

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-LD5-170HL-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-LD5-170HL-RW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

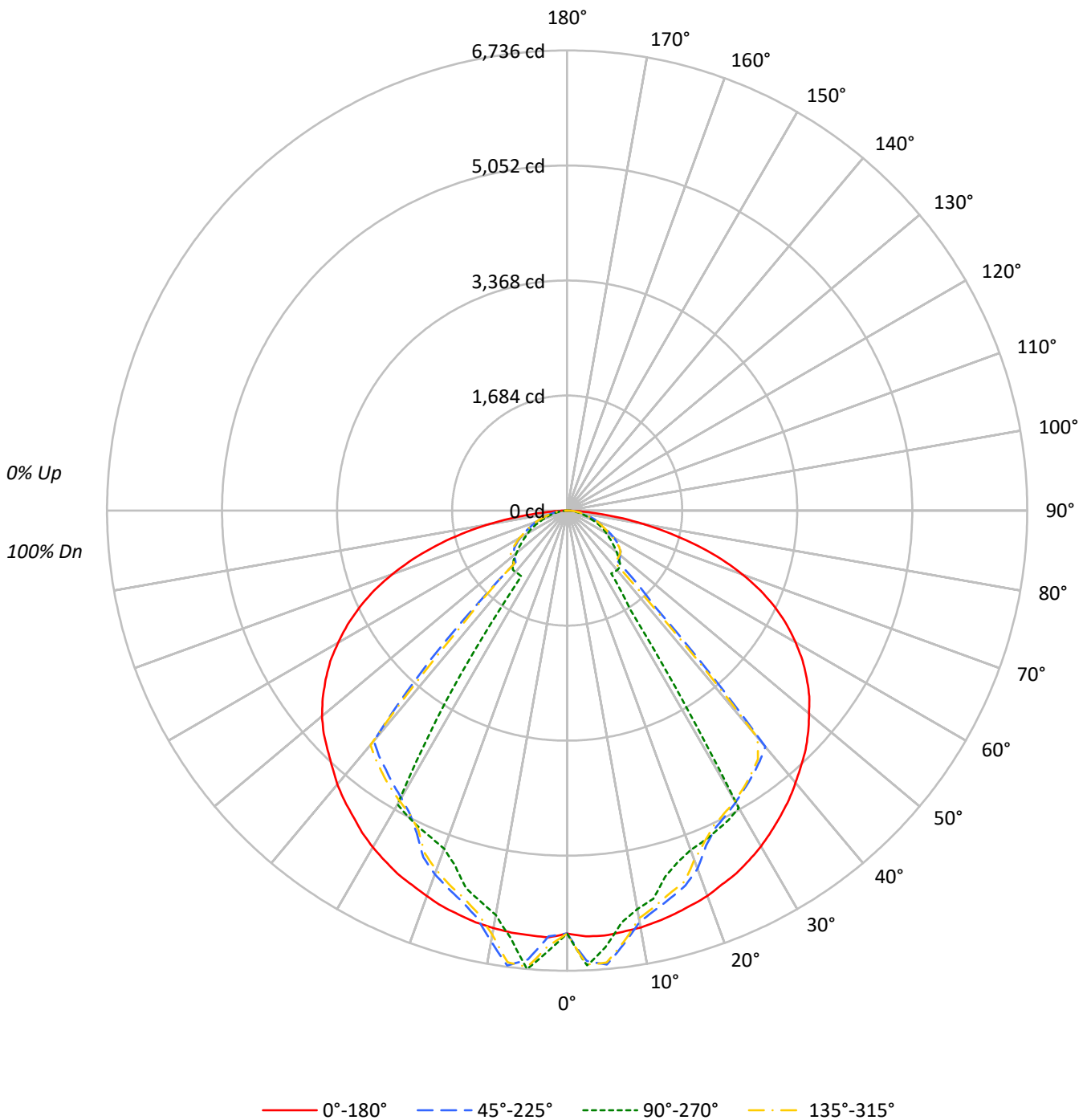
Lumens per Lamp: N/A
Luminaire Lumens: 12398.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 124
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	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	
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°	25016	25016	25016	25016
5°	25296	25204	25284	26452
10°	25355	22788	25390	23137
15°	25448	21083	25506	21752
20°	25670	19997	25670	19922
25°	25933	19615	25971	19431
30°	26240	19269	26305	19040
35°	26595	4389	26650	4577
40°	27078	4564	27240	4712
45°	27793	4538	27889	4703
50°	28524	4104	28909	4214
55°	29504	3644	29738	3695
60°	30384	3237	30451	3279
65°	31104	2825	31025	2780
70°	30919	2277	30823	2195
75°	29089	1753	29299	1679
80°	24198	1245	25168	1139
85°	13952	746	14731	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.1	4.9
10°-20°	1674.8	13.5
20°-30°	2480.8	20.0
30°-40°	2499.6	20.2
40°-50°	1952.6	15.7
50°-60°	1508.2	12.2
60°-70°	1012.6	8.2
70°-80°	516.6	4.2
80°-90°	143.7	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°	4764.8	38.4
0°-40°	7264.4	58.6
0°-60°	10725.1	86.5
0°-90°	12398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12398.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6191	6191	6191	6191	6191	
5°	6245	6418	6242	6736	6245	594
15°	6109	5547	6123	5723	6109	1728
25°	5859	5170	5868	5122	5859	2703
35°	5451	1124	5462	1172	5451	3416
45°	4940	1092	4957	1132	4940	3809
55°	4282	794	4316	806	4282	3824
65°	3362	533	3354	525	3362	3307
75°	1972	270	1986	258	1972	2062
85°	355	85	374	65	355	488
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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6239.5	6262.2	6279.2	6290.6	6296.2	6296.2	6299.1	6301.9	6338.8	6355.8	6367.2
5°	6245.2	6267.9	6301.9	6347.3	6387.0	6421.1	6449.4	6489.2	6528.9	6571.5	6585.6
7.5°	6219.6	6248.0	6316.1	6398.4	6475.0	6528.9	6565.8	6591.3	6611.2	6614.0	6628.2
10°	6196.9	6248.0	6341.6	6449.4	6545.9	6611.2	6611.2	6597.0	6616.9	6540.2	6463.6
12.5°	6157.2	6213.9	6341.6	6483.5	6574.3	6599.8	6588.5	6531.7	6415.4	6321.8	6279.2
15°	6109.0	6185.6	6344.5	6503.4	6580.0	6588.5	6480.7	6336.0	6248.0	6191.2	6120.3
17.5°	6055.0	6157.2	6347.3	6506.2	6534.6	6494.8	6290.6	6199.8	6109.0	5975.6	5879.1
20°	6004.0	6103.3	6324.6	6466.5	6483.5	6304.7	6145.8	6049.4	5896.2	5779.8	5737.3
22.5°	5924.5	6040.9	6304.7	6412.6	6347.3	6140.2	5986.9	5833.7	5694.7	5660.6	5609.6
25°	5859.3	5981.3	6259.3	6347.3	6174.2	5989.8	5811.0	5632.3	5567.0	5518.8	5473.4
27.5°	5771.3	5921.7	6199.8	6228.1	5989.8	5828.1	5567.0	5487.6	5428.0	5374.1	5354.2
30°	5674.8	5859.3	6117.5	6063.6	5836.6	5598.2	5405.3	5331.5	5288.9	5232.2	5209.5
32.5°	5564.2	5765.6	6026.7	5873.5	5672.0	5374.1	5249.2	5192.5	5135.7	5093.2	4951.3
35°	5450.7	5683.3	5918.9	5691.9	5473.4	5203.8	5093.2	5042.1	4988.2	4832.1	4684.6
37.5°	5334.3	5592.5	5788.3	5496.1	5209.5	5027.9	4934.3	4877.5	4755.5	4556.9	4483.1
40°	5201.0	5481.9	5620.9	5294.6	4979.7	4849.1	4761.2	4704.4	4429.2	4341.2	4318.5
42.5°	5067.6	5374.1	5416.6	5098.8	4789.6	4659.0	4585.3	4398.0	4210.7	4165.3	4173.8
45°	4939.9	5257.7	5192.5	4820.8	4590.9	4483.1	4358.3	4100.1	4000.8	4023.5	4029.1
47.5°	4786.7	5118.7	4957.0	4542.7	4386.6	4278.8	4000.8	3844.7	3830.5	3861.7	3878.7
50°	4622.2	4962.6	4707.3	4290.2	4165.3	4037.6	3722.7	3643.2	3660.3	3691.5	3711.3
52.5°	4468.9	4786.7	4449.1	4054.7	3946.8	3654.6	3441.8	3456.0	3484.3	3521.2	3532.6
55°	4281.7	4573.9	4173.8	3816.3	3714.2	3331.1	3234.7	3268.7	3297.1	3328.3	3351.0
57.5°	4085.9	4329.9	3847.5	3549.6	3385.0	3044.5	3053.1	3075.8	3095.6	3132.5	1293.9
60°	3861.7	4051.8	3490.0	3302.8	2976.4	2817.6	2826.1	2865.8	2885.7	1611.7	890.9
62.5°	3629.1	3728.4	3166.6	3021.8	2601.9	2590.6	2630.3	2647.3	1801.8	851.2	834.2
65°	3362.3	3342.5	2848.8	2618.9	2346.5	2357.9	2400.5	2315.3	797.3	797.3	791.6
67.5°	3067.2	2948.1	2539.5	2167.8	2099.7	2125.2	2170.6	757.6	737.7	743.4	723.5
70°	2729.6	2562.2	2218.9	1835.8	1858.5	1884.0	732.1	686.7	678.1	664.0	624.2
72.5°	2372.1	2142.2	1815.9	1594.6	1608.8	1010.1	641.3	618.6	590.2	561.8	519.2
75°	1972.0	1674.1	1333.6	1333.6	1353.4	576.0	559.0	522.1	490.9	454.0	428.4
77.5°	1546.4	1288.2	1035.7	1075.4	524.9	482.4	451.1	411.4	385.9	363.2	349.0
80°	1132.1	899.5	780.3	698.0	408.6	366.0	334.8	312.1	300.8	286.6	269.6
82.5°	743.4	541.9	541.9	329.1	286.6	252.5	244.0	227.0	215.6	207.1	198.6
85°	354.7	315.0	238.3	201.5	178.8	161.7	156.1	147.5	147.5	144.7	141.9
87.5°	130.5	141.9	105.0	102.1	96.5	93.6	96.5	96.5	99.3	96.5	93.6
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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6395.5	6418.2	6435.3	6463.6	6500.5	6531.7	6560.1	6599.8	6662.3	6679.3	6693.5
5°	6585.6	6594.2	6614.0	6636.7	6642.4	6656.6	6653.7	6670.8	6679.3	6699.1	6656.6
7.5°	6597.0	6551.6	6497.7	6449.4	6415.4	6384.2	6364.3	6395.5	6412.6	6426.7	6384.2
10°	6358.6	6304.7	6273.5	6245.2	6211.1	6162.9	6097.6	6111.8	6106.1	6106.1	6091.9
12.5°	6208.3	6131.7	6052.2	5981.3	5950.1	5947.2	5950.1	5981.3	5981.3	5978.4	5961.4
15°	5972.8	5899.0	5859.3	5842.2	5842.2	5833.7	5833.7	5867.8	5859.3	5859.3	5850.8
17.5°	5816.7	5765.6	5737.3	5717.4	5708.9	5723.1	5740.1	5754.3	5757.1	5745.8	5700.4
20°	5689.0	5640.8	5606.7	5612.4	5609.6	5618.1	5626.6	5578.4	5518.8	5439.3	5402.4
22.5°	5555.7	5518.8	5493.2	5493.2	5459.2	5405.3	5325.8	5308.8	5300.3	5263.4	5232.2
25°	5428.0	5385.4	5348.5	5235.0	5164.1	5172.6	5158.4	5130.0	5127.2	5124.4	5135.7
27.5°	5300.3	5189.6	5047.8	5030.7	5002.4	4999.5	5016.6	5030.7	5030.7	5042.1	5056.3
30°	5036.4	4908.7	4883.2	4852.0	4863.3	4903.1	4911.6	4931.4	4937.1	4957.0	4968.3
32.5°	4795.2	4738.5	4715.8	4730.0	4766.9	4800.9	4820.8	4829.3	4843.5	4860.5	4874.7
35°	4599.5	4582.4	4602.3	4633.5	4670.4	4698.8	4715.8	4732.8	4747.0	4761.2	4772.5
37.5°	4454.7	4466.1	4494.5	4534.2	4571.1	4593.8	4608.0	4627.8	4647.7	4664.7	4596.6
40°	4318.5	4346.9	4378.1	4420.7	4451.9	4474.6	4488.8	4514.3	4344.1	1966.3	1078.2
42.5°	4199.4	4230.6	4253.3	4287.3	4321.4	4338.4	4213.6	1881.2	1064.0	1058.4	1072.5
45°	4054.7	4080.2	4117.1	4142.6	4173.8	2740.9	1047.0	1058.4	1041.3	1052.7	1058.4
47.5°	3907.1	3946.8	3966.7	3785.1	1126.5	1041.3	1030.0	1041.3	1030.0	1044.2	1035.7
50°	3739.7	3788.0	2695.5	1018.6	1010.1	1004.4	1015.8	1010.1	1018.6	1030.0	1007.3
52.5°	3569.5	2210.3	987.4	981.7	987.4	981.7	1001.6	987.4	990.3	978.9	950.5
55°	1208.7	956.2	947.7	944.9	961.9	961.9	961.9	939.2	925.0	896.6	876.8
57.5°	925.0	925.0	922.2	925.0	919.3	913.6	888.1	868.2	848.4	808.7	797.3
60°	876.8	876.8	876.8	876.8	851.2	839.9	800.2	783.1	749.1	729.2	717.9
62.5°	837.0	831.4	805.8	797.3	768.9	737.7	715.0	698.0	664.0	652.6	644.1
65°	780.3	760.4	729.2	695.2	681.0	646.9	635.6	610.0	593.0	584.5	578.8
67.5°	686.7	658.3	632.7	610.0	584.5	573.2	559.0	539.1	527.8	522.1	516.4
70°	587.3	567.5	541.9	527.8	510.7	502.2	482.4	476.7	468.2	459.7	451.1
72.5°	490.9	479.5	468.2	448.3	442.6	437.0	417.1	405.8	394.4	383.1	377.4
75°	411.4	402.9	397.2	380.2	371.7	354.7	340.5	332.0	323.5	315.0	309.3
77.5°	337.7	332.0	315.0	303.6	297.9	283.7	278.1	280.9	275.2	263.9	258.2
80°	263.9	258.2	244.0	244.0	238.3	232.7	227.0	221.3	215.6	207.1	201.5
82.5°	201.5	195.8	190.1	184.4	178.8	175.9	173.1	167.4	161.7	156.1	153.2
85°	141.9	139.0	136.2	133.4	130.5	127.7	124.8	119.2	113.5	110.7	107.8
87.5°	96.5	93.6	90.8	88.0	85.1	82.3	79.4	76.6	70.9	68.1	65.3
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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6693.5	6707.7	6693.5	6662.3	6642.4	6633.9	6650.9	6650.9	6662.3	6676.4	6679.3
5°	6588.5	6554.4	6514.7	6475.0	6455.1	6443.8	6412.6	6418.2	6426.7	6432.4	6438.1
7.5°	6327.4	6282.0	6228.1	6177.1	6157.2	6140.2	6103.3	6103.3	6103.3	6106.1	6123.1
10°	6060.7	6040.9	6018.2	5984.1	5958.6	5950.1	5918.9	5927.4	5921.7	5930.2	5950.1
12.5°	5935.9	5913.2	5893.3	5859.3	5830.9	5819.5	5805.4	5813.9	5811.0	5825.2	5842.2
15°	5822.4	5811.0	5788.3	5762.8	5737.3	5714.6	5663.5	5646.5	5635.1	5620.9	5640.8
17.5°	5635.1	5555.7	5501.8	5462.0	5433.7	5413.8	5399.6	5399.6	5408.1	5416.6	5433.7
20°	5379.7	5357.0	5331.5	5288.9	5260.6	5249.2	5240.7	5240.7	5254.9	5266.2	5297.5
22.5°	5203.8	5201.0	5192.5	5172.6	5158.4	5158.4	5161.3	5166.9	5186.8	5203.8	5235.0
25°	5121.5	5132.9	5127.2	5115.9	5107.3	5110.2	5104.5	5110.2	5130.0	5147.1	5172.6
27.5°	5056.3	5073.3	5067.6	5050.6	5036.4	5042.1	5050.6	5044.9	5062.0	5081.8	5101.7
30°	4968.3	4971.2	4982.5	4962.6	4957.0	4965.5	4968.3	4974.0	4991.0	5005.2	5022.2
32.5°	4869.0	4891.7	4888.9	4869.0	4869.0	4877.5	4880.4	4690.2	4335.6	3734.0	3569.5
35°	4772.5	4798.1	4755.5	4009.3	2775.0	1481.1	1143.5	1103.8	1112.3	1117.9	1123.6
37.5°	3529.7	1674.1	1066.9	1075.4	1083.9	1092.4	1100.9	1109.4	1117.9	1126.5	1129.3
40°	1061.2	1058.4	1066.9	1078.2	1086.7	1092.4	1103.8	1112.3	1120.8	1129.3	1132.1
42.5°	1049.8	1055.5	1064.0	1075.4	1086.7	1098.1	1106.6	1117.9	1123.6	1129.3	1132.1
45°	1044.2	1055.5	1066.9	1075.4	1083.9	1089.6	1095.2	1098.1	1095.2	1095.2	1100.9
47.5°	1035.7	1047.0	1049.8	1047.0	1049.8	1047.0	1047.0	1047.0	1038.5	1035.7	1035.7
50°	1004.4	1004.4	998.8	987.4	984.6	981.7	976.1	973.2	961.9	959.0	959.0
52.5°	939.2	936.3	927.8	913.6	908.0	902.3	899.5	896.6	885.3	879.6	882.4
55°	862.6	856.9	848.4	831.4	828.5	822.9	820.0	817.2	805.8	811.5	803.0
57.5°	791.6	780.3	768.9	766.1	754.8	751.9	749.1	746.2	737.7	740.6	734.9
60°	706.5	703.7	698.0	686.7	686.7	683.8	683.8	678.1	672.5	669.6	669.6
62.5°	644.1	635.6	629.9	629.9	621.4	621.4	621.4	615.7	610.0	612.9	610.0
65°	576.0	573.2	570.3	564.6	564.6	561.8	561.8	556.1	547.6	550.5	544.8
67.5°	519.2	513.6	507.9	505.1	493.7	488.0	485.2	482.4	471.0	473.8	468.2
70°	448.3	439.8	434.1	428.4	419.9	414.3	414.3	408.6	400.1	402.9	397.2
72.5°	374.5	368.9	363.2	360.4	351.8	349.0	346.2	343.3	334.8	337.7	334.8
75°	312.1	312.1	309.3	306.4	297.9	289.4	283.7	280.9	275.2	278.1	272.4
77.5°	258.2	252.5	246.9	246.9	238.3	232.7	227.0	227.0	227.0	224.2	221.3
80°	201.5	195.8	195.8	192.9	187.3	181.6	178.8	178.8	175.9	175.9	173.1
82.5°	153.2	147.5	144.7	144.7	139.0	136.2	133.4	130.5	130.5	130.5	127.7
85°	107.8	102.1	99.3	99.3	93.6	90.8	90.8	88.0	88.0	85.1	85.1
87.5°	65.3	62.4	59.6	59.6	53.9	51.1	51.1	51.1	48.2	48.2	45.4
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6679.3	6679.3	6659.4	6665.1	6656.6	6667.9	6653.7	6653.7	6670.8	6670.8	6682.1
5°	6440.9	6426.7	6423.9	6418.2	6389.9	6401.2	6387.0	6372.8	6392.7	6392.7	6418.2
7.5°	6114.6	6089.1	6100.4	6083.4	6066.4	6040.9	6049.4	6038.0	6052.2	6072.1	6097.6
10°	5947.2	5924.5	5938.7	5921.7	5930.2	5893.3	5896.2	5899.0	5913.2	5918.9	5941.5
12.5°	5839.4	5833.7	5828.1	5822.4	5828.1	5808.2	5796.8	5799.7	5805.4	5808.2	5825.2
15°	5612.4	5575.5	5586.9	5547.1	5550.0	5552.8	5530.1	5552.8	5550.0	5586.9	5620.9
17.5°	5428.0	5428.0	5408.1	5391.1	5379.7	5376.9	5359.9	5371.2	5359.9	5382.6	5391.1
20°	5300.3	5297.5	5294.6	5286.1	5257.7	5260.6	5269.1	5243.5	5240.7	5237.9	5254.9
22.5°	5240.7	5243.5	5232.2	5232.2	5206.7	5212.3	5215.2	5186.8	5189.6	5181.1	5189.6
25°	5178.3	5184.0	5169.8	5169.8	5164.1	5161.3	5147.1	5152.7	5135.7	5121.5	5135.7
27.5°	5104.5	5115.9	5104.5	5110.2	5098.8	5093.2	5084.6	5079.0	5062.0	5059.1	5067.6
30°	5036.4	5042.1	5039.3	5025.1	5022.2	5005.2	5013.7	4996.7	4979.7	4982.5	4988.2
32.5°	2582.0	2465.7	1901.1	1716.6	1699.6	1762.0	2088.3	2542.3	3294.2	4023.5	4548.4
35°	1126.5	1126.5	1126.5	1123.6	1123.6	1120.8	1117.9	1115.1	1112.3	1109.4	1106.6
37.5°	1132.1	1132.1	1132.1	1132.1	1129.3	1126.5	1126.5	1120.8	1117.9	1115.1	1112.3
40°	1135.0	1137.8	1137.8	1137.8	1135.0	1135.0	1132.1	1126.5	1123.6	1117.9	1112.3
42.5°	1132.1	1135.0	1135.0	1132.1	1132.1	1129.3	1129.3	1126.5	1123.6	1120.8	1117.9
45°	1095.2	1098.1	1092.4	1092.4	1089.6	1089.6	1089.6	1089.6	1089.6	1092.4	1092.4
47.5°	1030.0	1030.0	1027.1	1024.3	1024.3	1021.5	1024.3	1021.5	1027.1	1030.0	1035.7
50°	953.4	953.4	947.7	944.9	944.9	944.9	944.9	947.7	950.5	956.2	961.9
52.5°	873.9	873.9	871.1	868.2	865.4	865.4	873.9	871.1	873.9	876.8	885.3
55°	797.3	800.2	794.5	794.5	791.6	791.6	791.6	794.5	797.3	800.2	808.7
57.5°	732.1	732.1	726.4	726.4	726.4	723.5	732.1	726.4	729.2	732.1	737.7
60°	666.8	664.0	664.0	661.1	661.1	661.1	666.8	664.0	664.0	666.8	672.5
62.5°	607.2	607.2	604.4	604.4	601.5	601.5	607.2	604.4	604.4	607.2	610.0
65°	539.1	539.1	536.3	533.4	541.9	533.4	541.9	536.3	541.9	544.8	550.5
67.5°	462.5	462.5	462.5	459.7	459.7	465.3	468.2	462.5	465.3	471.0	473.8
70°	394.4	394.4	391.6	391.6	391.6	397.2	400.1	394.4	397.2	400.1	405.8
72.5°	334.8	329.1	329.1	326.3	332.0	332.0	334.8	332.0	334.8	334.8	340.5
75°	275.2	269.6	269.6	269.6	275.2	272.4	275.2	272.4	275.2	275.2	278.1
77.5°	221.3	218.5	215.6	215.6	221.3	221.3	221.3	218.5	221.3	224.2	227.0
80°	173.1	170.2	167.4	167.4	173.1	173.1	173.1	175.9	173.1	175.9	178.8
82.5°	127.7	124.8	122.0	127.7	127.7	127.7	127.7	130.5	127.7	130.5	133.4
85°	85.1	82.3	79.4	85.1	85.1	85.1	85.1	88.0	85.1	88.0	90.8
87.5°	45.4	42.6	42.6	45.4	45.4	45.4	48.2	48.2	48.2	51.1	51.1
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6699.1	6707.7	6704.8	6687.8	6670.8	6650.9	6636.7	6639.6	6667.9	6676.4	6650.9
5°	6418.2	6472.1	6472.1	6509.0	6489.2	6472.1	6483.5	6545.9	6577.1	6625.4	6642.4
7.5°	6128.8	6154.4	6151.5	6188.4	6182.7	6182.7	6191.2	6273.5	6313.3	6353.0	6364.3
10°	5967.1	5992.6	5989.8	5992.6	5984.1	5964.2	5964.2	6001.1	6035.2	6055.0	6060.7
12.5°	5850.8	5864.9	5862.1	5862.1	5856.4	5839.4	5836.6	5867.8	5904.7	5930.2	5933.0
15°	5677.7	5717.4	5725.9	5762.8	5754.3	5731.6	5737.3	5762.8	5785.5	5808.2	5799.7
17.5°	5419.5	5439.3	5442.2	5456.4	5450.7	5450.7	5484.7	5578.4	5640.8	5694.7	5700.4
20°	5271.9	5286.1	5280.4	5311.6	5297.5	5294.6	5303.1	5342.9	5371.2	5396.8	5442.2
22.5°	5201.0	5212.3	5203.8	5206.7	5181.1	5158.4	5152.7	5184.0	5215.2	5249.2	5249.2
25°	5141.4	5149.9	5147.1	5141.4	5121.5	5090.3	5084.6	5090.3	5101.7	5104.5	5084.6
27.5°	5070.5	5076.1	5076.1	5079.0	5053.4	5025.1	5019.4	5013.7	5025.1	5022.2	4991.0
30°	4996.7	4988.2	4991.0	4993.9	4971.2	4945.6	4934.3	4931.4	4942.8	4939.9	4908.7
32.5°	4820.8	4886.0	4891.7	4897.4	4877.5	4854.8	4843.5	4835.0	4840.6	4837.8	4809.4
35°	1103.8	1123.6	1376.1	3115.5	4230.6	4684.6	4732.8	4721.5	4724.3	4724.3	4701.6
37.5°	1106.6	1103.8	1100.9	1092.4	1083.9	1078.2	1864.2	3975.2	4605.1	4608.0	4588.1
40°	1106.6	1103.8	1100.9	1095.2	1083.9	1075.4	1061.2	1049.8	1075.4	2366.4	4329.9
42.5°	1112.3	1106.6	1100.9	1095.2	1083.9	1072.5	1061.2	1047.0	1055.5	1049.8	1035.7
45°	1095.2	1092.4	1092.4	1089.6	1083.9	1072.5	1058.4	1041.3	1032.8	1041.3	1027.1
47.5°	1041.3	1044.2	1052.7	1055.5	1055.5	1058.4	1049.8	1038.5	1024.3	1032.8	1015.8
50°	967.6	973.2	976.1	990.3	995.9	1007.3	1010.1	1010.1	1007.3	1018.6	1007.3
52.5°	888.1	893.8	908.0	913.6	919.3	936.3	942.0	950.5	956.2	973.2	984.6
55°	811.5	814.3	820.0	831.4	839.9	854.1	862.6	871.1	885.3	893.8	927.8
57.5°	740.6	743.4	754.8	757.6	763.3	774.6	783.1	794.5	805.8	811.5	851.2
60°	672.5	675.3	683.8	686.7	689.5	700.8	709.4	717.9	726.4	732.1	760.4
62.5°	612.9	612.9	621.4	621.4	624.2	632.7	638.4	644.1	652.6	655.4	669.6
65°	553.3	556.1	561.8	561.8	564.6	570.3	573.2	576.0	584.5	584.5	595.9
67.5°	479.5	482.4	490.9	496.5	499.4	510.7	513.6	516.4	522.1	524.9	530.6
70°	408.6	411.4	419.9	422.8	425.6	434.1	439.8	448.3	456.8	465.3	471.0
72.5°	343.3	346.2	354.7	354.7	363.2	366.0	371.7	374.5	383.1	388.7	397.2
75°	280.9	283.7	292.3	292.3	300.8	303.6	306.4	309.3	315.0	320.6	326.3
77.5°	229.8	229.8	241.2	246.9	252.5	252.5	255.4	255.4	255.4	258.2	263.9
80°	181.6	181.6	190.1	195.8	201.5	201.5	204.3	207.1	210.0	210.0	212.8
82.5°	136.2	136.2	144.7	147.5	153.2	153.2	153.2	156.1	158.9	156.1	161.7
85°	93.6	93.6	99.3	102.1	107.8	107.8	107.8	110.7	113.5	110.7	113.5
87.5°	53.9	56.7	59.6	62.4	65.3	68.1	68.1	68.1	70.9	70.9	73.8
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6622.5	6588.5	6585.6	6545.9	6534.6	6537.4	6506.2	6494.8	6443.8	6432.4	6378.5
5°	6648.1	6665.1	6656.6	6653.7	6662.3	6656.6	6633.9	6622.5	6614.0	6591.3	6545.9
7.5°	6367.2	6378.5	6387.0	6423.9	6455.1	6509.0	6565.8	6602.7	6631.0	6636.7	6599.8
10°	6080.6	6134.5	6171.4	6228.1	6273.5	6304.7	6338.8	6370.0	6452.3	6534.6	6582.8
12.5°	5933.0	5947.2	5944.4	5975.6	6006.8	6089.1	6168.5	6213.9	6276.4	6313.3	6401.2
15°	5808.2	5811.0	5819.5	5842.2	5859.3	5887.6	5924.5	5992.6	6117.5	6174.2	6222.5
17.5°	5694.7	5694.7	5700.4	5720.2	5742.9	5768.5	5791.2	5819.5	5882.0	5975.6	6094.8
20°	5513.1	5592.5	5601.1	5598.2	5609.6	5657.8	5663.5	5714.6	5745.8	5782.7	5899.0
22.5°	5243.5	5291.8	5359.9	5464.9	5504.6	5527.3	5544.3	5567.0	5615.2	5657.8	5706.0
25°	5096.0	5127.2	5147.1	5178.3	5260.6	5393.9	5419.5	5445.0	5476.2	5507.4	5567.0
27.5°	4965.5	4962.6	4976.8	5005.2	5027.9	5098.8	5223.7	5323.0	5328.7	5374.1	5425.1
30°	4871.8	4854.8	4835.0	4829.3	4860.5	4897.4	4934.3	5090.3	5198.1	5220.8	5274.8
32.5°	4783.9	4755.5	4727.1	4704.4	4684.6	4715.8	4738.5	4806.6	4945.6	5076.1	5104.5
35°	4676.1	4647.7	4613.6	4588.1	4556.9	4554.1	4551.2	4616.5	4661.9	4817.9	4954.1
37.5°	4565.4	4534.2	4505.8	4477.4	4446.2	4423.5	4409.3	4426.4	4468.9	4537.0	4764.0
40°	4449.1	4412.2	4383.8	4361.1	4318.5	4301.5	4273.1	4261.8	4264.6	4324.2	4443.4
42.5°	2658.7	4239.1	4253.3	4227.8	4190.9	4168.2	4137.0	4122.8	4094.4	4122.8	4190.9
45°	1024.3	1035.7	3101.3	4097.2	4051.8	4023.5	3995.1	3980.9	3949.7	3927.0	3989.4
47.5°	1004.4	1015.8	993.1	1407.4	3867.4	3875.9	3841.9	3827.7	3796.5	3779.4	3762.4
50°	990.3	998.8	981.7	987.4	967.6	3543.9	3685.8	3668.8	3634.7	3614.9	3580.8
52.5°	976.1	976.1	964.7	950.5	944.9	947.7	2982.1	3507.0	3467.3	3447.5	3402.1
55°	930.7	936.3	947.7	925.0	919.3	916.5	908.0	2840.3	3282.9	3260.2	3220.5
57.5°	862.6	873.9	905.1	899.5	899.5	876.8	871.1	871.1	2636.0	3070.1	3030.4
60°	783.1	794.5	828.5	839.9	848.4	842.7	837.0	834.2	822.9	2777.8	2828.9
62.5°	700.8	712.2	723.5	760.4	771.8	786.0	803.0	794.5	783.1	783.1	2616.1
65°	612.9	629.9	635.6	669.6	683.8	709.4	723.5	743.4	737.7	734.9	749.1
67.5°	536.3	556.1	559.0	573.2	598.7	610.0	627.1	664.0	681.0	686.7	692.3
70°	471.0	482.4	490.9	496.5	513.6	516.4	547.6	573.2	598.7	627.1	635.6
72.5°	405.8	414.3	431.3	425.6	431.3	442.6	459.7	476.7	502.2	541.9	567.5
75°	332.0	337.7	349.0	354.7	366.0	374.5	385.9	400.1	422.8	442.6	476.7
77.5°	266.7	269.6	278.1	280.9	292.3	300.8	320.6	329.1	343.3	357.5	377.4
80°	215.6	215.6	218.5	218.5	227.0	235.5	249.7	258.2	275.2	286.6	286.6
82.5°	164.6	164.6	173.1	173.1	178.8	178.8	187.3	187.3	195.8	201.5	207.1
85°	116.3	119.2	124.8	122.0	127.7	124.8	130.5	136.2	139.0	136.2	133.4
87.5°	76.6	76.6	82.3	79.4	82.3	82.3	88.0	88.0	90.8	90.8	88.0
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6358.6	6316.1	6290.6	6259.3	6250.8	6242.3	6253.7	6253.7	6236.6	6222.5	6196.9
5°	6506.2	6460.8	6412.6	6361.5	6313.3	6262.2	6242.3	6239.5	6208.3	6191.2	6182.7
7.5°	6582.8	6560.1	6506.2	6435.3	6361.5	6270.7	6231.0	6208.3	6177.1	6171.4	6171.4
10°	6591.3	6565.8	6537.4	6486.3	6401.2	6282.0	6205.4	6160.0	6131.7	6151.5	6188.4
12.5°	6509.0	6557.3	6531.7	6497.7	6429.6	6284.9	6174.2	6106.1	6097.6	6148.7	6245.2
15°	6299.1	6440.9	6511.9	6477.8	6423.9	6279.2	6123.1	6043.7	6043.7	6148.7	6273.5
17.5°	6140.2	6250.8	6423.9	6452.3	6389.9	6267.9	6074.9	5981.3	6006.8	6160.0	6293.4
20°	6009.6	6077.7	6245.2	6404.0	6344.5	6242.3	6004.0	5907.5	5958.6	6143.0	6321.8
22.5°	5805.4	5941.5	6043.7	6279.2	6299.1	6194.1	5933.0	5816.7	5918.9	6143.0	6307.6
25°	5606.7	5771.3	5879.1	6109.0	6231.0	6134.5	5867.8	5720.2	5876.3	6134.5	6296.2
27.5°	5467.7	5544.3	5740.1	5904.7	6128.8	6055.0	5779.8	5615.2	5822.4	6089.1	6231.0
30°	5320.2	5371.2	5564.2	5720.2	5992.6	5964.2	5689.0	5498.9	5754.3	6046.5	6060.7
32.5°	5158.4	5215.2	5314.5	5541.5	5802.5	5879.1	5586.9	5382.6	5680.5	5981.3	5862.1
35°	4993.9	5036.4	5115.9	5359.9	5581.2	5751.4	5462.0	5249.2	5629.4	5882.0	5672.0
37.5°	4829.3	4874.7	4942.8	5147.1	5348.5	5632.3	5354.2	5115.9	5535.8	5706.0	5473.4
40°	4673.2	4698.8	4769.7	4897.4	5155.6	5510.3	5232.2	4976.8	5439.3	5481.9	5203.8
42.5°	4386.6	4514.3	4579.6	4681.7	4937.1	5342.9	5090.3	4829.3	5331.5	5257.7	4934.3
45°	4077.4	4355.4	4383.8	4486.0	4744.2	5164.1	4957.0	4684.6	5229.4	5064.8	4678.9
47.5°	3824.8	4026.3	4190.9	4276.0	4514.3	4954.1	4832.1	4562.6	5076.1	4820.8	4429.2
50°	3600.7	3708.5	4006.4	4068.9	4239.1	4701.6	4684.6	4420.7	4863.3	4514.3	4185.2
52.5°	3382.2	3458.8	3728.4	3861.7	4000.8	4429.2	4508.7	4281.7	4630.7	4207.9	3938.3
55°	3192.1	3217.6	3365.2	3646.1	3770.9	4154.0	4315.7	4119.9	4335.6	3915.6	3700.0
57.5°	2996.3	2973.6	3081.4	3441.8	3532.6	3873.1	4111.4	3955.4	4097.2	3617.7	3453.1
60°	2792.0	2760.8	2806.2	3044.5	3280.1	3595.0	3870.2	3773.8	3807.8	3322.6	3177.9
62.5°	2579.2	2548.0	2533.8	2684.2	3033.2	3308.4	3626.2	3572.3	3453.1	3053.1	2837.4
65°	2357.9	2326.7	2304.0	2363.6	2760.8	2936.7	3353.8	3339.6	3064.4	2769.3	2389.1
67.5°	717.9	2116.7	2068.5	2065.6	2326.7	2599.1	3058.7	3036.0	2672.8	2465.7	2057.1
70°	646.9	1716.6	1824.5	1798.9	1912.4	2255.7	2721.1	2704.1	2292.6	1977.7	1818.8
72.5°	593.0	607.2	1611.7	1583.3	1608.8	1918.1	2369.2	2323.8	1943.6	1560.6	1571.9
75°	507.9	533.4	556.1	1336.4	1302.4	1589.0	1986.2	1915.3	1603.1	1288.2	1313.7
77.5°	414.3	445.5	462.5	973.2	1052.7	1132.1	1586.1	1492.5	1103.8	1030.0	490.9
80°	309.3	334.8	363.2	388.7	800.2	791.6	1177.5	1083.9	768.9	641.3	383.1
82.5°	227.0	235.5	252.5	280.9	317.8	530.6	757.6	666.8	533.4	292.3	263.9
85°	141.9	153.2	161.7	170.2	192.9	317.8	374.5	297.9	224.2	178.8	167.4
87.5°	90.8	90.8	88.0	90.8	93.6	113.5	127.7	122.0	96.5	90.8	90.8
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6168.5	6128.8	6128.8	6117.5	6126.0	6126.0	6123.1	6126.0	6145.8	6157.2	6177.1
5°	6165.7	6154.4	6179.9	6211.1	6248.0	6293.4	6304.7	6344.5	6381.3	6429.6	6480.7
7.5°	6202.6	6242.3	6290.6	6341.6	6415.4	6469.3	6517.5	6565.8	6599.8	6645.2	6673.6
10°	6256.5	6336.0	6418.2	6483.5	6562.9	6608.3	6639.6	6645.2	6597.0	6520.4	6458.0
12.5°	6333.1	6426.7	6503.4	6565.8	6602.7	6585.6	6494.8	6401.2	6347.3	6267.9	6157.2
15°	6398.4	6483.5	6562.9	6537.4	6438.1	6344.5	6273.5	6162.9	6055.0	5981.3	5933.0
17.5°	6426.7	6509.0	6480.7	6347.3	6253.7	6145.8	6001.1	5916.0	5845.1	5788.3	5760.0
20°	6443.8	6429.6	6276.4	6179.9	5998.3	5899.0	5805.4	5725.9	5672.0	5643.6	5637.9
22.5°	6398.4	6225.3	6094.8	5921.7	5788.3	5706.0	5632.3	5567.0	5530.1	5507.4	5493.2
25°	6248.0	6046.5	5853.6	5717.4	5603.9	5533.0	5476.2	5422.3	5376.9	5365.6	5337.2
27.5°	6038.0	5873.5	5618.1	5513.1	5413.8	5379.7	5317.3	5263.4	5223.7	5189.6	5098.8
30°	5864.9	5603.9	5419.5	5323.0	5263.4	5223.7	5152.7	5096.0	5027.9	4903.1	4852.0
32.5°	5652.1	5393.9	5218.0	5164.1	5090.3	5056.3	4976.8	4852.0	4747.0	4695.9	4693.1
35°	5376.9	5164.1	5036.4	4988.2	4928.6	4871.8	4707.3	4593.8	4542.7	4548.4	4590.9
37.5°	5147.1	4957.0	4874.7	4806.6	4738.5	4593.8	4454.7	4400.8	4415.0	4443.4	4463.3
40°	4914.4	4769.7	4676.1	4622.2	4468.9	4327.1	4253.3	4273.1	4298.7	4318.5	4344.1
42.5°	4687.4	4585.3	4491.6	4386.6	4176.7	4100.1	4117.1	4142.6	4165.3	4193.7	4219.2
45°	4471.8	4381.0	4273.1	4034.8	3929.8	3949.7	3975.2	3995.1	4029.1	4049.0	4074.5
47.5°	4267.5	4171.0	3980.9	3770.9	3759.6	3799.3	3822.0	3847.5	3873.1	3822.0	2108.2
50°	4037.6	3938.3	3648.9	3569.5	3595.0	3631.9	3660.3	3685.8	3282.9	1305.2	1004.4
52.5°	3810.6	3558.1	3373.7	3396.4	3421.9	3464.5	3484.3	2587.7	1030.0	981.7	984.6
55°	3558.1	3234.7	3180.7	3209.1	3231.8	3274.4	2170.6	950.5	944.9	942.0	964.7
57.5°	3160.9	2965.1	2987.8	3016.2	3038.9	2145.1	925.0	919.3	922.2	925.0	927.8
60°	2806.2	2763.6	2789.2	2814.7	1991.9	893.8	876.8	879.6	890.9	882.4	859.7
62.5°	2525.3	2559.3	2584.9	2264.3	848.4	839.9	848.4	839.9	820.0	805.8	777.5
65°	2309.7	2343.7	2363.6	797.3	794.5	805.8	797.3	768.9	737.7	698.0	689.5
67.5°	2082.7	2116.7	757.6	737.7	749.1	734.9	700.8	666.8	644.1	610.0	595.9
70°	1847.2	791.6	686.7	683.8	664.0	641.3	604.4	570.3	541.9	527.8	513.6
72.5°	1333.6	627.1	618.6	595.9	561.8	530.6	499.4	479.5	465.3	456.8	448.3
75°	556.1	544.8	519.2	479.5	445.5	431.3	408.6	394.4	388.7	371.7	366.0
77.5°	465.3	442.6	405.8	377.4	357.5	349.0	332.0	315.0	306.4	303.6	292.3
80°	357.5	326.3	309.3	295.1	289.4	269.6	249.7	241.2	235.5	232.7	224.2
82.5°	244.0	232.7	221.3	201.5	201.5	192.9	184.4	178.8	173.1	173.1	167.4
85°	158.9	150.4	147.5	139.0	139.0	133.4	130.5	127.7	124.8	122.0	119.2
87.5°	90.8	90.8	93.6	90.8	90.8	88.0	85.1	82.3	79.4	79.4	73.8
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6202.6	6231.0	6236.6	6333.1	6387.0	6384.2	6367.2	6418.2	6387.0	6370.0	6387.0
5°	6531.7	6565.8	6594.2	6699.1	6736.0	6753.1	6750.2	6778.6	6755.9	6736.0	6736.0
7.5°	6693.5	6704.8	6716.2	6690.6	6673.6	6645.2	6602.7	6540.2	6509.0	6475.0	6432.4
10°	6426.7	6389.9	6404.0	6353.0	6310.4	6279.2	6239.5	6188.4	6145.8	6114.6	6066.4
12.5°	6100.4	6097.6	6103.3	6111.8	6069.2	6043.7	6012.5	5975.6	5944.4	5910.3	5870.6
15°	5901.8	5904.7	5927.4	5918.9	5904.7	5890.5	5856.4	5845.1	5816.7	5779.8	5757.1
17.5°	5760.0	5774.1	5796.8	5785.5	5762.8	5748.6	5723.1	5697.5	5672.0	5643.6	5609.6
20°	5635.1	5649.3	5663.5	5649.3	5606.7	5586.9	5552.8	5473.4	5416.6	5359.9	5308.8
22.5°	5498.9	5507.4	5496.1	5450.7	5342.9	5291.8	5252.1	5229.4	5181.1	5149.9	5118.7
25°	5328.7	5280.4	5206.7	5155.6	5113.0	5090.3	5073.3	5070.5	5064.8	5059.1	5044.9
27.5°	5050.6	5033.6	4993.9	4974.0	4976.8	4985.3	4988.2	4996.7	4988.2	4976.8	4965.5
30°	4843.5	4852.0	4854.8	4860.5	4874.7	4883.2	4886.0	4897.4	4891.7	4883.2	4877.5
32.5°	4712.9	4732.8	4744.2	4761.2	4769.7	4783.9	4783.9	4800.9	4783.9	4781.0	4775.4
35°	4605.1	4622.2	4627.8	4653.4	4661.9	4676.1	4676.1	4690.2	4676.1	4531.4	3578.0
37.5°	4497.3	4514.3	4525.7	4548.4	4551.2	4559.7	4207.9	3078.6	1986.2	1537.9	1174.7
40°	4369.6	4389.5	4400.8	4409.3	3098.5	1966.3	1353.4	1100.9	1100.9	1109.4	1117.9
42.5°	4233.4	4247.6	2959.4	1722.3	1072.5	1069.7	1078.2	1086.7	1095.2	1106.6	1117.9
45°	3328.3	1679.8	1066.9	1041.3	1049.8	1061.2	1072.5	1083.9	1098.1	1109.4	1115.1
47.5°	1092.4	1024.3	1038.5	1027.1	1041.3	1055.5	1066.9	1078.2	1081.1	1083.9	1081.1
50°	1010.1	1010.1	1018.6	1018.6	1030.0	1035.7	1035.7	1035.7	1024.3	1021.5	1013.0
52.5°	976.1	998.8	987.4	993.1	987.4	978.9	970.4	961.9	944.9	939.2	927.8
55°	959.0	967.6	939.2	930.7	919.3	896.6	885.3	873.9	859.7	854.1	839.9
57.5°	919.3	899.5	868.2	854.1	834.2	811.5	800.2	791.6	777.5	771.8	763.3
60°	845.6	805.8	786.0	768.9	746.2	726.4	717.9	712.2	700.8	698.0	689.5
62.5°	754.8	720.7	703.7	681.0	664.0	652.6	644.1	641.3	629.9	629.9	624.2
65°	655.4	638.4	624.2	601.5	593.0	581.7	578.8	576.0	570.3	567.5	561.8
67.5°	576.0	564.6	544.8	533.4	527.8	519.2	513.6	507.9	496.5	490.9	482.4
70°	505.1	496.5	476.7	468.2	456.8	442.6	434.1	428.4	419.9	414.3	405.8
72.5°	437.0	411.4	397.2	388.7	380.2	366.0	363.2	357.5	349.0	346.2	337.7
75°	351.8	332.0	323.5	317.8	309.3	300.8	300.8	300.8	292.3	289.4	286.6
77.5°	280.9	269.6	263.9	258.2	255.4	249.7	241.2	238.3	229.8	229.8	227.0
80°	215.6	210.0	204.3	201.5	198.6	192.9	187.3	184.4	175.9	175.9	173.1
82.5°	158.9	156.1	153.2	150.4	147.5	144.7	136.2	133.4	127.7	127.7	124.8
85°	113.5	110.7	105.0	102.1	102.1	99.3	90.8	88.0	82.3	82.3	82.3
87.5°	70.9	68.1	65.3	62.4	59.6	56.7	51.1	48.2	48.2	42.6	39.7
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6353.0	6401.2	6395.5	6429.6	6438.1	6455.1	6460.8	6463.6	6421.1	6455.1	6458.0
5°	6727.5	6736.0	6741.7	6755.9	6770.1	6772.9	6758.7	6741.7	6747.4	6736.0	6707.7
7.5°	6426.7	6384.2	6375.7	6364.3	6358.6	6353.0	6327.4	6350.1	6324.6	6313.3	6273.5
10°	6057.9	6018.2	6015.3	6015.3	6023.8	6021.0	6015.3	6004.0	6026.7	6012.5	6004.0
12.5°	5864.9	5850.8	5859.3	5853.6	5876.3	5882.0	5876.3	5876.3	5870.6	5859.3	5864.9
15°	5748.6	5737.3	5745.8	5737.3	5754.3	5757.1	5742.9	5751.4	5737.3	5723.1	5717.4
17.5°	5595.4	5569.8	5550.0	5521.6	5524.4	5518.8	5501.8	5501.8	5487.6	5450.7	5453.5
20°	5300.3	5274.8	5263.4	5263.4	5277.6	5283.3	5280.4	5286.1	5271.9	5266.2	5243.5
22.5°	5115.9	5113.0	5118.7	5132.9	5155.6	5186.8	5189.6	5189.6	5189.6	5186.8	5158.4
25°	5050.6	5050.6	5056.3	5076.1	5093.2	5115.9	5121.5	5127.2	5121.5	5121.5	5096.0
27.5°	4976.8	4971.2	4982.5	5002.4	5022.2	5039.3	5053.4	5056.3	5047.8	5047.8	5056.3
30°	4886.0	4883.2	4897.4	4917.2	4934.3	4951.3	4965.5	4976.8	4965.5	4965.5	4957.0
32.5°	4792.4	4792.4	4798.1	4678.9	4338.4	3907.1	3915.6	3665.9	3492.9	3274.4	3563.8
35°	2990.6	2176.3	1869.9	1583.3	1381.8	1251.3	1248.5	1205.9	1186.0	1171.9	1169.0
37.5°	1129.3	1135.0	1146.3	1152.0	1160.5	1166.2	1169.0	1169.0	1169.0	1169.0	1166.2
40°	1126.5	1137.8	1146.3	1154.8	1163.3	1169.0	1169.0	1171.9	1174.7	1174.7	1174.7
42.5°	1129.3	1140.6	1152.0	1160.5	1166.2	1169.0	1171.9	1174.7	1174.7	1174.7	1174.7
45°	1126.5	1132.1	1132.1	1135.0	1135.0	1135.0	1137.8	1137.8	1135.0	1132.1	1137.8
47.5°	1083.9	1083.9	1075.4	1072.5	1069.7	1064.0	1066.9	1064.0	1061.2	1058.4	1064.0
50°	1010.1	998.8	993.1	987.4	984.6	978.9	981.7	978.9	976.1	970.4	978.9
52.5°	922.2	919.3	908.0	902.3	899.5	902.3	896.6	893.8	890.9	888.1	890.9
55°	837.0	825.7	822.9	817.2	814.3	817.2	814.3	811.5	808.7	805.8	808.7
57.5°	760.4	751.9	749.1	743.4	743.4	743.4	743.4	740.6	737.7	734.9	737.7
60°	686.7	681.0	678.1	678.1	675.3	675.3	675.3	672.5	669.6	669.6	672.5
62.5°	624.2	624.2	615.7	612.9	612.9	615.7	612.9	610.0	607.2	604.4	610.0
65°	559.0	547.6	544.8	539.1	533.4	536.3	533.4	530.6	527.8	524.9	530.6
67.5°	479.5	476.7	465.3	459.7	456.8	459.7	456.8	454.0	451.1	448.3	454.0
70°	402.9	402.9	391.6	388.7	385.9	385.9	383.1	383.1	380.2	377.4	383.1
72.5°	334.8	334.8	332.0	326.3	323.5	320.6	317.8	315.0	315.0	317.8	317.8
75°	278.1	272.4	261.0	263.9	261.0	258.2	258.2	255.4	252.5	258.2	255.4
77.5°	218.5	215.6	207.1	210.0	207.1	204.3	204.3	201.5	198.6	201.5	201.5
80°	164.6	164.6	161.7	158.9	158.9	156.1	153.2	153.2	150.4	153.2	153.2
82.5°	119.2	119.2	116.3	113.5	110.7	110.7	107.8	107.8	107.8	107.8	107.8
85°	76.6	73.8	73.8	68.1	68.1	68.1	65.3	65.3	65.3	65.3	65.3
87.5°	36.9	36.9	34.0	34.0	31.2	28.4	28.4	25.5	25.5	28.4	28.4
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6406.9	6443.8	6412.6	6426.7	6429.6	6477.8	6475.0	6486.3	6466.5	6443.8	6412.6
5°	6733.2	6716.2	6693.5	6747.4	6719.0	6753.1	6764.4	6787.1	6787.1	6784.3	6758.7
7.5°	6316.1	6279.2	6307.6	6327.4	6336.0	6313.3	6358.6	6409.7	6452.3	6477.8	6480.7
10°	5989.8	6001.1	5998.3	6006.8	6026.7	6023.8	6052.2	6080.6	6091.9	6109.0	6114.6
12.5°	5836.6	5833.7	5839.4	5859.3	5870.6	5867.8	5896.2	5913.2	5918.9	5921.7	5918.9
15°	5714.6	5694.7	5708.9	5711.7	5720.2	5720.2	5754.3	5779.8	5791.2	5796.8	5791.2
17.5°	5484.7	5436.5	5481.9	5481.9	5513.1	5507.4	5561.3	5603.9	5626.6	5643.6	5643.6
20°	5257.7	5235.0	5252.1	5246.4	5269.1	5266.2	5300.3	5328.7	5348.5	5362.7	5379.7
22.5°	5166.9	5172.6	5147.1	5149.9	5149.9	5147.1	5164.1	5178.3	5184.0	5192.5	5186.8
25°	5107.3	5113.0	5104.5	5090.3	5084.6	5090.3	5098.8	5115.9	5118.7	5113.0	5093.2
27.5°	5047.8	5030.7	5044.9	5019.4	5013.7	5025.1	5036.4	5039.3	5042.1	5042.1	5025.1
30°	4957.0	4942.8	4957.0	4945.6	4934.3	4945.6	4954.1	4954.1	4959.8	4962.6	4942.8
32.5°	3464.5	3492.9	3952.5	4230.6	4622.2	4820.8	4857.7	4857.7	4863.3	4863.3	4846.3
35°	1180.4	1183.2	1279.7	1387.5	1617.3	1901.1	2272.8	2465.7	3118.3	3898.6	4653.4
37.5°	1166.2	1163.3	1160.5	1157.7	1154.8	1152.0	1146.3	1143.5	1160.5	1376.1	1867.0
40°	1171.9	1169.0	1163.3	1160.5	1157.7	1152.0	1149.2	1143.5	1137.8	1132.1	1126.5
42.5°	1171.9	1169.0	1166.2	1163.3	1160.5	1157.7	1152.0	1146.3	1140.6	1132.1	1123.6
45°	1132.1	1132.1	1135.0	1135.0	1137.8	1137.8	1137.8	1135.0	1135.0	1132.1	1120.8
47.5°	1058.4	1058.4	1066.9	1066.9	1072.5	1078.2	1078.2	1083.9	1092.4	1098.1	1100.9
50°	973.2	973.2	981.7	984.6	990.3	998.8	1007.3	1010.1	1018.6	1030.0	1041.3
52.5°	888.1	888.1	896.6	896.6	902.3	910.8	919.3	922.2	933.5	944.9	959.0
55°	808.7	808.7	814.3	817.2	820.0	825.7	834.2	834.2	845.6	854.1	868.2
57.5°	737.7	743.4	743.4	743.4	746.2	751.9	757.6	757.6	766.1	774.6	786.0
60°	669.6	675.3	675.3	675.3	678.1	681.0	686.7	686.7	692.3	698.0	709.4
62.5°	607.2	612.9	612.9	615.7	615.7	618.6	624.2	621.4	627.1	629.9	638.4
65°	527.8	533.4	536.3	539.1	541.9	547.6	556.1	553.3	561.8	567.5	576.0
67.5°	451.1	456.8	456.8	459.7	462.5	468.2	473.8	473.8	482.4	488.0	499.4
70°	380.2	385.9	385.9	388.7	391.6	397.2	402.9	400.1	408.6	414.3	422.8
72.5°	315.0	320.6	320.6	323.5	323.5	329.1	334.8	340.5	340.5	346.2	351.8
75°	255.4	258.2	261.0	261.0	263.9	266.7	272.4	278.1	280.9	283.7	289.4
77.5°	201.5	204.3	207.1	207.1	210.0	212.8	215.6	227.0	232.7	235.5	235.5
80°	153.2	156.1	156.1	156.1	158.9	161.7	167.4	167.4	178.8	178.8	181.6
82.5°	107.8	110.7	110.7	110.7	113.5	119.2	122.0	124.8	130.5	133.4	133.4
85°	65.3	68.1	68.1	68.1	70.9	73.8	79.4	82.3	85.1	85.1	88.0
87.5°	25.5	28.4	31.2	31.2	34.0	36.9	39.7	42.6	45.4	45.4	48.2
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6378.5	6398.4	6378.5	6389.9	6404.0	6378.5	6318.9	6296.2	6287.7	6253.7	6231.0
5°	6733.2	6733.2	6724.7	6747.4	6744.5	6704.8	6642.4	6614.0	6585.6	6548.8	6520.4
7.5°	6480.7	6503.4	6517.5	6605.5	6662.3	6667.9	6707.7	6716.2	6727.5	6716.2	6699.1
10°	6117.5	6109.0	6148.7	6231.0	6279.2	6304.7	6381.3	6418.2	6449.4	6511.9	6577.1
12.5°	5913.2	5924.5	5941.5	6001.1	6046.5	6035.2	6066.4	6091.9	6128.8	6191.2	6284.9
15°	5777.0	5788.3	5805.4	5850.8	5879.1	5864.9	5882.0	5899.0	5924.5	5955.7	6012.5
17.5°	5629.4	5649.3	5669.2	5717.4	5742.9	5740.1	5754.3	5760.0	5768.5	5788.3	5828.1
20°	5399.6	5462.0	5501.8	5567.0	5603.9	5598.2	5623.8	5632.3	5643.6	5663.5	5680.5
22.5°	5189.6	5206.7	5226.5	5297.5	5359.9	5436.5	5453.5	5476.2	5504.6	5524.4	5541.5
25°	5070.5	5059.1	5067.6	5115.9	5149.9	5155.6	5181.1	5254.9	5331.5	5365.6	5405.3
27.5°	4999.5	4988.2	4985.3	5008.0	5013.7	4999.5	4993.9	5016.6	5073.3	5130.0	5249.2
30°	4922.9	4908.7	4897.4	4917.2	4925.8	4905.9	4869.0	4849.1	4883.2	4897.4	4945.6
32.5°	4832.1	4817.9	4812.3	4823.6	4829.3	4812.3	4772.5	4749.8	4744.2	4732.8	4744.2
35°	4730.0	4715.8	4707.3	4710.1	4721.5	4707.3	4673.2	4644.9	4630.7	4599.5	4576.8
37.5°	2437.3	3453.1	4483.1	4590.9	4602.3	4599.5	4565.4	4534.2	4520.0	4483.1	4471.8
40°	1115.1	1245.6	1869.9	2443.0	3524.1	4477.4	4446.2	4415.0	4389.5	4378.1	4335.6
42.5°	1112.3	1115.1	1117.9	1103.8	1367.6	2329.5	3438.9	4293.0	4276.0	4247.6	4216.4
45°	1112.3	1098.1	1109.4	1092.4	1098.1	1095.2	1364.8	2201.8	3918.5	4094.4	4080.2
47.5°	1100.9	1092.4	1103.8	1089.6	1072.5	1081.1	1069.7	1083.9	1691.1	2868.6	3929.8
50°	1049.8	1055.5	1075.4	1072.5	1058.4	1069.7	1049.8	1066.9	1052.7	1154.8	2224.5
52.5°	973.2	984.6	1004.4	1021.5	1027.1	1041.3	1035.7	1041.3	1030.0	1032.8	1035.7
55°	882.4	896.6	913.6	939.2	950.5	973.2	990.3	998.8	1013.0	1010.1	987.4
57.5°	797.3	811.5	825.7	851.2	876.8	888.1	919.3	936.3	973.2	964.7	959.0
60°	717.9	729.2	743.4	749.1	780.3	800.2	828.5	845.6	893.8	905.1	922.2
62.5°	646.9	652.6	664.0	672.5	692.3	712.2	726.4	754.8	780.3	817.2	842.7
65°	581.7	587.3	595.9	601.5	604.4	632.7	641.3	672.5	681.0	720.7	743.4
67.5°	507.9	519.2	530.6	536.3	541.9	559.0	564.6	578.8	598.7	615.7	644.1
70°	431.3	439.8	451.1	459.7	471.0	482.4	499.4	507.9	522.1	533.4	556.1
72.5°	360.4	368.9	374.5	383.1	391.6	400.1	414.3	434.1	445.5	465.3	471.0
75°	292.3	300.8	306.4	312.1	320.6	326.3	332.0	351.8	363.2	380.2	397.2
77.5°	241.2	241.2	246.9	263.9	261.0	261.0	266.7	278.1	286.6	297.9	315.0
80°	187.3	190.1	192.9	207.1	210.0	212.8	210.0	218.5	227.0	229.8	241.2
82.5°	139.0	141.9	141.9	150.4	158.9	158.9	158.9	161.7	170.2	173.1	178.8
85°	93.6	96.5	99.3	102.1	107.8	110.7	113.5	113.5	119.2	122.0	124.8
87.5°	51.1	56.7	59.6	62.4	65.3	68.1	70.9	73.8	76.6	79.4	82.3
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-LD5-170HL-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°	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2	6191.2
2.5°	6222.5	6208.3	6199.8	6177.1	6171.4	6134.5	6140.2	6134.5	6134.5	6143.0	6171.4
5°	6489.2	6421.1	6404.0	6355.8	6316.1	6248.0	6205.4	6182.7	6148.7	6134.5	6154.4
7.5°	6670.8	6619.7	6577.1	6534.6	6477.8	6398.4	6338.8	6270.7	6213.9	6160.0	6145.8
10°	6639.6	6696.3	6696.3	6670.8	6616.9	6537.4	6466.5	6381.3	6282.0	6196.9	6145.8
12.5°	6375.7	6475.0	6554.4	6614.0	6667.9	6614.0	6543.1	6475.0	6364.3	6239.5	6145.8
15°	6086.3	6188.4	6287.7	6412.6	6543.1	6597.0	6594.2	6514.7	6415.4	6284.9	6154.4
17.5°	5882.0	5952.9	6006.8	6143.0	6301.9	6440.9	6534.6	6540.2	6443.8	6327.4	6157.2
20°	5728.7	5779.8	5825.2	5901.8	6040.9	6211.1	6384.2	6480.7	6463.6	6336.0	6165.7
22.5°	5589.7	5626.6	5663.5	5720.2	5830.9	5941.5	6143.0	6341.6	6426.7	6321.8	6157.2
25°	5450.7	5490.4	5518.8	5558.5	5646.5	5737.3	5879.1	6126.0	6316.1	6310.4	6140.2
27.5°	5286.1	5340.0	5374.1	5428.0	5487.6	5555.7	5652.1	5884.8	6157.2	6253.7	6094.8
30°	5087.5	5166.9	5218.0	5277.6	5328.7	5388.3	5464.9	5606.7	5944.4	6143.0	6046.5
32.5°	4800.9	4942.8	5056.3	5113.0	5169.8	5220.8	5288.9	5408.1	5683.3	5992.6	5992.6
35°	4596.6	4661.9	4764.0	4928.6	4999.5	5050.6	5113.0	5206.7	5382.6	5813.9	5904.7
37.5°	4437.7	4463.3	4514.3	4676.1	4809.4	4891.7	4954.1	5013.7	5186.8	5569.8	5791.2
40°	4318.5	4310.0	4304.4	4381.0	4571.1	4701.6	4772.5	4832.1	4965.5	5277.6	5640.8
42.5°	4179.5	4171.0	4142.6	4162.5	4256.1	4474.6	4582.4	4647.7	4758.3	4971.2	5476.2
45°	4034.8	4020.6	4009.3	3989.4	4023.5	4145.5	4366.8	4463.3	4525.7	4715.8	5269.1
47.5°	3887.3	3867.4	3853.2	3836.2	3816.3	3873.1	4083.0	4256.1	4363.9	4483.1	5019.4
50°	3677.3	3702.8	3685.8	3665.9	3648.9	3637.6	3725.5	4009.3	4142.6	4239.1	4715.8
52.5°	1733.7	3370.9	3512.7	3492.9	3470.2	3450.3	3470.2	3685.8	3927.0	4003.6	4349.8
55°	987.4	1501.0	3124.0	3302.8	3282.9	3254.5	3237.5	3311.3	3671.6	3773.8	4014.9
57.5°	950.5	953.4	1379.0	2976.4	3087.1	3061.6	3041.7	3058.7	3365.2	3538.3	3722.7
60°	919.3	919.3	919.3	1316.6	2845.9	2854.4	2828.9	2800.5	2933.9	3274.4	3427.6
62.5°	851.2	868.2	876.8	876.8	1299.5	2636.0	2610.4	2601.9	2607.6	2956.6	3132.5
65°	763.3	803.0	820.0	831.4	831.4	1364.8	2386.3	2372.1	2352.2	2485.6	2834.6
67.5°	666.8	706.5	743.4	766.1	768.9	794.5	1424.4	2136.6	2108.2	2111.0	2516.8
70°	567.5	601.5	641.3	675.3	706.5	720.7	743.4	1773.4	1867.0	1827.3	2156.4
72.5°	490.9	505.1	533.4	567.5	604.4	638.4	658.3	706.5	1620.2	1577.6	1640.0
75°	408.6	419.9	439.8	462.5	490.9	530.6	564.6	598.7	859.7	1322.2	1313.7
77.5°	317.8	337.7	360.4	374.5	388.7	417.1	462.5	496.5	530.6	893.8	1052.7
80°	244.0	258.2	269.6	283.7	300.8	320.6	337.7	377.4	417.1	448.3	805.8
82.5°	181.6	190.1	198.6	204.3	210.0	221.3	252.5	266.7	292.3	320.6	380.2
85°	127.7	133.4	139.0	141.9	144.7	147.5	158.9	161.7	187.3	192.9	229.8
87.5°	82.3	85.1	90.8	93.6	93.6	96.5	99.3	99.3	99.3	93.6	113.5
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-LD5-170HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	6191.2	6191.2
2.5°	6194.1	6239.5
5°	6185.6	6245.2
7.5°	6162.9	6219.6
10°	6128.8	6196.9
12.5°	6091.9	6157.2
15°	6060.7	6109.0
17.5°	6026.7	6055.0
20°	5981.3	6004.0
22.5°	5935.9	5924.5
25°	5884.8	5859.3
27.5°	5819.5	5771.3
30°	5760.0	5674.8
32.5°	5703.2	5564.2
35°	5626.6	5450.7
37.5°	5547.1	5334.3
40°	5453.5	5201.0
42.5°	5354.2	5067.6
45°	5229.4	4939.9
47.5°	5118.7	4786.7
50°	4965.5	4622.2
52.5°	4778.2	4468.9
55°	4556.9	4281.7
57.5°	4318.5	4085.9
60°	4063.2	3861.7
62.5°	3753.9	3629.1
65°	3390.7	3362.3
67.5°	2916.9	3067.2
70°	2391.9	2729.6
72.5°	2000.4	2372.1
75°	1640.0	1972.0
77.5°	1299.5	1546.4
80°	811.5	1132.1
82.5°	544.8	743.4
85°	329.1	354.7
87.5°	127.7	130.5
90°	0.0	0.0

(END OF REPORT)