

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-L930-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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

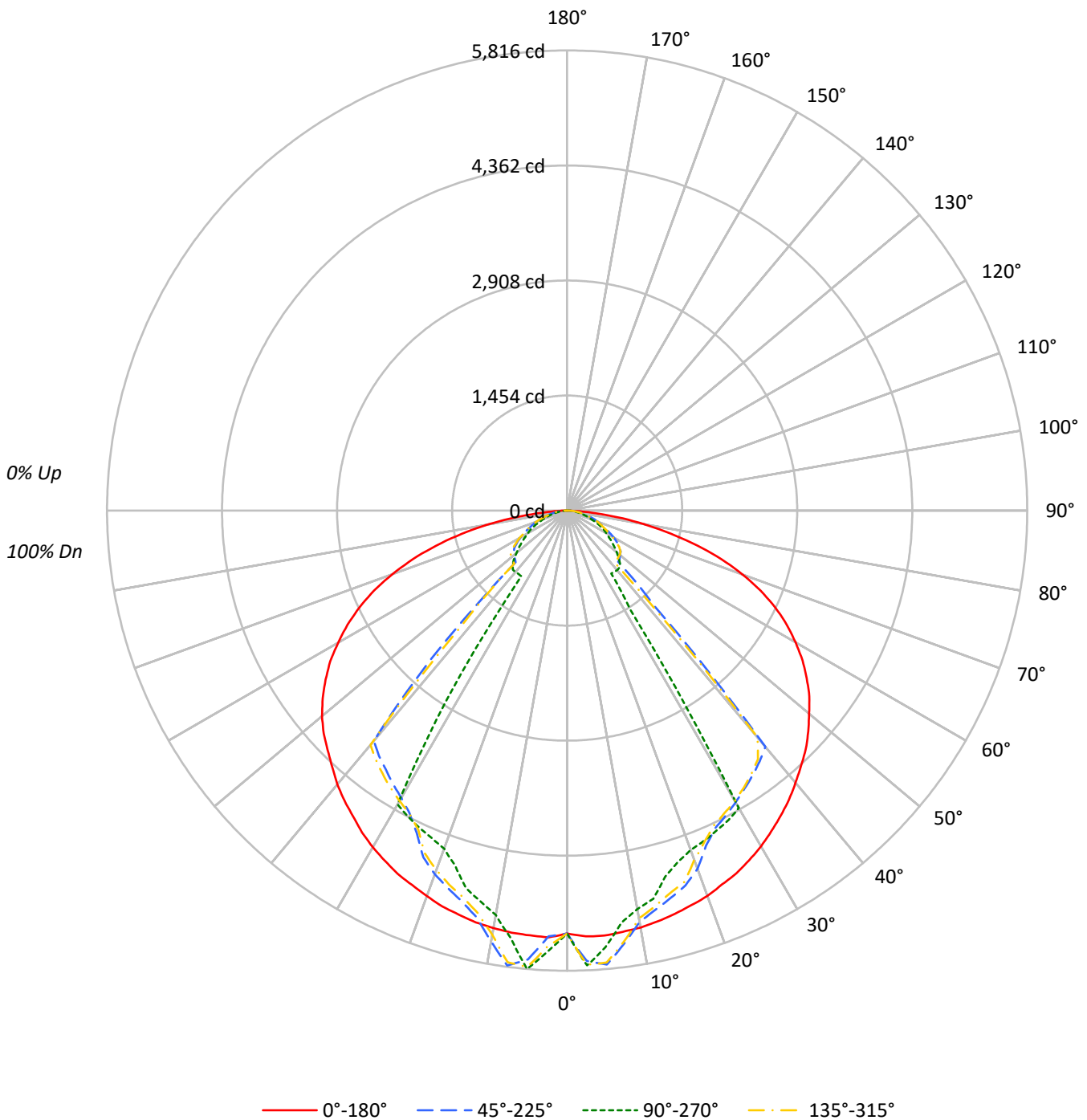
Lumens per Lamp: N/A
Luminaire Lumens: 10704.9 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
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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°	21600	21600	21600	21600
5°	21841	21763	21831	22840
10°	21893	19676	21923	19978
15°	21973	18204	22024	18782
20°	22165	17267	22165	17202
25°	22392	16936	22424	16778
30°	22656	16638	22713	16440
35°	22963	3790	23011	3952
40°	23380	3941	23520	4068
45°	23998	3919	24081	4061
50°	24628	3543	24961	3639
55°	25475	3146	25677	3191
60°	26235	2795	26293	2831
65°	26857	2440	26788	2400
70°	26698	1966	26614	1895
75°	25117	1513	25298	1449
80°	20893	1075	21731	984
85°	12044	644	12721	493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.0	4.9
10°-20°	1446.1	13.5
20°-30°	2142.0	20.0
30°-40°	2158.3	20.2
40°-50°	1685.9	15.7
50°-60°	1302.3	12.2
60°-70°	874.3	8.2
70°-80°	446.0	4.2
80°-90°	124.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4114.1	38.4
0°-40°	6272.4	58.6
0°-60°	9260.6	86.5
0°-90°	10704.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10704.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5346	5346	5346	5346	5346	
5°	5392	5542	5390	5816	5392	513
15°	5275	4790	5287	4942	5275	1492
25°	5059	4464	5066	4422	5059	2334
35°	4706	970	4716	1012	4706	2949
45°	4265	943	4280	978	4265	3289
55°	3697	686	3726	696	3697	3302
65°	2903	461	2896	453	2903	2855
75°	1703	233	1715	223	1703	1781
85°	306	74	323	56	306	421
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°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5387.5	5407.1	5421.8	5431.5	5436.4	5436.4	5438.9	5441.3	5473.2	5487.9	5497.7
5°	5392.4	5412.0	5441.3	5480.5	5514.8	5544.2	5568.7	5603.0	5637.3	5674.1	5686.3
7.5°	5370.3	5394.8	5453.6	5524.6	5590.8	5637.3	5669.2	5691.2	5708.4	5710.8	5723.1
10°	5350.7	5394.8	5475.6	5568.7	5652.0	5708.4	5708.4	5696.1	5713.3	5647.1	5581.0
12.5°	5316.4	5365.4	5475.6	5598.1	5676.5	5698.6	5688.8	5639.8	5539.3	5458.5	5421.8
15°	5274.8	5340.9	5478.1	5615.3	5681.4	5688.8	5595.7	5470.7	5394.8	5345.8	5284.6
17.5°	5228.2	5316.4	5480.5	5617.7	5642.2	5607.9	5431.5	5353.2	5274.8	5159.6	5076.3
20°	5184.1	5269.9	5460.9	5583.4	5598.1	5443.8	5306.6	5223.3	5091.0	4990.6	4953.8
22.5°	5115.5	5216.0	5443.8	5536.9	5480.5	5301.7	5169.4	5037.1	4917.1	4887.7	4843.6
25°	5059.2	5164.5	5404.6	5480.5	5331.1	5171.9	5017.5	4863.2	4806.8	4765.2	4726.0
27.5°	4983.2	5113.1	5353.2	5377.7	5171.9	5032.2	4806.8	4738.2	4686.8	4640.2	4623.1
30°	4899.9	5059.2	5282.1	5235.6	5039.6	4833.8	4667.2	4603.5	4566.7	4517.7	4498.1
32.5°	4804.4	4978.3	5203.7	5071.4	4897.5	4640.2	4532.4	4483.4	4434.4	4397.7	4275.2
35°	4706.4	4907.3	5110.6	4914.6	4726.0	4493.2	4397.7	4353.6	4307.0	4172.3	4044.9
37.5°	4605.9	4828.9	4997.9	4745.6	4498.1	4341.3	4260.5	4211.5	4106.1	3934.6	3870.9
40°	4490.8	4733.3	4853.4	4571.6	4299.7	4187.0	4111.0	4062.0	3824.4	3748.4	3728.8
42.5°	4375.6	4640.2	4677.0	4402.6	4135.5	4022.8	3959.1	3797.4	3635.7	3596.5	3603.9
45°	4265.4	4539.8	4483.4	4162.5	3964.0	3870.9	3763.1	3540.2	3454.4	3474.0	3478.9
47.5°	4133.1	4419.7	4280.1	3922.4	3787.6	3694.5	3454.4	3319.7	3307.4	3334.4	3349.1
50°	3991.0	4285.0	4064.5	3704.3	3596.5	3486.3	3214.3	3145.7	3160.4	3187.4	3204.5
52.5°	3858.7	4133.1	3841.5	3501.0	3407.9	3155.5	2971.8	2984.0	3008.5	3040.4	3050.2
55°	3697.0	3949.3	3603.9	3295.2	3207.0	2876.2	2792.9	2822.3	2846.8	2873.8	2893.4
57.5°	3527.9	3738.6	3322.1	3064.9	2922.8	2628.8	2636.2	2655.8	2672.9	2704.8	1117.2
60°	3334.4	3498.5	3013.4	2851.7	2570.0	2432.8	2440.2	2474.5	2491.6	1391.6	769.3
62.5°	3133.5	3219.2	2734.1	2609.2	2246.6	2236.8	2271.1	2285.8	1555.7	735.0	720.3
65°	2903.2	2886.0	2459.8	2261.3	2026.1	2035.9	2072.7	1999.2	688.4	688.4	683.5
67.5°	2648.4	2545.5	2192.7	1871.8	1813.0	1835.0	1874.2	654.1	637.0	641.9	624.7
70°	2356.9	2212.3	1915.9	1585.1	1604.7	1626.8	632.1	592.9	585.5	573.3	539.0
72.5°	2048.2	1849.7	1568.0	1376.9	1389.1	872.2	553.7	534.1	509.6	485.1	448.3
75°	1702.7	1445.5	1151.5	1151.5	1168.6	497.3	482.6	450.8	423.8	392.0	369.9
77.5°	1335.2	1112.3	894.2	928.5	453.2	416.5	389.5	355.2	333.2	313.6	301.3
80°	977.5	776.6	673.7	602.7	352.8	316.0	289.1	269.5	259.7	247.4	232.7
82.5°	641.9	467.9	467.9	284.2	247.4	218.0	210.7	196.0	186.2	178.8	171.5
85°	306.2	271.9	205.8	173.9	154.3	139.6	134.7	127.4	127.4	124.9	122.5
87.5°	112.7	122.5	90.6	88.2	83.3	80.8	83.3	83.3	85.7	83.3	80.8
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°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5522.2	5541.8	5556.5	5581.0	5612.8	5639.8	5664.3	5698.6	5752.5	5767.2	5779.4
5°	5686.3	5693.7	5710.8	5730.4	5735.3	5747.6	5745.1	5759.8	5767.2	5784.3	5747.6
7.5°	5696.1	5656.9	5610.4	5568.7	5539.3	5512.4	5495.2	5522.2	5536.9	5549.1	5512.4
10°	5490.3	5443.8	5416.9	5392.4	5363.0	5321.3	5265.0	5277.2	5272.3	5272.3	5260.1
12.5°	5360.5	5294.4	5225.8	5164.5	5137.6	5135.1	5137.6	5164.5	5164.5	5162.1	5147.4
15°	5157.2	5093.5	5059.2	5044.5	5044.5	5037.1	5037.1	5066.5	5059.2	5059.2	5051.8
17.5°	5022.4	4978.3	4953.8	4936.7	4929.3	4941.6	4956.3	4968.5	4971.0	4961.2	4922.0
20°	4912.2	4870.5	4841.1	4846.0	4843.6	4850.9	4858.3	4816.6	4765.2	4696.6	4664.7
22.5°	4797.0	4765.2	4743.1	4743.1	4713.7	4667.2	4598.6	4583.9	4576.5	4544.7	4517.7
25°	4686.8	4650.0	4618.2	4520.2	4458.9	4466.3	4454.0	4429.5	4427.1	4424.6	4434.4
27.5°	4576.5	4481.0	4358.5	4343.8	4319.3	4316.8	4331.5	4343.8	4343.8	4353.6	4365.8
30°	4348.7	4238.4	4216.4	4189.4	4199.2	4233.5	4240.9	4258.0	4262.9	4280.1	4289.9
32.5°	4140.4	4091.4	4071.8	4084.1	4115.9	4145.3	4162.5	4169.8	4182.1	4196.8	4209.0
35°	3971.4	3956.7	3973.8	4000.8	4032.6	4057.1	4071.8	4086.5	4098.8	4111.0	4120.8
37.5°	3846.4	3856.2	3880.7	3915.0	3946.9	3966.5	3978.7	3995.9	4013.0	4027.7	3968.9
40°	3728.8	3753.3	3780.3	3817.0	3844.0	3863.6	3875.8	3897.9	3750.9	1697.8	931.0
42.5°	3625.9	3652.9	3672.5	3701.9	3731.3	3746.0	3638.2	1624.3	918.7	913.8	926.1
45°	3501.0	3523.0	3554.9	3576.9	3603.9	2366.7	904.0	913.8	899.1	908.9	913.8
47.5°	3373.6	3407.9	3425.0	3268.2	972.6	899.1	889.3	899.1	889.3	901.6	894.2
50°	3229.0	3270.7	2327.5	879.5	872.2	867.3	877.1	872.2	879.5	889.3	869.7
52.5°	3082.0	1908.5	852.6	847.7	852.6	847.7	864.8	852.6	855.0	845.2	820.7
55°	1043.7	825.6	818.3	815.8	830.5	830.5	830.5	810.9	798.7	774.2	757.0
57.5°	798.7	798.7	796.2	798.7	793.8	788.9	766.8	749.7	732.5	698.2	688.4
60°	757.0	757.0	757.0	757.0	735.0	725.2	690.9	676.2	646.8	629.6	619.8
62.5°	722.7	717.8	695.8	688.4	663.9	637.0	617.4	602.7	573.3	563.5	556.1
65°	673.7	656.6	629.6	600.2	588.0	558.6	548.8	526.7	512.0	504.7	499.8
67.5°	592.9	568.4	546.3	526.7	504.7	494.9	482.6	465.5	455.7	450.8	445.9
70°	507.1	490.0	467.9	455.7	441.0	433.6	416.5	411.6	404.2	396.9	389.5
72.5°	423.8	414.0	404.2	387.1	382.2	377.3	360.1	350.3	340.5	330.7	325.8
75°	355.2	347.9	343.0	328.3	320.9	306.2	294.0	286.6	279.3	271.9	267.0
77.5°	291.5	286.6	271.9	262.1	257.2	245.0	240.1	242.5	237.6	227.8	222.9
80°	227.8	222.9	210.7	210.7	205.8	200.9	196.0	191.1	186.2	178.8	173.9
82.5°	173.9	169.0	164.1	159.2	154.3	151.9	149.4	144.5	139.6	134.7	132.3
85°	122.5	120.0	117.6	115.1	112.7	110.2	107.8	102.9	98.0	95.5	93.1
87.5°	83.3	80.8	78.4	75.9	73.5	71.0	68.6	66.1	61.2	58.8	56.3
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°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5779.4	5791.7	5779.4	5752.5	5735.3	5728.0	5742.7	5742.7	5752.5	5764.7	5767.2
5°	5688.8	5659.4	5625.1	5590.8	5573.6	5563.8	5536.9	5541.8	5549.1	5554.0	5558.9
7.5°	5463.4	5424.2	5377.7	5333.6	5316.4	5301.7	5269.9	5269.9	5269.9	5272.3	5287.0
10°	5233.1	5216.0	5196.4	5167.0	5144.9	5137.6	5110.6	5118.0	5113.1	5120.4	5137.6
12.5°	5125.3	5105.7	5088.6	5059.2	5034.7	5024.9	5012.6	5020.0	5017.5	5029.8	5044.5
15°	5027.3	5017.5	4997.9	4975.9	4953.8	4934.2	4890.1	4875.4	4865.6	4853.4	4870.5
17.5°	4865.6	4797.0	4750.5	4716.2	4691.7	4674.5	4662.3	4662.3	4669.6	4677.0	4691.7
20°	4645.1	4625.5	4603.5	4566.7	4542.2	4532.4	4525.1	4525.1	4537.3	4547.1	4574.1
22.5°	4493.2	4490.8	4483.4	4466.3	4454.0	4454.0	4456.5	4461.4	4478.5	4493.2	4520.2
25°	4422.2	4432.0	4427.1	4417.3	4409.9	4412.4	4407.5	4412.4	4429.5	4444.2	4466.3
27.5°	4365.8	4380.5	4375.6	4360.9	4348.7	4353.6	4360.9	4356.0	4370.7	4387.9	4405.0
30°	4289.9	4292.3	4302.1	4285.0	4280.1	4287.4	4289.9	4294.8	4309.5	4321.7	4336.4
32.5°	4204.1	4223.7	4221.3	4204.1	4204.1	4211.5	4213.9	4049.8	3743.5	3224.1	3082.0
35°	4120.8	4142.9	4106.1	3461.8	2396.1	1278.9	987.3	953.0	960.4	965.3	970.2
37.5°	3047.7	1445.5	921.2	928.5	935.9	943.2	950.6	957.9	965.3	972.6	975.1
40°	916.3	913.8	921.2	931.0	938.3	943.2	953.0	960.4	967.7	975.1	977.5
42.5°	906.5	911.4	918.7	928.5	938.3	948.1	955.5	965.3	970.2	975.1	977.5
45°	901.6	911.4	921.2	928.5	935.9	940.8	945.7	948.1	945.7	945.7	950.6
47.5°	894.2	904.0	906.5	904.0	906.5	904.0	904.0	904.0	896.7	894.2	894.2
50°	867.3	867.3	862.4	852.6	850.1	847.7	842.8	840.3	830.5	828.1	828.1
52.5°	810.9	808.5	801.1	788.9	784.0	779.1	776.6	774.2	764.4	759.5	761.9
55°	744.8	739.9	732.5	717.8	715.4	710.5	708.0	705.6	695.8	700.7	693.3
57.5°	683.5	673.7	663.9	661.5	651.7	649.2	646.8	644.3	637.0	639.4	634.5
60°	610.0	607.6	602.7	592.9	592.9	590.4	590.4	585.5	580.6	578.2	578.2
62.5°	556.1	548.8	543.9	543.9	536.5	536.5	536.5	531.6	526.7	529.2	526.7
65°	497.3	494.9	492.4	487.5	487.5	485.1	485.1	480.2	472.8	475.3	470.4
67.5°	448.3	443.4	438.5	436.1	426.3	421.4	418.9	416.5	406.7	409.1	404.2
70°	387.1	379.7	374.8	369.9	362.6	357.7	357.7	352.8	345.4	347.9	343.0
72.5°	323.4	318.5	313.6	311.1	303.8	301.3	298.9	296.4	289.1	291.5	289.1
75°	269.5	269.5	267.0	264.6	257.2	249.9	245.0	242.5	237.6	240.1	235.2
77.5°	222.9	218.0	213.1	213.1	205.8	200.9	196.0	196.0	196.0	193.5	191.1
80°	173.9	169.0	169.0	166.6	161.7	156.8	154.3	154.3	151.9	151.9	149.4
82.5°	132.3	127.4	124.9	124.9	120.0	117.6	115.1	112.7	112.7	112.7	110.2
85°	93.1	88.2	85.7	85.7	80.8	78.4	78.4	75.9	75.9	73.5	73.5
87.5°	56.3	53.9	51.4	51.4	46.5	44.1	44.1	44.1	41.6	41.6	39.2
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5767.2	5767.2	5750.0	5754.9	5747.6	5757.4	5745.1	5745.1	5759.8	5759.8	5769.6
5°	5561.4	5549.1	5546.7	5541.8	5517.3	5527.1	5514.8	5502.6	5519.7	5519.7	5541.8
7.5°	5279.7	5257.6	5267.4	5252.7	5238.0	5216.0	5223.3	5213.5	5225.8	5242.9	5265.0
10°	5135.1	5115.5	5127.8	5113.1	5120.4	5088.6	5091.0	5093.5	5105.7	5110.6	5130.2
12.5°	5042.0	5037.1	5032.2	5027.3	5032.2	5015.1	5005.3	5007.7	5012.6	5015.1	5029.8
15°	4846.0	4814.2	4824.0	4789.7	4792.1	4794.6	4775.0	4794.6	4792.1	4824.0	4853.4
17.5°	4686.8	4686.8	4669.6	4654.9	4645.1	4642.7	4628.0	4637.8	4628.0	4647.6	4654.9
20°	4576.5	4574.1	4571.6	4564.3	4539.8	4542.2	4549.6	4527.5	4525.1	4522.6	4537.3
22.5°	4525.1	4527.5	4517.7	4517.7	4495.7	4500.6	4503.0	4478.5	4481.0	4473.6	4481.0
25°	4471.2	4476.1	4463.8	4463.8	4458.9	4456.5	4444.2	4449.1	4434.4	4422.2	4434.4
27.5°	4407.5	4417.3	4407.5	4412.4	4402.6	4397.7	4390.3	4385.4	4370.7	4368.3	4375.6
30°	4348.7	4353.6	4351.1	4338.9	4336.4	4321.7	4329.1	4314.4	4299.7	4302.1	4307.0
32.5°	2229.5	2129.0	1641.5	1482.2	1467.5	1521.4	1803.2	2195.2	2844.4	3474.0	3927.3
35°	972.6	972.6	972.6	970.2	970.2	967.7	965.3	962.8	960.4	957.9	955.5
37.5°	977.5	977.5	977.5	977.5	975.1	972.6	972.6	967.7	965.3	962.8	960.4
40°	980.0	982.4	982.4	982.4	980.0	980.0	977.5	972.6	970.2	965.3	960.4
42.5°	977.5	980.0	980.0	977.5	977.5	975.1	975.1	972.6	970.2	967.7	965.3
45°	945.7	948.1	943.2	943.2	940.8	940.8	940.8	940.8	940.8	943.2	943.2
47.5°	889.3	889.3	886.9	884.4	884.4	882.0	884.4	882.0	886.9	889.3	894.2
50°	823.2	823.2	818.3	815.8	815.8	815.8	815.8	818.3	820.7	825.6	830.5
52.5°	754.6	754.6	752.1	749.7	747.2	747.2	754.6	752.1	754.6	757.0	764.4
55°	688.4	690.9	686.0	686.0	683.5	683.5	683.5	686.0	688.4	690.9	698.2
57.5°	632.1	632.1	627.2	627.2	627.2	624.7	632.1	627.2	629.6	632.1	637.0
60°	575.7	573.3	573.3	570.8	570.8	570.8	575.7	573.3	573.3	575.7	580.6
62.5°	524.3	524.3	521.8	521.8	519.4	519.4	524.3	521.8	521.8	524.3	526.7
65°	465.5	465.5	463.0	460.6	467.9	460.6	467.9	463.0	467.9	470.4	475.3
67.5°	399.3	399.3	399.3	396.9	396.9	401.8	404.2	399.3	401.8	406.7	409.1
70°	340.5	340.5	338.1	338.1	338.1	343.0	345.4	340.5	343.0	345.4	350.3
72.5°	289.1	284.2	284.2	281.7	286.6	286.6	289.1	286.6	289.1	289.1	294.0
75°	237.6	232.7	232.7	232.7	237.6	235.2	237.6	235.2	237.6	237.6	240.1
77.5°	191.1	188.6	186.2	186.2	191.1	191.1	191.1	188.6	191.1	193.5	196.0
80°	149.4	147.0	144.5	144.5	149.4	149.4	149.4	151.9	149.4	151.9	154.3
82.5°	110.2	107.8	105.3	110.2	110.2	110.2	110.2	112.7	110.2	112.7	115.1
85°	73.5	71.0	68.6	73.5	73.5	73.5	73.5	75.9	73.5	75.9	78.4
87.5°	39.2	36.7	36.7	39.2	39.2	39.2	41.6	41.6	41.6	44.1	44.1
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5784.3	5791.7	5789.2	5774.5	5759.8	5742.7	5730.4	5732.9	5757.4	5764.7	5742.7
5°	5541.8	5588.3	5588.3	5620.2	5603.0	5588.3	5598.1	5652.0	5679.0	5720.6	5735.3
7.5°	5291.9	5314.0	5311.5	5343.4	5338.5	5338.5	5345.8	5416.9	5451.1	5485.4	5495.2
10°	5152.3	5174.3	5171.9	5174.3	5167.0	5149.8	5149.8	5181.7	5211.1	5228.2	5233.1
12.5°	5051.8	5064.1	5061.6	5061.6	5056.7	5042.0	5039.6	5066.5	5098.4	5120.4	5122.9
15°	4902.4	4936.7	4944.0	4975.9	4968.5	4948.9	4953.8	4975.9	4995.5	5015.1	5007.7
17.5°	4679.4	4696.6	4699.0	4711.3	4706.4	4706.4	4735.8	4816.6	4870.5	4917.1	4922.0
20°	4552.0	4564.3	4559.4	4586.3	4574.1	4571.6	4579.0	4613.3	4637.8	4659.8	4699.0
22.5°	4490.8	4500.6	4493.2	4495.7	4473.6	4454.0	4449.1	4476.1	4503.0	4532.4	4532.4
25°	4439.3	4446.7	4444.2	4439.3	4422.2	4395.2	4390.3	4395.2	4405.0	4407.5	4390.3
27.5°	4378.1	4383.0	4383.0	4385.4	4363.4	4338.9	4334.0	4329.1	4338.9	4336.4	4309.5
30°	4314.4	4307.0	4309.5	4311.9	4292.3	4270.3	4260.5	4258.0	4267.8	4265.4	4238.4
32.5°	4162.5	4218.8	4223.7	4228.6	4211.5	4191.9	4182.1	4174.7	4179.6	4177.2	4152.7
35°	953.0	970.2	1188.2	2690.1	3652.9	4044.9	4086.5	4076.7	4079.2	4079.2	4059.6
37.5°	955.5	953.0	950.6	943.2	935.9	931.0	1609.6	3432.4	3976.3	3978.7	3961.6
40°	955.5	953.0	950.6	945.7	935.9	928.5	916.3	906.5	928.5	2043.3	3738.6
42.5°	960.4	955.5	950.6	945.7	935.9	926.1	916.3	904.0	911.4	906.5	894.2
45°	945.7	943.2	943.2	940.8	935.9	926.1	913.8	899.1	891.8	899.1	886.9
47.5°	899.1	901.6	908.9	911.4	911.4	913.8	906.5	896.7	884.4	891.8	877.1
50°	835.4	840.3	842.8	855.0	859.9	869.7	872.2	872.2	869.7	879.5	869.7
52.5°	766.8	771.7	784.0	788.9	793.8	808.5	813.4	820.7	825.6	840.3	850.1
55°	700.7	703.1	708.0	717.8	725.2	737.4	744.8	752.1	764.4	771.7	801.1
57.5°	639.4	641.9	651.7	654.1	659.0	668.8	676.2	686.0	695.8	700.7	735.0
60°	580.6	583.1	590.4	592.9	595.3	605.1	612.5	619.8	627.2	632.1	656.6
62.5°	529.2	529.2	536.5	536.5	539.0	546.3	551.2	556.1	563.5	565.9	578.2
65°	477.7	480.2	485.1	485.1	487.5	492.4	494.9	497.3	504.7	504.7	514.5
67.5°	414.0	416.5	423.8	428.7	431.2	441.0	443.4	445.9	450.8	453.2	458.1
70°	352.8	355.2	362.6	365.0	367.5	374.8	379.7	387.1	394.4	401.8	406.7
72.5°	296.4	298.9	306.2	306.2	313.6	316.0	320.9	323.4	330.7	335.6	343.0
75°	242.5	245.0	252.3	252.3	259.7	262.1	264.6	267.0	271.9	276.8	281.7
77.5°	198.4	198.4	208.2	213.1	218.0	218.0	220.5	220.5	220.5	222.9	227.8
80°	156.8	156.8	164.1	169.0	173.9	173.9	176.4	178.8	181.3	181.3	183.7
82.5°	117.6	117.6	124.9	127.4	132.3	132.3	132.3	134.7	137.2	134.7	139.6
85°	80.8	80.8	85.7	88.2	93.1	93.1	93.1	95.5	98.0	95.5	98.0
87.5°	46.5	49.0	51.4	53.9	56.3	58.8	58.8	58.8	61.2	61.2	63.7
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5718.2	5688.8	5686.3	5652.0	5642.2	5644.7	5617.7	5607.9	5563.8	5554.0	5507.5
5°	5740.2	5754.9	5747.6	5745.1	5752.5	5747.6	5728.0	5718.2	5710.8	5691.2	5652.0
7.5°	5497.7	5507.5	5514.8	5546.7	5573.6	5620.2	5669.2	5701.0	5725.5	5730.4	5698.6
10°	5250.3	5296.8	5328.7	5377.7	5416.9	5443.8	5473.2	5500.1	5571.2	5642.2	5683.9
12.5°	5122.9	5135.1	5132.7	5159.6	5186.6	5257.6	5326.2	5365.4	5419.3	5451.1	5527.1
15°	5015.1	5017.5	5024.9	5044.5	5059.2	5083.7	5115.5	5174.3	5282.1	5331.1	5372.8
17.5°	4917.1	4917.1	4922.0	4939.1	4958.7	4980.8	5000.4	5024.9	5078.8	5159.6	5262.5
20°	4760.3	4828.9	4836.2	4833.8	4843.6	4885.2	4890.1	4934.2	4961.2	4993.0	5093.5
22.5°	4527.5	4569.2	4628.0	4718.6	4752.9	4772.5	4787.2	4806.8	4848.5	4885.2	4926.9
25°	4400.1	4427.1	4444.2	4471.2	4542.2	4657.4	4679.4	4701.5	4728.4	4755.4	4806.8
27.5°	4287.4	4285.0	4297.2	4321.7	4341.3	4402.6	4510.4	4596.1	4601.0	4640.2	4684.3
30°	4206.6	4191.9	4174.7	4169.8	4196.8	4228.6	4260.5	4395.2	4488.3	4507.9	4554.5
32.5°	4130.6	4106.1	4081.6	4062.0	4044.9	4071.8	4091.4	4150.2	4270.3	4383.0	4407.5
35°	4037.5	4013.0	3983.6	3961.6	3934.6	3932.2	3929.7	3986.1	4025.3	4160.0	4277.6
37.5°	3942.0	3915.0	3890.5	3866.0	3839.1	3819.5	3807.2	3821.9	3858.7	3917.5	4113.5
40°	3841.5	3809.7	3785.2	3765.6	3728.8	3714.1	3689.6	3679.8	3682.3	3733.7	3836.6
42.5°	2295.6	3660.2	3672.5	3650.4	3618.6	3599.0	3572.0	3559.8	3535.3	3559.8	3618.6
45°	884.4	894.2	2677.8	3537.7	3498.5	3474.0	3449.5	3437.3	3410.3	3390.7	3444.6
47.5°	867.3	877.1	857.5	1215.2	3339.3	3346.6	3317.2	3305.0	3278.0	3263.3	3248.6
50°	855.0	862.4	847.7	852.6	835.4	3060.0	3182.5	3167.8	3138.4	3121.2	3091.8
52.5°	842.8	842.8	833.0	820.7	815.8	818.3	2574.9	3028.1	2993.8	2976.7	2937.5
55°	803.6	808.5	818.3	798.7	793.8	791.3	784.0	2452.4	2834.6	2815.0	2780.7
57.5°	744.8	754.6	781.5	776.6	776.6	757.0	752.1	752.1	2276.0	2650.9	2616.6
60°	676.2	686.0	715.4	725.2	732.5	727.6	722.7	720.3	710.5	2398.5	2442.6
62.5°	605.1	614.9	624.7	656.6	666.4	678.6	693.3	686.0	676.2	676.2	2258.9
65°	529.2	543.9	548.8	578.2	590.4	612.5	624.7	641.9	637.0	634.5	646.8
67.5°	463.0	480.2	482.6	494.9	516.9	526.7	541.4	573.3	588.0	592.9	597.8
70°	406.7	416.5	423.8	428.7	443.4	445.9	472.8	494.9	516.9	541.4	548.8
72.5°	350.3	357.7	372.4	367.5	372.4	382.2	396.9	411.6	433.6	467.9	490.0
75°	286.6	291.5	301.3	306.2	316.0	323.4	333.2	345.4	365.0	382.2	411.6
77.5°	230.3	232.7	240.1	242.5	252.3	259.7	276.8	284.2	296.4	308.7	325.8
80°	186.2	186.2	188.6	188.6	196.0	203.3	215.6	222.9	237.6	247.4	247.4
82.5°	142.1	142.1	149.4	149.4	154.3	154.3	161.7	161.7	169.0	173.9	178.8
85°	100.4	102.9	107.8	105.3	110.2	107.8	112.7	117.6	120.0	117.6	115.1
87.5°	66.1	66.1	71.0	68.6	71.0	71.0	75.9	75.9	78.4	78.4	75.9
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5490.3	5453.6	5431.5	5404.6	5397.3	5389.9	5399.7	5399.7	5385.0	5372.8	5350.7
5°	5617.7	5578.5	5536.9	5492.8	5451.1	5407.1	5389.9	5387.5	5360.5	5345.8	5338.5
7.5°	5683.9	5664.3	5617.7	5556.5	5492.8	5414.4	5380.1	5360.5	5333.6	5328.7	5328.7
10°	5691.2	5669.2	5644.7	5600.6	5527.1	5424.2	5358.1	5318.9	5294.4	5311.5	5343.4
12.5°	5620.2	5661.8	5639.8	5610.4	5551.6	5426.7	5331.1	5272.3	5265.0	5309.1	5392.4
15°	5438.9	5561.4	5622.6	5593.2	5546.7	5421.8	5287.0	5218.4	5218.4	5309.1	5416.9
17.5°	5301.7	5397.3	5546.7	5571.2	5517.3	5412.0	5245.4	5164.5	5186.6	5318.9	5434.0
20°	5189.0	5247.8	5392.4	5529.5	5478.1	5389.9	5184.1	5100.8	5144.9	5304.2	5458.5
22.5°	5012.6	5130.2	5218.4	5421.8	5438.9	5348.3	5122.9	5022.4	5110.6	5304.2	5446.2
25°	4841.1	4983.2	5076.3	5274.8	5380.1	5296.8	5066.5	4939.1	5073.9	5296.8	5436.4
27.5°	4721.1	4787.2	4956.3	5098.4	5291.9	5228.2	4990.6	4848.5	5027.3	5257.6	5380.1
30°	4593.7	4637.8	4804.4	4939.1	5174.3	5149.8	4912.2	4748.0	4968.5	5220.9	5233.1
32.5°	4454.0	4503.0	4588.8	4784.8	5010.2	5076.3	4824.0	4647.6	4904.8	5164.5	5061.6
35°	4311.9	4348.7	4417.3	4628.0	4819.1	4966.1	4716.2	4532.4	4860.7	5078.8	4897.5
37.5°	4169.8	4209.0	4267.8	4444.2	4618.2	4863.2	4623.1	4417.3	4779.9	4926.9	4726.0
40°	4035.1	4057.1	4118.4	4228.6	4451.6	4757.8	4517.7	4297.2	4696.6	4733.3	4493.2
42.5°	3787.6	3897.9	3954.2	4042.4	4262.9	4613.3	4395.2	4169.8	4603.5	4539.8	4260.5
45°	3520.6	3760.7	3785.2	3873.4	4096.3	4458.9	4280.1	4044.9	4515.3	4373.2	4040.0
47.5°	3302.5	3476.5	3618.6	3692.1	3897.9	4277.6	4172.3	3939.5	4383.0	4162.5	3824.4
50°	3109.0	3202.1	3459.3	3513.2	3660.2	4059.6	4044.9	3817.0	4199.2	3897.9	3613.7
52.5°	2920.3	2986.5	3219.2	3334.4	3454.4	3824.4	3893.0	3697.0	3998.3	3633.3	3400.5
55°	2756.2	2778.2	2905.6	3148.2	3256.0	3586.7	3726.4	3557.3	3743.5	3380.9	3194.7
57.5°	2587.2	2567.6	2660.7	2971.8	3050.2	3344.2	3550.0	3415.2	3537.7	3123.7	2981.6
60°	2410.8	2383.8	2423.0	2628.8	2832.1	3104.1	3341.7	3258.4	3287.8	2868.9	2743.9
62.5°	2227.0	2200.1	2187.8	2317.7	2619.0	2856.6	3131.0	3084.5	2981.6	2636.2	2450.0
65°	2035.9	2009.0	1989.4	2040.8	2383.8	2535.7	2895.8	2883.6	2646.0	2391.2	2062.9
67.5°	619.8	1827.7	1786.0	1783.6	2009.0	2244.2	2641.1	2621.5	2307.9	2129.0	1776.2
70°	558.6	1482.2	1575.3	1553.3	1651.3	1947.7	2349.5	2334.8	1979.6	1707.6	1570.4
72.5°	512.0	524.3	1391.6	1367.1	1389.1	1656.2	2045.7	2006.5	1678.2	1347.5	1357.3
75°	438.5	460.6	480.2	1153.9	1124.5	1372.0	1715.0	1653.7	1384.2	1112.3	1134.3
77.5°	357.7	384.6	399.3	840.3	908.9	977.5	1369.5	1288.7	953.0	889.3	423.8
80°	267.0	289.1	313.6	335.6	690.9	683.5	1016.7	935.9	663.9	553.7	330.7
82.5°	196.0	203.3	218.0	242.5	274.4	458.1	654.1	575.7	460.6	252.3	227.8
85°	122.5	132.3	139.6	147.0	166.6	274.4	323.4	257.2	193.5	154.3	144.5
87.5°	78.4	78.4	75.9	78.4	80.8	98.0	110.2	105.3	83.3	78.4	78.4
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5326.2	5291.9	5291.9	5282.1	5289.5	5289.5	5287.0	5289.5	5306.6	5316.4	5333.6
5°	5323.8	5314.0	5336.0	5363.0	5394.8	5434.0	5443.8	5478.1	5509.9	5551.6	5595.7
7.5°	5355.6	5389.9	5431.5	5475.6	5539.3	5585.9	5627.5	5669.2	5698.6	5737.8	5762.3
10°	5402.2	5470.7	5541.8	5598.1	5666.7	5705.9	5732.9	5737.8	5696.1	5630.0	5576.1
12.5°	5468.3	5549.1	5615.3	5669.2	5701.0	5686.3	5607.9	5527.1	5480.5	5412.0	5316.4
15°	5524.6	5598.1	5666.7	5644.7	5558.9	5478.1	5416.9	5321.3	5228.2	5164.5	5122.9
17.5°	5549.1	5620.2	5595.7	5480.5	5399.7	5306.6	5181.7	5108.2	5046.9	4997.9	4973.4
20°	5563.8	5551.6	5419.3	5336.0	5179.2	5093.5	5012.6	4944.0	4897.5	4873.0	4868.1
22.5°	5524.6	5375.2	5262.5	5113.1	4997.9	4926.9	4863.2	4806.8	4775.0	4755.4	4743.1
25°	5394.8	5220.9	5054.3	4936.7	4838.7	4777.4	4728.4	4681.9	4642.7	4632.9	4608.4
27.5°	5213.5	5071.4	4850.9	4760.3	4674.5	4645.1	4591.2	4544.7	4510.4	4481.0	4402.6
30°	5064.1	4838.7	4679.4	4596.1	4544.7	4510.4	4449.1	4400.1	4341.3	4233.5	4189.4
32.5°	4880.3	4657.4	4505.5	4458.9	4395.2	4365.8	4297.2	4189.4	4098.8	4054.7	4052.2
35°	4642.7	4458.9	4348.7	4307.0	4255.6	4206.6	4064.5	3966.5	3922.4	3927.3	3964.0
37.5°	4444.2	4280.1	4209.0	4150.2	4091.4	3966.5	3846.4	3799.9	3812.1	3836.6	3853.8
40°	4243.3	4118.4	4037.5	3991.0	3858.7	3736.2	3672.5	3689.6	3711.7	3728.8	3750.9
42.5°	4047.3	3959.1	3878.3	3787.6	3606.3	3540.2	3554.9	3576.9	3596.5	3621.0	3643.1
45°	3861.1	3782.7	3689.6	3483.8	3393.2	3410.3	3432.4	3449.5	3478.9	3496.1	3518.1
47.5°	3684.7	3601.4	3437.3	3256.0	3246.2	3280.5	3300.1	3322.1	3344.2	3300.1	1820.3
50°	3486.3	3400.5	3150.6	3082.0	3104.1	3135.9	3160.4	3182.5	2834.6	1127.0	867.3
52.5°	3290.3	3072.2	2913.0	2932.6	2954.6	2991.4	3008.5	2234.4	889.3	847.7	850.1
55°	3072.2	2792.9	2746.4	2770.9	2790.5	2827.2	1874.2	820.7	815.8	813.4	833.0
57.5°	2729.2	2560.2	2579.8	2604.3	2623.9	1852.2	798.7	793.8	796.2	798.7	801.1
60°	2423.0	2386.3	2408.3	2430.4	1719.9	771.7	757.0	759.5	769.3	761.9	742.3
62.5°	2180.5	2209.9	2231.9	1955.1	732.5	725.2	732.5	725.2	708.0	695.8	671.3
65°	1994.3	2023.7	2040.8	688.4	686.0	695.8	688.4	663.9	637.0	602.7	595.3
67.5°	1798.3	1827.7	654.1	637.0	646.8	634.5	605.1	575.7	556.1	526.7	514.5
70°	1594.9	683.5	592.9	590.4	573.3	553.7	521.8	492.4	467.9	455.7	443.4
72.5°	1151.5	541.4	534.1	514.5	485.1	458.1	431.2	414.0	401.8	394.4	387.1
75°	480.2	470.4	448.3	414.0	384.6	372.4	352.8	340.5	335.6	320.9	316.0
77.5°	401.8	382.2	350.3	325.8	308.7	301.3	286.6	271.9	264.6	262.1	252.3
80°	308.7	281.7	267.0	254.8	249.9	232.7	215.6	208.2	203.3	200.9	193.5
82.5°	210.7	200.9	191.1	173.9	173.9	166.6	159.2	154.3	149.4	149.4	144.5
85°	137.2	129.8	127.4	120.0	120.0	115.1	112.7	110.2	107.8	105.3	102.9
87.5°	78.4	78.4	80.8	78.4	78.4	75.9	73.5	71.0	68.6	68.6	63.7
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5355.6	5380.1	5385.0	5468.3	5514.8	5512.4	5497.7	5541.8	5514.8	5500.1	5514.8
5°	5639.8	5669.2	5693.7	5784.3	5816.2	5830.9	5828.4	5852.9	5833.3	5816.2	5816.2
7.5°	5779.4	5789.2	5799.0	5777.0	5762.3	5737.8	5701.0	5647.1	5620.2	5590.8	5554.0
10°	5549.1	5517.3	5529.5	5485.4	5448.7	5421.8	5387.5	5343.4	5306.6	5279.7	5238.0
12.5°	5267.4	5265.0	5269.9	5277.2	5240.5	5218.4	5191.5	5159.6	5132.7	5103.3	5069.0
15°	5095.9	5098.4	5118.0	5110.6	5098.4	5086.1	5056.7	5046.9	5022.4	4990.6	4971.0
17.5°	4973.4	4985.7	5005.3	4995.5	4975.9	4963.6	4941.6	4919.5	4897.5	4873.0	4843.6
20°	4865.6	4877.9	4890.1	4877.9	4841.1	4824.0	4794.6	4726.0	4677.0	4628.0	4583.9
22.5°	4748.0	4755.4	4745.6	4706.4	4613.3	4569.2	4534.9	4515.3	4473.6	4446.7	4419.7
25°	4601.0	4559.4	4495.7	4451.6	4414.8	4395.2	4380.5	4378.1	4373.2	4368.3	4356.0
27.5°	4360.9	4346.2	4311.9	4294.8	4297.2	4304.6	4307.0	4314.4	4307.0	4297.2	4287.4
30°	4182.1	4189.4	4191.9	4196.8	4209.0	4216.4	4218.8	4228.6	4223.7	4216.4	4211.5
32.5°	4069.4	4086.5	4096.3	4111.0	4118.4	4130.6	4130.6	4145.3	4130.6	4128.2	4123.3
35°	3976.3	3991.0	3995.9	4017.9	4025.3	4037.5	4037.5	4049.8	4037.5	3912.6	3089.4
37.5°	3883.2	3897.9	3907.7	3927.3	3929.7	3937.1	3633.3	2658.2	1715.0	1327.9	1014.3
40°	3772.9	3790.1	3799.9	3807.2	2675.4	1697.8	1168.6	950.6	950.6	957.9	965.3
42.5°	3655.3	3667.6	2555.3	1487.1	926.1	923.6	931.0	938.3	945.7	955.5	965.3
45°	2873.8	1450.4	921.2	899.1	906.5	916.3	926.1	935.9	948.1	957.9	962.8
47.5°	943.2	884.4	896.7	886.9	899.1	911.4	921.2	931.0	933.4	935.9	933.4
50°	872.2	872.2	879.5	879.5	889.3	894.2	894.2	894.2	884.4	882.0	874.6
52.5°	842.8	862.4	852.6	857.5	852.6	845.2	837.9	830.5	815.8	810.9	801.1
55°	828.1	835.4	810.9	803.6	793.8	774.2	764.4	754.6	742.3	737.4	725.2
57.5°	793.8	776.6	749.7	737.4	720.3	700.7	690.9	683.5	671.3	666.4	659.0
60°	730.1	695.8	678.6	663.9	644.3	627.2	619.8	614.9	605.1	602.7	595.3
62.5°	651.7	622.3	607.6	588.0	573.3	563.5	556.1	553.7	543.9	543.9	539.0
65°	565.9	551.2	539.0	519.4	512.0	502.2	499.8	497.3	492.4	490.0	485.1
67.5°	497.3	487.5	470.4	460.6	455.7	448.3	443.4	438.5	428.7	423.8	416.5
70°	436.1	428.7	411.6	404.2	394.4	382.2	374.8	369.9	362.6	357.7	350.3
72.5°	377.3	355.2	343.0	335.6	328.3	316.0	313.6	308.7	301.3	298.9	291.5
75°	303.8	286.6	279.3	274.4	267.0	259.7	259.7	259.7	252.3	249.9	247.4
77.5°	242.5	232.7	227.8	222.9	220.5	215.6	208.2	205.8	198.4	198.4	196.0
80°	186.2	181.3	176.4	173.9	171.5	166.6	161.7	159.2	151.9	151.9	149.4
82.5°	137.2	134.7	132.3	129.8	127.4	124.9	117.6	115.1	110.2	110.2	107.8
85°	98.0	95.5	90.6	88.2	88.2	85.7	78.4	75.9	71.0	71.0	71.0
87.5°	61.2	58.8	56.3	53.9	51.4	49.0	44.1	41.6	41.6	36.7	34.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5485.4	5527.1	5522.2	5551.6	5558.9	5573.6	5578.5	5581.0	5544.2	5573.6	5576.1
5°	5808.8	5816.2	5821.1	5833.3	5845.6	5848.0	5835.8	5821.1	5826.0	5816.2	5791.7
7.5°	5549.1	5512.4	5505.0	5495.2	5490.3	5485.4	5463.4	5483.0	5460.9	5451.1	5416.9
10°	5230.7	5196.4	5193.9	5193.9	5201.3	5198.8	5193.9	5184.1	5203.7	5191.5	5184.1
12.5°	5064.1	5051.8	5059.2	5054.3	5073.9	5078.8	5073.9	5073.9	5069.0	5059.2	5064.1
15°	4963.6	4953.8	4961.2	4953.8	4968.5	4971.0	4958.7	4966.1	4953.8	4941.6	4936.7
17.5°	4831.3	4809.3	4792.1	4767.6	4770.1	4765.2	4750.5	4750.5	4738.2	4706.4	4708.8
20°	4576.5	4554.5	4544.7	4544.7	4556.9	4561.8	4559.4	4564.3	4552.0	4547.1	4527.5
22.5°	4417.3	4414.8	4419.7	4432.0	4451.6	4478.5	4481.0	4481.0	4481.0	4478.5	4454.0
25°	4360.9	4360.9	4365.8	4383.0	4397.7	4417.3	4422.2	4427.1	4422.2	4422.2	4400.1
27.5°	4297.2	4292.3	4302.1	4319.3	4336.4	4351.1	4363.4	4365.8	4358.5	4358.5	4365.8
30°	4218.8	4216.4	4228.6	4245.8	4260.5	4275.2	4287.4	4297.2	4287.4	4287.4	4280.1
32.5°	4138.0	4138.0	4142.9	4040.0	3746.0	3373.6	3380.9	3165.3	3015.9	2827.2	3077.1
35°	2582.3	1879.1	1614.5	1367.1	1193.1	1080.4	1078.0	1041.2	1024.1	1011.8	1009.4
37.5°	975.1	980.0	989.8	994.7	1002.0	1006.9	1009.4	1009.4	1009.4	1009.4	1006.9
40°	972.6	982.4	989.8	997.1	1004.5	1009.4	1009.4	1011.8	1014.3	1014.3	1014.3
42.5°	975.1	984.9	994.7	1002.0	1006.9	1009.4	1011.8	1014.3	1014.3	1014.3	1014.3
45°	972.6	977.5	977.5	980.0	980.0	980.0	982.4	982.4	980.0	977.5	982.4
47.5°	935.9	935.9	928.5	926.1	923.6	918.7	921.2	918.7	916.3	913.8	918.7
50°	872.2	862.4	857.5	852.6	850.1	845.2	847.7	845.2	842.8	837.9	845.2
52.5°	796.2	793.8	784.0	779.1	776.6	779.1	774.2	771.7	769.3	766.8	769.3
55°	722.7	712.9	710.5	705.6	703.1	705.6	703.1	700.7	698.2	695.8	698.2
57.5°	656.6	649.2	646.8	641.9	641.9	641.9	641.9	639.4	637.0	634.5	637.0
60°	592.9	588.0	585.5	585.5	583.1	583.1	583.1	580.6	578.2	578.2	580.6
62.5°	539.0	539.0	531.6	529.2	529.2	531.6	529.2	526.7	524.3	521.8	526.7
65°	482.6	472.8	470.4	465.5	460.6	463.0	460.6	458.1	455.7	453.2	458.1
67.5°	414.0	411.6	401.8	396.9	394.4	396.9	394.4	392.0	389.5	387.1	392.0
70°	347.9	347.9	338.1	335.6	333.2	333.2	330.7	330.7	328.3	325.8	330.7
72.5°	289.1	289.1	286.6	281.7	279.3	276.8	274.4	271.9	271.9	274.4	274.4
75°	240.1	235.2	225.4	227.8	225.4	222.9	222.9	220.5	218.0	222.9	220.5
77.5°	188.6	186.2	178.8	181.3	178.8	176.4	176.4	173.9	171.5	173.9	173.9
80°	142.1	142.1	139.6	137.2	137.2	134.7	132.3	132.3	129.8	132.3	132.3
82.5°	102.9	102.9	100.4	98.0	95.5	95.5	93.1	93.1	93.1	93.1	93.1
85°	66.1	63.7	63.7	58.8	58.8	58.8	56.3	56.3	56.3	56.3	56.3
87.5°	31.8	31.8	29.4	29.4	26.9	24.5	24.5	22.0	22.0	24.5	24.5
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5532.0	5563.8	5536.9	5549.1	5551.6	5593.2	5590.8	5600.6	5583.4	5563.8	5536.9
5°	5813.7	5799.0	5779.4	5826.0	5801.5	5830.9	5840.7	5860.3	5860.3	5857.8	5835.8
7.5°	5453.6	5421.8	5446.2	5463.4	5470.7	5451.1	5490.3	5534.4	5571.2	5593.2	5595.7
10°	5171.9	5181.7	5179.2	5186.6	5203.7	5201.3	5225.8	5250.3	5260.1	5274.8	5279.7
12.5°	5039.6	5037.1	5042.0	5059.2	5069.0	5066.5	5091.0	5105.7	5110.6	5113.1	5110.6
15°	4934.2	4917.1	4929.3	4931.8	4939.1	4939.1	4968.5	4990.6	5000.4	5005.3	5000.4
17.5°	4735.8	4694.1	4733.3	4733.3	4760.3	4755.4	4801.9	4838.7	4858.3	4873.0	4873.0
20°	4539.8	4520.2	4534.9	4530.0	4549.6	4547.1	4576.5	4601.0	4618.2	4630.4	4645.1
22.5°	4461.4	4466.3	4444.2	4446.7	4446.7	4444.2	4458.9	4471.2	4476.1	4483.4	4478.5
25°	4409.9	4414.8	4407.5	4395.2	4390.3	4395.2	4402.6	4417.3	4419.7	4414.8	4397.7
27.5°	4358.5	4343.8	4356.0	4334.0	4329.1	4338.9	4348.7	4351.1	4353.6	4353.6	4338.9
30°	4280.1	4267.8	4280.1	4270.3	4260.5	4270.3	4277.6	4277.6	4282.5	4285.0	4267.8
32.5°	2991.4	3015.9	3412.8	3652.9	3991.0	4162.5	4194.3	4194.3	4199.2	4199.2	4184.5
35°	1019.2	1021.6	1104.9	1198.0	1396.5	1641.5	1962.4	2129.0	2692.5	3366.2	4017.9
37.5°	1006.9	1004.5	1002.0	999.6	997.1	994.7	989.8	987.3	1002.0	1188.2	1612.1
40°	1011.8	1009.4	1004.5	1002.0	999.6	994.7	992.2	987.3	982.4	977.5	972.6
42.5°	1011.8	1009.4	1006.9	1004.5	1002.0	999.6	994.7	989.8	984.9	977.5	970.2
45°	977.5	977.5	980.0	980.0	982.4	982.4	982.4	980.0	980.0	977.5	967.7
47.5°	913.8	913.8	921.2	921.2	926.1	931.0	931.0	935.9	943.2	948.1	950.6
50°	840.3	840.3	847.7	850.1	855.0	862.4	869.7	872.2	879.5	889.3	899.1
52.5°	766.8	766.8	774.2	774.2	779.1	786.4	793.8	796.2	806.0	815.8	828.1
55°	698.2	698.2	703.1	705.6	708.0	712.9	720.3	720.3	730.1	737.4	749.7
57.5°	637.0	641.9	641.9	641.9	644.3	649.2	654.1	654.1	661.5	668.8	678.6
60°	578.2	583.1	583.1	583.1	585.5	588.0	592.9	592.9	597.8	602.7	612.5
62.5°	524.3	529.2	529.2	531.6	531.6	534.1	539.0	536.5	541.4	543.9	551.2
65°	455.7	460.6	463.0	465.5	467.9	472.8	480.2	477.7	485.1	490.0	497.3
67.5°	389.5	394.4	394.4	396.9	399.3	404.2	409.1	409.1	416.5	421.4	431.2
70°	328.3	333.2	333.2	335.6	338.1	343.0	347.9	345.4	352.8	357.7	365.0
72.5°	271.9	276.8	276.8	279.3	279.3	284.2	289.1	294.0	294.0	298.9	303.8
75°	220.5	222.9	225.4	225.4	227.8	230.3	235.2	240.1	242.5	245.0	249.9
77.5°	173.9	176.4	178.8	178.8	181.3	183.7	186.2	196.0	200.9	203.3	203.3
80°	132.3	134.7	134.7	134.7	137.2	139.6	144.5	144.5	154.3	154.3	156.8
82.5°	93.1	95.5	95.5	95.5	98.0	102.9	105.3	107.8	112.7	115.1	115.1
85°	56.3	58.8	58.8	58.8	61.2	63.7	68.6	71.0	73.5	73.5	75.9
87.5°	22.0	24.5	26.9	26.9	29.4	31.8	34.3	36.7	39.2	39.2	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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5507.5	5524.6	5507.5	5517.3	5529.5	5507.5	5456.0	5436.4	5429.1	5399.7	5380.1
5°	5813.7	5813.7	5806.4	5826.0	5823.5	5789.2	5735.3	5710.8	5686.3	5654.5	5630.0
7.5°	5595.7	5615.3	5627.5	5703.5	5752.5	5757.4	5791.7	5799.0	5808.8	5799.0	5784.3
10°	5282.1	5274.8	5309.1	5380.1	5421.8	5443.8	5509.9	5541.8	5568.7	5622.6	5679.0
12.5°	5105.7	5115.5	5130.2	5181.7	5220.9	5211.1	5238.0	5260.1	5291.9	5345.8	5426.7
15°	4988.1	4997.9	5012.6	5051.8	5076.3	5064.1	5078.8	5093.5	5115.5	5142.5	5191.5
17.5°	4860.7	4877.9	4895.0	4936.7	4958.7	4956.3	4968.5	4973.4	4980.8	4997.9	5032.2
20°	4662.3	4716.2	4750.5	4806.8	4838.7	4833.8	4855.8	4863.2	4873.0	4890.1	4904.8
22.5°	4481.0	4495.7	4512.8	4574.1	4628.0	4694.1	4708.8	4728.4	4752.9	4770.1	4784.8
25°	4378.1	4368.3	4375.6	4417.3	4446.7	4451.6	4473.6	4537.3	4603.5	4632.9	4667.2
27.5°	4316.8	4307.0	4304.6	4324.2	4329.1	4316.8	4311.9	4331.5	4380.5	4429.5	4532.4
30°	4250.7	4238.4	4228.6	4245.8	4253.1	4236.0	4204.1	4187.0	4216.4	4228.6	4270.3
32.5°	4172.3	4160.0	4155.1	4164.9	4169.8	4155.1	4120.8	4101.2	4096.3	4086.5	4096.3
35°	4084.1	4071.8	4064.5	4066.9	4076.7	4064.5	4035.1	4010.6	3998.3	3971.4	3951.8
37.5°	2104.5	2981.6	3870.9	3964.0	3973.8	3971.4	3942.0	3915.0	3902.8	3870.9	3861.1
40°	962.8	1075.5	1614.5	2109.4	3042.8	3866.0	3839.1	3812.1	3790.1	3780.3	3743.5
42.5°	960.4	962.8	965.3	953.0	1180.9	2011.4	2969.3	3706.8	3692.1	3667.6	3640.6
45°	960.4	948.1	957.9	943.2	948.1	945.7	1178.4	1901.2	3383.4	3535.3	3523.0
47.5°	950.6	943.2	953.0	940.8	926.1	933.4	923.6	935.9	1460.2	2476.9	3393.2
50°	906.5	911.4	928.5	926.1	913.8	923.6	906.5	921.2	908.9	997.1	1920.8
52.5°	840.3	850.1	867.3	882.0	886.9	899.1	894.2	899.1	889.3	891.8	894.2
55°	761.9	774.2	788.9	810.9	820.7	840.3	855.0	862.4	874.6	872.2	852.6
57.5°	688.4	700.7	712.9	735.0	757.0	766.8	793.8	808.5	840.3	833.0	828.1
60°	619.8	629.6	641.9	646.8	673.7	690.9	715.4	730.1	771.7	781.5	796.2
62.5°	558.6	563.5	573.3	580.6	597.8	614.9	627.2	651.7	673.7	705.6	727.6
65°	502.2	507.1	514.5	519.4	521.8	546.3	553.7	580.6	588.0	622.3	641.9
67.5°	438.5	448.3	458.1	463.0	467.9	482.6	487.5	499.8	516.9	531.6	556.1
70°	372.4	379.7	389.5	396.9	406.7	416.5	431.2	438.5	450.8	460.6	480.2
72.5°	311.1	318.5	323.4	330.7	338.1	345.4	357.7	374.8	384.6	401.8	406.7
75°	252.3	259.7	264.6	269.5	276.8	281.7	286.6	303.8	313.6	328.3	343.0
77.5°	208.2	208.2	213.1	227.8	225.4	225.4	230.3	240.1	247.4	257.2	271.9
80°	161.7	164.1	166.6	178.8	181.3	183.7	181.3	188.6	196.0	198.4	208.2
82.5°	120.0	122.5	122.5	129.8	137.2	137.2	137.2	139.6	147.0	149.4	154.3
85°	80.8	83.3	85.7	88.2	93.1	95.5	98.0	98.0	102.9	105.3	107.8
87.5°	44.1	49.0	51.4	53.9	56.3	58.8	61.2	63.7	66.1	68.6	71.0
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8	5345.8
2.5°	5372.8	5360.5	5353.2	5333.6	5328.7	5296.8	5301.7	5296.8	5296.8	5304.2	5328.7
5°	5603.0	5544.2	5529.5	5487.9	5453.6	5394.8	5358.1	5338.5	5309.1	5296.8	5314.0
7.5°	5759.8	5715.7	5679.0	5642.2	5593.2	5524.6	5473.2	5414.4	5365.4	5318.9	5306.6
10°	5732.9	5781.9	5781.9	5759.8	5713.3	5644.7	5583.4	5509.9	5424.2	5350.7	5306.6
12.5°	5505.0	5590.8	5659.4	5710.8	5757.4	5710.8	5649.6	5590.8	5495.2	5387.5	5306.6
15°	5255.2	5343.4	5429.1	5536.9	5649.6	5696.1	5693.7	5625.1	5539.3	5426.7	5314.0
17.5°	5078.8	5140.0	5186.6	5304.2	5441.3	5561.4	5642.2	5647.1	5563.8	5463.4	5316.4
20°	4946.5	4990.6	5029.8	5095.9	5216.0	5363.0	5512.4	5595.7	5581.0	5470.7	5323.8
22.5°	4826.4	4858.3	4890.1	4939.1	5034.7	5130.2	5304.2	5475.6	5549.1	5458.5	5316.4
25°	4706.4	4740.7	4765.2	4799.5	4875.4	4953.8	5076.3	5289.5	5453.6	5448.7	5301.7
27.5°	4564.3	4610.8	4640.2	4686.8	4738.2	4797.0	4880.3	5081.2	5316.4	5399.7	5262.5
30°	4392.8	4461.4	4505.5	4556.9	4601.0	4652.5	4718.6	4841.1	5132.7	5304.2	5220.9
32.5°	4145.3	4267.8	4365.8	4414.8	4463.8	4507.9	4566.7	4669.6	4907.3	5174.3	5174.3
35°	3968.9	4025.3	4113.5	4255.6	4316.8	4360.9	4414.8	4495.7	4647.6	5020.0	5098.4
37.5°	3831.7	3853.8	3897.9	4037.5	4152.7	4223.7	4277.6	4329.1	4478.5	4809.3	5000.4
40°	3728.8	3721.5	3716.6	3782.7	3946.9	4059.6	4120.8	4172.3	4287.4	4556.9	4870.5
42.5°	3608.8	3601.4	3576.9	3594.1	3674.9	3863.6	3956.7	4013.0	4108.6	4292.3	4728.4
45°	3483.8	3471.6	3461.8	3444.6	3474.0	3579.4	3770.5	3853.8	3907.7	4071.8	4549.6
47.5°	3356.4	3339.3	3327.0	3312.3	3295.2	3344.2	3525.5	3674.9	3768.0	3870.9	4334.0
50°	3175.1	3197.2	3182.5	3165.3	3150.6	3140.8	3216.8	3461.8	3576.9	3660.2	4071.8
52.5°	1496.9	2910.5	3033.0	3015.9	2996.3	2979.1	2996.3	3182.5	3390.7	3456.9	3755.8
55°	852.6	1296.0	2697.4	2851.7	2834.6	2810.1	2795.4	2859.1	3170.2	3258.4	3466.7
57.5°	820.7	823.2	1190.7	2570.0	2665.6	2643.5	2626.4	2641.1	2905.6	3055.1	3214.3
60°	793.8	793.8	793.8	1136.8	2457.3	2464.7	2442.6	2418.1	2533.3	2827.2	2959.5
62.5°	735.0	749.7	757.0	757.0	1122.1	2276.0	2254.0	2246.6	2251.5	2552.9	2704.8
65°	659.0	693.3	708.0	717.8	717.8	1178.4	2060.4	2048.2	2031.0	2146.2	2447.5
67.5°	575.7	610.0	641.9	661.5	663.9	686.0	1229.9	1844.8	1820.3	1822.8	2173.1
70°	490.0	519.4	553.7	583.1	610.0	622.3	641.9	1531.2	1612.1	1577.8	1862.0
72.5°	423.8	436.1	460.6	490.0	521.8	551.2	568.4	610.0	1398.9	1362.2	1416.1
75°	352.8	362.6	379.7	399.3	423.8	458.1	487.5	516.9	742.3	1141.7	1134.3
77.5°	274.4	291.5	311.1	323.4	335.6	360.1	399.3	428.7	458.1	771.7	908.9
80°	210.7	222.9	232.7	245.0	259.7	276.8	291.5	325.8	360.1	387.1	695.8
82.5°	156.8	164.1	171.5	176.4	181.3	191.1	218.0	230.3	252.3	276.8	328.3
85°	110.2	115.1	120.0	122.5	124.9	127.4	137.2	139.6	161.7	166.6	198.4
87.5°	71.0	73.5	78.4	80.8	80.8	83.3	85.7	85.7	85.7	80.8	98.0
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	5345.8	5345.8
2.5°	5348.3	5387.5
5°	5340.9	5392.4
7.5°	5321.3	5370.3
10°	5291.9	5350.7
12.5°	5260.1	5316.4
15°	5233.1	5274.8
17.5°	5203.7	5228.2
20°	5164.5	5184.1
22.5°	5125.3	5115.5
25°	5081.2	5059.2
27.5°	5024.9	4983.2
30°	4973.4	4899.9
32.5°	4924.4	4804.4
35°	4858.3	4706.4
37.5°	4789.7	4605.9
40°	4708.8	4490.8
42.5°	4623.1	4375.6
45°	4515.3	4265.4
47.5°	4419.7	4133.1
50°	4287.4	3991.0
52.5°	4125.7	3858.7
55°	3934.6	3697.0
57.5°	3728.8	3527.9
60°	3508.3	3334.4
62.5°	3241.3	3133.5
65°	2927.7	2903.2
67.5°	2518.6	2648.4
70°	2065.3	2356.9
72.5°	1727.2	2048.2
75°	1416.1	1702.7
77.5°	1122.1	1335.2
80°	700.7	977.5
82.5°	470.4	641.9
85°	284.2	306.2
87.5°	110.2	112.7
90°	0.0	0.0

(END OF REPORT)