.7	70.0
87.5°	20.3	22.6	24.8	24.8	27.1	29.4	31.6	33.9	36.1	36.1	38.4
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	5076.4	5092.2	5076.4	5085.4	5096.7	5076.4	5028.9	5010.9	5004.1	4977.0	4958.9
5°	5358.6	5358.6	5351.9	5369.9	5367.7	5336.1	5286.4	5263.8	5241.2	5211.9	5189.3
7.5°	5157.7	5175.7	5187.0	5257.0	5302.2	5306.7	5338.3	5345.1	5354.1	5345.1	5331.5
10°	4868.6	4861.8	4893.5	4958.9	4997.3	5017.7	5078.6	5108.0	5132.8	5182.5	5234.4
12.5°	4706.0	4715.1	4728.6	4776.0	4812.2	4803.1	4828.0	4848.3	4877.6	4927.3	5001.8
15°	4597.6	4606.7	4620.2	4656.3	4678.9	4667.6	4681.2	4694.7	4715.1	4739.9	4785.1
17.5°	4480.2	4496.0	4511.8	4550.2	4570.5	4568.3	4579.6	4584.1	4590.9	4606.7	4638.3
20°	4297.3	4347.0	4378.6	4430.5	4459.9	4455.4	4475.7	4482.5	4491.5	4507.3	4520.9
22.5°	4130.2	4143.7	4159.5	4216.0	4265.7	4326.7	4340.2	4358.3	4380.8	4396.7	4410.2
25°	4035.3	4026.3	4033.1	4071.5	4098.6	4103.1	4123.4	4182.1	4243.1	4270.2	4301.8
27.5°	3978.9	3969.9	3967.6	3985.7	3990.2	3978.9	3974.4	3992.4	4037.6	4082.8	4177.6
30°	3917.9	3906.6	3897.6	3913.4	3920.2	3904.4	3875.0	3859.2	3886.3	3897.6	3936.0
32.5°	3845.7	3834.4	3829.9	3838.9	3843.4	3829.9	3798.2	3780.2	3775.7	3766.6	3775.7
35°	3764.4	3753.1	3746.3	3748.6	3757.6	3746.3	3719.2	3696.6	3685.3	3660.5	3642.4
37.5°	1939.8	2748.2	3567.9	3653.7	3662.8	3660.5	3633.4	3608.6	3597.3	3567.9	3558.9
40°	887.5	991.3	1488.1	1944.3	2804.6	3563.4	3538.6	3513.7	3493.4	3484.4	3450.5
42.5°	885.2	887.5	889.7	878.4	1088.4	1854.0	2736.9	3416.6	3403.1	3380.5	3355.6
45°	885.2	873.9	882.9	869.4	873.9	871.7	1086.2	1752.3	3118.5	3258.5	3247.2
47.5°	876.2	869.4	878.4	867.1	853.6	860.4	851.3	862.6	1345.9	2283.0	3127.6
50°	835.5	840.0	855.8	853.6	842.3	851.3	835.5	849.1	837.8	919.1	1770.4
52.5°	774.6	783.6	799.4	812.9	817.5	828.7	824.2	828.7	819.7	822.0	824.2
55°	702.3	713.6	727.1	747.5	756.5	774.6	788.1	794.9	806.2	803.9	785.8
57.5°	634.5	645.8	657.1	677.5	697.8	706.8	731.6	745.2	774.6	767.8	763.3
60°	571.3	580.3	591.6	596.2	621.0	636.8	659.4	672.9	711.3	720.4	733.9
62.5°	514.9	519.4	528.4	535.2	551.0	566.8	578.1	600.7	621.0	650.4	670.7
65°	462.9	467.4	474.2	478.7	481.0	503.6	510.3	535.2	542.0	573.6	591.6
67.5°	404.2	413.2	422.3	426.8	431.3	444.9	449.4	460.7	476.5	490.0	512.6
70°	343.2	350.0	359.0	365.8	374.9	383.9	397.4	404.2	415.5	424.5	442.6
72.5°	286.8	293.6	298.1	304.9	311.6	318.4	329.7	345.5	354.5	370.3	374.9
75°	232.6	239.4	243.9	248.4	255.2	259.7	264.2	280.0	289.0	302.6	316.1
77.5°	191.9	191.9	196.5	210.0	207.8	207.8	212.3	221.3	228.1	237.1	250.7
80°	149.0	151.3	153.6	164.8	167.1	169.4	167.1	173.9	180.7	182.9	191.9
82.5°	110.7	112.9	112.9	119.7	126.5	126.5	126.5	128.7	135.5	137.7	142.3
85°	74.5	76.8	79.0	81.3	85.8	88.1	90.3	90.3	94.8	97.1	99.4
87.5°	40.6	45.2	47.4	49.7	51.9	54.2	56.5	58.7	61.0	63.2	65.5
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-LD5-128SL-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°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	4952.2	4940.9	4934.1	4916.0	4911.5	4882.2	4886.7	4882.2	4882.2	4888.9	4911.5
5°	5164.4	5110.2	5096.7	5058.3	5026.7	4972.5	4938.6	4920.6	4893.5	4882.2	4898.0
7.5°	5309.0	5268.3	5234.4	5200.6	5155.4	5092.2	5044.8	4990.6	4945.4	4902.5	4891.2
10°	5284.1	5329.3	5329.3	5309.0	5266.1	5202.8	5146.4	5078.6	4999.6	4931.8	4891.2
12.5°	5074.1	5153.1	5216.4	5263.8	5306.7	5263.8	5207.3	5153.1	5065.1	4965.7	4891.2
15°	4843.8	4925.1	5004.1	5103.5	5207.3	5250.2	5248.0	5184.8	5105.7	5001.8	4898.0
17.5°	4681.2	4737.6	4780.5	4888.9	5015.4	5126.0	5200.6	5205.1	5128.3	5035.7	4900.2
20°	4559.2	4599.9	4636.0	4697.0	4807.6	4943.1	5080.9	5157.7	5144.1	5042.5	4907.0
22.5°	4448.6	4478.0	4507.3	4552.5	4640.5	4728.6	4888.9	5047.0	5114.8	5031.2	4900.2
25°	4337.9	4369.6	4392.1	4423.8	4493.8	4566.0	4678.9	4875.4	5026.7	5022.2	4886.7
27.5°	4207.0	4249.9	4277.0	4319.9	4367.3	4421.5	4498.3	4683.4	4900.2	4977.0	4850.5
30°	4048.9	4112.1	4152.8	4200.2	4240.8	4288.3	4349.2	4462.1	4730.9	4888.9	4812.2
32.5°	3820.8	3933.7	4024.1	4069.2	4114.4	4155.0	4209.2	4304.1	4523.1	4769.3	4769.3
35°	3658.2	3710.2	3791.5	3922.4	3978.9	4019.5	4069.2	4143.7	4283.7	4627.0	4699.3
37.5°	3531.8	3552.1	3592.7	3721.5	3827.6	3893.1	3942.8	3990.2	4127.9	4432.8	4608.9
40°	3436.9	3430.2	3425.6	3486.6	3637.9	3741.8	3798.2	3845.7	3951.8	4200.2	4489.2
42.5°	3326.3	3319.5	3296.9	3312.7	3387.3	3561.1	3646.9	3698.9	3787.0	3956.3	4358.3
45°	3211.1	3199.8	3190.8	3175.0	3202.1	3299.2	3475.3	3552.1	3601.8	3753.1	4193.4
47.5°	3093.7	3077.9	3066.6	3053.0	3037.2	3082.4	3249.5	3387.3	3473.1	3567.9	3994.7
50°	2926.6	2946.9	2933.4	2917.6	2904.0	2895.0	2965.0	3190.8	3296.9	3373.7	3753.1
52.5°	1379.7	2682.7	2795.6	2779.8	2761.7	2745.9	2761.7	2933.4	3125.3	3186.3	3461.8
55°	785.8	1194.6	2486.2	2628.5	2612.7	2590.1	2576.6	2635.3	2922.1	3003.4	3195.3
57.5°	756.5	758.7	1097.5	2368.8	2456.9	2436.6	2420.8	2434.3	2678.2	2815.9	2962.7
60°	731.6	731.6	731.6	1047.8	2264.9	2271.7	2251.4	2228.8	2334.9	2605.9	2727.9
62.5°	677.5	691.0	697.8	697.8	1034.2	2097.8	2077.5	2070.7	2075.3	2353.0	2493.0
65°	607.4	639.1	652.6	661.6	661.6	1086.2	1899.1	1887.8	1872.0	1978.2	2255.9
67.5°	530.7	562.3	591.6	609.7	612.0	632.3	1133.6	1700.4	1677.8	1680.1	2003.0
70°	451.6	478.7	510.3	537.4	562.3	573.6	591.6	1411.4	1485.9	1454.3	1716.2
72.5°	390.7	402.0	424.5	451.6	481.0	508.1	523.9	562.3	1289.4	1255.5	1305.2
75°	325.2	334.2	350.0	368.1	390.7	422.3	449.4	476.5	684.2	1052.3	1045.5
77.5°	252.9	268.7	286.8	298.1	309.4	332.0	368.1	395.2	422.3	711.3	837.8
80°	194.2	205.5	214.5	225.8	239.4	255.2	268.7	300.3	332.0	356.8	641.3
82.5°	144.5	151.3	158.1	162.6	167.1	176.1	201.0	212.3	232.6	255.2	302.6
85°	101.6	106.1	110.7	112.9	115.2	117.4	126.5	128.7	149.0	153.6	182.9
87.5°	65.5	67.7	72.3	74.5	74.5	76.8	79.0	79.0	79.0	74.5	90.3
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-LD5-128SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	4927.3	4927.3
2.5°	4929.6	4965.7
5°	4922.8	4970.2
7.5°	4904.7	4949.9
10°	4877.6	4931.8
12.5°	4848.3	4900.2
15°	4823.5	4861.8
17.5°	4796.4	4818.9
20°	4760.2	4778.3
22.5°	4724.1	4715.1
25°	4683.4	4663.1
27.5°	4631.5	4593.1
30°	4584.1	4516.3
32.5°	4538.9	4428.3
35°	4478.0	4337.9
37.5°	4414.7	4245.4
40°	4340.2	4139.2
42.5°	4261.2	4033.1
45°	4161.8	3931.5
47.5°	4073.7	3809.5
50°	3951.8	3678.6
52.5°	3802.8	3556.6
55°	3626.6	3407.6
57.5°	3436.9	3251.8
60°	3233.7	3073.4
62.5°	2987.6	2888.2
65°	2698.5	2675.9
67.5°	2321.4	2441.1
70°	1903.6	2172.4
72.5°	1592.0	1887.8
75°	1305.2	1569.4
77.5°	1034.2	1230.7
80°	645.8	901.0
82.5°	433.6	591.6
85°	261.9	282.3
87.5°	101.6	103.9
90°	0.0	0.0

(END OF REPORT)