

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-LD5-136SL-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-LD5-136SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

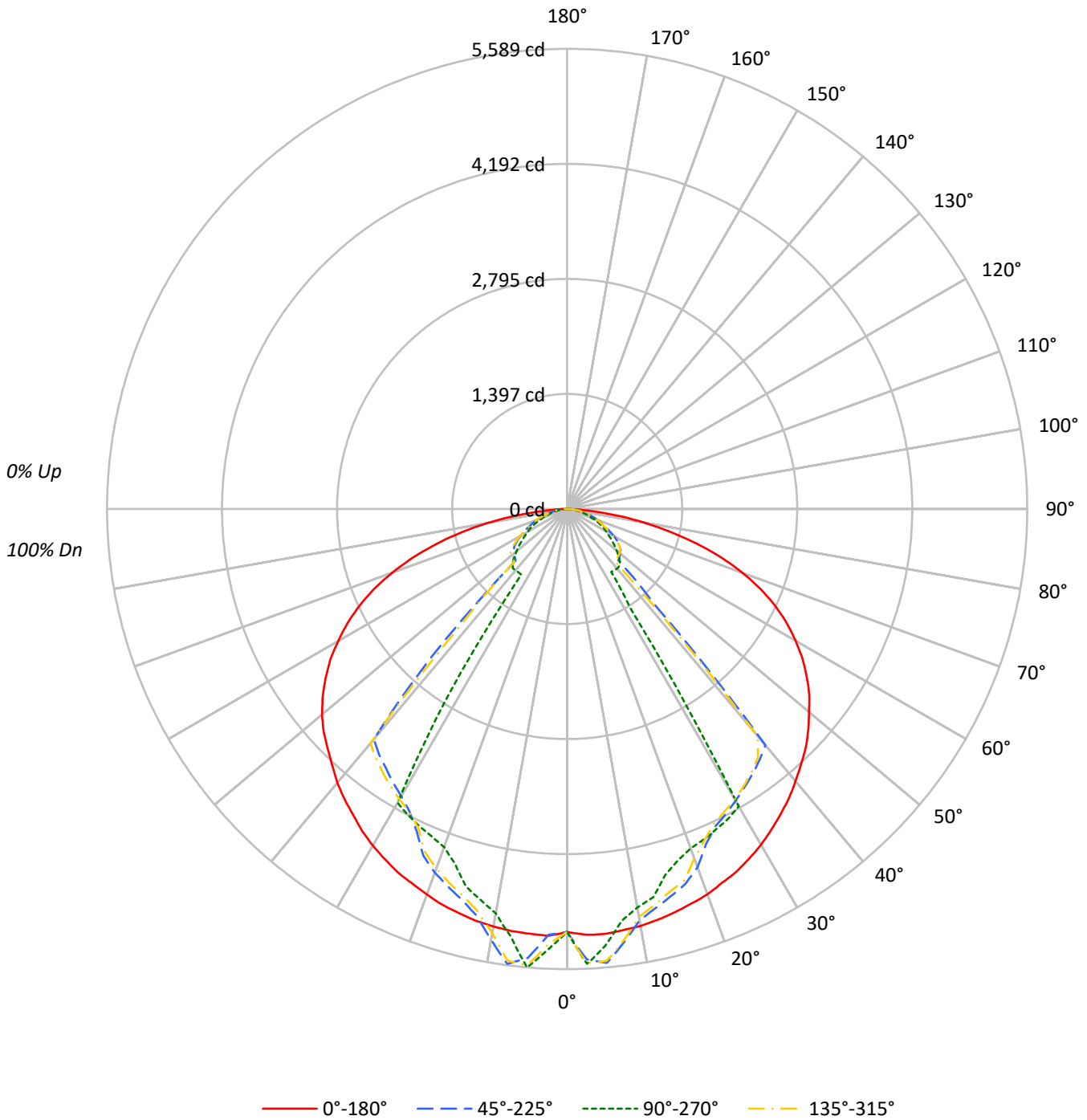
Lumens per Lamp: N/A
Luminaire Lumens: 10287.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 110
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#
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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°	20756	20756	20756	20756
5°	20988	20913	20979	21948
10°	21038	18907	21067	19197
15°	21115	17493	21164	18048
20°	21299	16592	21299	16530
25°	21517	16275	21549	16123
30°	21772	15988	21826	15798
35°	22067	3641	22112	3798
40°	22467	3787	22602	3910
45°	23061	3766	23140	3903
50°	23666	3405	23986	3497
55°	24480	3023	24675	3066
60°	25211	2686	25267	2721
65°	25808	2344	25743	2307
70°	25654	1890	25575	1821
75°	24136	1455	24310	1393
80°	20079	1033	20883	945
85°	11576	619	12225	474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.4	4.9
10°-20°	1389.7	13.5
20°-30°	2058.4	20.0
30°-40°	2074.0	20.2
40°-50°	1620.1	15.7
50°-60°	1251.4	12.2
60°-70°	840.2	8.2
70°-80°	428.6	4.2
80°-90°	119.2	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°	3953.5	38.4
0°-40°	6027.5	58.6
0°-60°	8899.0	86.5
0°-90°	10287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10287.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5137	5137	5137	5137	5137	
5°	5182	5325	5179	5589	5182	493
15°	5069	4603	5081	4749	5069	1434
25°	4862	4290	4869	4250	4862	2243
35°	4523	932	4532	972	4523	2834
45°	4099	906	4113	939	4099	3161
55°	3553	659	3581	669	3553	3173
65°	2790	443	2783	436	2790	2744
75°	1636	224	1648	214	1636	1711
85°	294	71	311	54	294	405
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5177.1	5195.9	5210.0	5219.5	5224.2	5224.2	5226.5	5228.9	5259.5	5273.6	5283.0
5°	5181.8	5200.6	5228.9	5266.5	5299.5	5327.8	5351.3	5384.3	5417.2	5452.5	5464.3
7.5°	5160.6	5184.1	5240.7	5308.9	5372.5	5417.2	5447.8	5469.0	5485.5	5487.9	5499.6
10°	5141.8	5184.1	5261.8	5351.3	5431.3	5485.5	5485.5	5473.7	5490.2	5426.6	5363.1
12.5°	5108.8	5155.9	5261.8	5379.6	5454.9	5476.1	5466.7	5419.6	5323.1	5245.4	5210.0
15°	5068.8	5132.4	5264.2	5396.0	5459.6	5466.7	5377.2	5257.1	5184.1	5137.1	5078.2
17.5°	5024.1	5108.8	5266.5	5398.4	5421.9	5389.0	5219.5	5144.1	5068.8	4958.1	4878.1
20°	4981.7	5064.1	5247.7	5365.4	5379.6	5231.2	5099.4	5019.3	4892.2	4795.7	4760.4
22.5°	4915.8	5012.3	5231.2	5320.7	5266.5	5094.7	4967.6	4840.4	4725.1	4696.8	4654.4
25°	4861.6	4962.8	5193.6	5266.5	5122.9	4969.9	4821.6	4673.3	4619.1	4579.1	4541.4
27.5°	4788.6	4913.4	5144.1	5167.7	4969.9	4835.7	4619.1	4553.2	4503.8	4459.0	4442.5
30°	4708.6	4861.6	5075.9	5031.1	4842.8	4645.0	4484.9	4423.7	4388.4	4341.3	4322.5
32.5°	4616.8	4783.9	5000.5	4873.4	4706.2	4459.0	4355.4	4308.4	4261.3	4226.0	4108.2
35°	4522.6	4715.6	4911.1	4722.7	4541.4	4317.8	4226.0	4183.6	4138.8	4009.4	3886.9
37.5°	4426.1	4640.3	4802.8	4560.3	4322.5	4171.8	4094.1	4047.0	3945.8	3781.0	3719.8
40°	4315.4	4548.5	4663.9	4393.1	4131.8	4023.5	3950.5	3903.4	3675.0	3602.1	3583.2
42.5°	4204.8	4459.0	4494.3	4230.7	3974.0	3865.7	3804.5	3649.2	3493.8	3456.1	3463.2
45°	4098.8	4362.5	4308.4	3999.9	3809.2	3719.8	3616.2	3402.0	3319.6	3338.4	3343.1
47.5°	3971.7	4247.1	4112.9	3769.2	3639.7	3550.3	3319.6	3190.1	3178.3	3204.2	3218.3
50°	3835.1	4117.7	3905.8	3559.7	3456.1	3350.2	3088.8	3022.9	3037.0	3062.9	3079.4
52.5°	3708.0	3971.7	3691.5	3364.3	3274.8	3032.3	2855.8	2867.5	2891.1	2921.7	2931.1
55°	3552.6	3795.1	3463.2	3166.5	3081.8	2763.9	2683.9	2712.1	2735.7	2761.6	2780.4
57.5°	3390.2	3592.6	3192.4	2945.2	2808.7	2526.2	2533.2	2552.1	2568.5	2599.1	1073.6
60°	3204.2	3361.9	2895.8	2740.4	2469.7	2337.8	2344.9	2377.8	2394.3	1337.2	739.2
62.5°	3011.1	3093.5	2627.4	2507.3	2158.9	2149.5	2182.4	2196.6	1495.0	706.3	692.2
65°	2789.8	2773.4	2363.7	2173.0	1947.0	1956.4	1991.7	1921.1	661.6	661.6	656.8
67.5°	2545.0	2446.1	2107.1	1798.7	1742.2	1763.4	1801.0	628.6	612.1	616.8	600.3
70°	2264.8	2125.9	1841.1	1523.2	1542.1	1563.2	607.4	569.7	562.7	550.9	517.9
72.5°	1968.2	1777.5	1506.7	1323.1	1334.9	838.1	532.1	513.2	489.7	466.1	430.8
75°	1636.2	1389.0	1106.5	1106.5	1123.0	477.9	463.8	433.2	407.3	376.7	355.5
77.5°	1283.1	1068.8	859.3	892.3	435.5	400.2	374.3	341.4	320.2	301.3	289.6
80°	939.4	746.3	647.4	579.2	339.0	303.7	277.8	259.0	249.6	237.8	223.7
82.5°	616.8	449.7	449.7	273.1	237.8	209.5	202.5	188.3	178.9	171.9	164.8
85°	294.3	261.3	197.8	167.2	148.3	134.2	129.5	122.4	122.4	120.1	117.7
87.5°	108.3	117.7	87.1	84.8	80.0	77.7	80.0	80.0	82.4	80.0	77.7
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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5306.6	5325.4	5339.5	5363.1	5393.7	5419.6	5443.1	5476.1	5527.9	5542.0	5553.8
5°	5464.3	5471.4	5487.9	5506.7	5511.4	5523.2	5520.8	5534.9	5542.0	5558.5	5523.2
7.5°	5473.7	5436.1	5391.3	5351.3	5323.1	5297.2	5280.7	5306.6	5320.7	5332.5	5297.2
10°	5276.0	5231.2	5205.3	5181.8	5153.5	5113.5	5059.4	5071.1	5066.4	5066.4	5054.7
12.5°	5151.2	5087.6	5021.7	4962.8	4936.9	4934.6	4936.9	4962.8	4962.8	4960.5	4946.4
15°	4955.8	4894.6	4861.6	4847.5	4847.5	4840.4	4840.4	4868.7	4861.6	4861.6	4854.5
17.5°	4826.3	4783.9	4760.4	4743.9	4736.8	4748.6	4762.7	4774.5	4776.9	4767.4	4729.8
20°	4720.4	4680.3	4652.1	4656.8	4654.4	4661.5	4668.6	4628.5	4579.1	4513.2	4482.6
22.5°	4609.7	4579.1	4557.9	4557.9	4529.7	4484.9	4419.0	4404.9	4397.8	4367.2	4341.3
25°	4503.8	4468.4	4437.8	4343.7	4284.8	4291.9	4280.1	4256.6	4254.2	4251.8	4261.3
27.5°	4397.8	4306.0	4188.3	4174.2	4150.6	4148.3	4162.4	4174.2	4174.2	4183.6	4195.3
30°	4178.9	4072.9	4051.7	4025.8	4035.3	4068.2	4075.3	4091.8	4096.5	4112.9	4122.4
32.5°	3978.8	3931.7	3912.8	3924.6	3955.2	3983.5	3999.9	4007.0	4018.8	4032.9	4044.7
35°	3816.3	3802.2	3818.7	3844.6	3875.2	3898.7	3912.8	3927.0	3938.7	3950.5	3959.9
37.5°	3696.2	3705.7	3729.2	3762.2	3792.8	3811.6	3823.4	3839.8	3856.3	3870.5	3814.0
40°	3583.2	3606.8	3632.7	3668.0	3693.9	3712.7	3724.5	3745.7	3604.4	1631.5	894.6
42.5°	3484.4	3510.2	3529.1	3557.3	3585.6	3599.7	3496.1	1560.9	882.9	878.2	889.9
45°	3364.3	3385.5	3416.1	3437.3	3463.2	2274.2	868.7	878.2	864.0	873.4	878.2
47.5°	3241.9	3274.8	3291.3	3140.6	934.7	864.0	854.6	864.0	854.6	866.4	859.3
50°	3103.0	3143.0	2236.6	845.2	838.1	833.4	842.8	838.1	845.2	854.6	835.8
52.5°	2961.7	1834.0	819.3	814.6	819.3	814.6	831.1	819.3	821.6	812.2	788.7
55°	1002.9	793.4	786.3	784.0	798.1	798.1	798.1	779.3	767.5	744.0	727.5
57.5°	767.5	767.5	765.1	767.5	762.8	758.1	736.9	720.4	703.9	671.0	661.6
60°	727.5	727.5	727.5	727.5	706.3	696.9	663.9	649.8	621.5	605.1	595.6
62.5°	694.5	689.8	668.6	661.6	638.0	612.1	593.3	579.2	550.9	541.5	534.4
65°	647.4	631.0	605.1	576.8	565.0	536.8	527.4	506.2	492.0	485.0	480.3
67.5°	569.7	546.2	525.0	506.2	485.0	475.6	463.8	447.3	437.9	433.2	428.5
70°	487.3	470.9	449.7	437.9	423.8	416.7	400.2	395.5	388.5	381.4	374.3
72.5°	407.3	397.9	388.5	372.0	367.3	362.6	346.1	336.7	327.2	317.8	313.1
75°	341.4	334.3	329.6	315.5	308.4	294.3	282.5	275.5	268.4	261.3	256.6
77.5°	280.2	275.5	261.3	251.9	247.2	235.4	230.7	233.1	228.4	218.9	214.2
80°	218.9	214.2	202.5	202.5	197.8	193.1	188.3	183.6	178.9	171.9	167.2
82.5°	167.2	162.4	157.7	153.0	148.3	146.0	143.6	138.9	134.2	129.5	127.1
85°	117.7	115.4	113.0	110.7	108.3	105.9	103.6	98.9	94.2	91.8	89.5
87.5°	80.0	77.7	75.3	73.0	70.6	68.3	65.9	63.6	58.9	56.5	54.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5553.8	5565.5	5553.8	5527.9	5511.4	5504.3	5518.5	5518.5	5527.9	5539.6	5542.0
5°	5466.7	5438.4	5405.5	5372.5	5356.0	5346.6	5320.7	5325.4	5332.5	5337.2	5341.9
7.5°	5250.1	5212.4	5167.7	5125.3	5108.8	5094.7	5064.1	5064.1	5064.1	5066.4	5080.6
10°	5028.8	5012.3	4993.5	4965.2	4944.0	4936.9	4911.1	4918.1	4913.4	4920.5	4936.9
12.5°	4925.2	4906.3	4889.9	4861.6	4838.1	4828.7	4816.9	4823.9	4821.6	4833.4	4847.5
15°	4831.0	4821.6	4802.8	4781.6	4760.4	4741.5	4699.2	4685.0	4675.6	4663.9	4680.3
17.5°	4675.6	4609.7	4565.0	4532.0	4508.5	4492.0	4480.2	4480.2	4487.3	4494.3	4508.5
20°	4463.7	4444.9	4423.7	4388.4	4364.9	4355.4	4348.4	4348.4	4360.1	4369.6	4395.5
22.5°	4317.8	4315.4	4308.4	4291.9	4280.1	4280.1	4282.5	4287.2	4303.6	4317.8	4343.7
25°	4249.5	4258.9	4254.2	4244.8	4237.7	4240.1	4235.4	4240.1	4256.6	4270.7	4291.9
27.5°	4195.3	4209.5	4204.8	4190.6	4178.9	4183.6	4190.6	4185.9	4200.1	4216.5	4233.0
30°	4122.4	4124.7	4134.1	4117.7	4112.9	4120.0	4122.4	4127.1	4141.2	4153.0	4167.1
32.5°	4040.0	4058.8	4056.4	4040.0	4040.0	4047.0	4049.4	3891.6	3597.4	3098.2	2961.7
35°	3959.9	3981.1	3945.8	3326.6	2302.5	1228.9	948.8	915.8	922.9	927.6	932.3
37.5°	2928.7	1389.0	885.2	892.3	899.3	906.4	913.5	920.5	927.6	934.7	937.0
40°	880.5	878.2	885.2	894.6	901.7	906.4	915.8	922.9	929.9	937.0	939.4
42.5°	871.1	875.8	882.9	892.3	901.7	911.1	918.2	927.6	932.3	937.0	939.4
45°	866.4	875.8	885.2	892.3	899.3	904.0	908.8	911.1	908.8	908.8	913.5
47.5°	859.3	868.7	871.1	868.7	871.1	868.7	868.7	868.7	861.7	859.3	859.3
50°	833.4	833.4	828.7	819.3	816.9	814.6	809.9	807.5	798.1	795.8	795.8
52.5°	779.3	776.9	769.9	758.1	753.4	748.7	746.3	744.0	734.5	729.8	732.2
55°	715.7	711.0	703.9	689.8	687.5	682.7	680.4	678.0	668.6	673.3	666.3
57.5°	656.8	647.4	638.0	635.7	626.2	623.9	621.5	619.2	612.1	614.5	609.8
60°	586.2	583.9	579.2	569.7	569.7	567.4	567.4	562.7	558.0	555.6	555.6
62.5°	534.4	527.4	522.7	522.7	515.6	515.6	515.6	510.9	506.2	508.5	506.2
65°	477.9	475.6	473.2	468.5	468.5	466.1	466.1	461.4	454.4	456.7	452.0
67.5°	430.8	426.1	421.4	419.1	409.6	404.9	402.6	400.2	390.8	393.2	388.5
70°	372.0	364.9	360.2	355.5	348.4	343.7	343.7	339.0	332.0	334.3	329.6
72.5°	310.8	306.1	301.3	299.0	291.9	289.6	287.2	284.9	277.8	280.2	277.8
75°	259.0	259.0	256.6	254.3	247.2	240.1	235.4	233.1	228.4	230.7	226.0
77.5°	214.2	209.5	204.8	204.8	197.8	193.1	188.3	188.3	188.3	186.0	183.6
80°	167.2	162.4	162.4	160.1	155.4	150.7	148.3	148.3	146.0	146.0	143.6
82.5°	127.1	122.4	120.1	120.1	115.4	113.0	110.7	108.3	108.3	108.3	105.9
85°	89.5	84.8	82.4	82.4	77.7	75.3	75.3	73.0	73.0	70.6	70.6
87.5°	54.1	51.8	49.4	49.4	44.7	42.4	42.4	42.4	40.0	40.0	37.7
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5542.0	5542.0	5525.5	5530.2	5523.2	5532.6	5520.8	5520.8	5534.9	5534.9	5544.4
5°	5344.2	5332.5	5330.1	5325.4	5301.9	5311.3	5299.5	5287.7	5304.2	5304.2	5325.4
7.5°	5073.5	5052.3	5061.7	5047.6	5033.5	5012.3	5019.3	5009.9	5021.7	5038.2	5059.4
10°	4934.6	4915.8	4927.5	4913.4	4920.5	4889.9	4892.2	4894.6	4906.3	4911.1	4929.9
12.5°	4845.1	4840.4	4835.7	4831.0	4835.7	4819.2	4809.8	4812.2	4816.9	4819.2	4833.4
15°	4656.8	4626.2	4635.6	4602.6	4605.0	4607.3	4588.5	4607.3	4605.0	4635.6	4663.9
17.5°	4503.8	4503.8	4487.3	4473.2	4463.7	4461.4	4447.3	4456.7	4447.3	4466.1	4473.2
20°	4397.8	4395.5	4393.1	4386.0	4362.5	4364.9	4371.9	4350.7	4348.4	4346.0	4360.1
22.5°	4348.4	4350.7	4341.3	4341.3	4320.1	4324.8	4327.2	4303.6	4306.0	4298.9	4306.0
25°	4296.6	4301.3	4289.5	4289.5	4284.8	4282.5	4270.7	4275.4	4261.3	4249.5	4261.3
27.5°	4235.4	4244.8	4235.4	4240.1	4230.7	4226.0	4218.9	4214.2	4200.1	4197.7	4204.8
30°	4178.9	4183.6	4181.2	4169.4	4167.1	4153.0	4160.0	4145.9	4131.8	4134.1	4138.8
32.5°	2142.4	2045.9	1577.4	1424.3	1410.2	1462.0	1732.8	2109.4	2733.3	3338.4	3773.9
35°	934.7	934.7	934.7	932.3	932.3	929.9	927.6	925.2	922.9	920.5	918.2
37.5°	939.4	939.4	939.4	939.4	937.0	934.7	934.7	929.9	927.6	925.2	922.9
40°	941.7	944.1	944.1	944.1	941.7	941.7	939.4	934.7	932.3	927.6	922.9
42.5°	939.4	941.7	941.7	939.4	939.4	937.0	937.0	934.7	932.3	929.9	927.6
45°	908.8	911.1	906.4	906.4	904.0	904.0	904.0	904.0	904.0	906.4	906.4
47.5°	854.6	854.6	852.3	849.9	849.9	847.5	849.9	847.5	852.3	854.6	859.3
50°	791.0	791.0	786.3	784.0	784.0	784.0	784.0	786.3	788.7	793.4	798.1
52.5°	725.1	725.1	722.8	720.4	718.1	718.1	725.1	722.8	725.1	727.5	734.5
55°	661.6	663.9	659.2	659.2	656.8	656.8	656.8	659.2	661.6	663.9	671.0
57.5°	607.4	607.4	602.7	602.7	602.7	600.3	607.4	602.7	605.1	607.4	612.1
60°	553.3	550.9	550.9	548.5	548.5	548.5	553.3	550.9	550.9	553.3	558.0
62.5°	503.8	503.8	501.5	501.5	499.1	499.1	503.8	501.5	501.5	503.8	506.2
65°	447.3	447.3	445.0	442.6	449.7	442.6	449.7	445.0	449.7	452.0	456.7
67.5°	383.7	383.7	383.7	381.4	381.4	386.1	388.5	383.7	386.1	390.8	393.2
70°	327.2	327.2	324.9	324.9	324.9	329.6	332.0	327.2	329.6	332.0	336.7
72.5°	277.8	273.1	273.1	270.7	275.5	275.5	277.8	275.5	277.8	277.8	282.5
75°	228.4	223.7	223.7	223.7	228.4	226.0	228.4	226.0	228.4	228.4	230.7
77.5°	183.6	181.3	178.9	178.9	183.6	183.6	183.6	181.3	183.6	186.0	188.3
80°	143.6	141.3	138.9	138.9	143.6	143.6	143.6	146.0	143.6	146.0	148.3
82.5°	105.9	103.6	101.2	105.9	105.9	105.9	105.9	108.3	105.9	108.3	110.7
85°	70.6	68.3	65.9	70.6	70.6	70.6	70.6	73.0	70.6	73.0	75.3
87.5°	37.7	35.3	35.3	37.7	37.7	37.7	40.0	40.0	40.0	42.4	42.4
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5558.5	5565.5	5563.2	5549.1	5534.9	5518.5	5506.7	5509.0	5532.6	5539.6	5518.5
5°	5325.4	5370.1	5370.1	5400.7	5384.3	5370.1	5379.6	5431.3	5457.2	5497.3	5511.4
7.5°	5085.3	5106.5	5104.1	5134.7	5130.0	5130.0	5137.1	5205.3	5238.3	5271.3	5280.7
10°	4951.1	4972.3	4969.9	4972.3	4965.2	4948.7	4948.7	4979.3	5007.6	5024.1	5028.8
12.5°	4854.5	4866.3	4864.0	4864.0	4859.3	4845.1	4842.8	4868.7	4899.3	4920.5	4922.8
15°	4710.9	4743.9	4751.0	4781.6	4774.5	4755.7	4760.4	4781.6	4800.4	4819.2	4812.2
17.5°	4496.7	4513.2	4515.5	4527.3	4522.6	4522.6	4550.8	4628.5	4680.3	4725.1	4729.8
20°	4374.3	4386.0	4381.3	4407.2	4395.5	4393.1	4400.2	4433.1	4456.7	4477.9	4515.5
22.5°	4315.4	4324.8	4317.8	4320.1	4298.9	4280.1	4275.4	4301.3	4327.2	4355.4	4355.4
25°	4266.0	4273.0	4270.7	4266.0	4249.5	4223.6	4218.9	4223.6	4233.0	4235.4	4218.9
27.5°	4207.1	4211.8	4211.8	4214.2	4193.0	4169.4	4164.7	4160.0	4169.4	4167.1	4141.2
30°	4145.9	4138.8	4141.2	4143.6	4124.7	4103.5	4094.1	4091.8	4101.2	4098.8	4072.9
32.5°	3999.9	4054.1	4058.8	4063.5	4047.0	4028.2	4018.8	4011.7	4016.4	4014.1	3990.5
35°	915.8	932.3	1141.8	2585.0	3510.2	3886.9	3927.0	3917.5	3919.9	3919.9	3901.1
37.5°	918.2	915.8	913.5	906.4	899.3	894.6	1546.8	3298.4	3821.0	3823.4	3806.9
40°	918.2	915.8	913.5	908.8	899.3	892.3	880.5	871.1	892.3	1963.5	3592.6
42.5°	922.9	918.2	913.5	908.8	899.3	889.9	880.5	868.7	875.8	871.1	859.3
45°	908.8	906.4	906.4	904.0	899.3	889.9	878.2	864.0	857.0	864.0	852.3
47.5°	864.0	866.4	873.4	875.8	875.8	878.2	871.1	861.7	849.9	857.0	842.8
50°	802.8	807.5	809.9	821.6	826.4	835.8	838.1	838.1	835.8	845.2	835.8
52.5°	736.9	741.6	753.4	758.1	762.8	776.9	781.6	788.7	793.4	807.5	816.9
55°	673.3	675.7	680.4	689.8	696.9	708.6	715.7	722.8	734.5	741.6	769.9
57.5°	614.5	616.8	626.2	628.6	633.3	642.7	649.8	659.2	668.6	673.3	706.3
60°	558.0	560.3	567.4	569.7	572.1	581.5	588.6	595.6	602.7	607.4	631.0
62.5°	508.5	508.5	515.6	515.6	517.9	525.0	529.7	534.4	541.5	543.8	555.6
65°	459.1	461.4	466.1	466.1	468.5	473.2	475.6	477.9	485.0	485.0	494.4
67.5°	397.9	400.2	407.3	412.0	414.4	423.8	426.1	428.5	433.2	435.5	440.3
70°	339.0	341.4	348.4	350.8	353.1	360.2	364.9	372.0	379.0	386.1	390.8
72.5°	284.9	287.2	294.3	294.3	301.3	303.7	308.4	310.8	317.8	322.5	329.6
75°	233.1	235.4	242.5	242.5	249.6	251.9	254.3	256.6	261.3	266.0	270.7
77.5°	190.7	190.7	200.1	204.8	209.5	209.5	211.9	211.9	211.9	214.2	218.9
80°	150.7	150.7	157.7	162.4	167.2	167.2	169.5	171.9	174.2	174.2	176.6
82.5°	113.0	113.0	120.1	122.4	127.1	127.1	127.1	129.5	131.8	129.5	134.2
85°	77.7	77.7	82.4	84.8	89.5	89.5	89.5	91.8	94.2	91.8	94.2
87.5°	44.7	47.1	49.4	51.8	54.1	56.5	56.5	56.5	58.9	58.9	61.2
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5494.9	5466.7	5464.3	5431.3	5421.9	5424.3	5398.4	5389.0	5346.6	5337.2	5292.4
5°	5516.1	5530.2	5523.2	5520.8	5527.9	5523.2	5504.3	5494.9	5487.9	5469.0	5431.3
7.5°	5283.0	5292.4	5299.5	5330.1	5356.0	5400.7	5447.8	5478.4	5502.0	5506.7	5476.1
10°	5045.2	5090.0	5120.6	5167.7	5205.3	5231.2	5259.5	5285.4	5353.7	5421.9	5462.0
12.5°	4922.8	4934.6	4932.2	4958.1	4984.0	5052.3	5118.2	5155.9	5207.7	5238.3	5311.3
15°	4819.2	4821.6	4828.7	4847.5	4861.6	4885.2	4915.8	4972.3	5075.9	5122.9	5163.0
17.5°	4725.1	4725.1	4729.8	4746.3	4765.1	4786.3	4805.1	4828.7	4880.4	4958.1	5057.0
20°	4574.4	4640.3	4647.4	4645.0	4654.4	4694.5	4699.2	4741.5	4767.4	4798.0	4894.6
22.5°	4350.7	4390.8	4447.3	4534.4	4567.3	4586.2	4600.3	4619.1	4659.1	4694.5	4734.5
25°	4228.3	4254.2	4270.7	4296.6	4364.9	4475.5	4496.7	4517.9	4543.8	4569.7	4619.1
27.5°	4120.0	4117.7	4129.4	4153.0	4171.8	4230.7	4334.2	4416.7	4421.4	4459.0	4501.4
30°	4042.3	4028.2	4011.7	4007.0	4032.9	4063.5	4094.1	4223.6	4313.1	4331.9	4376.6
32.5°	3969.3	3945.8	3922.2	3903.4	3886.9	3912.8	3931.7	3988.2	4103.5	4211.8	4235.4
35°	3879.9	3856.3	3828.1	3806.9	3781.0	3778.6	3776.3	3830.4	3868.1	3997.6	4110.6
37.5°	3788.1	3762.2	3738.6	3715.1	3689.2	3670.3	3658.6	3672.7	3708.0	3764.5	3952.9
40°	3691.5	3660.9	3637.4	3618.5	3583.2	3569.1	3545.6	3536.1	3538.5	3587.9	3686.8
42.5°	2206.0	3517.3	3529.1	3507.9	3477.3	3458.5	3432.6	3420.8	3397.2	3420.8	3477.3
45°	849.9	859.3	2573.2	3399.6	3361.9	3338.4	3314.8	3303.1	3277.2	3258.3	3310.1
47.5°	833.4	842.8	824.0	1167.7	3208.9	3216.0	3187.7	3175.9	3150.0	3135.9	3121.8
50°	821.6	828.7	814.6	819.3	802.8	2940.5	3058.2	3044.1	3015.8	2999.4	2971.1
52.5°	809.9	809.9	800.5	788.7	784.0	786.3	2474.4	2909.9	2876.9	2860.5	2822.8
55°	772.2	776.9	786.3	767.5	762.8	760.4	753.4	2356.6	2723.9	2705.1	2672.1
57.5°	715.7	725.1	751.0	746.3	746.3	727.5	722.8	722.8	2187.1	2547.3	2514.4
60°	649.8	659.2	687.5	696.9	703.9	699.2	694.5	692.2	682.7	2304.9	2347.2
62.5°	581.5	590.9	600.3	631.0	640.4	652.1	666.3	659.2	649.8	649.8	2170.7
65°	508.5	522.7	527.4	555.6	567.4	588.6	600.3	616.8	612.1	609.8	621.5
67.5°	445.0	461.4	463.8	475.6	496.8	506.2	520.3	550.9	565.0	569.7	574.4
70°	390.8	400.2	407.3	412.0	426.1	428.5	454.4	475.6	496.8	520.3	527.4
72.5°	336.7	343.7	357.9	353.1	357.9	367.3	381.4	395.5	416.7	449.7	470.9
75°	275.5	280.2	289.6	294.3	303.7	310.8	320.2	332.0	350.8	367.3	395.5
77.5°	221.3	223.7	230.7	233.1	242.5	249.6	266.0	273.1	284.9	296.6	313.1
80°	178.9	178.9	181.3	181.3	188.3	195.4	207.2	214.2	228.4	237.8	237.8
82.5°	136.5	136.5	143.6	143.6	148.3	148.3	155.4	155.4	162.4	167.2	171.9
85°	96.5	98.9	103.6	101.2	105.9	103.6	108.3	113.0	115.4	113.0	110.7
87.5°	63.6	63.6	68.3	65.9	68.3	68.3	73.0	73.0	75.3	75.3	73.0
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5276.0	5240.7	5219.5	5193.6	5186.5	5179.4	5188.9	5188.9	5174.7	5163.0	5141.8
5°	5398.4	5360.7	5320.7	5278.3	5238.3	5195.9	5179.4	5177.1	5151.2	5137.1	5130.0
7.5°	5462.0	5443.1	5398.4	5339.5	5278.3	5203.0	5170.0	5151.2	5125.3	5120.6	5120.6
10°	5469.0	5447.8	5424.3	5381.9	5311.3	5212.4	5148.8	5111.2	5087.6	5104.1	5134.7
12.5°	5400.7	5440.8	5419.6	5391.3	5334.8	5214.8	5122.9	5066.4	5059.4	5101.7	5181.8
15°	5226.5	5344.2	5403.1	5374.8	5330.1	5210.0	5080.6	5014.6	5014.6	5101.7	5205.3
17.5°	5094.7	5186.5	5330.1	5353.7	5301.9	5200.6	5040.5	4962.8	4984.0	5111.2	5221.8
20°	4986.4	5042.9	5181.8	5313.6	5264.2	5179.4	4981.7	4901.6	4944.0	5097.0	5245.4
22.5°	4816.9	4929.9	5014.6	5210.0	5226.5	5139.4	4922.8	4826.3	4911.1	5097.0	5233.6
25°	4652.1	4788.6	4878.1	5068.8	5170.0	5090.0	4868.7	4746.3	4875.7	5090.0	5224.2
27.5°	4536.7	4600.3	4762.7	4899.3	5085.3	5024.1	4795.7	4659.1	4831.0	5052.3	5170.0
30°	4414.3	4456.7	4616.8	4746.3	4972.3	4948.7	4720.4	4562.6	4774.5	5017.0	5028.8
32.5°	4280.1	4327.2	4409.6	4597.9	4814.5	4878.1	4635.6	4466.1	4713.3	4962.8	4864.0
35°	4143.6	4178.9	4244.8	4447.3	4630.9	4772.1	4532.0	4355.4	4670.9	4880.4	4706.2
37.5°	4007.0	4044.7	4101.2	4270.7	4437.8	4673.3	4442.5	4244.8	4593.2	4734.5	4541.4
40°	3877.5	3898.7	3957.6	4063.5	4277.7	4572.0	4341.3	4129.4	4513.2	4548.5	4317.8
42.5°	3639.7	3745.7	3799.8	3884.6	4096.5	4433.1	4223.6	4007.0	4423.7	4362.5	4094.1
45°	3383.1	3613.8	3637.4	3722.1	3936.4	4284.8	4112.9	3886.9	4339.0	4202.4	3882.2
47.5°	3173.6	3340.7	3477.3	3547.9	3745.7	4110.6	4009.4	3785.7	4211.8	3999.9	3675.0
50°	2987.6	3077.1	3324.3	3376.1	3517.3	3901.1	3886.9	3668.0	4035.3	3745.7	3472.6
52.5°	2806.3	2869.9	3093.5	3204.2	3319.6	3675.0	3741.0	3552.6	3842.2	3491.4	3267.8
55°	2648.6	2669.8	2792.2	3025.3	3128.9	3446.7	3580.9	3418.4	3597.4	3248.9	3070.0
57.5°	2486.1	2467.3	2556.8	2855.8	2931.1	3213.6	3411.4	3281.9	3399.6	3001.7	2865.2
60°	2316.6	2290.7	2328.4	2526.2	2721.6	2982.9	3211.3	3131.2	3159.5	2756.9	2636.8
62.5°	2140.1	2114.2	2102.4	2227.2	2516.7	2745.1	3008.8	2964.1	2865.2	2533.2	2354.3
65°	1956.4	1930.5	1911.7	1961.1	2290.7	2436.7	2782.8	2771.0	2542.6	2297.8	1982.3
67.5°	595.6	1756.3	1716.3	1713.9	1930.5	2156.5	2537.9	2519.1	2217.7	2045.9	1706.9
70°	536.8	1424.3	1513.8	1492.6	1586.8	1871.7	2257.8	2243.6	1902.3	1640.9	1509.1
72.5°	492.0	503.8	1337.2	1313.7	1334.9	1591.5	1965.8	1928.2	1612.7	1294.9	1304.3
75°	421.4	442.6	461.4	1108.9	1080.6	1318.4	1648.0	1589.1	1330.2	1068.8	1090.0
77.5°	343.7	369.6	383.7	807.5	873.4	939.4	1316.0	1238.4	915.8	854.6	407.3
80°	256.6	277.8	301.3	322.5	663.9	656.8	977.0	899.3	638.0	532.1	317.8
82.5°	188.3	195.4	209.5	233.1	263.7	440.3	628.6	553.3	442.6	242.5	218.9
85°	117.7	127.1	134.2	141.3	160.1	263.7	310.8	247.2	186.0	148.3	138.9
87.5°	75.3	75.3	73.0	75.3	77.7	94.2	105.9	101.2	80.0	75.3	75.3
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5118.2	5085.3	5085.3	5075.9	5082.9	5082.9	5080.6	5082.9	5099.4	5108.8	5125.3
5°	5115.9	5106.5	5127.6	5153.5	5184.1	5221.8	5231.2	5264.2	5294.8	5334.8	5377.2
7.5°	5146.5	5179.4	5219.5	5261.8	5323.1	5367.8	5407.8	5447.8	5476.1	5513.7	5537.3
10°	5191.2	5257.1	5325.4	5379.6	5445.5	5483.1	5509.0	5513.7	5473.7	5410.2	5358.4
12.5°	5254.8	5332.5	5396.0	5447.8	5478.4	5464.3	5389.0	5311.3	5266.5	5200.6	5108.8
15°	5308.9	5379.6	5445.5	5424.3	5341.9	5264.2	5205.3	5113.5	5024.1	4962.8	4922.8
17.5°	5332.5	5400.7	5377.2	5266.5	5188.9	5099.4	4979.3	4908.7	4849.8	4802.8	4779.2
20°	5346.6	5334.8	5207.7	5127.6	4977.0	4894.6	4816.9	4751.0	4706.2	4682.7	4678.0
22.5°	5308.9	5165.3	5057.0	4913.4	4802.8	4734.5	4673.3	4619.1	4588.5	4569.7	4557.9
25°	5184.1	5017.0	4856.9	4743.9	4649.7	4590.9	4543.8	4499.1	4461.4	4452.0	4428.4
27.5°	5009.9	4873.4	4661.5	4574.4	4492.0	4463.7	4411.9	4367.2	4334.2	4306.0	4230.7
30°	4866.3	4649.7	4496.7	4416.7	4367.2	4334.2	4275.4	4228.3	4171.8	4068.2	4025.8
32.5°	4689.7	4475.5	4329.5	4284.8	4223.6	4195.3	4129.4	4025.8	3938.7	3896.4	3894.0
35°	4461.4	4284.8	4178.9	4138.8	4089.4	4042.3	3905.8	3811.6	3769.2	3773.9	3809.2
37.5°	4270.7	4112.9	4044.7	3988.2	3931.7	3811.6	3696.2	3651.5	3663.3	3686.8	3703.3
40°	4077.6	3957.6	3879.9	3835.1	3708.0	3590.3	3529.1	3545.6	3566.8	3583.2	3604.4
42.5°	3889.3	3804.5	3726.8	3639.7	3465.5	3402.0	3416.1	3437.3	3456.1	3479.6	3500.8
45°	3710.4	3635.0	3545.6	3347.8	3260.7	3277.2	3298.4	3314.8	3343.1	3359.6	3380.8
47.5°	3540.9	3460.8	3303.1	3128.9	3119.4	3152.4	3171.2	3192.4	3213.6	3171.2	1749.2
50°	3350.2	3267.8	3027.6	2961.7	2982.9	3013.5	3037.0	3058.2	2723.9	1083.0	833.4
52.5°	3161.8	2952.3	2799.3	2818.1	2839.3	2874.6	2891.1	2147.1	854.6	814.6	816.9
55°	2952.3	2683.9	2639.2	2662.7	2681.5	2716.9	1801.0	788.7	784.0	781.6	800.5
57.5°	2622.7	2460.2	2479.1	2502.6	2521.4	1779.8	767.5	762.8	765.1	767.5	769.9
60°	2328.4	2293.1	2314.3	2335.5	1652.7	741.6	727.5	729.8	739.2	732.2	713.4
62.5°	2095.3	2123.6	2144.8	1878.7	703.9	696.9	703.9	696.9	680.4	668.6	645.1
65°	1916.4	1944.6	1961.1	661.6	659.2	668.6	661.6	638.0	612.1	579.2	572.1
67.5°	1728.0	1756.3	628.6	612.1	621.5	609.8	581.5	553.3	534.4	506.2	494.4
70°	1532.6	656.8	569.7	567.4	550.9	532.1	501.5	473.2	449.7	437.9	426.1
72.5°	1106.5	520.3	513.2	494.4	466.1	440.3	414.4	397.9	386.1	379.0	372.0
75°	461.4	452.0	430.8	397.9	369.6	357.9	339.0	327.2	322.5	308.4	303.7
77.5°	386.1	367.3	336.7	313.1	296.6	289.6	275.5	261.3	254.3	251.9	242.5
80°	296.6	270.7	256.6	244.8	240.1	223.7	207.2	200.1	195.4	193.1	186.0
82.5°	202.5	193.1	183.6	167.2	167.2	160.1	153.0	148.3	143.6	143.6	138.9
85°	131.8	124.8	122.4	115.4	115.4	110.7	108.3	105.9	103.6	101.2	98.9
87.5°	75.3	75.3	77.7	75.3	75.3	73.0	70.6	68.3	65.9	65.9	61.2
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5146.5	5170.0	5174.7	5254.8	5299.5	5297.2	5283.0	5325.4	5299.5	5285.4	5299.5
5°	5419.6	5447.8	5471.4	5558.5	5589.1	5603.2	5600.9	5624.4	5605.6	5589.1	5589.1
7.5°	5553.8	5563.2	5572.6	5551.4	5537.3	5513.7	5478.4	5426.6	5400.7	5372.5	5337.2
10°	5332.5	5301.9	5313.6	5271.3	5235.9	5210.0	5177.1	5134.7	5099.4	5073.5	5033.5
12.5°	5061.7	5059.4	5064.1	5071.1	5035.8	5014.6	4988.7	4958.1	4932.2	4904.0	4871.0
15°	4896.9	4899.3	4918.1	4911.1	4899.3	4887.5	4859.3	4849.8	4826.3	4795.7	4776.9
17.5°	4779.2	4791.0	4809.8	4800.4	4781.6	4769.8	4748.6	4727.4	4706.2	4682.7	4654.4
20°	4675.6	4687.4	4699.2	4687.4	4652.1	4635.6	4607.3	4541.4	4494.3	4447.3	4404.9
22.5°	4562.6	4569.7	4560.3	4522.6	4433.1	4390.8	4357.8	4339.0	4298.9	4273.0	4247.1
25°	4421.4	4381.3	4320.1	4277.7	4242.4	4223.6	4209.5	4207.1	4202.4	4197.7	4185.9
27.5°	4190.6	4176.5	4143.6	4127.1	4129.4	4136.5	4138.8	4145.9	4138.8	4129.4	4120.0
30°	4018.8	4025.8	4028.2	4032.9	4044.7	4051.7	4054.1	4063.5	4058.8	4051.7	4047.0
32.5°	3910.5	3927.0	3936.4	3950.5	3957.6	3969.3	3969.3	3983.5	3969.3	3967.0	3962.3
35°	3821.0	3835.1	3839.8	3861.0	3868.1	3879.9	3879.9	3891.6	3879.9	3759.8	2968.8
37.5°	3731.6	3745.7	3755.1	3773.9	3776.3	3783.3	3491.4	2554.4	1648.0	1276.0	974.7
40°	3625.6	3642.1	3651.5	3658.6	2570.9	1631.5	1123.0	913.5	913.5	920.5	927.6
42.5°	3512.6	3524.4	2455.5	1429.1	889.9	887.6	894.6	901.7	908.8	918.2	927.6
45°	2761.6	1393.7	885.2	864.0	871.1	880.5	889.9	899.3	911.1	920.5	925.2
47.5°	906.4	849.9	861.7	852.3	864.0	875.8	885.2	894.6	897.0	899.3	897.0
50°	838.1	838.1	845.2	845.2	854.6	859.3	859.3	859.3	849.9	847.5	840.5
52.5°	809.9	828.7	819.3	824.0	819.3	812.2	805.2	798.1	784.0	779.3	769.9
55°	795.8	802.8	779.3	772.2	762.8	744.0	734.5	725.1	713.4	708.6	696.9
57.5°	762.8	746.3	720.4	708.6	692.2	673.3	663.9	656.8	645.1	640.4	633.3
60°	701.6	668.6	652.1	638.0	619.2	602.7	595.6	590.9	581.5	579.2	572.1
62.5°	626.2	598.0	583.9	565.0	550.9	541.5	534.4	532.1	522.7	522.7	517.9
65°	543.8	529.7	517.9	499.1	492.0	482.6	480.3	477.9	473.2	470.9	466.1
67.5°	477.9	468.5	452.0	442.6	437.9	430.8	426.1	421.4	412.0	407.3	400.2
70°	419.1	412.0	395.5	388.5	379.0	367.3	360.2	355.5	348.4	343.7	336.7
72.5°	362.6	341.4	329.6	322.5	315.5	303.7	301.3	296.6	289.6	287.2	280.2
75°	291.9	275.5	268.4	263.7	256.6	249.6	249.6	249.6	242.5	240.1	237.8
77.5°	233.1	223.7	218.9	214.2	211.9	207.2	200.1	197.8	190.7	190.7	188.3
80°	178.9	174.2	169.5	167.2	164.8	160.1	155.4	153.0	146.0	146.0	143.6
82.5°	131.8	129.5	127.1	124.8	122.4	120.1	113.0	110.7	105.9	105.9	103.6
85°	94.2	91.8	87.1	84.8	84.8	82.4	75.3	73.0	68.3	68.3	68.3
87.5°	58.9	56.5	54.1	51.8	49.4	47.1	42.4	40.0	40.0	35.3	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5271.3	5311.3	5306.6	5334.8	5341.9	5356.0	5360.7	5363.1	5327.8	5356.0	5358.4
5°	5582.0	5589.1	5593.8	5605.6	5617.3	5619.7	5607.9	5593.8	5598.5	5589.1	5565.5
7.5°	5332.5	5297.2	5290.1	5280.7	5276.0	5271.3	5250.1	5268.9	5247.7	5238.3	5205.3
10°	5026.4	4993.5	4991.1	4991.1	4998.2	4995.8	4991.1	4981.7	5000.5	4988.7	4981.7
12.5°	4866.3	4854.5	4861.6	4856.9	4875.7	4880.4	4875.7	4875.7	4871.0	4861.6	4866.3
15°	4769.8	4760.4	4767.4	4760.4	4774.5	4776.9	4765.1	4772.1	4760.4	4748.6	4743.9
17.5°	4642.7	4621.5	4605.0	4581.5	4583.8	4579.1	4565.0	4565.0	4553.2	4522.6	4524.9
20°	4397.8	4376.6	4367.2	4367.2	4379.0	4383.7	4381.3	4386.0	4374.3	4369.6	4350.7
22.5°	4244.8	4242.4	4247.1	4258.9	4277.7	4303.6	4306.0	4306.0	4306.0	4303.6	4280.1
25°	4190.6	4190.6	4195.3	4211.8	4226.0	4244.8	4249.5	4254.2	4249.5	4249.5	4228.3
27.5°	4129.4	4124.7	4134.1	4150.6	4167.1	4181.2	4193.0	4195.3	4188.3	4188.3	4195.3
30°	4054.1	4051.7	4063.5	4080.0	4094.1	4108.2	4120.0	4129.4	4120.0	4120.0	4112.9
32.5°	3976.4	3976.4	3981.1	3882.2	3599.7	3241.9	3248.9	3041.7	2898.1	2716.9	2957.0
35°	2481.4	1805.7	1551.5	1313.7	1146.5	1038.2	1035.9	1000.6	984.1	972.3	970.0
37.5°	937.0	941.7	951.1	955.8	962.9	967.6	970.0	970.0	970.0	970.0	967.6
40°	934.7	944.1	951.1	958.2	965.3	970.0	970.0	972.3	974.7	974.7	974.7
42.5°	937.0	946.4	955.8	962.9	967.6	970.0	972.3	974.7	974.7	974.7	974.7
45°	934.7	939.4	939.4	941.7	941.7	941.7	944.1	944.1	941.7	939.4	944.1
47.5°	899.3	899.3	892.3	889.9	887.6	882.9	885.2	882.9	880.5	878.2	882.9
50°	838.1	828.7	824.0	819.3	816.9	812.2	814.6	812.2	809.9	805.2	812.2
52.5°	765.1	762.8	753.4	748.7	746.3	748.7	744.0	741.6	739.2	736.9	739.2
55°	694.5	685.1	682.7	678.0	675.7	678.0	675.7	673.3	671.0	668.6	671.0
57.5°	631.0	623.9	621.5	616.8	616.8	616.8	616.8	614.5	612.1	609.8	612.1
60°	569.7	565.0	562.7	562.7	560.3	560.3	560.3	558.0	555.6	555.6	558.0
62.5°	517.9	517.9	510.9	508.5	508.5	510.9	508.5	506.2	503.8	501.5	506.2
65°	463.8	454.4	452.0	447.3	442.6	445.0	442.6	440.3	437.9	435.5	440.3
67.5°	397.9	395.5	386.1	381.4	379.0	381.4	379.0	376.7	374.3	372.0	376.7
70°	334.3	334.3	324.9	322.5	320.2	320.2	317.8	317.8	315.5	313.1	317.8
72.5°	277.8	277.8	275.5	270.7	268.4	266.0	263.7	261.3	261.3	263.7	263.7
75°	230.7	226.0	216.6	218.9	216.6	214.2	214.2	211.9	209.5	214.2	211.9
77.5°	181.3	178.9	171.9	174.2	171.9	169.5	169.5	167.2	164.8	167.2	167.2
80°	136.5	136.5	134.2	131.8	131.8	129.5	127.1	127.1	124.8	127.1	127.1
82.5°	98.9	98.9	96.5	94.2	91.8	91.8	89.5	89.5	89.5	89.5	89.5
85°	63.6	61.2	61.2	56.5	56.5	56.5	54.1	54.1	54.1	54.1	54.1
87.5°	30.6	30.6	28.3	28.3	25.9	23.5	23.5	21.2	21.2	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5316.0	5346.6	5320.7	5332.5	5334.8	5374.8	5372.5	5381.9	5365.4	5346.6	5320.7
5°	5586.7	5572.6	5553.8	5598.5	5575.0	5603.2	5612.6	5631.5	5631.5	5629.1	5607.9
7.5°	5240.7	5210.0	5233.6	5250.1	5257.1	5238.3	5276.0	5318.3	5353.7	5374.8	5377.2
10°	4969.9	4979.3	4977.0	4984.0	5000.5	4998.2	5021.7	5045.2	5054.7	5068.8	5073.5
12.5°	4842.8	4840.4	4845.1	4861.6	4871.0	4868.7	4892.2	4906.3	4911.1	4913.4	4911.1
15°	4741.5	4725.1	4736.8	4739.2	4746.3	4746.3	4774.5	4795.7	4805.1	4809.8	4805.1
17.5°	4550.8	4510.8	4548.5	4548.5	4574.4	4569.7	4614.4	4649.7	4668.6	4682.7	4682.7
20°	4362.5	4343.7	4357.8	4353.1	4371.9	4369.6	4397.8	4421.4	4437.8	4449.6	4463.7
22.5°	4287.2	4291.9	4270.7	4273.0	4273.0	4270.7	4284.8	4296.6	4301.3	4308.4	4303.6
25°	4237.7	4242.4	4235.4	4223.6	4218.9	4223.6	4230.7	4244.8	4247.1	4242.4	4226.0
27.5°	4188.3	4174.2	4185.9	4164.7	4160.0	4169.4	4178.9	4181.2	4183.6	4183.6	4169.4
30°	4112.9	4101.2	4112.9	4103.5	4094.1	4103.5	4110.6	4110.6	4115.3	4117.7	4101.2
32.5°	2874.6	2898.1	3279.5	3510.2	3835.1	3999.9	4030.5	4030.5	4035.3	4035.3	4021.1
35°	979.4	981.7	1061.8	1151.2	1341.9	1577.4	1885.8	2045.9	2587.4	3234.8	3861.0
37.5°	967.6	965.3	962.9	960.6	958.2	955.8	951.1	948.8	962.9	1141.8	1549.1
40°	972.3	970.0	965.3	962.9	960.6	955.8	953.5	948.8	944.1	939.4	934.7
42.5°	972.3	970.0	967.6	965.3	962.9	960.6	955.8	951.1	946.4	939.4	932.3
45°	939.4	939.4	941.7	941.7	944.1	944.1	944.1	941.7	941.7	939.4	929.9
47.5°	878.2	878.2	885.2	885.2	889.9	894.6	894.6	899.3	906.4	911.1	913.5
50°	807.5	807.5	814.6	816.9	821.6	828.7	835.8	838.1	845.2	854.6	864.0
52.5°	736.9	736.9	744.0	744.0	748.7	755.7	762.8	765.1	774.6	784.0	795.8
55°	671.0	671.0	675.7	678.0	680.4	685.1	692.2	692.2	701.6	708.6	720.4
57.5°	612.1	616.8	616.8	616.8	619.2	623.9	628.6	628.6	635.7	642.7	652.1
60°	555.6	560.3	560.3	560.3	562.7	565.0	569.7	569.7	574.4	579.2	588.6
62.5°	503.8	508.5	508.5	510.9	510.9	513.2	517.9	515.6	520.3	522.7	529.7
65°	437.9	442.6	445.0	447.3	449.7	454.4	461.4	459.1	466.1	470.9	477.9
67.5°	374.3	379.0	379.0	381.4	383.7	388.5	393.2	393.2	400.2	404.9	414.4
70°	315.5	320.2	320.2	322.5	324.9	329.6	334.3	332.0	339.0	343.7	350.8
72.5°	261.3	266.0	266.0	268.4	268.4	273.1	277.8	282.5	282.5	287.2	291.9
75°	211.9	214.2	216.6	216.6	218.9	221.3	226.0	230.7	233.1	235.4	240.1
77.5°	167.2	169.5	171.9	171.9	174.2	176.6	178.9	188.3	193.1	195.4	195.4
80°	127.1	129.5	129.5	129.5	131.8	134.2	138.9	138.9	148.3	148.3	150.7
82.5°	89.5	91.8	91.8	91.8	94.2	98.9	101.2	103.6	108.3	110.7	110.7
85°	54.1	56.5	56.5	56.5	58.9	61.2	65.9	68.3	70.6	70.6	73.0
87.5°	21.2	23.5	25.9	25.9	28.3	30.6	33.0	35.3	37.7	37.7	40.0
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5292.4	5308.9	5292.4	5301.9	5313.6	5292.4	5243.0	5224.2	5217.1	5188.9	5170.0
5°	5586.7	5586.7	5579.7	5598.5	5596.1	5563.2	5511.4	5487.9	5464.3	5433.7	5410.2
7.5°	5377.2	5396.0	5407.8	5480.8	5527.9	5532.6	5565.5	5572.6	5582.0	5572.6	5558.5
10°	5075.9	5068.8	5101.7	5170.0	5210.0	5231.2	5294.8	5325.4	5351.3	5403.1	5457.2
12.5°	4906.3	4915.8	4929.9	4979.3	5017.0	5007.6	5033.5	5054.7	5085.3	5137.1	5214.8
15°	4793.3	4802.8	4816.9	4854.5	4878.1	4866.3	4880.4	4894.6	4915.8	4941.7	4988.7
17.5°	4670.9	4687.4	4703.9	4743.9	4765.1	4762.7	4774.5	4779.2	4786.3	4802.8	4835.7
20°	4480.2	4532.0	4565.0	4619.1	4649.7	4645.0	4666.2	4673.3	4682.7	4699.2	4713.3
22.5°	4306.0	4320.1	4336.6	4395.5	4447.3	4510.8	4524.9	4543.8	4567.3	4583.8	4597.9
25°	4207.1	4197.7	4204.8	4244.8	4273.0	4277.7	4298.9	4360.1	4423.7	4452.0	4484.9
27.5°	4148.3	4138.8	4136.5	4155.3	4160.0	4148.3	4143.6	4162.4	4209.5	4256.6	4355.4
30°	4084.7	4072.9	4063.5	4080.0	4087.0	4070.6	4040.0	4023.5	4051.7	4063.5	4103.5
32.5°	4009.4	3997.6	3992.9	4002.3	4007.0	3992.9	3959.9	3941.1	3936.4	3927.0	3936.4
35°	3924.6	3912.8	3905.8	3908.1	3917.5	3905.8	3877.5	3854.0	3842.2	3816.3	3797.5
37.5°	2022.3	2865.2	3719.8	3809.2	3818.7	3816.3	3788.1	3762.2	3750.4	3719.8	3710.4
40°	925.2	1033.5	1551.5	2027.0	2924.0	3715.1	3689.2	3663.3	3642.1	3632.7	3597.4
42.5°	922.9	925.2	927.6	915.8	1134.8	1932.9	2853.4	3562.0	3547.9	3524.4	3498.5
45°	922.9	911.1	920.5	906.4	911.1	908.8	1132.4	1826.9	3251.3	3397.2	3385.5
47.5°	913.5	906.4	915.8	904.0	889.9	897.0	887.6	899.3	1403.2	2380.2	3260.7
50°	871.1	875.8	892.3	889.9	878.2	887.6	871.1	885.2	873.4	958.2	1845.8
52.5°	807.5	816.9	833.4	847.5	852.3	864.0	859.3	864.0	854.6	857.0	859.3
55°	732.2	744.0	758.1	779.3	788.7	807.5	821.6	828.7	840.5	838.1	819.3
57.5°	661.6	673.3	685.1	706.3	727.5	736.9	762.8	776.9	807.5	800.5	795.8
60°	595.6	605.1	616.8	621.5	647.4	663.9	687.5	701.6	741.6	751.0	765.1
62.5°	536.8	541.5	550.9	558.0	574.4	590.9	602.7	626.2	647.4	678.0	699.2
65°	482.6	487.3	494.4	499.1	501.5	525.0	532.1	558.0	565.0	598.0	616.8
67.5°	421.4	430.8	440.3	445.0	449.7	463.8	468.5	480.3	496.8	510.9	534.4
70°	357.9	364.9	374.3	381.4	390.8	400.2	414.4	421.4	433.2	442.6	461.4
72.5°	299.0	306.1	310.8	317.8	324.9	332.0	343.7	360.2	369.6	386.1	390.8
75°	242.5	249.6	254.3	259.0	266.0	270.7	275.5	291.9	301.3	315.5	329.6
77.5°	200.1	200.1	204.8	218.9	216.6	216.6	221.3	230.7	237.8	247.2	261.3
80°	155.4	157.7	160.1	171.9	174.2	176.6	174.2	181.3	188.3	190.7	200.1
82.5°	115.4	117.7	117.7	124.8	131.8	131.8	131.8	134.2	141.3	143.6	148.3
85°	77.7	80.0	82.4	84.8	89.5	91.8	94.2	94.2	98.9	101.2	103.6
87.5°	42.4	47.1	49.4	51.8	54.1	56.5	58.9	61.2	63.6	65.9	68.3
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-LD5-136SL-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°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	5163.0	5151.2	5144.1	5125.3	5120.6	5090.0	5094.7	5090.0	5090.0	5097.0	5120.6
5°	5384.3	5327.8	5313.6	5273.6	5240.7	5184.1	5148.8	5130.0	5101.7	5090.0	5106.5
7.5°	5534.9	5492.6	5457.2	5421.9	5374.8	5308.9	5259.5	5203.0	5155.9	5111.2	5099.4
10°	5509.0	5556.1	5556.1	5534.9	5490.2	5424.3	5365.4	5294.8	5212.4	5141.8	5099.4
12.5°	5290.1	5372.5	5438.4	5487.9	5532.6	5487.9	5429.0	5372.5	5280.7	5177.1	5099.4
15°	5050.0	5134.7	5217.1	5320.7	5429.0	5473.7	5471.4	5405.5	5323.1	5214.8	5106.5
17.5°	4880.4	4939.3	4984.0	5097.0	5228.9	5344.2	5421.9	5426.6	5346.6	5250.1	5108.8
20°	4753.3	4795.7	4833.4	4896.9	5012.3	5153.5	5297.2	5377.2	5363.1	5257.1	5115.9
22.5°	4638.0	4668.6	4699.2	4746.3	4838.1	4929.9	5097.0	5261.8	5332.5	5245.4	5108.8
25°	4522.6	4555.6	4579.1	4612.1	4685.0	4760.4	4878.1	5082.9	5240.7	5235.9	5094.7
27.5°	4386.0	4430.8	4459.0	4503.8	4553.2	4609.7	4689.7	4882.8	5108.8	5188.9	5057.0
30°	4221.2	4287.2	4329.5	4379.0	4421.4	4470.8	4534.4	4652.1	4932.2	5097.0	5017.0
32.5°	3983.5	4101.2	4195.3	4242.4	4289.5	4331.9	4388.4	4487.3	4715.6	4972.3	4972.3
35°	3814.0	3868.1	3952.9	4089.4	4148.3	4190.6	4242.4	4320.1	4466.1	4823.9	4899.3
37.5°	3682.1	3703.3	3745.7	3879.9	3990.5	4058.8	4110.6	4160.0	4303.6	4621.5	4805.1
40°	3583.2	3576.2	3571.5	3635.0	3792.8	3901.1	3959.9	4009.4	4120.0	4379.0	4680.3
42.5°	3467.9	3460.8	3437.3	3453.7	3531.4	3712.7	3802.2	3856.3	3948.1	4124.7	4543.8
45°	3347.8	3336.0	3326.6	3310.1	3338.4	3439.6	3623.3	3703.3	3755.1	3912.8	4371.9
47.5°	3225.4	3208.9	3197.1	3183.0	3166.5	3213.6	3387.8	3531.4	3620.9	3719.8	4164.7
50°	3051.2	3072.3	3058.2	3041.7	3027.6	3018.2	3091.2	3326.6	3437.3	3517.3	3912.8
52.5°	1438.5	2796.9	2914.6	2898.1	2879.3	2862.8	2879.3	3058.2	3258.3	3321.9	3609.1
55°	819.3	1245.4	2592.1	2740.4	2723.9	2700.4	2686.2	2747.5	3046.5	3131.2	3331.3
57.5°	788.7	791.0	1144.2	2469.7	2561.5	2540.3	2523.8	2537.9	2792.2	2935.8	3088.8
60°	762.8	762.8	762.8	1092.4	2361.4	2368.4	2347.2	2323.7	2434.3	2716.9	2844.0
62.5°	706.3	720.4	727.5	727.5	1078.3	2187.1	2165.9	2158.9	2163.6	2453.2	2599.1
65°	633.3	666.3	680.4	689.8	689.8	1132.4	1980.0	1968.2	1951.7	2062.4	2351.9
67.5°	553.3	586.2	616.8	635.7	638.0	659.2	1181.9	1772.8	1749.2	1751.6	2088.3
70°	470.9	499.1	532.1	560.3	586.2	598.0	616.8	1471.4	1549.1	1516.2	1789.3
72.5°	407.3	419.1	442.6	470.9	501.5	529.7	546.2	586.2	1344.3	1309.0	1360.8
75°	339.0	348.4	364.9	383.7	407.3	440.3	468.5	496.8	713.4	1097.1	1090.0
77.5°	263.7	280.2	299.0	310.8	322.5	346.1	383.7	412.0	440.3	741.6	873.4
80°	202.5	214.2	223.7	235.4	249.6	266.0	280.2	313.1	346.1	372.0	668.6
82.5°	150.7	157.7	164.8	169.5	174.2	183.6	209.5	221.3	242.5	266.0	315.5
85°	105.9	110.7	115.4	117.7	120.1	122.4	131.8	134.2	155.4	160.1	190.7
87.5°	68.3	70.6	75.3	77.7	77.7	80.0	82.4	82.4	82.4	77.7	94.2
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-LD5-136SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	5137.1	5137.1
2.5°	5139.4	5177.1
5°	5132.4	5181.8
7.5°	5113.5	5160.6
10°	5085.3	5141.8
12.5°	5054.7	5108.8
15°	5028.8	5068.8
17.5°	5000.5	5024.1
20°	4962.8	4981.7
22.5°	4925.2	4915.8
25°	4882.8	4861.6
27.5°	4828.7	4788.6
30°	4779.2	4708.6
32.5°	4732.1	4616.8
35°	4668.6	4522.6
37.5°	4602.6	4426.1
40°	4524.9	4315.4
42.5°	4442.5	4204.8
45°	4339.0	4098.8
47.5°	4247.1	3971.7
50°	4120.0	3835.1
52.5°	3964.6	3708.0
55°	3781.0	3552.6
57.5°	3583.2	3390.2
60°	3371.3	3204.2
62.5°	3114.7	3011.1
65°	2813.4	2789.8
67.5°	2420.2	2545.0
70°	1984.7	2264.8
72.5°	1659.8	1968.2
75°	1360.8	1636.2
77.5°	1078.3	1283.1
80°	673.3	939.4
82.5°	452.0	616.8
85°	273.1	294.3
87.5°	105.9	108.3
90°	0.0	0.0

(END OF REPORT)