

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

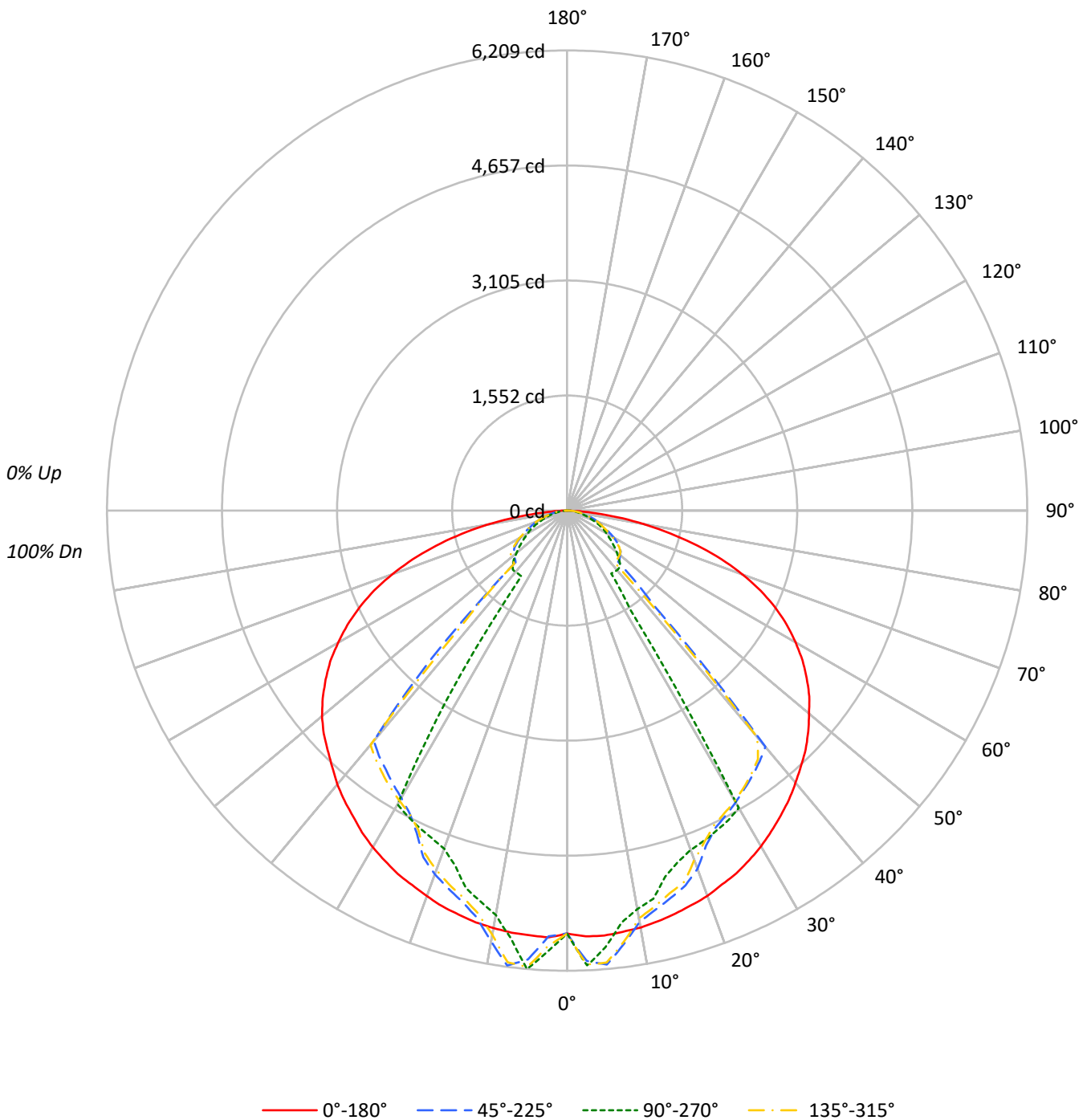
Lumens per Lamp: N/A
Luminaire Lumens: 11428.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23058	23058	23058	23058
5°	23316	23232	23306	24383
10°	23371	21005	23403	21327
15°	23457	19434	23511	20050
20°	23661	18433	23661	18363
25°	23904	18080	23939	17911
30°	24187	17761	24247	17551
35°	24514	4045	24565	4219
40°	24959	4207	25109	4343
45°	25618	4183	25707	4336
50°	26292	3782	26647	3885
55°	27195	3358	27412	3406
60°	28007	2984	28069	3022
65°	28671	2604	28598	2563
70°	28500	2099	28411	2023
75°	26813	1616	27006	1548
80°	22306	1147	23200	1050
85°	12859	688	13578	528



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.5	4.9
10°-20°	1543.8	13.5
20°-30°	2286.7	20.0
30°-40°	2304.0	20.2
40°-50°	1799.8	15.7
50°-60°	1390.2	12.2
60°-70°	933.4	8.2
70°-80°	476.1	4.2
80°-90°	132.5	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°	4392.0	38.4
0°-40°	6696.0	58.6
0°-60°	9886.0	86.5
0°-90°	11428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11428.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5707	5707	5707	5707	5707	
5°	5756	5916	5754	6209	5756	548
15°	5631	5113	5644	5275	5631	1593
25°	5401	4765	5409	4721	5401	2491
35°	5024	1036	5035	1080	5024	3149
45°	4553	1007	4569	1044	4553	3511
55°	3947	732	3978	743	3947	3525
65°	3099	492	3091	484	3099	3048
75°	1818	248	1831	238	1818	1901
85°	327	78	345	60	327	450
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5751.3	5772.2	5787.9	5798.4	5803.6	5803.6	5806.2	5808.9	5842.9	5858.5	5869.0
5°	5756.5	5777.5	5808.9	5850.7	5887.3	5918.7	5944.9	5981.5	6018.1	6057.3	6070.4
7.5°	5733.0	5759.2	5821.9	5897.8	5968.4	6018.1	6052.1	6075.6	6093.9	6096.5	6109.6
10°	5712.1	5759.2	5845.5	5944.9	6033.8	6093.9	6093.9	6080.9	6099.2	6028.5	5957.9
12.5°	5675.5	5727.8	5845.5	5976.2	6059.9	6083.5	6073.0	6020.7	5913.5	5827.2	5787.9
15°	5631.0	5701.6	5848.1	5994.5	6065.2	6073.0	5973.6	5840.2	5759.2	5706.8	5641.5
17.5°	5581.3	5675.5	5850.7	5997.2	6023.3	5986.7	5798.4	5714.7	5631.0	5508.1	5419.2
20°	5534.2	5625.8	5829.8	5960.5	5976.2	5811.5	5665.0	5576.1	5434.8	5327.6	5288.4
22.5°	5461.0	5568.2	5811.5	5910.9	5850.7	5659.8	5518.5	5377.3	5249.2	5217.8	5170.7
25°	5400.8	5513.3	5769.6	5850.7	5691.2	5521.2	5356.4	5191.6	5131.5	5087.0	5045.1
27.5°	5319.8	5458.4	5714.7	5740.8	5521.2	5372.1	5131.5	5058.2	5003.3	4953.6	4935.3
30°	5230.8	5400.8	5638.8	5589.2	5379.9	5160.2	4982.4	4914.4	4875.1	4822.8	4801.9
32.5°	5128.8	5314.5	5555.2	5413.9	5228.2	4953.6	4838.5	4786.2	4733.9	4694.7	4563.9
35°	5024.2	5238.7	5455.8	5246.5	5045.1	4796.7	4694.7	4647.6	4597.9	4454.1	4318.1
37.5°	4917.0	5155.0	5335.5	5066.1	4801.9	4634.5	4548.2	4495.9	4383.4	4200.4	4132.4
40°	4794.1	5053.0	5181.1	4880.4	4590.1	4469.8	4388.7	4336.4	4082.7	4001.6	3980.7
42.5°	4671.1	4953.6	4992.8	4699.9	4414.8	4294.5	4226.5	4053.9	3881.3	3839.4	3847.3
45°	4553.4	4846.4	4786.2	4443.6	4231.8	4132.4	4017.3	3779.3	3687.7	3708.7	3713.9
47.5°	4412.2	4718.2	4569.1	4187.3	4043.4	3944.1	3687.7	3543.9	3530.8	3559.6	3575.3
50°	4260.5	4574.4	4339.0	3954.5	3839.4	3721.7	3431.4	3358.2	3373.9	3402.7	3421.0
52.5°	4119.3	4412.2	4101.0	3737.4	3638.1	3368.7	3172.5	3185.6	3211.7	3245.7	3256.2
55°	3946.7	4216.1	3847.3	3517.7	3423.6	3070.5	2981.6	3013.0	3039.1	3067.9	3088.8
57.5°	3766.2	3991.1	3546.5	3271.9	3120.2	2806.3	2814.2	2835.1	2853.4	2887.4	1192.6
60°	3559.6	3734.8	3217.0	3044.4	2743.6	2597.1	2605.0	2641.6	2659.9	1485.6	821.2
62.5°	3345.1	3436.7	2918.8	2785.4	2398.3	2387.9	2424.5	2440.2	1660.8	784.6	768.9
65°	3099.3	3081.0	2625.9	2414.0	2163.0	2173.4	2212.6	2134.2	734.9	734.9	729.7
67.5°	2827.3	2717.4	2340.8	1998.2	1935.4	1959.0	2000.8	698.3	680.0	685.2	666.9
70°	2516.0	2361.7	2045.3	1692.2	1713.1	1736.6	674.8	632.9	625.1	612.0	575.4
72.5°	2186.5	1974.6	1673.9	1469.9	1482.9	931.1	591.1	570.2	544.0	517.9	478.6
75°	1817.7	1543.1	1229.2	1229.2	1247.6	530.9	515.2	481.2	452.5	418.5	394.9
77.5°	1425.4	1187.4	954.6	991.2	483.9	444.6	415.9	379.2	355.7	334.8	321.7
80°	1043.6	829.1	719.2	643.4	376.6	337.4	308.6	287.7	277.2	264.2	248.5
82.5°	685.2	499.5	499.5	303.4	264.2	232.8	224.9	209.2	198.8	190.9	183.1
85°	326.9	290.3	219.7	185.7	164.8	149.1	143.8	136.0	136.0	133.4	130.8
87.5°	120.3	130.8	96.8	94.2	88.9	86.3	88.9	88.9	91.5	88.9	86.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5895.2	5916.1	5931.8	5957.9	5991.9	6020.7	6046.9	6083.5	6141.0	6156.7	6169.8
5°	6070.4	6078.2	6096.5	6117.5	6122.7	6135.8	6133.2	6148.9	6156.7	6175.0	6135.8
7.5°	6080.9	6039.0	5989.3	5944.9	5913.5	5884.7	5866.4	5895.2	5910.9	5923.9	5884.7
10°	5861.2	5811.5	5782.7	5756.5	5725.2	5680.7	5620.5	5633.6	5628.4	5628.4	5615.3
12.5°	5722.5	5651.9	5578.7	5513.3	5484.5	5481.9	5484.5	5513.3	5513.3	5510.7	5495.0
15°	5505.5	5437.5	5400.8	5385.2	5385.2	5377.3	5377.3	5408.7	5400.8	5400.8	5393.0
17.5°	5361.6	5314.5	5288.4	5270.1	5262.2	5275.3	5291.0	5304.1	5306.7	5296.2	5254.4
20°	5243.9	5199.5	5168.1	5173.3	5170.7	5178.5	5186.4	5141.9	5087.0	5013.8	4979.8
22.5°	5121.0	5087.0	5063.5	5063.5	5032.1	4982.4	4909.1	4893.5	4885.6	4851.6	4822.8
25°	5003.3	4964.1	4930.1	4825.5	4760.1	4767.9	4754.8	4728.7	4726.1	4723.5	4733.9
27.5°	4885.6	4783.6	4652.8	4637.1	4611.0	4608.4	4624.1	4637.1	4637.1	4647.6	4660.7
30°	4642.4	4524.7	4501.1	4472.4	4482.8	4519.4	4527.3	4545.6	4550.8	4569.1	4579.6
32.5°	4420.1	4367.8	4346.8	4359.9	4393.9	4425.3	4443.6	4451.4	4464.5	4480.2	4493.3
35°	4239.6	4223.9	4242.2	4271.0	4305.0	4331.1	4346.8	4362.5	4375.6	4388.7	4399.1
37.5°	4106.2	4116.7	4142.8	4179.4	4213.4	4234.4	4247.4	4265.8	4284.1	4299.8	4237.0
40°	3980.7	4006.8	4035.6	4074.8	4103.6	4124.5	4137.6	4161.1	4004.2	1812.5	993.9
42.5°	3870.8	3899.6	3920.5	3951.9	3983.3	3999.0	3883.9	1734.0	980.8	975.6	988.6
45°	3737.4	3761.0	3795.0	3818.5	3847.3	2526.5	965.1	975.6	959.9	970.3	975.6
47.5°	3601.4	3638.1	3656.4	3489.0	1038.3	959.9	949.4	959.9	949.4	962.5	954.6
50°	3447.1	3491.6	2484.7	938.9	931.1	925.9	936.3	931.1	938.9	949.4	928.5
52.5°	3290.2	2037.4	910.2	904.9	910.2	904.9	923.2	910.2	912.8	902.3	876.2
55°	1114.2	881.4	873.6	870.9	886.6	886.6	886.6	865.7	852.6	826.5	808.2
57.5°	852.6	852.6	850.0	852.6	847.4	842.2	818.6	800.3	782.0	745.4	734.9
60°	808.2	808.2	808.2	808.2	784.6	774.2	737.5	721.9	690.5	672.2	661.7
62.5°	771.5	766.3	742.8	734.9	708.8	680.0	659.1	643.4	612.0	601.5	593.7
65°	719.2	700.9	672.2	640.8	627.7	596.3	585.9	562.3	546.6	538.8	533.5
67.5°	632.9	606.8	583.2	562.3	538.8	528.3	515.2	496.9	486.5	481.2	476.0
70°	541.4	523.1	499.5	486.5	470.8	462.9	444.6	439.4	431.5	423.7	415.9
72.5°	452.5	442.0	431.5	413.2	408.0	402.8	384.5	374.0	363.5	353.1	347.9
75°	379.2	371.4	366.2	350.5	342.6	326.9	313.9	306.0	298.2	290.3	285.1
77.5°	311.2	306.0	290.3	279.9	274.6	261.5	256.3	258.9	253.7	243.2	238.0
80°	243.2	238.0	224.9	224.9	219.7	214.5	209.2	204.0	198.8	190.9	185.7
82.5°	185.7	180.5	175.2	170.0	164.8	162.2	159.5	154.3	149.1	143.8	141.2
85°	130.8	128.2	125.5	122.9	120.3	117.7	115.1	109.8	104.6	102.0	99.4
87.5°	88.9	86.3	83.7	81.1	78.5	75.8	73.2	70.6	65.4	62.8	60.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	6169.8	6182.9	6169.8	6141.0	6122.7	6114.9	6130.5	6130.5	6141.0	6154.1	6156.7
5°	6073.0	6041.6	6005.0	5968.4	5950.1	5939.6	5910.9	5916.1	5923.9	5929.2	5934.4
7.5°	5832.4	5790.5	5740.8	5693.8	5675.5	5659.8	5625.8	5625.8	5625.8	5628.4	5644.1
10°	5586.5	5568.2	5547.3	5515.9	5492.4	5484.5	5455.8	5463.6	5458.4	5466.2	5484.5
12.5°	5471.5	5450.5	5432.2	5400.8	5374.7	5364.2	5351.2	5359.0	5356.4	5369.5	5385.2
15°	5366.8	5356.4	5335.5	5311.9	5288.4	5267.5	5220.4	5204.7	5194.2	5181.1	5199.5
17.5°	5194.2	5121.0	5071.3	5034.7	5008.5	4990.2	4977.1	4977.1	4985.0	4992.8	5008.5
20°	4958.8	4937.9	4914.4	4875.1	4849.0	4838.5	4830.7	4830.7	4843.8	4854.2	4883.0
22.5°	4796.7	4794.1	4786.2	4767.9	4754.8	4754.8	4757.5	4762.7	4781.0	4796.7	4825.5
25°	4720.8	4731.3	4726.1	4715.6	4707.8	4710.4	4705.1	4710.4	4728.7	4744.4	4767.9
27.5°	4660.7	4676.4	4671.1	4655.4	4642.4	4647.6	4655.4	4650.2	4665.9	4684.2	4702.5
30°	4579.6	4582.2	4592.7	4574.4	4569.1	4577.0	4579.6	4584.8	4600.5	4613.6	4629.3
32.5°	4488.1	4509.0	4506.4	4488.1	4488.1	4495.9	4498.5	4323.3	3996.4	3441.9	3290.2
35°	4399.1	4422.7	4383.4	3695.6	2557.9	1365.2	1054.0	1017.4	1025.2	1030.5	1035.7
37.5°	3253.6	1543.1	983.4	991.2	999.1	1006.9	1014.8	1022.6	1030.5	1038.3	1040.9
40°	978.2	975.6	983.4	993.9	1001.7	1006.9	1017.4	1025.2	1033.1	1040.9	1043.6
42.5°	967.7	972.9	980.8	991.2	1001.7	1012.2	1020.0	1030.5	1035.7	1040.9	1043.6
45°	962.5	972.9	983.4	991.2	999.1	1004.3	1009.6	1012.2	1009.6	1009.6	1014.8
47.5°	954.6	965.1	967.7	965.1	967.7	965.1	965.1	965.1	957.2	954.6	954.6
50°	925.9	925.9	920.6	910.2	907.6	904.9	899.7	897.1	886.6	884.0	884.0
52.5°	865.7	863.1	855.2	842.2	836.9	831.7	829.1	826.5	816.0	810.8	813.4
55°	795.1	789.9	782.0	766.3	763.7	758.5	755.9	753.2	742.8	748.0	740.2
57.5°	729.7	719.2	708.8	706.2	695.7	693.1	690.5	687.9	680.0	682.6	677.4
60°	651.2	648.6	643.4	632.9	632.9	630.3	630.3	625.1	619.9	617.2	617.2
62.5°	593.7	585.9	580.6	580.6	572.8	572.8	572.8	567.5	562.3	564.9	562.3
65°	530.9	528.3	525.7	520.5	520.5	517.9	517.9	512.6	504.8	507.4	502.2
67.5°	478.6	473.4	468.2	465.5	455.1	449.9	447.2	444.6	434.2	436.8	431.5
70°	413.2	405.4	400.2	394.9	387.1	381.9	381.9	376.6	368.8	371.4	366.2
72.5°	345.2	340.0	334.8	332.2	324.3	321.7	319.1	316.5	308.6	311.2	308.6
75°	287.7	287.7	285.1	282.5	274.6	266.8	261.5	258.9	253.7	256.3	251.1
77.5°	238.0	232.8	227.5	227.5	219.7	214.5	209.2	209.2	209.2	206.6	204.0
80°	185.7	180.5	180.5	177.8	172.6	167.4	164.8	164.8	162.2	162.2	159.5
82.5°	141.2	136.0	133.4	133.4	128.2	125.5	122.9	120.3	120.3	120.3	117.7
85°	99.4	94.2	91.5	91.5	86.3	83.7	83.7	81.1	81.1	78.5	78.5
87.5°	60.2	57.5	54.9	54.9	49.7	47.1	47.1	47.1	44.5	44.5	41.8
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	6156.7	6156.7	6138.4	6143.6	6135.8	6146.2	6133.2	6133.2	6148.9	6148.9	6159.3
5°	5937.0	5923.9	5921.3	5916.1	5889.9	5900.4	5887.3	5874.2	5892.5	5892.5	5916.1
7.5°	5636.2	5612.7	5623.2	5607.5	5591.8	5568.2	5576.1	5565.6	5578.7	5597.0	5620.5
10°	5481.9	5461.0	5474.1	5458.4	5466.2	5432.2	5434.8	5437.5	5450.5	5455.8	5476.7
12.5°	5382.5	5377.3	5372.1	5366.8	5372.1	5353.8	5343.3	5345.9	5351.2	5353.8	5369.5
15°	5173.3	5139.3	5149.8	5113.1	5115.8	5118.4	5097.5	5118.4	5115.8	5149.8	5181.1
17.5°	5003.3	5003.3	4985.0	4969.3	4958.8	4956.2	4940.5	4951.0	4940.5	4961.5	4969.3
20°	4885.6	4883.0	4880.4	4872.5	4846.4	4849.0	4856.8	4833.3	4830.7	4828.1	4843.8
22.5°	4830.7	4833.3	4822.8	4822.8	4799.3	4804.5	4807.1	4781.0	4783.6	4775.8	4783.6
25°	4773.1	4778.4	4765.3	4765.3	4760.1	4757.5	4744.4	4749.6	4733.9	4720.8	4733.9
27.5°	4705.1	4715.6	4705.1	4710.4	4699.9	4694.7	4686.8	4681.6	4665.9	4663.3	4671.1
30°	4642.4	4647.6	4645.0	4631.9	4629.3	4613.6	4621.4	4605.8	4590.1	4592.7	4597.9
32.5°	2380.0	2272.8	1752.3	1582.3	1566.6	1624.2	1925.0	2343.4	3036.5	3708.7	4192.5
35°	1038.3	1038.3	1038.3	1035.7	1035.7	1033.1	1030.5	1027.9	1025.2	1022.6	1020.0
37.5°	1043.6	1043.6	1043.6	1043.6	1040.9	1038.3	1038.3	1033.1	1030.5	1027.9	1025.2
40°	1046.2	1048.8	1048.8	1048.8	1046.2	1046.2	1043.6	1038.3	1035.7	1030.5	1025.2
42.5°	1043.6	1046.2	1046.2	1043.6	1043.6	1040.9	1040.9	1038.3	1035.7	1033.1	1030.5
45°	1009.6	1012.2	1006.9	1006.9	1004.3	1004.3	1004.3	1004.3	1004.3	1006.9	1006.9
47.5°	949.4	949.4	946.8	944.2	944.2	941.6	944.2	941.6	946.8	949.4	954.6
50°	878.8	878.8	873.6	870.9	870.9	870.9	870.9	873.6	876.2	881.4	886.6
52.5°	805.5	805.5	802.9	800.3	797.7	797.7	805.5	802.9	805.5	808.2	816.0
55°	734.9	737.5	732.3	732.3	729.7	729.7	729.7	732.3	734.9	737.5	745.4
57.5°	674.8	674.8	669.5	669.5	669.5	666.9	674.8	669.5	672.2	674.8	680.0
60°	614.6	612.0	612.0	609.4	609.4	609.4	614.6	612.0	612.0	614.6	619.9
62.5°	559.7	559.7	557.1	557.1	554.5	554.5	559.7	557.1	557.1	559.7	562.3
65°	496.9	496.9	494.3	491.7	499.5	491.7	499.5	494.3	499.5	502.2	507.4
67.5°	426.3	426.3	426.3	423.7	423.7	428.9	431.5	426.3	428.9	434.2	436.8
70°	363.5	363.5	360.9	360.9	360.9	366.2	368.8	363.5	366.2	368.8	374.0
72.5°	308.6	303.4	303.4	300.8	306.0	306.0	308.6	306.0	308.6	308.6	313.9
75°	253.7	248.5	248.5	248.5	253.7	251.1	253.7	251.1	253.7	253.7	256.3
77.5°	204.0	201.4	198.8	198.8	204.0	204.0	204.0	201.4	204.0	206.6	209.2
80°	159.5	156.9	154.3	154.3	159.5	159.5	159.5	162.2	159.5	162.2	164.8
82.5°	117.7	115.1	112.5	117.7	117.7	117.7	117.7	120.3	117.7	120.3	122.9
85°	78.5	75.8	73.2	78.5	78.5	78.5	78.5	81.1	78.5	81.1	83.7
87.5°	41.8	39.2	39.2	41.8	41.8	41.8	44.5	44.5	44.5	47.1	47.1
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	6175.0	6182.9	6180.2	6164.5	6148.9	6130.5	6117.5	6120.1	6146.2	6154.1	6130.5
5°	5916.1	5965.8	5965.8	5999.8	5981.5	5965.8	5976.2	6033.8	6062.5	6107.0	6122.7
7.5°	5649.3	5672.8	5670.2	5704.2	5699.0	5699.0	5706.8	5782.7	5819.3	5855.9	5866.4
10°	5500.2	5523.8	5521.2	5523.8	5515.9	5497.6	5497.6	5531.6	5563.0	5581.3	5586.5
12.5°	5393.0	5406.1	5403.5	5403.5	5398.2	5382.5	5379.9	5408.7	5442.7	5466.2	5468.8
15°	5233.5	5270.1	5277.9	5311.9	5304.1	5283.2	5288.4	5311.9	5332.8	5353.8	5345.9
17.5°	4995.5	5013.8	5016.4	5029.5	5024.2	5024.2	5055.6	5141.9	5199.5	5249.2	5254.4
20°	4859.5	4872.5	4867.3	4896.1	4883.0	4880.4	4888.2	4924.8	4951.0	4974.5	5016.4
22.5°	4794.1	4804.5	4796.7	4799.3	4775.8	4754.8	4749.6	4778.4	4807.1	4838.5	4838.5
25°	4739.1	4747.0	4744.4	4739.1	4720.8	4692.1	4686.8	4692.1	4702.5	4705.1	4686.8
27.5°	4673.8	4679.0	4679.0	4681.6	4658.1	4631.9	4626.7	4621.4	4631.9	4629.3	4600.5
30°	4605.8	4597.9	4600.5	4603.1	4582.2	4558.7	4548.2	4545.6	4556.1	4553.4	4524.7
32.5°	4443.6	4503.8	4509.0	4514.2	4495.9	4475.0	4464.5	4456.7	4461.9	4459.3	4433.1
35°	1017.4	1035.7	1268.5	2871.7	3899.6	4318.1	4362.5	4352.1	4354.7	4354.7	4333.8
37.5°	1020.0	1017.4	1014.8	1006.9	999.1	993.9	1718.3	3664.2	4244.8	4247.4	4229.1
40°	1020.0	1017.4	1014.8	1009.6	999.1	991.2	978.2	967.7	991.2	2181.3	3991.1
42.5°	1025.2	1020.0	1014.8	1009.6	999.1	988.6	978.2	965.1	972.9	967.7	954.6
45°	1009.6	1006.9	1006.9	1004.3	999.1	988.6	975.6	959.9	952.0	959.9	946.8
47.5°	959.9	962.5	970.3	972.9	972.9	975.6	967.7	957.2	944.2	952.0	936.3
50°	891.9	897.1	899.7	912.8	918.0	928.5	931.1	931.1	928.5	938.9	928.5
52.5°	818.6	823.9	836.9	842.2	847.4	863.1	868.3	876.2	881.4	897.1	907.6
55°	748.0	750.6	755.9	766.3	774.2	787.2	795.1	802.9	816.0	823.9	855.2
57.5°	682.6	685.2	695.7	698.3	703.5	714.0	721.9	732.3	742.8	748.0	784.6
60°	619.9	622.5	630.3	632.9	635.5	646.0	653.9	661.7	669.5	674.8	700.9
62.5°	564.9	564.9	572.8	572.8	575.4	583.2	588.5	593.7	601.5	604.2	617.2
65°	510.0	512.6	517.9	517.9	520.5	525.7	528.3	530.9	538.8	538.8	549.2
67.5°	442.0	444.6	452.5	457.7	460.3	470.8	473.4	476.0	481.2	483.9	489.1
70°	376.6	379.2	387.1	389.7	392.3	400.2	405.4	413.2	421.1	428.9	434.2
72.5°	316.5	319.1	326.9	326.9	334.8	337.4	342.6	345.2	353.1	358.3	366.2
75°	258.9	261.5	269.4	269.4	277.2	279.9	282.5	285.1	290.3	295.5	300.8
77.5°	211.8	211.8	222.3	227.5	232.8	232.8	235.4	235.4	235.4	238.0	243.2
80°	167.4	167.4	175.2	180.5	185.7	185.7	188.3	190.9	193.5	193.5	196.2
82.5°	125.5	125.5	133.4	136.0	141.2	141.2	141.2	143.8	146.5	143.8	149.1
85°	86.3	86.3	91.5	94.2	99.4	99.4	99.4	102.0	104.6	102.0	104.6
87.5°	49.7	52.3	54.9	57.5	60.2	62.8	62.8	62.8	65.4	65.4	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	6104.4	6073.0	6070.4	6033.8	6023.3	6025.9	5997.2	5986.7	5939.6	5929.2	5879.5
5°	6127.9	6143.6	6135.8	6133.2	6141.0	6135.8	6114.9	6104.4	6096.5	6075.6	6033.8
7.5°	5869.0	5879.5	5887.3	5921.3	5950.1	5999.8	6052.1	6086.1	6112.2	6117.5	6083.5
10°	5604.8	5654.5	5688.5	5740.8	5782.7	5811.5	5842.9	5871.6	5947.5	6023.3	6067.8
12.5°	5468.8	5481.9	5479.3	5508.1	5536.8	5612.7	5685.9	5727.8	5785.3	5819.3	5900.4
15°	5353.8	5356.4	5364.2	5385.2	5400.8	5427.0	5461.0	5523.8	5638.8	5691.2	5735.6
17.5°	5249.2	5249.2	5254.4	5272.7	5293.6	5317.2	5338.1	5364.2	5421.8	5508.1	5617.9
20°	5081.8	5155.0	5162.8	5160.2	5170.7	5215.1	5220.4	5267.5	5296.2	5330.2	5437.5
22.5°	4833.3	4877.8	4940.5	5037.3	5073.9	5094.8	5110.5	5131.5	5175.9	5215.1	5259.6
25°	4697.3	4726.1	4744.4	4773.1	4849.0	4971.9	4995.5	5019.0	5047.8	5076.5	5131.5
27.5°	4577.0	4574.4	4587.4	4613.6	4634.5	4699.9	4815.0	4906.5	4911.8	4953.6	5000.7
30°	4490.7	4475.0	4456.7	4451.4	4480.2	4514.2	4548.2	4692.1	4791.5	4812.4	4862.1
32.5°	4409.6	4383.4	4357.3	4336.4	4318.1	4346.8	4367.8	4430.5	4558.7	4679.0	4705.1
35°	4310.2	4284.1	4252.7	4229.1	4200.4	4197.8	4195.1	4255.3	4297.1	4441.0	4566.5
37.5°	4208.2	4179.4	4153.3	4127.1	4098.4	4077.4	4064.4	4080.1	4119.3	4182.1	4391.3
40°	4101.0	4067.0	4040.8	4019.9	3980.7	3965.0	3938.8	3928.4	3931.0	3985.9	4095.7
42.5°	2450.6	3907.4	3920.5	3897.0	3863.0	3842.1	3813.3	3800.2	3774.1	3800.2	3863.0
45°	944.2	954.6	2858.7	3776.7	3734.8	3708.7	3682.5	3669.4	3640.7	3619.7	3677.3
47.5°	925.9	936.3	915.4	1297.2	3564.8	3572.7	3541.3	3528.2	3499.4	3483.7	3468.0
50°	912.8	920.6	904.9	910.2	891.9	3266.7	3397.4	3381.7	3350.4	3332.0	3300.7
52.5°	899.7	899.7	889.2	876.2	870.9	873.6	2748.8	3232.7	3196.0	3177.7	3135.9
55°	857.9	863.1	873.6	852.6	847.4	844.8	836.9	2618.0	3026.0	3005.1	2968.5
57.5°	795.1	805.5	834.3	829.1	829.1	808.2	802.9	802.9	2429.7	2829.9	2793.3
60°	721.9	732.3	763.7	774.2	782.0	776.8	771.5	768.9	758.5	2560.5	2607.6
62.5°	646.0	656.5	666.9	700.9	711.4	724.5	740.2	732.3	721.9	721.9	2411.4
65°	564.9	580.6	585.9	617.2	630.3	653.9	666.9	685.2	680.0	677.4	690.5
67.5°	494.3	512.6	515.2	528.3	551.9	562.3	578.0	612.0	627.7	632.9	638.2
70°	434.2	444.6	452.5	457.7	473.4	476.0	504.8	528.3	551.9	578.0	585.9
72.5°	374.0	381.9	397.5	392.3	397.5	408.0	423.7	439.4	462.9	499.5	523.1
75°	306.0	311.2	321.7	326.9	337.4	345.2	355.7	368.8	389.7	408.0	439.4
77.5°	245.8	248.5	256.3	258.9	269.4	277.2	295.5	303.4	316.5	329.5	347.9
80°	198.8	198.8	201.4	201.4	209.2	217.1	230.2	238.0	253.7	264.2	264.2
82.5°	151.7	151.7	159.5	159.5	164.8	164.8	172.6	172.6	180.5	185.7	190.9
85°	107.2	109.8	115.1	112.5	117.7	115.1	120.3	125.5	128.2	125.5	122.9
87.5°	70.6	70.6	75.8	73.2	75.8	75.8	81.1	81.1	83.7	83.7	81.1
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5861.2	5821.9	5798.4	5769.6	5761.8	5753.9	5764.4	5764.4	5748.7	5735.6	5712.1
5°	5997.2	5955.3	5910.9	5863.8	5819.3	5772.2	5753.9	5751.3	5722.5	5706.8	5699.0
7.5°	6067.8	6046.9	5997.2	5931.8	5863.8	5780.1	5743.5	5722.5	5693.8	5688.5	5688.5
10°	6075.6	6052.1	6025.9	5978.9	5900.4	5790.5	5719.9	5678.1	5651.9	5670.2	5704.2
12.5°	5999.8	6044.2	6020.7	5989.3	5926.5	5793.2	5691.2	5628.4	5620.5	5667.6	5756.5
15°	5806.2	5937.0	6002.4	5971.0	5921.3	5787.9	5644.1	5570.8	5570.8	5667.6	5782.7
17.5°	5659.8	5761.8	5921.3	5947.5	5889.9	5777.5	5599.6	5513.3	5536.8	5678.1	5801.0
20°	5539.5	5602.2	5756.5	5903.0	5848.1	5753.9	5534.2	5445.3	5492.4	5662.4	5827.2
22.5°	5351.2	5476.7	5570.8	5787.9	5806.2	5709.5	5468.8	5361.6	5455.8	5662.4	5814.1
25°	5168.1	5319.8	5419.2	5631.0	5743.5	5654.5	5408.7	5272.7	5416.5	5654.5	5803.6
27.5°	5039.9	5110.5	5291.0	5442.7	5649.3	5581.3	5327.6	5175.9	5366.8	5612.7	5743.5
30°	4903.9	4951.0	5128.8	5272.7	5523.8	5497.6	5243.9	5068.7	5304.1	5573.5	5586.5
32.5°	4754.8	4807.1	4898.7	5107.9	5348.5	5419.2	5149.8	4961.5	5236.1	5513.3	5403.5
35°	4603.1	4642.4	4715.6	4940.5	5144.5	5301.5	5034.7	4838.5	5189.0	5421.8	5228.2
37.5°	4451.4	4493.3	4556.1	4744.4	4930.1	5191.6	4935.3	4715.6	5102.7	5259.6	5045.1
40°	4307.6	4331.1	4396.5	4514.2	4752.2	5079.1	4822.8	4587.4	5013.8	5053.0	4796.7
42.5°	4043.4	4161.1	4221.3	4315.4	4550.8	4924.8	4692.1	4451.4	4914.4	4846.4	4548.2
45°	3758.4	4014.7	4040.8	4135.0	4373.0	4760.1	4569.1	4318.1	4820.2	4668.5	4312.8
47.5°	3525.6	3711.3	3863.0	3941.4	4161.1	4566.5	4454.1	4205.6	4679.0	4443.6	4082.7
50°	3319.0	3418.4	3693.0	3750.5	3907.4	4333.8	4318.1	4074.8	4482.8	4161.1	3857.7
52.5°	3117.6	3188.2	3436.7	3559.6	3687.7	4082.7	4155.9	3946.7	4268.4	3878.7	3630.2
55°	2942.3	2965.9	3101.9	3360.8	3475.9	3829.0	3978.1	3797.6	3996.4	3609.3	3410.5
57.5°	2761.9	2741.0	2840.3	3172.5	3256.2	3570.0	3789.7	3645.9	3776.7	3334.7	3183.0
60°	2573.6	2544.8	2586.7	2806.3	3023.4	3313.7	3567.4	3478.5	3509.9	3062.7	2929.3
62.5°	2377.4	2348.6	2335.6	2474.2	2795.9	3049.6	3342.5	3292.8	3183.0	2814.2	2615.4
65°	2173.4	2144.6	2123.7	2178.6	2544.8	2707.0	3091.4	3078.4	2824.7	2552.7	2202.2
67.5°	661.7	1951.1	1906.6	1904.0	2144.6	2395.7	2819.4	2798.5	2463.7	2272.8	1896.2
70°	596.3	1582.3	1681.7	1658.2	1762.8	2079.3	2508.2	2492.5	2113.3	1822.9	1676.5
72.5°	546.6	559.7	1485.6	1459.4	1482.9	1768.0	2183.9	2142.0	1791.6	1438.5	1448.9
75°	468.2	491.7	512.6	1231.9	1200.5	1464.6	1830.8	1765.4	1477.7	1187.4	1210.9
77.5°	381.9	410.6	426.3	897.1	970.3	1043.6	1462.0	1375.7	1017.4	949.4	452.5
80°	285.1	308.6	334.8	358.3	737.5	729.7	1085.4	999.1	708.8	591.1	353.1
82.5°	209.2	217.1	232.8	258.9	292.9	489.1	698.3	614.6	491.7	269.4	243.2
85°	130.8	141.2	149.1	156.9	177.8	292.9	345.2	274.6	206.6	164.8	154.3
87.5°	83.7	83.7	81.1	83.7	86.3	104.6	117.7	112.5	88.9	83.7	83.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5685.9	5649.3	5649.3	5638.8	5646.7	5646.7	5644.1	5646.7	5665.0	5675.5	5693.8
5°	5683.3	5672.8	5696.4	5725.2	5759.2	5801.0	5811.5	5848.1	5882.1	5926.5	5973.6
7.5°	5717.3	5753.9	5798.4	5845.5	5913.5	5963.2	6007.6	6052.1	6083.5	6125.3	6151.5
10°	5767.0	5840.2	5916.1	5976.2	6049.5	6091.3	6120.1	6125.3	6080.9	6010.2	5952.7
12.5°	5837.6	5923.9	5994.5	6052.1	6086.1	6070.4	5986.7	5900.4	5850.7	5777.5	5675.5
15°	5897.8	5976.2	6049.5	6025.9	5934.4	5848.1	5782.7	5680.7	5581.3	5513.3	5468.8
17.5°	5923.9	5999.8	5973.6	5850.7	5764.4	5665.0	5531.6	5453.2	5387.8	5335.5	5309.3
20°	5939.6	5926.5	5785.3	5696.4	5529.0	5437.5	5351.2	5277.9	5228.2	5202.1	5196.8
22.5°	5897.8	5738.2	5617.9	5458.4	5335.5	5259.6	5191.6	5131.5	5097.5	5076.5	5063.5
25°	5759.2	5573.5	5395.6	5270.1	5165.5	5100.1	5047.8	4998.1	4956.2	4945.8	4919.6
27.5°	5565.6	5413.9	5178.5	5081.8	4990.2	4958.8	4901.3	4851.6	4815.0	4783.6	4699.9
30°	5406.1	5165.5	4995.5	4906.5	4851.6	4815.0	4749.6	4697.3	4634.5	4519.4	4472.4
32.5°	5209.9	4971.9	4809.8	4760.1	4692.1	4660.7	4587.4	4472.4	4375.6	4328.5	4325.9
35°	4956.2	4760.1	4642.4	4597.9	4543.0	4490.7	4339.0	4234.4	4187.3	4192.5	4231.8
37.5°	4744.4	4569.1	4493.3	4430.5	4367.8	4234.4	4106.2	4056.5	4069.6	4095.7	4114.1
40°	4529.9	4396.5	4310.2	4260.5	4119.3	3988.5	3920.5	3938.8	3962.4	3980.7	4004.2
42.5°	4320.7	4226.5	4140.2	4043.4	3849.9	3779.3	3795.0	3818.5	3839.4	3865.6	3889.1
45°	4121.9	4038.2	3938.8	3719.1	3622.4	3640.7	3664.2	3682.5	3713.9	3732.2	3755.7
47.5°	3933.6	3844.7	3669.4	3475.9	3465.4	3502.0	3523.0	3546.5	3570.0	3523.0	1943.3
50°	3721.7	3630.2	3363.4	3290.2	3313.7	3347.7	3373.9	3397.4	3026.0	1203.1	925.9
52.5°	3512.5	3279.7	3109.7	3130.7	3154.2	3193.4	3211.7	2385.3	949.4	904.9	907.6
55°	3279.7	2981.6	2931.9	2958.0	2979.0	3018.2	2000.8	876.2	870.9	868.3	889.2
57.5°	2913.6	2733.1	2754.0	2780.2	2801.1	1977.3	852.6	847.4	850.0	852.6	855.2
60°	2586.7	2547.4	2571.0	2594.5	1836.0	823.9	808.2	810.8	821.2	813.4	792.5
62.5°	2327.7	2359.1	2382.6	2087.1	782.0	774.2	782.0	774.2	755.9	742.8	716.6
65°	2129.0	2160.3	2178.6	734.9	732.3	742.8	734.9	708.8	680.0	643.4	635.5
67.5°	1919.7	1951.1	698.3	680.0	690.5	677.4	646.0	614.6	593.7	562.3	549.2
70°	1702.6	729.7	632.9	630.3	612.0	591.1	557.1	525.7	499.5	486.5	473.4
72.5°	1229.2	578.0	570.2	549.2	517.9	489.1	460.3	442.0	428.9	421.1	413.2
75°	512.6	502.2	478.6	442.0	410.6	397.5	376.6	363.5	358.3	342.6	337.4
77.5°	428.9	408.0	374.0	347.9	329.5	321.7	306.0	290.3	282.5	279.9	269.4
80°	329.5	300.8	285.1	272.0	266.8	248.5	230.2	222.3	217.1	214.5	206.6
82.5°	224.9	214.5	204.0	185.7	185.7	177.8	170.0	164.8	159.5	159.5	154.3
85°	146.5	138.6	136.0	128.2	128.2	122.9	120.3	117.7	115.1	112.5	109.8
87.5°	83.7	83.7	86.3	83.7	83.7	81.1	78.5	75.8	73.2	73.2	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5717.3	5743.5	5748.7	5837.6	5887.3	5884.7	5869.0	5916.1	5887.3	5871.6	5887.3
5°	6020.7	6052.1	6078.2	6175.0	6209.0	6224.7	6222.1	6248.2	6227.3	6209.0	6209.0
7.5°	6169.8	6180.2	6190.7	6167.2	6151.5	6125.3	6086.1	6028.5	5999.8	5968.4	5929.2
10°	5923.9	5889.9	5903.0	5855.9	5816.7	5787.9	5751.3	5704.2	5665.0	5636.2	5591.8
12.5°	5623.2	5620.5	5625.8	5633.6	5594.4	5570.8	5542.1	5508.1	5479.3	5447.9	5411.3
15°	5440.1	5442.7	5463.6	5455.8	5442.7	5429.6	5398.2	5387.8	5361.6	5327.6	5306.7
17.5°	5309.3	5322.4	5343.3	5332.8	5311.9	5298.8	5275.3	5251.8	5228.2	5202.1	5170.7
20°	5194.2	5207.3	5220.4	5207.3	5168.1	5149.8	5118.4	5045.1	4992.8	4940.5	4893.5
22.5°	5068.7	5076.5	5066.1	5024.2	4924.8	4877.8	4841.1	4820.2	4775.8	4747.0	4718.2
25°	4911.8	4867.3	4799.3	4752.2	4713.0	4692.1	4676.4	4673.8	4668.5	4663.3	4650.2
27.5°	4655.4	4639.8	4603.1	4584.8	4587.4	4595.3	4597.9	4605.8	4597.9	4587.4	4577.0
30°	4464.5	4472.4	4475.0	4480.2	4493.3	4501.1	4503.8	4514.2	4509.0	4501.1	4495.9
32.5°	4344.2	4362.5	4373.0	4388.7	4396.5	4409.6	4409.6	4425.3	4409.6	4407.0	4401.8
35°	4244.8	4260.5	4265.8	4289.3	4297.1	4310.2	4310.2	4323.3	4310.2	4176.8	3298.0
37.5°	4145.4	4161.1	4171.6	4192.5	4195.1	4203.0	3878.7	2837.7	1830.8	1417.6	1082.8
40°	4027.7	4046.1	4056.5	4064.4	2856.0	1812.5	1247.6	1014.8	1014.8	1022.6	1030.5
42.5°	3902.2	3915.3	2727.9	1587.6	988.6	986.0	993.9	1001.7	1009.6	1020.0	1030.5
45°	3067.9	1548.3	983.4	959.9	967.7	978.2	988.6	999.1	1012.2	1022.6	1027.9
47.5°	1006.9	944.2	957.2	946.8	959.9	972.9	983.4	993.9	996.5	999.1	996.5
50°	931.1	931.1	938.9	938.9	949.4	954.6	954.6	954.6	944.2	941.6	933.7
52.5°	899.7	920.6	910.2	915.4	910.2	902.3	894.5	886.6	870.9	865.7	855.2
55°	884.0	891.9	865.7	857.9	847.4	826.5	816.0	805.5	792.5	787.2	774.2
57.5°	847.4	829.1	800.3	787.2	768.9	748.0	737.5	729.7	716.6	711.4	703.5
60°	779.4	742.8	724.5	708.8	687.9	669.5	661.7	656.5	646.0	643.4	635.5
62.5°	695.7	664.3	648.6	627.7	612.0	601.5	593.7	591.1	580.6	580.6	575.4
65°	604.2	588.5	575.4	554.5	546.6	536.2	533.5	530.9	525.7	523.1	517.9
67.5°	530.9	520.5	502.2	491.7	486.5	478.6	473.4	468.2	457.7	452.5	444.6
70°	465.5	457.7	439.4	431.5	421.1	408.0	400.2	394.9	387.1	381.9	374.0
72.5°	402.8	379.2	366.2	358.3	350.5	337.4	334.8	329.5	321.7	319.1	311.2
75°	324.3	306.0	298.2	292.9	285.1	277.2	277.2	277.2	269.4	266.8	264.2
77.5°	258.9	248.5	243.2	238.0	235.4	230.2	222.3	219.7	211.8	211.8	209.2
80°	198.8	193.5	188.3	185.7	183.1	177.8	172.6	170.0	162.2	162.2	159.5
82.5°	146.5	143.8	141.2	138.6	136.0	133.4	125.5	122.9	117.7	117.7	115.1
85°	104.6	102.0	96.8	94.2	94.2	91.5	83.7	81.1	75.8	75.8	75.8
87.5°	65.4	62.8	60.2	57.5	54.9	52.3	47.1	44.5	44.5	39.2	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5855.9	5900.4	5895.2	5926.5	5934.4	5950.1	5955.3	5957.9	5918.7	5950.1	5952.7
5°	6201.2	6209.0	6214.2	6227.3	6240.4	6243.0	6229.9	6214.2	6219.5	6209.0	6182.9
7.5°	5923.9	5884.7	5876.9	5866.4	5861.2	5855.9	5832.4	5853.3	5829.8	5819.3	5782.7
10°	5583.9	5547.3	5544.7	5544.7	5552.5	5549.9	5544.7	5534.2	5555.2	5542.1	5534.2
12.5°	5406.1	5393.0	5400.8	5395.6	5416.5	5421.8	5416.5	5416.5	5411.3	5400.8	5406.1
15°	5298.8	5288.4	5296.2	5288.4	5304.1	5306.7	5293.6	5301.5	5288.4	5275.3	5270.1
17.5°	5157.6	5134.1	5115.8	5089.6	5092.2	5087.0	5071.3	5071.3	5058.2	5024.2	5026.8
20°	4885.6	4862.1	4851.6	4851.6	4864.7	4869.9	4867.3	4872.5	4859.5	4854.2	4833.3
22.5°	4715.6	4713.0	4718.2	4731.3	4752.2	4781.0	4783.6	4783.6	4783.6	4781.0	4754.8
25°	4655.4	4655.4	4660.7	4679.0	4694.7	4715.6	4720.8	4726.1	4720.8	4720.8	4697.3
27.5°	4587.4	4582.2	4592.7	4611.0	4629.3	4645.0	4658.1	4660.7	4652.8	4652.8	4660.7
30°	4503.8	4501.1	4514.2	4532.5	4548.2	4563.9	4577.0	4587.4	4577.0	4577.0	4569.1
32.5°	4417.4	4417.4	4422.7	4312.8	3999.0	3601.4	3609.3	3379.1	3219.6	3018.2	3285.0
35°	2756.7	2006.0	1723.6	1459.4	1273.7	1153.4	1150.8	1111.6	1093.2	1080.2	1077.6
37.5°	1040.9	1046.2	1056.6	1061.9	1069.7	1074.9	1077.6	1077.6	1077.6	1077.6	1074.9
40°	1038.3	1048.8	1056.6	1064.5	1072.3	1077.6	1077.6	1080.2	1082.8	1082.8	1082.8
42.5°	1040.9	1051.4	1061.9	1069.7	1074.9	1077.6	1080.2	1082.8	1082.8	1082.8	1082.8
45°	1038.3	1043.6	1043.6	1046.2	1046.2	1046.2	1048.8	1048.8	1046.2	1043.6	1048.8
47.5°	999.1	999.1	991.2	988.6	986.0	980.8	983.4	980.8	978.2	975.6	980.8
50°	931.1	920.6	915.4	910.2	907.6	902.3	904.9	902.3	899.7	894.5	902.3
52.5°	850.0	847.4	836.9	831.7	829.1	831.7	826.5	823.9	821.2	818.6	821.2
55°	771.5	761.1	758.5	753.2	750.6	753.2	750.6	748.0	745.4	742.8	745.4
57.5°	700.9	693.1	690.5	685.2	685.2	685.2	685.2	682.6	680.0	677.4	680.0
60°	632.9	627.7	625.1	625.1	622.5	622.5	622.5	619.9	617.2	617.2	619.9
62.5°	575.4	575.4	567.5	564.9	564.9	567.5	564.9	562.3	559.7	557.1	562.3
65°	515.2	504.8	502.2	496.9	491.7	494.3	491.7	489.1	486.5	483.9	489.1
67.5°	442.0	439.4	428.9	423.7	421.1	423.7	421.1	418.5	415.9	413.2	418.5
70°	371.4	371.4	360.9	358.3	355.7	355.7	353.1	353.1	350.5	347.9	353.1
72.5°	308.6	308.6	306.0	300.8	298.2	295.5	292.9	290.3	290.3	292.9	292.9
75°	256.3	251.1	240.6	243.2	240.6	238.0	238.0	235.4	232.8	238.0	235.4
77.5°	201.4	198.8	190.9	193.5	190.9	188.3	188.3	185.7	183.1	185.7	185.7
80°	151.7	151.7	149.1	146.5	146.5	143.8	141.2	141.2	138.6	141.2	141.2
82.5°	109.8	109.8	107.2	104.6	102.0	102.0	99.4	99.4	99.4	99.4	99.4
85°	70.6	68.0	68.0	62.8	62.8	62.8	60.2	60.2	60.2	60.2	60.2
87.5°	34.0	34.0	31.4	31.4	28.8	26.2	26.2	23.5	23.5	26.2	26.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5905.6	5939.6	5910.9	5923.9	5926.5	5971.0	5968.4	5978.9	5960.5	5939.6	5910.9
5°	6206.4	6190.7	6169.8	6219.5	6193.3	6224.7	6235.2	6256.1	6256.1	6253.5	6229.9
7.5°	5821.9	5787.9	5814.1	5832.4	5840.2	5819.3	5861.2	5908.2	5947.5	5971.0	5973.6
10°	5521.2	5531.6	5529.0	5536.8	5555.2	5552.5	5578.7	5604.8	5615.3	5631.0	5636.2
12.5°	5379.9	5377.3	5382.5	5400.8	5411.3	5408.7	5434.8	5450.5	5455.8	5458.4	5455.8
15°	5267.5	5249.2	5262.2	5264.8	5272.7	5272.7	5304.1	5327.6	5338.1	5343.3	5338.1
17.5°	5055.6	5011.1	5053.0	5053.0	5081.8	5076.5	5126.2	5165.5	5186.4	5202.1	5202.1
20°	4846.4	4825.5	4841.1	4835.9	4856.8	4854.2	4885.6	4911.8	4930.1	4943.1	4958.8
22.5°	4762.7	4767.9	4744.4	4747.0	4747.0	4744.4	4760.1	4773.1	4778.4	4786.2	4781.0
25°	4707.8	4713.0	4705.1	4692.1	4686.8	4692.1	4699.9	4715.6	4718.2	4713.0	4694.7
27.5°	4652.8	4637.1	4650.2	4626.7	4621.4	4631.9	4642.4	4645.0	4647.6	4647.6	4631.9
30°	4569.1	4556.1	4569.1	4558.7	4548.2	4558.7	4566.5	4566.5	4571.8	4574.4	4556.1
32.5°	3193.4	3219.6	3643.3	3899.6	4260.5	4443.6	4477.6	4477.6	4482.8	4482.8	4467.1
35°	1088.0	1090.6	1179.6	1278.9	1490.8	1752.3	2095.0	2272.8	2874.3	3593.6	4289.3
37.5°	1074.9	1072.3	1069.7	1067.1	1064.5	1061.9	1056.6	1054.0	1069.7	1268.5	1720.9
40°	1080.2	1077.6	1072.3	1069.7	1067.1	1061.9	1059.2	1054.0	1048.8	1043.6	1038.3
42.5°	1080.2	1077.6	1074.9	1072.3	1069.7	1067.1	1061.9	1056.6	1051.4	1043.6	1035.7
45°	1043.6	1043.6	1046.2	1046.2	1048.8	1048.8	1048.8	1046.2	1046.2	1043.6	1033.1
47.5°	975.6	975.6	983.4	983.4	988.6	993.9	993.9	999.1	1006.9	1012.2	1014.8
50°	897.1	897.1	904.9	907.6	912.8	920.6	928.5	931.1	938.9	949.4	959.9
52.5°	818.6	818.6	826.5	826.5	831.7	839.6	847.4	850.0	860.5	870.9	884.0
55°	745.4	745.4	750.6	753.2	755.9	761.1	768.9	768.9	779.4	787.2	800.3
57.5°	680.0	685.2	685.2	685.2	687.9	693.1	698.3	698.3	706.2	714.0	724.5
60°	617.2	622.5	622.5	622.5	625.1	627.7	632.9	632.9	638.2	643.4	653.9
62.5°	559.7	564.9	564.9	567.5	567.5	570.2	575.4	572.8	578.0	580.6	588.5
65°	486.5	491.7	494.3	496.9	499.5	504.8	512.6	510.0	517.9	523.1	530.9
67.5°	415.9	421.1	421.1	423.7	426.3	431.5	436.8	436.8	444.6	449.9	460.3
70°	350.5	355.7	355.7	358.3	360.9	366.2	371.4	368.8	376.6	381.9	389.7
72.5°	290.3	295.5	295.5	298.2	298.2	303.4	308.6	313.9	313.9	319.1	324.3
75°	235.4	238.0	240.6	240.6	243.2	245.8	251.1	256.3	258.9	261.5	266.8
77.5°	185.7	188.3	190.9	190.9	193.5	196.2	198.8	209.2	214.5	217.1	217.1
80°	141.2	143.8	143.8	143.8	146.5	149.1	154.3	154.3	164.8	164.8	167.4
82.5°	99.4	102.0	102.0	102.0	104.6	109.8	112.5	115.1	120.3	122.9	122.9
85°	60.2	62.8	62.8	62.8	65.4	68.0	73.2	75.8	78.5	78.5	81.1
87.5°	23.5	26.2	28.8	28.8	31.4	34.0	36.6	39.2	41.8	41.8	44.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5879.5	5897.8	5879.5	5889.9	5903.0	5879.5	5824.5	5803.6	5795.8	5764.4	5743.5
5°	6206.4	6206.4	6198.5	6219.5	6216.9	6180.2	6122.7	6096.5	6070.4	6036.4	6010.2
7.5°	5973.6	5994.5	6007.6	6088.7	6141.0	6146.2	6182.9	6190.7	6201.2	6190.7	6175.0
10°	5638.8	5631.0	5667.6	5743.5	5787.9	5811.5	5882.1	5916.1	5944.9	6002.4	6062.5
12.5°	5450.5	5461.0	5476.7	5531.6	5573.5	5563.0	5591.8	5615.3	5649.3	5706.8	5793.2
15°	5325.0	5335.5	5351.2	5393.0	5419.2	5406.1	5421.8	5437.5	5461.0	5489.8	5542.1
17.5°	5189.0	5207.3	5225.6	5270.1	5293.6	5291.0	5304.1	5309.3	5317.2	5335.5	5372.1
20°	4977.1	5034.7	5071.3	5131.5	5165.5	5160.2	5183.8	5191.6	5202.1	5220.4	5236.1
22.5°	4783.6	4799.3	4817.6	4883.0	4940.5	5011.1	5026.8	5047.8	5073.9	5092.2	5107.9
25°	4673.8	4663.3	4671.1	4715.6	4747.0	4752.2	4775.8	4843.8	4914.4	4945.8	4982.4
27.5°	4608.4	4597.9	4595.3	4616.2	4621.4	4608.4	4603.1	4624.1	4676.4	4728.7	4838.5
30°	4537.8	4524.7	4514.2	4532.5	4540.4	4522.1	4488.1	4469.8	4501.1	4514.2	4558.7
32.5°	4454.1	4441.0	4435.8	4446.2	4451.4	4435.8	4399.1	4378.2	4373.0	4362.5	4373.0
35°	4359.9	4346.8	4339.0	4341.6	4352.1	4339.0	4307.6	4281.4	4268.4	4239.6	4218.7
37.5°	2246.6	3183.0	4132.4	4231.8	4242.2	4239.6	4208.2	4179.4	4166.4	4132.4	4121.9
40°	1027.9	1148.2	1723.6	2251.9	3248.4	4127.1	4098.4	4069.6	4046.1	4035.6	3996.4
42.5°	1025.2	1027.9	1030.5	1017.4	1260.6	2147.3	3169.9	3957.1	3941.4	3915.3	3886.5
45°	1025.2	1012.2	1022.6	1006.9	1012.2	1009.6	1258.0	2029.6	3611.9	3774.1	3761.0
47.5°	1014.8	1006.9	1017.4	1004.3	988.6	996.5	986.0	999.1	1558.8	2644.2	3622.4
50°	967.7	972.9	991.2	988.6	975.6	986.0	967.7	983.4	970.3	1064.5	2050.5
52.5°	897.1	907.6	925.9	941.6	946.8	959.9	954.6	959.9	949.4	952.0	954.6
55°	813.4	826.5	842.2	865.7	876.2	897.1	912.8	920.6	933.7	931.1	910.2
57.5°	734.9	748.0	761.1	784.6	808.2	818.6	847.4	863.1	897.1	889.2	884.0
60°	661.7	672.2	685.2	690.5	719.2	737.5	763.7	779.4	823.9	834.3	850.0
62.5°	596.3	601.5	612.0	619.9	638.2	656.5	669.5	695.7	719.2	753.2	776.8
65°	536.2	541.4	549.2	554.5	557.1	583.2	591.1	619.9	627.7	664.3	685.2
67.5°	468.2	478.6	489.1	494.3	499.5	515.2	520.5	533.5	551.9	567.5	593.7
70°	397.5	405.4	415.9	423.7	434.2	444.6	460.3	468.2	481.2	491.7	512.6
72.5°	332.2	340.0	345.2	353.1	360.9	368.8	381.9	400.2	410.6	428.9	434.2
75°	269.4	277.2	282.5	287.7	295.5	300.8	306.0	324.3	334.8	350.5	366.2
77.5°	222.3	222.3	227.5	243.2	240.6	240.6	245.8	256.3	264.2	274.6	290.3
80°	172.6	175.2	177.8	190.9	193.5	196.2	193.5	201.4	209.2	211.8	222.3
82.5°	128.2	130.8	130.8	138.6	146.5	146.5	146.5	149.1	156.9	159.5	164.8
85°	86.3	88.9	91.5	94.2	99.4	102.0	104.6	104.6	109.8	112.5	115.1
87.5°	47.1	52.3	54.9	57.5	60.2	62.8	65.4	68.0	70.6	73.2	75.8
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5735.6	5722.5	5714.7	5693.8	5688.5	5654.5	5659.8	5654.5	5654.5	5662.4	5688.5
5°	5981.5	5918.7	5903.0	5858.5	5821.9	5759.2	5719.9	5699.0	5667.6	5654.5	5672.8
7.5°	6148.9	6101.8	6062.5	6023.3	5971.0	5897.8	5842.9	5780.1	5727.8	5678.1	5665.0
10°	6120.1	6172.4	6172.4	6148.9	6099.2	6025.9	5960.5	5882.1	5790.5	5712.1	5665.0
12.5°	5876.9	5968.4	6041.6	6096.5	6146.2	6096.5	6031.2	5968.4	5866.4	5751.3	5665.0
15°	5610.1	5704.2	5795.8	5910.9	6031.2	6080.9	6078.2	6005.0	5913.5	5793.2	5672.8
17.5°	5421.8	5487.2	5536.8	5662.4	5808.9	5937.0	6023.3	6028.5	5939.6	5832.4	5675.5
20°	5280.5	5327.6	5369.5	5440.1	5568.2	5725.2	5884.7	5973.6	5957.9	5840.2	5683.3
22.5°	5152.4	5186.4	5220.4	5272.7	5374.7	5476.7	5662.4	5845.5	5923.9	5827.2	5675.5
25°	5024.2	5060.8	5087.0	5123.6	5204.7	5288.4	5419.2	5646.7	5821.9	5816.7	5659.8
27.5°	4872.5	4922.2	4953.6	5003.3	5058.2	5121.0	5209.9	5424.4	5675.5	5764.4	5617.9
30°	4689.5	4762.7	4809.8	4864.7	4911.8	4966.7	5037.3	5168.1	5479.3	5662.4	5573.5
32.5°	4425.3	4556.1	4660.7	4713.0	4765.3	4812.4	4875.1	4985.0	5238.7	5523.8	5523.8
35°	4237.0	4297.1	4391.3	4543.0	4608.4	4655.4	4713.0	4799.3	4961.5	5359.0	5442.7
37.5°	4090.5	4114.1	4161.1	4310.2	4433.1	4509.0	4566.5	4621.4	4781.0	5134.1	5338.1
40°	3980.7	3972.8	3967.6	4038.2	4213.4	4333.8	4399.1	4454.1	4577.0	4864.7	5199.5
42.5°	3852.5	3844.7	3818.5	3836.8	3923.1	4124.5	4223.9	4284.1	4386.1	4582.2	5047.8
45°	3719.1	3706.1	3695.6	3677.3	3708.7	3821.1	4025.1	4114.1	4171.6	4346.8	4856.8
47.5°	3583.1	3564.8	3551.7	3536.0	3517.7	3570.0	3763.6	3923.1	4022.5	4132.4	4626.7
50°	3389.6	3413.1	3397.4	3379.1	3363.4	3353.0	3434.0	3695.6	3818.5	3907.4	4346.8
52.5°	1598.0	3107.1	3237.9	3219.6	3198.7	3180.4	3198.7	3397.4	3619.7	3690.4	4009.4
55°	910.2	1383.6	2879.6	3044.4	3026.0	2999.9	2984.2	3052.2	3384.4	3478.5	3700.8
57.5°	876.2	878.8	1271.1	2743.6	2845.6	2822.0	2803.7	2819.4	3101.9	3261.4	3431.4
60°	847.4	847.4	847.4	1213.6	2623.3	2631.1	2607.6	2581.4	2704.3	3018.2	3159.4
62.5°	784.6	800.3	808.2	808.2	1197.9	2429.7	2406.2	2398.3	2403.6	2725.3	2887.4
65°	703.5	740.2	755.9	766.3	766.3	1258.0	2199.6	2186.5	2168.2	2291.1	2612.8
67.5°	614.6	651.2	685.2	706.2	708.8	732.3	1312.9	1969.4	1943.3	1945.9	2319.9
70°	523.1	554.5	591.1	622.5	651.2	664.3	685.2	1634.6	1720.9	1684.3	1987.7
72.5°	452.5	465.5	491.7	523.1	557.1	588.5	606.8	651.2	1493.4	1454.2	1511.7
75°	376.6	387.1	405.4	426.3	452.5	489.1	520.5	551.9	792.5	1218.8	1210.9
77.5°	292.9	311.2	332.2	345.2	358.3	384.5	426.3	457.7	489.1	823.9	970.3
80°	224.9	238.0	248.5	261.5	277.2	295.5	311.2	347.9	384.5	413.2	742.8
82.5°	167.4	175.2	183.1	188.3	193.5	204.0	232.8	245.8	269.4	295.5	350.5
85°	117.7	122.9	128.2	130.8	133.4	136.0	146.5	149.1	172.6	177.8	211.8
87.5°	75.8	78.5	83.7	86.3	86.3	88.9	91.5	91.5	91.5	86.3	104.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	5706.8	5706.8
2.5°	5709.5	5751.3
5°	5701.6	5756.5
7.5°	5680.7	5733.0
10°	5649.3	5712.1
12.5°	5615.3	5675.5
15°	5586.5	5631.0
17.5°	5555.2	5581.3
20°	5513.3	5534.2
22.5°	5471.5	5461.0
25°	5424.4	5400.8
27.5°	5364.2	5319.8
30°	5309.3	5230.8
32.5°	5257.0	5128.8
35°	5186.4	5024.2
37.5°	5113.1	4917.0
40°	5026.8	4794.1
42.5°	4935.3	4671.1
45°	4820.2	4553.4
47.5°	4718.2	4412.2
50°	4577.0	4260.5
52.5°	4404.4	4119.3
55°	4200.4	3946.7
57.5°	3980.7	3766.2
60°	3745.3	3559.6
62.5°	3460.2	3345.1
65°	3125.4	3099.3
67.5°	2688.7	2827.3
70°	2204.8	2516.0
72.5°	1843.9	2186.5
75°	1511.7	1817.7
77.5°	1197.9	1425.4
80°	748.0	1043.6
82.5°	502.2	685.2
85°	303.4	326.9
87.5°	117.7	120.3
90°	0.0	0.0

(END OF REPORT)