

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-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-LD5-136SL-RW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

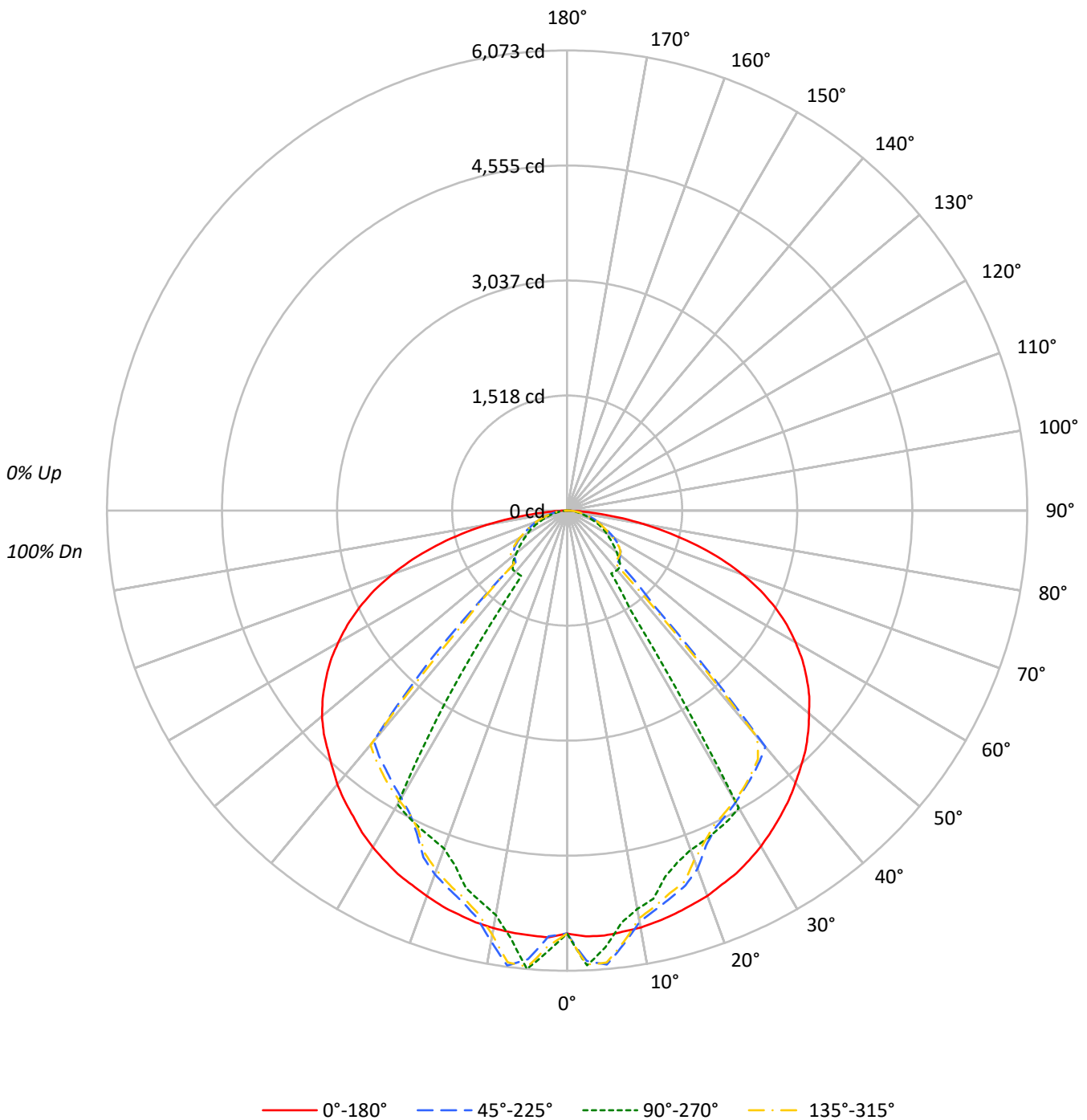
Lumens per Lamp: N/A
Luminaire Lumens: 11177.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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°	22552	22552	22552	22552
5°	22804	22722	22794	23847
10°	22858	20543	22889	20858
15°	22941	19007	22995	19610
20°	23142	18028	23142	17960
25°	23379	17683	23413	17518
30°	23656	17371	23714	17165
35°	23976	3957	24026	4126
40°	24411	4114	24557	4248
45°	25056	4091	25143	4240
50°	25714	3699	26061	3799
55°	26598	3284	26809	3332
60°	27392	2919	27453	2956
65°	28041	2547	27969	2506
70°	27874	2053	27787	1979
75°	26225	1580	26413	1514
80°	21815	1122	22691	1027
85°	12575	672	13283	515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.2	4.9
10°-20°	1509.9	13.5
20°-30°	2236.5	20.0
30°-40°	2253.4	20.2
40°-50°	1760.3	15.7
50°-60°	1359.7	12.2
60°-70°	912.9	8.2
70°-80°	465.7	4.2
80°-90°	129.6	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°	4295.5	38.4
0°-40°	6548.9	58.6
0°-60°	9668.9	86.5
0°-90°	11177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11177.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5582	5582	5582	5582	5582	
5°	5630	5786	5628	6073	5630	535
15°	5507	5001	5520	5159	5507	1558
25°	5282	4661	5290	4617	5282	2437
35°	4914	1013	4924	1056	4914	3080
45°	4453	985	4469	1021	4453	3434
55°	3860	716	3891	726	3860	3447
65°	3031	481	3024	473	3031	2981
75°	1778	243	1791	233	1778	1859
85°	320	77	338	59	320	440
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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5625.0	5645.5	5660.8	5671.0	5676.2	5676.2	5678.7	5681.3	5714.5	5729.9	5740.1
5°	5630.1	5650.6	5681.3	5722.2	5758.0	5788.7	5814.3	5850.1	5885.9	5924.3	5937.1
7.5°	5607.1	5632.7	5694.1	5768.2	5837.3	5885.9	5919.2	5942.2	5960.1	5962.6	5975.4
10°	5586.6	5632.7	5717.1	5814.3	5901.3	5960.1	5960.1	5947.3	5965.2	5896.1	5827.1
12.5°	5550.8	5602.0	5717.1	5845.0	5926.8	5949.9	5939.6	5888.5	5783.6	5699.2	5660.8
15°	5507.3	5576.4	5719.6	5862.9	5931.9	5939.6	5842.4	5712.0	5632.7	5581.5	5517.6
17.5°	5458.7	5550.8	5722.2	5865.4	5891.0	5855.2	5671.0	5589.2	5507.3	5387.1	5300.1
20°	5412.7	5502.2	5701.7	5829.6	5845.0	5683.8	5540.6	5453.6	5315.5	5210.6	5172.2
22.5°	5341.1	5445.9	5683.8	5781.0	5722.2	5535.5	5397.3	5259.2	5133.9	5103.2	5057.1
25°	5282.2	5392.2	5642.9	5722.2	5566.2	5399.9	5238.7	5077.6	5018.8	4975.3	4934.3
27.5°	5202.9	5338.5	5589.2	5614.8	5399.9	5254.1	5018.8	4947.1	4893.4	4844.8	4826.9
30°	5116.0	5282.2	5515.0	5466.4	5261.8	5046.9	4872.9	4806.4	4768.1	4716.9	4696.4
32.5°	5016.2	5197.8	5433.1	5295.0	5113.4	4844.8	4732.3	4681.1	4629.9	4591.6	4463.7
35°	4913.9	5123.6	5335.9	5131.3	4934.3	4691.3	4591.6	4545.5	4496.9	4356.2	4223.2
37.5°	4809.0	5041.8	5218.3	4954.8	4696.4	4532.7	4448.3	4397.2	4287.2	4108.1	4041.6
40°	4688.8	4942.0	5067.4	4773.2	4489.2	4371.6	4292.3	4241.1	3993.0	3913.7	3893.2
42.5°	4568.5	4844.8	4883.2	4596.7	4317.9	4200.2	4133.7	3964.9	3796.0	3755.1	3762.8
45°	4453.4	4739.9	4681.1	4346.0	4138.8	4041.6	3929.1	3696.3	3606.7	3627.2	3632.3
47.5°	4315.3	4614.6	4468.8	4095.3	3954.6	3857.4	3606.7	3466.1	3453.3	3481.4	3496.8
50°	4166.9	4473.9	4243.7	3867.7	3755.1	3640.0	3356.1	3284.4	3299.8	3327.9	3345.8
52.5°	4028.8	4315.3	4010.9	3655.3	3558.1	3294.7	3102.8	3115.6	3141.2	3174.4	3184.7
55°	3860.0	4123.5	3762.8	3440.5	3348.4	3003.1	2916.1	2946.8	2972.4	3000.5	3021.0
57.5°	3683.5	3903.5	3468.6	3200.0	3051.7	2744.7	2752.4	2772.8	2790.8	2824.0	1166.4
60°	3481.4	3652.8	3146.3	2977.5	2683.3	2540.1	2547.7	2583.6	2601.5	1452.9	803.2
62.5°	3271.7	3361.2	2854.7	2724.2	2345.7	2335.4	2371.2	2386.6	1624.3	767.4	752.0
65°	3031.2	3013.3	2568.2	2361.0	2115.4	2125.7	2164.0	2087.3	718.8	718.8	713.7
67.5°	2765.2	2657.7	2289.4	1954.3	1892.9	1915.9	1956.9	683.0	665.1	670.2	652.3
70°	2460.8	2309.9	2000.3	1655.0	1675.5	1698.5	660.0	619.0	611.4	598.6	562.8
72.5°	2138.5	1931.3	1637.1	1437.6	1450.4	910.6	578.1	557.6	532.1	506.5	468.1
75°	1777.8	1509.2	1202.2	1202.2	1220.2	519.3	503.9	470.7	442.5	409.3	386.3
77.5°	1394.1	1161.3	933.7	969.5	473.2	434.9	406.7	370.9	347.9	327.4	314.6
80°	1020.6	810.9	703.4	629.3	368.3	330.0	301.8	281.4	271.1	258.4	243.0
82.5°	670.2	488.6	488.6	296.7	258.4	227.7	220.0	204.6	194.4	186.7	179.1
85°	319.7	283.9	214.9	181.6	161.2	145.8	140.7	133.0	133.0	130.5	127.9
87.5°	117.7	127.9	94.6	92.1	87.0	84.4	87.0	87.0	89.5	87.0	84.4
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5765.7	5786.1	5801.5	5827.1	5860.3	5888.5	5914.0	5949.9	6006.1	6021.5	6034.3
5°	5937.1	5944.7	5962.6	5983.1	5988.2	6001.0	5998.5	6013.8	6021.5	6039.4	6001.0
7.5°	5947.3	5906.4	5857.8	5814.3	5783.6	5755.4	5737.5	5765.7	5781.0	5793.8	5755.4
10°	5732.4	5683.8	5655.7	5630.1	5599.4	5555.9	5497.1	5509.9	5504.8	5504.8	5492.0
12.5°	5596.9	5527.8	5456.2	5392.2	5364.1	5361.5	5364.1	5392.2	5392.2	5389.7	5374.3
15°	5384.5	5318.0	5282.2	5266.9	5266.9	5259.2	5259.2	5289.9	5282.2	5282.2	5274.5
17.5°	5243.9	5197.8	5172.2	5154.3	5146.7	5159.4	5174.8	5187.6	5190.1	5179.9	5139.0
20°	5128.7	5085.3	5054.6	5059.7	5057.1	5064.8	5072.5	5029.0	4975.3	4903.6	4870.4
22.5°	5008.5	4975.3	4952.2	4952.2	4921.5	4872.9	4801.3	4786.0	4778.3	4745.0	4716.9
25°	4893.4	4855.0	4821.8	4719.5	4655.5	4663.2	4650.4	4624.8	4622.3	4619.7	4629.9
27.5°	4778.3	4678.5	4550.6	4535.3	4509.7	4507.2	4522.5	4535.3	4535.3	4545.5	4558.3
30°	4540.4	4425.3	4402.3	4374.1	4384.4	4420.2	4427.9	4445.8	4450.9	4468.8	4479.0
32.5°	4323.0	4271.8	4251.4	4264.1	4297.4	4328.1	4346.0	4353.7	4366.5	4381.8	4394.6
35°	4146.5	4131.1	4149.0	4177.2	4210.4	4236.0	4251.4	4266.7	4279.5	4292.3	4302.5
37.5°	4016.0	4026.3	4051.8	4087.6	4120.9	4141.4	4154.2	4172.1	4190.0	4205.3	4143.9
40°	3893.2	3918.8	3947.0	3985.3	4013.5	4033.9	4046.7	4069.7	3916.3	1772.7	972.0
42.5°	3785.8	3813.9	3834.4	3865.1	3895.8	3911.1	3798.6	1695.9	959.2	954.1	966.9
45°	3655.3	3678.4	3711.6	3734.6	3762.8	2471.0	943.9	954.1	938.8	949.0	954.1
47.5°	3522.3	3558.1	3576.1	3412.3	1015.5	938.8	928.5	938.8	928.5	941.3	933.7
50°	3371.4	3414.9	2430.1	918.3	910.6	905.5	915.8	910.6	918.3	928.5	908.1
52.5°	3217.9	1992.7	890.2	885.1	890.2	885.1	903.0	890.2	892.7	882.5	856.9
55°	1089.7	862.0	854.4	851.8	867.2	867.2	867.2	846.7	833.9	808.3	790.4
57.5°	833.9	833.9	831.3	833.9	828.8	823.7	800.6	782.7	764.8	729.0	718.8
60°	790.4	790.4	790.4	790.4	767.4	757.2	721.3	706.0	675.3	657.4	647.2
62.5°	754.6	749.5	726.5	718.8	693.2	665.1	644.6	629.3	598.6	588.3	580.7
65°	703.4	685.5	657.4	626.7	613.9	583.2	573.0	550.0	534.6	526.9	521.8
67.5°	619.0	593.5	570.4	550.0	526.9	516.7	503.9	486.0	475.8	470.7	465.6
70°	529.5	511.6	488.6	475.8	460.4	452.8	434.9	429.7	422.1	414.4	406.7
72.5°	442.5	432.3	422.1	404.2	399.0	393.9	376.0	365.8	355.6	345.3	340.2
75°	370.9	363.2	358.1	342.8	335.1	319.7	307.0	299.3	291.6	283.9	278.8
77.5°	304.4	299.3	283.9	273.7	268.6	255.8	250.7	253.2	248.1	237.9	232.8
80°	237.9	232.8	220.0	220.0	214.9	209.8	204.6	199.5	194.4	186.7	181.6
82.5°	181.6	176.5	171.4	166.3	161.2	158.6	156.0	150.9	145.8	140.7	138.1
85°	127.9	125.3	122.8	120.2	117.7	115.1	112.6	107.4	102.3	99.8	97.2
87.5°	87.0	84.4	81.9	79.3	76.7	74.2	71.6	69.1	63.9	61.4	58.8
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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	6034.3	6047.1	6034.3	6006.1	5988.2	5980.6	5995.9	5995.9	6006.1	6018.9	6021.5
5°	5939.6	5908.9	5873.1	5837.3	5819.4	5809.2	5781.0	5786.1	5793.8	5798.9	5804.1
7.5°	5704.3	5663.4	5614.8	5568.7	5550.8	5535.5	5502.2	5502.2	5502.2	5504.8	5520.1
10°	5463.8	5445.9	5425.5	5394.8	5371.8	5364.1	5335.9	5343.6	5338.5	5346.2	5364.1
12.5°	5351.3	5330.8	5312.9	5282.2	5256.6	5246.4	5233.6	5241.3	5238.7	5251.5	5266.9
15°	5249.0	5238.7	5218.3	5195.3	5172.2	5151.8	5105.7	5090.4	5080.1	5067.4	5085.3
17.5°	5080.1	5008.5	4959.9	4924.1	4898.5	4880.6	4867.8	4867.8	4875.5	4883.2	4898.5
20°	4849.9	4829.5	4806.4	4768.1	4742.5	4732.3	4724.6	4724.6	4737.4	4747.6	4775.7
22.5°	4691.3	4688.8	4681.1	4663.2	4650.4	4650.4	4653.0	4658.1	4676.0	4691.3	4719.5
25°	4617.1	4627.4	4622.3	4612.0	4604.4	4606.9	4601.8	4606.9	4624.8	4640.2	4663.2
27.5°	4558.3	4573.7	4568.5	4553.2	4540.4	4545.5	4553.2	4548.1	4563.4	4581.3	4599.2
30°	4479.0	4481.6	4491.8	4473.9	4468.8	4476.5	4479.0	4484.1	4499.5	4512.3	4527.6
32.5°	4389.5	4410.0	4407.4	4389.5	4389.5	4397.2	4399.7	4228.3	3908.6	3366.3	3217.9
35°	4302.5	4325.5	4287.2	3614.4	2501.7	1335.3	1030.9	995.1	1002.7	1007.8	1013.0
37.5°	3182.1	1509.2	961.8	969.5	977.1	984.8	992.5	1000.2	1007.8	1015.5	1018.1
40°	956.7	954.1	961.8	972.0	979.7	984.8	995.1	1002.7	1010.4	1018.1	1020.6
42.5°	946.5	951.6	959.2	969.5	979.7	989.9	997.6	1007.8	1013.0	1018.1	1020.6
45°	941.3	951.6	961.8	969.5	977.1	982.3	987.4	989.9	987.4	987.4	992.5
47.5°	933.7	943.9	946.5	943.9	946.5	943.9	943.9	943.9	936.2	933.7	933.7
50°	905.5	905.5	900.4	890.2	887.6	885.1	879.9	877.4	867.2	864.6	864.6
52.5°	846.7	844.1	836.5	823.7	818.6	813.4	810.9	808.3	798.1	793.0	795.5
55°	777.6	772.5	764.8	749.5	746.9	741.8	739.3	736.7	726.5	731.6	723.9
57.5°	713.7	703.4	693.2	690.7	680.4	677.9	675.3	672.7	665.1	667.6	662.5
60°	636.9	634.4	629.3	619.0	619.0	616.5	616.5	611.4	606.2	603.7	603.7
62.5°	580.7	573.0	567.9	567.9	560.2	560.2	560.2	555.1	550.0	552.5	550.0
65°	519.3	516.7	514.2	509.0	509.0	506.5	506.5	501.4	493.7	496.2	491.1
67.5°	468.1	463.0	457.9	455.3	445.1	440.0	437.4	434.9	424.6	427.2	422.1
70°	404.2	396.5	391.4	386.3	378.6	373.5	373.5	368.3	360.7	363.2	358.1
72.5°	337.7	332.5	327.4	324.9	317.2	314.6	312.1	309.5	301.8	304.4	301.8
75°	281.4	281.4	278.8	276.3	268.6	260.9	255.8	253.2	248.1	250.7	245.6
77.5°	232.8	227.7	222.5	222.5	214.9	209.8	204.6	204.6	204.6	202.1	199.5
80°	181.6	176.5	176.5	173.9	168.8	163.7	161.2	161.2	158.6	158.6	156.0
82.5°	138.1	133.0	130.5	130.5	125.3	122.8	120.2	117.7	117.7	117.7	115.1
85°	97.2	92.1	89.5	89.5	84.4	81.9	81.9	79.3	79.3	76.7	76.7
87.5°	58.8	56.3	53.7	53.7	48.6	46.0	46.0	46.0	43.5	43.5	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	6021.5	6021.5	6003.6	6008.7	6001.0	6011.2	5998.5	5998.5	6013.8	6013.8	6024.0
5°	5806.6	5793.8	5791.3	5786.1	5760.6	5770.8	5758.0	5745.2	5763.1	5763.1	5786.1
7.5°	5512.4	5489.4	5499.7	5484.3	5469.0	5445.9	5453.6	5443.4	5456.2	5474.1	5497.1
10°	5361.5	5341.1	5353.8	5338.5	5346.2	5312.9	5315.5	5318.0	5330.8	5335.9	5356.4
12.5°	5264.3	5259.2	5254.1	5249.0	5254.1	5236.2	5225.9	5228.5	5233.6	5236.2	5251.5
15°	5059.7	5026.4	5036.7	5000.8	5003.4	5006.0	4985.5	5006.0	5003.4	5036.7	5067.4
17.5°	4893.4	4893.4	4875.5	4860.2	4849.9	4847.4	4832.0	4842.3	4832.0	4852.5	4860.2
20°	4778.3	4775.7	4773.2	4765.5	4739.9	4742.5	4750.2	4727.1	4724.6	4722.0	4737.4
22.5°	4724.6	4727.1	4716.9	4716.9	4693.9	4699.0	4701.6	4676.0	4678.5	4670.9	4678.5
25°	4668.3	4673.4	4660.6	4660.6	4655.5	4653.0	4640.2	4645.3	4629.9	4617.1	4629.9
27.5°	4601.8	4612.0	4601.8	4606.9	4596.7	4591.6	4583.9	4578.8	4563.4	4560.9	4568.5
30°	4540.4	4545.5	4543.0	4530.2	4527.6	4512.3	4519.9	4504.6	4489.2	4491.8	4496.9
32.5°	2327.8	2222.9	1713.8	1547.6	1532.2	1588.5	1882.7	2291.9	2969.8	3627.2	4100.4
35°	1015.5	1015.5	1015.5	1013.0	1013.0	1010.4	1007.8	1005.3	1002.7	1000.2	997.6
37.5°	1020.6	1020.6	1020.6	1020.6	1018.1	1015.5	1015.5	1010.4	1007.8	1005.3	1002.7
40°	1023.2	1025.7	1025.7	1025.7	1023.2	1023.2	1020.6	1015.5	1013.0	1007.8	1002.7
42.5°	1020.6	1023.2	1023.2	1020.6	1020.6	1018.1	1018.1	1015.5	1013.0	1010.4	1007.8
45°	987.4	989.9	984.8	984.8	982.3	982.3	982.3	982.3	982.3	984.8	984.8
47.5°	928.5	928.5	926.0	923.4	923.4	920.9	923.4	920.9	926.0	928.5	933.7
50°	859.5	859.5	854.4	851.8	851.8	851.8	851.8	854.4	856.9	862.0	867.2
52.5°	787.9	787.9	785.3	782.7	780.2	780.2	787.9	785.3	787.9	790.4	798.1
55°	718.8	721.3	716.2	716.2	713.7	713.7	713.7	716.2	718.8	721.3	729.0
57.5°	660.0	660.0	654.8	654.8	654.8	652.3	660.0	654.8	657.4	660.0	665.1
60°	601.1	598.6	598.6	596.0	596.0	596.0	601.1	598.6	598.6	601.1	606.2
62.5°	547.4	547.4	544.8	544.8	542.3	542.3	547.4	544.8	544.8	547.4	550.0
65°	486.0	486.0	483.5	480.9	488.6	480.9	488.6	483.5	488.6	491.1	496.2
67.5°	417.0	417.0	417.0	414.4	414.4	419.5	422.1	417.0	419.5	424.6	427.2
70°	355.6	355.6	353.0	353.0	353.0	358.1	360.7	355.6	358.1	360.7	365.8
72.5°	301.8	296.7	296.7	294.2	299.3	299.3	301.8	299.3	301.8	301.8	307.0
75°	248.1	243.0	243.0	243.0	248.1	245.6	248.1	245.6	248.1	248.1	250.7
77.5°	199.5	197.0	194.4	194.4	199.5	199.5	199.5	197.0	199.5	202.1	204.6
80°	156.0	153.5	150.9	150.9	156.0	156.0	156.0	158.6	156.0	158.6	161.2
82.5°	115.1	112.6	110.0	115.1	115.1	115.1	115.1	117.7	115.1	117.7	120.2
85°	76.7	74.2	71.6	76.7	76.7	76.7	76.7	79.3	76.7	79.3	81.9
87.5°	40.9	38.4	38.4	40.9	40.9	40.9	43.5	43.5	43.5	46.0	46.0
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	6039.4	6047.1	6044.5	6029.2	6013.8	5995.9	5983.1	5985.7	6011.2	6018.9	5995.9
5°	5786.1	5834.7	5834.7	5868.0	5850.1	5834.7	5845.0	5901.3	5929.4	5972.9	5988.2
7.5°	5525.2	5548.3	5545.7	5578.9	5573.8	5573.8	5581.5	5655.7	5691.5	5727.3	5737.5
10°	5379.4	5402.4	5399.9	5402.4	5394.8	5376.9	5376.9	5410.1	5440.8	5458.7	5463.8
12.5°	5274.5	5287.3	5284.8	5284.8	5279.7	5264.3	5261.8	5289.9	5323.2	5346.2	5348.7
15°	5118.5	5154.3	5162.0	5195.3	5187.6	5167.1	5172.2	5195.3	5215.7	5236.2	5228.5
17.5°	4885.7	4903.6	4906.2	4919.0	4913.9	4913.9	4944.6	5029.0	5085.3	5133.9	5139.0
20°	4752.7	4765.5	4760.4	4788.5	4775.7	4773.2	4780.9	4816.7	4842.3	4865.3	4906.2
22.5°	4688.8	4699.0	4691.3	4693.9	4670.9	4650.4	4645.3	4673.4	4701.6	4732.3	4732.3
25°	4635.1	4642.7	4640.2	4635.1	4617.1	4589.0	4583.9	4589.0	4599.2	4601.8	4583.9
27.5°	4571.1	4576.2	4576.2	4578.8	4555.8	4530.2	4525.1	4519.9	4530.2	4527.6	4499.5
30°	4504.6	4496.9	4499.5	4502.0	4481.6	4458.6	4448.3	4445.8	4456.0	4453.4	4425.3
32.5°	4346.0	4404.8	4410.0	4415.1	4397.2	4376.7	4366.5	4358.8	4363.9	4361.4	4335.8
35°	995.1	1013.0	1240.6	2808.7	3813.9	4223.2	4266.7	4256.5	4259.0	4259.0	4238.6
37.5°	997.6	995.1	992.5	984.8	977.1	972.0	1680.6	3583.7	4151.6	4154.2	4136.2
40°	997.6	995.1	992.5	987.4	977.1	969.5	956.7	946.5	969.5	2133.4	3903.5
42.5°	1002.7	997.6	992.5	987.4	977.1	966.9	956.7	943.9	951.6	946.5	933.7
45°	987.4	984.8	984.8	982.3	977.1	966.9	954.1	938.8	931.1	938.8	926.0
47.5°	938.8	941.3	949.0	951.6	951.6	954.1	946.5	936.2	923.4	931.1	915.8
50°	872.3	877.4	879.9	892.7	897.8	908.1	910.6	910.6	908.1	918.3	908.1
52.5°	800.6	805.8	818.6	823.7	828.8	844.1	849.2	856.9	862.0	877.4	887.6
55°	731.6	734.1	739.3	749.5	757.2	770.0	777.6	785.3	798.1	805.8	836.5
57.5°	667.6	670.2	680.4	683.0	688.1	698.3	706.0	716.2	726.5	731.6	767.4
60°	606.2	608.8	616.5	619.0	621.6	631.8	639.5	647.2	654.8	660.0	685.5
62.5°	552.5	552.5	560.2	560.2	562.8	570.4	575.5	580.7	588.3	590.9	603.7
65°	498.8	501.4	506.5	506.5	509.0	514.2	516.7	519.3	526.9	526.9	537.2
67.5°	432.3	434.9	442.5	447.6	450.2	460.4	463.0	465.6	470.7	473.2	478.3
70°	368.3	370.9	378.6	381.1	383.7	391.4	396.5	404.2	411.8	419.5	424.6
72.5°	309.5	312.1	319.7	319.7	327.4	330.0	335.1	337.7	345.3	350.4	358.1
75°	253.2	255.8	263.5	263.5	271.1	273.7	276.3	278.8	283.9	289.1	294.2
77.5°	207.2	207.2	217.4	222.5	227.7	227.7	230.2	230.2	230.2	232.8	237.9
80°	163.7	163.7	171.4	176.5	181.6	181.6	184.2	186.7	189.3	189.3	191.8
82.5°	122.8	122.8	130.5	133.0	138.1	138.1	138.1	140.7	143.2	140.7	145.8
85°	84.4	84.4	89.5	92.1	97.2	97.2	97.2	99.8	102.3	99.8	102.3
87.5°	48.6	51.2	53.7	56.3	58.8	61.4	61.4	61.4	63.9	63.9	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-LD5-136SL-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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5970.3	5939.6	5937.1	5901.3	5891.0	5893.6	5865.4	5855.2	5809.2	5798.9	5750.3
5°	5993.3	6008.7	6001.0	5998.5	6006.1	6001.0	5980.6	5970.3	5962.6	5942.2	5901.3
7.5°	5740.1	5750.3	5758.0	5791.3	5819.4	5868.0	5919.2	5952.4	5978.0	5983.1	5949.9
10°	5481.7	5530.3	5563.6	5614.8	5655.7	5683.8	5714.5	5742.7	5816.8	5891.0	5934.5
12.5°	5348.7	5361.5	5359.0	5387.1	5415.2	5489.4	5561.0	5602.0	5658.2	5691.5	5770.8
15°	5236.2	5238.7	5246.4	5266.9	5282.2	5307.8	5341.1	5402.4	5515.0	5566.2	5609.6
17.5°	5133.9	5133.9	5139.0	5156.9	5177.3	5200.4	5220.8	5246.4	5302.7	5387.1	5494.5
20°	4970.1	5041.8	5049.4	5046.9	5057.1	5100.6	5105.7	5151.8	5179.9	5213.2	5318.0
22.5°	4727.1	4770.6	4832.0	4926.7	4962.5	4982.9	4998.3	5018.8	5062.2	5100.6	5144.1
25°	4594.1	4622.3	4640.2	4668.3	4742.5	4862.7	4885.7	4908.8	4936.9	4965.0	5018.8
27.5°	4476.5	4473.9	4486.7	4512.3	4532.7	4596.7	4709.2	4798.8	4803.9	4844.8	4890.9
30°	4392.0	4376.7	4358.8	4353.7	4381.8	4415.1	4448.3	4589.0	4686.2	4706.7	4755.3
32.5°	4312.7	4287.2	4261.6	4241.1	4223.2	4251.4	4271.8	4333.2	4458.6	4576.2	4601.8
35°	4215.5	4190.0	4159.3	4136.2	4108.1	4105.6	4103.0	4161.8	4202.8	4343.4	4466.2
37.5°	4115.8	4087.6	4062.1	4036.5	4008.4	3987.9	3975.1	3990.4	4028.8	4090.2	4294.8
40°	4010.9	3977.7	3952.1	3931.6	3893.2	3877.9	3852.3	3842.1	3844.6	3898.4	4005.8
42.5°	2396.8	3821.6	3834.4	3811.4	3778.1	3757.7	3729.5	3716.7	3691.2	3716.7	3778.1
45°	923.4	933.7	2795.9	3693.7	3652.8	3627.2	3601.6	3588.8	3560.7	3540.2	3596.5
47.5°	905.5	915.8	895.3	1268.8	3486.5	3494.2	3463.5	3450.7	3422.6	3407.2	3391.9
50°	892.7	900.4	885.1	890.2	872.3	3194.9	3322.8	3307.5	3276.8	3258.9	3228.2
52.5°	879.9	879.9	869.7	856.9	851.8	854.4	2688.4	3161.7	3125.8	3107.9	3067.0
55°	839.0	844.1	854.4	833.9	828.8	826.2	818.6	2560.5	2959.6	2939.1	2903.3
57.5°	777.6	787.9	816.0	810.9	810.9	790.4	785.3	785.3	2376.4	2767.7	2731.9
60°	706.0	716.2	746.9	757.2	764.8	759.7	754.6	752.0	741.8	2504.3	2550.3
62.5°	631.8	642.1	652.3	685.5	695.8	708.6	723.9	716.2	706.0	706.0	2358.5
65°	552.5	567.9	573.0	603.7	616.5	639.5	652.3	670.2	665.1	662.5	675.3
67.5°	483.5	501.4	503.9	516.7	539.7	550.0	565.3	598.6	613.9	619.0	624.1
70°	424.6	434.9	442.5	447.6	463.0	465.6	493.7	516.7	539.7	565.3	573.0
72.5°	365.8	373.5	388.8	383.7	388.8	399.0	414.4	429.7	452.8	488.6	511.6
75°	299.3	304.4	314.6	319.7	330.0	337.7	347.9	360.7	381.1	399.0	429.7
77.5°	240.4	243.0	250.7	253.2	263.5	271.1	289.1	296.7	309.5	322.3	340.2
80°	194.4	194.4	197.0	197.0	204.6	212.3	225.1	232.8	248.1	258.4	258.4
82.5°	148.4	148.4	156.0	156.0	161.2	161.2	168.8	168.8	176.5	181.6	186.7
85°	104.9	107.4	112.6	110.0	115.1	112.6	117.7	122.8	125.3	122.8	120.2
87.5°	69.1	69.1	74.2	71.6	74.2	74.2	79.3	79.3	81.9	81.9	79.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5732.4	5694.1	5671.0	5642.9	5635.2	5627.5	5637.8	5637.8	5622.4	5609.6	5586.6
5°	5865.4	5824.5	5781.0	5735.0	5691.5	5645.5	5627.5	5625.0	5596.9	5581.5	5573.8
7.5°	5934.5	5914.0	5865.4	5801.5	5735.0	5653.1	5617.3	5596.9	5568.7	5563.6	5563.6
10°	5942.2	5919.2	5893.6	5847.5	5770.8	5663.4	5594.3	5553.4	5527.8	5545.7	5578.9
12.5°	5868.0	5911.5	5888.5	5857.8	5796.4	5665.9	5566.2	5504.8	5497.1	5543.1	5630.1
15°	5678.7	5806.6	5870.6	5839.9	5791.3	5660.8	5520.1	5448.5	5448.5	5543.1	5655.7
17.5°	5535.5	5635.2	5791.3	5816.8	5760.6	5650.6	5476.6	5392.2	5415.2	5553.4	5673.6
20°	5417.8	5479.2	5630.1	5773.4	5719.6	5627.5	5412.7	5325.7	5371.8	5538.0	5699.2
22.5°	5233.6	5356.4	5448.5	5660.8	5678.7	5584.1	5348.7	5243.9	5335.9	5538.0	5686.4
25°	5054.6	5202.9	5300.1	5507.3	5617.3	5530.3	5289.9	5156.9	5297.6	5530.3	5676.2
27.5°	4929.2	4998.3	5174.8	5323.2	5525.2	5458.7	5210.6	5062.2	5249.0	5489.4	5617.3
30°	4796.2	4842.3	5016.2	5156.9	5402.4	5376.9	5128.7	4957.4	5187.6	5451.0	5463.8
32.5°	4650.4	4701.6	4791.1	4995.7	5231.1	5300.1	5036.7	4852.5	5121.1	5392.2	5284.8
35°	4502.0	4540.4	4612.0	4832.0	5031.5	5185.0	4924.1	4732.3	5075.0	5302.7	5113.4
37.5°	4353.7	4394.6	4456.0	4640.2	4821.8	5077.6	4826.9	4612.0	4990.6	5144.1	4934.3
40°	4213.0	4236.0	4300.0	4415.1	4647.8	4967.6	4716.9	4486.7	4903.6	4942.0	4691.3
42.5°	3954.6	4069.7	4128.6	4220.7	4450.9	4816.7	4589.0	4353.7	4806.4	4739.9	4448.3
45°	3675.8	3926.5	3952.1	4044.2	4276.9	4655.5	4468.8	4223.2	4714.4	4566.0	4218.1
47.5°	3448.2	3629.8	3778.1	3854.9	4069.7	4466.2	4356.2	4113.2	4576.2	4346.0	3993.0
50°	3246.1	3343.3	3611.9	3668.1	3821.6	4238.6	4223.2	3985.3	4384.4	4069.7	3773.0
52.5°	3049.1	3118.2	3361.2	3481.4	3606.7	3993.0	4064.6	3860.0	4174.6	3793.5	3550.5
55°	2877.7	2900.7	3033.8	3287.0	3399.6	3744.9	3890.7	3714.2	3908.6	3530.0	3335.6
57.5°	2701.2	2680.8	2778.0	3102.8	3184.7	3491.6	3706.5	3565.8	3693.7	3261.4	3113.1
60°	2517.0	2488.9	2529.8	2744.7	2957.0	3241.0	3489.1	3402.1	3432.8	2995.4	2864.9
62.5°	2325.2	2297.1	2284.3	2419.8	2734.5	2982.6	3269.1	3220.5	3113.1	2752.4	2558.0
65°	2125.7	2097.5	2077.1	2130.8	2488.9	2647.5	3023.5	3010.7	2762.6	2496.6	2153.8
67.5°	647.2	1908.3	1864.8	1862.2	2097.5	2343.1	2757.5	2737.0	2409.6	2222.9	1854.5
70°	583.2	1547.6	1644.8	1621.8	1724.1	2033.6	2453.1	2437.8	2066.8	1782.9	1639.7
72.5°	534.6	547.4	1452.9	1427.4	1450.4	1729.2	2135.9	2095.0	1752.2	1406.9	1417.1
75°	457.9	480.9	501.4	1204.8	1174.1	1432.5	1790.6	1726.6	1445.3	1161.3	1184.3
77.5°	373.5	401.6	417.0	877.4	949.0	1020.6	1429.9	1345.5	995.1	928.5	442.5
80°	278.8	301.8	327.4	350.4	721.3	713.7	1061.6	977.1	693.2	578.1	345.3
82.5°	204.6	212.3	227.7	253.2	286.5	478.3	683.0	601.1	480.9	263.5	237.9
85°	127.9	138.1	145.8	153.5	173.9	286.5	337.7	268.6	202.1	161.2	150.9
87.5°	81.9	81.9	79.3	81.9	84.4	102.3	115.1	110.0	87.0	81.9	81.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5561.0	5525.2	5525.2	5515.0	5522.7	5522.7	5520.1	5522.7	5540.6	5550.8	5568.7
5°	5558.5	5548.3	5571.3	5599.4	5632.7	5673.6	5683.8	5719.6	5752.9	5796.4	5842.4
7.5°	5591.7	5627.5	5671.0	5717.1	5783.6	5832.2	5875.7	5919.2	5949.9	5990.8	6016.4
10°	5640.3	5712.0	5786.1	5845.0	5916.6	5957.5	5985.7	5990.8	5947.3	5878.2	5822.0
12.5°	5709.4	5793.8	5862.9	5919.2	5952.4	5937.1	5855.2	5770.8	5722.2	5650.6	5550.8
15°	5768.2	5845.0	5916.6	5893.6	5804.1	5719.6	5655.7	5555.9	5458.7	5392.2	5348.7
17.5°	5793.8	5868.0	5842.4	5722.2	5637.8	5540.6	5410.1	5333.4	5269.4	5218.3	5192.7
20°	5809.2	5796.4	5658.2	5571.3	5407.6	5318.0	5233.6	5162.0	5113.4	5087.8	5082.7
22.5°	5768.2	5612.2	5494.5	5338.5	5218.3	5144.1	5077.6	5018.8	4985.5	4965.0	4952.2
25°	5632.7	5451.0	5277.1	5154.3	5052.0	4988.1	4936.9	4888.3	4847.4	4837.1	4811.6
27.5°	5443.4	5295.0	5064.8	4970.1	4880.6	4849.9	4793.6	4745.0	4709.2	4678.5	4596.7
30°	5287.3	5052.0	4885.7	4798.8	4745.0	4709.2	4645.3	4594.1	4532.7	4420.2	4374.1
32.5°	5095.5	4862.7	4704.1	4655.5	4589.0	4558.3	4486.7	4374.1	4279.5	4233.5	4230.9
35°	4847.4	4655.5	4540.4	4496.9	4443.2	4392.0	4243.7	4141.4	4095.3	4100.4	4138.8
37.5°	4640.2	4468.8	4394.6	4333.2	4271.8	4141.4	4016.0	3967.4	3980.2	4005.8	4023.7
40°	4430.4	4300.0	4215.5	4166.9	4028.8	3900.9	3834.4	3852.3	3875.3	3893.2	3916.3
42.5°	4225.8	4133.7	4049.3	3954.6	3765.3	3696.3	3711.6	3734.6	3755.1	3780.7	3803.7
45°	4031.4	3949.5	3852.3	3637.4	3542.8	3560.7	3583.7	3601.6	3632.3	3650.2	3673.3
47.5°	3847.2	3760.2	3588.8	3399.6	3389.3	3425.1	3445.6	3468.6	3491.6	3445.6	1900.6
50°	3640.0	3550.5	3289.6	3217.9	3241.0	3274.2	3299.8	3322.8	2959.6	1176.7	905.5
52.5°	3435.4	3207.7	3041.4	3061.9	3084.9	3123.3	3141.2	2332.9	928.5	885.1	887.6
55°	3207.7	2916.1	2867.5	2893.1	2913.5	2951.9	1956.9	856.9	851.8	849.2	869.7
57.5°	2849.6	2673.1	2693.5	2719.1	2739.6	1933.8	833.9	828.8	831.3	833.9	836.5
60°	2529.8	2491.5	2514.5	2537.5	1795.7	805.8	790.4	793.0	803.2	795.5	775.1
62.5°	2276.6	2307.3	2330.3	2041.3	764.8	757.2	764.8	757.2	739.3	726.5	700.9
65°	2082.2	2112.9	2130.8	718.8	716.2	726.5	718.8	693.2	665.1	629.3	621.6
67.5°	1877.6	1908.3	683.0	665.1	675.3	662.5	631.8	601.1	580.7	550.0	537.2
70°	1665.2	713.7	619.0	616.5	598.6	578.1	544.8	514.2	488.6	475.8	463.0
72.5°	1202.2	565.3	557.6	537.2	506.5	478.3	450.2	432.3	419.5	411.8	404.2
75°	501.4	491.1	468.1	432.3	401.6	388.8	368.3	355.6	350.4	335.1	330.0
77.5°	419.5	399.0	365.8	340.2	322.3	314.6	299.3	283.9	276.3	273.7	263.5
80°	322.3	294.2	278.8	266.0	260.9	243.0	225.1	217.4	212.3	209.8	202.1
82.5°	220.0	209.8	199.5	181.6	181.6	173.9	166.3	161.2	156.0	156.0	150.9
85°	143.2	135.6	133.0	125.3	125.3	120.2	117.7	115.1	112.6	110.0	107.4
87.5°	81.9	81.9	84.4	81.9	81.9	79.3	76.7	74.2	71.6	71.6	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-LD5-136SL-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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5591.7	5617.3	5622.4	5709.4	5758.0	5755.4	5740.1	5786.1	5758.0	5742.7	5758.0
5°	5888.5	5919.2	5944.7	6039.4	6072.6	6088.0	6085.4	6111.0	6090.5	6072.6	6072.6
7.5°	6034.3	6044.5	6054.7	6031.7	6016.4	5990.8	5952.4	5896.1	5868.0	5837.3	5798.9
10°	5793.8	5760.6	5773.4	5727.3	5688.9	5660.8	5625.0	5578.9	5540.6	5512.4	5469.0
12.5°	5499.7	5497.1	5502.2	5509.9	5471.5	5448.5	5420.4	5387.1	5359.0	5328.3	5292.5
15°	5320.6	5323.2	5343.6	5335.9	5323.2	5310.4	5279.7	5269.4	5243.9	5210.6	5190.1
17.5°	5192.7	5205.5	5225.9	5215.7	5195.3	5182.5	5159.4	5136.4	5113.4	5087.8	5057.1
20°	5080.1	5092.9	5105.7	5092.9	5054.6	5036.7	5006.0	4934.3	4883.2	4832.0	4786.0
22.5°	4957.4	4965.0	4954.8	4913.9	4816.7	4770.6	4734.8	4714.4	4670.9	4642.7	4614.6
25°	4803.9	4760.4	4693.9	4647.8	4609.5	4589.0	4573.7	4571.1	4566.0	4560.9	4548.1
27.5°	4553.2	4537.9	4502.0	4484.1	4486.7	4494.4	4496.9	4504.6	4496.9	4486.7	4476.5
30°	4366.5	4374.1	4376.7	4381.8	4394.6	4402.3	4404.8	4415.1	4410.0	4402.3	4397.2
32.5°	4248.8	4266.7	4276.9	4292.3	4300.0	4312.7	4312.7	4328.1	4312.7	4310.2	4305.1
35°	4151.6	4166.9	4172.1	4195.1	4202.8	4215.5	4215.5	4228.3	4215.5	4085.1	3225.6
37.5°	4054.4	4069.7	4080.0	4100.4	4103.0	4110.7	3793.5	2775.4	1790.6	1386.4	1059.0
40°	3939.3	3957.2	3967.4	3975.1	2793.3	1772.7	1220.2	992.5	992.5	1000.2	1007.8
42.5°	3816.5	3829.3	2668.0	1552.7	966.9	964.4	972.0	979.7	987.4	997.6	1007.8
45°	3000.5	1514.3	961.8	938.8	946.5	956.7	966.9	977.1	989.9	1000.2	1005.3
47.5°	984.8	923.4	936.2	926.0	938.8	951.6	961.8	972.0	974.6	977.1	974.6
50°	910.6	910.6	918.3	918.3	928.5	933.7	933.7	933.7	923.4	920.9	913.2
52.5°	879.9	900.4	890.2	895.3	890.2	882.5	874.8	867.2	851.8	846.7	836.5
55°	864.6	872.3	846.7	839.0	828.8	808.3	798.1	787.9	775.1	770.0	757.2
57.5°	828.8	810.9	782.7	770.0	752.0	731.6	721.3	713.7	700.9	695.8	688.1
60°	762.3	726.5	708.6	693.2	672.7	654.8	647.2	642.1	631.8	629.3	621.6
62.5°	680.4	649.7	634.4	613.9	598.6	588.3	580.7	578.1	567.9	567.9	562.8
65°	590.9	575.5	562.8	542.3	534.6	524.4	521.8	519.3	514.2	511.6	506.5
67.5°	519.3	509.0	491.1	480.9	475.8	468.1	463.0	457.9	447.6	442.5	434.9
70°	455.3	447.6	429.7	422.1	411.8	399.0	391.4	386.3	378.6	373.5	365.8
72.5°	393.9	370.9	358.1	350.4	342.8	330.0	327.4	322.3	314.6	312.1	304.4
75°	317.2	299.3	291.6	286.5	278.8	271.1	271.1	271.1	263.5	260.9	258.4
77.5°	253.2	243.0	237.9	232.8	230.2	225.1	217.4	214.9	207.2	207.2	204.6
80°	194.4	189.3	184.2	181.6	179.1	173.9	168.8	166.3	158.6	158.6	156.0
82.5°	143.2	140.7	138.1	135.6	133.0	130.5	122.8	120.2	115.1	115.1	112.6
85°	102.3	99.8	94.6	92.1	92.1	89.5	81.9	79.3	74.2	74.2	74.2
87.5°	63.9	61.4	58.8	56.3	53.7	51.2	46.0	43.5	43.5	38.4	35.8
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-LD5-136SL-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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5727.3	5770.8	5765.7	5796.4	5804.1	5819.4	5824.5	5827.1	5788.7	5819.4	5822.0
5°	6065.0	6072.6	6077.8	6090.5	6103.3	6105.9	6093.1	6077.8	6082.9	6072.6	6047.1
7.5°	5793.8	5755.4	5747.8	5737.5	5732.4	5727.3	5704.3	5724.8	5701.7	5691.5	5655.7
10°	5461.3	5425.5	5422.9	5422.9	5430.6	5428.0	5422.9	5412.7	5433.1	5420.4	5412.7
12.5°	5287.3	5274.5	5282.2	5277.1	5297.6	5302.7	5297.6	5297.6	5292.5	5282.2	5287.3
15°	5182.5	5172.2	5179.9	5172.2	5187.6	5190.1	5177.3	5185.0	5172.2	5159.4	5154.3
17.5°	5044.3	5021.3	5003.4	4977.8	4980.4	4975.3	4959.9	4959.9	4947.1	4913.9	4916.4
20°	4778.3	4755.3	4745.0	4745.0	4757.8	4763.0	4760.4	4765.5	4752.7	4747.6	4727.1
22.5°	4612.0	4609.5	4614.6	4627.4	4647.8	4676.0	4678.5	4678.5	4678.5	4676.0	4650.4
25°	4553.2	4553.2	4558.3	4576.2	4591.6	4612.0	4617.1	4622.3	4617.1	4617.1	4594.1
27.5°	4486.7	4481.6	4491.8	4509.7	4527.6	4543.0	4555.8	4558.3	4550.6	4550.6	4558.3
30°	4404.8	4402.3	4415.1	4433.0	4448.3	4463.7	4476.5	4486.7	4476.5	4476.5	4468.8
32.5°	4320.4	4320.4	4325.5	4218.1	3911.1	3522.3	3530.0	3304.9	3148.9	2951.9	3212.8
35°	2696.1	1962.0	1685.7	1427.4	1245.7	1128.1	1125.5	1087.1	1069.2	1056.4	1053.9
37.5°	1018.1	1023.2	1033.4	1038.5	1046.2	1051.3	1053.9	1053.9	1053.9	1053.9	1051.3
40°	1015.5	1025.7	1033.4	1041.1	1048.8	1053.9	1053.9	1056.4	1059.0	1059.0	1059.0
42.5°	1018.1	1028.3	1038.5	1046.2	1051.3	1053.9	1056.4	1059.0	1059.0	1059.0	1059.0
45°	1015.5	1020.6	1020.6	1023.2	1023.2	1023.2	1025.7	1025.7	1023.2	1020.6	1025.7
47.5°	977.1	977.1	969.5	966.9	964.4	959.2	961.8	959.2	956.7	954.1	959.2
50°	910.6	900.4	895.3	890.2	887.6	882.5	885.1	882.5	879.9	874.8	882.5
52.5°	831.3	828.8	818.6	813.4	810.9	813.4	808.3	805.8	803.2	800.6	803.2
55°	754.6	744.4	741.8	736.7	734.1	736.7	734.1	731.6	729.0	726.5	729.0
57.5°	685.5	677.9	675.3	670.2	670.2	670.2	670.2	667.6	665.1	662.5	665.1
60°	619.0	613.9	611.4	611.4	608.8	608.8	608.8	606.2	603.7	603.7	606.2
62.5°	562.8	562.8	555.1	552.5	552.5	555.1	552.5	550.0	547.4	544.8	550.0
65°	503.9	493.7	491.1	486.0	480.9	483.5	480.9	478.3	475.8	473.2	478.3
67.5°	432.3	429.7	419.5	414.4	411.8	414.4	411.8	409.3	406.7	404.2	409.3
70°	363.2	363.2	353.0	350.4	347.9	347.9	345.3	345.3	342.8	340.2	345.3
72.5°	301.8	301.8	299.3	294.2	291.6	289.1	286.5	283.9	283.9	286.5	286.5
75°	250.7	245.6	235.3	237.9	235.3	232.8	232.8	230.2	227.7	232.8	230.2
77.5°	197.0	194.4	186.7	189.3	186.7	184.2	184.2	181.6	179.1	181.6	181.6
80°	148.4	148.4	145.8	143.2	143.2	140.7	138.1	138.1	135.6	138.1	138.1
82.5°	107.4	107.4	104.9	102.3	99.8	99.8	97.2	97.2	97.2	97.2	97.2
85°	69.1	66.5	66.5	61.4	61.4	61.4	58.8	58.8	58.8	58.8	58.8
87.5°	33.3	33.3	30.7	30.7	28.1	25.6	25.6	23.0	23.0	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5775.9	5809.2	5781.0	5793.8	5796.4	5839.9	5837.3	5847.5	5829.6	5809.2	5781.0
5°	6070.1	6054.7	6034.3	6082.9	6057.3	6088.0	6098.2	6118.7	6118.7	6116.1	6093.1
7.5°	5694.1	5660.8	5686.4	5704.3	5712.0	5691.5	5732.4	5778.5	5816.8	5839.9	5842.4
10°	5399.9	5410.1	5407.6	5415.2	5433.1	5430.6	5456.2	5481.7	5492.0	5507.3	5512.4
12.5°	5261.8	5259.2	5264.3	5282.2	5292.5	5289.9	5315.5	5330.8	5335.9	5338.5	5335.9
15°	5151.8	5133.9	5146.7	5149.2	5156.9	5156.9	5187.6	5210.6	5220.8	5225.9	5220.8
17.5°	4944.6	4901.1	4942.0	4942.0	4970.1	4965.0	5013.6	5052.0	5072.5	5087.8	5087.8
20°	4739.9	4719.5	4734.8	4729.7	4750.2	4747.6	4778.3	4803.9	4821.8	4834.6	4849.9
22.5°	4658.1	4663.2	4640.2	4642.7	4642.7	4640.2	4655.5	4668.3	4673.4	4681.1	4676.0
25°	4604.4	4609.5	4601.8	4589.0	4583.9	4589.0	4596.7	4612.0	4614.6	4609.5	4591.6
27.5°	4550.6	4535.3	4548.1	4525.1	4519.9	4530.2	4540.4	4543.0	4545.5	4545.5	4530.2
30°	4468.8	4456.0	4468.8	4458.6	4448.3	4458.6	4466.2	4466.2	4471.3	4473.9	4456.0
32.5°	3123.3	3148.9	3563.3	3813.9	4166.9	4346.0	4379.3	4379.3	4384.4	4384.4	4369.0
35°	1064.1	1066.7	1153.6	1250.9	1458.0	1713.8	2048.9	2222.9	2811.2	3514.7	4195.1
37.5°	1051.3	1048.8	1046.2	1043.7	1041.1	1038.5	1033.4	1030.9	1046.2	1240.6	1683.1
40°	1056.4	1053.9	1048.8	1046.2	1043.7	1038.5	1036.0	1030.9	1025.7	1020.6	1015.5
42.5°	1056.4	1053.9	1051.3	1048.8	1046.2	1043.7	1038.5	1033.4	1028.3	1020.6	1013.0
45°	1020.6	1020.6	1023.2	1023.2	1025.7	1025.7	1025.7	1023.2	1023.2	1020.6	1010.4
47.5°	954.1	954.1	961.8	961.8	966.9	972.0	972.0	977.1	984.8	989.9	992.5
50°	877.4	877.4	885.1	887.6	892.7	900.4	908.1	910.6	918.3	928.5	938.8
52.5°	800.6	800.6	808.3	808.3	813.4	821.1	828.8	831.3	841.6	851.8	864.6
55°	729.0	729.0	734.1	736.7	739.3	744.4	752.0	752.0	762.3	770.0	782.7
57.5°	665.1	670.2	670.2	670.2	672.7	677.9	683.0	683.0	690.7	698.3	708.6
60°	603.7	608.8	608.8	608.8	611.4	613.9	619.0	619.0	624.1	629.3	639.5
62.5°	547.4	552.5	552.5	555.1	555.1	557.6	562.8	560.2	565.3	567.9	575.5
65°	475.8	480.9	483.5	486.0	488.6	493.7	501.4	498.8	506.5	511.6	519.3
67.5°	406.7	411.8	411.8	414.4	417.0	422.1	427.2	427.2	434.9	440.0	450.2
70°	342.8	347.9	347.9	350.4	353.0	358.1	363.2	360.7	368.3	373.5	381.1
72.5°	283.9	289.1	289.1	291.6	291.6	296.7	301.8	307.0	307.0	312.1	317.2
75°	230.2	232.8	235.3	235.3	237.9	240.4	245.6	250.7	253.2	255.8	260.9
77.5°	181.6	184.2	186.7	186.7	189.3	191.8	194.4	204.6	209.8	212.3	212.3
80°	138.1	140.7	140.7	140.7	143.2	145.8	150.9	150.9	161.2	161.2	163.7
82.5°	97.2	99.8	99.8	99.8	102.3	107.4	110.0	112.6	117.7	120.2	120.2
85°	58.8	61.4	61.4	61.4	63.9	66.5	71.6	74.2	76.7	76.7	79.3
87.5°	23.0	25.6	28.1	28.1	30.7	33.3	35.8	38.4	40.9	40.9	43.5
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5750.3	5768.2	5750.3	5760.6	5773.4	5750.3	5696.6	5676.2	5668.5	5637.8	5617.3
5°	6070.1	6070.1	6062.4	6082.9	6080.3	6044.5	5988.2	5962.6	5937.1	5903.8	5878.2
7.5°	5842.4	5862.9	5875.7	5955.0	6006.1	6011.2	6047.1	6054.7	6065.0	6054.7	6039.4
10°	5515.0	5507.3	5543.1	5617.3	5660.8	5683.8	5752.9	5786.1	5814.3	5870.6	5929.4
12.5°	5330.8	5341.1	5356.4	5410.1	5451.0	5440.8	5469.0	5492.0	5525.2	5581.5	5665.9
15°	5208.0	5218.3	5233.6	5274.5	5300.1	5287.3	5302.7	5318.0	5341.1	5369.2	5420.4
17.5°	5075.0	5092.9	5110.8	5154.3	5177.3	5174.8	5187.6	5192.7	5200.4	5218.3	5254.1
20°	4867.8	4924.1	4959.9	5018.8	5052.0	5046.9	5069.9	5077.6	5087.8	5105.7	5121.1
22.5°	4678.5	4693.9	4711.8	4775.7	4832.0	4901.1	4916.4	4936.9	4962.5	4980.4	4995.7
25°	4571.1	4560.9	4568.5	4612.0	4642.7	4647.8	4670.9	4737.4	4806.4	4837.1	4872.9
27.5°	4507.2	4496.9	4494.4	4514.8	4519.9	4507.2	4502.0	4522.5	4573.7	4624.8	4732.3
30°	4438.1	4425.3	4415.1	4433.0	4440.6	4422.7	4389.5	4371.6	4402.3	4415.1	4458.6
32.5°	4356.2	4343.4	4338.3	4348.6	4353.7	4338.3	4302.5	4282.1	4276.9	4266.7	4276.9
35°	4264.1	4251.4	4243.7	4246.2	4256.5	4243.7	4213.0	4187.4	4174.6	4146.5	4126.0
37.5°	2197.3	3113.1	4041.6	4138.8	4149.0	4146.5	4115.8	4087.6	4074.9	4041.6	4031.4
40°	1005.3	1123.0	1685.7	2202.4	3177.0	4036.5	4008.4	3980.2	3957.2	3947.0	3908.6
42.5°	1002.7	1005.3	1007.8	995.1	1232.9	2100.1	3100.3	3870.2	3854.9	3829.3	3801.2
45°	1002.7	989.9	1000.2	984.8	989.9	987.4	1230.4	1985.0	3532.6	3691.2	3678.4
47.5°	992.5	984.8	995.1	982.3	966.9	974.6	964.4	977.1	1524.6	2586.1	3542.8
50°	946.5	951.6	969.5	966.9	954.1	964.4	946.5	961.8	949.0	1041.1	2005.5
52.5°	877.4	887.6	905.5	920.9	926.0	938.8	933.7	938.8	928.5	931.1	933.7
55°	795.5	808.3	823.7	846.7	856.9	877.4	892.7	900.4	913.2	910.6	890.2
57.5°	718.8	731.6	744.4	767.4	790.4	800.6	828.8	844.1	877.4	869.7	864.6
60°	647.2	657.4	670.2	675.3	703.4	721.3	746.9	762.3	805.8	816.0	831.3
62.5°	583.2	588.3	598.6	606.2	624.1	642.1	654.8	680.4	703.4	736.7	759.7
65°	524.4	529.5	537.2	542.3	544.8	570.4	578.1	606.2	613.9	649.7	670.2
67.5°	457.9	468.1	478.3	483.5	488.6	503.9	509.0	521.8	539.7	555.1	580.7
70°	388.8	396.5	406.7	414.4	424.6	434.9	450.2	457.9	470.7	480.9	501.4
72.5°	324.9	332.5	337.7	345.3	353.0	360.7	373.5	391.4	401.6	419.5	424.6
75°	263.5	271.1	276.3	281.4	289.1	294.2	299.3	317.2	327.4	342.8	358.1
77.5°	217.4	217.4	222.5	237.9	235.3	235.3	240.4	250.7	258.4	268.6	283.9
80°	168.8	171.4	173.9	186.7	189.3	191.8	189.3	197.0	204.6	207.2	217.4
82.5°	125.3	127.9	127.9	135.6	143.2	143.2	143.2	145.8	153.5	156.0	161.2
85°	84.4	87.0	89.5	92.1	97.2	99.8	102.3	102.3	107.4	110.0	112.6
87.5°	46.0	51.2	53.7	56.3	58.8	61.4	63.9	66.5	69.1	71.6	74.2
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5609.6	5596.9	5589.2	5568.7	5563.6	5530.3	5535.5	5530.3	5530.3	5538.0	5563.6
5°	5850.1	5788.7	5773.4	5729.9	5694.1	5632.7	5594.3	5573.8	5543.1	5530.3	5548.3
7.5°	6013.8	5967.8	5929.4	5891.0	5839.9	5768.2	5714.5	5653.1	5602.0	5553.4	5540.6
10°	5985.7	6036.8	6036.8	6013.8	5965.2	5893.6	5829.6	5752.9	5663.4	5586.6	5540.6
12.5°	5747.8	5837.3	5908.9	5962.6	6011.2	5962.6	5898.7	5837.3	5737.5	5625.0	5540.6
15°	5486.9	5578.9	5668.5	5781.0	5898.7	5947.3	5944.7	5873.1	5783.6	5665.9	5548.3
17.5°	5302.7	5366.6	5415.2	5538.0	5681.3	5806.6	5891.0	5896.1	5809.2	5704.3	5550.8
20°	5164.6	5210.6	5251.5	5320.6	5445.9	5599.4	5755.4	5842.4	5827.1	5712.0	5558.5
22.5°	5039.2	5072.5	5105.7	5156.9	5256.6	5356.4	5538.0	5717.1	5793.8	5699.2	5550.8
25°	4913.9	4949.7	4975.3	5011.1	5090.4	5172.2	5300.1	5522.7	5694.1	5688.9	5535.5
27.5°	4765.5	4814.1	4844.8	4893.4	4947.1	5008.5	5095.5	5305.2	5550.8	5637.8	5494.5
30°	4586.5	4658.1	4704.1	4757.8	4803.9	4857.6	4926.7	5054.6	5359.0	5538.0	5451.0
32.5°	4328.1	4456.0	4558.3	4609.5	4660.6	4706.7	4768.1	4875.5	5123.6	5402.4	5402.4
35°	4143.9	4202.8	4294.8	4443.2	4507.2	4553.2	4609.5	4693.9	4852.5	5241.3	5323.2
37.5°	4000.7	4023.7	4069.7	4215.5	4335.8	4410.0	4466.2	4519.9	4676.0	5021.3	5220.8
40°	3893.2	3885.6	3880.5	3949.5	4120.9	4238.6	4302.5	4356.2	4476.5	4757.8	5085.3
42.5°	3767.9	3760.2	3734.6	3752.6	3837.0	4033.9	4131.1	4190.0	4289.7	4481.6	4936.9
45°	3637.4	3624.7	3614.4	3596.5	3627.2	3737.2	3936.7	4023.7	4080.0	4251.4	4750.2
47.5°	3504.4	3486.5	3473.7	3458.4	3440.5	3491.6	3680.9	3837.0	3934.2	4041.6	4525.1
50°	3315.1	3338.2	3322.8	3304.9	3289.6	3279.3	3358.6	3614.4	3734.6	3821.6	4251.4
52.5°	1562.9	3038.9	3166.8	3148.9	3128.4	3110.5	3128.4	3322.8	3540.2	3609.3	3921.4
55°	890.2	1353.2	2816.3	2977.5	2959.6	2934.0	2918.7	2985.2	3310.0	3402.1	3619.5
57.5°	856.9	859.5	1243.2	2683.3	2783.1	2760.1	2742.2	2757.5	3033.8	3189.8	3356.1
60°	828.8	828.8	828.8	1186.9	2565.7	2573.3	2550.3	2524.7	2644.9	2951.9	3090.0
62.5°	767.4	782.7	790.4	790.4	1171.6	2376.4	2353.3	2345.7	2350.8	2665.4	2824.0
65°	688.1	723.9	739.3	749.5	749.5	1230.4	2151.3	2138.5	2120.6	2240.8	2555.4
67.5°	601.1	636.9	670.2	690.7	693.2	716.2	1284.1	1926.2	1900.6	1903.1	2268.9
70°	511.6	542.3	578.1	608.8	636.9	649.7	670.2	1598.7	1683.1	1647.3	1944.1
72.5°	442.5	455.3	480.9	511.6	544.8	575.5	593.5	636.9	1460.6	1422.2	1478.5
75°	368.3	378.6	396.5	417.0	442.5	478.3	509.0	539.7	775.1	1192.0	1184.3
77.5°	286.5	304.4	324.9	337.7	350.4	376.0	417.0	447.6	478.3	805.8	949.0
80°	220.0	232.8	243.0	255.8	271.1	289.1	304.4	340.2	376.0	404.2	726.5
82.5°	163.7	171.4	179.1	184.2	189.3	199.5	227.7	240.4	263.5	289.1	342.8
85°	115.1	120.2	125.3	127.9	130.5	133.0	143.2	145.8	168.8	173.9	207.2
87.5°	74.2	76.7	81.9	84.4	84.4	87.0	89.5	89.5	89.5	84.4	102.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	5581.5	5581.5
2.5°	5584.1	5625.0
5°	5576.4	5630.1
7.5°	5555.9	5607.1
10°	5525.2	5586.6
12.5°	5492.0	5550.8
15°	5463.8	5507.3
17.5°	5433.1	5458.7
20°	5392.2	5412.7
22.5°	5351.3	5341.1
25°	5305.2	5282.2
27.5°	5246.4	5202.9
30°	5192.7	5116.0
32.5°	5141.5	5016.2
35°	5072.5	4913.9
37.5°	5000.8	4809.0
40°	4916.4	4688.8
42.5°	4826.9	4568.5
45°	4714.4	4453.4
47.5°	4614.6	4315.3
50°	4476.5	4166.9
52.5°	4307.6	4028.8
55°	4108.1	3860.0
57.5°	3893.2	3683.5
60°	3663.0	3481.4
62.5°	3384.2	3271.7
65°	3056.8	3031.2
67.5°	2629.6	2765.2
70°	2156.4	2460.8
72.5°	1803.4	2138.5
75°	1478.5	1777.8
77.5°	1171.6	1394.1
80°	731.6	1020.6
82.5°	491.1	670.2
85°	296.7	319.7
87.5°	115.1	117.7
90°	0.0	0.0

(END OF REPORT)