

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-L940-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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

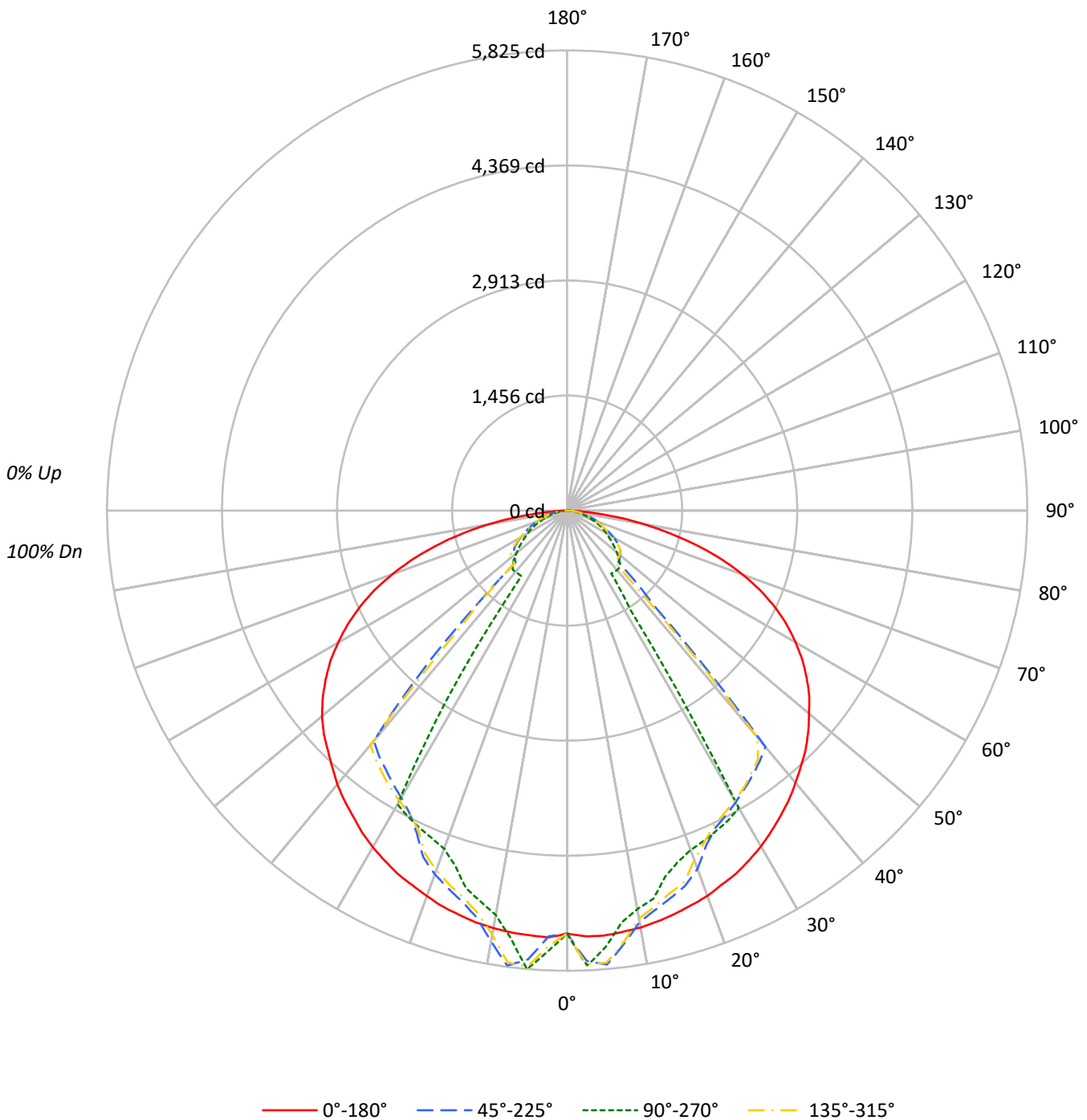
Lumens per Lamp: N/A  
Luminaire Lumens: 10721.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L940-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°	21632	21632	21632	21632
5°	21874	21795	21864	22874
10°	21925	19705	21956	20007
15°	22005	18231	22056	18810
20°	22198	17292	22198	17227
25°	22425	16961	22458	16803
30°	22690	16663	22747	16465
35°	22997	3795	23045	3958
40°	23415	3947	23556	4074
45°	24034	3924	24117	4067
50°	24665	3549	24998	3644
55°	25513	3151	25716	3195
60°	26275	2800	26332	2836
65°	26896	2443	26829	2404
70°	26737	1969	26653	1898
75°	25155	1516	25335	1452
80°	20925	1077	21765	985
85°	12064	645	12741	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.8	4.9
10°-20°	1448.3	13.5
20°-30°	2145.2	20.0
30°-40°	2161.5	20.2
40°-50°	1688.4	15.7
50°-60°	1304.2	12.2
60°-70°	875.6	8.2
70°-80°	446.7	4.2
80°-90°	124.3	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°	4120.3	38.4
0°-40°	6281.8	58.6
0°-60°	9274.4	86.5
0°-90°	10721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10721.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5354	5354	5354	5354	5354	
5°	5400	5550	5398	5825	5400	514
15°	5283	4797	5295	4949	5283	1494
25°	5067	4470	5074	4429	5067	2337
35°	4713	972	4723	1013	4713	2954
45°	4272	945	4286	979	4272	3294
55°	3702	687	3732	697	3702	3307
65°	2908	461	2900	454	2908	2860
75°	1705	233	1718	223	1705	1783
85°	307	74	324	56	307	422
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°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5395.5	5415.1	5429.9	5439.7	5444.6	5444.6	5447.0	5449.5	5481.4	5496.1	5505.9
5°	5400.4	5420.0	5449.5	5488.7	5523.1	5552.5	5577.1	5611.4	5645.8	5682.6	5694.8
7.5°	5378.3	5402.9	5461.8	5532.9	5599.2	5645.8	5677.7	5699.8	5716.9	5719.4	5731.6
10°	5358.7	5402.9	5483.8	5577.1	5660.5	5716.9	5716.9	5704.7	5721.8	5655.6	5589.3
12.5°	5324.3	5373.4	5483.8	5606.5	5685.0	5707.1	5697.3	5648.2	5547.6	5466.7	5429.9
15°	5282.6	5348.9	5486.3	5623.7	5689.9	5697.3	5604.1	5478.9	5402.9	5353.8	5292.5
17.5°	5236.0	5324.3	5488.7	5626.1	5650.7	5616.3	5439.7	5361.2	5282.6	5167.3	5083.9
20°	5191.9	5277.7	5469.1	5591.8	5606.5	5451.9	5314.5	5231.1	5098.6	4998.0	4961.2
22.5°	5123.2	5223.7	5451.9	5545.2	5488.7	5309.6	5177.1	5044.6	4924.4	4895.0	4850.8
25°	5066.7	5172.2	5412.7	5488.7	5339.1	5179.6	5025.0	4870.4	4814.0	4772.3	4733.0
27.5°	4990.7	5120.7	5361.2	5385.7	5179.6	5039.7	4814.0	4745.3	4693.8	4647.1	4630.0
30°	4907.2	5066.7	5290.0	5243.4	5047.1	4841.0	4674.1	4610.3	4573.5	4524.5	4504.8
32.5°	4811.5	4985.7	5211.5	5079.0	4904.8	4647.1	4539.2	4490.1	4441.0	4404.2	4281.6
35°	4713.4	4914.6	5118.2	4922.0	4733.0	4499.9	4404.2	4360.1	4313.5	4178.5	4050.9
37.5°	4612.8	4836.1	5005.4	4752.7	4504.8	4347.8	4266.8	4217.8	4112.3	3940.5	3876.7
40°	4497.5	4740.4	4860.6	4578.4	4306.1	4193.2	4117.2	4068.1	3830.1	3754.0	3734.4
42.5°	4382.2	4647.1	4684.0	4409.1	4141.7	4028.8	3965.0	3803.1	3641.2	3601.9	3609.3
45°	4271.7	4546.6	4490.1	4168.7	3970.0	3876.7	3768.8	3545.5	3459.6	3479.2	3484.1
47.5°	4139.3	4426.3	4286.5	3928.2	3793.3	3700.1	3459.6	3324.7	3312.4	3339.4	3354.1
50°	3996.9	4291.4	4070.6	3709.9	3601.9	3491.5	3219.1	3150.4	3165.2	3192.2	3209.3
52.5°	3864.4	4139.3	3847.3	3506.2	3413.0	3160.3	2976.2	2988.5	3013.0	3044.9	3054.8
55°	3702.5	3955.2	3609.3	3300.1	3211.8	2880.5	2797.1	2826.6	2851.1	2878.1	2897.7
57.5°	3533.2	3744.2	3327.1	3069.5	2927.2	2632.7	2640.1	2659.7	2676.9	2708.8	1118.8
60°	3339.4	3503.8	3017.9	2856.0	2573.8	2436.4	2443.8	2478.2	2495.3	1393.7	770.4
62.5°	3138.2	3224.1	2738.2	2613.1	2250.0	2240.2	2274.5	2289.2	1558.0	736.1	721.4
65°	2907.5	2890.4	2463.4	2264.7	2029.1	2039.0	2075.8	2002.2	689.5	689.5	684.6
67.5°	2652.4	2549.3	2196.0	1874.6	1815.7	1837.8	1877.0	655.1	637.9	642.8	625.7
70°	2360.4	2215.6	1918.7	1587.5	1607.1	1629.2	633.0	593.8	586.4	574.1	539.8
72.5°	2051.2	1852.5	1570.3	1378.9	1391.2	873.5	554.5	534.9	510.4	485.8	449.0
75°	1705.3	1447.6	1153.2	1153.2	1170.4	498.1	483.4	451.5	424.5	392.6	370.5
77.5°	1337.2	1113.9	895.6	929.9	453.9	417.1	390.1	355.8	333.7	314.1	301.8
80°	979.0	777.8	674.7	603.6	353.3	316.5	289.5	269.9	260.1	247.8	233.1
82.5°	642.8	468.6	468.6	284.6	247.8	218.4	211.0	196.3	186.5	179.1	171.8
85°	306.7	272.4	206.1	174.2	154.6	139.9	134.9	127.6	127.6	125.1	122.7
87.5°	112.9	122.7	90.8	88.3	83.4	81.0	83.4	83.4	85.9	83.4	81.0
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°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5530.5	5550.1	5564.8	5589.3	5621.2	5648.2	5672.8	5707.1	5761.1	5775.8	5788.1
5°	5694.8	5702.2	5719.4	5739.0	5743.9	5756.2	5753.7	5768.5	5775.8	5793.0	5756.2
7.5°	5704.7	5665.4	5618.8	5577.1	5547.6	5520.6	5503.5	5530.5	5545.2	5557.4	5520.6
10°	5498.6	5451.9	5424.9	5400.4	5371.0	5329.3	5272.8	5285.1	5280.2	5280.2	5267.9
12.5°	5368.5	5302.3	5233.6	5172.2	5145.2	5142.8	5145.2	5172.2	5172.2	5169.8	5155.0
15°	5164.9	5101.1	5066.7	5052.0	5052.0	5044.6	5044.6	5074.1	5066.7	5066.7	5059.4
17.5°	5029.9	4985.7	4961.2	4944.0	4936.7	4948.9	4963.7	4975.9	4978.4	4968.6	4929.3
20°	4919.5	4877.8	4848.3	4853.3	4850.8	4858.2	4865.5	4823.8	4772.3	4703.6	4671.7
22.5°	4804.2	4772.3	4750.2	4750.2	4720.8	4674.1	4605.4	4590.7	4583.4	4551.5	4524.5
25°	4693.8	4657.0	4625.1	4526.9	4465.6	4472.9	4460.7	4436.1	4433.7	4431.2	4441.0
27.5°	4583.4	4487.7	4365.0	4350.3	4325.7	4323.3	4338.0	4350.3	4350.3	4360.1	4372.3
30°	4355.2	4244.8	4222.7	4195.7	4205.5	4239.8	4247.2	4264.4	4269.3	4286.5	4296.3
32.5°	4146.6	4097.5	4077.9	4090.2	4122.1	4151.5	4168.7	4176.1	4188.3	4203.0	4215.3
35°	3977.3	3962.6	3979.8	4006.8	4038.7	4063.2	4077.9	4092.6	4104.9	4117.2	4127.0
37.5°	3852.2	3862.0	3886.5	3920.9	3952.8	3972.4	3984.7	4001.8	4019.0	4033.7	3974.9
40°	3734.4	3758.9	3785.9	3822.7	3849.7	3869.4	3881.6	3903.7	3756.5	1700.4	932.4
42.5°	3631.4	3658.3	3678.0	3707.4	3736.9	3751.6	3643.6	1626.7	920.1	915.2	927.5
45°	3506.2	3528.3	3560.2	3582.3	3609.3	2370.2	905.4	915.2	900.5	910.3	915.2
47.5°	3378.6	3413.0	3430.2	3273.1	974.1	900.5	890.7	900.5	890.7	902.9	895.6
50°	3233.9	3275.6	2330.9	880.8	873.5	868.6	878.4	873.5	880.8	890.7	871.0
52.5°	3086.6	1911.4	853.9	849.0	853.9	849.0	866.1	853.9	856.3	846.5	822.0
55°	1045.2	826.9	819.5	817.1	831.8	831.8	831.8	812.1	799.9	775.3	758.2
57.5°	799.9	799.9	797.4	799.9	795.0	790.1	768.0	750.8	733.6	699.3	689.5
60°	758.2	758.2	758.2	758.2	736.1	726.3	691.9	677.2	647.8	630.6	620.8
62.5°	723.8	718.9	696.8	689.5	664.9	637.9	618.3	603.6	574.1	564.3	557.0
65°	674.7	657.6	630.6	601.1	588.9	559.4	549.6	527.5	512.8	505.4	500.5
67.5°	593.8	569.2	547.2	527.5	505.4	495.6	483.4	466.2	456.4	451.5	446.6
70°	507.9	490.7	468.6	456.4	441.7	434.3	417.1	412.2	404.8	397.5	390.1
72.5°	424.5	414.7	404.8	387.7	382.8	377.9	360.7	350.9	341.1	331.2	326.3
75°	355.8	348.4	343.5	328.8	321.4	306.7	294.4	287.1	279.7	272.4	267.4
77.5°	292.0	287.1	272.4	262.5	257.6	245.4	240.5	242.9	238.0	228.2	223.3
80°	228.2	223.3	211.0	211.0	206.1	201.2	196.3	191.4	186.5	179.1	174.2
82.5°	174.2	169.3	164.4	159.5	154.6	152.1	149.7	144.8	139.9	134.9	132.5
85°	122.7	120.2	117.8	115.3	112.9	110.4	108.0	103.1	98.1	95.7	93.2
87.5°	83.4	81.0	78.5	76.1	73.6	71.2	68.7	66.2	61.3	58.9	56.4
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°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5788.1	5800.3	5788.1	5761.1	5743.9	5736.6	5751.3	5751.3	5761.1	5773.4	5775.8
5°	5697.3	5667.9	5633.5	5599.2	5582.0	5572.2	5545.2	5550.1	5557.4	5562.3	5567.3
7.5°	5471.6	5432.3	5385.7	5341.5	5324.3	5309.6	5277.7	5277.7	5277.7	5280.2	5294.9
10°	5240.9	5223.7	5204.1	5174.7	5152.6	5145.2	5118.2	5125.6	5120.7	5128.1	5145.2
12.5°	5133.0	5113.3	5096.2	5066.7	5042.2	5032.4	5020.1	5027.5	5025.0	5037.3	5052.0
15°	5034.8	5025.0	5005.4	4983.3	4961.2	4941.6	4897.4	4882.7	4872.9	4860.6	4877.8
17.5°	4872.9	4804.2	4757.6	4723.2	4698.7	4681.5	4669.2	4669.2	4676.6	4684.0	4698.7
20°	4652.1	4632.4	4610.3	4573.5	4549.0	4539.2	4531.8	4531.8	4544.1	4553.9	4580.9
22.5°	4499.9	4497.5	4490.1	4472.9	4460.7	4460.7	4463.1	4468.0	4485.2	4499.9	4526.9
25°	4428.8	4438.6	4433.7	4423.9	4416.5	4419.0	4414.1	4419.0	4436.1	4450.9	4472.9
27.5°	4372.3	4387.1	4382.2	4367.4	4355.2	4360.1	4367.4	4362.5	4377.3	4394.4	4411.6
30°	4296.3	4298.7	4308.6	4291.4	4286.5	4293.8	4296.3	4301.2	4315.9	4328.2	4342.9
32.5°	4210.4	4230.0	4227.6	4210.4	4210.4	4217.8	4220.2	4055.8	3749.1	3229.0	3086.6
35°	4127.0	4149.1	4112.3	3467.0	2399.6	1280.8	988.8	954.5	961.8	966.7	971.6
37.5°	3052.3	1447.6	922.6	929.9	937.3	944.6	952.0	959.4	966.7	974.1	976.5
40°	917.7	915.2	922.6	932.4	939.7	944.6	954.5	961.8	969.2	976.5	979.0
42.5°	907.8	912.7	920.1	929.9	939.7	949.5	956.9	966.7	971.6	976.5	979.0
45°	902.9	912.7	922.6	929.9	937.3	942.2	947.1	949.5	947.1	947.1	952.0
47.5°	895.6	905.4	907.8	905.4	907.8	905.4	905.4	905.4	898.0	895.6	895.6
50°	868.6	868.6	863.7	853.9	851.4	849.0	844.0	841.6	831.8	829.3	829.3
52.5°	812.1	809.7	802.3	790.1	785.2	780.3	777.8	775.3	765.5	760.6	763.1
55°	745.9	741.0	733.6	718.9	716.5	711.5	709.1	706.6	696.8	701.7	694.4
57.5°	684.6	674.7	664.9	662.5	652.7	650.2	647.8	645.3	637.9	640.4	635.5
60°	611.0	608.5	603.6	593.8	593.8	591.3	591.3	586.4	581.5	579.1	579.1
62.5°	557.0	549.6	544.7	544.7	537.3	537.3	537.3	532.4	527.5	530.0	527.5
65°	498.1	495.6	493.2	488.3	488.3	485.8	485.8	480.9	473.5	476.0	471.1
67.5°	449.0	444.1	439.2	436.7	426.9	422.0	419.6	417.1	407.3	409.8	404.8
70°	387.7	380.3	375.4	370.5	363.1	358.2	358.2	353.3	346.0	348.4	343.5
72.5°	323.9	319.0	314.1	311.6	304.2	301.8	299.3	296.9	289.5	292.0	289.5
75°	269.9	269.9	267.4	265.0	257.6	250.3	245.4	242.9	238.0	240.5	235.5
77.5°	223.3	218.4	213.5	213.5	206.1	201.2	196.3	196.3	196.3	193.8	191.4
80°	174.2	169.3	169.3	166.8	161.9	157.0	154.6	154.6	152.1	152.1	149.7
82.5°	132.5	127.6	125.1	125.1	120.2	117.8	115.3	112.9	112.9	112.9	110.4
85°	93.2	88.3	85.9	85.9	81.0	78.5	78.5	76.1	76.1	73.6	73.6
87.5°	56.4	54.0	51.5	51.5	46.6	44.2	44.2	44.2	41.7	41.7	39.3
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5775.8	5775.8	5758.6	5763.5	5756.2	5766.0	5753.7	5753.7	5768.5	5768.5	5778.3
5°	5569.7	5557.4	5555.0	5550.1	5525.5	5535.4	5523.1	5510.8	5528.0	5528.0	5550.1
7.5°	5287.5	5265.5	5275.3	5260.6	5245.8	5223.7	5231.1	5221.3	5233.6	5250.7	5272.8
10°	5142.8	5123.2	5135.4	5120.7	5128.1	5096.2	5098.6	5101.1	5113.3	5118.2	5137.9
12.5°	5049.5	5044.6	5039.7	5034.8	5039.7	5022.6	5012.7	5015.2	5020.1	5022.6	5037.3
15°	4853.3	4821.4	4831.2	4796.8	4799.3	4801.7	4782.1	4801.7	4799.3	4831.2	4860.6
17.5°	4693.8	4693.8	4676.6	4661.9	4652.1	4649.6	4634.9	4644.7	4634.9	4654.5	4661.9
20°	4583.4	4580.9	4578.4	4571.1	4546.6	4549.0	4556.4	4534.3	4531.8	4529.4	4544.1
22.5°	4531.8	4534.3	4524.5	4524.5	4502.4	4507.3	4509.7	4485.2	4487.7	4480.3	4487.7
25°	4477.9	4482.8	4470.5	4470.5	4465.6	4463.1	4450.9	4455.8	4441.0	4428.8	4441.0
27.5°	4414.1	4423.9	4414.1	4419.0	4409.1	4404.2	4396.9	4392.0	4377.3	4374.8	4382.2
30°	4355.2	4360.1	4357.6	4345.4	4342.9	4328.2	4335.5	4320.8	4306.1	4308.6	4313.5
32.5°	2232.8	2132.2	1643.9	1484.4	1469.7	1523.7	1805.9	2198.4	2848.6	3479.2	3933.1
35°	974.1	974.1	974.1	971.6	971.6	969.2	966.7	964.3	961.8	959.4	956.9
37.5°	979.0	979.0	979.0	979.0	976.5	974.1	974.1	969.2	966.7	964.3	961.8
40°	981.4	983.9	983.9	983.9	981.4	981.4	979.0	974.1	971.6	966.7	961.8
42.5°	979.0	981.4	981.4	979.0	979.0	976.5	976.5	974.1	971.6	969.2	966.7
45°	947.1	949.5	944.6	944.6	942.2	942.2	942.2	942.2	942.2	944.6	944.6
47.5°	890.7	890.7	888.2	885.8	885.8	883.3	885.8	883.3	888.2	890.7	895.6
50°	824.4	824.4	819.5	817.1	817.1	817.1	817.1	819.5	822.0	826.9	831.8
52.5°	755.7	755.7	753.3	750.8	748.4	748.4	755.7	753.3	755.7	758.2	765.5
55°	689.5	691.9	687.0	687.0	684.6	684.6	684.6	687.0	689.5	691.9	699.3
57.5°	633.0	633.0	628.1	628.1	628.1	625.7	633.0	628.1	630.6	633.0	637.9
60°	576.6	574.1	574.1	571.7	571.7	571.7	576.6	574.1	574.1	576.6	581.5
62.5°	525.1	525.1	522.6	522.6	520.2	520.2	525.1	522.6	522.6	525.1	527.5
65°	466.2	466.2	463.7	461.3	468.6	461.3	468.6	463.7	468.6	471.1	476.0
67.5°	399.9	399.9	399.9	397.5	397.5	402.4	404.8	399.9	402.4	407.3	409.8
70°	341.1	341.1	338.6	338.6	338.6	343.5	346.0	341.1	343.5	346.0	350.9
72.5°	289.5	284.6	284.6	282.2	287.1	287.1	289.5	287.1	289.5	289.5	294.4
75°	238.0	233.1	233.1	233.1	238.0	235.5	238.0	235.5	238.0	238.0	240.5
77.5°	191.4	188.9	186.5	186.5	191.4	191.4	191.4	188.9	191.4	193.8	196.3
80°	149.7	147.2	144.8	144.8	149.7	149.7	149.7	152.1	149.7	152.1	154.6
82.5°	110.4	108.0	105.5	110.4	110.4	110.4	110.4	112.9	110.4	112.9	115.3
85°	73.6	71.2	68.7	73.6	73.6	73.6	73.6	76.1	73.6	76.1	78.5
87.5°	39.3	36.8	36.8	39.3	39.3	39.3	41.7	41.7	41.7	44.2	44.2
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-LD5-128SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5793.0	5800.3	5797.9	5783.2	5768.5	5751.3	5739.0	5741.5	5766.0	5773.4	5751.3
5°	5550.1	5596.7	5596.7	5628.6	5611.4	5596.7	5606.5	5660.5	5687.5	5729.2	5743.9
7.5°	5299.8	5321.9	5319.4	5351.3	5346.4	5346.4	5353.8	5424.9	5459.3	5493.6	5503.5
10°	5160.0	5182.0	5179.6	5182.0	5174.7	5157.5	5157.5	5189.4	5218.8	5236.0	5240.9
12.5°	5059.4	5071.6	5069.2	5069.2	5064.3	5049.5	5047.1	5074.1	5106.0	5128.1	5130.5
15°	4909.7	4944.0	4951.4	4983.3	4975.9	4956.3	4961.2	4983.3	5002.9	5022.6	5015.2
17.5°	4686.4	4703.6	4706.0	4718.3	4713.4	4713.4	4742.8	4823.8	4877.8	4924.4	4929.3
20°	4558.8	4571.1	4566.2	4593.2	4580.9	4578.4	4585.8	4620.2	4644.7	4666.8	4706.0
22.5°	4497.5	4507.3	4499.9	4502.4	4480.3	4460.7	4455.8	4482.8	4509.7	4539.2	4539.2
25°	4446.0	4453.3	4450.9	4446.0	4428.8	4401.8	4396.9	4401.8	4411.6	4414.1	4396.9
27.5°	4384.6	4389.5	4389.5	4392.0	4369.9	4345.4	4340.4	4335.5	4345.4	4342.9	4315.9
30°	4320.8	4313.5	4315.9	4318.4	4298.7	4276.7	4266.8	4264.4	4274.2	4271.7	4244.8
32.5°	4168.7	4225.1	4230.0	4234.9	4217.8	4198.1	4188.3	4181.0	4185.9	4183.4	4158.9
35°	954.5	971.6	1190.0	2694.1	3658.3	4050.9	4092.6	4082.8	4085.3	4085.3	4065.6
37.5°	956.9	954.5	952.0	944.6	937.3	932.4	1612.0	3437.5	3982.2	3984.7	3967.5
40°	956.9	954.5	952.0	947.1	937.3	929.9	917.7	907.8	929.9	2046.3	3744.2
42.5°	961.8	956.9	952.0	947.1	937.3	927.5	917.7	905.4	912.7	907.8	895.6
45°	947.1	944.6	944.6	942.2	937.3	927.5	915.2	900.5	893.1	900.5	888.2
47.5°	900.5	902.9	910.3	912.7	912.7	915.2	907.8	898.0	885.8	893.1	878.4
50°	836.7	841.6	844.0	856.3	861.2	871.0	873.5	873.5	871.0	880.8	871.0
52.5°	768.0	772.9	785.2	790.1	795.0	809.7	814.6	822.0	826.9	841.6	851.4
55°	701.7	704.2	709.1	718.9	726.3	738.5	745.9	753.3	765.5	772.9	802.3
57.5°	640.4	642.8	652.7	655.1	660.0	669.8	677.2	687.0	696.8	701.7	736.1
60°	581.5	584.0	591.3	593.8	596.2	606.0	613.4	620.8	628.1	633.0	657.6
62.5°	530.0	530.0	537.3	537.3	539.8	547.2	552.1	557.0	564.3	566.8	579.1
65°	478.5	480.9	485.8	485.8	488.3	493.2	495.6	498.1	505.4	505.4	515.3
67.5°	414.7	417.1	424.5	429.4	431.8	441.7	444.1	446.6	451.5	453.9	458.8
70°	353.3	355.8	363.1	365.6	368.0	375.4	380.3	387.7	395.0	402.4	407.3
72.5°	296.9	299.3	306.7	306.7	314.1	316.5	321.4	323.9	331.2	336.1	343.5
75°	242.9	245.4	252.7	252.7	260.1	262.5	265.0	267.4	272.4	277.3	282.2
77.5°	198.7	198.7	208.6	213.5	218.4	218.4	220.8	220.8	220.8	223.3	228.2
80°	157.0	157.0	164.4	169.3	174.2	174.2	176.7	179.1	181.6	181.6	184.0
82.5°	117.8	117.8	125.1	127.6	132.5	132.5	132.5	134.9	137.4	134.9	139.9
85°	81.0	81.0	85.9	88.3	93.2	93.2	93.2	95.7	98.1	95.7	98.1
87.5°	46.6	49.1	51.5	54.0	56.4	58.9	58.9	58.9	61.3	61.3	63.8
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-LD5-128SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5726.7	5697.3	5694.8	5660.5	5650.7	5653.1	5626.1	5616.3	5572.2	5562.3	5515.7
5°	5748.8	5763.5	5756.2	5753.7	5761.1	5756.2	5736.6	5726.7	5719.4	5699.8	5660.5
7.5°	5505.9	5515.7	5523.1	5555.0	5582.0	5628.6	5677.7	5709.6	5734.1	5739.0	5707.1
10°	5258.1	5304.7	5336.6	5385.7	5424.9	5451.9	5481.4	5508.4	5579.5	5650.7	5692.4
12.5°	5130.5	5142.8	5140.3	5167.3	5194.3	5265.5	5334.2	5373.4	5427.4	5459.3	5535.4
15°	5022.6	5025.0	5032.4	5052.0	5066.7	5091.3	5123.2	5182.0	5290.0	5339.1	5380.8
17.5°	4924.4	4924.4	4929.3	4946.5	4966.1	4988.2	5007.8	5032.4	5086.3	5167.3	5270.4
20°	4767.4	4836.1	4843.4	4841.0	4850.8	4892.5	4897.4	4941.6	4968.6	5000.5	5101.1
22.5°	4534.3	4576.0	4634.9	4725.7	4760.0	4779.6	4794.4	4814.0	4855.7	4892.5	4934.2
25°	4406.7	4433.7	4450.9	4477.9	4549.0	4664.3	4686.4	4708.5	4735.5	4762.5	4814.0
27.5°	4293.8	4291.4	4303.6	4328.2	4347.8	4409.1	4517.1	4603.0	4607.9	4647.1	4691.3
30°	4212.9	4198.1	4181.0	4176.1	4203.0	4234.9	4266.8	4401.8	4495.0	4514.7	4561.3
32.5°	4136.8	4112.3	4087.7	4068.1	4050.9	4077.9	4097.5	4156.4	4276.7	4389.5	4414.1
35°	4043.6	4019.0	3989.6	3967.5	3940.5	3938.1	3935.6	3992.0	4031.3	4166.2	4284.0
37.5°	3947.9	3920.9	3896.3	3871.8	3844.8	3825.2	3812.9	3827.6	3864.4	3923.3	4119.6
40°	3847.3	3815.4	3790.8	3771.2	3734.4	3719.7	3695.1	3685.3	3687.8	3739.3	3842.4
42.5°	2299.0	3665.7	3678.0	3655.9	3624.0	3604.4	3577.4	3565.1	3540.6	3565.1	3624.0
45°	885.8	895.6	2681.8	3543.0	3503.8	3479.2	3454.7	3442.4	3415.4	3395.8	3449.8
47.5°	868.6	878.4	858.8	1217.0	3344.3	3351.6	3322.2	3309.9	3282.9	3268.2	3253.5
50°	856.3	863.7	849.0	853.9	836.7	3064.6	3187.2	3172.5	3143.1	3125.9	3096.5
52.5°	844.0	844.0	834.2	822.0	817.1	819.5	2578.8	3032.7	2998.3	2981.1	2941.9
55°	804.8	809.7	819.5	799.9	795.0	792.5	785.2	2456.1	2838.8	2819.2	2784.9
57.5°	745.9	755.7	782.7	777.8	777.8	758.2	753.3	753.3	2279.4	2654.8	2620.5
60°	677.2	687.0	716.5	726.3	733.6	728.7	723.8	721.4	711.5	2402.1	2446.3
62.5°	606.0	615.9	625.7	657.6	667.4	679.7	694.4	687.0	677.2	677.2	2262.2
65°	530.0	544.7	549.6	579.1	591.3	613.4	625.7	642.8	637.9	635.5	647.8
67.5°	463.7	480.9	483.4	495.6	517.7	527.5	542.2	574.1	588.9	593.8	598.7
70°	407.3	417.1	424.5	429.4	444.1	446.6	473.5	495.6	517.7	542.2	549.6
72.5°	350.9	358.2	372.9	368.0	372.9	382.8	397.5	412.2	434.3	468.6	490.7
75°	287.1	292.0	301.8	306.7	316.5	323.9	333.7	346.0	365.6	382.8	412.2
77.5°	230.6	233.1	240.5	242.9	252.7	260.1	277.3	284.6	296.9	309.2	326.3
80°	186.5	186.5	188.9	188.9	196.3	203.7	215.9	223.3	238.0	247.8	247.8
82.5°	142.3	142.3	149.7	149.7	154.6	154.6	161.9	161.9	169.3	174.2	179.1
85°	100.6	103.1	108.0	105.5	110.4	108.0	112.9	117.8	120.2	117.8	115.3
87.5°	66.2	66.2	71.2	68.7	71.2	71.2	76.1	76.1	78.5	78.5	76.1
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5498.6	5461.8	5439.7	5412.7	5405.3	5398.0	5407.8	5407.8	5393.0	5380.8	5358.7
5°	5626.1	5586.9	5545.2	5501.0	5459.3	5415.1	5398.0	5395.5	5368.5	5353.8	5346.4
7.5°	5692.4	5672.8	5626.1	5564.8	5501.0	5422.5	5388.1	5368.5	5341.5	5336.6	5336.6
10°	5699.8	5677.7	5653.1	5609.0	5535.4	5432.3	5366.1	5326.8	5302.3	5319.4	5351.3
12.5°	5628.6	5670.3	5648.2	5618.8	5559.9	5434.8	5339.1	5280.2	5272.8	5317.0	5400.4
15°	5447.0	5569.7	5631.1	5601.6	5555.0	5429.9	5294.9	5226.2	5226.2	5317.0	5424.9
17.5°	5309.6	5405.3	5555.0	5579.5	5525.5	5420.0	5253.2	5172.2	5194.3	5326.8	5442.1
20°	5196.8	5255.6	5400.4	5537.8	5486.3	5398.0	5191.9	5108.4	5152.6	5312.1	5466.7
22.5°	5020.1	5137.9	5226.2	5429.9	5447.0	5356.2	5130.5	5029.9	5118.2	5312.1	5454.4
25°	4848.3	4990.7	5083.9	5282.6	5388.1	5304.7	5074.1	4946.5	5081.4	5304.7	5444.6
27.5°	4728.1	4794.4	4963.7	5106.0	5299.8	5236.0	4998.0	4855.7	5034.8	5265.5	5388.1
30°	4600.5	4644.7	4811.5	4946.5	5182.0	5157.5	4919.5	4755.1	4975.9	5228.7	5240.9
32.5°	4460.7	4509.7	4595.6	4791.9	5017.6	5083.9	4831.2	4654.5	4912.1	5172.2	5069.2
35°	4318.4	4355.2	4423.9	4634.9	4826.3	4973.5	4723.2	4539.2	4868.0	5086.3	4904.8
37.5°	4176.1	4215.3	4274.2	4450.9	4625.1	4870.4	4630.0	4423.9	4787.0	4934.2	4733.0
40°	4041.1	4063.2	4124.5	4234.9	4458.2	4764.9	4524.5	4303.6	4703.6	4740.4	4499.9
42.5°	3793.3	3903.7	3960.1	4048.5	4269.3	4620.2	4401.8	4176.1	4610.3	4546.6	4266.8
45°	3525.8	3766.3	3790.8	3879.2	4102.4	4465.6	4286.5	4050.9	4522.0	4379.7	4046.0
47.5°	3307.5	3481.7	3624.0	3697.6	3903.7	4284.0	4178.5	3945.4	4389.5	4168.7	3830.1
50°	3113.6	3206.9	3464.5	3518.5	3665.7	4065.6	4050.9	3822.7	4205.5	3903.7	3619.1
52.5°	2924.7	2991.0	3224.1	3339.4	3459.6	3830.1	3898.8	3702.5	4004.3	3638.7	3405.6
55°	2760.3	2782.4	2910.0	3152.9	3260.9	3592.1	3732.0	3562.7	3749.1	3386.0	3199.5
57.5°	2591.0	2571.4	2664.6	2976.2	3054.8	3349.2	3555.3	3420.3	3543.0	3128.4	2986.1
60°	2414.4	2387.4	2426.6	2632.7	2836.4	3108.7	3346.7	3263.3	3292.8	2873.2	2748.1
62.5°	2230.3	2203.3	2191.1	2321.1	2622.9	2860.9	3135.7	3089.1	2986.1	2640.1	2453.6
65°	2039.0	2012.0	1992.3	2043.9	2387.4	2539.5	2900.2	2887.9	2649.9	2394.7	2065.9
67.5°	620.8	1830.4	1788.7	1786.2	2012.0	2247.5	2645.0	2625.4	2311.3	2132.2	1778.9
70°	559.4	1484.4	1577.7	1555.6	1653.7	1950.6	2353.0	2338.3	1982.5	1710.2	1572.8
72.5°	512.8	525.1	1393.7	1369.1	1391.2	1658.6	2048.8	2009.5	1680.7	1349.5	1359.3
75°	439.2	461.3	480.9	1155.7	1126.2	1374.0	1717.5	1656.2	1386.3	1113.9	1136.0
77.5°	358.2	385.2	399.9	841.6	910.3	979.0	1371.6	1290.6	954.5	890.7	424.5
80°	267.4	289.5	314.1	336.1	691.9	684.6	1018.3	937.3	664.9	554.5	331.2
82.5°	196.3	203.7	218.4	242.9	274.8	458.8	655.1	576.6	461.3	252.7	228.2
85°	122.7	132.5	139.9	147.2	166.8	274.8	323.9	257.6	193.8	154.6	144.8
87.5°	78.5	78.5	76.1	78.5	81.0	98.1	110.4	105.5	83.4	78.5	78.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5334.2	5299.8	5299.8	5290.0	5297.4	5297.4	5294.9	5297.4	5314.5	5324.3	5341.5
5°	5331.7	5321.9	5344.0	5371.0	5402.9	5442.1	5451.9	5486.3	5518.2	5559.9	5604.1
7.5°	5363.6	5398.0	5439.7	5483.8	5547.6	5594.2	5636.0	5677.7	5707.1	5746.4	5770.9
10°	5410.2	5478.9	5550.1	5606.5	5675.2	5714.5	5741.5	5746.4	5704.7	5638.4	5584.4
12.5°	5476.5	5557.4	5623.7	5677.7	5709.6	5694.8	5616.3	5535.4	5488.7	5420.0	5324.3
15°	5532.9	5606.5	5675.2	5653.1	5567.3	5486.3	5424.9	5329.3	5236.0	5172.2	5130.5
17.5°	5557.4	5628.6	5604.1	5488.7	5407.8	5314.5	5189.4	5115.8	5054.5	5005.4	4980.8
20°	5572.2	5559.9	5427.4	5344.0	5186.9	5101.1	5020.1	4951.4	4904.8	4880.2	4875.3
22.5°	5532.9	5383.2	5270.4	5120.7	5005.4	4934.2	4870.4	4814.0	4782.1	4762.5	4750.2
25°	5402.9	5228.7	5061.8	4944.0	4845.9	4784.6	4735.5	4688.9	4649.6	4639.8	4615.3
27.5°	5221.3	5079.0	4858.2	4767.4	4681.5	4652.1	4598.1	4551.5	4517.1	4487.7	4409.1
30°	5071.6	4845.9	4686.4	4603.0	4551.5	4517.1	4455.8	4406.7	4347.8	4239.8	4195.7
32.5°	4887.6	4664.3	4512.2	4465.6	4401.8	4372.3	4303.6	4195.7	4104.9	4060.7	4058.3
35°	4649.6	4465.6	4355.2	4313.5	4261.9	4212.9	4070.6	3972.4	3928.2	3933.1	3970.0
37.5°	4450.9	4286.5	4215.3	4156.4	4097.5	3972.4	3852.2	3805.6	3817.8	3842.4	3859.5
40°	4249.7	4124.5	4043.6	3996.9	3864.4	3741.8	3678.0	3695.1	3717.2	3734.4	3756.5
42.5°	4053.4	3965.0	3884.1	3793.3	3611.7	3545.5	3560.2	3582.3	3601.9	3626.4	3648.5
45°	3866.9	3788.4	3695.1	3489.0	3398.3	3415.4	3437.5	3454.7	3484.1	3501.3	3523.4
47.5°	3690.2	3606.8	3442.4	3260.9	3251.0	3285.4	3305.0	3327.1	3349.2	3305.0	1823.0
50°	3491.5	3405.6	3155.4	3086.6	3108.7	3140.6	3165.2	3187.2	2838.8	1128.7	868.6
52.5°	3295.2	3076.8	2917.4	2937.0	2959.1	2995.9	3013.0	2237.7	890.7	849.0	851.4
55°	3076.8	2797.1	2750.5	2775.0	2794.7	2831.5	1877.0	822.0	817.1	814.6	834.2
57.5°	2733.3	2564.0	2583.7	2608.2	2627.8	1854.9	799.9	795.0	797.4	799.9	802.3
60°	2426.6	2389.8	2411.9	2434.0	1722.4	772.9	758.2	760.6	770.4	763.1	743.4
62.5°	2183.7	2213.2	2235.2	1958.0	733.6	726.3	733.6	726.3	709.1	696.8	672.3
65°	1997.2	2026.7	2043.9	689.5	687.0	696.8	689.5	664.9	637.9	603.6	596.2
67.5°	1801.0	1830.4	655.1	637.9	647.8	635.5	606.0	576.6	557.0	527.5	515.3
70°	1597.3	684.6	593.8	591.3	574.1	554.5	522.6	493.2	468.6	456.4	444.1
72.5°	1153.2	542.2	534.9	515.3	485.8	458.8	431.8	414.7	402.4	395.0	387.7
75°	480.9	471.1	449.0	414.7	385.2	372.9	353.3	341.1	336.1	321.4	316.5
77.5°	402.4	382.8	350.9	326.3	309.2	301.8	287.1	272.4	265.0	262.5	252.7
80°	309.2	282.2	267.4	255.2	250.3	233.1	215.9	208.6	203.7	201.2	193.8
82.5°	211.0	201.2	191.4	174.2	174.2	166.8	159.5	154.6	149.7	149.7	144.8
85°	137.4	130.0	127.6	120.2	120.2	115.3	112.9	110.4	108.0	105.5	103.1
87.5°	78.5	78.5	81.0	78.5	78.5	76.1	73.6	71.2	68.7	68.7	63.8
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-LD5-128SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5363.6	5388.1	5393.0	5476.5	5523.1	5520.6	5505.9	5550.1	5523.1	5508.4	5523.1
5°	5648.2	5677.7	5702.2	5793.0	5824.9	5839.6	5837.2	5861.7	5842.1	5824.9	5824.9
7.5°	5788.1	5797.9	5807.7	5785.6	5770.9	5746.4	5709.6	5655.6	5628.6	5599.2	5562.3
10°	5557.4	5525.5	5537.8	5493.6	5456.8	5429.9	5395.5	5351.3	5314.5	5287.5	5245.8
12.5°	5275.3	5272.8	5277.7	5285.1	5248.3	5226.2	5199.2	5167.3	5140.3	5110.9	5076.5
15°	5103.5	5106.0	5125.6	5118.2	5106.0	5093.7	5064.3	5054.5	5029.9	4998.0	4978.4
17.5°	4980.8	4993.1	5012.7	5002.9	4983.3	4971.0	4948.9	4926.9	4904.8	4880.2	4850.8
20°	4872.9	4885.2	4897.4	4885.2	4848.3	4831.2	4801.7	4733.0	4684.0	4634.9	4590.7
22.5°	4755.1	4762.5	4752.7	4713.4	4620.2	4576.0	4541.6	4522.0	4480.3	4453.3	4426.3
25°	4607.9	4566.2	4502.4	4458.2	4421.4	4401.8	4387.1	4384.6	4379.7	4374.8	4362.5
27.5°	4367.4	4352.7	4318.4	4301.2	4303.6	4311.0	4313.5	4320.8	4313.5	4303.6	4293.8
30°	4188.3	4195.7	4198.1	4203.0	4215.3	4222.7	4225.1	4234.9	4230.0	4222.7	4217.8
32.5°	4075.5	4092.6	4102.4	4117.2	4124.5	4136.8	4136.8	4151.5	4136.8	4134.3	4129.4
35°	3982.2	3996.9	4001.8	4023.9	4031.3	4043.6	4043.6	4055.8	4043.6	3918.4	3094.0
37.5°	3889.0	3903.7	3913.5	3933.1	3935.6	3943.0	3638.7	2662.2	1717.5	1329.9	1015.8
40°	3778.6	3795.7	3805.6	3812.9	2679.3	1700.4	1170.4	952.0	952.0	959.4	966.7
42.5°	3660.8	3673.1	2559.1	1489.3	927.5	925.0	932.4	939.7	947.1	956.9	966.7
45°	2878.1	1452.5	922.6	900.5	907.8	917.7	927.5	937.3	949.5	959.4	964.3
47.5°	944.6	885.8	898.0	888.2	900.5	912.7	922.6	932.4	934.8	937.3	934.8
50°	873.5	873.5	880.8	880.8	890.7	895.6	895.6	895.6	885.8	883.3	875.9
52.5°	844.0	863.7	853.9	858.8	853.9	846.5	839.1	831.8	817.1	812.1	802.3
55°	829.3	836.7	812.1	804.8	795.0	775.3	765.5	755.7	743.4	738.5	726.3
57.5°	795.0	777.8	750.8	738.5	721.4	701.7	691.9	684.6	672.3	667.4	660.0
60°	731.2	696.8	679.7	664.9	645.3	628.1	620.8	615.9	606.0	603.6	596.2
62.5°	652.7	623.2	608.5	588.9	574.1	564.3	557.0	554.5	544.7	544.7	539.8
65°	566.8	552.1	539.8	520.2	512.8	503.0	500.5	498.1	493.2	490.7	485.8
67.5°	498.1	488.3	471.1	461.3	456.4	449.0	444.1	439.2	429.4	424.5	417.1
70°	436.7	429.4	412.2	404.8	395.0	382.8	375.4	370.5	363.1	358.2	350.9
72.5°	377.9	355.8	343.5	336.1	328.8	316.5	314.1	309.2	301.8	299.3	292.0
75°	304.2	287.1	279.7	274.8	267.4	260.1	260.1	260.1	252.7	250.3	247.8
77.5°	242.9	233.1	228.2	223.3	220.8	215.9	208.6	206.1	198.7	198.7	196.3
80°	186.5	181.6	176.7	174.2	171.8	166.8	161.9	159.5	152.1	152.1	149.7
82.5°	137.4	134.9	132.5	130.0	127.6	125.1	117.8	115.3	110.4	110.4	108.0
85°	98.1	95.7	90.8	88.3	88.3	85.9	78.5	76.1	71.2	71.2	71.2
87.5°	61.3	58.9	56.4	54.0	51.5	49.1	44.2	41.7	41.7	36.8	34.4
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5493.6	5535.4	5530.5	5559.9	5567.3	5582.0	5586.9	5589.3	5552.5	5582.0	5584.4
5°	5817.5	5824.9	5829.8	5842.1	5854.3	5856.8	5844.5	5829.8	5834.7	5824.9	5800.3
7.5°	5557.4	5520.6	5513.3	5503.5	5498.6	5493.6	5471.6	5491.2	5469.1	5459.3	5424.9
10°	5238.5	5204.1	5201.7	5201.7	5209.0	5206.6	5201.7	5191.9	5211.5	5199.2	5191.9
12.5°	5071.6	5059.4	5066.7	5061.8	5081.4	5086.3	5081.4	5081.4	5076.5	5066.7	5071.6
15°	4971.0	4961.2	4968.6	4961.2	4975.9	4978.4	4966.1	4973.5	4961.2	4948.9	4944.0
17.5°	4838.5	4816.4	4799.3	4774.7	4777.2	4772.3	4757.6	4757.6	4745.3	4713.4	4715.9
20°	4583.4	4561.3	4551.5	4551.5	4563.7	4568.6	4566.2	4571.1	4558.8	4553.9	4534.3
22.5°	4423.9	4421.4	4426.3	4438.6	4458.2	4485.2	4487.7	4487.7	4487.7	4485.2	4460.7
25°	4367.4	4367.4	4372.3	4389.5	4404.2	4423.9	4428.8	4433.7	4428.8	4428.8	4406.7
27.5°	4303.6	4298.7	4308.6	4325.7	4342.9	4357.6	4369.9	4372.3	4365.0	4365.0	4372.3
30°	4225.1	4222.7	4234.9	4252.1	4266.8	4281.6	4293.8	4303.6	4293.8	4293.8	4286.5
32.5°	4144.2	4144.2	4149.1	4046.0	3751.6	3378.6	3386.0	3170.1	3020.4	2831.5	3081.7
35°	2586.1	1881.9	1616.9	1369.1	1194.9	1082.0	1079.6	1042.8	1025.6	1013.3	1010.9
37.5°	976.5	981.4	991.3	996.2	1003.5	1008.4	1010.9	1010.9	1010.9	1010.9	1008.4
40°	974.1	983.9	991.3	998.6	1006.0	1010.9	1010.9	1013.3	1015.8	1015.8	1015.8
42.5°	976.5	986.4	996.2	1003.5	1008.4	1010.9	1013.3	1015.8	1015.8	1015.8	1015.8
45°	974.1	979.0	979.0	981.4	981.4	981.4	983.9	983.9	981.4	979.0	983.9
47.5°	937.3	937.3	929.9	927.5	925.0	920.1	922.6	920.1	917.7	915.2	920.1
50°	873.5	863.7	858.8	853.9	851.4	846.5	849.0	846.5	844.0	839.1	846.5
52.5°	797.4	795.0	785.2	780.3	777.8	780.3	775.3	772.9	770.4	768.0	770.4
55°	723.8	714.0	711.5	706.6	704.2	706.6	704.2	701.7	699.3	696.8	699.3
57.5°	657.6	650.2	647.8	642.8	642.8	642.8	642.8	640.4	637.9	635.5	637.9
60°	593.8	588.9	586.4	586.4	584.0	584.0	584.0	581.5	579.1	579.1	581.5
62.5°	539.8	539.8	532.4	530.0	530.0	532.4	530.0	527.5	525.1	522.6	527.5
65°	483.4	473.5	471.1	466.2	461.3	463.7	461.3	458.8	456.4	453.9	458.8
67.5°	414.7	412.2	402.4	397.5	395.0	397.5	395.0	392.6	390.1	387.7	392.6
70°	348.4	348.4	338.6	336.1	333.7	333.7	331.2	331.2	328.8	326.3	331.2
72.5°	289.5	289.5	287.1	282.2	279.7	277.3	274.8	272.4	272.4	274.8	274.8
75°	240.5	235.5	225.7	228.2	225.7	223.3	223.3	220.8	218.4	223.3	220.8
77.5°	188.9	186.5	179.1	181.6	179.1	176.7	176.7	174.2	171.8	174.2	174.2
80°	142.3	142.3	139.9	137.4	137.4	134.9	132.5	132.5	130.0	132.5	132.5
82.5°	103.1	103.1	100.6	98.1	95.7	95.7	93.2	93.2	93.2	93.2	93.2
85°	66.2	63.8	63.8	58.9	58.9	58.9	56.4	56.4	56.4	56.4	56.4
87.5°	31.9	31.9	29.4	29.4	27.0	24.5	24.5	22.1	22.1	24.5	24.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5540.3	5572.2	5545.2	5557.4	5559.9	5601.6	5599.2	5609.0	5591.8	5572.2	5545.2
5°	5822.4	5807.7	5788.1	5834.7	5810.2	5839.6	5849.4	5869.1	5869.1	5866.6	5844.5
7.5°	5461.8	5429.9	5454.4	5471.6	5478.9	5459.3	5498.6	5542.7	5579.5	5601.6	5604.1
10°	5179.6	5189.4	5186.9	5194.3	5211.5	5209.0	5233.6	5258.1	5267.9	5282.6	5287.5
12.5°	5047.1	5044.6	5049.5	5066.7	5076.5	5074.1	5098.6	5113.3	5118.2	5120.7	5118.2
15°	4941.6	4924.4	4936.7	4939.1	4946.5	4946.5	4975.9	4998.0	5007.8	5012.7	5007.8
17.5°	4742.8	4701.1	4740.4	4740.4	4767.4	4762.5	4809.1	4845.9	4865.5	4880.2	4880.2
20°	4546.6	4526.9	4541.6	4536.7	4556.4	4553.9	4583.4	4607.9	4625.1	4637.3	4652.1
22.5°	4468.0	4472.9	4450.9	4453.3	4453.3	4450.9	4465.6	4477.9	4482.8	4490.1	4485.2
25°	4416.5	4421.4	4414.1	4401.8	4396.9	4401.8	4409.1	4423.9	4426.3	4421.4	4404.2
27.5°	4365.0	4350.3	4362.5	4340.4	4335.5	4345.4	4355.2	4357.6	4360.1	4360.1	4345.4
30°	4286.5	4274.2	4286.5	4276.7	4266.8	4276.7	4284.0	4284.0	4288.9	4291.4	4274.2
32.5°	2995.9	3020.4	3417.9	3658.3	3996.9	4168.7	4200.6	4200.6	4205.5	4205.5	4190.8
35°	1020.7	1023.2	1106.6	1199.8	1398.6	1643.9	1965.3	2132.2	2696.5	3371.3	4023.9
37.5°	1008.4	1006.0	1003.5	1001.1	998.6	996.2	991.3	988.8	1003.5	1190.0	1614.5
40°	1013.3	1010.9	1006.0	1003.5	1001.1	996.2	993.7	988.8	983.9	979.0	974.1
42.5°	1013.3	1010.9	1008.4	1006.0	1003.5	1001.1	996.2	991.3	986.4	979.0	971.6
45°	979.0	979.0	981.4	981.4	983.9	983.9	983.9	981.4	981.4	979.0	969.2
47.5°	915.2	915.2	922.6	922.6	927.5	932.4	932.4	937.3	944.6	949.5	952.0
50°	841.6	841.6	849.0	851.4	856.3	863.7	871.0	873.5	880.8	890.7	900.5
52.5°	768.0	768.0	775.3	775.3	780.3	787.6	795.0	797.4	807.2	817.1	829.3
55°	699.3	699.3	704.2	706.6	709.1	714.0	721.4	721.4	731.2	738.5	750.8
57.5°	637.9	642.8	642.8	642.8	645.3	650.2	655.1	655.1	662.5	669.8	679.7
60°	579.1	584.0	584.0	584.0	586.4	588.9	593.8	593.8	598.7	603.6	613.4
62.5°	525.1	530.0	530.0	532.4	532.4	534.9	539.8	537.3	542.2	544.7	552.1
65°	456.4	461.3	463.7	466.2	468.6	473.5	480.9	478.5	485.8	490.7	498.1
67.5°	390.1	395.0	395.0	397.5	399.9	404.8	409.8	409.8	417.1	422.0	431.8
70°	328.8	333.7	333.7	336.1	338.6	343.5	348.4	346.0	353.3	358.2	365.6
72.5°	272.4	277.3	277.3	279.7	279.7	284.6	289.5	294.4	294.4	299.3	304.2
75°	220.8	223.3	225.7	225.7	228.2	230.6	235.5	240.5	242.9	245.4	250.3
77.5°	174.2	176.7	179.1	179.1	181.6	184.0	186.5	196.3	201.2	203.7	203.7
80°	132.5	134.9	134.9	134.9	137.4	139.9	144.8	144.8	154.6	154.6	157.0
82.5°	93.2	95.7	95.7	95.7	98.1	103.1	105.5	108.0	112.9	115.3	115.3
85°	56.4	58.9	58.9	58.9	61.3	63.8	68.7	71.2	73.6	73.6	76.1
87.5°	22.1	24.5	27.0	27.0	29.4	31.9	34.4	36.8	39.3	39.3	41.7
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5515.7	5532.9	5515.7	5525.5	5537.8	5515.7	5464.2	5444.6	5437.2	5407.8	5388.1
5°	5822.4	5822.4	5815.1	5834.7	5832.2	5797.9	5743.9	5719.4	5694.8	5662.9	5638.4
7.5°	5604.1	5623.7	5636.0	5712.0	5761.1	5766.0	5800.3	5807.7	5817.5	5807.7	5793.0
10°	5290.0	5282.6	5317.0	5388.1	5429.9	5451.9	5518.2	5550.1	5577.1	5631.1	5687.5
12.5°	5113.3	5123.2	5137.9	5189.4	5228.7	5218.8	5245.8	5267.9	5299.8	5353.8	5434.8
15°	4995.6	5005.4	5020.1	5059.4	5083.9	5071.6	5086.3	5101.1	5123.2	5150.1	5199.2
17.5°	4868.0	4885.2	4902.3	4944.0	4966.1	4963.7	4975.9	4980.8	4988.2	5005.4	5039.7
20°	4669.2	4723.2	4757.6	4814.0	4845.9	4841.0	4863.1	4870.4	4880.2	4897.4	4912.1
22.5°	4487.7	4502.4	4519.6	4580.9	4634.9	4701.1	4715.9	4735.5	4760.0	4777.2	4791.9
25°	4384.6	4374.8	4382.2	4423.9	4453.3	4458.2	4480.3	4544.1	4610.3	4639.8	4674.1
27.5°	4323.3	4313.5	4311.0	4330.6	4335.5	4323.3	4318.4	4338.0	4387.1	4436.1	4539.2
30°	4257.0	4244.8	4234.9	4252.1	4259.5	4242.3	4210.4	4193.2	4222.7	4234.9	4276.7
32.5°	4178.5	4166.2	4161.3	4171.1	4176.1	4161.3	4127.0	4107.4	4102.4	4092.6	4102.4
35°	4090.2	4077.9	4070.6	4073.0	4082.8	4070.6	4041.1	4016.6	4004.3	3977.3	3957.7
37.5°	2107.7	2986.1	3876.7	3970.0	3979.8	3977.3	3947.9	3920.9	3908.6	3876.7	3866.9
40°	964.3	1077.1	1616.9	2112.6	3047.4	3871.8	3844.8	3817.8	3795.7	3785.9	3749.1
42.5°	961.8	964.3	966.7	954.5	1182.6	2014.4	2973.8	3712.3	3697.6	3673.1	3646.1
45°	961.8	949.5	959.4	944.6	949.5	947.1	1180.2	1904.0	3388.4	3540.6	3528.3
47.5°	952.0	944.6	954.5	942.2	927.5	934.8	925.0	937.3	1462.4	2480.6	3398.3
50°	907.8	912.7	929.9	927.5	915.2	925.0	907.8	922.6	910.3	998.6	1923.6
52.5°	841.6	851.4	868.6	883.3	888.2	900.5	895.6	900.5	890.7	893.1	895.6
55°	763.1	775.3	790.1	812.1	822.0	841.6	856.3	863.7	875.9	873.5	853.9
57.5°	689.5	701.7	714.0	736.1	758.2	768.0	795.0	809.7	841.6	834.2	829.3
60°	620.8	630.6	642.8	647.8	674.7	691.9	716.5	731.2	772.9	782.7	797.4
62.5°	559.4	564.3	574.1	581.5	598.7	615.9	628.1	652.7	674.7	706.6	728.7
65°	503.0	507.9	515.3	520.2	522.6	547.2	554.5	581.5	588.9	623.2	642.8
67.5°	439.2	449.0	458.8	463.7	468.6	483.4	488.3	500.5	517.7	532.4	557.0
70°	372.9	380.3	390.1	397.5	407.3	417.1	431.8	439.2	451.5	461.3	480.9
72.5°	311.6	319.0	323.9	331.2	338.6	346.0	358.2	375.4	385.2	402.4	407.3
75°	252.7	260.1	265.0	269.9	277.3	282.2	287.1	304.2	314.1	328.8	343.5
77.5°	208.6	208.6	213.5	228.2	225.7	225.7	230.6	240.5	247.8	257.6	272.4
80°	161.9	164.4	166.8	179.1	181.6	184.0	181.6	188.9	196.3	198.7	208.6
82.5°	120.2	122.7	122.7	130.0	137.4	137.4	137.4	139.9	147.2	149.7	154.6
85°	81.0	83.4	85.9	88.3	93.2	95.7	98.1	98.1	103.1	105.5	108.0
87.5°	44.2	49.1	51.5	54.0	56.4	58.9	61.3	63.8	66.2	68.7	71.2
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-LD5-128SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8	5353.8
2.5°	5380.8	5368.5	5361.2	5341.5	5336.6	5304.7	5309.6	5304.7	5304.7	5312.1	5336.6
5°	5611.4	5552.5	5537.8	5496.1	5461.8	5402.9	5366.1	5346.4	5317.0	5304.7	5321.9
7.5°	5768.5	5724.3	5687.5	5650.7	5601.6	5532.9	5481.4	5422.5	5373.4	5326.8	5314.5
10°	5741.5	5790.5	5790.5	5768.5	5721.8	5653.1	5591.8	5518.2	5432.3	5358.7	5314.5
12.5°	5513.3	5599.2	5667.9	5719.4	5766.0	5719.4	5658.0	5599.2	5503.5	5395.5	5314.5
15°	5263.0	5351.3	5437.2	5545.2	5658.0	5704.7	5702.2	5633.5	5547.6	5434.8	5321.9
17.5°	5086.3	5147.7	5194.3	5312.1	5449.5	5569.7	5650.7	5655.6	5572.2	5471.6	5324.3
20°	4953.9	4998.0	5037.3	5103.5	5223.7	5371.0	5520.6	5604.1	5589.3	5478.9	5331.7
22.5°	4833.6	4865.5	4897.4	4946.5	5042.2	5137.9	5312.1	5483.8	5557.4	5466.7	5324.3
25°	4713.4	4747.7	4772.3	4806.6	4882.7	4961.2	5083.9	5297.4	5461.8	5456.8	5309.6
27.5°	4571.1	4617.7	4647.1	4693.8	4745.3	4804.2	4887.6	5088.8	5324.3	5407.8	5270.4
30°	4399.3	4468.0	4512.2	4563.7	4607.9	4659.4	4725.7	4848.3	5140.3	5312.1	5228.7
32.5°	4151.5	4274.2	4372.3	4421.4	4470.5	4514.7	4573.5	4676.6	4914.6	5182.0	5182.0
35°	3974.9	4031.3	4119.6	4261.9	4323.3	4367.4	4421.4	4502.4	4654.5	5027.5	5106.0
37.5°	3837.5	3859.5	3903.7	4043.6	4158.9	4230.0	4284.0	4335.5	4485.2	4816.4	5007.8
40°	3734.4	3727.0	3722.1	3788.4	3952.8	4065.6	4127.0	4178.5	4293.8	4563.7	4877.8
42.5°	3614.2	3606.8	3582.3	3599.5	3680.4	3869.4	3962.6	4019.0	4114.7	4298.7	4735.5
45°	3489.0	3476.8	3467.0	3449.8	3479.2	3584.7	3776.1	3859.5	3913.5	4077.9	4556.4
47.5°	3361.5	3344.3	3332.0	3317.3	3300.1	3349.2	3530.8	3680.4	3773.7	3876.7	4340.4
50°	3179.9	3202.0	3187.2	3170.1	3155.4	3145.5	3221.6	3467.0	3582.3	3665.7	4077.9
52.5°	1499.2	2914.9	3037.6	3020.4	3000.8	2983.6	3000.8	3187.2	3395.8	3462.1	3761.4
55°	853.9	1298.0	2701.4	2856.0	2838.8	2814.3	2799.6	2863.4	3175.0	3263.3	3471.9
57.5°	822.0	824.4	1192.5	2573.8	2669.5	2647.5	2630.3	2645.0	2910.0	3059.7	3219.1
60°	795.0	795.0	795.0	1138.5	2461.0	2468.3	2446.3	2421.7	2537.0	2831.5	2964.0
62.5°	736.1	750.8	758.2	758.2	1123.8	2279.4	2257.3	2250.0	2254.9	2556.7	2708.8
65°	660.0	694.4	709.1	718.9	718.9	1180.2	2063.5	2051.2	2034.0	2149.4	2451.2
67.5°	576.6	611.0	642.8	662.5	664.9	687.0	1231.7	1847.6	1823.0	1825.5	2176.4
70°	490.7	520.2	554.5	584.0	611.0	623.2	642.8	1533.5	1614.5	1580.1	1864.7
72.5°	424.5	436.7	461.3	490.7	522.6	552.1	569.2	611.0	1401.0	1364.2	1418.2
75°	353.3	363.1	380.3	399.9	424.5	458.8	488.3	517.7	743.4	1143.4	1136.0
77.5°	274.8	292.0	311.6	323.9	336.1	360.7	399.9	429.4	458.8	772.9	910.3
80°	211.0	223.3	233.1	245.4	260.1	277.3	292.0	326.3	360.7	387.7	696.8
82.5°	157.0	164.4	171.8	176.7	181.6	191.4	218.4	230.6	252.7	277.3	328.8
85°	110.4	115.3	120.2	122.7	125.1	127.6	137.4	139.9	161.9	166.8	198.7
87.5°	71.2	73.6	78.5	81.0	81.0	83.4	85.9	85.9	85.9	81.0	98.1
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	5353.8	5353.8
2.5°	5356.2	5395.5
5°	5348.9	5400.4
7.5°	5329.3	5378.3
10°	5299.8	5358.7
12.5°	5267.9	5324.3
15°	5240.9	5282.6
17.5°	5211.5	5236.0
20°	5172.2	5191.9
22.5°	5133.0	5123.2
25°	5088.8	5066.7
27.5°	5032.4	4990.7
30°	4980.8	4907.2
32.5°	4931.8	4811.5
35°	4865.5	4713.4
37.5°	4796.8	4612.8
40°	4715.9	4497.5
42.5°	4630.0	4382.2
45°	4522.0	4271.7
47.5°	4426.3	4139.3
50°	4293.8	3996.9
52.5°	4131.9	3864.4
55°	3940.5	3702.5
57.5°	3734.4	3533.2
60°	3513.6	3339.4
62.5°	3246.1	3138.2
65°	2932.1	2907.5
67.5°	2522.3	2652.4
70°	2068.4	2360.4
72.5°	1729.8	2051.2
75°	1418.2	1705.3
77.5°	1123.8	1337.2
80°	701.7	979.0
82.5°	471.1	642.8
85°	284.6	306.7
87.5°	110.4	112.9
90°	0.0	0.0

(END OF REPORT)