

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-L935-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-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

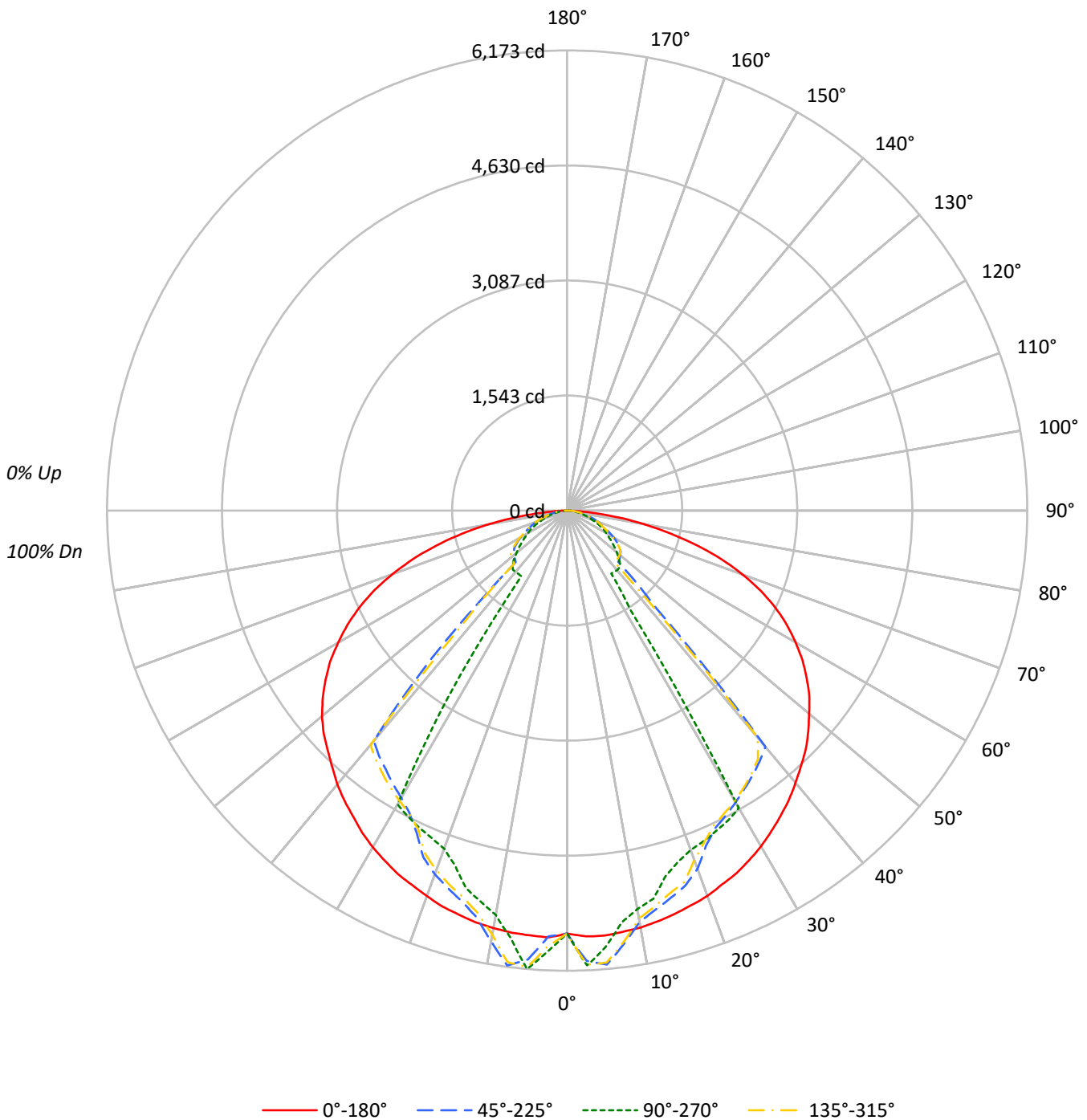
Lumens per Lamp: N/A
Luminaire Lumens: 11362.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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			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°	22925	22925	22925	22925
5°	23182	23098	23171	24242
10°	23236	20883	23268	21204
15°	23321	19322	23375	19934
20°	23525	18326	23525	18257
25°	23766	17976	23801	17808
30°	24047	17659	24107	17449
35°	24372	4022	24423	4195
40°	24815	4182	24964	4318
45°	25471	4159	25559	4310
50°	26140	3761	26493	3862
55°	27038	3339	27253	3387
60°	27845	2967	27907	3005
65°	28505	2590	28433	2548
70°	28335	2087	28247	2011
75°	26658	1606	26850	1538
80°	22176	1141	23065	1044
85°	12784	683	13500	524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.2	4.9
10°-20°	1534.9	13.5
20°-30°	2273.5	20.0
30°-40°	2290.7	20.2
40°-50°	1789.4	15.7
50°-60°	1382.2	12.2
60°-70°	928.0	8.2
70°-80°	473.4	4.2
80°-90°	131.7	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°	4366.6	38.4
0°-40°	6657.3	58.6
0°-60°	9828.9	86.5
0°-90°	11362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11362.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5674	5674	5674	5674	5674	
5°	5723	5882	5721	6173	5723	544
15°	5598	5084	5612	5245	5598	1583
25°	5370	4738	5378	4694	5370	2477
35°	4995	1030	5006	1074	4995	3130
45°	4527	1001	4543	1038	4527	3491
55°	3924	728	3955	738	3924	3504
65°	3081	489	3074	481	3081	3030
75°	1807	247	1820	237	1807	1890
85°	325	78	343	60	325	447
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°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5718.1	5738.9	5754.5	5764.9	5770.1	5770.1	5772.7	5775.3	5809.1	5824.7	5835.1
5°	5723.3	5744.1	5775.3	5816.9	5853.3	5884.5	5910.5	5946.9	5983.3	6022.3	6035.3
7.5°	5699.9	5725.9	5788.3	5863.7	5933.9	5983.3	6017.1	6040.5	6058.7	6061.3	6074.3
10°	5679.1	5725.9	5811.7	5910.5	5998.9	6058.7	6058.7	6045.7	6063.9	5993.7	5923.5
12.5°	5642.7	5694.7	5811.7	5941.7	6024.9	6048.3	6037.9	5985.9	5879.3	5793.5	5754.5
15°	5598.5	5668.7	5814.3	5959.9	6030.1	6037.9	5939.1	5806.5	5725.9	5673.9	5608.9
17.5°	5549.1	5642.7	5816.9	5962.5	5988.5	5952.1	5764.9	5681.7	5598.5	5476.3	5387.9
20°	5502.3	5593.3	5796.1	5926.1	5941.7	5777.9	5632.3	5543.9	5403.5	5296.8	5257.8
22.5°	5429.5	5536.1	5777.9	5876.7	5816.9	5627.1	5486.7	5346.3	5218.8	5187.6	5140.8
25°	5369.7	5481.5	5736.3	5816.9	5658.3	5489.3	5325.4	5161.6	5101.8	5057.6	5016.0
27.5°	5289.0	5426.9	5681.7	5707.7	5489.3	5341.0	5101.8	5029.0	4974.4	4925.0	4906.8
30°	5200.6	5369.7	5606.3	5556.9	5348.9	5130.4	4953.6	4886.0	4847.0	4795.0	4774.2
32.5°	5099.2	5283.8	5523.1	5382.7	5198.0	4925.0	4810.6	4758.6	4706.6	4667.6	4537.6
35°	4995.2	5208.4	5424.3	5216.2	5016.0	4769.0	4667.6	4620.8	4571.4	4428.3	4293.1
37.5°	4888.6	5125.2	5304.6	5036.8	4774.2	4607.8	4522.0	4469.9	4358.1	4176.1	4108.5
40°	4766.4	5023.8	5151.2	4852.2	4563.6	4443.9	4363.3	4311.3	4059.1	3978.5	3957.7
42.5°	4644.2	4925.0	4964.0	4672.8	4389.3	4269.7	4202.1	4030.5	3858.9	3817.3	3825.1
45°	4527.2	4818.4	4758.6	4417.9	4207.3	4108.5	3994.1	3757.5	3666.4	3687.2	3692.4
47.5°	4386.7	4691.0	4542.8	4163.1	4020.1	3921.3	3666.4	3523.4	3510.4	3539.0	3554.6
50°	4235.9	4548.0	4313.9	3931.7	3817.3	3700.3	3411.6	3338.8	3354.4	3383.0	3401.2
52.5°	4095.5	4386.7	4077.3	3715.9	3617.0	3349.2	3154.2	3167.2	3193.2	3227.0	3237.4
55°	3923.9	4191.7	3825.1	3497.4	3403.8	3052.8	2964.4	2995.6	3021.6	3050.2	3071.0
57.5°	3744.5	3968.1	3526.0	3253.0	3102.2	2790.1	2797.9	2818.7	2836.9	2870.7	1185.7
60°	3539.0	3713.3	3198.4	3026.8	2727.7	2582.1	2589.9	2626.3	2644.5	1477.0	816.5
62.5°	3325.8	3416.8	2902.0	2769.3	2384.5	2374.1	2410.5	2426.1	1651.2	780.1	764.5
65°	3081.4	3063.2	2610.7	2400.1	2150.5	2160.9	2199.9	2121.9	730.7	730.7	725.5
67.5°	2810.9	2701.7	2327.3	1986.6	1924.2	1947.6	1989.2	694.3	676.1	681.3	663.1
70°	2501.5	2348.1	2033.4	1682.4	1703.2	1726.6	670.9	629.3	621.5	608.5	572.1
72.5°	2173.9	1963.2	1664.2	1461.4	1474.4	925.7	587.7	566.9	540.9	514.9	475.9
75°	1807.2	1534.2	1222.1	1222.1	1240.4	527.9	512.3	478.5	449.9	416.1	392.6
77.5°	1417.2	1180.5	949.1	985.5	481.1	442.1	413.5	377.0	353.6	332.8	319.8
80°	1037.5	824.3	715.1	639.7	374.4	335.4	306.8	286.0	275.6	262.6	247.0
82.5°	681.3	496.7	496.7	301.6	262.6	231.4	223.6	208.0	197.6	189.8	182.0
85°	325.0	288.6	218.4	184.6	163.8	148.2	143.0	135.2	135.2	132.6	130.0
87.5°	119.6	130.0	96.2	93.6	88.4	85.8	88.4	88.4	91.0	88.4	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5861.1	5881.9	5897.5	5923.5	5957.3	5985.9	6011.9	6048.3	6105.5	6121.1	6134.1
5°	6035.3	6043.1	6061.3	6082.1	6087.3	6100.3	6097.7	6113.3	6121.1	6139.3	6100.3
7.5°	6045.7	6004.1	5954.7	5910.5	5879.3	5850.7	5832.5	5861.1	5876.7	5889.7	5850.7
10°	5827.3	5777.9	5749.3	5723.3	5692.1	5647.9	5588.1	5601.1	5595.9	5595.9	5582.9
12.5°	5689.5	5619.3	5546.5	5481.5	5452.9	5450.3	5452.9	5481.5	5481.5	5478.9	5463.3
15°	5473.7	5406.1	5369.7	5354.1	5354.1	5346.3	5346.3	5377.5	5369.7	5369.7	5361.9
17.5°	5330.6	5283.8	5257.8	5239.6	5231.8	5244.8	5260.4	5273.4	5276.0	5265.6	5224.0
20°	5213.6	5169.4	5138.2	5143.4	5140.8	5148.6	5156.4	5112.2	5057.6	4984.8	4951.0
22.5°	5091.4	5057.6	5034.2	5034.2	5003.0	4953.6	4880.8	4865.2	4857.4	4823.6	4795.0
25°	4974.4	4935.4	4901.6	4797.6	4732.6	4740.4	4727.4	4701.4	4698.8	4696.2	4706.6
27.5°	4857.4	4756.0	4626.0	4610.4	4584.4	4581.8	4597.4	4610.4	4610.4	4620.8	4633.8
30°	4615.6	4498.5	4475.1	4446.5	4456.9	4493.3	4501.1	4519.3	4524.6	4542.8	4553.2
32.5°	4394.5	4342.5	4321.7	4334.7	4368.5	4399.7	4417.9	4425.7	4438.7	4454.3	4467.3
35°	4215.1	4199.5	4217.7	4246.3	4280.1	4306.1	4321.7	4337.3	4350.3	4363.3	4373.7
37.5°	4082.5	4092.9	4118.9	4155.3	4189.1	4209.9	4222.9	4241.1	4259.3	4274.9	4212.5
40°	3957.7	3983.7	4012.3	4051.3	4079.9	4100.7	4113.7	4137.1	3981.1	1802.0	988.1
42.5°	3848.5	3877.1	3897.9	3929.1	3960.3	3975.9	3861.5	1724.0	975.1	969.9	982.9
45°	3715.9	3739.3	3773.1	3796.5	3825.1	2511.9	959.5	969.9	954.3	964.7	969.9
47.5°	3580.6	3617.0	3635.2	3468.8	1032.3	954.3	943.9	954.3	943.9	956.9	949.1
50°	3427.2	3471.4	2470.3	933.5	925.7	920.5	930.9	925.7	933.5	943.9	923.1
52.5°	3271.2	2025.6	904.9	899.7	904.9	899.7	917.9	904.9	907.5	897.1	871.1
55°	1107.7	876.3	868.5	865.9	881.5	881.5	881.5	860.7	847.7	821.7	803.5
57.5°	847.7	847.7	845.1	847.7	842.5	837.3	813.9	795.7	777.5	741.1	730.7
60°	803.5	803.5	803.5	803.5	780.1	769.7	733.3	717.7	686.5	668.3	657.9
62.5°	767.1	761.9	738.5	730.7	704.7	676.1	655.3	639.7	608.5	598.1	590.3
65°	715.1	696.9	668.3	637.1	624.1	592.9	582.5	559.1	543.5	535.7	530.5
67.5°	629.3	603.3	579.9	559.1	535.7	525.3	512.3	494.1	483.7	478.5	473.3
70°	538.3	520.1	496.7	483.7	468.1	460.3	442.1	436.9	429.1	421.3	413.5
72.5°	449.9	439.5	429.1	410.8	405.6	400.4	382.2	371.8	361.4	351.0	345.8
75°	377.0	369.2	364.0	348.4	340.6	325.0	312.0	304.2	296.4	288.6	283.4
77.5°	309.4	304.2	288.6	278.2	273.0	260.0	254.8	257.4	252.2	241.8	236.6
80°	241.8	236.6	223.6	223.6	218.4	213.2	208.0	202.8	197.6	189.8	184.6
82.5°	184.6	179.4	174.2	169.0	163.8	161.2	158.6	153.4	148.2	143.0	140.4
85°	130.0	127.4	124.8	122.2	119.6	117.0	114.4	109.2	104.0	101.4	98.8
87.5°	88.4	85.8	83.2	80.6	78.0	75.4	72.8	70.2	65.0	62.4	59.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	6134.1	6147.1	6134.1	6105.5	6087.3	6079.5	6095.1	6095.1	6105.5	6118.5	6121.1
5°	6037.9	6006.7	5970.3	5933.9	5915.7	5905.3	5876.7	5881.9	5889.7	5894.9	5900.1
7.5°	5798.7	5757.1	5707.7	5660.9	5642.7	5627.1	5593.3	5593.3	5593.3	5595.9	5611.5
10°	5554.3	5536.1	5515.3	5484.1	5460.7	5452.9	5424.3	5432.1	5426.9	5434.7	5452.9
12.5°	5439.9	5419.1	5400.9	5369.7	5343.7	5333.2	5320.2	5328.0	5325.4	5338.4	5354.1
15°	5335.8	5325.4	5304.6	5281.2	5257.8	5237.0	5190.2	5174.6	5164.2	5151.2	5169.4
17.5°	5164.2	5091.4	5042.0	5005.6	4979.6	4961.4	4948.4	4948.4	4956.2	4964.0	4979.6
20°	4930.2	4909.4	4886.0	4847.0	4821.0	4810.6	4802.8	4802.8	4815.8	4826.2	4854.8
22.5°	4769.0	4766.4	4758.6	4740.4	4727.4	4727.4	4730.0	4735.2	4753.4	4769.0	4797.6
25°	4693.6	4704.0	4698.8	4688.4	4680.6	4683.2	4678.0	4683.2	4701.4	4717.0	4740.4
27.5°	4633.8	4649.4	4644.2	4628.6	4615.6	4620.8	4628.6	4623.4	4639.0	4657.2	4675.4
30°	4553.2	4555.8	4566.2	4548.0	4542.8	4550.6	4553.2	4558.4	4574.0	4587.0	4602.6
32.5°	4462.1	4482.9	4480.3	4462.1	4462.1	4469.9	4472.5	4298.3	3973.3	3422.0	3271.2
35°	4373.7	4397.1	4358.1	3674.2	2543.1	1357.4	1047.9	1011.5	1019.3	1024.5	1029.7
37.5°	3234.8	1534.2	977.7	985.5	993.3	1001.1	1008.9	1016.7	1024.5	1032.3	1034.9
40°	972.5	969.9	977.7	988.1	995.9	1001.1	1011.5	1019.3	1027.1	1034.9	1037.5
42.5°	962.1	967.3	975.1	985.5	995.9	1006.3	1014.1	1024.5	1029.7	1034.9	1037.5
45°	956.9	967.3	977.7	985.5	993.3	998.5	1003.7	1006.3	1003.7	1003.7	1008.9
47.5°	949.1	959.5	962.1	959.5	962.1	959.5	959.5	959.5	951.7	949.1	949.1
50°	920.5	920.5	915.3	904.9	902.3	899.7	894.5	891.9	881.5	878.9	878.9
52.5°	860.7	858.1	850.3	837.3	832.1	826.9	824.3	821.7	811.3	806.1	808.7
55°	790.5	785.3	777.5	761.9	759.3	754.1	751.5	748.9	738.5	743.7	735.9
57.5°	725.5	715.1	704.7	702.1	691.7	689.1	686.5	683.9	676.1	678.7	673.5
60°	647.5	644.9	639.7	629.3	629.3	626.7	626.7	621.5	616.3	613.7	613.7
62.5°	590.3	582.5	577.3	577.3	569.5	569.5	569.5	564.3	559.1	561.7	559.1
65°	527.9	525.3	522.7	517.5	517.5	514.9	514.9	509.7	501.9	504.5	499.3
67.5°	475.9	470.7	465.5	462.9	452.5	447.3	444.7	442.1	431.7	434.3	429.1
70°	410.8	403.0	397.8	392.6	384.8	379.6	379.6	374.4	366.6	369.2	364.0
72.5°	343.2	338.0	332.8	330.2	322.4	319.8	317.2	314.6	306.8	309.4	306.8
75°	286.0	286.0	283.4	280.8	273.0	265.2	260.0	257.4	252.2	254.8	249.6
77.5°	236.6	231.4	226.2	226.2	218.4	213.2	208.0	208.0	208.0	205.4	202.8
80°	184.6	179.4	179.4	176.8	171.6	166.4	163.8	163.8	161.2	161.2	158.6
82.5°	140.4	135.2	132.6	132.6	127.4	124.8	122.2	119.6	119.6	119.6	117.0
85°	98.8	93.6	91.0	91.0	85.8	83.2	83.2	80.6	80.6	78.0	78.0
87.5°	59.8	57.2	54.6	54.6	49.4	46.8	46.8	46.8	44.2	44.2	41.6
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-LD5-170HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	6121.1	6121.1	6102.9	6108.1	6100.3	6110.7	6097.7	6097.7	6113.3	6113.3	6123.7
5°	5902.7	5889.7	5887.1	5881.9	5855.9	5866.3	5853.3	5840.3	5858.5	5858.5	5881.9
7.5°	5603.7	5580.3	5590.7	5575.1	5559.5	5536.1	5543.9	5533.5	5546.5	5564.7	5588.1
10°	5450.3	5429.5	5442.5	5426.9	5434.7	5400.9	5403.5	5406.1	5419.1	5424.3	5445.1
12.5°	5351.5	5346.3	5341.0	5335.8	5341.0	5322.8	5312.4	5315.0	5320.2	5322.8	5338.4
15°	5143.4	5109.6	5120.0	5083.6	5086.2	5088.8	5068.0	5088.8	5086.2	5120.0	5151.2
17.5°	4974.4	4974.4	4956.2	4940.6	4930.2	4927.6	4912.0	4922.4	4912.0	4932.8	4940.6
20°	4857.4	4854.8	4852.2	4844.4	4818.4	4821.0	4828.8	4805.4	4802.8	4800.2	4815.8
22.5°	4802.8	4805.4	4795.0	4795.0	4771.6	4776.8	4779.4	4753.4	4756.0	4748.2	4756.0
25°	4745.6	4750.8	4737.8	4737.8	4732.6	4730.0	4717.0	4722.2	4706.6	4693.6	4706.6
27.5°	4678.0	4688.4	4678.0	4683.2	4672.8	4667.6	4659.8	4654.6	4639.0	4636.4	4644.2
30°	4615.6	4620.8	4618.2	4605.2	4602.6	4587.0	4594.8	4579.2	4563.6	4566.2	4571.4
32.5°	2366.3	2259.7	1742.2	1573.2	1557.6	1614.8	1913.8	2329.9	3019.0	3687.2	4168.3
35°	1032.3	1032.3	1032.3	1029.7	1029.7	1027.1	1024.5	1021.9	1019.3	1016.7	1014.1
37.5°	1037.5	1037.5	1037.5	1037.5	1034.9	1032.3	1032.3	1027.1	1024.5	1021.9	1019.3
40°	1040.1	1042.7	1042.7	1042.7	1040.1	1040.1	1037.5	1032.3	1029.7	1024.5	1019.3
42.5°	1037.5	1040.1	1040.1	1037.5	1037.5	1034.9	1034.9	1032.3	1029.7	1027.1	1024.5
45°	1003.7	1006.3	1001.1	1001.1	998.5	998.5	998.5	998.5	998.5	1001.1	1001.1
47.5°	943.9	943.9	941.3	938.7	938.7	936.1	938.7	936.1	941.3	943.9	949.1
50°	873.7	873.7	868.5	865.9	865.9	865.9	865.9	868.5	871.1	876.3	881.5
52.5°	800.9	800.9	798.3	795.7	793.1	793.1	800.9	798.3	800.9	803.5	811.3
55°	730.7	733.3	728.1	728.1	725.5	725.5	725.5	728.1	730.7	733.3	741.1
57.5°	670.9	670.9	665.7	665.7	665.7	663.1	670.9	665.7	668.3	670.9	676.1
60°	611.1	608.5	608.5	605.9	605.9	605.9	611.1	608.5	608.5	611.1	616.3
62.5°	556.5	556.5	553.9	553.9	551.3	551.3	556.5	553.9	553.9	556.5	559.1
65°	494.1	494.1	491.5	488.9	496.7	488.9	496.7	491.5	496.7	499.3	504.5
67.5°	423.9	423.9	423.9	421.3	421.3	426.5	429.1	423.9	426.5	431.7	434.3
70°	361.4	361.4	358.8	358.8	358.8	364.0	366.6	361.4	364.0	366.6	371.8
72.5°	306.8	301.6	301.6	299.0	304.2	304.2	306.8	304.2	306.8	306.8	312.0
75°	252.2	247.0	247.0	247.0	252.2	249.6	252.2	249.6	252.2	252.2	254.8
77.5°	202.8	200.2	197.6	197.6	202.8	202.8	202.8	200.2	202.8	205.4	208.0
80°	158.6	156.0	153.4	153.4	158.6	158.6	158.6	161.2	158.6	161.2	163.8
82.5°	117.0	114.4	111.8	117.0	117.0	117.0	117.0	119.6	117.0	119.6	122.2
85°	78.0	75.4	72.8	78.0	78.0	78.0	78.0	80.6	78.0	80.6	83.2
87.5°	41.6	39.0	39.0	41.6	41.6	41.6	44.2	44.2	44.2	46.8	46.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	6139.3	6147.1	6144.5	6128.9	6113.3	6095.1	6082.1	6084.7	6110.7	6118.5	6095.1
5°	5881.9	5931.3	5931.3	5965.1	5946.9	5931.3	5941.7	5998.9	6027.5	6071.7	6087.3
7.5°	5616.7	5640.1	5637.5	5671.3	5666.1	5666.1	5673.9	5749.3	5785.7	5822.1	5832.5
10°	5468.5	5491.9	5489.3	5491.9	5484.1	5465.9	5465.9	5499.7	5530.9	5549.1	5554.3
12.5°	5361.9	5374.9	5372.3	5372.3	5367.1	5351.5	5348.9	5377.5	5411.3	5434.7	5437.3
15°	5203.2	5239.6	5247.4	5281.2	5273.4	5252.6	5257.8	5281.2	5302.0	5322.8	5315.0
17.5°	4966.6	4984.8	4987.4	5000.4	4995.2	4995.2	5026.4	5112.2	5169.4	5218.8	5224.0
20°	4831.4	4844.4	4839.2	4867.8	4854.8	4852.2	4860.0	4896.4	4922.4	4945.8	4987.4
22.5°	4766.4	4776.8	4769.0	4771.6	4748.2	4727.4	4722.2	4750.8	4779.4	4810.6	4810.6
25°	4711.8	4719.6	4717.0	4711.8	4693.6	4665.0	4659.8	4665.0	4675.4	4678.0	4659.8
27.5°	4646.8	4652.0	4652.0	4654.6	4631.2	4605.2	4600.0	4594.8	4605.2	4602.6	4574.0
30°	4579.2	4571.4	4574.0	4576.6	4555.8	4532.4	4522.0	4519.3	4529.8	4527.2	4498.5
32.5°	4417.9	4477.7	4482.9	4488.1	4469.9	4449.1	4438.7	4430.9	4436.1	4433.5	4407.5
35°	1011.5	1029.7	1261.2	2855.1	3877.1	4293.1	4337.3	4326.9	4329.5	4329.5	4308.7
37.5°	1014.1	1011.5	1008.9	1001.1	993.3	988.1	1708.4	3643.0	4220.3	4222.9	4204.7
40°	1014.1	1011.5	1008.9	1003.7	993.3	985.5	972.5	962.1	985.5	2168.7	3968.1
42.5°	1019.3	1014.1	1008.9	1003.7	993.3	982.9	972.5	959.5	967.3	962.1	949.1
45°	1003.7	1001.1	1001.1	998.5	993.3	982.9	969.9	954.3	946.5	954.3	941.3
47.5°	954.3	956.9	964.7	967.3	967.3	969.9	962.1	951.7	938.7	946.5	930.9
50°	886.7	891.9	894.5	907.5	912.7	923.1	925.7	925.7	923.1	933.5	923.1
52.5°	813.9	819.1	832.1	837.3	842.5	858.1	863.3	871.1	876.3	891.9	902.3
55°	743.7	746.3	751.5	761.9	769.7	782.7	790.5	798.3	811.3	819.1	850.3
57.5°	678.7	681.3	691.7	694.3	699.5	709.9	717.7	728.1	738.5	743.7	780.1
60°	616.3	618.9	626.7	629.3	631.9	642.3	650.1	657.9	665.7	670.9	696.9
62.5°	561.7	561.7	569.5	569.5	572.1	579.9	585.1	590.3	598.1	600.7	613.7
65°	507.1	509.7	514.9	514.9	517.5	522.7	525.3	527.9	535.7	535.7	546.1
67.5°	439.5	442.1	449.9	455.1	457.7	468.1	470.7	473.3	478.5	481.1	486.3
70°	374.4	377.0	384.8	387.4	390.0	397.8	403.0	410.8	418.7	426.5	431.7
72.5°	314.6	317.2	325.0	325.0	332.8	335.4	340.6	343.2	351.0	356.2	364.0
75°	257.4	260.0	267.8	267.8	275.6	278.2	280.8	283.4	288.6	293.8	299.0
77.5°	210.6	210.6	221.0	226.2	231.4	231.4	234.0	234.0	234.0	236.6	241.8
80°	166.4	166.4	174.2	179.4	184.6	184.6	187.2	189.8	192.4	192.4	195.0
82.5°	124.8	124.8	132.6	135.2	140.4	140.4	140.4	143.0	145.6	143.0	148.2
85°	85.8	85.8	91.0	93.6	98.8	98.8	98.8	101.4	104.0	101.4	104.0
87.5°	49.4	52.0	54.6	57.2	59.8	62.4	62.4	62.4	65.0	65.0	67.6
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-LD5-170HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	6069.1	6037.9	6035.3	5998.9	5988.5	5991.1	5962.5	5952.1	5905.3	5894.9	5845.5
5°	6092.5	6108.1	6100.3	6097.7	6105.5	6100.3	6079.5	6069.1	6061.3	6040.5	5998.9
7.5°	5835.1	5845.5	5853.3	5887.1	5915.7	5965.1	6017.1	6050.9	6076.9	6082.1	6048.3
10°	5572.5	5621.9	5655.7	5707.7	5749.3	5777.9	5809.1	5837.7	5913.1	5988.5	6032.7
12.5°	5437.3	5450.3	5447.7	5476.3	5504.9	5580.3	5653.1	5694.7	5751.9	5785.7	5866.3
15°	5322.8	5325.4	5333.2	5354.1	5369.7	5395.7	5429.5	5491.9	5606.3	5658.3	5702.5
17.5°	5218.8	5218.8	5224.0	5242.2	5263.0	5286.4	5307.2	5333.2	5390.5	5476.3	5585.5
20°	5052.4	5125.2	5133.0	5130.4	5140.8	5185.0	5190.2	5237.0	5265.6	5299.4	5406.1
22.5°	4805.4	4849.6	4912.0	5008.2	5044.6	5065.4	5081.0	5101.8	5146.0	5185.0	5229.2
25°	4670.2	4698.8	4717.0	4745.6	4821.0	4943.2	4966.6	4990.0	5018.6	5047.2	5101.8
27.5°	4550.6	4548.0	4561.0	4587.0	4607.8	4672.8	4787.2	4878.2	4883.4	4925.0	4971.8
30°	4464.7	4449.1	4430.9	4425.7	4454.3	4488.1	4522.0	4665.0	4763.8	4784.6	4834.0
32.5°	4384.1	4358.1	4332.1	4311.3	4293.1	4321.7	4342.5	4404.9	4532.4	4652.0	4678.0
35°	4285.3	4259.3	4228.1	4204.7	4176.1	4173.5	4170.9	4230.7	4272.3	4415.3	4540.2
37.5°	4183.9	4155.3	4129.3	4103.3	4074.7	4053.9	4040.9	4056.5	4095.5	4157.9	4365.9
40°	4077.3	4043.5	4017.5	3996.7	3957.7	3942.1	3916.1	3905.7	3908.3	3962.9	4072.1
42.5°	2436.5	3884.9	3897.9	3874.5	3840.7	3819.9	3791.3	3778.3	3752.3	3778.3	3840.7
45°	938.7	949.1	2842.1	3754.9	3713.3	3687.2	3661.2	3648.2	3619.6	3598.8	3656.0
47.5°	920.5	930.9	910.1	1289.8	3544.2	3552.0	3520.8	3507.8	3479.2	3463.6	3448.0
50°	907.5	915.3	899.7	904.9	886.7	3247.8	3377.8	3362.2	3331.0	3312.8	3281.6
52.5°	894.5	894.5	884.1	871.1	865.9	868.5	2732.9	3214.0	3177.6	3159.4	3117.8
55°	852.9	858.1	868.5	847.7	842.5	839.9	832.1	2602.9	3008.6	2987.8	2951.4
57.5°	790.5	800.9	829.5	824.3	824.3	803.5	798.3	798.3	2415.7	2813.5	2777.1
60°	717.7	728.1	759.3	769.7	777.5	772.3	767.1	764.5	754.1	2545.7	2592.5
62.5°	642.3	652.7	663.1	696.9	707.3	720.3	735.9	728.1	717.7	717.7	2397.5
65°	561.7	577.3	582.5	613.7	626.7	650.1	663.1	681.3	676.1	673.5	686.5
67.5°	491.5	509.7	512.3	525.3	548.7	559.1	574.7	608.5	624.1	629.3	634.5
70°	431.7	442.1	449.9	455.1	470.7	473.3	501.9	525.3	548.7	574.7	582.5
72.5°	371.8	379.6	395.2	390.0	395.2	405.6	421.3	436.9	460.3	496.7	520.1
75°	304.2	309.4	319.8	325.0	335.4	343.2	353.6	366.6	387.4	405.6	436.9
77.5°	244.4	247.0	254.8	257.4	267.8	275.6	293.8	301.6	314.6	327.6	345.8
80°	197.6	197.6	200.2	200.2	208.0	215.8	228.8	236.6	252.2	262.6	262.6
82.5°	150.8	150.8	158.6	158.6	163.8	163.8	171.6	171.6	179.4	184.6	189.8
85°	106.6	109.2	114.4	111.8	117.0	114.4	119.6	124.8	127.4	124.8	122.2
87.5°	70.2	70.2	75.4	72.8	75.4	75.4	80.6	80.6	83.2	83.2	80.6
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-LD5-170HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5827.3	5788.3	5764.9	5736.3	5728.5	5720.7	5731.1	5731.1	5715.5	5702.5	5679.1
5°	5962.5	5920.9	5876.7	5829.9	5785.7	5738.9	5720.7	5718.1	5689.5	5673.9	5666.1
7.5°	6032.7	6011.9	5962.5	5897.5	5829.9	5746.7	5710.3	5689.5	5660.9	5655.7	5655.7
10°	6040.5	6017.1	5991.1	5944.3	5866.3	5757.1	5686.9	5645.3	5619.3	5637.5	5671.3
12.5°	5965.1	6009.3	5985.9	5954.7	5892.3	5759.7	5658.3	5595.9	5588.1	5634.9	5723.3
15°	5772.7	5902.7	5967.7	5936.5	5887.1	5754.5	5611.5	5538.7	5538.7	5634.9	5749.3
17.5°	5627.1	5728.5	5887.1	5913.1	5855.9	5744.1	5567.3	5481.5	5504.9	5645.3	5767.5
20°	5507.5	5569.9	5723.3	5868.9	5814.3	5720.7	5502.3	5413.9	5460.7	5629.7	5793.5
22.5°	5320.2	5445.1	5538.7	5754.5	5772.7	5676.5	5437.3	5330.6	5424.3	5629.7	5780.5
25°	5138.2	5289.0	5387.9	5598.5	5710.3	5621.9	5377.5	5242.2	5385.3	5621.9	5770.1
27.5°	5010.8	5081.0	5260.4	5411.3	5616.7	5549.1	5296.8	5146.0	5335.8	5580.3	5710.3
30°	4875.6	4922.4	5099.2	5242.2	5491.9	5465.9	5213.6	5039.4	5273.4	5541.3	5554.3
32.5°	4727.4	4779.4	4870.4	5078.4	5317.6	5387.9	5120.0	4932.8	5205.8	5481.5	5372.3
35°	4576.6	4615.6	4688.4	4912.0	5114.8	5270.8	5005.6	4810.6	5159.0	5390.5	5198.0
37.5°	4425.7	4467.3	4529.8	4717.0	4901.6	5161.6	4906.8	4688.4	5073.2	5229.2	5016.0
40°	4282.7	4306.1	4371.1	4488.1	4724.8	5049.8	4795.0	4561.0	4984.8	5023.8	4769.0
42.5°	4020.1	4137.1	4196.9	4290.5	4524.6	4896.4	4665.0	4425.7	4886.0	4818.4	4522.0
45°	3736.7	3991.5	4017.5	4111.1	4347.7	4732.6	4542.8	4293.1	4792.4	4641.6	4287.9
47.5°	3505.2	3689.8	3840.7	3918.7	4137.1	4540.2	4428.3	4181.3	4652.0	4417.9	4059.1
50°	3299.8	3398.6	3671.6	3728.9	3884.9	4308.7	4293.1	4051.3	4456.9	4137.1	3835.5
52.5°	3099.6	3169.8	3416.8	3539.0	3666.4	4059.1	4131.9	3923.9	4243.7	3856.3	3609.2
55°	2925.4	2948.8	3084.0	3341.4	3455.8	3806.9	3955.1	3775.7	3973.3	3588.4	3390.8
57.5°	2745.9	2725.1	2823.9	3154.2	3237.4	3549.4	3767.9	3624.8	3754.9	3315.4	3164.6
60°	2558.7	2530.1	2571.7	2790.1	3006.0	3294.6	3546.8	3458.4	3489.6	3045.0	2912.4
62.5°	2363.7	2335.1	2322.1	2459.9	2779.7	3032.0	3323.2	3273.8	3164.6	2797.9	2600.3
65°	2160.9	2132.3	2111.5	2166.1	2530.1	2691.3	3073.6	3060.6	2808.3	2537.9	2189.5
67.5°	657.9	1939.8	1895.6	1893.0	2132.3	2381.9	2803.1	2782.3	2449.5	2259.7	1885.2
70°	592.9	1573.2	1672.0	1648.6	1752.6	2067.3	2493.7	2478.1	2101.1	1812.4	1666.8
72.5°	543.5	556.5	1477.0	1451.0	1474.4	1757.8	2171.3	2129.7	1781.2	1430.2	1440.6
75°	465.5	488.9	509.7	1224.7	1193.5	1456.2	1820.2	1755.2	1469.2	1180.5	1203.9
77.5°	379.6	408.2	423.9	891.9	964.7	1037.5	1453.6	1367.8	1011.5	943.9	449.9
80°	283.4	306.8	332.8	356.2	733.3	725.5	1079.1	993.3	704.7	587.7	351.0
82.5°	208.0	215.8	231.4	257.4	291.2	486.3	694.3	611.1	488.9	267.8	241.8
85°	130.0	140.4	148.2	156.0	176.8	291.2	343.2	273.0	205.4	163.8	153.4
87.5°	83.2	83.2	80.6	83.2	85.8	104.0	117.0	111.8	88.4	83.2	83.2
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5653.1	5616.7	5616.7	5606.3	5614.1	5614.1	5611.5	5614.1	5632.3	5642.7	5660.9
5°	5650.5	5640.1	5663.5	5692.1	5725.9	5767.5	5777.9	5814.3	5848.1	5892.3	5939.1
7.5°	5684.3	5720.7	5764.9	5811.7	5879.3	5928.7	5972.9	6017.1	6048.3	6089.9	6115.9
10°	5733.7	5806.5	5881.9	5941.7	6014.5	6056.1	6084.7	6089.9	6045.7	5975.5	5918.3
12.5°	5803.9	5889.7	5959.9	6017.1	6050.9	6035.3	5952.1	5866.3	5816.9	5744.1	5642.7
15°	5863.7	5941.7	6014.5	5991.1	5900.1	5814.3	5749.3	5647.9	5549.1	5481.5	5437.3
17.5°	5889.7	5965.1	5939.1	5816.9	5731.1	5632.3	5499.7	5421.7	5356.7	5304.6	5278.6
20°	5905.3	5892.3	5751.9	5663.5	5497.1	5406.1	5320.2	5247.4	5198.0	5172.0	5166.8
22.5°	5863.7	5705.1	5585.5	5426.9	5304.6	5229.2	5161.6	5101.8	5068.0	5047.2	5034.2
25°	5725.9	5541.3	5364.5	5239.6	5135.6	5070.6	5018.6	4969.2	4927.6	4917.2	4891.2
27.5°	5533.5	5382.7	5148.6	5052.4	4961.4	4930.2	4873.0	4823.6	4787.2	4756.0	4672.8
30°	5374.9	5135.6	4966.6	4878.2	4823.6	4787.2	4722.2	4670.2	4607.8	4493.3	4446.5
32.5°	5179.8	4943.2	4782.0	4732.6	4665.0	4633.8	4561.0	4446.5	4350.3	4303.5	4300.9
35°	4927.6	4732.6	4615.6	4571.4	4516.7	4464.7	4313.9	4209.9	4163.1	4168.3	4207.3
37.5°	4717.0	4542.8	4467.3	4404.9	4342.5	4209.9	4082.5	4033.1	4046.1	4072.1	4090.3
40°	4503.7	4371.1	4285.3	4235.9	4095.5	3965.5	3897.9	3916.1	3939.5	3957.7	3981.1
42.5°	4295.7	4202.1	4116.3	4020.1	3827.7	3757.5	3773.1	3796.5	3817.3	3843.3	3866.7
45°	4098.1	4014.9	3916.1	3697.6	3601.4	3619.6	3643.0	3661.2	3692.4	3710.7	3734.1
47.5°	3910.9	3822.5	3648.2	3455.8	3445.4	3481.8	3502.6	3526.0	3549.4	3502.6	1932.0
50°	3700.3	3609.2	3344.0	3271.2	3294.6	3328.4	3354.4	3377.8	3008.6	1196.1	920.5
52.5°	3492.2	3260.8	3091.8	3112.6	3136.0	3175.0	3193.2	2371.5	943.9	899.7	902.3
55°	3260.8	2964.4	2915.0	2941.0	2961.8	3000.8	1989.2	871.1	865.9	863.3	884.1
57.5°	2896.8	2717.3	2738.1	2764.1	2784.9	1965.8	847.7	842.5	845.1	847.7	850.3
60°	2571.7	2532.7	2556.1	2579.5	1825.4	819.1	803.5	806.1	816.5	808.7	787.9
62.5°	2314.3	2345.5	2368.9	2075.1	777.5	769.7	777.5	769.7	751.5	738.5	712.5
65°	2116.7	2147.9	2166.1	730.7	728.1	738.5	730.7	704.7	676.1	639.7	631.9
67.5°	1908.6	1939.8	694.3	676.1	686.5	673.5	642.3	611.1	590.3	559.1	546.1
70°	1692.8	725.5	629.3	626.7	608.5	587.7	553.9	522.7	496.7	483.7	470.7
72.5°	1222.1	574.7	566.9	546.1	514.9	486.3	457.7	439.5	426.5	418.7	410.8
75°	509.7	499.3	475.9	439.5	408.2	395.2	374.4	361.4	356.2	340.6	335.4
77.5°	426.5	405.6	371.8	345.8	327.6	319.8	304.2	288.6	280.8	278.2	267.8
80°	327.6	299.0	283.4	270.4	265.2	247.0	228.8	221.0	215.8	213.2	205.4
82.5°	223.6	213.2	202.8	184.6	184.6	176.8	169.0	163.8	158.6	158.6	153.4
85°	145.6	137.8	135.2	127.4	127.4	122.2	119.6	117.0	114.4	111.8	109.2
87.5°	83.2	83.2	85.8	83.2	83.2	80.6	78.0	75.4	72.8	72.8	67.6
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-LD5-170HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5684.3	5710.3	5715.5	5803.9	5853.3	5850.7	5835.1	5881.9	5853.3	5837.7	5853.3
5°	5985.9	6017.1	6043.1	6139.3	6173.2	6188.8	6186.2	6212.2	6191.4	6173.2	6173.2
7.5°	6134.1	6144.5	6154.9	6131.5	6115.9	6089.9	6050.9	5993.7	5965.1	5933.9	5894.9
10°	5889.7	5855.9	5868.9	5822.1	5783.1	5754.5	5718.1	5671.3	5632.3	5603.7	5559.5
12.5°	5590.7	5588.1	5593.3	5601.1	5562.1	5538.7	5510.1	5476.3	5447.7	5416.5	5380.1
15°	5408.7	5411.3	5432.1	5424.3	5411.3	5398.3	5367.1	5356.7	5330.6	5296.8	5276.0
17.5°	5278.6	5291.6	5312.4	5302.0	5281.2	5268.2	5244.8	5221.4	5198.0	5172.0	5140.8
20°	5164.2	5177.2	5190.2	5177.2	5138.2	5120.0	5088.8	5016.0	4964.0	4912.0	4865.2
22.5°	5039.4	5047.2	5036.8	4995.2	4896.4	4849.6	4813.2	4792.4	4748.2	4719.6	4691.0
25°	4883.4	4839.2	4771.6	4724.8	4685.8	4665.0	4649.4	4646.8	4641.6	4636.4	4623.4
27.5°	4628.6	4613.0	4576.6	4558.4	4561.0	4568.8	4571.4	4579.2	4571.4	4561.0	4550.6
30°	4438.7	4446.5	4449.1	4454.3	4467.3	4475.1	4477.7	4488.1	4482.9	4475.1	4469.9
32.5°	4319.1	4337.3	4347.7	4363.3	4371.1	4384.1	4384.1	4399.7	4384.1	4381.5	4376.3
35°	4220.3	4235.9	4241.1	4264.5	4272.3	4285.3	4285.3	4298.3	4285.3	4152.7	3279.0
37.5°	4121.5	4137.1	4147.5	4168.3	4170.9	4178.7	3856.3	2821.3	1820.2	1409.4	1076.5
40°	4004.5	4022.7	4033.1	4040.9	2839.5	1802.0	1240.4	1008.9	1008.9	1016.7	1024.5
42.5°	3879.7	3892.7	2712.1	1578.4	982.9	980.3	988.1	995.9	1003.7	1014.1	1024.5
45°	3050.2	1539.4	977.7	954.3	962.1	972.5	982.9	993.3	1006.3	1016.7	1021.9
47.5°	1001.1	938.7	951.7	941.3	954.3	967.3	977.7	988.1	990.7	993.3	990.7
50°	925.7	925.7	933.5	933.5	943.9	949.1	949.1	949.1	938.7	936.1	928.3
52.5°	894.5	915.3	904.9	910.1	904.9	897.1	889.3	881.5	865.9	860.7	850.3
55°	878.9	886.7	860.7	852.9	842.5	821.7	811.3	800.9	787.9	782.7	769.7
57.5°	842.5	824.3	795.7	782.7	764.5	743.7	733.3	725.5	712.5	707.3	699.5
60°	774.9	738.5	720.3	704.7	683.9	665.7	657.9	652.7	642.3	639.7	631.9
62.5°	691.7	660.5	644.9	624.1	608.5	598.1	590.3	587.7	577.3	577.3	572.1
65°	600.7	585.1	572.1	551.3	543.5	533.1	530.5	527.9	522.7	520.1	514.9
67.5°	527.9	517.5	499.3	488.9	483.7	475.9	470.7	465.5	455.1	449.9	442.1
70°	462.9	455.1	436.9	429.1	418.7	405.6	397.8	392.6	384.8	379.6	371.8
72.5°	400.4	377.0	364.0	356.2	348.4	335.4	332.8	327.6	319.8	317.2	309.4
75°	322.4	304.2	296.4	291.2	283.4	275.6	275.6	275.6	267.8	265.2	262.6
77.5°	257.4	247.0	241.8	236.6	234.0	228.8	221.0	218.4	210.6	210.6	208.0
80°	197.6	192.4	187.2	184.6	182.0	176.8	171.6	169.0	161.2	161.2	158.6
82.5°	145.6	143.0	140.4	137.8	135.2	132.6	124.8	122.2	117.0	117.0	114.4
85°	104.0	101.4	96.2	93.6	93.6	91.0	83.2	80.6	75.4	75.4	75.4
87.5°	65.0	62.4	59.8	57.2	54.6	52.0	46.8	44.2	44.2	39.0	36.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5822.1	5866.3	5861.1	5892.3	5900.1	5915.7	5920.9	5923.5	5884.5	5915.7	5918.3
5°	6165.4	6173.2	6178.4	6191.4	6204.4	6207.0	6194.0	6178.4	6183.6	6173.2	6147.1
7.5°	5889.7	5850.7	5842.9	5832.5	5827.3	5822.1	5798.7	5819.5	5796.1	5785.7	5749.3
10°	5551.7	5515.3	5512.7	5512.7	5520.5	5517.9	5512.7	5502.3	5523.1	5510.1	5502.3
12.5°	5374.9	5361.9	5369.7	5364.5	5385.3	5390.5	5385.3	5385.3	5380.1	5369.7	5374.9
15°	5268.2	5257.8	5265.6	5257.8	5273.4	5276.0	5263.0	5270.8	5257.8	5244.8	5239.6
17.5°	5127.8	5104.4	5086.2	5060.2	5062.8	5057.6	5042.0	5042.0	5029.0	4995.2	4997.8
20°	4857.4	4834.0	4823.6	4823.6	4836.6	4841.8	4839.2	4844.4	4831.4	4826.2	4805.4
22.5°	4688.4	4685.8	4691.0	4704.0	4724.8	4753.4	4756.0	4756.0	4756.0	4753.4	4727.4
25°	4628.6	4628.6	4633.8	4652.0	4667.6	4688.4	4693.6	4698.8	4693.6	4693.6	4670.2
27.5°	4561.0	4555.8	4566.2	4584.4	4602.6	4618.2	4631.2	4633.8	4626.0	4626.0	4633.8
30°	4477.7	4475.1	4488.1	4506.3	4522.0	4537.6	4550.6	4561.0	4550.6	4550.6	4542.8
32.5°	4391.9	4391.9	4397.1	4287.9	3975.9	3580.6	3588.4	3359.6	3201.0	3000.8	3266.0
35°	2740.7	1994.4	1713.6	1451.0	1266.4	1146.7	1144.1	1105.1	1086.9	1073.9	1071.3
37.5°	1034.9	1040.1	1050.5	1055.7	1063.5	1068.7	1071.3	1071.3	1071.3	1071.3	1068.7
40°	1032.3	1042.7	1050.5	1058.3	1066.1	1071.3	1071.3	1073.9	1076.5	1076.5	1076.5
42.5°	1034.9	1045.3	1055.7	1063.5	1068.7	1071.3	1073.9	1076.5	1076.5	1076.5	1076.5
45°	1032.3	1037.5	1037.5	1040.1	1040.1	1040.1	1042.7	1042.7	1040.1	1037.5	1042.7
47.5°	993.3	993.3	985.5	982.9	980.3	975.1	977.7	975.1	972.5	969.9	975.1
50°	925.7	915.3	910.1	904.9	902.3	897.1	899.7	897.1	894.5	889.3	897.1
52.5°	845.1	842.5	832.1	826.9	824.3	826.9	821.7	819.1	816.5	813.9	816.5
55°	767.1	756.7	754.1	748.9	746.3	748.9	746.3	743.7	741.1	738.5	741.1
57.5°	696.9	689.1	686.5	681.3	681.3	681.3	681.3	678.7	676.1	673.5	676.1
60°	629.3	624.1	621.5	621.5	618.9	618.9	618.9	616.3	613.7	613.7	616.3
62.5°	572.1	572.1	564.3	561.7	561.7	564.3	561.7	559.1	556.5	553.9	559.1
65°	512.3	501.9	499.3	494.1	488.9	491.5	488.9	486.3	483.7	481.1	486.3
67.5°	439.5	436.9	426.5	421.3	418.7	421.3	418.7	416.1	413.5	410.8	416.1
70°	369.2	369.2	358.8	356.2	353.6	353.6	351.0	351.0	348.4	345.8	351.0
72.5°	306.8	306.8	304.2	299.0	296.4	293.8	291.2	288.6	288.6	291.2	291.2
75°	254.8	249.6	239.2	241.8	239.2	236.6	236.6	234.0	231.4	236.6	234.0
77.5°	200.2	197.6	189.8	192.4	189.8	187.2	187.2	184.6	182.0	184.6	184.6
80°	150.8	150.8	148.2	145.6	145.6	143.0	140.4	140.4	137.8	140.4	140.4
82.5°	109.2	109.2	106.6	104.0	101.4	101.4	98.8	98.8	98.8	98.8	98.8
85°	70.2	67.6	67.6	62.4	62.4	62.4	59.8	59.8	59.8	59.8	59.8
87.5°	33.8	33.8	31.2	31.2	28.6	26.0	26.0	23.4	23.4	26.0	26.0
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5871.5	5905.3	5876.7	5889.7	5892.3	5936.5	5933.9	5944.3	5926.1	5905.3	5876.7
5°	6170.6	6154.9	6134.1	6183.6	6157.5	6188.8	6199.2	6220.0	6220.0	6217.4	6194.0
7.5°	5788.3	5754.5	5780.5	5798.7	5806.5	5785.7	5827.3	5874.1	5913.1	5936.5	5939.1
10°	5489.3	5499.7	5497.1	5504.9	5523.1	5520.5	5546.5	5572.5	5582.9	5598.5	5603.7
12.5°	5348.9	5346.3	5351.5	5369.7	5380.1	5377.5	5403.5	5419.1	5424.3	5426.9	5424.3
15°	5237.0	5218.8	5231.8	5234.4	5242.2	5242.2	5273.4	5296.8	5307.2	5312.4	5307.2
17.5°	5026.4	4982.2	5023.8	5023.8	5052.4	5047.2	5096.6	5135.6	5156.4	5172.0	5172.0
20°	4818.4	4797.6	4813.2	4808.0	4828.8	4826.2	4857.4	4883.4	4901.6	4914.6	4930.2
22.5°	4735.2	4740.4	4717.0	4719.6	4719.6	4717.0	4732.6	4745.6	4750.8	4758.6	4753.4
25°	4680.6	4685.8	4678.0	4665.0	4659.8	4665.0	4672.8	4688.4	4691.0	4685.8	4667.6
27.5°	4626.0	4610.4	4623.4	4600.0	4594.8	4605.2	4615.6	4618.2	4620.8	4620.8	4605.2
30°	4542.8	4529.8	4542.8	4532.4	4522.0	4532.4	4540.2	4540.2	4545.4	4548.0	4529.8
32.5°	3175.0	3201.0	3622.2	3877.1	4235.9	4417.9	4451.7	4451.7	4456.9	4456.9	4441.3
35°	1081.7	1084.3	1172.7	1271.6	1482.2	1742.2	2082.9	2259.7	2857.7	3572.8	4264.5
37.5°	1068.7	1066.1	1063.5	1060.9	1058.3	1055.7	1050.5	1047.9	1063.5	1261.2	1711.0
40°	1073.9	1071.3	1066.1	1063.5	1060.9	1055.7	1053.1	1047.9	1042.7	1037.5	1032.3
42.5°	1073.9	1071.3	1068.7	1066.1	1063.5	1060.9	1055.7	1050.5	1045.3	1037.5	1029.7
45°	1037.5	1037.5	1040.1	1040.1	1042.7	1042.7	1042.7	1040.1	1040.1	1037.5	1027.1
47.5°	969.9	969.9	977.7	977.7	982.9	988.1	988.1	993.3	1001.1	1006.3	1008.9
50°	891.9	891.9	899.7	902.3	907.5	915.3	923.1	925.7	933.5	943.9	954.3
52.5°	813.9	813.9	821.7	821.7	826.9	834.7	842.5	845.1	855.5	865.9	878.9
55°	741.1	741.1	746.3	748.9	751.5	756.7	764.5	764.5	774.9	782.7	795.7
57.5°	676.1	681.3	681.3	681.3	683.9	689.1	694.3	694.3	702.1	709.9	720.3
60°	613.7	618.9	618.9	618.9	621.5	624.1	629.3	629.3	634.5	639.7	650.1
62.5°	556.5	561.7	561.7	564.3	564.3	566.9	572.1	569.5	574.7	577.3	585.1
65°	483.7	488.9	491.5	494.1	496.7	501.9	509.7	507.1	514.9	520.1	527.9
67.5°	413.5	418.7	418.7	421.3	423.9	429.1	434.3	434.3	442.1	447.3	457.7
70°	348.4	353.6	353.6	356.2	358.8	364.0	369.2	366.6	374.4	379.6	387.4
72.5°	288.6	293.8	293.8	296.4	296.4	301.6	306.8	312.0	312.0	317.2	322.4
75°	234.0	236.6	239.2	239.2	241.8	244.4	249.6	254.8	257.4	260.0	265.2
77.5°	184.6	187.2	189.8	189.8	192.4	195.0	197.6	208.0	213.2	215.8	215.8
80°	140.4	143.0	143.0	143.0	145.6	148.2	153.4	153.4	163.8	163.8	166.4
82.5°	98.8	101.4	101.4	101.4	104.0	109.2	111.8	114.4	119.6	122.2	122.2
85°	59.8	62.4	62.4	62.4	65.0	67.6	72.8	75.4	78.0	78.0	80.6
87.5°	23.4	26.0	28.6	28.6	31.2	33.8	36.4	39.0	41.6	41.6	44.2
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5845.5	5863.7	5845.5	5855.9	5868.9	5845.5	5790.9	5770.1	5762.3	5731.1	5710.3
5°	6170.6	6170.6	6162.7	6183.6	6181.0	6144.5	6087.3	6061.3	6035.3	6001.5	5975.5
7.5°	5939.1	5959.9	5972.9	6053.5	6105.5	6110.7	6147.1	6154.9	6165.4	6154.9	6139.3
10°	5606.3	5598.5	5634.9	5710.3	5754.5	5777.9	5848.1	5881.9	5910.5	5967.7	6027.5
12.5°	5419.1	5429.5	5445.1	5499.7	5541.3	5530.9	5559.5	5582.9	5616.7	5673.9	5759.7
15°	5294.2	5304.6	5320.2	5361.9	5387.9	5374.9	5390.5	5406.1	5429.5	5458.1	5510.1
17.5°	5159.0	5177.2	5195.4	5239.6	5263.0	5260.4	5273.4	5278.6	5286.4	5304.6	5341.0
20°	4948.4	5005.6	5042.0	5101.8	5135.6	5130.4	5153.8	5161.6	5172.0	5190.2	5205.8
22.5°	4756.0	4771.6	4789.8	4854.8	4912.0	4982.2	4997.8	5018.6	5044.6	5062.8	5078.4
25°	4646.8	4636.4	4644.2	4688.4	4719.6	4724.8	4748.2	4815.8	4886.0	4917.2	4953.6
27.5°	4581.8	4571.4	4568.8	4589.6	4594.8	4581.8	4576.6	4597.4	4649.4	4701.4	4810.6
30°	4511.5	4498.5	4488.1	4506.3	4514.1	4495.9	4462.1	4443.9	4475.1	4488.1	4532.4
32.5°	4428.3	4415.3	4410.1	4420.5	4425.7	4410.1	4373.7	4352.9	4347.7	4337.3	4347.7
35°	4334.7	4321.7	4313.9	4316.5	4326.9	4313.9	4282.7	4256.7	4243.7	4215.1	4194.3
37.5°	2233.7	3164.6	4108.5	4207.3	4217.7	4215.1	4183.9	4155.3	4142.3	4108.5	4098.1
40°	1021.9	1141.5	1713.6	2238.9	3229.6	4103.3	4074.7	4046.1	4022.7	4012.3	3973.3
42.5°	1019.3	1021.9	1024.5	1011.5	1253.4	2134.9	3151.6	3934.3	3918.7	3892.7	3864.1
45°	1019.3	1006.3	1016.7	1001.1	1006.3	1003.7	1250.8	2017.8	3591.0	3752.3	3739.3
47.5°	1008.9	1001.1	1011.5	998.5	982.9	990.7	980.3	993.3	1549.8	2628.9	3601.4
50°	962.1	967.3	985.5	982.9	969.9	980.3	962.1	977.7	964.7	1058.3	2038.6
52.5°	891.9	902.3	920.5	936.1	941.3	954.3	949.1	954.3	943.9	946.5	949.1
55°	808.7	821.7	837.3	860.7	871.1	891.9	907.5	915.3	928.3	925.7	904.9
57.5°	730.7	743.7	756.7	780.1	803.5	813.9	842.5	858.1	891.9	884.1	878.9
60°	657.9	668.3	681.3	686.5	715.1	733.3	759.3	774.9	819.1	829.5	845.1
62.5°	592.9	598.1	608.5	616.3	634.5	652.7	665.7	691.7	715.1	748.9	772.3
65°	533.1	538.3	546.1	551.3	553.9	579.9	587.7	616.3	624.1	660.5	681.3
67.5°	465.5	475.9	486.3	491.5	496.7	512.3	517.5	530.5	548.7	564.3	590.3
70°	395.2	403.0	413.5	421.3	431.7	442.1	457.7	465.5	478.5	488.9	509.7
72.5°	330.2	338.0	343.2	351.0	358.8	366.6	379.6	397.8	408.2	426.5	431.7
75°	267.8	275.6	280.8	286.0	293.8	299.0	304.2	322.4	332.8	348.4	364.0
77.5°	221.0	221.0	226.2	241.8	239.2	239.2	244.4	254.8	262.6	273.0	288.6
80°	171.6	174.2	176.8	189.8	192.4	195.0	192.4	200.2	208.0	210.6	221.0
82.5°	127.4	130.0	130.0	137.8	145.6	145.6	145.6	148.2	156.0	158.6	163.8
85°	85.8	88.4	91.0	93.6	98.8	101.4	104.0	104.0	109.2	111.8	114.4
87.5°	46.8	52.0	54.6	57.2	59.8	62.4	65.0	67.6	70.2	72.8	75.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9	5673.9
2.5°	5702.5	5689.5	5681.7	5660.9	5655.7	5621.9	5627.1	5621.9	5621.9	5629.7	5655.7
5°	5946.9	5884.5	5868.9	5824.7	5788.3	5725.9	5686.9	5666.1	5634.9	5621.9	5640.1
7.5°	6113.3	6066.5	6027.5	5988.5	5936.5	5863.7	5809.1	5746.7	5694.7	5645.3	5632.3
10°	6084.7	6136.7	6136.7	6113.3	6063.9	5991.1	5926.1	5848.1	5757.1	5679.1	5632.3
12.5°	5842.9	5933.9	6006.7	6061.3	6110.7	6061.3	5996.3	5933.9	5832.5	5718.1	5632.3
15°	5577.7	5671.3	5762.3	5876.7	5996.3	6045.7	6043.1	5970.3	5879.3	5759.7	5640.1
17.5°	5390.5	5455.5	5504.9	5629.7	5775.3	5902.7	5988.5	5993.7	5905.3	5798.7	5642.7
20°	5250.0	5296.8	5338.4	5408.7	5536.1	5692.1	5850.7	5939.1	5923.5	5806.5	5650.5
22.5°	5122.6	5156.4	5190.2	5242.2	5343.7	5445.1	5629.7	5811.7	5889.7	5793.5	5642.7
25°	4995.2	5031.6	5057.6	5094.0	5174.6	5257.8	5387.9	5614.1	5788.3	5783.1	5627.1
27.5°	4844.4	4893.8	4925.0	4974.4	5029.0	5091.4	5179.8	5393.1	5642.7	5731.1	5585.5
30°	4662.4	4735.2	4782.0	4836.6	4883.4	4938.0	5008.2	5138.2	5447.7	5629.7	5541.3
32.5°	4399.7	4529.8	4633.8	4685.8	4737.8	4784.6	4847.0	4956.2	5208.4	5491.9	5491.9
35°	4212.5	4272.3	4365.9	4516.7	4581.8	4628.6	4685.8	4771.6	4932.8	5328.0	5411.3
37.5°	4066.9	4090.3	4137.1	4285.3	4407.5	4482.9	4540.2	4594.8	4753.4	5104.4	5307.2
40°	3957.7	3949.9	3944.7	4014.9	4189.1	4308.7	4373.7	4428.3	4550.6	4836.6	5169.4
42.5°	3830.3	3822.5	3796.5	3814.7	3900.5	4100.7	4199.5	4259.3	4360.7	4555.8	5018.6
45°	3697.6	3684.6	3674.2	3656.0	3687.2	3799.1	4001.9	4090.3	4147.5	4321.7	4828.8
47.5°	3562.4	3544.2	3531.2	3515.6	3497.4	3549.4	3741.9	3900.5	3999.3	4108.5	4600.0
50°	3370.0	3393.4	3377.8	3359.6	3344.0	3333.6	3414.2	3674.2	3796.5	3884.9	4321.7
52.5°	1588.8	3089.2	3219.2	3201.0	3180.2	3162.0	3180.2	3377.8	3598.8	3669.0	3986.3
55°	904.9	1375.6	2862.9	3026.8	3008.6	2982.6	2967.0	3034.6	3364.8	3458.4	3679.4
57.5°	871.1	873.7	1263.8	2727.7	2829.1	2805.7	2787.5	2803.1	3084.0	3242.6	3411.6
60°	842.5	842.5	842.5	1206.5	2608.1	2615.9	2592.5	2566.5	2688.7	3000.8	3141.2
62.5°	780.1	795.7	803.5	803.5	1190.9	2415.7	2392.3	2384.5	2389.7	2709.5	2870.7
65°	699.5	735.9	751.5	761.9	761.9	1250.8	2186.9	2173.9	2155.7	2277.9	2597.7
67.5°	611.1	647.5	681.3	702.1	704.7	728.1	1305.4	1958.0	1932.0	1934.6	2306.5
70°	520.1	551.3	587.7	618.9	647.5	660.5	681.3	1625.2	1711.0	1674.6	1976.2
72.5°	449.9	462.9	488.9	520.1	553.9	585.1	603.3	647.5	1484.8	1445.8	1503.0
75°	374.4	384.8	403.0	423.9	449.9	486.3	517.5	548.7	787.9	1211.7	1203.9
77.5°	291.2	309.4	330.2	343.2	356.2	382.2	423.9	455.1	486.3	819.1	964.7
80°	223.6	236.6	247.0	260.0	275.6	293.8	309.4	345.8	382.2	410.8	738.5
82.5°	166.4	174.2	182.0	187.2	192.4	202.8	231.4	244.4	267.8	293.8	348.4
85°	117.0	122.2	127.4	130.0	132.6	135.2	145.6	148.2	171.6	176.8	210.6
87.5°	75.4	78.0	83.2	85.8	85.8	88.4	91.0	91.0	91.0	85.8	104.0
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	5673.9	5673.9
2.5°	5676.5	5718.1
5°	5668.7	5723.3
7.5°	5647.9	5699.9
10°	5616.7	5679.1
12.5°	5582.9	5642.7
15°	5554.3	5598.5
17.5°	5523.1	5549.1
20°	5481.5	5502.3
22.5°	5439.9	5429.5
25°	5393.1	5369.7
27.5°	5333.2	5289.0
30°	5278.6	5200.6
32.5°	5226.6	5099.2
35°	5156.4	4995.2
37.5°	5083.6	4888.6
40°	4997.8	4766.4
42.5°	4906.8	4644.2
45°	4792.4	4527.2
47.5°	4691.0	4386.7
50°	4550.6	4235.9
52.5°	4378.9	4095.5
55°	4176.1	3923.9
57.5°	3957.7	3744.5
60°	3723.7	3539.0
62.5°	3440.2	3325.8
65°	3107.4	3081.4
67.5°	2673.1	2810.9
70°	2192.1	2501.5
72.5°	1833.2	2173.9
75°	1503.0	1807.2
77.5°	1190.9	1417.2
80°	743.7	1037.5
82.5°	499.3	681.3
85°	301.6	325.0
87.5°	117.0	119.6
90°	0.0	0.0

(END OF REPORT)