

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-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-LD5-136SL-RW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

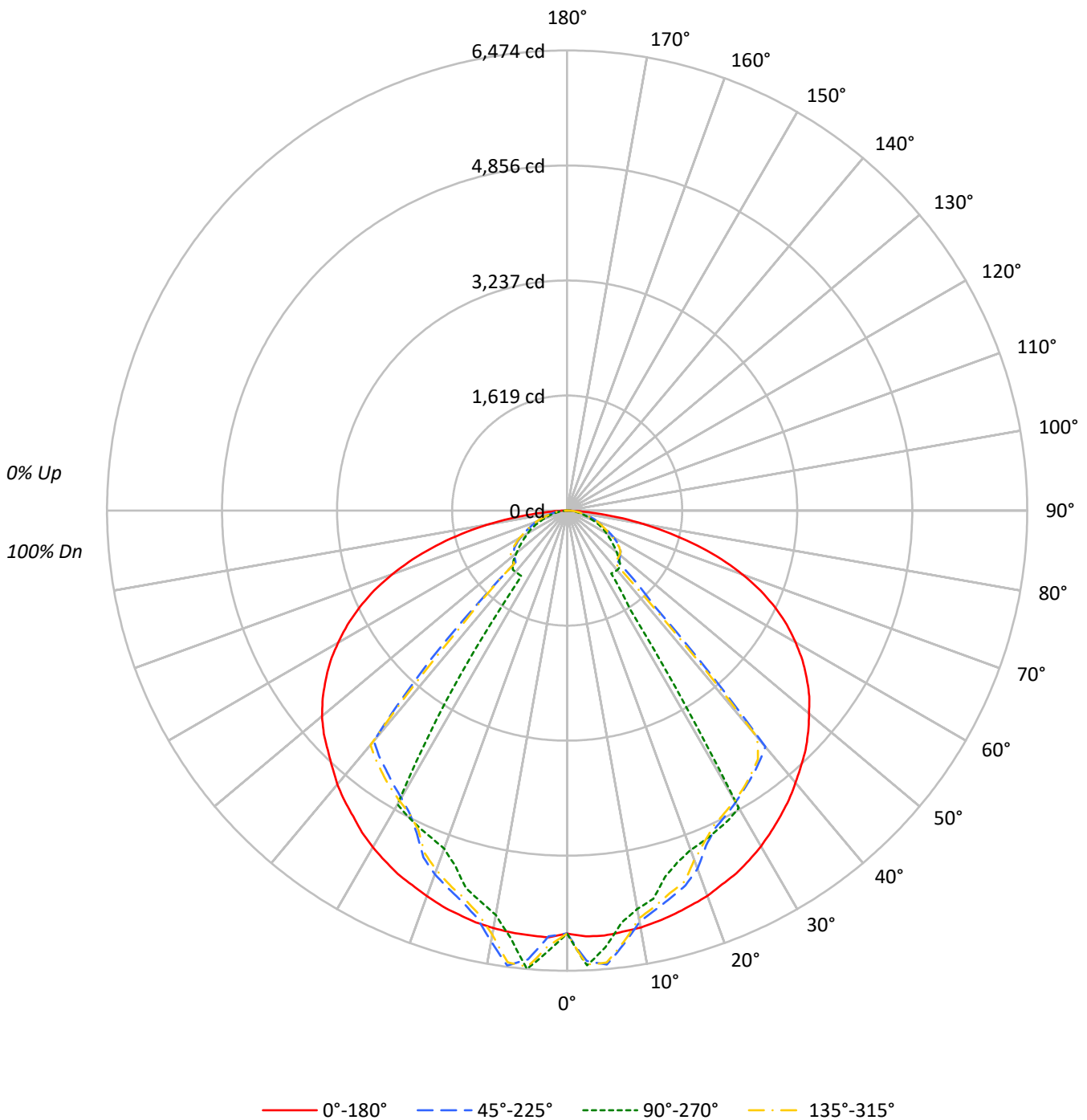
Lumens per Lamp: N/A
Luminaire Lumens: 11915.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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#
CATALOG NUMBER: 8SNLED-LD5-136SL-RW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24041	24041	24041	24041
5°	24310	24222	24299	25422
10°	24367	21900	24401	22236
15°	24456	20262	24513	20905
20°	24670	19218	24670	19146
25°	24923	18851	24959	18675
30°	25218	18518	25281	18298
35°	25559	4218	25612	4399
40°	26023	4386	26179	4528
45°	26711	4362	26803	4520
50°	27412	3943	27782	4050
55°	28354	3501	28580	3551
60°	29201	3112	29265	3151
65°	29892	2716	29817	2672
70°	29715	2188	29622	2109
75°	27956	1685	28157	1613
80°	23255	1197	24189	1095
85°	13409	717	14157	549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.4	4.9
10°-20°	1609.6	13.5
20°-30°	2384.1	20.0
30°-40°	2402.2	20.2
40°-50°	1876.5	15.7
50°-60°	1449.5	12.2
60°-70°	973.2	8.2
70°-80°	496.4	4.2
80°-90°	138.1	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°	4579.1	38.4
0°-40°	6981.4	58.6
0°-60°	10307.3	86.5
0°-90°	11915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11915.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5950	5950	5950	5950	5950	
5°	6002	6168	5999	6474	6002	571
15°	5871	5331	5885	5500	5871	1661
25°	5631	4968	5639	4922	5631	2598
35°	5238	1080	5249	1126	5238	3283
45°	4748	1050	4764	1088	4748	3661
55°	4115	764	4148	774	4115	3675
65°	3231	513	3223	504	3231	3178
75°	1895	259	1909	248	1895	1982
85°	341	82	360	63	341	469
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	5996.4	6018.2	6034.6	6045.5	6050.9	6050.9	6053.7	6056.4	6091.8	6108.2	6119.1
5°	6001.9	6023.7	6056.4	6100.0	6138.2	6170.9	6198.2	6236.4	6274.5	6315.4	6329.1
7.5°	5977.3	6004.6	6070.0	6149.1	6222.7	6274.5	6310.0	6334.5	6353.6	6356.3	6370.0
10°	5955.5	6004.6	6094.6	6198.2	6290.9	6353.6	6353.6	6340.0	6359.1	6285.5	6211.8
12.5°	5917.3	5971.9	6094.6	6230.9	6318.2	6342.7	6331.8	6277.3	6165.5	6075.5	6034.6
15°	5871.0	5944.6	6097.3	6250.0	6323.6	6331.8	6228.2	6089.1	6004.6	5950.0	5881.9
17.5°	5819.2	5917.3	6100.0	6252.7	6280.0	6241.8	6045.5	5958.2	5871.0	5742.8	5650.1
20°	5770.1	5865.5	6078.2	6214.6	6230.9	6059.1	5906.4	5813.7	5666.4	5554.6	5513.7
22.5°	5693.7	5805.5	6059.1	6162.7	6100.0	5901.0	5753.7	5606.5	5472.8	5440.1	5391.0
25°	5631.0	5748.3	6015.5	6100.0	5933.7	5756.4	5584.6	5412.8	5350.1	5303.8	5260.1
27.5°	5546.5	5691.0	5958.2	5985.5	5756.4	5601.0	5350.1	5273.8	5216.5	5164.7	5145.6
30°	5453.8	5631.0	5879.1	5827.3	5609.2	5380.1	5194.7	5123.8	5082.9	5028.4	5006.5
32.5°	5347.4	5541.0	5791.9	5644.6	5451.0	5164.7	5044.7	4990.2	4935.6	4894.7	4758.4
35°	5238.3	5461.9	5688.3	5470.1	5260.1	5001.1	4894.7	4845.7	4793.8	4643.9	4502.1
37.5°	5126.5	5374.7	5562.8	5282.0	5006.5	4832.0	4742.0	4687.5	4570.2	4379.4	4308.5
40°	4998.4	5268.3	5401.9	5088.4	4785.7	4660.2	4575.7	4521.2	4256.7	4172.1	4150.3
42.5°	4870.2	5164.7	5205.6	4900.2	4603.0	4477.5	4406.6	4226.7	4046.7	4003.1	4011.2
45°	4747.5	5052.9	4990.2	4633.0	4412.1	4308.5	4188.5	3940.3	3844.9	3866.7	3872.2
47.5°	4600.2	4919.3	4763.9	4365.7	4215.8	4112.1	3844.9	3694.9	3681.3	3711.3	3727.6
50°	4442.1	4769.3	4523.9	4123.0	4003.1	3880.3	3577.7	3501.3	3517.7	3547.7	3566.8
52.5°	4294.8	4600.2	4275.7	3896.7	3793.1	3512.2	3307.7	3321.3	3348.6	3384.1	3395.0
55°	4114.9	4395.7	4011.2	3667.6	3569.5	3201.4	3108.6	3141.4	3168.6	3198.6	3220.4
57.5°	3926.7	4161.2	3697.6	3411.3	3253.2	2925.9	2934.1	2955.9	2975.0	3010.5	1243.5
60°	3711.3	3894.0	3354.1	3174.1	2860.5	2707.8	2716.0	2754.1	2773.2	1548.9	856.2
62.5°	3487.7	3583.1	3043.2	2904.1	2500.5	2489.6	2527.8	2544.2	1731.6	818.1	801.7
65°	3231.3	3212.3	2737.8	2516.9	2255.1	2266.0	2306.9	2225.1	766.3	766.3	760.8
67.5°	2947.8	2833.2	2440.6	2083.3	2017.9	2042.4	2086.1	728.1	709.0	714.4	695.4
70°	2623.3	2462.4	2132.4	1764.3	1786.1	1810.6	703.5	659.9	651.7	638.1	599.9
72.5°	2279.7	2058.8	1745.2	1532.5	1546.1	970.8	616.3	594.5	567.2	539.9	499.0
75°	1895.2	1608.9	1281.6	1281.6	1300.7	553.6	537.2	501.7	471.7	436.3	411.8
77.5°	1486.1	1238.0	995.3	1033.5	504.5	463.6	433.6	395.4	370.9	349.0	335.4
80°	1088.0	864.4	749.9	670.8	392.7	351.8	321.8	300.0	289.0	275.4	259.1
82.5°	714.4	520.8	520.8	316.3	275.4	242.7	234.5	218.2	207.2	199.1	190.9
85°	340.9	302.7	229.1	193.6	171.8	155.4	150.0	141.8	141.8	139.1	136.3
87.5°	125.4	136.3	100.9	98.2	92.7	90.0	92.7	92.7	95.4	92.7	90.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6146.4	6168.2	6184.6	6211.8	6247.3	6277.3	6304.5	6342.7	6402.7	6419.1	6432.7
5°	6329.1	6337.3	6356.3	6378.2	6383.6	6397.3	6394.5	6410.9	6419.1	6438.2	6397.3
7.5°	6340.0	6296.4	6244.5	6198.2	6165.5	6135.5	6116.4	6146.4	6162.7	6176.4	6135.5
10°	6110.9	6059.1	6029.1	6001.9	5969.1	5922.8	5860.1	5873.7	5868.2	5868.2	5854.6
12.5°	5966.4	5892.8	5816.4	5748.3	5718.3	5715.5	5718.3	5748.3	5748.3	5745.5	5729.2
15°	5740.1	5669.2	5631.0	5614.6	5614.6	5606.5	5606.5	5639.2	5631.0	5631.0	5622.8
17.5°	5590.1	5541.0	5513.7	5494.7	5486.5	5500.1	5516.5	5530.1	5532.8	5521.9	5478.3
20°	5467.4	5421.0	5388.3	5393.8	5391.0	5399.2	5407.4	5361.0	5303.8	5227.4	5192.0
22.5°	5339.2	5303.8	5279.2	5279.2	5246.5	5194.7	5118.3	5102.0	5093.8	5058.4	5028.4
25°	5216.5	5175.6	5140.2	5031.1	4962.9	4971.1	4957.5	4930.2	4927.5	4924.7	4935.6
27.5°	5093.8	4987.5	4851.1	4834.8	4807.5	4804.8	4821.1	4834.8	4834.8	4845.7	4859.3
30°	4840.2	4717.5	4693.0	4663.0	4673.9	4712.0	4720.2	4739.3	4744.8	4763.9	4774.8
32.5°	4608.4	4553.9	4532.1	4545.7	4581.2	4613.9	4633.0	4641.1	4654.8	4671.1	4684.8
35°	4420.3	4403.9	4423.0	4453.0	4488.4	4515.7	4532.1	4548.4	4562.1	4575.7	4586.6
37.5°	4281.2	4292.1	4319.4	4357.5	4393.0	4414.8	4428.4	4447.5	4466.6	4483.0	4417.5
40°	4150.3	4177.6	4207.6	4248.5	4278.5	4300.3	4313.9	4338.5	4174.8	1889.7	1036.2
42.5°	4035.8	4065.8	4087.6	4120.3	4153.0	4169.4	4049.4	1807.9	1022.6	1017.1	1030.8
45°	3896.7	3921.2	3956.7	3981.2	4011.2	2634.2	1006.2	1017.1	1000.8	1011.7	1017.1
47.5°	3754.9	3793.1	3812.2	3637.7	1082.6	1000.8	989.9	1000.8	989.9	1003.5	995.3
50°	3594.0	3640.4	2590.5	978.9	970.8	965.3	976.2	970.8	978.9	989.9	968.0
52.5°	3430.4	2124.2	949.0	943.5	949.0	943.5	962.6	949.0	951.7	940.8	913.5
55°	1161.6	919.0	910.8	908.0	924.4	924.4	924.4	902.6	889.0	861.7	842.6
57.5°	889.0	889.0	886.2	889.0	883.5	878.1	853.5	834.4	815.3	777.2	766.3
60°	842.6	842.6	842.6	842.6	818.1	807.2	769.0	752.6	719.9	700.8	689.9
62.5°	804.4	799.0	774.4	766.3	739.0	709.0	687.2	670.8	638.1	627.2	619.0
65°	749.9	730.8	700.8	668.1	654.5	621.7	610.8	586.3	569.9	561.7	556.3
67.5°	659.9	632.6	608.1	586.3	561.7	550.8	537.2	518.1	507.2	501.7	496.3
70°	564.5	545.4	520.8	507.2	490.8	482.7	463.6	458.1	449.9	441.8	433.6
72.5°	471.7	460.8	449.9	430.8	425.4	419.9	400.9	389.9	379.0	368.1	362.7
75°	395.4	387.2	381.8	365.4	357.2	340.9	327.2	319.0	310.9	302.7	297.2
77.5°	324.5	319.0	302.7	291.8	286.3	272.7	267.2	270.0	264.5	253.6	248.1
80°	253.6	248.1	234.5	234.5	229.1	223.6	218.2	212.7	207.2	199.1	193.6
82.5°	193.6	188.2	182.7	177.2	171.8	169.1	166.3	160.9	155.4	150.0	147.3
85°	136.3	133.6	130.9	128.2	125.4	122.7	120.0	114.5	109.1	106.3	103.6
87.5°	92.7	90.0	87.3	84.5	81.8	79.1	76.4	73.6	68.2	65.4	62.7
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6432.7	6446.3	6432.7	6402.7	6383.6	6375.4	6391.8	6391.8	6402.7	6416.3	6419.1
5°	6331.8	6299.1	6260.9	6222.7	6203.6	6192.7	6162.7	6168.2	6176.4	6181.8	6187.3
7.5°	6080.9	6037.3	5985.5	5936.4	5917.3	5901.0	5865.5	5865.5	5865.5	5868.2	5884.6
10°	5824.6	5805.5	5783.7	5751.0	5726.4	5718.3	5688.3	5696.4	5691.0	5699.2	5718.3
12.5°	5704.6	5682.8	5663.7	5631.0	5603.7	5592.8	5579.2	5587.4	5584.6	5598.3	5614.6
15°	5595.6	5584.6	5562.8	5538.3	5513.7	5491.9	5442.8	5426.5	5415.6	5401.9	5421.0
17.5°	5415.6	5339.2	5287.4	5249.2	5222.0	5202.9	5189.2	5189.2	5197.4	5205.6	5222.0
20°	5170.2	5148.3	5123.8	5082.9	5055.6	5044.7	5036.5	5036.5	5050.2	5061.1	5091.1
22.5°	5001.1	4998.4	4990.2	4971.1	4957.5	4957.5	4960.2	4965.6	4984.7	5001.1	5031.1
25°	4922.0	4932.9	4927.5	4916.6	4908.4	4911.1	4905.7	4911.1	4930.2	4946.6	4971.1
27.5°	4859.3	4875.7	4870.2	4853.8	4840.2	4845.7	4853.8	4848.4	4864.7	4883.8	4902.9
30°	4774.8	4777.5	4788.4	4769.3	4763.9	4772.0	4774.8	4780.2	4796.6	4810.2	4826.6
32.5°	4679.3	4701.1	4698.4	4679.3	4679.3	4687.5	4690.2	4507.5	4166.7	3588.6	3430.4
35°	4586.6	4611.1	4570.2	3853.1	2666.9	1423.4	1098.9	1060.8	1068.9	1074.4	1079.8
37.5°	3392.2	1608.9	1025.3	1033.5	1041.7	1049.8	1058.0	1066.2	1074.4	1082.6	1085.3
40°	1019.9	1017.1	1025.3	1036.2	1044.4	1049.8	1060.8	1068.9	1077.1	1085.3	1088.0
42.5°	1008.9	1014.4	1022.6	1033.5	1044.4	1055.3	1063.5	1074.4	1079.8	1085.3	1088.0
45°	1003.5	1014.4	1025.3	1033.5	1041.7	1047.1	1052.6	1055.3	1052.6	1052.6	1058.0
47.5°	995.3	1006.2	1008.9	1006.2	1008.9	1006.2	1006.2	1006.2	998.0	995.3	995.3
50°	965.3	965.3	959.9	949.0	946.2	943.5	938.0	935.3	924.4	921.7	921.7
52.5°	902.6	899.9	891.7	878.1	872.6	867.1	864.4	861.7	850.8	845.3	848.1
55°	829.0	823.5	815.3	799.0	796.2	790.8	788.1	785.3	774.4	779.9	771.7
57.5°	760.8	749.9	739.0	736.3	725.3	722.6	719.9	717.2	709.0	711.7	706.3
60°	679.0	676.3	670.8	659.9	659.9	657.2	657.2	651.7	646.3	643.5	643.5
62.5°	619.0	610.8	605.4	605.4	597.2	597.2	597.2	591.7	586.3	589.0	586.3
65°	553.6	550.8	548.1	542.6	542.6	539.9	539.9	534.5	526.3	529.0	523.6
67.5°	499.0	493.6	488.1	485.4	474.5	469.0	466.3	463.6	452.7	455.4	449.9
70°	430.8	422.7	417.2	411.8	403.6	398.1	398.1	392.7	384.5	387.2	381.8
72.5°	359.9	354.5	349.0	346.3	338.1	335.4	332.7	330.0	321.8	324.5	321.8
75°	300.0	300.0	297.2	294.5	286.3	278.1	272.7	270.0	264.5	267.2	261.8
77.5°	248.1	242.7	237.2	237.2	229.1	223.6	218.2	218.2	218.2	215.4	212.7
80°	193.6	188.2	188.2	185.4	180.0	174.5	171.8	171.8	169.1	169.1	166.3
82.5°	147.3	141.8	139.1	139.1	133.6	130.9	128.2	125.4	125.4	125.4	122.7
85°	103.6	98.2	95.4	95.4	90.0	87.3	87.3	84.5	84.5	81.8	81.8
87.5°	62.7	60.0	57.3	57.3	51.8	49.1	49.1	49.1	46.4	46.4	43.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6419.1	6419.1	6400.0	6405.4	6397.3	6408.2	6394.5	6394.5	6410.9	6410.9	6421.8
5°	6190.0	6176.4	6173.6	6168.2	6140.9	6151.8	6138.2	6124.6	6143.7	6143.7	6168.2
7.5°	5876.4	5851.9	5862.8	5846.4	5830.1	5805.5	5813.7	5802.8	5816.4	5835.5	5860.1
10°	5715.5	5693.7	5707.4	5691.0	5699.2	5663.7	5666.4	5669.2	5682.8	5688.3	5710.1
12.5°	5611.9	5606.5	5601.0	5595.6	5601.0	5581.9	5571.0	5573.7	5579.2	5581.9	5598.3
15°	5393.8	5358.3	5369.2	5331.0	5333.8	5336.5	5314.7	5336.5	5333.8	5369.2	5401.9
17.5°	5216.5	5216.5	5197.4	5181.1	5170.2	5167.4	5151.1	5162.0	5151.1	5172.9	5181.1
20°	5093.8	5091.1	5088.4	5080.2	5052.9	5055.6	5063.8	5039.3	5036.5	5033.8	5050.2
22.5°	5036.5	5039.3	5028.4	5028.4	5003.8	5009.3	5012.0	4984.7	4987.5	4979.3	4987.5
25°	4976.5	4982.0	4968.4	4968.4	4962.9	4960.2	4946.6	4952.0	4935.6	4922.0	4935.6
27.5°	4905.7	4916.6	4905.7	4911.1	4900.2	4894.7	4886.6	4881.1	4864.7	4862.0	4870.2
30°	4840.2	4845.7	4842.9	4829.3	4826.6	4810.2	4818.4	4802.0	4785.7	4788.4	4793.8
32.5°	2481.5	2369.7	1827.0	1649.8	1633.4	1693.4	2007.0	2443.3	3165.9	3866.7	4371.2
35°	1082.6	1082.6	1082.6	1079.8	1079.8	1077.1	1074.4	1071.7	1068.9	1066.2	1063.5
37.5°	1088.0	1088.0	1088.0	1088.0	1085.3	1082.6	1082.6	1077.1	1074.4	1071.7	1068.9
40°	1090.8	1093.5	1093.5	1093.5	1090.8	1090.8	1088.0	1082.6	1079.8	1074.4	1068.9
42.5°	1088.0	1090.8	1090.8	1088.0	1088.0	1085.3	1085.3	1082.6	1079.8	1077.1	1074.4
45°	1052.6	1055.3	1049.8	1049.8	1047.1	1047.1	1047.1	1047.1	1047.1	1049.8	1049.8
47.5°	989.9	989.9	987.1	984.4	984.4	981.7	984.4	981.7	987.1	989.9	995.3
50°	916.2	916.2	910.8	908.0	908.0	908.0	908.0	910.8	913.5	919.0	924.4
52.5°	839.9	839.9	837.2	834.4	831.7	831.7	839.9	837.2	839.9	842.6	850.8
55°	766.3	769.0	763.5	763.5	760.8	760.8	760.8	763.5	766.3	769.0	777.2
57.5°	703.5	703.5	698.1	698.1	698.1	695.4	703.5	698.1	700.8	703.5	709.0
60°	640.8	638.1	638.1	635.4	635.4	635.4	640.8	638.1	638.1	640.8	646.3
62.5°	583.6	583.6	580.8	580.8	578.1	578.1	583.6	580.8	580.8	583.6	586.3
65°	518.1	518.1	515.4	512.7	520.8	512.7	520.8	515.4	520.8	523.6	529.0
67.5°	444.5	444.5	444.5	441.8	441.8	447.2	449.9	444.5	447.2	452.7	455.4
70°	379.0	379.0	376.3	376.3	376.3	381.8	384.5	379.0	381.8	384.5	389.9
72.5°	321.8	316.3	316.3	313.6	319.0	319.0	321.8	319.0	321.8	321.8	327.2
75°	264.5	259.1	259.1	259.1	264.5	261.8	264.5	261.8	264.5	264.5	267.2
77.5°	212.7	210.0	207.2	207.2	212.7	212.7	212.7	210.0	212.7	215.4	218.2
80°	166.3	163.6	160.9	160.9	166.3	166.3	166.3	169.1	166.3	169.1	171.8
82.5°	122.7	120.0	117.3	122.7	122.7	122.7	122.7	125.4	122.7	125.4	128.2
85°	81.8	79.1	76.4	81.8	81.8	81.8	81.8	84.5	81.8	84.5	87.3
87.5°	43.6	40.9	40.9	43.6	43.6	43.6	46.4	46.4	46.4	49.1	49.1
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-LD5-136SL-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°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6438.2	6446.3	6443.6	6427.2	6410.9	6391.8	6378.2	6380.9	6408.2	6416.3	6391.8
5°	6168.2	6220.0	6220.0	6255.5	6236.4	6220.0	6230.9	6290.9	6320.9	6367.3	6383.6
7.5°	5890.1	5914.6	5911.9	5947.3	5941.9	5941.9	5950.0	6029.1	6067.3	6105.5	6116.4
10°	5734.6	5759.2	5756.4	5759.2	5751.0	5731.9	5731.9	5767.3	5800.1	5819.2	5824.6
12.5°	5622.8	5636.5	5633.7	5633.7	5628.3	5611.9	5609.2	5639.2	5674.6	5699.2	5701.9
15°	5456.5	5494.7	5502.8	5538.3	5530.1	5508.3	5513.7	5538.3	5560.1	5581.9	5573.7
17.5°	5208.3	5227.4	5230.1	5243.8	5238.3	5238.3	5271.1	5361.0	5421.0	5472.8	5478.3
20°	5066.5	5080.2	5074.7	5104.7	5091.1	5088.4	5096.5	5134.7	5162.0	5186.5	5230.1
22.5°	4998.4	5009.3	5001.1	5003.8	4979.3	4957.5	4952.0	4982.0	5012.0	5044.7	5044.7
25°	4941.1	4949.3	4946.6	4941.1	4922.0	4892.0	4886.6	4892.0	4902.9	4905.7	4886.6
27.5°	4872.9	4878.4	4878.4	4881.1	4856.6	4829.3	4823.8	4818.4	4829.3	4826.6	4796.6
30°	4802.0	4793.8	4796.6	4799.3	4777.5	4752.9	4742.0	4739.3	4750.2	4747.5	4717.5
32.5°	4633.0	4695.7	4701.1	4706.6	4687.5	4665.7	4654.8	4646.6	4652.1	4649.3	4622.1
35°	1060.8	1079.8	1322.5	2994.1	4065.8	4502.1	4548.4	4537.5	4540.2	4540.2	4518.4
37.5°	1063.5	1060.8	1058.0	1049.8	1041.7	1036.2	1791.6	3820.4	4425.7	4428.4	4409.4
40°	1063.5	1060.8	1058.0	1052.6	1041.7	1033.5	1019.9	1008.9	1033.5	2274.2	4161.2
42.5°	1068.9	1063.5	1058.0	1052.6	1041.7	1030.8	1019.9	1006.2	1014.4	1008.9	995.3
45°	1052.6	1049.8	1049.8	1047.1	1041.7	1030.8	1017.1	1000.8	992.6	1000.8	987.1
47.5°	1000.8	1003.5	1011.7	1014.4	1014.4	1017.1	1008.9	998.0	984.4	992.6	976.2
50°	929.9	935.3	938.0	951.7	957.1	968.0	970.8	970.8	968.0	978.9	968.0
52.5°	853.5	859.0	872.6	878.1	883.5	899.9	905.3	913.5	919.0	935.3	946.2
55°	779.9	782.6	788.1	799.0	807.2	820.8	829.0	837.2	850.8	859.0	891.7
57.5°	711.7	714.4	725.3	728.1	733.5	744.4	752.6	763.5	774.4	779.9	818.1
60°	646.3	649.0	657.2	659.9	662.6	673.5	681.7	689.9	698.1	703.5	730.8
62.5°	589.0	589.0	597.2	597.2	599.9	608.1	613.5	619.0	627.2	629.9	643.5
65°	531.7	534.5	539.9	539.9	542.6	548.1	550.8	553.6	561.7	561.7	572.6
67.5°	460.8	463.6	471.7	477.2	479.9	490.8	493.6	496.3	501.7	504.5	509.9
70°	392.7	395.4	403.6	406.3	409.0	417.2	422.7	430.8	439.0	447.2	452.7
72.5°	330.0	332.7	340.9	340.9	349.0	351.8	357.2	359.9	368.1	373.6	381.8
75°	270.0	272.7	280.9	280.9	289.0	291.8	294.5	297.2	302.7	308.1	313.6
77.5°	220.9	220.9	231.8	237.2	242.7	242.7	245.4	245.4	245.4	248.1	253.6
80°	174.5	174.5	182.7	188.2	193.6	193.6	196.3	199.1	201.8	201.8	204.5
82.5°	130.9	130.9	139.1	141.8	147.3	147.3	147.3	150.0	152.7	150.0	155.4
85°	90.0	90.0	95.4	98.2	103.6	103.6	103.6	106.3	109.1	106.3	109.1
87.5°	51.8	54.5	57.3	60.0	62.7	65.4	65.4	65.4	68.2	68.2	70.9
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6364.5	6331.8	6329.1	6290.9	6280.0	6282.7	6252.7	6241.8	6192.7	6181.8	6130.0
5°	6389.1	6405.4	6397.3	6394.5	6402.7	6397.3	6375.4	6364.5	6356.3	6334.5	6290.9
7.5°	6119.1	6130.0	6138.2	6173.6	6203.6	6255.5	6310.0	6345.4	6372.7	6378.2	6342.7
10°	5843.7	5895.5	5931.0	5985.5	6029.1	6059.1	6091.8	6121.8	6200.9	6280.0	6326.4
12.5°	5701.9	5715.5	5712.8	5742.8	5772.8	5851.9	5928.2	5971.9	6031.9	6067.3	6151.8
15°	5581.9	5584.6	5592.8	5614.6	5631.0	5658.3	5693.7	5759.2	5879.1	5933.7	5980.0
17.5°	5472.8	5472.8	5478.3	5497.4	5519.2	5543.7	5565.6	5592.8	5652.8	5742.8	5857.3
20°	5298.3	5374.7	5382.9	5380.1	5391.0	5437.4	5442.8	5491.9	5521.9	5557.4	5669.2
22.5°	5039.3	5085.6	5151.1	5252.0	5290.1	5312.0	5328.3	5350.1	5396.5	5437.4	5483.7
25°	4897.5	4927.5	4946.6	4976.5	5055.6	5183.8	5208.3	5232.9	5262.9	5292.9	5350.1
27.5°	4772.0	4769.3	4782.9	4810.2	4832.0	4900.2	5020.2	5115.6	5121.1	5164.7	5213.8
30°	4682.0	4665.7	4646.6	4641.1	4671.1	4706.6	4742.0	4892.0	4995.6	5017.5	5069.3
32.5°	4597.5	4570.2	4543.0	4521.2	4502.1	4532.1	4553.9	4619.3	4752.9	4878.4	4905.7
35°	4493.9	4466.6	4433.9	4409.4	4379.4	4376.6	4373.9	4436.6	4480.3	4630.2	4761.1
37.5°	4387.5	4357.5	4330.3	4303.0	4273.0	4251.2	4237.6	4253.9	4294.8	4360.3	4578.4
40°	4275.7	4240.3	4213.0	4191.2	4150.3	4133.9	4106.7	4095.8	4098.5	4155.8	4270.3
42.5°	2555.1	4074.0	4087.6	4063.0	4027.6	4005.8	3975.8	3962.2	3934.9	3962.2	4027.6
45°	984.4	995.3	2980.5	3937.6	3894.0	3866.7	3839.4	3825.8	3795.8	3774.0	3834.0
47.5°	965.3	976.2	954.4	1352.5	3716.7	3724.9	3692.2	3678.6	3648.6	3632.2	3615.8
50°	951.7	959.9	943.5	949.0	929.9	3405.9	3542.2	3525.9	3493.1	3474.0	3441.3
52.5°	938.0	938.0	927.1	913.5	908.0	910.8	2865.9	3370.4	3332.2	3313.2	3269.5
55°	894.4	899.9	910.8	889.0	883.5	880.8	872.6	2729.6	3155.0	3133.2	3095.0
57.5°	829.0	839.9	869.9	864.4	864.4	842.6	837.2	837.2	2533.3	2950.5	2912.3
60°	752.6	763.5	796.2	807.2	815.3	809.9	804.4	801.7	790.8	2669.6	2718.7
62.5°	673.5	684.4	695.4	730.8	741.7	755.3	771.7	763.5	752.6	752.6	2514.2
65°	589.0	605.4	610.8	643.5	657.2	681.7	695.4	714.4	709.0	706.3	719.9
67.5°	515.4	534.5	537.2	550.8	575.4	586.3	602.6	638.1	654.5	659.9	665.4
70°	452.7	463.6	471.7	477.2	493.6	496.3	526.3	550.8	575.4	602.6	610.8
72.5°	389.9	398.1	414.5	409.0	414.5	425.4	441.8	458.1	482.7	520.8	545.4
75°	319.0	324.5	335.4	340.9	351.8	359.9	370.9	384.5	406.3	425.4	458.1
77.5°	256.3	259.1	267.2	270.0	280.9	289.0	308.1	316.3	330.0	343.6	362.7
80°	207.2	207.2	210.0	210.0	218.2	226.3	240.0	248.1	264.5	275.4	275.4
82.5°	158.2	158.2	166.3	166.3	171.8	171.8	180.0	180.0	188.2	193.6	199.1
85°	111.8	114.5	120.0	117.3	122.7	120.0	125.4	130.9	133.6	130.9	128.2
87.5°	73.6	73.6	79.1	76.4	79.1	79.1	84.5	84.5	87.3	87.3	84.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6110.9	6070.0	6045.5	6015.5	6007.3	5999.1	6010.0	6010.0	5993.7	5980.0	5955.5
5°	6252.7	6209.1	6162.7	6113.7	6067.3	6018.2	5999.1	5996.4	5966.4	5950.0	5941.9
7.5°	6326.4	6304.5	6252.7	6184.6	6113.7	6026.4	5988.2	5966.4	5936.4	5931.0	5931.0
10°	6334.5	6310.0	6282.7	6233.6	6151.8	6037.3	5963.7	5920.0	5892.8	5911.9	5947.3
12.5°	6255.5	6301.8	6277.3	6244.5	6179.1	6040.0	5933.7	5868.2	5860.1	5909.1	6001.9
15°	6053.7	6190.0	6258.2	6225.5	6173.6	6034.6	5884.6	5808.2	5808.2	5909.1	6029.1
17.5°	5901.0	6007.3	6173.6	6200.9	6140.9	6023.7	5838.2	5748.3	5772.8	5920.0	6048.2
20°	5775.5	5841.0	6001.9	6154.6	6097.3	5999.1	5770.1	5677.4	5726.4	5903.7	6075.5
22.5°	5579.2	5710.1	5808.2	6034.6	6053.7	5952.8	5701.9	5590.1	5688.3	5903.7	6061.8
25°	5388.3	5546.5	5650.1	5871.0	5988.2	5895.5	5639.2	5497.4	5647.4	5895.5	6050.9
27.5°	5254.7	5328.3	5516.5	5674.6	5890.1	5819.2	5554.6	5396.5	5595.6	5851.9	5988.2
30°	5112.9	5162.0	5347.4	5497.4	5759.2	5731.9	5467.4	5284.7	5530.1	5811.0	5824.6
32.5°	4957.5	5012.0	5107.4	5325.6	5576.5	5650.1	5369.2	5172.9	5459.2	5748.3	5633.7
35°	4799.3	4840.2	4916.6	5151.1	5363.8	5527.4	5249.2	5044.7	5410.1	5652.8	5451.0
37.5°	4641.1	4684.8	4750.2	4946.6	5140.2	5412.8	5145.6	4916.6	5320.1	5483.7	5260.1
40°	4491.2	4515.7	4583.9	4706.6	4954.7	5295.6	5028.4	4782.9	5227.4	5268.3	5001.1
42.5°	4215.8	4338.5	4401.2	4499.3	4744.8	5134.7	4892.0	4641.1	5123.8	5052.9	4742.0
45°	3918.5	4185.8	4213.0	4311.2	4559.3	4962.9	4763.9	4502.1	5025.6	4867.5	4496.6
47.5°	3675.8	3869.4	4027.6	4109.4	4338.5	4761.1	4643.9	4384.8	4878.4	4633.0	4256.7
50°	3460.4	3564.0	3850.3	3910.3	4074.0	4518.4	4502.1	4248.5	4673.9	4338.5	4022.1
52.5°	3250.4	3324.1	3583.1	3711.3	3844.9	4256.7	4333.0	4114.9	4450.3	4044.0	3784.9
55°	3067.7	3092.3	3234.1	3504.0	3624.0	3992.1	4147.6	3959.4	4166.7	3763.1	3555.8
57.5°	2879.6	2857.8	2961.4	3307.7	3395.0	3722.2	3951.2	3801.3	3937.6	3476.8	3318.6
60°	2683.2	2653.3	2696.9	2925.9	3152.3	3455.0	3719.5	3626.7	3659.5	3193.2	3054.1
62.5°	2478.7	2448.7	2435.1	2579.6	2915.0	3179.5	3484.9	3433.1	3318.6	2934.1	2726.9
65°	2266.0	2236.0	2214.2	2271.5	2653.3	2822.3	3223.2	3209.5	2945.0	2661.4	2296.0
67.5°	689.9	2034.2	1987.9	1985.2	2236.0	2497.8	2939.6	2917.8	2568.7	2369.7	1977.0
70°	621.7	1649.8	1753.4	1728.8	1837.9	2167.9	2615.1	2598.7	2203.3	1900.6	1747.9
72.5°	569.9	583.6	1548.9	1521.6	1546.1	1843.4	2276.9	2233.3	1867.9	1499.8	1510.7
75°	488.1	512.7	534.5	1284.4	1251.6	1527.1	1908.8	1840.6	1540.7	1238.0	1262.5
77.5°	398.1	428.1	444.5	935.3	1011.7	1088.0	1524.3	1434.3	1060.8	989.9	471.7
80°	297.2	321.8	349.0	373.6	769.0	760.8	1131.7	1041.7	739.0	616.3	368.1
82.5°	218.2	226.3	242.7	270.0	305.4	509.9	728.1	640.8	512.7	280.9	253.6
85°	136.3	147.3	155.4	163.6	185.4	305.4	359.9	286.3	215.4	171.8	160.9
87.5°	87.3	87.3	84.5	87.3	90.0	109.1	122.7	117.3	92.7	87.3	87.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	5928.2	5890.1	5890.1	5879.1	5887.3	5887.3	5884.6	5887.3	5906.4	5917.3	5936.4
5°	5925.5	5914.6	5939.1	5969.1	6004.6	6048.2	6059.1	6097.3	6132.7	6179.1	6228.2
7.5°	5961.0	5999.1	6045.5	6094.6	6165.5	6217.3	6263.6	6310.0	6342.7	6386.3	6413.6
10°	6012.8	6089.1	6168.2	6230.9	6307.3	6350.9	6380.9	6386.3	6340.0	6266.4	6206.4
12.5°	6086.4	6176.4	6250.0	6310.0	6345.4	6329.1	6241.8	6151.8	6100.0	6023.7	5917.3
15°	6149.1	6230.9	6307.3	6282.7	6187.3	6097.3	6029.1	5922.8	5819.2	5748.3	5701.9
17.5°	6176.4	6255.5	6228.2	6100.0	6010.0	5906.4	5767.3	5685.5	5617.4	5562.8	5535.6
20°	6192.7	6179.1	6031.9	5939.1	5764.6	5669.2	5579.2	5502.8	5451.0	5423.8	5418.3
22.5°	6149.1	5982.8	5857.3	5691.0	5562.8	5483.7	5412.8	5350.1	5314.7	5292.9	5279.2
25°	6004.6	5811.0	5625.5	5494.7	5385.6	5317.4	5262.9	5211.1	5167.4	5156.5	5129.3
27.5°	5802.8	5644.6	5399.2	5298.3	5202.9	5170.2	5110.2	5058.4	5020.2	4987.5	4900.2
30°	5636.5	5385.6	5208.3	5115.6	5058.4	5020.2	4952.0	4897.5	4832.0	4712.0	4663.0
32.5°	5431.9	5183.8	5014.7	4962.9	4892.0	4859.3	4782.9	4663.0	4562.1	4513.0	4510.3
35°	5167.4	4962.9	4840.2	4793.8	4736.6	4682.0	4523.9	4414.8	4365.7	4371.2	4412.1
37.5°	4946.6	4763.9	4684.8	4619.3	4553.9	4414.8	4281.2	4229.4	4243.0	4270.3	4289.4
40°	4723.0	4583.9	4493.9	4442.1	4294.8	4158.5	4087.6	4106.7	4131.2	4150.3	4174.8
42.5°	4504.8	4406.6	4316.6	4215.8	4014.0	3940.3	3956.7	3981.2	4003.1	4030.3	4054.9
45°	4297.6	4210.3	4106.7	3877.6	3776.7	3795.8	3820.4	3839.4	3872.2	3891.3	3915.8
47.5°	4101.2	4008.5	3825.8	3624.0	3613.1	3651.3	3673.1	3697.6	3722.2	3673.1	2026.1
50°	3880.3	3784.9	3506.8	3430.4	3455.0	3490.4	3517.7	3542.2	3155.0	1254.4	965.3
52.5°	3662.2	3419.5	3242.3	3264.1	3288.6	3329.5	3348.6	2486.9	989.9	943.5	946.2
55°	3419.5	3108.6	3056.8	3084.1	3105.9	3146.8	2086.1	913.5	908.0	905.3	927.1
57.5°	3037.7	2849.6	2871.4	2898.7	2920.5	2061.5	889.0	883.5	886.2	889.0	891.7
60°	2696.9	2656.0	2680.5	2705.1	1914.3	859.0	842.6	845.3	856.2	848.1	826.2
62.5°	2426.9	2459.6	2484.2	2176.0	815.3	807.2	815.3	807.2	788.1	774.4	747.2
65°	2219.7	2252.4	2271.5	766.3	763.5	774.4	766.3	739.0	709.0	670.8	662.6
67.5°	2001.5	2034.2	728.1	709.0	719.9	706.3	673.5	640.8	619.0	586.3	572.6
70°	1775.2	760.8	659.9	657.2	638.1	616.3	580.8	548.1	520.8	507.2	493.6
72.5°	1281.6	602.6	594.5	572.6	539.9	509.9	479.9	460.8	447.2	439.0	430.8
75°	534.5	523.6	499.0	460.8	428.1	414.5	392.7	379.0	373.6	357.2	351.8
77.5°	447.2	425.4	389.9	362.7	343.6	335.4	319.0	302.7	294.5	291.8	280.9
80°	343.6	313.6	297.2	283.6	278.1	259.1	240.0	231.8	226.3	223.6	215.4
82.5°	234.5	223.6	212.7	193.6	193.6	185.4	177.2	171.8	166.3	166.3	160.9
85°	152.7	144.5	141.8	133.6	133.6	128.2	125.4	122.7	120.0	117.3	114.5
87.5°	87.3	87.3	90.0	87.3	87.3	84.5	81.8	79.1	76.4	76.4	70.9
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	5961.0	5988.2	5993.7	6086.4	6138.2	6135.5	6119.1	6168.2	6138.2	6121.8	6138.2
5°	6277.3	6310.0	6337.3	6438.2	6473.6	6490.0	6487.2	6514.5	6492.7	6473.6	6473.6
7.5°	6432.7	6443.6	6454.5	6430.0	6413.6	6386.3	6345.4	6285.5	6255.5	6222.7	6181.8
10°	6176.4	6140.9	6154.6	6105.5	6064.6	6034.6	5996.4	5947.3	5906.4	5876.4	5830.1
12.5°	5862.8	5860.1	5865.5	5873.7	5832.8	5808.2	5778.3	5742.8	5712.8	5680.1	5641.9
15°	5671.9	5674.6	5696.4	5688.3	5674.6	5661.0	5628.3	5617.4	5590.1	5554.6	5532.8
17.5°	5535.6	5549.2	5571.0	5560.1	5538.3	5524.7	5500.1	5475.6	5451.0	5423.8	5391.0
20°	5415.6	5429.2	5442.8	5429.2	5388.3	5369.2	5336.5	5260.1	5205.6	5151.1	5102.0
22.5°	5284.7	5292.9	5282.0	5238.3	5134.7	5085.6	5047.4	5025.6	4979.3	4949.3	4919.3
25°	5121.1	5074.7	5003.8	4954.7	4913.8	4892.0	4875.7	4872.9	4867.5	4862.0	4848.4
27.5°	4853.8	4837.5	4799.3	4780.2	4782.9	4791.1	4793.8	4802.0	4793.8	4782.9	4772.0
30°	4654.8	4663.0	4665.7	4671.1	4684.8	4693.0	4695.7	4706.6	4701.1	4693.0	4687.5
32.5°	4529.3	4548.4	4559.3	4575.7	4583.9	4597.5	4597.5	4613.9	4597.5	4594.8	4589.3
35°	4425.7	4442.1	4447.5	4472.1	4480.3	4493.9	4493.9	4507.5	4493.9	4354.8	3438.6
37.5°	4322.1	4338.5	4349.4	4371.2	4373.9	4382.1	4044.0	2958.7	1908.8	1478.0	1128.9
40°	4199.4	4218.5	4229.4	4237.6	2977.7	1889.7	1300.7	1058.0	1058.0	1066.2	1074.4
42.5°	4068.5	4082.1	2844.1	1655.2	1030.8	1028.0	1036.2	1044.4	1052.6	1063.5	1074.4
45°	3198.6	1614.3	1025.3	1000.8	1008.9	1019.9	1030.8	1041.7	1055.3	1066.2	1071.7
47.5°	1049.8	984.4	998.0	987.1	1000.8	1014.4	1025.3	1036.2	1038.9	1041.7	1038.9
50°	970.8	970.8	978.9	978.9	989.9	995.3	995.3	995.3	984.4	981.7	973.5
52.5°	938.0	959.9	949.0	954.4	949.0	940.8	932.6	924.4	908.0	902.6	891.7
55°	921.7	929.9	902.6	894.4	883.5	861.7	850.8	839.9	826.2	820.8	807.2
57.5°	883.5	864.4	834.4	820.8	801.7	779.9	769.0	760.8	747.2	741.7	733.5
60°	812.6	774.4	755.3	739.0	717.2	698.1	689.9	684.4	673.5	670.8	662.6
62.5°	725.3	692.6	676.3	654.5	638.1	627.2	619.0	616.3	605.4	605.4	599.9
65°	629.9	613.5	599.9	578.1	569.9	559.0	556.3	553.6	548.1	545.4	539.9
67.5°	553.6	542.6	523.6	512.7	507.2	499.0	493.6	488.1	477.2	471.7	463.6
70°	485.4	477.2	458.1	449.9	439.0	425.4	417.2	411.8	403.6	398.1	389.9
72.5°	419.9	395.4	381.8	373.6	365.4	351.8	349.0	343.6	335.4	332.7	324.5
75°	338.1	319.0	310.9	305.4	297.2	289.0	289.0	289.0	280.9	278.1	275.4
77.5°	270.0	259.1	253.6	248.1	245.4	240.0	231.8	229.1	220.9	220.9	218.2
80°	207.2	201.8	196.3	193.6	190.9	185.4	180.0	177.2	169.1	169.1	166.3
82.5°	152.7	150.0	147.3	144.5	141.8	139.1	130.9	128.2	122.7	122.7	120.0
85°	109.1	106.3	100.9	98.2	98.2	95.4	87.3	84.5	79.1	79.1	79.1
87.5°	68.2	65.4	62.7	60.0	57.3	54.5	49.1	46.4	46.4	40.9	38.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6105.5	6151.8	6146.4	6179.1	6187.3	6203.6	6209.1	6211.8	6170.9	6203.6	6206.4
5°	6465.4	6473.6	6479.1	6492.7	6506.3	6509.1	6495.4	6479.1	6484.5	6473.6	6446.3
7.5°	6176.4	6135.5	6127.3	6116.4	6110.9	6105.5	6080.9	6102.7	6078.2	6067.3	6029.1
10°	5821.9	5783.7	5781.0	5781.0	5789.2	5786.4	5781.0	5770.1	5791.9	5778.3	5770.1
12.5°	5636.5	5622.8	5631.0	5625.5	5647.4	5652.8	5647.4	5647.4	5641.9	5631.0	5636.5
15°	5524.7	5513.7	5521.9	5513.7	5530.1	5532.8	5519.2	5527.4	5513.7	5500.1	5494.7
17.5°	5377.4	5352.9	5333.8	5306.5	5309.2	5303.8	5287.4	5287.4	5273.8	5238.3	5241.1
20°	5093.8	5069.3	5058.4	5058.4	5072.0	5077.4	5074.7	5080.2	5066.5	5061.1	5039.3
22.5°	4916.6	4913.8	4919.3	4932.9	4954.7	4984.7	4987.5	4987.5	4987.5	4984.7	4957.5
25°	4853.8	4853.8	4859.3	4878.4	4894.7	4916.6	4922.0	4927.5	4922.0	4922.0	4897.5
27.5°	4782.9	4777.5	4788.4	4807.5	4826.6	4842.9	4856.6	4859.3	4851.1	4851.1	4859.3
30°	4695.7	4693.0	4706.6	4725.7	4742.0	4758.4	4772.0	4782.9	4772.0	4772.0	4763.9
32.5°	4605.7	4605.7	4611.1	4496.6	4169.4	3754.9	3763.1	3523.1	3356.8	3146.8	3425.0
35°	2874.1	2091.5	1797.0	1521.6	1328.0	1202.6	1199.8	1158.9	1139.8	1126.2	1123.5
37.5°	1085.3	1090.8	1101.7	1107.1	1115.3	1120.7	1123.5	1123.5	1123.5	1123.5	1120.7
40°	1082.6	1093.5	1101.7	1109.8	1118.0	1123.5	1123.5	1126.2	1128.9	1128.9	1128.9
42.5°	1085.3	1096.2	1107.1	1115.3	1120.7	1123.5	1126.2	1128.9	1128.9	1128.9	1128.9
45°	1082.6	1088.0	1088.0	1090.8	1090.8	1090.8	1093.5	1093.5	1090.8	1088.0	1093.5
47.5°	1041.7	1041.7	1033.5	1030.8	1028.0	1022.6	1025.3	1022.6	1019.9	1017.1	1022.6
50°	970.8	959.9	954.4	949.0	946.2	940.8	943.5	940.8	938.0	932.6	940.8
52.5°	886.2	883.5	872.6	867.1	864.4	867.1	861.7	859.0	856.2	853.5	856.2
55°	804.4	793.5	790.8	785.3	782.6	785.3	782.6	779.9	777.2	774.4	777.2
57.5°	730.8	722.6	719.9	714.4	714.4	714.4	714.4	711.7	709.0	706.3	709.0
60°	659.9	654.5	651.7	651.7	649.0	649.0	649.0	646.3	643.5	643.5	646.3
62.5°	599.9	599.9	591.7	589.0	589.0	591.7	589.0	586.3	583.6	580.8	586.3
65°	537.2	526.3	523.6	518.1	512.7	515.4	512.7	509.9	507.2	504.5	509.9
67.5°	460.8	458.1	447.2	441.8	439.0	441.8	439.0	436.3	433.6	430.8	436.3
70°	387.2	387.2	376.3	373.6	370.9	370.9	368.1	368.1	365.4	362.7	368.1
72.5°	321.8	321.8	319.0	313.6	310.9	308.1	305.4	302.7	302.7	305.4	305.4
75°	267.2	261.8	250.9	253.6	250.9	248.1	248.1	245.4	242.7	248.1	245.4
77.5°	210.0	207.2	199.1	201.8	199.1	196.3	196.3	193.6	190.9	193.6	193.6
80°	158.2	158.2	155.4	152.7	152.7	150.0	147.3	147.3	144.5	147.3	147.3
82.5°	114.5	114.5	111.8	109.1	106.3	106.3	103.6	103.6	103.6	103.6	103.6
85°	73.6	70.9	70.9	65.4	65.4	65.4	62.7	62.7	62.7	62.7	62.7
87.5°	35.4	35.4	32.7	32.7	30.0	27.3	27.3	24.5	24.5	27.3	27.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6157.3	6192.7	6162.7	6176.4	6179.1	6225.5	6222.7	6233.6	6214.6	6192.7	6162.7
5°	6470.9	6454.5	6432.7	6484.5	6457.2	6490.0	6500.9	6522.7	6522.7	6520.0	6495.4
7.5°	6070.0	6034.6	6061.8	6080.9	6089.1	6067.3	6110.9	6160.0	6200.9	6225.5	6228.2
10°	5756.4	5767.3	5764.6	5772.8	5791.9	5789.2	5816.4	5843.7	5854.6	5871.0	5876.4
12.5°	5609.2	5606.5	5611.9	5631.0	5641.9	5639.2	5666.4	5682.8	5688.3	5691.0	5688.3
15°	5491.9	5472.8	5486.5	5489.2	5497.4	5497.4	5530.1	5554.6	5565.6	5571.0	5565.6
17.5°	5271.1	5224.7	5268.3	5268.3	5298.3	5292.9	5344.7	5385.6	5407.4	5423.8	5423.8
20°	5052.9	5031.1	5047.4	5042.0	5063.8	5061.1	5093.8	5121.1	5140.2	5153.8	5170.2
22.5°	4965.6	4971.1	4946.6	4949.3	4949.3	4946.6	4962.9	4976.5	4982.0	4990.2	4984.7
25°	4908.4	4913.8	4905.7	4892.0	4886.6	4892.0	4900.2	4916.6	4919.3	4913.8	4894.7
27.5°	4851.1	4834.8	4848.4	4823.8	4818.4	4829.3	4840.2	4842.9	4845.7	4845.7	4829.3
30°	4763.9	4750.2	4763.9	4752.9	4742.0	4752.9	4761.1	4761.1	4766.6	4769.3	4750.2
32.5°	3329.5	3356.8	3798.5	4065.8	4442.1	4633.0	4668.4	4668.4	4673.9	4673.9	4657.5
35°	1134.4	1137.1	1229.8	1333.4	1554.3	1827.0	2184.2	2369.7	2996.8	3746.7	4472.1
37.5°	1120.7	1118.0	1115.3	1112.6	1109.8	1107.1	1101.7	1098.9	1115.3	1322.5	1794.3
40°	1126.2	1123.5	1118.0	1115.3	1112.6	1107.1	1104.4	1098.9	1093.5	1088.0	1082.6
42.5°	1126.2	1123.5	1120.7	1118.0	1115.3	1112.6	1107.1	1101.7	1096.2	1088.0	1079.8
45°	1088.0	1088.0	1090.8	1090.8	1093.5	1093.5	1093.5	1090.8	1090.8	1088.0	1077.1
47.5°	1017.1	1017.1	1025.3	1025.3	1030.8	1036.2	1036.2	1041.7	1049.8	1055.3	1058.0
50°	935.3	935.3	943.5	946.2	951.7	959.9	968.0	970.8	978.9	989.9	1000.8
52.5°	853.5	853.5	861.7	861.7	867.1	875.3	883.5	886.2	897.1	908.0	921.7
55°	777.2	777.2	782.6	785.3	788.1	793.5	801.7	801.7	812.6	820.8	834.4
57.5°	709.0	714.4	714.4	714.4	717.2	722.6	728.1	728.1	736.3	744.4	755.3
60°	643.5	649.0	649.0	649.0	651.7	654.5	659.9	659.9	665.4	670.8	681.7
62.5°	583.6	589.0	589.0	591.7	591.7	594.5	599.9	597.2	602.6	605.4	613.5
65°	507.2	512.7	515.4	518.1	520.8	526.3	534.5	531.7	539.9	545.4	553.6
67.5°	433.6	439.0	439.0	441.8	444.5	449.9	455.4	455.4	463.6	469.0	479.9
70°	365.4	370.9	370.9	373.6	376.3	381.8	387.2	384.5	392.7	398.1	406.3
72.5°	302.7	308.1	308.1	310.9	310.9	316.3	321.8	327.2	327.2	332.7	338.1
75°	245.4	248.1	250.9	250.9	253.6	256.3	261.8	267.2	270.0	272.7	278.1
77.5°	193.6	196.3	199.1	199.1	201.8	204.5	207.2	218.2	223.6	226.3	226.3
80°	147.3	150.0	150.0	150.0	152.7	155.4	160.9	160.9	171.8	171.8	174.5
82.5°	103.6	106.3	106.3	106.3	109.1	114.5	117.3	120.0	125.4	128.2	128.2
85°	62.7	65.4	65.4	65.4	68.2	70.9	76.4	79.1	81.8	81.8	84.5
87.5°	24.5	27.3	30.0	30.0	32.7	35.4	38.2	40.9	43.6	43.6	46.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6130.0	6149.1	6130.0	6140.9	6154.6	6130.0	6072.8	6050.9	6042.8	6010.0	5988.2
5°	6470.9	6470.9	6462.7	6484.5	6481.8	6443.6	6383.6	6356.3	6329.1	6293.6	6266.4
7.5°	6228.2	6250.0	6263.6	6348.2	6402.7	6408.2	6446.3	6454.5	6465.4	6454.5	6438.2
10°	5879.1	5871.0	5909.1	5988.2	6034.6	6059.1	6132.7	6168.2	6198.2	6258.2	6320.9
12.5°	5682.8	5693.7	5710.1	5767.3	5811.0	5800.1	5830.1	5854.6	5890.1	5950.0	6040.0
15°	5551.9	5562.8	5579.2	5622.8	5650.1	5636.5	5652.8	5669.2	5693.7	5723.7	5778.3
17.5°	5410.1	5429.2	5448.3	5494.7	5519.2	5516.5	5530.1	5535.6	5543.7	5562.8	5601.0
20°	5189.2	5249.2	5287.4	5350.1	5385.6	5380.1	5404.7	5412.8	5423.8	5442.8	5459.2
22.5°	4987.5	5003.8	5022.9	5091.1	5151.1	5224.7	5241.1	5262.9	5290.1	5309.2	5325.6
25°	4872.9	4862.0	4870.2	4916.6	4949.3	4954.7	4979.3	5050.2	5123.8	5156.5	5194.7
27.5°	4804.8	4793.8	4791.1	4812.9	4818.4	4804.8	4799.3	4821.1	4875.7	4930.2	5044.7
30°	4731.1	4717.5	4706.6	4725.7	4733.9	4714.8	4679.3	4660.2	4693.0	4706.6	4752.9
32.5°	4643.9	4630.2	4624.8	4635.7	4641.1	4624.8	4586.6	4564.8	4559.3	4548.4	4559.3
35°	4545.7	4532.1	4523.9	4526.6	4537.5	4523.9	4491.2	4463.9	4450.3	4420.3	4398.5
37.5°	2342.4	3318.6	4308.5	4412.1	4423.0	4420.3	4387.5	4357.5	4343.9	4308.5	4297.6
40°	1071.7	1197.1	1797.0	2347.8	3386.8	4303.0	4273.0	4243.0	4218.5	4207.6	4166.7
42.5°	1068.9	1071.7	1074.4	1060.8	1314.4	2238.8	3305.0	4125.8	4109.4	4082.1	4052.1
45°	1068.9	1055.3	1066.2	1049.8	1055.3	1052.6	1311.6	2116.1	3765.8	3934.9	3921.2
47.5°	1058.0	1049.8	1060.8	1047.1	1030.8	1038.9	1028.0	1041.7	1625.2	2756.9	3776.7
50°	1008.9	1014.4	1033.5	1030.8	1017.1	1028.0	1008.9	1025.3	1011.7	1109.8	2137.9
52.5°	935.3	946.2	965.3	981.7	987.1	1000.8	995.3	1000.8	989.9	992.6	995.3
55°	848.1	861.7	878.1	902.6	913.5	935.3	951.7	959.9	973.5	970.8	949.0
57.5°	766.3	779.9	793.5	818.1	842.6	853.5	883.5	899.9	935.3	927.1	921.7
60°	689.9	700.8	714.4	719.9	749.9	769.0	796.2	812.6	859.0	869.9	886.2
62.5°	621.7	627.2	638.1	646.3	665.4	684.4	698.1	725.3	749.9	785.3	809.9
65°	559.0	564.5	572.6	578.1	580.8	608.1	616.3	646.3	654.5	692.6	714.4
67.5°	488.1	499.0	509.9	515.4	520.8	537.2	542.6	556.3	575.4	591.7	619.0
70°	414.5	422.7	433.6	441.8	452.7	463.6	479.9	488.1	501.7	512.7	534.5
72.5°	346.3	354.5	359.9	368.1	376.3	384.5	398.1	417.2	428.1	447.2	452.7
75°	280.9	289.0	294.5	300.0	308.1	313.6	319.0	338.1	349.0	365.4	381.8
77.5°	231.8	231.8	237.2	253.6	250.9	250.9	256.3	267.2	275.4	286.3	302.7
80°	180.0	182.7	185.4	199.1	201.8	204.5	201.8	210.0	218.2	220.9	231.8
82.5°	133.6	136.3	136.3	144.5	152.7	152.7	152.7	155.4	163.6	166.3	171.8
85°	90.0	92.7	95.4	98.2	103.6	106.3	109.1	109.1	114.5	117.3	120.0
87.5°	49.1	54.5	57.3	60.0	62.7	65.4	68.2	70.9	73.6	76.4	79.1
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-LD5-136SL-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°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	5980.0	5966.4	5958.2	5936.4	5931.0	5895.5	5901.0	5895.5	5895.5	5903.7	5931.0
5°	6236.4	6170.9	6154.6	6108.2	6070.0	6004.6	5963.7	5941.9	5909.1	5895.5	5914.6
7.5°	6410.9	6361.8	6320.9	6280.0	6225.5	6149.1	6091.8	6026.4	5971.9	5920.0	5906.4
10°	6380.9	6435.4	6435.4	6410.9	6359.1	6282.7	6214.6	6132.7	6037.3	5955.5	5906.4
12.5°	6127.3	6222.7	6299.1	6356.3	6408.2	6356.3	6288.2	6222.7	6116.4	5996.4	5906.4
15°	5849.1	5947.3	6042.8	6162.7	6288.2	6340.0	6337.3	6260.9	6165.5	6040.0	5914.6
17.5°	5652.8	5721.0	5772.8	5903.7	6056.4	6190.0	6280.0	6285.5	6192.7	6080.9	5917.3
20°	5505.6	5554.6	5598.3	5671.9	5805.5	5969.1	6135.5	6228.2	6211.8	6089.1	5925.5
22.5°	5371.9	5407.4	5442.8	5497.4	5603.7	5710.1	5903.7	6094.6	6176.4	6075.5	5917.3
25°	5238.3	5276.5	5303.8	5342.0	5426.5	5513.7	5650.1	5887.3	6070.0	6064.6	5901.0
27.5°	5080.2	5132.0	5164.7	5216.5	5273.8	5339.2	5431.9	5655.5	5917.3	6010.0	5857.3
30°	4889.3	4965.6	5014.7	5072.0	5121.1	5178.3	5252.0	5388.3	5712.8	5903.7	5811.0
32.5°	4613.9	4750.2	4859.3	4913.8	4968.4	5017.5	5082.9	5197.4	5461.9	5759.2	5759.2
35°	4417.5	4480.3	4578.4	4736.6	4804.8	4853.8	4913.8	5003.8	5172.9	5587.4	5674.6
37.5°	4264.8	4289.4	4338.5	4493.9	4622.1	4701.1	4761.1	4818.4	4984.7	5352.9	5565.6
40°	4150.3	4142.1	4136.7	4210.3	4393.0	4518.4	4586.6	4643.9	4772.0	5072.0	5421.0
42.5°	4016.7	4008.5	3981.2	4000.3	4090.3	4300.3	4403.9	4466.6	4573.0	4777.5	5262.9
45°	3877.6	3864.0	3853.1	3834.0	3866.7	3984.0	4196.7	4289.4	4349.4	4532.1	5063.8
47.5°	3735.8	3716.7	3703.1	3686.7	3667.6	3722.2	3924.0	4090.3	4193.9	4308.5	4823.8
50°	3534.0	3558.6	3542.2	3523.1	3506.8	3495.9	3580.4	3853.1	3981.2	4074.0	4532.1
52.5°	1666.1	3239.5	3375.9	3356.8	3335.0	3315.9	3335.0	3542.2	3774.0	3847.6	4180.3
55°	949.0	1442.5	3002.3	3174.1	3155.0	3127.7	3111.4	3182.3	3528.6	3626.7	3858.5
57.5°	913.5	916.2	1325.3	2860.5	2966.8	2942.3	2923.2	2939.6	3234.1	3400.4	3577.7
60°	883.5	883.5	883.5	1265.3	2735.1	2743.2	2718.7	2691.4	2819.6	3146.8	3294.1
62.5°	818.1	834.4	842.6	842.6	1248.9	2533.3	2508.7	2500.5	2506.0	2841.4	3010.5
65°	733.5	771.7	788.1	799.0	799.0	1311.6	2293.3	2279.7	2260.6	2388.7	2724.1
67.5°	640.8	679.0	714.4	736.3	739.0	763.5	1368.9	2053.3	2026.1	2028.8	2418.7
70°	545.4	578.1	616.3	649.0	679.0	692.6	714.4	1704.3	1794.3	1756.1	2072.4
72.5°	471.7	485.4	512.7	545.4	580.8	613.5	632.6	679.0	1557.0	1516.1	1576.1
75°	392.7	403.6	422.7	444.5	471.7	509.9	542.6	575.4	826.2	1270.7	1262.5
77.5°	305.4	324.5	346.3	359.9	373.6	400.9	444.5	477.2	509.9	859.0	1011.7
80°	234.5	248.1	259.1	272.7	289.0	308.1	324.5	362.7	400.9	430.8	774.4
82.5°	174.5	182.7	190.9	196.3	201.8	212.7	242.7	256.3	280.9	308.1	365.4
85°	122.7	128.2	133.6	136.3	139.1	141.8	152.7	155.4	180.0	185.4	220.9
87.5°	79.1	81.8	87.3	90.0	90.0	92.7	95.4	95.4	95.4	90.0	109.1
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-LD5-136SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	5950.0	5950.0
2.5°	5952.8	5996.4
5°	5944.6	6001.9
7.5°	5922.8	5977.3
10°	5890.1	5955.5
12.5°	5854.6	5917.3
15°	5824.6	5871.0
17.5°	5791.9	5819.2
20°	5748.3	5770.1
22.5°	5704.6	5693.7
25°	5655.5	5631.0
27.5°	5592.8	5546.5
30°	5535.6	5453.8
32.5°	5481.0	5347.4
35°	5407.4	5238.3
37.5°	5331.0	5126.5
40°	5241.1	4998.4
42.5°	5145.6	4870.2
45°	5025.6	4747.5
47.5°	4919.3	4600.2
50°	4772.0	4442.1
52.5°	4592.1	4294.8
55°	4379.4	4114.9
57.5°	4150.3	3926.7
60°	3904.9	3711.3
62.5°	3607.7	3487.7
65°	3258.6	3231.3
67.5°	2803.2	2947.8
70°	2298.8	2623.3
72.5°	1922.4	2279.7
75°	1576.1	1895.2
77.5°	1248.9	1486.1
80°	779.9	1088.0
82.5°	523.6	714.4
85°	316.3	340.9
87.5°	122.7	125.4
90°	0.0	0.0

(END OF REPORT)