

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-LD5-93SL-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-LD5-93SL-RW-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

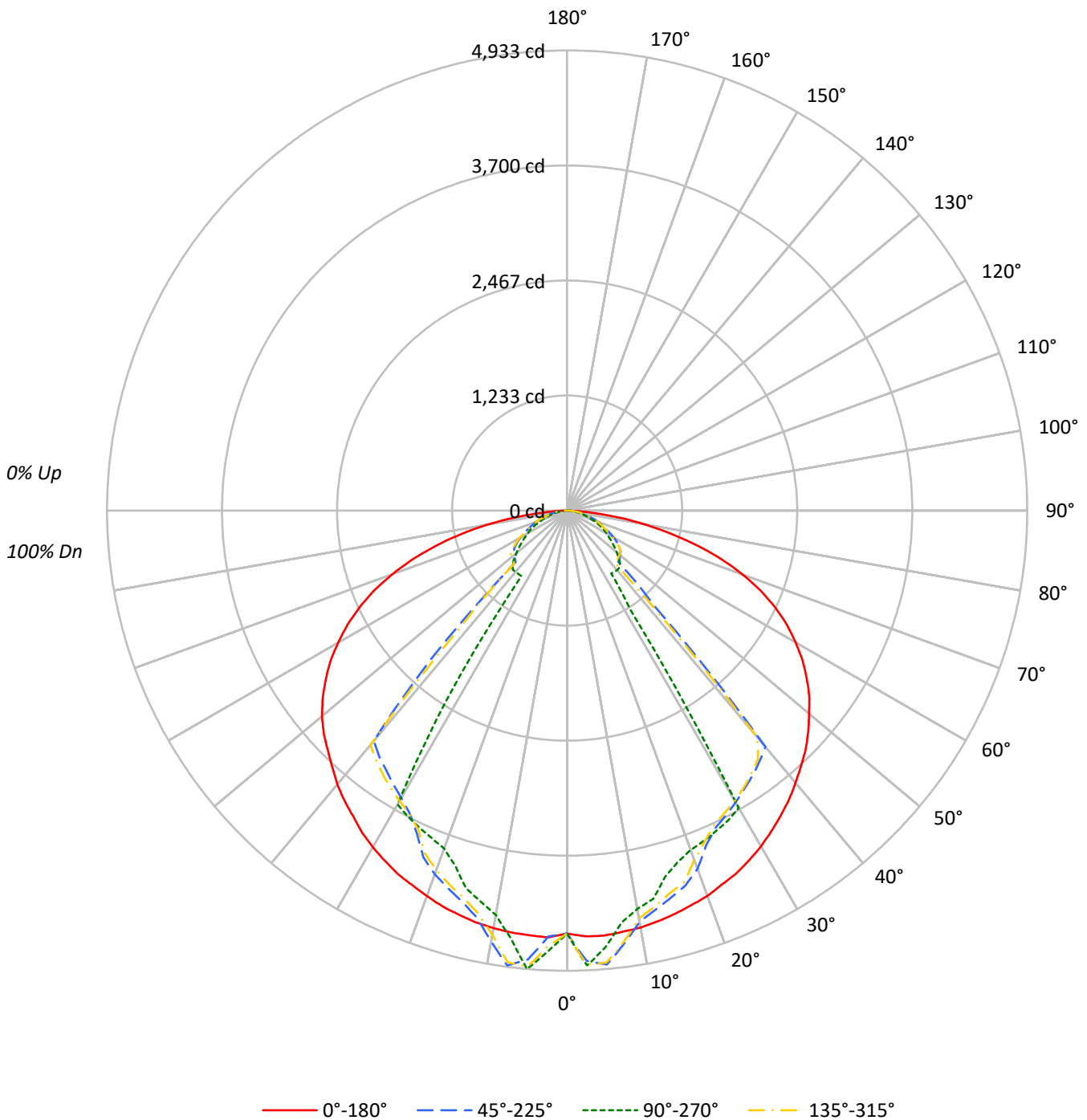
Lumens per Lamp: N/A  
Luminaire Lumens: 9079.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 75  
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-LD5-93SL-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	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°	18319	18319	18319	18319
5°	18524	18457	18515	19371
10°	18568	16687	18593	16943
15°	18635	15439	18679	15929
20°	18798	14644	18798	14589
25°	18990	14364	19018	14230
30°	19215	14110	19263	13943
35°	19475	3214	19516	3352
40°	19829	3342	19948	3450
45°	20353	3324	20423	3445
50°	20888	3005	21170	3086
55°	21605	2668	21777	2706
60°	22250	2371	22300	2402
65°	22777	2069	22720	2036
70°	22642	1667	22571	1607
75°	21302	1284	21456	1230
80°	17721	912	18431	834
85°	10215	546	10790	419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.1	4.9
10°-20°	1226.5	13.5
20°-30°	1816.7	20.0
30°-40°	1830.4	20.2
40°-50°	1429.8	15.7
50°-60°	1104.5	12.2
60°-70°	741.5	8.2
70°-80°	378.3	4.2
80°-90°	105.2	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°	3489.2	38.4
0°-40°	5319.7	58.6
0°-60°	7854.0	86.5
0°-90°	9079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4534	4534	4534	4534	4534	
5°	4573	4700	4571	4933	4573	435
15°	4474	4062	4484	4191	4474	1265
25°	4291	3786	4297	3750	4291	1979
35°	3992	823	4000	858	3992	2501
45°	3618	800	3630	829	3618	2789
55°	3135	582	3160	590	3135	2800
65°	2462	391	2456	384	2462	2422
75°	1444	197	1454	189	1444	1510
85°	260	62	274	48	260	357
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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4569.1	4585.8	4598.2	4606.5	4610.7	4610.7	4612.8	4614.9	4641.9	4654.3	4662.6
5°	4573.3	4589.9	4614.9	4648.1	4677.2	4702.1	4722.9	4752.0	4781.1	4812.2	4822.6
7.5°	4554.6	4575.4	4625.2	4685.5	4741.6	4781.1	4808.1	4826.8	4841.3	4843.4	4853.8
10°	4538.0	4575.4	4643.9	4722.9	4793.5	4841.3	4841.3	4830.9	4845.5	4789.4	4733.3
12.5°	4508.9	4550.4	4643.9	4747.8	4814.3	4833.0	4824.7	4783.2	4698.0	4629.4	4598.2
15°	4473.6	4529.7	4646.0	4762.4	4818.5	4824.7	4745.8	4639.8	4575.4	4533.8	4481.9
17.5°	4434.1	4508.9	4648.1	4764.5	4785.2	4756.1	4606.5	4540.1	4473.6	4375.9	4305.3
20°	4396.7	4469.4	4631.5	4735.4	4747.8	4616.9	4500.6	4429.9	4317.7	4232.5	4201.4
22.5°	4338.5	4423.7	4616.9	4695.9	4648.1	4496.4	4384.2	4272.0	4170.2	4145.3	4107.9
25°	4290.7	4380.1	4583.7	4648.1	4521.4	4386.3	4255.4	4124.5	4076.7	4041.4	4008.1
27.5°	4226.3	4336.4	4540.1	4560.8	4386.3	4267.9	4076.7	4018.5	3974.9	3935.4	3920.9
30°	4155.7	4290.7	4479.8	4440.3	4274.1	4099.6	3958.3	3904.2	3873.1	3831.5	3814.9
32.5°	4074.6	4222.1	4413.3	4301.1	4153.6	3935.4	3844.0	3802.4	3760.9	3729.7	3625.8
35°	3991.5	4161.9	4334.3	4168.1	4008.1	3810.7	3729.7	3692.3	3652.8	3538.5	3430.5
37.5°	3906.3	4095.4	4238.8	4024.8	3814.9	3681.9	3613.3	3571.8	3482.4	3337.0	3283.0
40°	3808.7	4014.4	4116.2	3877.2	3646.6	3551.0	3486.6	3445.0	3243.5	3179.1	3162.5
42.5°	3711.0	3935.4	3966.6	3733.9	3507.4	3411.8	3357.8	3220.6	3083.5	3050.3	3056.5
45°	3617.5	3850.2	3802.4	3530.2	3361.9	3283.0	3191.5	3002.5	2929.7	2946.4	2950.5
47.5°	3505.3	3748.4	3630.0	3326.6	3212.3	3133.4	2929.7	2815.5	2805.1	2827.9	2840.4
50°	3384.8	3634.1	3447.1	3141.7	3050.3	2956.7	2726.1	2667.9	2680.4	2703.3	2717.8
52.5°	3272.6	3505.3	3258.0	2969.2	2890.3	2676.2	2520.4	2530.8	2551.6	2578.6	2586.9
55°	3135.4	3349.5	3056.5	2794.7	2719.9	2439.4	2368.7	2393.7	2414.4	2437.3	2453.9
57.5°	2992.1	3170.8	2817.5	2599.4	2478.8	2229.5	2235.7	2252.4	2266.9	2293.9	947.5
60°	2827.9	2967.1	2555.7	2418.6	2179.6	2063.3	2069.5	2098.6	2113.2	1180.2	652.4
62.5°	2657.5	2730.3	2318.9	2212.9	1905.4	1897.1	1926.1	1938.6	1319.4	623.3	610.9
65°	2462.2	2447.7	2086.1	1917.8	1718.4	1726.7	1757.8	1695.5	583.9	583.9	579.7
67.5°	2246.1	2158.9	1859.7	1587.5	1537.6	1556.3	1589.5	554.8	540.2	544.4	529.8
70°	1998.9	1876.3	1624.9	1344.4	1361.0	1379.7	536.1	502.8	496.6	486.2	457.1
72.5°	1737.1	1568.8	1329.8	1167.7	1178.1	739.7	469.6	453.0	432.2	411.4	380.2
75°	1444.1	1225.9	976.6	976.6	991.1	421.8	409.3	382.3	359.5	332.5	313.8
77.5°	1132.4	943.3	758.4	787.5	384.4	353.2	330.4	301.3	282.6	266.0	255.6
80°	829.1	658.7	571.4	511.1	299.2	268.0	245.2	228.6	220.2	209.9	197.4
82.5°	544.4	396.9	396.9	241.0	209.9	184.9	178.7	166.2	157.9	151.7	145.4
85°	259.7	230.6	174.5	147.5	130.9	118.4	114.3	108.0	108.0	106.0	103.9
87.5°	95.6	103.9	76.9	74.8	70.6	68.6	70.6	70.6	72.7	70.6	68.6
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):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4683.4	4700.0	4712.5	4733.3	4760.3	4783.2	4803.9	4833.0	4878.7	4891.2	4901.6
5°	4822.6	4828.9	4843.4	4860.0	4864.2	4874.6	4872.5	4885.0	4891.2	4905.8	4874.6
7.5°	4830.9	4797.7	4758.2	4722.9	4698.0	4675.1	4660.6	4683.4	4695.9	4706.3	4675.1
10°	4656.4	4616.9	4594.1	4573.3	4548.4	4513.0	4465.3	4475.6	4471.5	4471.5	4461.1
12.5°	4546.3	4490.2	4432.0	4380.1	4357.2	4355.1	4357.2	4380.1	4380.1	4378.0	4365.5
15°	4373.8	4319.8	4290.7	4278.2	4278.2	4272.0	4272.0	4296.9	4290.7	4290.7	4284.5
17.5°	4259.5	4222.1	4201.4	4186.8	4180.6	4191.0	4203.4	4213.8	4215.9	4207.6	4174.4
20°	4166.0	4130.7	4105.8	4109.9	4107.9	4114.1	4120.3	4085.0	4041.4	3983.2	3956.2
22.5°	4068.4	4041.4	4022.7	4022.7	3997.7	3958.3	3900.1	3887.6	3881.4	3854.4	3831.5
25°	3974.9	3943.7	3916.7	3833.6	3781.6	3787.9	3777.5	3756.7	3754.6	3752.6	3760.9
27.5°	3881.4	3800.3	3696.5	3684.0	3663.2	3661.1	3673.6	3684.0	3684.0	3692.3	3702.7
30°	3688.1	3594.6	3575.9	3553.1	3561.4	3590.5	3596.7	3611.3	3615.4	3630.0	3638.3
32.5°	3511.5	3470.0	3453.3	3463.7	3490.7	3515.7	3530.2	3536.5	3546.9	3559.3	3569.7
35°	3368.2	3355.7	3370.2	3393.1	3420.1	3440.9	3453.3	3465.8	3476.2	3486.6	3494.9
37.5°	3262.2	3270.5	3291.3	3320.4	3347.4	3364.0	3374.4	3388.9	3403.5	3415.9	3366.1
40°	3162.5	3183.2	3206.1	3237.3	3260.1	3276.7	3287.1	3305.8	3181.2	1439.9	789.6
42.5°	3075.2	3098.0	3114.7	3139.6	3164.5	3177.0	3085.6	1377.6	779.2	775.0	785.4
45°	2969.2	2987.9	3014.9	3033.6	3056.5	2007.2	766.7	775.0	762.6	770.9	775.0
47.5°	2861.2	2890.3	2904.8	2771.8	824.9	762.6	754.3	762.6	754.3	764.6	758.4
50°	2738.6	2773.9	1973.9	745.9	739.7	735.6	743.9	739.7	745.9	754.3	737.6
52.5°	2613.9	1618.6	723.1	718.9	723.1	718.9	733.5	723.1	725.2	716.9	696.1
55°	885.2	700.2	694.0	691.9	704.4	704.4	704.4	687.8	677.4	656.6	642.0
57.5°	677.4	677.4	675.3	677.4	673.2	669.1	650.4	635.8	621.3	592.2	583.9
60°	642.0	642.0	642.0	642.0	623.3	615.0	585.9	573.5	548.5	534.0	525.7
62.5°	613.0	608.8	590.1	583.9	563.1	540.2	523.6	511.1	486.2	477.9	471.7
65°	571.4	556.9	534.0	509.1	498.7	473.7	465.4	446.7	434.3	428.0	423.9
67.5°	502.8	482.1	463.4	446.7	428.0	419.7	409.3	394.8	386.5	382.3	378.2
70°	430.1	415.6	396.9	386.5	374.0	367.8	353.2	349.1	342.8	336.6	330.4
72.5°	359.5	351.2	342.8	328.3	324.1	320.0	305.4	297.1	288.8	280.5	276.4
75°	301.3	295.1	290.9	278.4	272.2	259.7	249.3	243.1	236.9	230.6	226.5
77.5°	247.3	243.1	230.6	222.3	218.2	207.8	203.6	205.7	201.5	193.2	189.1
80°	193.2	189.1	178.7	178.7	174.5	170.4	166.2	162.1	157.9	151.7	147.5
82.5°	147.5	143.4	139.2	135.1	130.9	128.8	126.7	122.6	118.4	114.3	112.2
85°	103.9	101.8	99.7	97.7	95.6	93.5	91.4	87.3	83.1	81.0	79.0
87.5°	70.6	68.6	66.5	64.4	62.3	60.3	58.2	56.1	51.9	49.9	47.8
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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4901.6	4912.0	4901.6	4878.7	4864.2	4858.0	4870.4	4870.4	4878.7	4889.1	4891.2
5°	4824.7	4799.8	4770.7	4741.6	4727.1	4718.7	4695.9	4700.0	4706.3	4710.4	4714.6
7.5°	4633.6	4600.3	4560.8	4523.4	4508.9	4496.4	4469.4	4469.4	4469.4	4471.5	4484.0
10°	4438.2	4423.7	4407.1	4382.1	4363.4	4357.2	4334.3	4340.6	4336.4	4342.7	4357.2
12.5°	4346.8	4330.2	4315.6	4290.7	4269.9	4261.6	4251.2	4257.5	4255.4	4265.8	4278.2
15°	4263.7	4255.4	4238.8	4220.1	4201.4	4184.7	4147.3	4134.9	4126.6	4116.2	4130.7
17.5°	4126.6	4068.4	4028.9	3999.8	3979.0	3964.5	3954.1	3954.1	3960.3	3966.6	3979.0
20°	3939.6	3922.9	3904.2	3873.1	3852.3	3844.0	3837.7	3837.7	3848.1	3856.4	3879.3
22.5°	3810.7	3808.7	3802.4	3787.9	3777.5	3777.5	3779.6	3783.7	3798.3	3810.7	3833.6
25°	3750.5	3758.8	3754.6	3746.3	3740.1	3742.2	3738.0	3742.2	3756.7	3769.2	3787.9
27.5°	3702.7	3715.2	3711.0	3698.5	3688.1	3692.3	3698.5	3694.4	3706.8	3721.4	3735.9
30°	3638.3	3640.4	3648.7	3634.1	3630.0	3636.2	3638.3	3642.4	3654.9	3665.3	3677.8
32.5°	3565.6	3582.2	3580.1	3565.6	3565.6	3571.8	3573.9	3434.6	3174.9	2734.4	2613.9
35°	3494.9	3513.6	3482.4	2936.0	2032.1	1084.6	837.4	808.3	814.5	818.7	822.8
37.5°	2584.8	1225.9	781.3	787.5	793.7	800.0	806.2	812.4	818.7	824.9	827.0
40°	777.1	775.0	781.3	789.6	795.8	800.0	808.3	814.5	820.7	827.0	829.1
42.5°	768.8	773.0	779.2	787.5	795.8	804.1	810.4	818.7	822.8	827.0	829.1
45°	764.6	773.0	781.3	787.5	793.7	797.9	802.0	804.1	802.0	802.0	806.2
47.5°	758.4	766.7	768.8	766.7	768.8	766.7	766.7	766.7	760.5	758.4	758.4
50°	735.6	735.6	731.4	723.1	721.0	718.9	714.8	712.7	704.4	702.3	702.3
52.5°	687.8	685.7	679.4	669.1	664.9	660.7	658.7	656.6	648.3	644.1	646.2
55°	631.7	627.5	621.3	608.8	606.7	602.6	600.5	598.4	590.1	594.3	588.0
57.5°	579.7	571.4	563.1	561.0	552.7	550.6	548.5	546.5	540.2	542.3	538.2
60°	517.4	515.3	511.1	502.8	502.8	500.8	500.8	496.6	492.4	490.4	490.4
62.5°	471.7	465.4	461.3	461.3	455.0	455.0	455.0	450.9	446.7	448.8	446.7
65°	421.8	419.7	417.6	413.5	413.5	411.4	411.4	407.3	401.0	403.1	398.9
67.5°	380.2	376.1	371.9	369.9	361.5	357.4	355.3	353.2	344.9	347.0	342.8
70°	328.3	322.1	317.9	313.8	307.5	303.4	303.4	299.2	293.0	295.1	290.9
72.5°	274.3	270.1	266.0	263.9	257.7	255.6	253.5	251.4	245.2	247.3	245.2
75°	228.6	228.6	226.5	224.4	218.2	211.9	207.8	205.7	201.5	203.6	199.5
77.5°	189.1	184.9	180.8	180.8	174.5	170.4	166.2	166.2	166.2	164.1	162.1
80°	147.5	143.4	143.4	141.3	137.1	133.0	130.9	130.9	128.8	128.8	126.7
82.5°	112.2	108.0	106.0	106.0	101.8	99.7	97.7	95.6	95.6	95.6	93.5
85°	79.0	74.8	72.7	72.7	68.6	66.5	66.5	64.4	64.4	62.3	62.3
87.5°	47.8	45.7	43.6	43.6	39.5	37.4	37.4	37.4	35.3	35.3	33.2
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4891.2	4891.2	4876.7	4880.8	4874.6	4882.9	4872.5	4872.5	4885.0	4885.0	4893.3
5°	4716.7	4706.3	4704.2	4700.0	4679.3	4687.6	4677.2	4666.8	4681.3	4681.3	4700.0
7.5°	4477.7	4459.0	4467.3	4454.9	4442.4	4423.7	4429.9	4421.6	4432.0	4446.6	4465.3
10°	4355.1	4338.5	4348.9	4336.4	4342.7	4315.6	4317.7	4319.8	4330.2	4334.3	4351.0
12.5°	4276.2	4272.0	4267.9	4263.7	4267.9	4253.3	4245.0	4247.1	4251.2	4253.3	4265.8
15°	4109.9	4082.9	4091.2	4062.2	4064.2	4066.3	4049.7	4066.3	4064.2	4091.2	4116.2
17.5°	3974.9	3974.9	3960.3	3947.9	3939.6	3937.5	3925.0	3933.3	3925.0	3941.6	3947.9
20°	3881.4	3879.3	3877.2	3871.0	3850.2	3852.3	3858.5	3839.8	3837.7	3835.7	3848.1
22.5°	3837.7	3839.8	3831.5	3831.5	3812.8	3817.0	3819.0	3798.3	3800.3	3794.1	3800.3
25°	3792.0	3796.2	3785.8	3785.8	3781.6	3779.6	3769.2	3773.3	3760.9	3750.5	3760.9
27.5°	3738.0	3746.3	3738.0	3742.2	3733.9	3729.7	3723.5	3719.3	3706.8	3704.8	3711.0
30°	3688.1	3692.3	3690.2	3679.8	3677.8	3665.3	3671.5	3659.1	3646.6	3648.7	3652.8
32.5°	1890.8	1805.6	1392.1	1257.1	1244.6	1290.3	1529.3	1861.7	2412.4	2946.4	3330.8
35°	824.9	824.9	824.9	822.8	822.8	820.7	818.7	816.6	814.5	812.4	810.4
37.5°	829.1	829.1	829.1	829.1	827.0	824.9	824.9	820.7	818.7	816.6	814.5
40°	831.1	833.2	833.2	833.2	831.1	831.1	829.1	824.9	822.8	818.7	814.5
42.5°	829.1	831.1	831.1	829.1	829.1	827.0	827.0	824.9	822.8	820.7	818.7
45°	802.0	804.1	800.0	800.0	797.9	797.9	797.9	797.9	797.9	800.0	800.0
47.5°	754.3	754.3	752.2	750.1	750.1	748.0	750.1	748.0	752.2	754.3	758.4
50°	698.1	698.1	694.0	691.9	691.9	691.9	691.9	694.0	696.1	700.2	704.4
52.5°	640.0	640.0	637.9	635.8	633.7	633.7	640.0	637.9	640.0	642.0	648.3
55°	583.9	585.9	581.8	581.8	579.7	579.7	579.7	581.8	583.9	585.9	592.2
57.5°	536.1	536.1	531.9	531.9	531.9	529.8	536.1	531.9	534.0	536.1	540.2
60°	488.3	486.2	486.2	484.1	484.1	484.1	488.3	486.2	486.2	488.3	492.4
62.5°	444.7	444.7	442.6	442.6	440.5	440.5	444.7	442.6	442.6	444.7	446.7
65°	394.8	394.8	392.7	390.6	396.9	390.6	396.9	392.7	396.9	398.9	403.1
67.5°	338.7	338.7	338.7	336.6	336.6	340.8	342.8	338.7	340.8	344.9	347.0
70°	288.8	288.8	286.7	286.7	286.7	290.9	293.0	288.8	290.9	293.0	297.1
72.5°	245.2	241.0	241.0	239.0	243.1	243.1	245.2	243.1	245.2	245.2	249.3
75°	201.5	197.4	197.4	197.4	201.5	199.5	201.5	199.5	201.5	201.5	203.6
77.5°	162.1	160.0	157.9	157.9	162.1	162.1	162.1	160.0	162.1	164.1	166.2
80°	126.7	124.7	122.6	122.6	126.7	126.7	126.7	128.8	126.7	128.8	130.9
82.5°	93.5	91.4	89.3	93.5	93.5	93.5	93.5	95.6	93.5	95.6	97.7
85°	62.3	60.3	58.2	62.3	62.3	62.3	62.3	64.4	62.3	64.4	66.5
87.5°	33.2	31.2	31.2	33.2	33.2	33.2	35.3	35.3	35.3	37.4	37.4
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4905.8	4912.0	4909.9	4897.4	4885.0	4870.4	4860.0	4862.1	4882.9	4889.1	4870.4
5°	4700.0	4739.5	4739.5	4766.5	4752.0	4739.5	4747.8	4793.5	4816.4	4851.7	4864.2
7.5°	4488.1	4506.8	4504.7	4531.7	4527.6	4527.6	4533.8	4594.1	4623.2	4652.3	4660.6
10°	4369.7	4388.4	4386.3	4388.4	4382.1	4367.6	4367.6	4394.6	4419.5	4434.1	4438.2
12.5°	4284.5	4294.9	4292.8	4292.8	4288.6	4276.2	4274.1	4296.9	4324.0	4342.7	4344.7
15°	4157.7	4186.8	4193.1	4220.1	4213.8	4197.2	4201.4	4220.1	4236.7	4253.3	4247.1
17.5°	3968.6	3983.2	3985.3	3995.7	3991.5	3991.5	4016.4	4085.0	4130.7	4170.2	4174.4
20°	3860.6	3871.0	3866.8	3889.7	3879.3	3877.2	3883.5	3912.5	3933.3	3952.0	3985.3
22.5°	3808.7	3817.0	3810.7	3812.8	3794.1	3777.5	3773.3	3796.2	3819.0	3844.0	3844.0
25°	3765.0	3771.3	3769.2	3765.0	3750.5	3727.6	3723.5	3727.6	3735.9	3738.0	3723.5
27.5°	3713.1	3717.2	3717.2	3719.3	3700.6	3679.8	3675.7	3671.5	3679.8	3677.8	3654.9
30°	3659.1	3652.8	3654.9	3657.0	3640.4	3621.7	3613.3	3611.3	3619.6	3617.5	3594.6
32.5°	3530.2	3578.0	3582.2	3586.3	3571.8	3555.2	3546.9	3540.6	3544.8	3542.7	3521.9
35°	808.3	822.8	1007.7	2281.5	3098.0	3430.5	3465.8	3457.5	3459.6	3459.6	3443.0
37.5°	810.4	808.3	806.2	800.0	793.7	789.6	1365.1	2911.0	3372.3	3374.4	3359.8
40°	810.4	808.3	806.2	802.0	793.7	787.5	777.1	768.8	787.5	1732.9	3170.8
42.5°	814.5	810.4	806.2	802.0	793.7	785.4	777.1	766.7	773.0	768.8	758.4
45°	802.0	800.0	800.0	797.9	793.7	785.4	775.0	762.6	756.3	762.6	752.2
47.5°	762.6	764.6	770.9	773.0	773.0	775.0	768.8	760.5	750.1	756.3	743.9
50°	708.5	712.7	714.8	725.2	729.3	737.6	739.7	739.7	737.6	745.9	737.6
52.5°	650.4	654.5	664.9	669.1	673.2	685.7	689.8	696.1	700.2	712.7	721.0
55°	594.3	596.3	600.5	608.8	615.0	625.4	631.7	637.9	648.3	654.5	679.4
57.5°	542.3	544.4	552.7	554.8	558.9	567.2	573.5	581.8	590.1	594.3	623.3
60°	492.4	494.5	500.8	502.8	504.9	513.2	519.5	525.7	531.9	536.1	556.9
62.5°	448.8	448.8	455.0	455.0	457.1	463.4	467.5	471.7	477.9	480.0	490.4
65°	405.2	407.3	411.4	411.4	413.5	417.6	419.7	421.8	428.0	428.0	436.3
67.5°	351.2	353.2	359.5	363.6	365.7	374.0	376.1	378.2	382.3	384.4	388.6
70°	299.2	301.3	307.5	309.6	311.7	317.9	322.1	328.3	334.5	340.8	344.9
72.5°	251.4	253.5	259.7	259.7	266.0	268.0	272.2	274.3	280.5	284.7	290.9
75°	205.7	207.8	214.0	214.0	220.2	222.3	224.4	226.5	230.6	234.8	239.0
77.5°	168.3	168.3	176.6	180.8	184.9	184.9	187.0	187.0	187.0	189.1	193.2
80°	133.0	133.0	139.2	143.4	147.5	147.5	149.6	151.7	153.8	153.8	155.8
82.5°	99.7	99.7	106.0	108.0	112.2	112.2	112.2	114.3	116.4	114.3	118.4
85°	68.6	68.6	72.7	74.8	79.0	79.0	79.0	81.0	83.1	81.0	83.1
87.5°	39.5	41.6	43.6	45.7	47.8	49.9	49.9	49.9	51.9	51.9	54.0
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4849.6	4824.7	4822.6	4793.5	4785.2	4787.3	4764.5	4756.1	4718.7	4710.4	4671.0
5°	4868.3	4880.8	4874.6	4872.5	4878.7	4874.6	4858.0	4849.6	4843.4	4826.8	4793.5
7.5°	4662.6	4671.0	4677.2	4704.2	4727.1	4766.5	4808.1	4835.1	4855.9	4860.0	4833.0
10°	4452.8	4492.3	4519.3	4560.8	4594.1	4616.9	4641.9	4664.7	4725.0	4785.2	4820.6
12.5°	4344.7	4355.1	4353.0	4375.9	4398.8	4459.0	4517.2	4550.4	4596.2	4623.2	4687.6
15°	4253.3	4255.4	4261.6	4278.2	4290.7	4311.5	4338.5	4388.4	4479.8	4521.4	4556.7
17.5°	4170.2	4170.2	4174.4	4188.9	4205.5	4224.2	4240.8	4261.6	4307.3	4375.9	4463.2
20°	4037.2	4095.4	4101.6	4099.6	4107.9	4143.2	4147.3	4184.7	4207.6	4234.6	4319.8
22.5°	3839.8	3875.1	3925.0	4001.9	4031.0	4047.6	4060.1	4076.7	4112.0	4143.2	4178.5
25°	3731.8	3754.6	3769.2	3792.0	3852.3	3949.9	3968.6	3987.4	4010.2	4033.1	4076.7
27.5°	3636.2	3634.1	3644.5	3665.3	3681.9	3733.9	3825.3	3898.0	3902.2	3935.4	3972.8
30°	3567.6	3555.2	3540.6	3536.5	3559.3	3586.3	3613.3	3727.6	3806.6	3823.2	3862.7
32.5°	3503.2	3482.4	3461.7	3445.0	3430.5	3453.3	3470.0	3519.8	3621.7	3717.2	3738.0
35°	3424.3	3403.5	3378.5	3359.8	3337.0	3334.9	3332.8	3380.6	3413.9	3528.2	3627.9
37.5°	3343.2	3320.4	3299.6	3278.8	3256.0	3239.3	3228.9	3241.4	3272.6	3322.4	3488.7
40°	3258.0	3231.0	3210.2	3193.6	3162.5	3150.0	3129.2	3120.9	3123.0	3166.6	3253.9
42.5°	1946.9	3104.3	3114.7	3096.0	3069.0	3052.3	3029.5	3019.1	2998.3	3019.1	3069.0
45°	750.1	758.4	2271.1	3000.4	2967.1	2946.4	2925.6	2915.2	2892.3	2875.7	2921.4
47.5°	735.6	743.9	727.2	1030.6	2832.1	2838.3	2813.4	2803.0	2780.1	2767.7	2755.2
50°	725.2	731.4	718.9	723.1	708.5	2595.2	2699.1	2686.6	2661.7	2647.2	2622.2
52.5°	714.8	714.8	706.5	696.1	691.9	694.0	2183.8	2568.2	2539.1	2524.6	2491.3
55°	681.5	685.7	694.0	677.4	673.2	671.1	664.9	2079.9	2404.0	2387.4	2358.3
57.5°	631.7	640.0	662.8	658.7	658.7	642.0	637.9	637.9	1930.3	2248.2	2219.1
60°	573.5	581.8	606.7	615.0	621.3	617.1	613.0	610.9	602.6	2034.2	2071.6
62.5°	513.2	521.5	529.8	556.9	565.2	575.6	588.0	581.8	573.5	573.5	1915.8
65°	448.8	461.3	465.4	490.4	500.8	519.5	529.8	544.4	540.2	538.2	548.5
67.5°	392.7	407.3	409.3	419.7	438.4	446.7	459.2	486.2	498.7	502.8	507.0
70°	344.9	353.2	359.5	363.6	376.1	378.2	401.0	419.7	438.4	459.2	465.4
72.5°	297.1	303.4	315.8	311.7	315.8	324.1	336.6	349.1	367.8	396.9	415.6
75°	243.1	247.3	255.6	259.7	268.0	274.3	282.6	293.0	309.6	324.1	349.1
77.5°	195.3	197.4	203.6	205.7	214.0	220.2	234.8	241.0	251.4	261.8	276.4
80°	157.9	157.9	160.0	160.0	166.2	172.5	182.8	189.1	201.5	209.9	209.9
82.5°	120.5	120.5	126.7	126.7	130.9	130.9	137.1	137.1	143.4	147.5	151.7
85°	85.2	87.3	91.4	89.3	93.5	91.4	95.6	99.7	101.8	99.7	97.7
87.5°	56.1	56.1	60.3	58.2	60.3	60.3	64.4	64.4	66.5	66.5	64.4
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4656.4	4625.2	4606.5	4583.7	4577.5	4571.2	4579.5	4579.5	4567.1	4556.7	4538.0
5°	4764.5	4731.2	4695.9	4658.5	4623.2	4585.8	4571.2	4569.1	4546.3	4533.8	4527.6
7.5°	4820.6	4803.9	4764.5	4712.5	4658.5	4592.0	4562.9	4546.3	4523.4	4519.3	4519.3
10°	4826.8	4808.1	4787.3	4749.9	4687.6	4600.3	4544.2	4511.0	4490.2	4504.7	4531.7
12.5°	4766.5	4801.9	4783.2	4758.2	4708.4	4602.4	4521.4	4471.5	4465.3	4502.7	4573.3
15°	4612.8	4716.7	4768.6	4743.7	4704.2	4598.2	4484.0	4425.8	4425.8	4502.7	4594.1
17.5°	4496.4	4577.5	4704.2	4725.0	4679.3	4589.9	4448.6	4380.1	4398.8	4511.0	4608.6
20°	4400.8	4450.7	4573.3	4689.7	4646.0	4571.2	4396.7	4326.0	4363.4	4498.5	4629.4
22.5°	4251.2	4351.0	4425.8	4598.2	4612.8	4535.9	4344.7	4259.5	4334.3	4498.5	4619.0
25°	4105.8	4226.3	4305.3	4473.6	4562.9	4492.3	4296.9	4188.9	4303.2	4492.3	4610.7
27.5°	4004.0	4060.1	4203.4	4324.0	4488.1	4434.1	4232.5	4112.0	4263.7	4459.0	4562.9
30°	3895.9	3933.3	4074.6	4188.9	4388.4	4367.6	4166.0	4026.8	4213.8	4427.8	4438.2
32.5°	3777.5	3819.0	3891.8	4058.0	4249.2	4305.3	4091.2	3941.6	4159.8	4380.1	4292.8
35°	3657.0	3688.1	3746.3	3925.0	4087.1	4211.8	3999.8	3844.0	4122.4	4307.3	4153.6
37.5°	3536.5	3569.7	3619.6	3769.2	3916.7	4124.5	3920.9	3746.3	4053.8	4178.5	4008.1
40°	3422.2	3440.9	3492.8	3586.3	3775.4	4035.1	3831.5	3644.5	3983.2	4014.4	3810.7
42.5°	3212.3	3305.8	3353.6	3428.4	3615.4	3912.5	3727.6	3536.5	3904.2	3850.2	3613.3
45°	2985.8	3189.5	3210.2	3285.0	3474.1	3781.6	3630.0	3430.5	3829.4	3708.9	3426.3
47.5°	2800.9	2948.4	3069.0	3131.3	3305.8	3627.9	3538.5	3341.1	3717.2	3530.2	3243.5
50°	2636.8	2715.7	2933.9	2979.6	3104.3	3443.0	3430.5	3237.3	3561.4	3305.8	3064.8
52.5°	2476.8	2532.9	2730.3	2827.9	2929.7	3243.5	3301.7	3135.4	3391.0	3081.4	2884.0
55°	2337.6	2356.3	2464.3	2670.0	2761.4	3041.9	3160.4	3017.0	3174.9	2867.4	2709.5
57.5°	2194.2	2177.6	2256.5	2520.4	2586.9	2836.2	3010.8	2896.5	3000.4	2649.2	2528.7
60°	2044.6	2021.7	2055.0	2229.5	2402.0	2632.6	2834.2	2763.5	2788.4	2433.1	2327.2
62.5°	1888.7	1865.9	1855.5	1965.6	2221.2	2422.7	2655.5	2616.0	2528.7	2235.7	2077.8
65°	1726.7	1703.8	1687.2	1730.8	2021.7	2150.6	2456.0	2445.6	2244.1	2028.0	1749.5
67.5°	525.7	1550.1	1514.7	1512.7	1703.8	1903.3	2239.9	2223.3	1957.3	1805.6	1506.4
70°	473.7	1257.1	1336.0	1317.3	1400.5	1651.9	1992.6	1980.2	1678.9	1448.2	1331.9
72.5°	434.3	444.7	1180.2	1159.4	1178.1	1404.6	1735.0	1701.7	1423.3	1142.8	1151.1
75°	371.9	390.6	407.3	978.7	953.7	1163.6	1454.5	1402.5	1174.0	943.3	962.0
77.5°	303.4	326.2	338.7	712.7	770.9	829.1	1161.5	1092.9	808.3	754.3	359.5
80°	226.5	245.2	266.0	284.7	585.9	579.7	862.3	793.7	563.1	469.6	280.5
82.5°	166.2	172.5	184.9	205.7	232.7	388.6	554.8	488.3	390.6	214.0	193.2
85°	103.9	112.2	118.4	124.7	141.3	232.7	274.3	218.2	164.1	130.9	122.6
87.5°	66.5	66.5	64.4	66.5	68.6	83.1	93.5	89.3	70.6	66.5	66.5
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4517.2	4488.1	4488.1	4479.8	4486.0	4486.0	4484.0	4486.0	4500.6	4508.9	4523.4
5°	4515.1	4506.8	4525.5	4548.4	4575.4	4608.6	4616.9	4646.0	4673.0	4708.4	4745.8
7.5°	4542.1	4571.2	4606.5	4643.9	4698.0	4737.4	4772.8	4808.1	4833.0	4866.3	4887.0
10°	4581.6	4639.8	4700.0	4747.8	4806.0	4839.3	4862.1	4866.3	4830.9	4774.8	4729.1
12.5°	4637.7	4706.3	4762.4	4808.1	4835.1	4822.6	4756.1	4687.6	4648.1	4589.9	4508.9
15°	4685.5	4747.8	4806.0	4787.3	4714.6	4646.0	4594.1	4513.0	4434.1	4380.1	4344.7
17.5°	4706.3	4766.5	4745.8	4648.1	4579.5	4500.6	4394.6	4332.3	4280.3	4238.8	4218.0
20°	4718.7	4708.4	4596.2	4525.5	4392.5	4319.8	4251.2	4193.1	4153.6	4132.8	4128.6
22.5°	4685.5	4558.8	4463.2	4336.4	4238.8	4178.5	4124.5	4076.7	4049.7	4033.1	4022.7
25°	4575.4	4427.8	4286.6	4186.8	4103.7	4051.8	4010.2	3970.7	3937.5	3929.2	3908.4
27.5°	4421.6	4301.1	4114.1	4037.2	3964.5	3939.6	3893.8	3854.4	3825.3	3800.3	3733.9
30°	4294.9	4103.7	3968.6	3898.0	3854.4	3825.3	3773.3	3731.8	3681.9	3590.5	3553.1
32.5°	4139.0	3949.9	3821.1	3781.6	3727.6	3702.7	3644.5	3553.1	3476.2	3438.8	3436.7
35°	3937.5	3781.6	3688.1	3652.8	3609.2	3567.6	3447.1	3364.0	3326.6	3330.8	3361.9
37.5°	3769.2	3630.0	3569.7	3519.8	3470.0	3364.0	3262.2	3222.7	3233.1	3253.9	3268.4
40°	3598.8	3492.8	3424.3	3384.8	3272.6	3168.7	3114.7	3129.2	3147.9	3162.5	3181.2
42.5°	3432.6	3357.8	3289.2	3212.3	3058.6	3002.5	3014.9	3033.6	3050.3	3071.0	3089.7
45°	3274.7	3208.2	3129.2	2954.7	2877.8	2892.3	2911.0	2925.6	2950.5	2965.1	2983.8
47.5°	3125.1	3054.4	2915.2	2761.4	2753.1	2782.2	2798.8	2817.5	2836.2	2798.8	1543.8
50°	2956.7	2884.0	2672.1	2613.9	2632.6	2659.6	2680.4	2699.1	2404.0	955.8	735.6
52.5°	2790.5	2605.6	2470.5	2487.2	2505.9	2537.0	2551.6	1895.0	754.3	718.9	721.0
55°	2605.6	2368.7	2329.2	2350.0	2366.6	2397.8	1589.5	696.1	691.9	689.8	706.5
57.5°	2314.7	2171.3	2188.0	2208.7	2225.4	1570.8	677.4	673.2	675.3	677.4	679.4
60°	2055.0	2023.8	2042.5	2061.2	1458.6	654.5	642.0	644.1	652.4	646.2	629.6
62.5°	1849.3	1874.2	1892.9	1658.1	621.3	615.0	621.3	615.0	600.5	590.1	569.3
65°	1691.4	1716.3	1730.8	583.9	581.8	590.1	583.9	563.1	540.2	511.1	504.9
67.5°	1525.1	1550.1	554.8	540.2	548.5	538.2	513.2	488.3	471.7	446.7	436.3
70°	1352.7	579.7	502.8	500.8	486.2	469.6	442.6	417.6	396.9	386.5	376.1
72.5°	976.6	459.2	453.0	436.3	411.4	388.6	365.7	351.2	340.8	334.5	328.3
75°	407.3	398.9	380.2	351.2	326.2	315.8	299.2	288.8	284.7	272.2	268.0
77.5°	340.8	324.1	297.1	276.4	261.8	255.6	243.1	230.6	224.4	222.3	214.0
80°	261.8	239.0	226.5	216.1	211.9	197.4	182.8	176.6	172.5	170.4	164.1
82.5°	178.7	170.4	162.1	147.5	147.5	141.3	135.1	130.9	126.7	126.7	122.6
85°	116.4	110.1	108.0	101.8	101.8	97.7	95.6	93.5	91.4	89.3	87.3
87.5°	66.5	66.5	68.6	66.5	66.5	64.4	62.3	60.3	58.2	58.2	54.0
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4542.1	4562.9	4567.1	4637.7	4677.2	4675.1	4662.6	4700.0	4677.2	4664.7	4677.2
5°	4783.2	4808.1	4828.9	4905.8	4932.8	4945.2	4943.2	4963.9	4947.3	4932.8	4932.8
7.5°	4901.6	4909.9	4918.2	4899.5	4887.0	4866.3	4835.1	4789.4	4766.5	4741.6	4710.4
10°	4706.3	4679.3	4689.7	4652.3	4621.1	4598.2	4569.1	4531.7	4500.6	4477.7	4442.4
12.5°	4467.3	4465.3	4469.4	4475.6	4444.5	4425.8	4402.9	4375.9	4353.0	4328.1	4299.0
15°	4321.9	4324.0	4340.6	4334.3	4324.0	4313.6	4288.6	4280.3	4259.5	4232.5	4215.9
17.5°	4218.0	4228.4	4245.0	4236.7	4220.1	4209.7	4191.0	4172.3	4153.6	4132.8	4107.9
20°	4126.6	4137.0	4147.3	4137.0	4105.8	4091.2	4066.3	4008.1	3966.6	3925.0	3887.6
22.5°	4026.8	4033.1	4024.8	3991.5	3912.5	3875.1	3846.1	3829.4	3794.1	3771.3	3748.4
25°	3902.2	3866.8	3812.8	3775.4	3744.2	3727.6	3715.2	3713.1	3708.9	3704.8	3694.4
27.5°	3698.5	3686.1	3657.0	3642.4	3644.5	3650.7	3652.8	3659.1	3652.8	3644.5	3636.2
30°	3546.9	3553.1	3555.2	3559.3	3569.7	3575.9	3578.0	3586.3	3582.2	3575.9	3571.8
32.5°	3451.3	3465.8	3474.1	3486.6	3492.8	3503.2	3503.2	3515.7	3503.2	3501.1	3497.0
35°	3372.3	3384.8	3388.9	3407.6	3413.9	3424.3	3424.3	3434.6	3424.3	3318.3	2620.1
37.5°	3293.4	3305.8	3314.1	3330.8	3332.8	3339.1	3081.4	2254.4	1454.5	1126.2	860.2
40°	3199.9	3214.4	3222.7	3228.9	2269.0	1439.9	991.1	806.2	806.2	812.4	818.7
42.5°	3100.1	3110.5	2167.2	1261.2	785.4	783.3	789.6	795.8	802.0	810.4	818.7
45°	2437.3	1230.1	781.3	762.6	768.8	777.1	785.4	793.7	804.1	812.4	816.6
47.5°	800.0	750.1	760.5	752.2	762.6	773.0	781.3	789.6	791.7	793.7	791.7
50°	739.7	739.7	745.9	745.9	754.3	758.4	758.4	758.4	750.1	748.0	741.8
52.5°	714.8	731.4	723.1	727.2	723.1	716.9	710.6	704.4	691.9	687.8	679.4
55°	702.3	708.5	687.8	681.5	673.2	656.6	648.3	640.0	629.6	625.4	615.0
57.5°	673.2	658.7	635.8	625.4	610.9	594.3	585.9	579.7	569.3	565.2	558.9
60°	619.2	590.1	575.6	563.1	546.5	531.9	525.7	521.5	513.2	511.1	504.9
62.5°	552.7	527.8	515.3	498.7	486.2	477.9	471.7	469.6	461.3	461.3	457.1
65°	480.0	467.5	457.1	440.5	434.3	426.0	423.9	421.8	417.6	415.6	411.4
67.5°	421.8	413.5	398.9	390.6	386.5	380.2	376.1	371.9	363.6	359.5	353.2
70°	369.9	363.6	349.1	342.8	334.5	324.1	317.9	313.8	307.5	303.4	297.1
72.5°	320.0	301.3	290.9	284.7	278.4	268.0	266.0	261.8	255.6	253.5	247.3
75°	257.7	243.1	236.9	232.7	226.5	220.2	220.2	220.2	214.0	211.9	209.9
77.5°	205.7	197.4	193.2	189.1	187.0	182.8	176.6	174.5	168.3	168.3	166.2
80°	157.9	153.8	149.6	147.5	145.4	141.3	137.1	135.1	128.8	128.8	126.7
82.5°	116.4	114.3	112.2	110.1	108.0	106.0	99.7	97.7	93.5	93.5	91.4
85°	83.1	81.0	76.9	74.8	74.8	72.7	66.5	64.4	60.3	60.3	60.3
87.5°	51.9	49.9	47.8	45.7	43.6	41.6	37.4	35.3	35.3	31.2	29.1
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4652.3	4687.6	4683.4	4708.4	4714.6	4727.1	4731.2	4733.3	4702.1	4727.1	4729.1
5°	4926.5	4932.8	4936.9	4947.3	4957.7	4959.8	4949.4	4936.9	4941.1	4932.8	4912.0
7.5°	4706.3	4675.1	4668.9	4660.6	4656.4	4652.3	4633.6	4650.2	4631.5	4623.2	4594.1
10°	4436.2	4407.1	4405.0	4405.0	4411.2	4409.1	4405.0	4396.7	4413.3	4402.9	4396.7
12.5°	4294.9	4284.5	4290.7	4286.6	4303.2	4307.3	4303.2	4303.2	4299.0	4290.7	4294.9
15°	4209.7	4201.4	4207.6	4201.4	4213.8	4215.9	4205.5	4211.8	4201.4	4191.0	4186.8
17.5°	4097.5	4078.8	4064.2	4043.5	4045.5	4041.4	4028.9	4028.9	4018.5	3991.5	3993.6
20°	3881.4	3862.7	3854.4	3854.4	3864.8	3868.9	3866.8	3871.0	3860.6	3856.4	3839.8
22.5°	3746.3	3744.2	3748.4	3758.8	3775.4	3798.3	3800.3	3800.3	3800.3	3798.3	3777.5
25°	3698.5	3698.5	3702.7	3717.2	3729.7	3746.3	3750.5	3754.6	3750.5	3750.5	3731.8
27.5°	3644.5	3640.4	3648.7	3663.2	3677.8	3690.2	3700.6	3702.7	3696.5	3696.5	3702.7
30°	3578.0	3575.9	3586.3	3600.9	3613.3	3625.8	3636.2	3644.5	3636.2	3636.2	3630.0
32.5°	3509.5	3509.5	3513.6	3426.3	3177.0	2861.2	2867.4	2684.6	2557.8	2397.8	2609.8
35°	2190.0	1593.7	1369.3	1159.4	1011.9	916.3	914.2	883.1	868.5	858.1	856.1
37.5°	827.0	831.1	839.4	843.6	849.8	854.0	856.1	856.1	856.1	856.1	854.0
40°	824.9	833.2	839.4	845.7	851.9	856.1	856.1	858.1	860.2	860.2	860.2
42.5°	827.0	835.3	843.6	849.8	854.0	856.1	858.1	860.2	860.2	860.2	860.2
45°	824.9	829.1	829.1	831.1	831.1	831.1	833.2	833.2	831.1	829.1	833.2
47.5°	793.7	793.7	787.5	785.4	783.3	779.2	781.3	779.2	777.1	775.0	779.2
50°	739.7	731.4	727.2	723.1	721.0	716.9	718.9	716.9	714.8	710.6	716.9
52.5°	675.3	673.2	664.9	660.7	658.7	660.7	656.6	654.5	652.4	650.4	652.4
55°	613.0	604.6	602.6	598.4	596.3	598.4	596.3	594.3	592.2	590.1	592.2
57.5°	556.9	550.6	548.5	544.4	544.4	544.4	544.4	542.3	540.2	538.2	540.2
60°	502.8	498.7	496.6	496.6	494.5	494.5	494.5	492.4	490.4	490.4	492.4
62.5°	457.1	457.1	450.9	448.8	448.8	450.9	448.8	446.7	444.7	442.6	446.7
65°	409.3	401.0	398.9	394.8	390.6	392.7	390.6	388.6	386.5	384.4	388.6
67.5°	351.2	349.1	340.8	336.6	334.5	336.6	334.5	332.5	330.4	328.3	332.5
70°	295.1	295.1	286.7	284.7	282.6	282.6	280.5	280.5	278.4	276.4	280.5
72.5°	245.2	245.2	243.1	239.0	236.9	234.8	232.7	230.6	230.6	232.7	232.7
75°	203.6	199.5	191.2	193.2	191.2	189.1	189.1	187.0	184.9	189.1	187.0
77.5°	160.0	157.9	151.7	153.8	151.7	149.6	149.6	147.5	145.4	147.5	147.5
80°	120.5	120.5	118.4	116.4	116.4	114.3	112.2	112.2	110.1	112.2	112.2
82.5°	87.3	87.3	85.2	83.1	81.0	81.0	79.0	79.0	79.0	79.0	79.0
85°	56.1	54.0	54.0	49.9	49.9	49.9	47.8	47.8	47.8	47.8	47.8
87.5°	27.0	27.0	24.9	24.9	22.9	20.8	20.8	18.7	18.7	20.8	20.8
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4691.7	4718.7	4695.9	4706.3	4708.4	4743.7	4741.6	4749.9	4735.4	4718.7	4695.9
5°	4930.7	4918.2	4901.6	4941.1	4920.3	4945.2	4953.5	4970.2	4970.2	4968.1	4949.4
7.5°	4625.2	4598.2	4619.0	4633.6	4639.8	4623.2	4656.4	4693.8	4725.0	4743.7	4745.8
10°	4386.3	4394.6	4392.5	4398.8	4413.3	4411.2	4432.0	4452.8	4461.1	4473.6	4477.7
12.5°	4274.1	4272.0	4276.2	4290.7	4299.0	4296.9	4317.7	4330.2	4334.3	4336.4	4334.3
15°	4184.7	4170.2	4180.6	4182.7	4188.9	4188.9	4213.8	4232.5	4240.8	4245.0	4240.8
17.5°	4016.4	3981.1	4014.4	4014.4	4037.2	4033.1	4072.5	4103.7	4120.3	4132.8	4132.8
20°	3850.2	3833.6	3846.1	3841.9	3858.5	3856.4	3881.4	3902.2	3916.7	3927.1	3939.6
22.5°	3783.7	3787.9	3769.2	3771.3	3771.3	3769.2	3781.6	3792.0	3796.2	3802.4	3798.3
25°	3740.1	3744.2	3738.0	3727.6	3723.5	3727.6	3733.9	3746.3	3748.4	3744.2	3729.7
27.5°	3696.5	3684.0	3694.4	3675.7	3671.5	3679.8	3688.1	3690.2	3692.3	3692.3	3679.8
30°	3630.0	3619.6	3630.0	3621.7	3613.3	3621.7	3627.9	3627.9	3632.0	3634.1	3619.6
32.5°	2537.0	2557.8	2894.4	3098.0	3384.8	3530.2	3557.2	3557.2	3561.4	3561.4	3548.9
35°	864.4	866.5	937.1	1016.1	1184.4	1392.1	1664.3	1805.6	2283.5	2854.9	3407.6
37.5°	854.0	851.9	849.8	847.8	845.7	843.6	839.4	837.4	849.8	1007.7	1367.2
40°	858.1	856.1	851.9	849.8	847.8	843.6	841.5	837.4	833.2	829.1	824.9
42.5°	858.1	856.1	854.0	851.9	849.8	847.8	843.6	839.4	835.3	829.1	822.8
45°	829.1	829.1	831.1	831.1	833.2	833.2	833.2	831.1	831.1	829.1	820.7
47.5°	775.0	775.0	781.3	781.3	785.4	789.6	789.6	793.7	800.0	804.1	806.2
50°	712.7	712.7	718.9	721.0	725.2	731.4	737.6	739.7	745.9	754.3	762.6
52.5°	650.4	650.4	656.6	656.6	660.7	667.0	673.2	675.3	683.6	691.9	702.3
55°	592.2	592.2	596.3	598.4	600.5	604.6	610.9	610.9	619.2	625.4	635.8
57.5°	540.2	544.4	544.4	544.4	546.5	550.6	554.8	554.8	561.0	567.2	575.6
60°	490.4	494.5	494.5	494.5	496.6	498.7	502.8	502.8	507.0	511.1	519.5
62.5°	444.7	448.8	448.8	450.9	450.9	453.0	457.1	455.0	459.2	461.3	467.5
65°	386.5	390.6	392.7	394.8	396.9	401.0	407.3	405.2	411.4	415.6	421.8
67.5°	330.4	334.5	334.5	336.6	338.7	342.8	347.0	347.0	353.2	357.4	365.7
70°	278.4	282.6	282.6	284.7	286.7	290.9	295.1	293.0	299.2	303.4	309.6
72.5°	230.6	234.8	234.8	236.9	236.9	241.0	245.2	249.3	249.3	253.5	257.7
75°	187.0	189.1	191.2	191.2	193.2	195.3	199.5	203.6	205.7	207.8	211.9
77.5°	147.5	149.6	151.7	151.7	153.8	155.8	157.9	166.2	170.4	172.5	172.5
80°	112.2	114.3	114.3	114.3	116.4	118.4	122.6	122.6	130.9	130.9	133.0
82.5°	79.0	81.0	81.0	81.0	83.1	87.3	89.3	91.4	95.6	97.7	97.7
85°	47.8	49.9	49.9	49.9	51.9	54.0	58.2	60.3	62.3	62.3	64.4
87.5°	18.7	20.8	22.9	22.9	24.9	27.0	29.1	31.2	33.2	33.2	35.3
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4671.0	4685.5	4671.0	4679.3	4689.7	4671.0	4627.3	4610.7	4604.5	4579.5	4562.9
5°	4930.7	4930.7	4924.5	4941.1	4939.0	4909.9	4864.2	4843.4	4822.6	4795.6	4774.8
7.5°	4745.8	4762.4	4772.8	4837.2	4878.7	4882.9	4912.0	4918.2	4926.5	4918.2	4905.8
10°	4479.8	4473.6	4502.7	4562.9	4598.2	4616.9	4673.0	4700.0	4722.9	4768.6	4816.4
12.5°	4330.2	4338.5	4351.0	4394.6	4427.8	4419.5	4442.4	4461.1	4488.1	4533.8	4602.4
15°	4230.5	4238.8	4251.2	4284.5	4305.3	4294.9	4307.3	4319.8	4338.5	4361.4	4402.9
17.5°	4122.4	4137.0	4151.5	4186.8	4205.5	4203.4	4213.8	4218.0	4224.2	4238.8	4267.9
20°	3954.1	3999.8	4028.9	4076.7	4103.7	4099.6	4118.3	4124.5	4132.8	4147.3	4159.8
22.5°	3800.3	3812.8	3827.4	3879.3	3925.0	3981.1	3993.6	4010.2	4031.0	4045.5	4058.0
25°	3713.1	3704.8	3711.0	3746.3	3771.3	3775.4	3794.1	3848.1	3904.2	3929.2	3958.3
27.5°	3661.1	3652.8	3650.7	3667.4	3671.5	3661.1	3657.0	3673.6	3715.2	3756.7	3844.0
30°	3605.0	3594.6	3586.3	3600.9	3607.1	3592.6	3565.6	3551.0	3575.9	3586.3	3621.7
32.5°	3538.5	3528.2	3524.0	3532.3	3536.5	3524.0	3494.9	3478.3	3474.1	3465.8	3474.1
35°	3463.7	3453.3	3447.1	3449.2	3457.5	3447.1	3422.2	3401.4	3391.0	3368.2	3351.5
37.5°	1784.9	2528.7	3283.0	3361.9	3370.2	3368.2	3343.2	3320.4	3310.0	3283.0	3274.7
40°	816.6	912.2	1369.3	1789.0	2580.7	3278.8	3256.0	3233.1	3214.4	3206.1	3174.9
42.5°	814.5	816.6	818.7	808.3	1001.5	1705.9	2518.3	3143.8	3131.3	3110.5	3087.7
45°	814.5	804.1	812.4	800.0	804.1	802.0	999.4	1612.4	2869.5	2998.3	2987.9
47.5°	806.2	800.0	808.3	797.9	785.4	791.7	783.3	793.7	1238.4	2100.7	2877.8
50°	768.8	773.0	787.5	785.4	775.0	783.3	768.8	781.3	770.9	845.7	1629.0
52.5°	712.7	721.0	735.6	748.0	752.2	762.6	758.4	762.6	754.3	756.3	758.4
55°	646.2	656.6	669.1	687.8	696.1	712.7	725.2	731.4	741.8	739.7	723.1
57.5°	583.9	594.3	604.6	623.3	642.0	650.4	673.2	685.7	712.7	706.5	702.3
60°	525.7	534.0	544.4	548.5	571.4	585.9	606.7	619.2	654.5	662.8	675.3
62.5°	473.7	477.9	486.2	492.4	507.0	521.5	531.9	552.7	571.4	598.4	617.1
65°	426.0	430.1	436.3	440.5	442.6	463.4	469.6	492.4	498.7	527.8	544.4
67.5°	371.9	380.2	388.6	392.7	396.9	409.3	413.5	423.9	438.4	450.9	471.7
70°	315.8	322.1	330.4	336.6	344.9	353.2	365.7	371.9	382.3	390.6	407.3
72.5°	263.9	270.1	274.3	280.5	286.7	293.0	303.4	317.9	326.2	340.8	344.9
75°	214.0	220.2	224.4	228.6	234.8	239.0	243.1	257.7	266.0	278.4	290.9
77.5°	176.6	176.6	180.8	193.2	191.2	191.2	195.3	203.6	209.9	218.2	230.6
80°	137.1	139.2	141.3	151.7	153.8	155.8	153.8	160.0	166.2	168.3	176.6
82.5°	101.8	103.9	103.9	110.1	116.4	116.4	116.4	118.4	124.7	126.7	130.9
85°	68.6	70.6	72.7	74.8	79.0	81.0	83.1	83.1	87.3	89.3	91.4
87.5°	37.4	41.6	43.6	45.7	47.8	49.9	51.9	54.0	56.1	58.2	60.3
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-LD5-93SL-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°	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8	4533.8
2.5°	4556.7	4546.3	4540.1	4523.4	4519.3	4492.3	4496.4	4492.3	4492.3	4498.5	4519.3
5°	4752.0	4702.1	4689.7	4654.3	4625.2	4575.4	4544.2	4527.6	4502.7	4492.3	4506.8
7.5°	4885.0	4847.6	4816.4	4785.2	4743.7	4685.5	4641.9	4592.0	4550.4	4511.0	4500.6
10°	4862.1	4903.7	4903.7	4885.0	4845.5	4787.3	4735.4	4673.0	4600.3	4538.0	4500.6
12.5°	4668.9	4741.6	4799.8	4843.4	4882.9	4843.4	4791.5	4741.6	4660.6	4569.1	4500.6
15°	4456.9	4531.7	4604.5	4695.9	4791.5	4830.9	4828.9	4770.7	4698.0	4602.4	4506.8
17.5°	4307.3	4359.3	4398.8	4498.5	4614.9	4716.7	4785.2	4789.4	4718.7	4633.6	4508.9
20°	4195.1	4232.5	4265.8	4321.9	4423.7	4548.4	4675.1	4745.8	4733.3	4639.8	4515.1
22.5°	4093.3	4120.3	4147.3	4188.9	4269.9	4351.0	4498.5	4643.9	4706.3	4629.4	4508.9
25°	3991.5	4020.6	4041.4	4070.5	4134.9	4201.4	4305.3	4486.0	4625.2	4621.1	4496.4
27.5°	3871.0	3910.5	3935.4	3974.9	4018.5	4068.4	4139.0	4309.4	4508.9	4579.5	4463.2
30°	3725.5	3783.7	3821.1	3864.8	3902.2	3945.8	4001.9	4105.8	4353.0	4498.5	4427.8
32.5°	3515.7	3619.6	3702.7	3744.2	3785.8	3823.2	3873.1	3960.3	4161.9	4388.4	4388.4
35°	3366.1	3413.9	3488.7	3609.2	3661.1	3698.5	3744.2	3812.8	3941.6	4257.5	4324.0
37.5°	3249.7	3268.4	3305.8	3424.3	3521.9	3582.2	3627.9	3671.5	3798.3	4078.8	4240.8
40°	3162.5	3156.2	3152.1	3208.2	3347.4	3443.0	3494.9	3538.5	3636.2	3864.8	4130.7
42.5°	3060.6	3054.4	3033.6	3048.2	3116.7	3276.7	3355.7	3403.5	3484.5	3640.4	4010.2
45°	2954.7	2944.3	2936.0	2921.4	2946.4	3035.7	3197.8	3268.4	3314.1	3453.3	3858.5
47.5°	2846.6	2832.1	2821.7	2809.2	2794.7	2836.2	2990.0	3116.7	3195.7	3283.0	3675.7
50°	2692.9	2711.6	2699.1	2684.6	2672.1	2663.8	2728.2	2936.0	3033.6	3104.3	3453.3
52.5°	1269.6	2468.5	2572.4	2557.8	2541.2	2526.6	2541.2	2699.1	2875.7	2931.8	3185.3
55°	723.1	1099.2	2287.7	2418.6	2404.0	2383.3	2370.8	2424.8	2688.7	2763.5	2940.1
57.5°	696.1	698.1	1009.8	2179.6	2260.7	2242.0	2227.4	2239.9	2464.3	2591.1	2726.1
60°	673.2	673.2	673.2	964.1	2084.1	2090.3	2071.6	2050.8	2148.5	2397.8	2510.0
62.5°	623.3	635.8	642.0	642.0	951.6	1930.3	1911.6	1905.4	1909.5	2165.1	2293.9
65°	558.9	588.0	600.5	608.8	608.8	999.4	1747.5	1737.1	1722.5	1820.2	2075.7
67.5°	488.3	517.4	544.4	561.0	563.1	581.8	1043.1	1564.6	1543.8	1545.9	1843.0
70°	415.6	440.5	469.6	494.5	517.4	527.8	544.4	1298.6	1367.2	1338.1	1579.1
72.5°	359.5	369.9	390.6	415.6	442.6	467.5	482.1	517.4	1186.4	1155.3	1201.0
75°	299.2	307.5	322.1	338.7	359.5	388.6	413.5	438.4	629.6	968.3	962.0
77.5°	232.7	247.3	263.9	274.3	284.7	305.4	338.7	363.6	388.6	654.5	770.9
80°	178.7	189.1	197.4	207.8	220.2	234.8	247.3	276.4	305.4	328.3	590.1
82.5°	133.0	139.2	145.4	149.6	153.8	162.1	184.9	195.3	214.0	234.8	278.4
85°	93.5	97.7	101.8	103.9	106.0	108.0	116.4	118.4	137.1	141.3	168.3
87.5°	60.3	62.3	66.5	68.6	68.6	70.6	72.7	72.7	72.7	68.6	83.1
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-LD5-93SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	4533.8	4533.8
2.5°	4535.9	4569.1
5°	4529.7	4573.3
7.5°	4513.0	4554.6
10°	4488.1	4538.0
12.5°	4461.1	4508.9
15°	4438.2	4473.6
17.5°	4413.3	4434.1
20°	4380.1	4396.7
22.5°	4346.8	4338.5
25°	4309.4	4290.7
27.5°	4261.6	4226.3
30°	4218.0	4155.7
32.5°	4176.4	4074.6
35°	4120.3	3991.5
37.5°	4062.2	3906.3
40°	3993.6	3808.7
42.5°	3920.9	3711.0
45°	3829.4	3617.5
47.5°	3748.4	3505.3
50°	3636.2	3384.8
52.5°	3499.1	3272.6
55°	3337.0	3135.4
57.5°	3162.5	2992.1
60°	2975.4	2827.9
62.5°	2749.0	2657.5
65°	2483.0	2462.2
67.5°	2136.0	2246.1
70°	1751.6	1998.9
72.5°	1464.9	1737.1
75°	1201.0	1444.1
77.5°	951.6	1132.4
80°	594.3	829.1
82.5°	398.9	544.4
85°	241.0	259.7
87.5°	93.5	95.6
90°	0.0	0.0

(END OF REPORT)