

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-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-170HL-RW-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

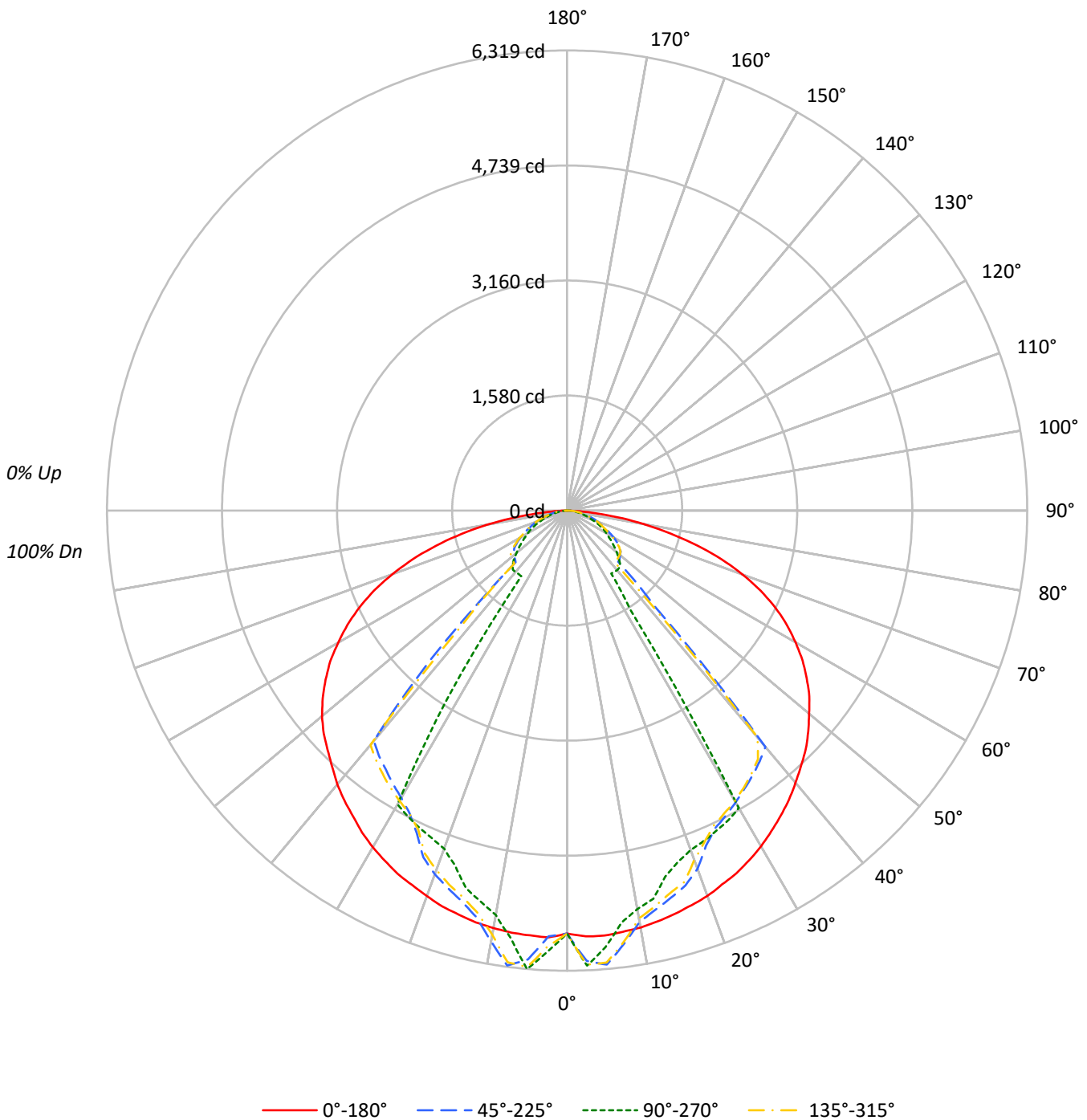
Lumens per Lamp: N/A  
Luminaire Lumens: 11631.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	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°	23468	23468	23468	23468
5°	23731	23645	23720	24816
10°	23786	21378	23819	21705
15°	23873	19779	23928	20406
20°	24082	18760	24082	18689
25°	24329	18401	24364	18229
30°	24617	18077	24678	17862
35°	24950	4117	25001	4294
40°	25402	4281	25555	4420
45°	26074	4258	26164	4413
50°	26759	3850	27120	3954
55°	27678	3418	27898	3467
60°	28504	3037	28567	3076
65°	29179	2651	29105	2608
70°	29006	2136	28915	2059
75°	27290	1644	27486	1575
80°	22702	1168	23612	1069
85°	13087	700	13822	536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.5	4.9
10°-20°	1571.2	13.5
20°-30°	2327.3	20.0
30°-40°	2345.0	20.2
40°-50°	1831.8	15.7
50°-60°	1414.9	12.2
60°-70°	950.0	8.2
70°-80°	484.6	4.2
80°-90°	134.8	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°	4470.0	38.4
0°-40°	6815.0	58.6
0°-60°	10061.6	86.5
0°-90°	11631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5808	5808	5808	5808	5808	
5°	5859	6021	5856	6319	5859	557
15°	5731	5204	5744	5369	5731	1621
25°	5497	4850	5505	4805	5497	2536
35°	5114	1054	5124	1099	5114	3205
45°	4634	1025	4650	1062	4634	3574
55°	4017	745	4049	756	4017	3587
65°	3154	500	3146	492	3154	3102
75°	1850	253	1863	242	1850	1935
85°	333	80	351	61	333	458
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°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5853.5	5874.8	5890.7	5901.4	5906.7	5906.7	5909.4	5912.0	5946.6	5962.6	5973.3
5°	5858.8	5880.1	5912.0	5954.6	5991.9	6023.8	6050.5	6087.7	6125.0	6164.9	6178.2
7.5°	5834.8	5861.5	5925.3	6002.5	6074.4	6125.0	6159.6	6183.5	6202.2	6204.8	6218.2
10°	5813.5	5861.5	5949.3	6050.5	6141.0	6202.2	6202.2	6188.9	6207.5	6135.6	6063.8
12.5°	5776.3	5829.5	5949.3	6082.4	6167.6	6191.5	6180.9	6127.6	6018.5	5930.7	5890.7
15°	5731.0	5802.9	5952.0	6101.0	6172.9	6180.9	6079.7	5944.0	5861.5	5808.2	5741.7
17.5°	5680.5	5776.3	5954.6	6103.7	6130.3	6093.0	5901.4	5816.2	5731.0	5605.9	5515.4
20°	5632.5	5725.7	5933.3	6066.4	6082.4	5914.7	5765.6	5675.1	5531.4	5422.2	5382.3
22.5°	5558.0	5667.1	5914.7	6015.8	5954.6	5760.3	5616.6	5472.8	5342.4	5310.5	5262.5
25°	5496.8	5611.2	5872.1	5954.6	5792.3	5619.2	5451.5	5283.8	5222.6	5177.4	5134.8
27.5°	5414.3	5555.3	5816.2	5842.8	5619.2	5467.5	5222.6	5148.1	5092.2	5041.6	5023.0
30°	5323.8	5496.8	5739.0	5688.4	5475.5	5251.9	5070.9	5001.7	4961.7	4908.5	4887.2
32.5°	5219.9	5408.9	5653.8	5510.1	5321.1	5041.6	4924.5	4871.2	4818.0	4778.1	4645.0
35°	5113.5	5331.7	5552.7	5339.7	5134.8	4881.9	4778.1	4730.2	4679.6	4533.2	4394.8
37.5°	5004.3	5246.6	5430.2	5156.1	4887.2	4716.9	4629.0	4575.8	4461.3	4275.0	4205.8
40°	4879.2	5142.8	5273.2	4967.1	4671.6	4549.2	4466.6	4413.4	4155.2	4072.7	4051.4
42.5°	4754.1	5041.6	5081.5	4783.4	4493.3	4370.8	4301.6	4125.9	3950.2	3907.6	3915.6
45°	4634.3	4932.5	4871.2	4522.5	4306.9	4205.8	4088.6	3846.4	3753.3	3774.5	3779.9
47.5°	4490.6	4802.0	4650.3	4261.7	4115.3	4014.1	3753.3	3606.8	3593.5	3622.8	3638.8
50°	4336.2	4655.6	4416.1	4024.8	3907.6	3787.9	3492.4	3417.9	3433.8	3463.1	3481.7
52.5°	4192.5	4490.6	4173.8	3803.8	3702.7	3428.5	3228.9	3242.2	3268.8	3303.4	3314.0
55°	4016.8	4291.0	3915.6	3580.2	3484.4	3125.0	3034.5	3066.5	3093.1	3122.4	3143.7
57.5°	3833.1	4062.0	3609.5	3330.0	3175.6	2856.2	2864.2	2885.5	2904.1	2938.7	1213.8
60°	3622.8	3801.2	3274.1	3098.4	2792.3	2643.2	2651.2	2688.5	2707.1	1511.9	835.8
62.5°	3404.5	3497.7	2970.7	2834.9	2440.9	2430.3	2467.6	2483.5	1690.3	798.6	782.6
65°	3154.3	3135.7	2672.5	2456.9	2201.4	2212.0	2252.0	2172.1	748.0	748.0	742.7
67.5°	2877.5	2765.7	2382.4	2033.7	1969.8	1993.7	2036.3	710.7	692.1	697.4	678.8
70°	2560.7	2403.7	2081.6	1722.2	1743.5	1767.5	686.8	644.2	636.2	622.9	585.6
72.5°	2225.3	2009.7	1703.6	1496.0	1509.3	947.6	601.6	580.3	553.7	527.1	487.1
75°	1850.0	1570.5	1251.1	1251.1	1269.7	540.4	524.4	489.8	460.5	425.9	401.9
77.5°	1450.7	1208.5	971.6	1008.9	492.4	452.5	423.2	386.0	362.0	340.7	327.4
80°	1062.1	843.8	732.0	654.8	383.3	343.4	314.1	292.8	282.2	268.8	252.9
82.5°	697.4	508.4	508.4	308.8	268.8	236.9	228.9	213.0	202.3	194.3	186.3
85°	332.7	295.5	223.6	189.0	167.7	151.7	146.4	138.4	138.4	135.8	133.1
87.5°	122.4	133.1	98.5	95.8	90.5	87.8	90.5	90.5	93.2	90.5	87.8
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°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5999.9	6021.2	6037.1	6063.8	6098.4	6127.6	6154.3	6191.5	6250.1	6266.1	6279.4
5°	6178.2	6186.2	6204.8	6226.1	6231.5	6244.8	6242.1	6258.1	6266.1	6284.7	6244.8
7.5°	6188.9	6146.3	6095.7	6050.5	6018.5	5989.2	5970.6	5999.9	6015.8	6029.2	5989.2
10°	5965.3	5914.7	5885.4	5858.8	5826.9	5781.6	5720.4	5733.7	5728.4	5728.4	5715.1
12.5°	5824.2	5752.3	5677.8	5611.2	5582.0	5579.3	5582.0	5611.2	5611.2	5608.6	5592.6
15°	5603.3	5534.0	5496.8	5480.8	5480.8	5472.8	5472.8	5504.8	5496.8	5496.8	5488.8
17.5°	5456.9	5408.9	5382.3	5363.7	5355.7	5369.0	5385.0	5398.3	5401.0	5390.3	5347.7
20°	5337.1	5291.8	5259.9	5265.2	5262.5	5270.5	5278.5	5233.3	5177.4	5102.8	5068.2
22.5°	5212.0	5177.4	5153.4	5153.4	5121.5	5070.9	4996.3	4980.4	4972.4	4937.8	4908.5
25°	5092.2	5052.2	5017.6	4911.2	4844.6	4852.6	4839.3	4812.7	4810.0	4807.4	4818.0
27.5°	4972.4	4868.6	4735.5	4719.5	4692.9	4690.2	4706.2	4719.5	4719.5	4730.2	4743.5
30°	4724.8	4605.1	4581.1	4551.8	4562.5	4599.7	4607.7	4626.3	4631.7	4650.3	4661.0
32.5°	4498.6	4445.3	4424.0	4437.4	4472.0	4503.9	4522.5	4530.5	4543.8	4559.8	4573.1
35°	4314.9	4298.9	4317.6	4346.9	4381.5	4408.1	4424.0	4440.0	4453.3	4466.6	4477.3
37.5°	4179.2	4189.8	4216.4	4253.7	4288.3	4309.6	4322.9	4341.5	4360.2	4376.1	4312.2
40°	4051.4	4078.0	4107.3	4147.2	4176.5	4197.8	4211.1	4235.1	4075.3	1844.7	1011.5
42.5°	3939.6	3968.9	3990.2	4022.1	4054.0	4070.0	3952.9	1764.8	998.2	992.9	1006.2
45°	3803.8	3827.8	3862.4	3886.3	3915.6	2571.4	982.2	992.9	976.9	987.6	992.9
47.5°	3665.4	3702.7	3721.3	3550.9	1056.8	976.9	966.3	976.9	966.3	979.6	971.6
50°	3508.4	3553.6	2528.8	955.6	947.6	942.3	953.0	947.6	955.6	966.3	945.0
52.5°	3348.6	2073.6	926.3	921.0	926.3	921.0	939.6	926.3	929.0	918.3	891.7
55°	1134.0	897.1	889.1	886.4	902.4	902.4	902.4	881.1	867.8	841.2	822.5
57.5°	867.8	867.8	865.1	867.8	862.4	857.1	833.2	814.5	795.9	758.6	748.0
60°	822.5	822.5	822.5	822.5	798.6	787.9	750.7	734.7	702.7	684.1	673.5
62.5°	785.3	779.9	756.0	748.0	721.4	692.1	670.8	654.8	622.9	612.2	604.2
65°	732.0	713.4	684.1	652.2	638.9	606.9	596.3	572.3	556.3	548.3	543.0
67.5°	644.2	617.6	593.6	572.3	548.3	537.7	524.4	505.8	495.1	489.8	484.5
70°	551.0	532.4	508.4	495.1	479.1	471.2	452.5	447.2	439.2	431.2	423.2
72.5°	460.5	449.9	439.2	420.6	415.3	409.9	391.3	380.6	370.0	359.4	354.0
75°	386.0	378.0	372.7	356.7	348.7	332.7	319.4	311.4	303.5	295.5	290.1
77.5°	316.8	311.4	295.5	284.8	279.5	266.2	260.9	263.5	258.2	247.6	242.2
80°	247.6	242.2	228.9	228.9	223.6	218.3	213.0	207.6	202.3	194.3	189.0
82.5°	189.0	183.7	178.3	173.0	167.7	165.0	162.4	157.1	151.7	146.4	143.7
85°	133.1	130.4	127.8	125.1	122.4	119.8	117.1	111.8	106.5	103.8	101.2
87.5°	90.5	87.8	85.2	82.5	79.9	77.2	74.5	71.9	66.5	63.9	61.2
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°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	6279.4	6292.7	6279.4	6250.1	6231.5	6223.5	6239.4	6239.4	6250.1	6263.4	6266.1
5°	6180.9	6148.9	6111.7	6074.4	6055.8	6045.1	6015.8	6021.2	6029.2	6034.5	6039.8
7.5°	5936.0	5893.4	5842.8	5794.9	5776.3	5760.3	5725.7	5725.7	5725.7	5728.4	5744.3
10°	5685.8	5667.1	5645.8	5613.9	5589.9	5582.0	5552.7	5560.7	5555.3	5563.3	5582.0
12.5°	5568.7	5547.4	5528.7	5496.8	5470.2	5459.5	5446.2	5454.2	5451.5	5464.8	5480.8
15°	5462.2	5451.5	5430.2	5406.3	5382.3	5361.0	5313.1	5297.1	5286.5	5273.2	5291.8
17.5°	5286.5	5212.0	5161.4	5124.1	5097.5	5078.9	5065.6	5065.6	5073.5	5081.5	5097.5
20°	5046.9	5025.6	5001.7	4961.7	4935.1	4924.5	4916.5	4916.5	4929.8	4940.4	4969.7
22.5°	4881.9	4879.2	4871.2	4852.6	4839.3	4839.3	4842.0	4847.3	4865.9	4881.9	4911.2
25°	4804.7	4815.3	4810.0	4799.4	4791.4	4794.0	4788.7	4794.0	4812.7	4828.7	4852.6
27.5°	4743.5	4759.4	4754.1	4738.1	4724.8	4730.2	4738.1	4732.8	4748.8	4767.4	4786.1
30°	4661.0	4663.6	4674.3	4655.6	4650.3	4658.3	4661.0	4666.3	4682.2	4695.6	4711.5
32.5°	4567.8	4589.1	4586.4	4567.8	4567.8	4575.8	4578.4	4400.1	4067.4	3503.0	3348.6
35°	4477.3	4501.2	4461.3	3761.2	2603.3	1389.5	1072.7	1035.5	1043.5	1048.8	1054.1
37.5°	3311.4	1570.5	1000.9	1008.9	1016.8	1024.8	1032.8	1040.8	1048.8	1056.8	1059.4
40°	995.5	992.9	1000.9	1011.5	1019.5	1024.8	1035.5	1043.5	1051.4	1059.4	1062.1
42.5°	984.9	990.2	998.2	1008.9	1019.5	1030.1	1038.1	1048.8	1054.1	1059.4	1062.1
45°	979.6	990.2	1000.9	1008.9	1016.8	1022.2	1027.5	1030.1	1027.5	1027.5	1032.8
47.5°	971.6	982.2	984.9	982.2	984.9	982.2	982.2	982.2	974.2	971.6	971.6
50°	942.3	942.3	937.0	926.3	923.7	921.0	915.7	913.0	902.4	899.7	899.7
52.5°	881.1	878.4	870.4	857.1	851.8	846.5	843.8	841.2	830.5	825.2	827.8
55°	809.2	803.9	795.9	779.9	777.3	771.9	769.3	766.6	756.0	761.3	753.3
57.5°	742.7	732.0	721.4	718.7	708.1	705.4	702.7	700.1	692.1	694.8	689.4
60°	662.8	660.1	654.8	644.2	644.2	641.5	641.5	636.2	630.9	628.2	628.2
62.5°	604.2	596.3	590.9	590.9	583.0	583.0	583.0	577.6	572.3	575.0	572.3
65°	540.4	537.7	535.0	529.7	529.7	527.1	527.1	521.7	513.7	516.4	511.1
67.5°	487.1	481.8	476.5	473.8	463.2	457.8	455.2	452.5	441.9	444.5	439.2
70°	420.6	412.6	407.3	401.9	394.0	388.6	388.6	383.3	375.3	378.0	372.7
72.5°	351.4	346.0	340.7	338.1	330.1	327.4	324.7	322.1	314.1	316.8	314.1
75°	292.8	292.8	290.1	287.5	279.5	271.5	266.2	263.5	258.2	260.9	255.5
77.5°	242.2	236.9	231.6	231.6	223.6	218.3	213.0	213.0	213.0	210.3	207.6
80°	189.0	183.7	183.7	181.0	175.7	170.4	167.7	167.7	165.0	165.0	162.4
82.5°	143.7	138.4	135.8	135.8	130.4	127.8	125.1	122.4	122.4	122.4	119.8
85°	101.2	95.8	93.2	93.2	87.8	85.2	85.2	82.5	82.5	79.9	79.9
87.5°	61.2	58.6	55.9	55.9	50.6	47.9	47.9	47.9	45.3	45.3	42.6
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	6266.1	6266.1	6247.4	6252.8	6244.8	6255.4	6242.1	6242.1	6258.1	6258.1	6268.7
5°	6042.5	6029.2	6026.5	6021.2	5994.6	6005.2	5991.9	5978.6	5997.2	5997.2	6021.2
7.5°	5736.4	5712.4	5723.0	5707.1	5691.1	5667.1	5675.1	5664.5	5677.8	5696.4	5720.4
10°	5579.3	5558.0	5571.3	5555.3	5563.3	5528.7	5531.4	5534.0	5547.4	5552.7	5574.0
12.5°	5478.1	5472.8	5467.5	5462.2	5467.5	5448.9	5438.2	5440.9	5446.2	5448.9	5464.8
15°	5265.2	5230.6	5241.2	5204.0	5206.6	5209.3	5188.0	5209.3	5206.6	5241.2	5273.2
17.5°	5092.2	5092.2	5073.5	5057.6	5046.9	5044.3	5028.3	5038.9	5028.3	5049.6	5057.6
20°	4972.4	4969.7	4967.1	4959.1	4932.5	4935.1	4943.1	4919.2	4916.5	4913.8	4929.8
22.5°	4916.5	4919.2	4908.5	4908.5	4884.5	4889.9	4892.5	4865.9	4868.6	4860.6	4868.6
25°	4857.9	4863.3	4849.9	4849.9	4844.6	4842.0	4828.7	4834.0	4818.0	4804.7	4818.0
27.5°	4788.7	4799.4	4788.7	4794.0	4783.4	4778.1	4770.1	4764.8	4748.8	4746.1	4754.1
30°	4724.8	4730.2	4727.5	4714.2	4711.5	4695.6	4703.5	4687.6	4671.6	4674.3	4679.6
32.5°	2422.3	2313.2	1783.5	1610.4	1594.5	1653.0	1959.1	2385.0	3090.4	3774.5	4267.0
35°	1056.8	1056.8	1056.8	1054.1	1054.1	1051.4	1048.8	1046.1	1043.5	1040.8	1038.1
37.5°	1062.1	1062.1	1062.1	1062.1	1059.4	1056.8	1056.8	1051.4	1048.8	1046.1	1043.5
40°	1064.8	1067.4	1067.4	1067.4	1064.8	1064.8	1062.1	1056.8	1054.1	1048.8	1043.5
42.5°	1062.1	1064.8	1064.8	1062.1	1062.1	1059.4	1059.4	1056.8	1054.1	1051.4	1048.8
45°	1027.5	1030.1	1024.8	1024.8	1022.2	1022.2	1022.2	1022.2	1022.2	1024.8	1024.8
47.5°	966.3	966.3	963.6	960.9	960.9	958.3	960.9	958.3	963.6	966.3	971.6
50°	894.4	894.4	889.1	886.4	886.4	886.4	886.4	889.1	891.7	897.1	902.4
52.5°	819.9	819.9	817.2	814.5	811.9	811.9	819.9	817.2	819.9	822.5	830.5
55°	748.0	750.7	745.3	745.3	742.7	742.7	742.7	745.3	748.0	750.7	758.6
57.5°	686.8	686.8	681.4	681.4	681.4	678.8	686.8	681.4	684.1	686.8	692.1
60°	625.5	622.9	622.9	620.2	620.2	620.2	625.5	622.9	622.9	625.5	630.9
62.5°	569.6	569.6	567.0	567.0	564.3	564.3	569.6	567.0	567.0	569.6	572.3
65°	505.8	505.8	503.1	500.4	508.4	500.4	508.4	503.1	508.4	511.1	516.4
67.5°	433.9	433.9	433.9	431.2	431.2	436.5	439.2	433.9	436.5	441.9	444.5
70°	370.0	370.0	367.3	367.3	367.3	372.7	375.3	370.0	372.7	375.3	380.6
72.5°	314.1	308.8	308.8	306.1	311.4	311.4	314.1	311.4	314.1	314.1	319.4
75°	258.2	252.9	252.9	252.9	258.2	255.5	258.2	255.5	258.2	258.2	260.9
77.5°	207.6	205.0	202.3	202.3	207.6	207.6	207.6	205.0	207.6	210.3	213.0
80°	162.4	159.7	157.1	157.1	162.4	162.4	162.4	165.0	162.4	165.0	167.7
82.5°	119.8	117.1	114.5	119.8	119.8	119.8	119.8	122.4	119.8	122.4	125.1
85°	79.9	77.2	74.5	79.9	79.9	79.9	79.9	82.5	79.9	82.5	85.2
87.5°	42.6	39.9	39.9	42.6	42.6	42.6	45.3	45.3	45.3	47.9	47.9
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-LD5-170HL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	6284.7	6292.7	6290.0	6274.1	6258.1	6239.4	6226.1	6228.8	6255.4	6263.4	6239.4
5°	6021.2	6071.7	6071.7	6106.4	6087.7	6071.7	6082.4	6141.0	6170.2	6215.5	6231.5
7.5°	5749.7	5773.6	5771.0	5805.6	5800.2	5800.2	5808.2	5885.4	5922.7	5959.9	5970.6
10°	5597.9	5621.9	5619.2	5621.9	5613.9	5595.3	5595.3	5629.9	5661.8	5680.5	5685.8
12.5°	5488.8	5502.1	5499.4	5499.4	5494.1	5478.1	5475.5	5504.8	5539.4	5563.3	5566.0
15°	5326.4	5363.7	5371.7	5406.3	5398.3	5377.0	5382.3	5406.3	5427.6	5448.9	5440.9
17.5°	5084.2	5102.8	5105.5	5118.8	5113.5	5113.5	5145.4	5233.3	5291.8	5342.4	5347.7
20°	4945.8	4959.1	4953.8	4983.0	4969.7	4967.1	4975.1	5012.3	5038.9	5062.9	5105.5
22.5°	4879.2	4889.9	4881.9	4884.5	4860.6	4839.3	4834.0	4863.3	4892.5	4924.5	4924.5
25°	4823.3	4831.3	4828.7	4823.3	4804.7	4775.4	4770.1	4775.4	4786.1	4788.7	4770.1
27.5°	4756.8	4762.1	4762.1	4764.8	4740.8	4714.2	4708.9	4703.5	4714.2	4711.5	4682.2
30°	4687.6	4679.6	4682.2	4684.9	4663.6	4639.7	4629.0	4626.3	4637.0	4634.3	4605.1
32.5°	4522.5	4583.8	4589.1	4594.4	4575.8	4554.5	4543.8	4535.8	4541.2	4538.5	4511.9
35°	1035.5	1054.1	1291.0	2922.7	3968.9	4394.8	4440.0	4429.4	4432.0	4432.0	4410.7
37.5°	1038.1	1035.5	1032.8	1024.8	1016.8	1011.5	1748.9	3729.3	4320.2	4322.9	4304.3
40°	1038.1	1035.5	1032.8	1027.5	1016.8	1008.9	995.5	984.9	1008.9	2220.0	4062.0
42.5°	1043.5	1038.1	1032.8	1027.5	1016.8	1006.2	995.5	982.2	990.2	984.9	971.6
45°	1027.5	1024.8	1024.8	1022.2	1016.8	1006.2	992.9	976.9	968.9	976.9	963.6
47.5°	976.9	979.6	987.6	990.2	990.2	992.9	984.9	974.2	960.9	968.9	953.0
50°	907.7	913.0	915.7	929.0	934.3	945.0	947.6	947.6	945.0	955.6	945.0
52.5°	833.2	838.5	851.8	857.1	862.4	878.4	883.7	891.7	897.1	913.0	923.7
55°	761.3	764.0	769.3	779.9	787.9	801.2	809.2	817.2	830.5	838.5	870.4
57.5°	694.8	697.4	708.1	710.7	716.0	726.7	734.7	745.3	756.0	761.3	798.6
60°	630.9	633.5	641.5	644.2	646.8	657.5	665.5	673.5	681.4	686.8	713.4
62.5°	575.0	575.0	583.0	583.0	585.6	593.6	598.9	604.2	612.2	614.9	628.2
65°	519.1	521.7	527.1	527.1	529.7	535.0	537.7	540.4	548.3	548.3	559.0
67.5°	449.9	452.5	460.5	465.8	468.5	479.1	481.8	484.5	489.8	492.4	497.8
70°	383.3	386.0	394.0	396.6	399.3	407.3	412.6	420.6	428.6	436.5	441.9
72.5°	322.1	324.7	332.7	332.7	340.7	343.4	348.7	351.4	359.4	364.7	372.7
75°	263.5	266.2	274.2	274.2	282.2	284.8	287.5	290.1	295.5	300.8	306.1
77.5°	215.6	215.6	226.3	231.6	236.9	236.9	239.6	239.6	239.6	242.2	247.6
80°	170.4	170.4	178.3	183.7	189.0	189.0	191.7	194.3	197.0	197.0	199.6
82.5°	127.8	127.8	135.8	138.4	143.7	143.7	143.7	146.4	149.1	146.4	151.7
85°	87.8	87.8	93.2	95.8	101.2	101.2	101.2	103.8	106.5	103.8	106.5
87.5°	50.6	53.2	55.9	58.6	61.2	63.9	63.9	63.9	66.5	66.5	69.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	6212.8	6180.9	6178.2	6141.0	6130.3	6133.0	6103.7	6093.0	6045.1	6034.5	5983.9
5°	6236.8	6252.8	6244.8	6242.1	6250.1	6244.8	6223.5	6212.8	6204.8	6183.5	6141.0
7.5°	5973.3	5983.9	5991.9	6026.5	6055.8	6106.4	6159.6	6194.2	6220.8	6226.1	6191.5
10°	5704.4	5755.0	5789.6	5842.8	5885.4	5914.7	5946.6	5975.9	6053.1	6130.3	6175.6
12.5°	5566.0	5579.3	5576.6	5605.9	5635.2	5712.4	5786.9	5829.5	5888.1	5922.7	6005.2
15°	5448.9	5451.5	5459.5	5480.8	5496.8	5523.4	5558.0	5621.9	5739.0	5792.3	5837.5
17.5°	5342.4	5342.4	5347.7	5366.4	5387.6	5411.6	5432.9	5459.5	5518.1	5605.9	5717.7
20°	5172.0	5246.6	5254.6	5251.9	5262.5	5307.8	5313.1	5361.0	5390.3	5424.9	5534.0
22.5°	4919.2	4964.4	5028.3	5126.8	5164.0	5185.3	5201.3	5222.6	5267.9	5307.8	5353.0
25°	4780.7	4810.0	4828.7	4857.9	4935.1	5060.2	5084.2	5108.1	5137.4	5166.7	5222.6
27.5°	4658.3	4655.6	4668.9	4695.6	4716.9	4783.4	4900.5	4993.7	4999.0	5041.6	5089.5
30°	4570.4	4554.5	4535.8	4530.5	4559.8	4594.4	4629.0	4775.4	4876.6	4897.9	4948.4
32.5°	4487.9	4461.3	4434.7	4413.4	4394.8	4424.0	4445.3	4509.2	4639.7	4762.1	4788.7
35°	4386.8	4360.2	4328.2	4304.3	4275.0	4272.3	4269.7	4330.9	4373.5	4519.9	4647.6
37.5°	4283.0	4253.7	4227.1	4200.4	4171.2	4149.9	4136.6	4152.5	4192.5	4256.3	4469.3
40°	4173.8	4139.2	4112.6	4091.3	4051.4	4035.4	4008.8	3998.1	4000.8	4056.7	4168.5
42.5°	2494.2	3976.8	3990.2	3966.2	3931.6	3910.3	3881.0	3867.7	3841.1	3867.7	3931.6
45°	960.9	971.6	2909.4	3843.8	3801.2	3774.5	3747.9	3734.6	3705.3	3684.0	3742.6
47.5°	942.3	953.0	931.7	1320.3	3628.1	3636.1	3604.2	3590.9	3561.6	3545.6	3529.7
50°	929.0	937.0	921.0	926.3	907.7	3324.7	3457.8	3441.8	3409.9	3391.2	3359.3
52.5°	915.7	915.7	905.0	891.7	886.4	889.1	2797.6	3290.1	3252.8	3234.2	3191.6
55°	873.1	878.4	889.1	867.8	862.4	859.8	851.8	2664.5	3079.8	3058.5	3021.2
57.5°	809.2	819.9	849.1	843.8	843.8	822.5	817.2	817.2	2472.9	2880.2	2842.9
60°	734.7	745.3	777.3	787.9	795.9	790.6	785.3	782.6	771.9	2606.0	2653.9
62.5°	657.5	668.1	678.8	713.4	724.0	737.3	753.3	745.3	734.7	734.7	2454.3
65°	575.0	590.9	596.3	628.2	641.5	665.5	678.8	697.4	692.1	689.4	702.7
67.5°	503.1	521.7	524.4	537.7	561.7	572.3	588.3	622.9	638.9	644.2	649.5
70°	441.9	452.5	460.5	465.8	481.8	484.5	513.7	537.7	561.7	588.3	596.3
72.5°	380.6	388.6	404.6	399.3	404.6	415.3	431.2	447.2	471.2	508.4	532.4
75°	311.4	316.8	327.4	332.7	343.4	351.4	362.0	375.3	396.6	415.3	447.2
77.5°	250.2	252.9	260.9	263.5	274.2	282.2	300.8	308.8	322.1	335.4	354.0
80°	202.3	202.3	205.0	205.0	213.0	220.9	234.2	242.2	258.2	268.8	268.8
82.5°	154.4	154.4	162.4	162.4	167.7	167.7	175.7	175.7	183.7	189.0	194.3
85°	109.1	111.8	117.1	114.5	119.8	117.1	122.4	127.8	130.4	127.8	125.1
87.5°	71.9	71.9	77.2	74.5	77.2	77.2	82.5	82.5	85.2	85.2	82.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5965.3	5925.3	5901.4	5872.1	5864.1	5856.1	5866.8	5866.8	5850.8	5837.5	5813.5
5°	6103.7	6061.1	6015.8	5967.9	5922.7	5874.8	5856.1	5853.5	5824.2	5808.2	5800.2
7.5°	6175.6	6154.3	6103.7	6037.1	5967.9	5882.8	5845.5	5824.2	5794.9	5789.6	5789.6
10°	6183.5	6159.6	6133.0	6085.1	6005.2	5893.4	5821.5	5778.9	5752.3	5771.0	5805.6
12.5°	6106.4	6151.6	6127.6	6095.7	6031.8	5896.1	5792.3	5728.4	5720.4	5768.3	5858.8
15°	5909.4	6042.5	6109.0	6077.1	6026.5	5890.7	5744.3	5669.8	5669.8	5768.3	5885.4
17.5°	5760.3	5864.1	6026.5	6053.1	5994.6	5880.1	5699.1	5611.2	5635.2	5778.9	5904.0
20°	5637.9	5701.7	5858.8	6007.9	5952.0	5856.1	5632.5	5542.0	5589.9	5763.0	5930.7
22.5°	5446.2	5574.0	5669.8	5890.7	5909.4	5810.9	5566.0	5456.9	5552.7	5763.0	5917.4
25°	5259.9	5414.3	5515.4	5731.0	5845.5	5755.0	5504.8	5366.4	5512.8	5755.0	5906.7
27.5°	5129.4	5201.3	5385.0	5539.4	5749.7	5680.5	5422.2	5267.9	5462.2	5712.4	5845.5
30°	4991.0	5038.9	5219.9	5366.4	5621.9	5595.3	5337.1	5158.7	5398.3	5672.5	5685.8
32.5°	4839.3	4892.5	4985.7	5198.7	5443.5	5515.4	5241.2	5049.6	5329.1	5611.2	5499.4
35°	4684.9	4724.8	4799.4	5028.3	5235.9	5395.6	5124.1	4924.5	5281.2	5518.1	5321.1
37.5°	4530.5	4573.1	4637.0	4828.7	5017.6	5283.8	5023.0	4799.4	5193.3	5353.0	5134.8
40°	4384.1	4408.1	4474.6	4594.4	4836.6	5169.4	4908.5	4668.9	5102.8	5142.8	4881.9
42.5°	4115.3	4235.1	4296.3	4392.1	4631.7	5012.3	4775.4	4530.5	5001.7	4932.5	4629.0
45°	3825.1	4086.0	4112.6	4208.4	4450.7	4844.6	4650.3	4394.8	4905.8	4751.5	4389.4
47.5°	3588.2	3777.2	3931.6	4011.5	4235.1	4647.6	4533.2	4280.3	4762.1	4522.5	4155.2
50°	3377.9	3479.1	3758.6	3817.1	3976.8	4410.7	4394.8	4147.2	4562.5	4235.1	3926.3
52.5°	3173.0	3244.8	3497.7	3622.8	3753.3	4155.2	4229.7	4016.8	4344.2	3947.6	3694.7
55°	2994.6	3018.6	3157.0	3420.5	3537.6	3897.0	4048.7	3865.0	4067.4	3673.4	3471.1
57.5°	2810.9	2789.7	2890.8	3228.9	3314.0	3633.5	3857.1	3710.7	3843.8	3393.9	3239.5
60°	2619.3	2590.0	2632.6	2856.2	3077.1	3372.6	3630.8	3540.3	3572.2	3117.1	2981.3
62.5°	2419.6	2390.4	2377.1	2518.1	2845.5	3103.8	3401.9	3351.3	3239.5	2864.2	2661.9
65°	2212.0	2182.7	2161.4	2217.3	2590.0	2755.0	3146.3	3133.0	2874.8	2598.0	2241.3
67.5°	673.5	1985.8	1940.5	1937.8	2182.7	2438.3	2869.5	2848.2	2507.5	2313.2	1929.9
70°	606.9	1610.4	1711.6	1687.6	1794.1	2116.2	2552.7	2536.8	2150.8	1855.3	1706.3
72.5°	556.3	569.6	1511.9	1485.3	1509.3	1799.4	2222.7	2180.1	1823.4	1464.0	1474.7
75°	476.5	500.4	521.7	1253.7	1221.8	1490.7	1863.3	1796.8	1504.0	1208.5	1232.5
77.5°	388.6	417.9	433.9	913.0	987.6	1062.1	1488.0	1400.1	1035.5	966.3	460.5
80°	290.1	314.1	340.7	364.7	750.7	742.7	1104.7	1016.8	721.4	601.6	359.4
82.5°	213.0	220.9	236.9	263.5	298.1	497.8	710.7	625.5	500.4	274.2	247.6
85°	133.1	143.7	151.7	159.7	181.0	298.1	351.4	279.5	210.3	167.7	157.1
87.5°	85.2	85.2	82.5	85.2	87.8	106.5	119.8	114.5	90.5	85.2	85.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5786.9	5749.7	5749.7	5739.0	5747.0	5747.0	5744.3	5747.0	5765.6	5776.3	5794.9
5°	5784.3	5773.6	5797.6	5826.9	5861.5	5904.0	5914.7	5952.0	5986.6	6031.8	6079.7
7.5°	5818.9	5856.1	5901.4	5949.3	6018.5	6069.1	6114.3	6159.6	6191.5	6234.1	6260.7
10°	5869.4	5944.0	6021.2	6082.4	6156.9	6199.5	6228.8	6234.1	6188.9	6117.0	6058.4
12.5°	5941.3	6029.2	6101.0	6159.6	6194.2	6178.2	6093.0	6005.2	5954.6	5880.1	5776.3
15°	6002.5	6082.4	6156.9	6133.0	6039.8	5952.0	5885.4	5781.6	5680.5	5611.2	5566.0
17.5°	6029.2	6106.4	6079.7	5954.6	5866.8	5765.6	5629.9	5550.0	5483.5	5430.2	5403.6
20°	6045.1	6031.8	5888.1	5797.6	5627.2	5534.0	5446.2	5371.7	5321.1	5294.5	5289.2
22.5°	6002.5	5840.2	5717.7	5555.3	5430.2	5353.0	5283.8	5222.6	5188.0	5166.7	5153.4
25°	5861.5	5672.5	5491.5	5363.7	5257.2	5190.7	5137.4	5086.9	5044.3	5033.6	5007.0
27.5°	5664.5	5510.1	5270.5	5172.0	5078.9	5046.9	4988.4	4937.8	4900.5	4868.6	4783.4
30°	5502.1	5257.2	5084.2	4993.7	4937.8	4900.5	4834.0	4780.7	4716.9	4599.7	4551.8
32.5°	5302.5	5060.2	4895.2	4844.6	4775.4	4743.5	4668.9	4551.8	4453.3	4405.4	4402.7
35°	5044.3	4844.6	4724.8	4679.6	4623.7	4570.4	4416.1	4309.6	4261.7	4267.0	4306.9
37.5°	4828.7	4650.3	4573.1	4509.2	4445.3	4309.6	4179.2	4128.6	4141.9	4168.5	4187.1
40°	4610.4	4474.6	4386.8	4336.2	4192.5	4059.4	3990.2	4008.8	4032.7	4051.4	4075.3
42.5°	4397.4	4301.6	4213.8	4115.3	3918.3	3846.4	3862.4	3886.3	3907.6	3934.3	3958.2
45°	4195.1	4109.9	4008.8	3785.2	3686.7	3705.3	3729.3	3747.9	3779.9	3798.5	3822.5
47.5°	4003.5	3913.0	3734.6	3537.6	3527.0	3564.3	3585.6	3609.5	3633.5	3585.6	1977.8
50°	3787.9	3694.7	3423.2	3348.6	3372.6	3407.2	3433.8	3457.8	3079.8	1224.5	942.3
52.5°	3574.9	3338.0	3165.0	3186.3	3210.2	3250.2	3268.8	2427.6	966.3	921.0	923.7
55°	3338.0	3034.5	2984.0	3010.6	3031.9	3071.8	2036.3	891.7	886.4	883.7	905.0
57.5°	2965.3	2781.7	2803.0	2829.6	2850.9	2012.4	867.8	862.4	865.1	867.8	870.4
60°	2632.6	2592.7	2616.6	2640.6	1868.6	838.5	822.5	825.2	835.8	827.8	806.5
62.5°	2369.1	2401.0	2425.0	2124.2	795.9	787.9	795.9	787.9	769.3	756.0	729.4
65°	2166.8	2198.7	2217.3	748.0	745.3	756.0	748.0	721.4	692.1	654.8	646.8
67.5°	1953.8	1985.8	710.7	692.1	702.7	689.4	657.5	625.5	604.2	572.3	559.0
70°	1732.9	742.7	644.2	641.5	622.9	601.6	567.0	535.0	508.4	495.1	481.8
72.5°	1251.1	588.3	580.3	559.0	527.1	497.8	468.5	449.9	436.5	428.6	420.6
75°	521.7	511.1	487.1	449.9	417.9	404.6	383.3	370.0	364.7	348.7	343.4
77.5°	436.5	415.3	380.6	354.0	335.4	327.4	311.4	295.5	287.5	284.8	274.2
80°	335.4	306.1	290.1	276.8	271.5	252.9	234.2	226.3	220.9	218.3	210.3
82.5°	228.9	218.3	207.6	189.0	189.0	181.0	173.0	167.7	162.4	162.4	157.1
85°	149.1	141.1	138.4	130.4	130.4	125.1	122.4	119.8	117.1	114.5	111.8
87.5°	85.2	85.2	87.8	85.2	85.2	82.5	79.9	77.2	74.5	74.5	69.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5818.9	5845.5	5850.8	5941.3	5991.9	5989.2	5973.3	6021.2	5991.9	5975.9	5991.9
5°	6127.6	6159.6	6186.2	6284.7	6319.3	6335.3	6332.6	6359.2	6337.9	6319.3	6319.3
7.5°	6279.4	6290.0	6300.7	6276.7	6260.7	6234.1	6194.2	6135.6	6106.4	6074.4	6034.5
10°	6029.2	5994.6	6007.9	5959.9	5920.0	5890.7	5853.5	5805.6	5765.6	5736.4	5691.1
12.5°	5723.0	5720.4	5725.7	5733.7	5693.8	5669.8	5640.5	5605.9	5576.6	5544.7	5507.4
15°	5536.7	5539.4	5560.7	5552.7	5539.4	5526.1	5494.1	5483.5	5456.9	5422.2	5401.0
17.5°	5403.6	5416.9	5438.2	5427.6	5406.3	5393.0	5369.0	5345.1	5321.1	5294.5	5262.5
20°	5286.5	5299.8	5313.1	5299.8	5259.9	5241.2	5209.3	5134.8	5081.5	5028.3	4980.4
22.5°	5158.7	5166.7	5156.1	5113.5	5012.3	4964.4	4927.1	4905.8	4860.6	4831.3	4802.0
25°	4999.0	4953.8	4884.5	4836.6	4796.7	4775.4	4759.4	4756.8	4751.5	4746.1	4732.8
27.5°	4738.1	4722.2	4684.9	4666.3	4668.9	4676.9	4679.6	4687.6	4679.6	4668.9	4658.3
30°	4543.8	4551.8	4554.5	4559.8	4573.1	4581.1	4583.8	4594.4	4589.1	4581.1	4575.8
32.5°	4421.4	4440.0	4450.7	4466.6	4474.6	4487.9	4487.9	4503.9	4487.9	4485.3	4479.9
35°	4320.2	4336.2	4341.5	4365.5	4373.5	4386.8	4386.8	4400.1	4386.8	4251.0	3356.6
37.5°	4219.1	4235.1	4245.7	4267.0	4269.7	4277.6	3947.6	2888.1	1863.3	1442.7	1102.0
40°	4099.3	4117.9	4128.6	4136.6	2906.8	1844.7	1269.7	1032.8	1032.8	1040.8	1048.8
42.5°	3971.5	3984.8	2776.3	1615.8	1006.2	1003.5	1011.5	1019.5	1027.5	1038.1	1048.8
45°	3122.4	1575.8	1000.9	976.9	984.9	995.5	1006.2	1016.8	1030.1	1040.8	1046.1
47.5°	1024.8	960.9	974.2	963.6	976.9	990.2	1000.9	1011.5	1014.2	1016.8	1014.2
50°	947.6	947.6	955.6	955.6	966.3	971.6	971.6	971.6	960.9	958.3	950.3
52.5°	915.7	937.0	926.3	931.7	926.3	918.3	910.4	902.4	886.4	881.1	870.4
55°	899.7	907.7	881.1	873.1	862.4	841.2	830.5	819.9	806.5	801.2	787.9
57.5°	862.4	843.8	814.5	801.2	782.6	761.3	750.7	742.7	729.4	724.0	716.0
60°	793.2	756.0	737.3	721.4	700.1	681.4	673.5	668.1	657.5	654.8	646.8
62.5°	708.1	676.1	660.1	638.9	622.9	612.2	604.2	601.6	590.9	590.9	585.6
65°	614.9	598.9	585.6	564.3	556.3	545.7	543.0	540.4	535.0	532.4	527.1
67.5°	540.4	529.7	511.1	500.4	495.1	487.1	481.8	476.5	465.8	460.5	452.5
70°	473.8	465.8	447.2	439.2	428.6	415.3	407.3	401.9	394.0	388.6	380.6
72.5°	409.9	386.0	372.7	364.7	356.7	343.4	340.7	335.4	327.4	324.7	316.8
75°	330.1	311.4	303.5	298.1	290.1	282.2	282.2	282.2	274.2	271.5	268.8
77.5°	263.5	252.9	247.6	242.2	239.6	234.2	226.3	223.6	215.6	215.6	213.0
80°	202.3	197.0	191.7	189.0	186.3	181.0	175.7	173.0	165.0	165.0	162.4
82.5°	149.1	146.4	143.7	141.1	138.4	135.8	127.8	125.1	119.8	119.8	117.1
85°	106.5	103.8	98.5	95.8	95.8	93.2	85.2	82.5	77.2	77.2	77.2
87.5°	66.5	63.9	61.2	58.6	55.9	53.2	47.9	45.3	45.3	39.9	37.3
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5959.9	6005.2	5999.9	6031.8	6039.8	6055.8	6061.1	6063.8	6023.8	6055.8	6058.4
5°	6311.3	6319.3	6324.6	6337.9	6351.2	6353.9	6340.6	6324.6	6330.0	6319.3	6292.7
7.5°	6029.2	5989.2	5981.2	5970.6	5965.3	5959.9	5936.0	5957.3	5933.3	5922.7	5885.4
10°	5683.1	5645.8	5643.2	5643.2	5651.2	5648.5	5643.2	5632.5	5653.8	5640.5	5632.5
12.5°	5502.1	5488.8	5496.8	5491.5	5512.8	5518.1	5512.8	5512.8	5507.4	5496.8	5502.1
15°	5393.0	5382.3	5390.3	5382.3	5398.3	5401.0	5387.6	5395.6	5382.3	5369.0	5363.7
17.5°	5249.2	5225.3	5206.6	5180.0	5182.7	5177.4	5161.4	5161.4	5148.1	5113.5	5116.1
20°	4972.4	4948.4	4937.8	4937.8	4951.1	4956.4	4953.8	4959.1	4945.8	4940.4	4919.2
22.5°	4799.4	4796.7	4802.0	4815.3	4836.6	4865.9	4868.6	4868.6	4868.6	4865.9	4839.3
25°	4738.1	4738.1	4743.5	4762.1	4778.1	4799.4	4804.7	4810.0	4804.7	4804.7	4780.7
27.5°	4668.9	4663.6	4674.3	4692.9	4711.5	4727.5	4740.8	4743.5	4735.5	4735.5	4743.5
30°	4583.8	4581.1	4594.4	4613.0	4629.0	4645.0	4658.3	4668.9	4658.3	4658.3	4650.3
32.5°	4495.9	4495.9	4501.2	4389.4	4070.0	3665.4	3673.4	3439.1	3276.8	3071.8	3343.3
35°	2805.6	2041.7	1754.2	1485.3	1296.3	1173.9	1171.2	1131.3	1112.7	1099.4	1096.7
37.5°	1059.4	1064.8	1075.4	1080.7	1088.7	1094.0	1096.7	1096.7	1096.7	1096.7	1094.0
40°	1056.8	1067.4	1075.4	1083.4	1091.4	1096.7	1096.7	1099.4	1102.0	1102.0	1102.0
42.5°	1059.4	1070.1	1080.7	1088.7	1094.0	1096.7	1099.4	1102.0	1102.0	1102.0	1102.0
45°	1056.8	1062.1	1062.1	1064.8	1064.8	1064.8	1067.4	1067.4	1064.8	1062.1	1067.4
47.5°	1016.8	1016.8	1008.9	1006.2	1003.5	998.2	1000.9	998.2	995.5	992.9	998.2
50°	947.6	937.0	931.7	926.3	923.7	918.3	921.0	918.3	915.7	910.4	918.3
52.5°	865.1	862.4	851.8	846.5	843.8	846.5	841.2	838.5	835.8	833.2	835.8
55°	785.3	774.6	771.9	766.6	764.0	766.6	764.0	761.3	758.6	756.0	758.6
57.5°	713.4	705.4	702.7	697.4	697.4	697.4	697.4	694.8	692.1	689.4	692.1
60°	644.2	638.9	636.2	636.2	633.5	633.5	633.5	630.9	628.2	628.2	630.9
62.5°	585.6	585.6	577.6	575.0	575.0	577.6	575.0	572.3	569.6	567.0	572.3
65°	524.4	513.7	511.1	505.8	500.4	503.1	500.4	497.8	495.1	492.4	497.8
67.5°	449.9	447.2	436.5	431.2	428.6	431.2	428.6	425.9	423.2	420.6	425.9
70°	378.0	378.0	367.3	364.7	362.0	362.0	359.4	359.4	356.7	354.0	359.4
72.5°	314.1	314.1	311.4	306.1	303.5	300.8	298.1	295.5	295.5	298.1	298.1
75°	260.9	255.5	244.9	247.6	244.9	242.2	242.2	239.6	236.9	242.2	239.6
77.5°	205.0	202.3	194.3	197.0	194.3	191.7	191.7	189.0	186.3	189.0	189.0
80°	154.4	154.4	151.7	149.1	149.1	146.4	143.7	143.7	141.1	143.7	143.7
82.5°	111.8	111.8	109.1	106.5	103.8	103.8	101.2	101.2	101.2	101.2	101.2
85°	71.9	69.2	69.2	63.9	63.9	63.9	61.2	61.2	61.2	61.2	61.2
87.5°	34.6	34.6	31.9	31.9	29.3	26.6	26.6	24.0	24.0	26.6	26.6
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	6010.5	6045.1	6015.8	6029.2	6031.8	6077.1	6074.4	6085.1	6066.4	6045.1	6015.8
5°	6316.6	6300.7	6279.4	6330.0	6303.3	6335.3	6345.9	6367.2	6367.2	6364.6	6340.6
7.5°	5925.3	5890.7	5917.4	5936.0	5944.0	5922.7	5965.3	6013.2	6053.1	6077.1	6079.7
10°	5619.2	5629.9	5627.2	5635.2	5653.8	5651.2	5677.8	5704.4	5715.1	5731.0	5736.4
12.5°	5475.5	5472.8	5478.1	5496.8	5507.4	5504.8	5531.4	5547.4	5552.7	5555.3	5552.7
15°	5361.0	5342.4	5355.7	5358.4	5366.4	5366.4	5398.3	5422.2	5432.9	5438.2	5432.9
17.5°	5145.4	5100.2	5142.8	5142.8	5172.0	5166.7	5217.3	5257.2	5278.5	5294.5	5294.5
20°	4932.5	4911.2	4927.1	4921.8	4943.1	4940.4	4972.4	4999.0	5017.6	5031.0	5046.9
22.5°	4847.3	4852.6	4828.7	4831.3	4831.3	4828.7	4844.6	4857.9	4863.3	4871.2	4865.9
25°	4791.4	4796.7	4788.7	4775.4	4770.1	4775.4	4783.4	4799.4	4802.0	4796.7	4778.1
27.5°	4735.5	4719.5	4732.8	4708.9	4703.5	4714.2	4724.8	4727.5	4730.2	4730.2	4714.2
30°	4650.3	4637.0	4650.3	4639.7	4629.0	4639.7	4647.6	4647.6	4653.0	4655.6	4637.0
32.5°	3250.2	3276.8	3708.0	3968.9	4336.2	4522.5	4557.1	4557.1	4562.5	4562.5	4546.5
35°	1107.3	1110.0	1200.5	1301.7	1517.3	1783.5	2132.2	2313.2	2925.4	3657.4	4365.5
37.5°	1094.0	1091.4	1088.7	1086.0	1083.4	1080.7	1075.4	1072.7	1088.7	1291.0	1751.5
40°	1099.4	1096.7	1091.4	1088.7	1086.0	1080.7	1078.1	1072.7	1067.4	1062.1	1056.8
42.5°	1099.4	1096.7	1094.0	1091.4	1088.7	1086.0	1080.7	1075.4	1070.1	1062.1	1054.1
45°	1062.1	1062.1	1064.8	1064.8	1067.4	1067.4	1067.4	1064.8	1064.8	1062.1	1051.4
47.5°	992.9	992.9	1000.9	1000.9	1006.2	1011.5	1011.5	1016.8	1024.8	1030.1	1032.8
50°	913.0	913.0	921.0	923.7	929.0	937.0	945.0	947.6	955.6	966.3	976.9
52.5°	833.2	833.2	841.2	841.2	846.5	854.5	862.4	865.1	875.8	886.4	899.7
55°	758.6	758.6	764.0	766.6	769.3	774.6	782.6	782.6	793.2	801.2	814.5
57.5°	692.1	697.4	697.4	697.4	700.1	705.4	710.7	710.7	718.7	726.7	737.3
60°	628.2	633.5	633.5	633.5	636.2	638.9	644.2	644.2	649.5	654.8	665.5
62.5°	569.6	575.0	575.0	577.6	577.6	580.3	585.6	583.0	588.3	590.9	598.9
65°	495.1	500.4	503.1	505.8	508.4	513.7	521.7	519.1	527.1	532.4	540.4
67.5°	423.2	428.6	428.6	431.2	433.9	439.2	444.5	444.5	452.5	457.8	468.5
70°	356.7	362.0	362.0	364.7	367.3	372.7	378.0	375.3	383.3	388.6	396.6
72.5°	295.5	300.8	300.8	303.5	303.5	308.8	314.1	319.4	319.4	324.7	330.1
75°	239.6	242.2	244.9	244.9	247.6	250.2	255.5	260.9	263.5	266.2	271.5
77.5°	189.0	191.7	194.3	194.3	197.0	199.6	202.3	213.0	218.3	220.9	220.9
80°	143.7	146.4	146.4	146.4	149.1	151.7	157.1	157.1	167.7	167.7	170.4
82.5°	101.2	103.8	103.8	103.8	106.5	111.8	114.5	117.1	122.4	125.1	125.1
85°	61.2	63.9	63.9	63.9	66.5	69.2	74.5	77.2	79.9	79.9	82.5
87.5°	24.0	26.6	29.3	29.3	31.9	34.6	37.3	39.9	42.6	42.6	45.3
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5983.9	6002.5	5983.9	5994.6	6007.9	5983.9	5928.0	5906.7	5898.7	5866.8	5845.5
5°	6316.6	6316.6	6308.7	6330.0	6327.3	6290.0	6231.5	6204.8	6178.2	6143.6	6117.0
7.5°	6079.7	6101.0	6114.3	6196.9	6250.1	6255.4	6292.7	6300.7	6311.3	6300.7	6284.7
10°	5739.0	5731.0	5768.3	5845.5	5890.7	5914.7	5986.6	6021.2	6050.5	6109.0	6170.2
12.5°	5547.4	5558.0	5574.0	5629.9	5672.5	5661.8	5691.1	5715.1	5749.7	5808.2	5896.1
15°	5419.6	5430.2	5446.2	5488.8	5515.4	5502.1	5518.1	5534.0	5558.0	5587.3	5640.5
17.5°	5281.2	5299.8	5318.4	5363.7	5387.6	5385.0	5398.3	5403.6	5411.6	5430.2	5467.5
20°	5065.6	5124.1	5161.4	5222.6	5257.2	5251.9	5275.8	5283.8	5294.5	5313.1	5329.1
22.5°	4868.6	4884.5	4903.2	4969.7	5028.3	5100.2	5116.1	5137.4	5164.0	5182.7	5198.7
25°	4756.8	4746.1	4754.1	4799.4	4831.3	4836.6	4860.6	4929.8	5001.7	5033.6	5070.9
27.5°	4690.2	4679.6	4676.9	4698.2	4703.5	4690.2	4684.9	4706.2	4759.4	4812.7	4924.5
30°	4618.4	4605.1	4594.4	4613.0	4621.0	4602.4	4567.8	4549.2	4581.1	4594.4	4639.7
32.5°	4533.2	4519.9	4514.5	4525.2	4530.5	4514.5	4477.3	4456.0	4450.7	4440.0	4450.7
35°	4437.4	4424.0	4416.1	4418.7	4429.4	4416.1	4384.1	4357.5	4344.2	4314.9	4293.6
37.5°	2286.6	3239.5	4205.8	4306.9	4317.6	4314.9	4283.0	4253.7	4240.4	4205.8	4195.1
40°	1046.1	1168.6	1754.2	2291.9	3306.1	4200.4	4171.2	4141.9	4117.9	4107.3	4067.4
42.5°	1043.5	1046.1	1048.8	1035.5	1283.0	2185.4	3226.2	4027.4	4011.5	3984.8	3955.6
45°	1043.5	1030.1	1040.8	1024.8	1030.1	1027.5	1280.4	2065.6	3676.1	3841.1	3827.8
47.5°	1032.8	1024.8	1035.5	1022.2	1006.2	1014.2	1003.5	1016.8	1586.5	2691.2	3686.7
50°	984.9	990.2	1008.9	1006.2	992.9	1003.5	984.9	1000.9	987.6	1083.4	2086.9
52.5°	913.0	923.7	942.3	958.3	963.6	976.9	971.6	976.9	966.3	968.9	971.6
55°	827.8	841.2	857.1	881.1	891.7	913.0	929.0	937.0	950.3	947.6	926.3
57.5°	748.0	761.3	774.6	798.6	822.5	833.2	862.4	878.4	913.0	905.0	899.7
60°	673.5	684.1	697.4	702.7	732.0	750.7	777.3	793.2	838.5	849.1	865.1
62.5°	606.9	612.2	622.9	630.9	649.5	668.1	681.4	708.1	732.0	766.6	790.6
65°	545.7	551.0	559.0	564.3	567.0	593.6	601.6	630.9	638.9	676.1	697.4
67.5°	476.5	487.1	497.8	503.1	508.4	524.4	529.7	543.0	561.7	577.6	604.2
70°	404.6	412.6	423.2	431.2	441.9	452.5	468.5	476.5	489.8	500.4	521.7
72.5°	338.1	346.0	351.4	359.4	367.3	375.3	388.6	407.3	417.9	436.5	441.9
75°	274.2	282.2	287.5	292.8	300.8	306.1	311.4	330.1	340.7	356.7	372.7
77.5°	226.3	226.3	231.6	247.6	244.9	244.9	250.2	260.9	268.8	279.5	295.5
80°	175.7	178.3	181.0	194.3	197.0	199.6	197.0	205.0	213.0	215.6	226.3
82.5°	130.4	133.1	133.1	141.1	149.1	149.1	149.1	151.7	159.7	162.4	167.7
85°	87.8	90.5	93.2	95.8	101.2	103.8	106.5	106.5	111.8	114.5	117.1
87.5°	47.9	53.2	55.9	58.6	61.2	63.9	66.5	69.2	71.9	74.5	77.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2	5808.2
2.5°	5837.5	5824.2	5816.2	5794.9	5789.6	5755.0	5760.3	5755.0	5755.0	5763.0	5789.6
5°	6087.7	6023.8	6007.9	5962.6	5925.3	5861.5	5821.5	5800.2	5768.3	5755.0	5773.6
7.5°	6258.1	6210.2	6170.2	6130.3	6077.1	6002.5	5946.6	5882.8	5829.5	5778.9	5765.6
10°	6228.8	6282.0	6282.0	6258.1	6207.5	6133.0	6066.4	5986.6	5893.4	5813.5	5765.6
12.5°	5981.2	6074.4	6148.9	6204.8	6255.4	6204.8	6138.3	6074.4	5970.6	5853.5	5765.6
15°	5709.7	5805.6	5898.7	6015.8	6138.3	6188.9	6186.2	6111.7	6018.5	5896.1	5773.6
17.5°	5518.1	5584.6	5635.2	5763.0	5912.0	6042.5	6130.3	6135.6	6045.1	5936.0	5776.3
20°	5374.3	5422.2	5464.8	5536.7	5667.1	5826.9	5989.2	6079.7	6063.8	5944.0	5784.3
22.5°	5243.9	5278.5	5313.1	5366.4	5470.2	5574.0	5763.0	5949.3	6029.2	5930.7	5776.3
25°	5113.5	5150.7	5177.4	5214.6	5297.1	5382.3	5515.4	5747.0	5925.3	5920.0	5760.3
27.5°	4959.1	5009.7	5041.6	5092.2	5148.1	5212.0	5302.5	5520.7	5776.3	5866.8	5717.7
30°	4772.8	4847.3	4895.2	4951.1	4999.0	5054.9	5126.8	5259.9	5576.6	5763.0	5672.5
32.5°	4503.9	4637.0	4743.5	4796.7	4849.9	4897.9	4961.7	5073.5	5331.7	5621.9	5621.9
35°	4312.2	4373.5	4469.3	4623.7	4690.2	4738.1	4796.7	4884.5	5049.6	5454.2	5539.4
37.5°	4163.2	4187.1	4235.1	4386.8	4511.9	4589.1	4647.6	4703.5	4865.9	5225.3	5432.9
40°	4051.4	4043.4	4038.1	4109.9	4288.3	4410.7	4477.3	4533.2	4658.3	4951.1	5291.8
42.5°	3920.9	3913.0	3886.3	3905.0	3992.8	4197.8	4298.9	4360.2	4464.0	4663.6	5137.4
45°	3785.2	3771.9	3761.2	3742.6	3774.5	3889.0	4096.6	4187.1	4245.7	4424.0	4943.1
47.5°	3646.8	3628.1	3614.8	3598.9	3580.2	3633.5	3830.4	3992.8	4094.0	4205.8	4708.9
50°	3449.8	3473.8	3457.8	3439.1	3423.2	3412.5	3495.0	3761.2	3886.3	3976.8	4424.0
52.5°	1626.4	3162.3	3295.4	3276.8	3255.5	3236.8	3255.5	3457.8	3684.0	3755.9	4080.7
55°	926.3	1408.1	2930.7	3098.4	3079.8	3053.2	3037.2	3106.4	3444.5	3540.3	3766.6
57.5°	891.7	894.4	1293.7	2792.3	2896.1	2872.2	2853.5	2869.5	3157.0	3319.4	3492.4
60°	862.4	862.4	862.4	1235.1	2669.9	2677.9	2653.9	2627.3	2752.4	3071.8	3215.6
62.5°	798.6	814.5	822.5	822.5	1219.1	2472.9	2448.9	2440.9	2446.3	2773.7	2938.7
65°	716.0	753.3	769.3	779.9	779.9	1280.4	2238.6	2225.3	2206.7	2331.8	2659.2
67.5°	625.5	662.8	697.4	718.7	721.4	745.3	1336.3	2004.4	1977.8	1980.4	2361.1
70°	532.4	564.3	601.6	633.5	662.8	676.1	697.4	1663.7	1751.5	1714.3	2023.0
72.5°	460.5	473.8	500.4	532.4	567.0	598.9	617.6	662.8	1519.9	1480.0	1538.6
75°	383.3	394.0	412.6	433.9	460.5	497.8	529.7	561.7	806.5	1240.4	1232.5
77.5°	298.1	316.8	338.1	351.4	364.7	391.3	433.9	465.8	497.8	838.5	987.6
80°	228.9	242.2	252.9	266.2	282.2	300.8	316.8	354.0	391.3	420.6	756.0
82.5°	170.4	178.3	186.3	191.7	197.0	207.6	236.9	250.2	274.2	300.8	356.7
85°	119.8	125.1	130.4	133.1	135.8	138.4	149.1	151.7	175.7	181.0	215.6
87.5°	77.2	79.9	85.2	87.8	87.8	90.5	93.2	93.2	93.2	87.8	106.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	5808.2	5808.2
2.5°	5810.9	5853.5
5°	5802.9	5858.8
7.5°	5781.6	5834.8
10°	5749.7	5813.5
12.5°	5715.1	5776.3
15°	5685.8	5731.0
17.5°	5653.8	5680.5
20°	5611.2	5632.5
22.5°	5568.7	5558.0
25°	5520.7	5496.8
27.5°	5459.5	5414.3
30°	5403.6	5323.8
32.5°	5350.4	5219.9
35°	5278.5	5113.5
37.5°	5204.0	5004.3
40°	5116.1	4879.2
42.5°	5023.0	4754.1
45°	4905.8	4634.3
47.5°	4802.0	4490.6
50°	4658.3	4336.2
52.5°	4482.6	4192.5
55°	4275.0	4016.8
57.5°	4051.4	3833.1
60°	3811.8	3622.8
62.5°	3521.7	3404.5
65°	3180.9	3154.3
67.5°	2736.4	2877.5
70°	2244.0	2560.7
72.5°	1876.6	2225.3
75°	1538.6	1850.0
77.5°	1219.1	1450.7
80°	761.3	1062.1
82.5°	511.1	697.4
85°	308.8	332.7
87.5°	119.8	122.4
90°	0.0	0.0

(END OF REPORT)