

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-LD5-130HL-RW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-130HL-RW-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

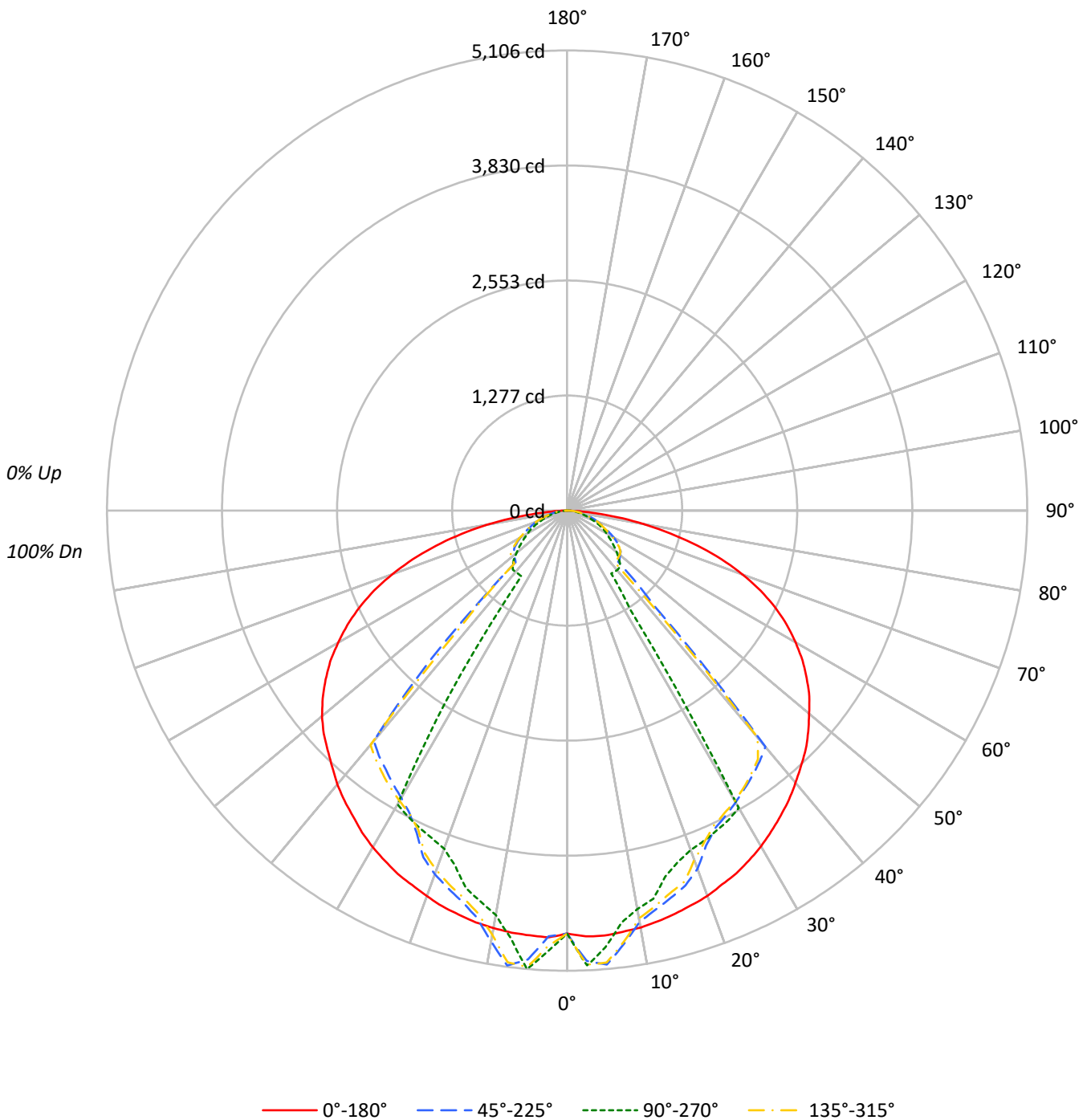
Lumens per Lamp: N/A  
Luminaire Lumens: 9398.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-130HL-RW-UNV-L950-CD1-U

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	18963	18963	18963	18963
5°	19175	19106	19166	20052
10°	19220	17274	19246	17538
15°	19290	15982	19335	16488
20°	19459	15158	19459	15101
25°	19658	14868	19686	14730
30°	19890	14606	19940	14433
35°	20160	3327	20202	3470
40°	20526	3460	20649	3571
45°	21068	3440	21141	3565
50°	21621	3110	21913	3195
55°	22364	2762	22542	2801
60°	23032	2454	23083	2486
65°	23577	2142	23518	2108
70°	23437	1726	23364	1664
75°	22050	1328	22209	1272
80°	18343	944	19079	863
85°	10577	565	11167	434



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.7	4.9
10°-20°	1269.6	13.5
20°-30°	1880.5	20.0
30°-40°	1894.8	20.2
40°-50°	1480.1	15.7
50°-60°	1143.3	12.2
60°-70°	767.6	8.2
70°-80°	391.6	4.2
80°-90°	108.9	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°	3611.8	38.4
0°-40°	5506.6	58.6
0°-60°	8129.9	86.5
0°-90°	9398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4693	4693	4693	4693	4693	
5°	4734	4865	4732	5106	4734	450
15°	4631	4205	4642	4338	4631	1310
25°	4442	3919	4448	3882	4442	2049
35°	4132	852	4140	888	4132	2589
45°	3745	828	3758	858	3745	2888
55°	3246	602	3271	611	3246	2899
65°	2549	404	2542	398	2549	2507
75°	1495	204	1506	196	1495	1563
85°	269	64	284	50	269	370
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4729.7	4746.9	4759.8	4768.4	4772.7	4772.7	4774.9	4777.0	4805.0	4817.9	4826.5
5°	4734.0	4751.2	4777.0	4811.4	4841.5	4867.3	4888.8	4919.0	4949.1	4981.3	4992.1
7.5°	4714.6	4736.1	4787.8	4850.1	4908.2	4949.1	4977.0	4996.4	5011.4	5013.6	5024.3
10°	4697.4	4736.1	4807.1	4888.8	4962.0	5011.4	5011.4	5000.7	5015.7	4957.7	4899.6
12.5°	4667.3	4710.3	4807.1	4914.7	4983.5	5002.8	4994.2	4951.2	4863.0	4792.1	4759.8
15°	4630.7	4688.8	4809.3	4929.7	4987.8	4994.2	4912.5	4802.8	4736.1	4693.1	4639.3
17.5°	4589.9	4667.3	4811.4	4931.9	4953.4	4923.3	4768.4	4699.6	4630.7	4529.7	4456.5
20°	4551.2	4626.4	4794.2	4901.8	4914.7	4779.2	4658.7	4585.6	4469.4	4381.2	4349.0
22.5°	4490.9	4579.1	4779.2	4860.9	4811.4	4654.4	4538.3	4422.1	4316.7	4290.9	4252.2
25°	4441.5	4534.0	4744.7	4811.4	4680.2	4540.4	4404.9	4269.4	4219.9	4183.4	4149.0
27.5°	4374.8	4488.8	4699.6	4721.1	4540.4	4417.8	4219.9	4159.7	4114.5	4073.7	4058.6
30°	4301.7	4441.5	4637.2	4596.3	4424.3	4243.6	4097.3	4041.4	4009.2	3966.1	3948.9
32.5°	4217.8	4370.5	4568.4	4452.2	4299.5	4073.7	3979.0	3936.0	3893.0	3860.7	3753.2
35°	4131.8	4308.1	4486.6	4314.6	4149.0	3944.6	3860.7	3822.0	3781.2	3662.9	3551.0
37.5°	4043.6	4239.3	4387.7	4166.2	3948.9	3811.3	3740.3	3697.3	3604.8	3454.2	3398.3
40°	3942.5	4155.4	4260.8	4013.5	3774.7	3675.8	3609.1	3566.1	3357.5	3290.8	3273.6
42.5°	3841.4	4073.7	4105.9	3865.0	3630.6	3531.7	3475.7	3333.8	3191.8	3157.4	3163.9
45°	3744.6	3985.5	3936.0	3654.3	3480.0	3398.3	3303.7	3108.0	3032.7	3049.9	3054.2
47.5°	3628.5	3880.1	3757.5	3443.5	3325.2	3243.5	3032.7	2914.4	2903.6	2927.3	2940.2
50°	3503.7	3761.8	3568.2	3252.1	3157.4	3060.6	2821.9	2761.7	2774.6	2798.2	2813.3
52.5°	3387.6	3628.5	3372.5	3073.5	2991.8	2770.3	2609.0	2619.7	2641.2	2669.2	2677.8
55°	3245.6	3467.1	3163.9	2892.9	2815.4	2525.1	2452.0	2477.8	2499.3	2522.9	2540.1
57.5°	3097.2	3282.2	2916.5	2690.7	2565.9	2307.8	2314.3	2331.5	2346.6	2374.5	980.8
60°	2927.3	3071.4	2645.5	2503.6	2256.2	2135.8	2142.2	2172.3	2187.4	1221.7	675.4
62.5°	2750.9	2826.2	2400.3	2290.6	1972.3	1963.7	1993.8	2006.7	1365.8	645.3	632.3
65°	2548.7	2533.7	2159.4	1985.2	1778.7	1787.3	1819.6	1755.1	604.4	604.4	600.1
67.5°	2325.1	2234.7	1925.0	1643.2	1591.6	1611.0	1645.4	574.3	559.2	563.5	548.5
70°	2069.1	1942.2	1682.0	1391.6	1408.8	1428.2	554.9	520.5	514.0	503.3	473.2
72.5°	1798.1	1623.9	1376.5	1208.8	1219.5	765.7	486.1	468.9	447.4	425.9	393.6
75°	1494.8	1269.0	1010.9	1010.9	1025.9	436.6	423.7	395.8	372.1	344.1	324.8
77.5°	1172.2	976.5	785.1	815.2	397.9	365.6	342.0	311.9	292.5	275.3	264.6
80°	858.2	681.8	591.5	529.1	309.7	277.5	253.8	236.6	228.0	217.2	204.3
82.5°	563.5	410.8	410.8	249.5	217.2	191.4	185.0	172.1	163.5	157.0	150.6
85°	268.9	238.7	180.7	152.7	135.5	122.6	118.3	111.8	111.8	109.7	107.5
87.5°	98.9	107.5	79.6	77.4	73.1	71.0	73.1	73.1	75.3	73.1	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



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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°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4848.0	4865.2	4878.1	4899.6	4927.6	4951.2	4972.7	5002.8	5050.2	5063.1	5073.8
5°	4992.1	4998.5	5013.6	5030.8	5035.1	5045.9	5043.7	5056.6	5063.1	5078.1	5045.9
7.5°	5000.7	4966.3	4925.4	4888.8	4863.0	4839.4	4824.3	4848.0	4860.9	4871.6	4839.4
10°	4820.0	4779.2	4755.5	4734.0	4708.2	4671.6	4622.1	4632.9	4628.6	4628.6	4617.8
12.5°	4706.0	4648.0	4587.7	4534.0	4510.3	4508.1	4510.3	4534.0	4534.0	4531.8	4518.9
15°	4527.5	4471.6	4441.5	4428.6	4428.6	4422.1	4422.1	4447.9	4441.5	4441.5	4435.0
17.5°	4409.2	4370.5	4349.0	4333.9	4327.5	4338.2	4351.1	4361.9	4364.0	4355.4	4321.0
20°	4312.4	4275.9	4250.0	4254.3	4252.2	4258.7	4265.1	4228.5	4183.4	4123.1	4095.2
22.5°	4211.3	4183.4	4164.0	4164.0	4138.2	4097.3	4037.1	4024.2	4017.8	3989.8	3966.1
25°	4114.5	4082.3	4054.3	3968.3	3914.5	3921.0	3910.2	3888.7	3886.6	3884.4	3893.0
27.5°	4017.8	3933.9	3826.3	3813.4	3791.9	3789.8	3802.7	3813.4	3813.4	3822.0	3832.8
30°	3817.7	3720.9	3701.6	3677.9	3686.5	3716.6	3723.1	3738.1	3742.5	3757.5	3766.1
32.5°	3634.9	3591.9	3574.7	3585.4	3613.4	3639.2	3654.3	3660.7	3671.5	3684.4	3695.1
35°	3486.5	3473.6	3488.7	3512.3	3540.3	3561.8	3574.7	3587.6	3598.3	3609.1	3617.7
37.5°	3376.8	3385.4	3406.9	3437.0	3465.0	3482.2	3493.0	3508.0	3523.1	3536.0	3484.4
40°	3273.6	3295.1	3318.7	3351.0	3374.7	3391.9	3402.6	3422.0	3292.9	1490.5	817.3
42.5°	3183.2	3206.9	3224.1	3249.9	3275.7	3288.6	3194.0	1426.0	806.6	802.3	813.0
45°	3073.5	3092.9	3120.9	3140.2	3163.9	2077.7	793.7	802.3	789.4	798.0	802.3
47.5°	2961.7	2991.8	3006.9	2869.2	853.9	789.4	780.8	789.4	780.8	791.5	785.1
50°	2834.8	2871.4	2043.3	772.1	765.7	761.4	770.0	765.7	772.1	780.8	763.5
52.5°	2705.7	1675.5	748.5	744.2	748.5	744.2	759.2	748.5	750.6	742.0	720.5
55°	916.3	724.8	718.4	716.2	729.1	729.1	729.1	711.9	701.2	679.7	664.6
57.5°	701.2	701.2	699.0	701.2	696.9	692.6	673.2	658.2	643.1	613.0	604.4
60°	664.6	664.6	664.6	664.6	645.3	636.6	606.5	593.6	567.8	552.8	544.2
62.5°	634.5	630.2	610.8	604.4	582.9	559.2	542.0	529.1	503.3	494.7	488.2
65°	591.5	576.4	552.8	527.0	516.2	490.4	481.8	462.4	449.5	443.1	438.8
67.5°	520.5	499.0	479.6	462.4	443.1	434.5	423.7	408.7	400.1	395.8	391.5
70°	445.2	430.2	410.8	400.1	387.2	380.7	365.6	361.3	354.9	348.4	342.0
72.5°	372.1	363.5	354.9	339.8	335.5	331.2	316.2	307.6	299.0	290.4	286.1
75°	311.9	305.4	301.1	288.2	281.8	268.9	258.1	251.6	245.2	238.7	234.4
77.5°	255.9	251.6	238.7	230.1	225.8	215.1	210.8	212.9	208.6	200.0	195.7
80°	200.0	195.7	185.0	185.0	180.7	176.4	172.1	167.8	163.5	157.0	152.7
82.5°	152.7	148.4	144.1	139.8	135.5	133.4	131.2	126.9	122.6	118.3	116.1
85°	107.5	105.4	103.2	101.1	98.9	96.8	94.6	90.3	86.0	83.9	81.7
87.5°	73.1	71.0	68.8	66.7	64.5	62.4	60.2	58.1	53.8	51.6	49.5
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°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	5073.8	5084.6	5073.8	5050.2	5035.1	5028.6	5041.6	5041.6	5050.2	5060.9	5063.1
5°	4994.2	4968.4	4938.3	4908.2	4893.1	4884.5	4860.9	4865.2	4871.6	4875.9	4880.2
7.5°	4796.4	4761.9	4721.1	4682.4	4667.3	4654.4	4626.4	4626.4	4626.4	4628.6	4641.5
10°	4594.2	4579.1	4561.9	4536.1	4516.8	4510.3	4486.6	4493.1	4488.8	4495.2	4510.3
12.5°	4499.5	4482.3	4467.3	4441.5	4420.0	4411.4	4400.6	4407.1	4404.9	4415.7	4428.6
15°	4413.5	4404.9	4387.7	4368.3	4349.0	4331.8	4293.1	4280.2	4271.6	4260.8	4275.9
17.5°	4271.6	4211.3	4170.5	4140.4	4118.8	4103.8	4093.0	4093.0	4099.5	4105.9	4118.8
20°	4078.0	4060.8	4041.4	4009.2	3987.6	3979.0	3972.6	3972.6	3983.3	3991.9	4015.6
22.5°	3944.6	3942.5	3936.0	3921.0	3910.2	3910.2	3912.4	3916.7	3931.7	3944.6	3968.3
25°	3882.3	3890.9	3886.6	3878.0	3871.5	3873.7	3869.4	3873.7	3888.7	3901.6	3921.0
27.5°	3832.8	3845.7	3841.4	3828.5	3817.7	3822.0	3828.5	3824.2	3837.1	3852.1	3867.2
30°	3766.1	3768.3	3776.9	3761.8	3757.5	3764.0	3766.1	3770.4	3783.3	3794.1	3807.0
32.5°	3690.8	3708.0	3705.9	3690.8	3690.8	3697.3	3699.4	3555.3	3286.5	2830.5	2705.7
35°	3617.7	3637.1	3604.8	3039.1	2103.5	1122.7	866.8	836.7	843.1	847.4	851.7
37.5°	2675.6	1269.0	808.7	815.2	821.6	828.1	834.5	841.0	847.4	853.9	856.0
40°	804.4	802.3	808.7	817.3	823.8	828.1	836.7	843.1	849.6	856.0	858.2
42.5°	795.8	800.1	806.6	815.2	823.8	832.4	838.8	847.4	851.7	856.0	858.2
45°	791.5	800.1	808.7	815.2	821.6	825.9	830.2	832.4	830.2	830.2	834.5
47.5°	785.1	793.7	795.8	793.7	795.8	793.7	793.7	793.7	787.2	785.1	785.1
50°	761.4	761.4	757.1	748.5	746.3	744.2	739.9	737.7	729.1	727.0	727.0
52.5°	711.9	709.8	703.3	692.6	688.3	684.0	681.8	679.7	671.1	666.8	668.9
55°	653.9	649.6	643.1	630.2	628.0	623.7	621.6	619.4	610.8	615.1	608.7
57.5°	600.1	591.5	582.9	580.7	572.1	570.0	567.8	565.7	559.2	561.4	557.1
60°	535.6	533.4	529.1	520.5	520.5	518.4	518.4	514.0	509.7	507.6	507.6
62.5°	488.2	481.8	477.5	477.5	471.0	471.0	471.0	466.7	462.4	464.6	462.4
65°	436.6	434.5	432.3	428.0	428.0	425.9	425.9	421.6	415.1	417.3	413.0
67.5°	393.6	389.3	385.0	382.8	374.2	369.9	367.8	365.6	357.0	359.2	354.9
70°	339.8	333.4	329.1	324.8	318.3	314.0	314.0	309.7	303.3	305.4	301.1
72.5°	283.9	279.6	275.3	273.2	266.7	264.6	262.4	260.3	253.8	255.9	253.8
75°	236.6	236.6	234.4	232.3	225.8	219.4	215.1	212.9	208.6	210.8	206.5
77.5°	195.7	191.4	187.1	187.1	180.7	176.4	172.1	172.1	172.1	169.9	167.8
80°	152.7	148.4	148.4	146.3	142.0	137.7	135.5	135.5	133.4	133.4	131.2
82.5°	116.1	111.8	109.7	109.7	105.4	103.2	101.1	98.9	98.9	98.9	96.8
85°	81.7	77.4	75.3	75.3	71.0	68.8	68.8	66.7	66.7	64.5	64.5
87.5°	49.5	47.3	45.2	45.2	40.9	38.7	38.7	38.7	36.6	36.6	34.4
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	5063.1	5063.1	5048.0	5052.3	5045.9	5054.5	5043.7	5043.7	5056.6	5056.6	5065.2
5°	4882.4	4871.6	4869.5	4865.2	4843.7	4852.3	4841.5	4830.8	4845.8	4845.8	4865.2
7.5°	4635.0	4615.7	4624.3	4611.4	4598.5	4579.1	4585.6	4577.0	4587.7	4602.8	4622.1
10°	4508.1	4490.9	4501.7	4488.8	4495.2	4467.3	4469.4	4471.6	4482.3	4486.6	4503.8
12.5°	4426.4	4422.1	4417.8	4413.5	4417.8	4402.8	4394.2	4396.3	4400.6	4402.8	4415.7
15°	4254.3	4226.4	4235.0	4204.9	4207.0	4209.2	4192.0	4209.2	4207.0	4235.0	4260.8
17.5°	4114.5	4114.5	4099.5	4086.6	4078.0	4075.8	4062.9	4071.5	4062.9	4080.1	4086.6
20°	4017.8	4015.6	4013.5	4007.0	3985.5	3987.6	3994.1	3974.7	3972.6	3970.4	3983.3
22.5°	3972.6	3974.7	3966.1	3966.1	3946.8	3951.1	3953.2	3931.7	3933.9	3927.4	3933.9
25°	3925.3	3929.6	3918.8	3918.8	3914.5	3912.4	3901.6	3905.9	3893.0	3882.3	3893.0
27.5°	3869.4	3878.0	3869.4	3873.7	3865.0	3860.7	3854.3	3850.0	3837.1	3834.9	3841.4
30°	3817.7	3822.0	3819.9	3809.1	3807.0	3794.1	3800.5	3787.6	3774.7	3776.9	3781.2
32.5°	1957.3	1869.1	1441.1	1301.3	1288.3	1335.7	1583.0	1927.1	2497.1	3049.9	3447.8
35°	853.9	853.9	853.9	851.7	851.7	849.6	847.4	845.3	843.1	841.0	838.8
37.5°	858.2	858.2	858.2	858.2	856.0	853.9	853.9	849.6	847.4	845.3	843.1
40°	860.3	862.5	862.5	862.5	860.3	860.3	858.2	853.9	851.7	847.4	843.1
42.5°	858.2	860.3	860.3	858.2	858.2	856.0	856.0	853.9	851.7	849.6	847.4
45°	830.2	832.4	828.1	828.1	825.9	825.9	825.9	825.9	825.9	828.1	828.1
47.5°	780.8	780.8	778.6	776.5	776.5	774.3	776.5	774.3	778.6	780.8	785.1
50°	722.7	722.7	718.4	716.2	716.2	716.2	716.2	718.4	720.5	724.8	729.1
52.5°	662.5	662.5	660.3	658.2	656.0	656.0	662.5	660.3	662.5	664.6	671.1
55°	604.4	606.5	602.2	602.2	600.1	600.1	600.1	602.2	604.4	606.5	613.0
57.5°	554.9	554.9	550.6	550.6	550.6	548.5	554.9	550.6	552.8	554.9	559.2
60°	505.4	503.3	503.3	501.1	501.1	501.1	505.4	503.3	503.3	505.4	509.7
62.5°	460.3	460.3	458.1	458.1	456.0	456.0	460.3	458.1	458.1	460.3	462.4
65°	408.7	408.7	406.5	404.4	410.8	404.4	410.8	406.5	410.8	413.0	417.3
67.5°	350.6	350.6	350.6	348.4	348.4	352.7	354.9	350.6	352.7	357.0	359.2
70°	299.0	299.0	296.8	296.8	296.8	301.1	303.3	299.0	301.1	303.3	307.6
72.5°	253.8	249.5	249.5	247.3	251.6	251.6	253.8	251.6	253.8	253.8	258.1
75°	208.6	204.3	204.3	204.3	208.6	206.5	208.6	206.5	208.6	208.6	210.8
77.5°	167.8	165.6	163.5	163.5	167.8	167.8	167.8	165.6	167.8	169.9	172.1
80°	131.2	129.1	126.9	126.9	131.2	131.2	131.2	133.4	131.2	133.4	135.5
82.5°	96.8	94.6	92.5	96.8	96.8	96.8	96.8	98.9	96.8	98.9	101.1
85°	64.5	62.4	60.2	64.5	64.5	64.5	64.5	66.7	64.5	66.7	68.8
87.5°	34.4	32.3	32.3	34.4	34.4	34.4	36.6	36.6	36.6	38.7	38.7
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	5078.1	5084.6	5082.4	5069.5	5056.6	5041.6	5030.8	5033.0	5054.5	5060.9	5041.6
5°	4865.2	4906.1	4906.1	4934.0	4919.0	4906.1	4914.7	4962.0	4985.6	5022.2	5035.1
7.5°	4645.8	4665.2	4663.0	4691.0	4686.7	4686.7	4693.1	4755.5	4785.6	4815.7	4824.3
10°	4523.2	4542.6	4540.4	4542.6	4536.1	4521.1	4521.1	4549.0	4574.8	4589.9	4594.2
12.5°	4435.0	4445.8	4443.6	4443.6	4439.3	4426.4	4424.3	4447.9	4475.9	4495.2	4497.4
15°	4303.8	4333.9	4340.4	4368.3	4361.9	4344.7	4349.0	4368.3	4385.6	4402.8	4396.3
17.5°	4108.1	4123.1	4125.3	4136.1	4131.8	4131.8	4157.6	4228.5	4275.9	4316.7	4321.0
20°	3996.2	4007.0	4002.7	4026.4	4015.6	4013.5	4019.9	4050.0	4071.5	4090.9	4125.3
22.5°	3942.5	3951.1	3944.6	3946.8	3927.4	3910.2	3905.9	3929.6	3953.2	3979.0	3979.0
25°	3897.3	3903.8	3901.6	3897.3	3882.3	3858.6	3854.3	3858.6	3867.2	3869.4	3854.3
27.5°	3843.5	3847.8	3847.8	3850.0	3830.6	3809.1	3804.8	3800.5	3809.1	3807.0	3783.3
30°	3787.6	3781.2	3783.3	3785.5	3768.3	3748.9	3740.3	3738.1	3746.8	3744.6	3720.9
32.5°	3654.3	3703.7	3708.0	3712.3	3697.3	3680.1	3671.5	3665.0	3669.3	3667.2	3645.7
35°	836.7	851.7	1043.2	2361.6	3206.9	3551.0	3587.6	3579.0	3581.1	3581.1	3563.9
37.5°	838.8	836.7	834.5	828.1	821.6	817.3	1413.1	3013.3	3490.8	3493.0	3477.9
40°	838.8	836.7	834.5	830.2	821.6	815.2	804.4	795.8	815.2	1793.8	3282.2
42.5°	843.1	838.8	834.5	830.2	821.6	813.0	804.4	793.7	800.1	795.8	785.1
45°	830.2	828.1	828.1	825.9	821.6	813.0	802.3	789.4	782.9	789.4	778.6
47.5°	789.4	791.5	798.0	800.1	800.1	802.3	795.8	787.2	776.5	782.9	770.0
50°	733.4	737.7	739.9	750.6	754.9	763.5	765.7	765.7	763.5	772.1	763.5
52.5°	673.2	677.5	688.3	692.6	696.9	709.8	714.1	720.5	724.8	737.7	746.3
55°	615.1	617.3	621.6	630.2	636.6	647.4	653.9	660.3	671.1	677.5	703.3
57.5°	561.4	563.5	572.1	574.3	578.6	587.2	593.6	602.2	610.8	615.1	645.3
60°	509.7	511.9	518.4	520.5	522.7	531.3	537.7	544.2	550.6	554.9	576.4
62.5°	464.6	464.6	471.0	471.0	473.2	479.6	483.9	488.2	494.7	496.8	507.6
65°	419.4	421.6	425.9	425.9	428.0	432.3	434.5	436.6	443.1	443.1	451.7
67.5°	363.5	365.6	372.1	376.4	378.5	387.2	389.3	391.5	395.8	397.9	402.2
70°	309.7	311.9	318.3	320.5	322.6	329.1	333.4	339.8	346.3	352.7	357.0
72.5°	260.3	262.4	268.9	268.9	275.3	277.5	281.8	283.9	290.4	294.7	301.1
75°	212.9	215.1	221.5	221.5	228.0	230.1	232.3	234.4	238.7	243.0	247.3
77.5°	174.2	174.2	182.8	187.1	191.4	191.4	193.6	193.6	193.6	195.7	200.0
80°	137.7	137.7	144.1	148.4	152.7	152.7	154.9	157.0	159.2	159.2	161.3
82.5°	103.2	103.2	109.7	111.8	116.1	116.1	116.1	118.3	120.4	118.3	122.6
85°	71.0	71.0	75.3	77.4	81.7	81.7	81.7	83.9	86.0	83.9	86.0
87.5°	40.9	43.0	45.2	47.3	49.5	51.6	51.6	51.6	53.8	53.8	55.9
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	5020.0	4994.2	4992.1	4962.0	4953.4	4955.5	4931.9	4923.3	4884.5	4875.9	4835.1
5°	5039.4	5052.3	5045.9	5043.7	5050.2	5045.9	5028.6	5020.0	5013.6	4996.4	4962.0
7.5°	4826.5	4835.1	4841.5	4869.5	4893.1	4934.0	4977.0	5005.0	5026.5	5030.8	5002.8
10°	4609.2	4650.1	4678.1	4721.1	4755.5	4779.2	4805.0	4828.6	4891.0	4953.4	4989.9
12.5°	4497.4	4508.1	4506.0	4529.7	4553.3	4615.7	4675.9	4710.3	4757.6	4785.6	4852.3
15°	4402.8	4404.9	4411.4	4428.6	4441.5	4463.0	4490.9	4542.6	4637.2	4680.2	4716.8
17.5°	4316.7	4316.7	4321.0	4336.1	4353.3	4372.6	4389.9	4411.4	4458.7	4529.7	4620.0
20°	4179.1	4239.3	4245.7	4243.6	4252.2	4288.8	4293.1	4331.8	4355.4	4383.4	4471.6
22.5°	3974.7	4011.3	4062.9	4142.5	4172.6	4189.8	4202.7	4219.9	4256.5	4288.8	4325.3
25°	3862.9	3886.6	3901.6	3925.3	3987.6	4088.7	4108.1	4127.5	4151.1	4174.8	4219.9
27.5°	3764.0	3761.8	3772.6	3794.1	3811.3	3865.0	3959.7	4035.0	4039.3	4073.7	4112.4
30°	3693.0	3680.1	3665.0	3660.7	3684.4	3712.3	3740.3	3858.6	3940.3	3957.5	3998.4
32.5°	3626.3	3604.8	3583.3	3566.1	3551.0	3574.7	3591.9	3643.5	3748.9	3847.8	3869.4
35°	3544.6	3523.1	3497.3	3477.9	3454.2	3452.1	3449.9	3499.4	3533.8	3652.1	3755.4
37.5°	3460.7	3437.0	3415.5	3394.0	3370.4	3353.1	3342.4	3355.3	3387.6	3439.2	3611.2
40°	3372.5	3344.5	3323.0	3305.8	3273.6	3260.7	3239.2	3230.6	3232.7	3277.9	3368.2
42.5°	2015.3	3213.3	3224.1	3204.7	3176.8	3159.6	3135.9	3125.2	3103.7	3125.2	3176.8
45°	776.5	785.1	2350.9	3105.8	3071.4	3049.9	3028.4	3017.6	2994.0	2976.8	3024.1
47.5°	761.4	770.0	752.8	1066.8	2931.6	2938.0	2912.2	2901.5	2877.8	2864.9	2852.0
50°	750.6	757.1	744.2	748.5	733.4	2686.4	2793.9	2781.0	2755.2	2740.2	2714.4
52.5°	739.9	739.9	731.3	720.5	716.2	718.4	2260.5	2658.4	2628.3	2613.3	2578.8
55°	705.5	709.8	718.4	701.2	696.9	694.7	688.3	2153.0	2488.5	2471.3	2441.2
57.5°	653.9	662.5	686.1	681.8	681.8	664.6	660.3	660.3	1998.1	2327.2	2297.1
60°	593.6	602.2	628.0	636.6	643.1	638.8	634.5	632.3	623.7	2105.7	2144.4
62.5°	531.3	539.9	548.5	576.4	585.0	595.8	608.7	602.2	593.6	593.6	1983.1
65°	464.6	477.5	481.8	507.6	518.4	537.7	548.5	563.5	559.2	557.1	567.8
67.5°	406.5	421.6	423.7	434.5	453.8	462.4	475.3	503.3	516.2	520.5	524.8
70°	357.0	365.6	372.1	376.4	389.3	391.5	415.1	434.5	453.8	475.3	481.8
72.5°	307.6	314.0	326.9	322.6	326.9	335.5	348.4	361.3	380.7	410.8	430.2
75°	251.6	255.9	264.6	268.9	277.5	283.9	292.5	303.3	320.5	335.5	361.3
77.5°	202.2	204.3	210.8	212.9	221.5	228.0	243.0	249.5	260.3	271.0	286.1
80°	163.5	163.5	165.6	165.6	172.1	178.5	189.3	195.7	208.6	217.2	217.2
82.5°	124.7	124.7	131.2	131.2	135.5	135.5	142.0	142.0	148.4	152.7	157.0
85°	88.2	90.3	94.6	92.5	96.8	94.6	98.9	103.2	105.4	103.2	101.1
87.5°	58.1	58.1	62.4	60.2	62.4	62.4	66.7	66.7	68.8	68.8	66.7
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4820.0	4787.8	4768.4	4744.7	4738.3	4731.8	4740.4	4740.4	4727.5	4716.8	4697.4
5°	4931.9	4897.4	4860.9	4822.2	4785.6	4746.9	4731.8	4729.7	4706.0	4693.1	4686.7
7.5°	4989.9	4972.7	4931.9	4878.1	4822.2	4753.3	4723.2	4706.0	4682.4	4678.1	4678.1
10°	4996.4	4977.0	4955.5	4916.8	4852.3	4761.9	4703.9	4669.5	4648.0	4663.0	4691.0
12.5°	4934.0	4970.6	4951.2	4925.4	4873.8	4764.1	4680.2	4628.6	4622.1	4660.9	4734.0
15°	4774.9	4882.4	4936.2	4910.4	4869.5	4759.8	4641.5	4581.3	4581.3	4660.9	4755.5
17.5°	4654.4	4738.3	4869.5	4891.0	4843.7	4751.2	4604.9	4534.0	4553.3	4669.5	4770.5
20°	4555.5	4607.1	4734.0	4854.4	4809.3	4731.8	4551.2	4478.0	4516.8	4656.6	4792.1
22.5°	4400.6	4503.8	4581.3	4759.8	4774.9	4695.3	4497.4	4409.2	4486.6	4656.6	4781.3
25°	4250.0	4374.8	4456.5	4630.7	4723.2	4650.1	4447.9	4336.1	4454.4	4650.1	4772.7
27.5°	4144.7	4202.7	4351.1	4475.9	4645.8	4589.9	4381.2	4256.5	4413.5	4615.7	4723.2
30°	4032.8	4071.5	4217.8	4336.1	4542.6	4521.1	4312.4	4168.3	4361.9	4583.4	4594.2
32.5°	3910.2	3953.2	4028.5	4200.6	4398.5	4456.5	4235.0	4080.1	4306.0	4534.0	4443.6
35°	3785.5	3817.7	3878.0	4062.9	4230.7	4359.7	4140.4	3979.0	4267.3	4458.7	4299.5
37.5°	3660.7	3695.1	3746.8	3901.6	4054.3	4269.4	4058.6	3878.0	4196.3	4325.3	4149.0
40°	3542.4	3561.8	3615.6	3712.3	3908.1	4176.9	3966.1	3772.6	4123.1	4155.4	3944.6
42.5°	3325.2	3422.0	3471.4	3548.9	3742.5	4050.0	3858.6	3660.7	4041.4	3985.5	3740.3
45°	3090.7	3301.5	3323.0	3400.5	3596.2	3914.5	3757.5	3551.0	3964.0	3839.2	3546.7
47.5°	2899.3	3052.0	3176.8	3241.3	3422.0	3755.4	3662.9	3458.5	3847.8	3654.3	3357.5
50°	2729.4	2811.1	3037.0	3084.3	3213.3	3563.9	3551.0	3351.0	3686.5	3422.0	3172.5
52.5°	2563.8	2621.9	2826.2	2927.3	3032.7	3357.5	3417.7	3245.6	3510.2	3189.7	2985.4
55°	2419.7	2439.0	2550.9	2763.8	2858.5	3148.8	3271.4	3123.0	3286.5	2968.2	2804.7
57.5°	2271.3	2254.1	2335.8	2609.0	2677.8	2935.9	3116.6	2998.3	3105.8	2742.3	2617.6
60°	2116.4	2092.8	2127.2	2307.8	2486.4	2725.1	2933.7	2860.6	2886.4	2518.6	2408.9
62.5°	1955.1	1931.4	1920.7	2034.7	2299.2	2507.9	2748.8	2707.9	2617.6	2314.3	2150.8
65°	1787.3	1763.7	1746.5	1791.6	2092.8	2226.1	2542.3	2531.5	2322.9	2099.2	1811.0
67.5°	544.2	1604.5	1568.0	1565.8	1763.7	1970.2	2318.6	2301.4	2026.1	1869.1	1559.4
70°	490.4	1301.3	1383.0	1363.6	1449.7	1709.9	2062.6	2049.7	1737.9	1499.1	1378.7
72.5°	449.5	460.3	1221.7	1200.2	1219.5	1454.0	1795.9	1761.5	1473.3	1183.0	1191.6
75°	385.0	404.4	421.6	1013.0	987.2	1204.5	1505.6	1451.8	1215.2	976.5	995.8
77.5°	314.0	337.7	350.6	737.7	798.0	858.2	1202.3	1131.3	836.7	780.8	372.1
80°	234.4	253.8	275.3	294.7	606.5	600.1	892.6	821.6	582.9	486.1	290.4
82.5°	172.1	178.5	191.4	212.9	240.9	402.2	574.3	505.4	404.4	221.5	200.0
85°	107.5	116.1	122.6	129.1	146.3	240.9	283.9	225.8	169.9	135.5	126.9
87.5°	68.8	68.8	66.7	68.8	71.0	86.0	96.8	92.5	73.1	68.8	68.8
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4675.9	4645.8	4645.8	4637.2	4643.7	4643.7	4641.5	4643.7	4658.7	4667.3	4682.4
5°	4673.8	4665.2	4684.5	4708.2	4736.1	4770.5	4779.2	4809.3	4837.2	4873.8	4912.5
7.5°	4701.7	4731.8	4768.4	4807.1	4863.0	4903.9	4940.5	4977.0	5002.8	5037.3	5058.8
10°	4742.6	4802.8	4865.2	4914.7	4974.9	5009.3	5033.0	5037.3	5000.7	4942.6	4895.3
12.5°	4800.7	4871.6	4929.7	4977.0	5005.0	4992.1	4923.3	4852.3	4811.4	4751.2	4667.3
15°	4850.1	4914.7	4974.9	4955.5	4880.2	4809.3	4755.5	4671.6	4589.9	4534.0	4497.4
17.5°	4871.6	4934.0	4912.5	4811.4	4740.4	4658.7	4549.0	4484.5	4430.7	4387.7	4366.2
20°	4884.5	4873.8	4757.6	4684.5	4546.9	4471.6	4400.6	4340.4	4299.5	4278.0	4273.7
22.5°	4850.1	4718.9	4620.0	4488.8	4387.7	4325.3	4269.4	4219.9	4192.0	4174.8	4164.0
25°	4736.1	4583.4	4437.2	4333.9	4247.9	4194.1	4151.1	4110.2	4075.8	4067.2	4045.7
27.5°	4577.0	4452.2	4258.7	4179.1	4103.8	4078.0	4030.7	3989.8	3959.7	3933.9	3865.0
30°	4445.8	4247.9	4108.1	4035.0	3989.8	3959.7	3905.9	3862.9	3811.3	3716.6	3677.9
32.5°	4284.5	4088.7	3955.4	3914.5	3858.6	3832.8	3772.6	3677.9	3598.3	3559.6	3557.5
35°	4075.8	3914.5	3817.7	3781.2	3736.0	3693.0	3568.2	3482.2	3443.5	3447.8	3480.0
37.5°	3901.6	3757.5	3695.1	3643.5	3591.9	3482.2	3376.8	3335.9	3346.7	3368.2	3383.3
40°	3725.2	3615.6	3544.6	3503.7	3387.6	3280.0	3224.1	3239.2	3258.5	3273.6	3292.9
42.5°	3553.2	3475.7	3404.8	3325.2	3166.0	3108.0	3120.9	3140.2	3157.4	3178.9	3198.3
45°	3389.7	3320.9	3239.2	3058.5	2978.9	2994.0	3013.3	3028.4	3054.2	3069.2	3088.6
47.5°	3234.9	3161.7	3017.6	2858.5	2849.9	2880.0	2897.2	2916.5	2935.9	2897.2	1598.1
50°	3060.6	2985.4	2766.0	2705.7	2725.1	2753.1	2774.6	2793.9	2488.5	989.4	761.4
52.5°	2888.6	2697.1	2557.3	2574.5	2593.9	2626.2	2641.2	1961.6	780.8	744.2	746.3
55°	2697.1	2452.0	2411.1	2432.6	2449.8	2482.1	1645.4	720.5	716.2	714.1	731.3
57.5°	2396.0	2247.6	2264.8	2286.3	2303.5	1626.0	701.2	696.9	699.0	701.2	703.3
60°	2127.2	2094.9	2114.3	2133.6	1509.9	677.5	664.6	666.8	675.4	668.9	651.7
62.5°	1914.2	1940.1	1959.4	1716.4	643.1	636.6	643.1	636.6	621.6	610.8	589.3
65°	1750.8	1776.6	1791.6	604.4	602.2	610.8	604.4	582.9	559.2	529.1	522.7
67.5°	1578.7	1604.5	574.3	559.2	567.8	557.1	531.3	505.4	488.2	462.4	451.7
70°	1400.2	600.1	520.5	518.4	503.3	486.1	458.1	432.3	410.8	400.1	389.3
72.5°	1010.9	475.3	468.9	451.7	425.9	402.2	378.5	363.5	352.7	346.3	339.8
75°	421.6	413.0	393.6	363.5	337.7	326.9	309.7	299.0	294.7	281.8	277.5
77.5°	352.7	335.5	307.6	286.1	271.0	264.6	251.6	238.7	232.3	230.1	221.5
80°	271.0	247.3	234.4	223.7	219.4	204.3	189.3	182.8	178.5	176.4	169.9
82.5°	185.0	176.4	167.8	152.7	152.7	146.3	139.8	135.5	131.2	131.2	126.9
85°	120.4	114.0	111.8	105.4	105.4	101.1	98.9	96.8	94.6	92.5	90.3
87.5°	68.8	68.8	71.0	68.8	68.8	66.7	64.5	62.4	60.2	60.2	55.9
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4701.7	4723.2	4727.5	4800.7	4841.5	4839.4	4826.5	4865.2	4841.5	4828.6	4841.5
5°	4951.2	4977.0	4998.5	5078.1	5106.1	5119.0	5116.8	5138.3	5121.1	5106.1	5106.1
7.5°	5073.8	5082.4	5091.0	5071.7	5058.8	5037.3	5005.0	4957.7	4934.0	4908.2	4875.9
10°	4871.6	4843.7	4854.4	4815.7	4783.5	4759.8	4729.7	4691.0	4658.7	4635.0	4598.5
12.5°	4624.3	4622.1	4626.4	4632.9	4600.6	4581.3	4557.6	4529.7	4506.0	4480.2	4450.1
15°	4473.7	4475.9	4493.1	4486.6	4475.9	4465.1	4439.3	4430.7	4409.2	4381.2	4364.0
17.5°	4366.2	4376.9	4394.2	4385.6	4368.3	4357.6	4338.2	4318.9	4299.5	4278.0	4252.2
20°	4271.6	4282.3	4293.1	4282.3	4250.0	4235.0	4209.2	4149.0	4105.9	4062.9	4024.2
22.5°	4168.3	4174.8	4166.2	4131.8	4050.0	4011.3	3981.2	3964.0	3927.4	3903.8	3880.1
25°	4039.3	4002.7	3946.8	3908.1	3875.8	3858.6	3845.7	3843.5	3839.2	3834.9	3824.2
27.5°	3828.5	3815.6	3785.5	3770.4	3772.6	3779.0	3781.2	3787.6	3781.2	3772.6	3764.0
30°	3671.5	3677.9	3680.1	3684.4	3695.1	3701.6	3703.7	3712.3	3708.0	3701.6	3697.3
32.5°	3572.5	3587.6	3596.2	3609.1	3615.6	3626.3	3626.3	3639.2	3626.3	3624.2	3619.9
35°	3490.8	3503.7	3508.0	3527.4	3533.8	3544.6	3544.6	3555.3	3544.6	3434.9	2712.2
37.5°	3409.1	3422.0	3430.6	3447.8	3449.9	3456.4	3189.7	2333.7	1505.6	1165.8	890.4
40°	3312.3	3327.3	3335.9	3342.4	2348.7	1490.5	1025.9	834.5	834.5	841.0	847.4
42.5°	3209.0	3219.8	2243.3	1305.6	813.0	810.9	817.3	823.8	830.2	838.8	847.4
45°	2522.9	1273.3	808.7	789.4	795.8	804.4	813.0	821.6	832.4	841.0	845.3
47.5°	828.1	776.5	787.2	778.6	789.4	800.1	808.7	817.3	819.5	821.6	819.5
50°	765.7	765.7	772.1	772.1	780.8	785.1	785.1	785.1	776.5	774.3	767.8
52.5°	739.9	757.1	748.5	752.8	748.5	742.0	735.6	729.1	716.2	711.9	703.3
55°	727.0	733.4	711.9	705.5	696.9	679.7	671.1	662.5	651.7	647.4	636.6
57.5°	696.9	681.8	658.2	647.4	632.3	615.1	606.5	600.1	589.3	585.0	578.6
60°	640.9	610.8	595.8	582.9	565.7	550.6	544.2	539.9	531.3	529.1	522.7
62.5°	572.1	546.3	533.4	516.2	503.3	494.7	488.2	486.1	477.5	477.5	473.2
65°	496.8	483.9	473.2	456.0	449.5	440.9	438.8	436.6	432.3	430.2	425.9
67.5°	436.6	428.0	413.0	404.4	400.1	393.6	389.3	385.0	376.4	372.1	365.6
70°	382.8	376.4	361.3	354.9	346.3	335.5	329.1	324.8	318.3	314.0	307.6
72.5°	331.2	311.9	301.1	294.7	288.2	277.5	275.3	271.0	264.6	262.4	255.9
75°	266.7	251.6	245.2	240.9	234.4	228.0	228.0	228.0	221.5	219.4	217.2
77.5°	212.9	204.3	200.0	195.7	193.6	189.3	182.8	180.7	174.2	174.2	172.1
80°	163.5	159.2	154.9	152.7	150.6	146.3	142.0	139.8	133.4	133.4	131.2
82.5°	120.4	118.3	116.1	114.0	111.8	109.7	103.2	101.1	96.8	96.8	94.6
85°	86.0	83.9	79.6	77.4	77.4	75.3	68.8	66.7	62.4	62.4	62.4
87.5°	53.8	51.6	49.5	47.3	45.2	43.0	38.7	36.6	36.6	32.3	30.1
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4815.7	4852.3	4848.0	4873.8	4880.2	4893.1	4897.4	4899.6	4867.3	4893.1	4895.3
5°	5099.6	5106.1	5110.4	5121.1	5131.9	5134.0	5123.3	5110.4	5114.7	5106.1	5084.6
7.5°	4871.6	4839.4	4832.9	4824.3	4820.0	4815.7	4796.4	4813.6	4794.2	4785.6	4755.5
10°	4592.0	4561.9	4559.8	4559.8	4566.2	4564.1	4559.8	4551.2	4568.4	4557.6	4551.2
12.5°	4445.8	4435.0	4441.5	4437.2	4454.4	4458.7	4454.4	4454.4	4450.1	4441.5	4445.8
15°	4357.6	4349.0	4355.4	4349.0	4361.9	4364.0	4353.3	4359.7	4349.0	4338.2	4333.9
17.5°	4241.4	4222.1	4207.0	4185.5	4187.7	4183.4	4170.5	4170.5	4159.7	4131.8	4133.9
20°	4017.8	3998.4	3989.8	3989.8	4000.6	4004.9	4002.7	4007.0	3996.2	3991.9	3974.7
22.5°	3878.0	3875.8	3880.1	3890.9	3908.1	3931.7	3933.9	3933.9	3933.9	3931.7	3910.2
25°	3828.5	3828.5	3832.8	3847.8	3860.7	3878.0	3882.3	3886.6	3882.3	3882.3	3862.9
27.5°	3772.6	3768.3	3776.9	3791.9	3807.0	3819.9	3830.6	3832.8	3826.3	3826.3	3832.8
30°	3703.7	3701.6	3712.3	3727.4	3740.3	3753.2	3764.0	3772.6	3764.0	3764.0	3757.5
32.5°	3632.8	3632.8	3637.1	3546.7	3288.6	2961.7	2968.2	2778.9	2647.7	2482.1	2701.4
35°	2267.0	1649.7	1417.4	1200.2	1047.5	948.5	946.4	914.1	899.0	888.3	886.1
37.5°	856.0	860.3	868.9	873.2	879.7	884.0	886.1	886.1	886.1	886.1	884.0
40°	853.9	862.5	868.9	875.4	881.8	886.1	886.1	888.3	890.4	890.4	890.4
42.5°	856.0	864.6	873.2	879.7	884.0	886.1	888.3	890.4	890.4	890.4	890.4
45°	853.9	858.2	858.2	860.3	860.3	860.3	862.5	862.5	860.3	858.2	862.5
47.5°	821.6	821.6	815.2	813.0	810.9	806.6	808.7	806.6	804.4	802.3	806.6
50°	765.7	757.1	752.8	748.5	746.3	742.0	744.2	742.0	739.9	735.6	742.0
52.5°	699.0	696.9	688.3	684.0	681.8	684.0	679.7	677.5	675.4	673.2	675.4
55°	634.5	625.9	623.7	619.4	617.3	619.4	617.3	615.1	613.0	610.8	613.0
57.5°	576.4	570.0	567.8	563.5	563.5	563.5	563.5	561.4	559.2	557.1	559.2
60°	520.5	516.2	514.0	514.0	511.9	511.9	511.9	509.7	507.6	507.6	509.7
62.5°	473.2	473.2	466.7	464.6	464.6	466.7	464.6	462.4	460.3	458.1	462.4
65°	423.7	415.1	413.0	408.7	404.4	406.5	404.4	402.2	400.1	397.9	402.2
67.5°	363.5	361.3	352.7	348.4	346.3	348.4	346.3	344.1	342.0	339.8	344.1
70°	305.4	305.4	296.8	294.7	292.5	292.5	290.4	290.4	288.2	286.1	290.4
72.5°	253.8	253.8	251.6	247.3	245.2	243.0	240.9	238.7	238.7	240.9	240.9
75°	210.8	206.5	197.9	200.0	197.9	195.7	195.7	193.6	191.4	195.7	193.6
77.5°	165.6	163.5	157.0	159.2	157.0	154.9	154.9	152.7	150.6	152.7	152.7
80°	124.7	124.7	122.6	120.4	120.4	118.3	116.1	116.1	114.0	116.1	116.1
82.5°	90.3	90.3	88.2	86.0	83.9	83.9	81.7	81.7	81.7	81.7	81.7
85°	58.1	55.9	55.9	51.6	51.6	51.6	49.5	49.5	49.5	49.5	49.5
87.5°	28.0	28.0	25.8	25.8	23.7	21.5	21.5	19.4	19.4	21.5	21.5
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4856.6	4884.5	4860.9	4871.6	4873.8	4910.4	4908.2	4916.8	4901.8	4884.5	4860.9
5°	5103.9	5091.0	5073.8	5114.7	5093.2	5119.0	5127.6	5144.8	5144.8	5142.6	5123.3
7.5°	4787.8	4759.8	4781.3	4796.4	4802.8	4785.6	4820.0	4858.7	4891.0	4910.4	4912.5
10°	4540.4	4549.0	4546.9	4553.3	4568.4	4566.2	4587.7	4609.2	4617.8	4630.7	4635.0
12.5°	4424.3	4422.1	4426.4	4441.5	4450.1	4447.9	4469.4	4482.3	4486.6	4488.8	4486.6
15°	4331.8	4316.7	4327.5	4329.6	4336.1	4336.1	4361.9	4381.2	4389.9	4394.2	4389.9
17.5°	4157.6	4121.0	4155.4	4155.4	4179.1	4174.8	4215.6	4247.9	4265.1	4278.0	4278.0
20°	3985.5	3968.3	3981.2	3976.9	3994.1	3991.9	4017.8	4039.3	4054.3	4065.1	4078.0
22.5°	3916.7	3921.0	3901.6	3903.8	3903.8	3901.6	3914.5	3925.3	3929.6	3936.0	3931.7
25°	3871.5	3875.8	3869.4	3858.6	3854.3	3858.6	3865.0	3878.0	3880.1	3875.8	3860.7
27.5°	3826.3	3813.4	3824.2	3804.8	3800.5	3809.1	3817.7	3819.9	3822.0	3822.0	3809.1
30°	3757.5	3746.8	3757.5	3748.9	3740.3	3748.9	3755.4	3755.4	3759.7	3761.8	3746.8
32.5°	2626.2	2647.7	2996.1	3206.9	3503.7	3654.3	3682.2	3682.2	3686.5	3686.5	3673.6
35°	894.7	896.9	970.0	1051.8	1226.0	1441.1	1722.8	1869.1	2363.8	2955.2	3527.4
37.5°	884.0	881.8	879.7	877.5	875.4	873.2	868.9	866.8	879.7	1043.2	1415.2
40°	888.3	886.1	881.8	879.7	877.5	873.2	871.1	866.8	862.5	858.2	853.9
42.5°	888.3	886.1	884.0	881.8	879.7	877.5	873.2	868.9	864.6	858.2	851.7
45°	858.2	858.2	860.3	860.3	862.5	862.5	862.5	860.3	860.3	858.2	849.6
47.5°	802.3	802.3	808.7	808.7	813.0	817.3	817.3	821.6	828.1	832.4	834.5
50°	737.7	737.7	744.2	746.3	750.6	757.1	763.5	765.7	772.1	780.8	789.4
52.5°	673.2	673.2	679.7	679.7	684.0	690.4	696.9	699.0	707.6	716.2	727.0
55°	613.0	613.0	617.3	619.4	621.6	625.9	632.3	632.3	640.9	647.4	658.2
57.5°	559.2	563.5	563.5	563.5	565.7	570.0	574.3	574.3	580.7	587.2	595.8
60°	507.6	511.9	511.9	511.9	514.0	516.2	520.5	520.5	524.8	529.1	537.7
62.5°	460.3	464.6	464.6	466.7	466.7	468.9	473.2	471.0	475.3	477.5	483.9
65°	400.1	404.4	406.5	408.7	410.8	415.1	421.6	419.4	425.9	430.2	436.6
67.5°	342.0	346.3	346.3	348.4	350.6	354.9	359.2	359.2	365.6	369.9	378.5
70°	288.2	292.5	292.5	294.7	296.8	301.1	305.4	303.3	309.7	314.0	320.5
72.5°	238.7	243.0	243.0	245.2	245.2	249.5	253.8	258.1	258.1	262.4	266.7
75°	193.6	195.7	197.9	197.9	200.0	202.2	206.5	210.8	212.9	215.1	219.4
77.5°	152.7	154.9	157.0	157.0	159.2	161.3	163.5	172.1	176.4	178.5	178.5
80°	116.1	118.3	118.3	118.3	120.4	122.6	126.9	126.9	135.5	135.5	137.7
82.5°	81.7	83.9	83.9	83.9	86.0	90.3	92.5	94.6	98.9	101.1	101.1
85°	49.5	51.6	51.6	51.6	53.8	55.9	60.2	62.4	64.5	64.5	66.7
87.5°	19.4	21.5	23.7	23.7	25.8	28.0	30.1	32.3	34.4	34.4	36.6
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4835.1	4850.1	4835.1	4843.7	4854.4	4835.1	4789.9	4772.7	4766.2	4740.4	4723.2
5°	5103.9	5103.9	5097.5	5114.7	5112.5	5082.4	5035.1	5013.6	4992.1	4964.1	4942.6
7.5°	4912.5	4929.7	4940.5	5007.1	5050.2	5054.5	5084.6	5091.0	5099.6	5091.0	5078.1
10°	4637.2	4630.7	4660.9	4723.2	4759.8	4779.2	4837.2	4865.2	4888.8	4936.2	4985.6
12.5°	4482.3	4490.9	4503.8	4549.0	4583.4	4574.8	4598.5	4617.8	4645.8	4693.1	4764.1
15°	4379.1	4387.7	4400.6	4435.0	4456.5	4445.8	4458.7	4471.6	4490.9	4514.6	4557.6
17.5°	4267.3	4282.3	4297.4	4333.9	4353.3	4351.1	4361.9	4366.2	4372.6	4387.7	4417.8
20°	4093.0	4140.4	4170.5	4219.9	4247.9	4243.6	4263.0	4269.4	4278.0	4293.1	4306.0
22.5°	3933.9	3946.8	3961.8	4015.6	4062.9	4121.0	4133.9	4151.1	4172.6	4187.7	4200.6
25°	3843.5	3834.9	3841.4	3878.0	3903.8	3908.1	3927.4	3983.3	4041.4	4067.2	4097.3
27.5°	3789.8	3781.2	3779.0	3796.2	3800.5	3789.8	3785.5	3802.7	3845.7	3888.7	3979.0
30°	3731.7	3720.9	3712.3	3727.4	3733.8	3718.8	3690.8	3675.8	3701.6	3712.3	3748.9
32.5°	3662.9	3652.1	3647.8	3656.4	3660.7	3647.8	3617.7	3600.5	3596.2	3587.6	3596.2
35°	3585.4	3574.7	3568.2	3570.4	3579.0	3568.2	3542.4	3520.9	3510.2	3486.5	3469.3
37.5°	1847.6	2617.6	3398.3	3480.0	3488.7	3486.5	3460.7	3437.0	3426.3	3398.3	3389.7
40°	845.3	944.2	1417.4	1851.9	2671.3	3394.0	3370.4	3346.7	3327.3	3318.7	3286.5
42.5°	843.1	845.3	847.4	836.7	1036.7	1765.8	2606.8	3254.2	3241.3	3219.8	3196.1
45°	843.1	832.4	841.0	828.1	832.4	830.2	1034.6	1669.0	2970.3	3103.7	3092.9
47.5°	834.5	828.1	836.7	825.9	813.0	819.5	810.9	821.6	1281.9	2174.5	2978.9
50°	795.8	800.1	815.2	813.0	802.3	810.9	795.8	808.7	798.0	875.4	1686.3
52.5°	737.7	746.3	761.4	774.3	778.6	789.4	785.1	789.4	780.8	782.9	785.1
55°	668.9	679.7	692.6	711.9	720.5	737.7	750.6	757.1	767.8	765.7	748.5
57.5°	604.4	615.1	625.9	645.3	664.6	673.2	696.9	709.8	737.7	731.3	727.0
60°	544.2	552.8	563.5	567.8	591.5	606.5	628.0	640.9	677.5	686.1	699.0
62.5°	490.4	494.7	503.3	509.7	524.8	539.9	550.6	572.1	591.5	619.4	638.8
65°	440.9	445.2	451.7	456.0	458.1	479.6	486.1	509.7	516.2	546.3	563.5
67.5°	385.0	393.6	402.2	406.5	410.8	423.7	428.0	438.8	453.8	466.7	488.2
70°	326.9	333.4	342.0	348.4	357.0	365.6	378.5	385.0	395.8	404.4	421.6
72.5°	273.2	279.6	283.9	290.4	296.8	303.3	314.0	329.1	337.7	352.7	357.0
75°	221.5	228.0	232.3	236.6	243.0	247.3	251.6	266.7	275.3	288.2	301.1
77.5°	182.8	182.8	187.1	200.0	197.9	197.9	202.2	210.8	217.2	225.8	238.7
80°	142.0	144.1	146.3	157.0	159.2	161.3	159.2	165.6	172.1	174.2	182.8
82.5°	105.4	107.5	107.5	114.0	120.4	120.4	120.4	122.6	129.1	131.2	135.5
85°	71.0	73.1	75.3	77.4	81.7	83.9	86.0	86.0	90.3	92.5	94.6
87.5°	38.7	43.0	45.2	47.3	49.5	51.6	53.8	55.9	58.1	60.2	62.4
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1	4693.1
2.5°	4716.8	4706.0	4699.6	4682.4	4678.1	4650.1	4654.4	4650.1	4650.1	4656.6	4678.1
5°	4919.0	4867.3	4854.4	4817.9	4787.8	4736.1	4703.9	4686.7	4660.9	4650.1	4665.2
7.5°	5056.6	5017.9	4985.6	4953.4	4910.4	4850.1	4805.0	4753.3	4710.3	4669.5	4658.7
10°	5033.0	5076.0	5076.0	5056.6	5015.7	4955.5	4901.8	4837.2	4761.9	4697.4	4658.7
12.5°	4832.9	4908.2	4968.4	5013.6	5054.5	5013.6	4959.8	4908.2	4824.3	4729.7	4658.7
15°	4613.5	4691.0	4766.2	4860.9	4959.8	5000.7	4998.5	4938.3	4863.0	4764.1	4665.2
17.5°	4458.7	4512.4	4553.3	4656.6	4777.0	4882.4	4953.4	4957.7	4884.5	4796.4	4667.3
20°	4342.5	4381.2	4415.7	4473.7	4579.1	4708.2	4839.4	4912.5	4899.6	4802.8	4673.8
22.5°	4237.1	4265.1	4293.1	4336.1	4420.0	4503.8	4656.6	4807.1	4871.6	4792.1	4667.3
25°	4131.8	4161.9	4183.4	4213.5	4280.2	4349.0	4456.5	4643.7	4787.8	4783.5	4654.4
27.5°	4007.0	4047.9	4073.7	4114.5	4159.7	4211.3	4284.5	4460.8	4667.3	4740.4	4620.0
30°	3856.4	3916.7	3955.4	4000.6	4039.3	4084.4	4142.5	4250.0	4506.0	4656.6	4583.4
32.5°	3639.2	3746.8	3832.8	3875.8	3918.8	3957.5	4009.2	4099.5	4308.1	4542.6	4542.6
35°	3484.4	3533.8	3611.2	3736.0	3789.8	3828.5	3875.8	3946.8	4080.1	4407.1	4475.9
37.5°	3363.9	3383.3	3422.0	3544.6	3645.7	3708.0	3755.4	3800.5	3931.7	4222.1	4389.9
40°	3273.6	3267.1	3262.8	3320.9	3465.0	3563.9	3617.7	3662.9	3764.0	4000.6	4275.9
42.5°	3168.2	3161.7	3140.2	3155.3	3226.3	3391.9	3473.6	3523.1	3606.9	3768.3	4151.1
45°	3058.5	3047.7	3039.1	3024.1	3049.9	3142.4	3310.1	3383.3	3430.6	3574.7	3994.1
47.5°	2946.6	2931.6	2920.8	2907.9	2892.9	2935.9	3095.0	3226.3	3308.0	3398.3	3804.8
50°	2787.5	2806.8	2793.9	2778.9	2766.0	2757.4	2824.0	3039.1	3140.2	3213.3	3574.7
52.5°	1314.2	2555.2	2662.7	2647.7	2630.5	2615.4	2630.5	2793.9	2976.8	3034.8	3297.2
55°	748.5	1137.8	2368.1	2503.6	2488.5	2467.0	2454.1	2510.0	2783.2	2860.6	3043.4
57.5°	720.5	722.7	1045.3	2256.2	2340.1	2320.7	2305.7	2318.6	2550.9	2682.1	2821.9
60°	696.9	696.9	696.9	998.0	2157.3	2163.7	2144.4	2122.9	2224.0	2482.1	2598.2
62.5°	645.3	658.2	664.6	664.6	985.1	1998.1	1978.8	1972.3	1976.6	2241.2	2374.5
65°	578.6	608.7	621.6	630.2	630.2	1034.6	1808.9	1798.1	1783.0	1884.1	2148.7
67.5°	505.4	535.6	563.5	580.7	582.9	602.2	1079.7	1619.6	1598.1	1600.2	1907.8
70°	430.2	456.0	486.1	511.9	535.6	546.3	563.5	1344.3	1415.2	1385.1	1634.6
72.5°	372.1	382.8	404.4	430.2	458.1	483.9	499.0	535.6	1228.1	1195.9	1243.2
75°	309.7	318.3	333.4	350.6	372.1	402.2	428.0	453.8	651.7	1002.3	995.8
77.5°	240.9	255.9	273.2	283.9	294.7	316.2	350.6	376.4	402.2	677.5	798.0
80°	185.0	195.7	204.3	215.1	228.0	243.0	255.9	286.1	316.2	339.8	610.8
82.5°	137.7	144.1	150.6	154.9	159.2	167.8	191.4	202.2	221.5	243.0	288.2
85°	96.8	101.1	105.4	107.5	109.7	111.8	120.4	122.6	142.0	146.3	174.2
87.5°	62.4	64.5	68.8	71.0	71.0	73.1	75.3	75.3	75.3	71.0	86.0
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-LD5-130HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	4693.1	4693.1
2.5°	4695.3	4729.7
5°	4688.8	4734.0
7.5°	4671.6	4714.6
10°	4645.8	4697.4
12.5°	4617.8	4667.3
15°	4594.2	4630.7
17.5°	4568.4	4589.9
20°	4534.0	4551.2
22.5°	4499.5	4490.9
25°	4460.8	4441.5
27.5°	4411.4	4374.8
30°	4366.2	4301.7
32.5°	4323.2	4217.8
35°	4265.1	4131.8
37.5°	4204.9	4043.6
40°	4133.9	3942.5
42.5°	4058.6	3841.4
45°	3964.0	3744.6
47.5°	3880.1	3628.5
50°	3764.0	3503.7
52.5°	3622.0	3387.6
55°	3454.2	3245.6
57.5°	3273.6	3097.2
60°	3080.0	2927.3
62.5°	2845.6	2750.9
65°	2570.2	2548.7
67.5°	2211.1	2325.1
70°	1813.2	2069.1
72.5°	1516.3	1798.1
75°	1243.2	1494.8
77.5°	985.1	1172.2
80°	615.1	858.2
82.5°	413.0	563.5
85°	249.5	268.9
87.5°	96.8	98.9
90°	0.0	0.0

(END OF REPORT)