

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-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-LD5-130HL-RW-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

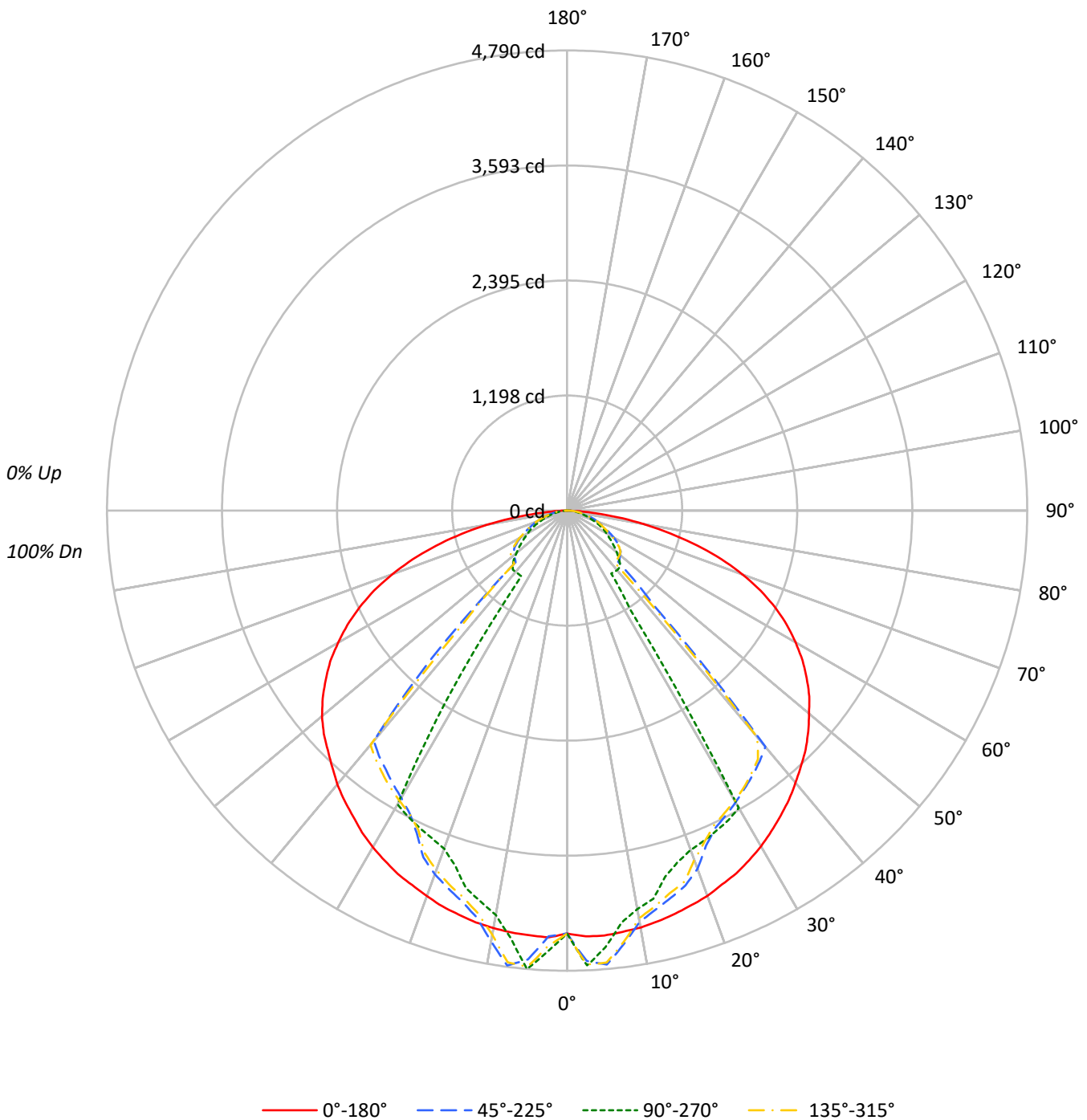
Lumens per Lamp: N/A  
Luminaire Lumens: 8816.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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-L940-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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89					87				
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77					75				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67					65				
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59					57				
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53					51				
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47					46				
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43					41				
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39					37				
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36					34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33					31				

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

	0°	90°	180°	270°
0°	17788	17788	17788	17788
5°	17987	17922	17979	18810
10°	18029	16204	18054	16452
15°	18095	14992	18137	15468
20°	18253	14220	18253	14166
25°	18440	13947	18467	13817
30°	18659	13702	18705	13539
35°	18911	3121	18951	3255
40°	19254	3245	19370	3350
45°	19763	3227	19831	3344
50°	20282	2918	20556	2997
55°	20979	2591	21146	2628
60°	21606	2302	21654	2332
65°	22117	2009	22061	1977
70°	21986	1619	21917	1560
75°	20686	1246	20833	1194
80°	17206	885	17897	811
85°	9920	530	10475	407



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.2	4.9
10°-20°	1190.9	13.5
20°-30°	1764.0	20.0
30°-40°	1777.4	20.2
40°-50°	1388.4	15.7
50°-60°	1072.5	12.2
60°-70°	720.0	8.2
70°-80°	367.3	4.2
80°-90°	102.2	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°	3388.1	38.4
0°-40°	5165.6	58.6
0°-60°	7626.5	86.5
0°-90°	8816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4402	4402	4402	4402	4402	
5°	4441	4564	4439	4790	4441	422
15°	4344	3944	4354	4070	4344	1229
25°	4166	3676	4172	3642	4166	1922
35°	3876	799	3884	833	3876	2429
45°	3513	777	3525	805	3513	2709
55°	3045	565	3069	573	3045	2719
65°	2391	379	2385	373	2391	2351
75°	1402	192	1412	184	1402	1466
85°	252	60	266	46	252	347
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4436.8	4452.9	4465.0	4473.1	4477.1	4477.1	4479.2	4481.2	4507.4	4519.5	4527.6
5°	4440.8	4457.0	4481.2	4513.5	4541.7	4565.9	4586.1	4614.3	4642.6	4672.8	4682.9
7.5°	4422.7	4442.8	4491.3	4549.8	4604.2	4642.6	4668.8	4687.0	4701.1	4703.1	4713.2
10°	4406.5	4442.8	4509.4	4586.1	4654.7	4701.1	4701.1	4691.0	4705.1	4650.7	4596.2
12.5°	4378.3	4418.6	4509.4	4610.3	4674.9	4693.0	4685.0	4644.6	4561.9	4495.3	4465.0
15°	4344.0	4398.4	4511.4	4624.4	4678.9	4685.0	4608.3	4505.4	4442.8	4402.5	4352.0
17.5°	4305.6	4378.3	4513.5	4626.4	4646.6	4618.4	4473.1	4408.5	4344.0	4249.1	4180.5
20°	4269.3	4339.9	4497.3	4598.2	4610.3	4483.2	4370.2	4301.6	4192.6	4109.9	4079.7
22.5°	4212.8	4295.5	4483.2	4559.9	4513.5	4366.2	4257.2	4148.3	4049.4	4025.2	3988.9
25°	4166.4	4253.2	4450.9	4513.5	4390.4	4259.2	4132.1	4005.0	3958.6	3924.3	3892.0
27.5°	4103.9	4210.8	4408.5	4428.7	4259.2	4144.2	3958.6	3902.1	3859.7	3821.4	3807.3
30°	4035.3	4166.4	4350.0	4311.7	4150.3	3980.8	3843.6	3791.1	3760.9	3720.5	3704.4
32.5°	3956.6	4099.8	4285.5	4176.5	4033.3	3821.4	3732.6	3692.3	3651.9	3621.7	3520.8
35°	3875.9	4041.3	4208.8	4047.4	3892.0	3700.3	3621.7	3585.3	3547.0	3436.0	3331.1
37.5°	3793.2	3976.8	4116.0	3908.2	3704.4	3575.3	3508.7	3468.3	3381.6	3240.3	3187.9
40°	3698.3	3898.1	3996.9	3764.9	3541.0	3448.1	3385.6	3345.2	3149.5	3087.0	3070.8
42.5°	3603.5	3821.4	3851.7	3625.7	3405.8	3313.0	3260.5	3127.3	2994.2	2961.9	2967.9
45°	3512.7	3738.7	3692.3	3428.0	3264.5	3187.9	3099.1	2915.5	2844.9	2861.0	2865.0
47.5°	3403.8	3639.8	3524.8	3230.2	3119.3	3042.6	2844.9	2733.9	2723.8	2746.0	2758.1
50°	3286.7	3528.8	3347.3	3050.7	2961.9	2871.1	2647.1	2590.6	2602.8	2624.9	2639.1
52.5°	3177.8	3403.8	3163.7	2883.2	2806.5	2598.7	2447.4	2457.5	2477.7	2503.9	2512.0
55°	3044.6	3252.4	2967.9	2713.7	2641.1	2368.7	2300.1	2324.3	2344.5	2366.7	2382.8
57.5°	2905.4	3078.9	2735.9	2524.1	2407.0	2164.9	2171.0	2187.1	2201.2	2227.5	920.0
60°	2746.0	2881.2	2481.7	2348.5	2116.5	2003.5	2009.6	2037.8	2051.9	1146.0	633.5
62.5°	2580.6	2651.2	2251.7	2148.8	1850.2	1842.1	1870.3	1882.5	1281.2	605.3	593.2
65°	2390.9	2376.8	2025.7	1862.3	1668.6	1676.7	1706.9	1646.4	567.0	567.0	562.9
67.5°	2181.1	2096.3	1805.8	1541.5	1493.1	1511.2	1543.5	538.7	524.6	528.6	514.5
70°	1941.0	1821.9	1577.8	1305.4	1321.6	1339.7	520.6	488.3	482.2	472.1	443.9
72.5°	1686.7	1523.3	1291.3	1133.9	1144.0	718.3	456.0	439.8	419.7	399.5	369.2
75°	1402.3	1190.4	948.3	948.3	962.4	409.6	397.5	371.2	349.1	322.8	304.7
77.5°	1099.6	916.0	736.4	764.7	373.3	343.0	320.8	292.6	274.4	258.3	248.2
80°	805.0	639.6	554.9	496.3	290.5	260.3	238.1	221.9	213.9	203.8	191.7
82.5°	528.6	385.4	385.4	234.0	203.8	179.6	173.5	161.4	153.3	147.3	141.2
85°	252.2	224.0	169.5	143.3	127.1	115.0	111.0	104.9	104.9	102.9	100.9
87.5°	92.8	100.9	74.7	72.6	68.6	66.6	68.6	68.6	70.6	68.6	66.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4547.8	4563.9	4576.0	4596.2	4622.4	4644.6	4664.8	4693.0	4737.4	4749.5	4759.6
5°	4682.9	4689.0	4703.1	4719.3	4723.3	4733.4	4731.4	4743.5	4749.5	4763.6	4733.4
7.5°	4691.0	4658.7	4620.4	4586.1	4561.9	4539.7	4525.6	4547.8	4559.9	4569.9	4539.7
10°	4521.5	4483.2	4461.0	4440.8	4416.6	4382.3	4335.9	4346.0	4342.0	4342.0	4331.9
12.5°	4414.6	4360.1	4303.6	4253.2	4231.0	4229.0	4231.0	4253.2	4253.2	4251.2	4239.1
15°	4247.1	4194.7	4166.4	4154.3	4154.3	4148.3	4148.3	4172.5	4166.4	4166.4	4160.4
17.5°	4136.2	4099.8	4079.7	4065.5	4059.5	4069.6	4081.7	4091.8	4093.8	4085.7	4053.4
20°	4045.4	4011.1	3986.9	3990.9	3988.9	3994.9	4001.0	3966.7	3924.3	3867.8	3841.6
22.5°	3950.5	3924.3	3906.1	3906.1	3881.9	3843.6	3787.1	3775.0	3768.9	3742.7	3720.5
25°	3859.7	3829.5	3803.2	3722.5	3672.1	3678.2	3668.1	3647.9	3645.9	3643.9	3651.9
27.5°	3768.9	3690.3	3589.4	3577.3	3557.1	3555.1	3567.2	3577.3	3577.3	3585.3	3595.4
30°	3581.3	3490.5	3472.4	3450.2	3458.2	3486.5	3492.5	3506.7	3510.7	3524.8	3532.9
32.5°	3409.8	3369.5	3353.3	3363.4	3389.6	3413.8	3428.0	3434.0	3444.1	3456.2	3466.3
35°	3270.6	3258.5	3272.6	3294.8	3321.0	3341.2	3353.3	3365.4	3375.5	3385.6	3393.7
37.5°	3167.7	3175.8	3195.9	3224.2	3250.4	3266.6	3276.6	3290.8	3304.9	3317.0	3268.6
40°	3070.8	3091.0	3113.2	3143.5	3165.7	3181.8	3191.9	3210.1	3089.0	1398.2	766.7
42.5°	2986.1	3008.3	3024.4	3048.6	3072.9	3085.0	2996.2	1337.7	756.6	752.6	762.7
45°	2883.2	2901.4	2927.6	2945.7	2967.9	1949.0	744.5	752.6	740.5	748.5	752.6
47.5°	2778.3	2806.5	2820.7	2691.5	801.0	740.5	732.4	740.5	732.4	742.5	736.4
50°	2659.2	2693.5	1916.8	724.3	718.3	714.2	722.3	718.3	724.3	732.4	716.3
52.5°	2538.2	1571.7	702.1	698.1	702.1	698.1	712.2	702.1	704.2	696.1	675.9
55°	859.5	679.9	673.9	671.9	684.0	684.0	684.0	667.8	657.7	637.6	623.4
57.5°	657.7	657.7	655.7	657.7	653.7	649.7	631.5	617.4	603.3	575.0	567.0
60°	623.4	623.4	623.4	623.4	605.3	597.2	569.0	556.9	532.7	518.5	510.5
62.5°	595.2	591.2	573.0	567.0	546.8	524.6	508.4	496.3	472.1	464.1	458.0
65°	554.9	540.7	518.5	494.3	484.2	460.0	452.0	433.8	421.7	415.6	411.6
67.5°	488.3	468.1	449.9	433.8	415.6	407.6	397.5	383.4	375.3	371.2	367.2
70°	417.7	403.5	385.4	375.3	363.2	357.1	343.0	339.0	332.9	326.9	320.8
72.5°	349.1	341.0	332.9	318.8	314.8	310.7	296.6	288.5	280.5	272.4	268.3
75°	292.6	286.5	282.5	270.4	264.3	252.2	242.1	236.1	230.0	224.0	219.9
77.5°	240.1	236.1	224.0	215.9	211.9	201.8	197.7	199.7	195.7	187.6	183.6
80°	187.6	183.6	173.5	173.5	169.5	165.4	161.4	157.4	153.3	147.3	143.3
82.5°	143.3	139.2	135.2	131.1	127.1	125.1	123.1	119.0	115.0	111.0	109.0
85°	100.9	98.9	96.8	94.8	92.8	90.8	88.8	84.7	80.7	78.7	76.7
87.5°	68.6	66.6	64.6	62.5	60.5	58.5	56.5	54.5	50.4	48.4	46.4
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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4759.6	4769.7	4759.6	4737.4	4723.3	4717.2	4729.3	4729.3	4737.4	4747.5	4749.5
5°	4685.0	4660.7	4632.5	4604.2	4590.1	4582.1	4559.9	4563.9	4569.9	4574.0	4578.0
7.5°	4499.3	4467.0	4428.7	4392.4	4378.3	4366.2	4339.9	4339.9	4339.9	4342.0	4354.1
10°	4309.7	4295.5	4279.4	4255.2	4237.0	4231.0	4208.8	4214.8	4210.8	4216.9	4231.0
12.5°	4220.9	4204.8	4190.6	4166.4	4146.2	4138.2	4128.1	4134.1	4132.1	4142.2	4154.3
15°	4140.2	4132.1	4116.0	4097.8	4079.7	4063.5	4027.2	4015.1	4007.0	3996.9	4011.1
17.5°	4007.0	3950.5	3912.2	3884.0	3863.8	3849.7	3839.6	3839.6	3845.6	3851.7	3863.8
20°	3825.4	3809.3	3791.1	3760.9	3740.7	3732.6	3726.6	3726.6	3736.7	3744.7	3766.9
22.5°	3700.3	3698.3	3692.3	3678.2	3668.1	3668.1	3670.1	3674.1	3688.2	3700.3	3722.5
25°	3641.8	3649.9	3645.9	3637.8	3631.7	3633.8	3629.7	3633.8	3647.9	3660.0	3678.2
27.5°	3595.4	3607.5	3603.5	3591.4	3581.3	3585.3	3591.4	3587.4	3599.5	3613.6	3627.7
30°	3532.9	3534.9	3543.0	3528.8	3524.8	3530.9	3532.9	3536.9	3549.0	3559.1	3571.2
32.5°	3462.3	3478.4	3476.4	3462.3	3462.3	3468.3	3470.3	3335.2	3082.9	2655.2	2538.2
35°	3393.7	3411.8	3381.6	2850.9	1973.2	1053.2	813.1	784.9	790.9	794.9	799.0
37.5°	2509.9	1190.4	758.6	764.7	770.7	776.8	782.8	788.9	794.9	801.0	803.0
40°	754.6	752.6	758.6	766.7	772.8	776.8	784.9	790.9	797.0	803.0	805.0
42.5°	746.5	750.6	756.6	764.7	772.8	780.8	786.9	794.9	799.0	803.0	805.0
45°	742.5	750.6	758.6	764.7	770.7	774.8	778.8	780.8	778.8	778.8	782.8
47.5°	736.4	744.5	746.5	744.5	746.5	744.5	744.5	744.5	738.5	736.4	736.4
50°	714.2	714.2	710.2	702.1	700.1	698.1	694.1	692.0	684.0	682.0	682.0
52.5°	667.8	665.8	659.8	649.7	645.6	641.6	639.6	637.6	629.5	625.5	627.5
55°	613.4	609.3	603.3	591.2	589.1	585.1	583.1	581.1	573.0	577.0	571.0
57.5°	562.9	554.9	546.8	544.8	536.7	534.7	532.7	530.6	524.6	526.6	522.6
60°	502.4	500.4	496.3	488.3	488.3	486.3	486.3	482.2	478.2	476.2	476.2
62.5°	458.0	452.0	447.9	447.9	441.9	441.9	441.9	437.8	433.8	435.8	433.8
65°	409.6	407.6	405.5	401.5	401.5	399.5	399.5	395.5	389.4	391.4	387.4
67.5°	369.2	365.2	361.2	359.1	351.1	347.0	345.0	343.0	334.9	336.9	332.9
70°	318.8	312.7	308.7	304.7	298.6	294.6	294.6	290.5	284.5	286.5	282.5
72.5°	266.3	262.3	258.3	256.2	250.2	248.2	246.2	244.1	238.1	240.1	238.1
75°	221.9	221.9	219.9	217.9	211.9	205.8	201.8	199.7	195.7	197.7	193.7
77.5°	183.6	179.6	175.5	175.5	169.5	165.4	161.4	161.4	161.4	159.4	157.4
80°	143.3	139.2	139.2	137.2	133.2	129.1	127.1	127.1	125.1	125.1	123.1
82.5°	109.0	104.9	102.9	102.9	98.9	96.8	94.8	92.8	92.8	92.8	90.8
85°	76.7	72.6	70.6	70.6	66.6	64.6	64.6	62.5	62.5	60.5	60.5
87.5°	46.4	44.4	42.4	42.4	38.3	36.3	36.3	36.3	34.3	34.3	32.3
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-LD5-130HL-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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4749.5	4749.5	4735.4	4739.4	4733.4	4741.4	4731.4	4731.4	4743.5	4743.5	4751.5
5°	4580.0	4569.9	4567.9	4563.9	4543.7	4551.8	4541.7	4531.6	4545.7	4545.7	4563.9
7.5°	4348.0	4329.8	4337.9	4325.8	4313.7	4295.5	4301.6	4293.5	4303.6	4317.7	4335.9
10°	4229.0	4212.8	4222.9	4210.8	4216.9	4190.6	4192.6	4194.7	4204.8	4208.8	4224.9
12.5°	4152.3	4148.3	4144.2	4140.2	4144.2	4130.1	4122.0	4124.0	4128.1	4130.1	4142.2
15°	3990.9	3964.7	3972.7	3944.5	3946.5	3948.5	3932.4	3948.5	3946.5	3972.7	3996.9
17.5°	3859.7	3859.7	3845.6	3833.5	3825.4	3823.4	3811.3	3819.4	3811.3	3827.5	3833.5
20°	3768.9	3766.9	3764.9	3758.9	3738.7	3740.7	3746.8	3728.6	3726.6	3724.6	3736.7
22.5°	3726.6	3728.6	3720.5	3720.5	3702.4	3706.4	3708.4	3688.2	3690.3	3684.2	3690.3
25°	3682.2	3686.2	3676.1	3676.1	3672.1	3670.1	3660.0	3664.0	3651.9	3641.8	3651.9
27.5°	3629.7	3637.8	3629.7	3633.8	3625.7	3621.7	3615.6	3611.6	3599.5	3597.4	3603.5
30°	3581.3	3585.3	3583.3	3573.2	3571.2	3559.1	3565.2	3553.1	3541.0	3543.0	3547.0
32.5°	1836.0	1753.3	1351.8	1220.7	1208.6	1253.0	1485.0	1807.8	2342.5	2861.0	3234.3
35°	801.0	801.0	801.0	799.0	799.0	797.0	794.9	792.9	790.9	788.9	786.9
37.5°	805.0	805.0	805.0	805.0	803.0	801.0	801.0	797.0	794.9	792.9	790.9
40°	807.1	809.1	809.1	809.1	807.1	807.1	805.0	801.0	799.0	794.9	790.9
42.5°	805.0	807.1	807.1	805.0	805.0	803.0	803.0	801.0	799.0	797.0	794.9
45°	778.8	780.8	776.8	776.8	774.8	774.8	774.8	774.8	774.8	776.8	776.8
47.5°	732.4	732.4	730.4	728.4	728.4	726.3	728.4	726.3	730.4	732.4	736.4
50°	677.9	677.9	673.9	671.9	671.9	671.9	671.9	673.9	675.9	679.9	684.0
52.5°	621.4	621.4	619.4	617.4	615.4	615.4	621.4	619.4	621.4	623.4	629.5
55°	567.0	569.0	564.9	564.9	562.9	562.9	562.9	564.9	567.0	569.0	575.0
57.5°	520.6	520.6	516.5	516.5	516.5	514.5	520.6	516.5	518.5	520.6	524.6
60°	474.1	472.1	472.1	470.1	470.1	470.1	474.1	472.1	472.1	474.1	478.2
62.5°	431.8	431.8	429.8	429.8	427.7	427.7	431.8	429.8	429.8	431.8	433.8
65°	383.4	383.4	381.3	379.3	385.4	379.3	385.4	381.3	385.4	387.4	391.4
67.5°	328.9	328.9	328.9	326.9	326.9	330.9	332.9	328.9	330.9	334.9	336.9
70°	280.5	280.5	278.4	278.4	278.4	282.5	284.5	280.5	282.5	284.5	288.5
72.5°	238.1	234.0	234.0	232.0	236.1	236.1	238.1	236.1	238.1	238.1	242.1
75°	195.7	191.7	191.7	191.7	195.7	193.7	195.7	193.7	195.7	195.7	197.7
77.5°	157.4	155.4	153.3	153.3	157.4	157.4	157.4	155.4	157.4	159.4	161.4
80°	123.1	121.1	119.0	119.0	123.1	123.1	123.1	125.1	123.1	125.1	127.1
82.5°	90.8	88.8	86.8	90.8	90.8	90.8	90.8	92.8	90.8	92.8	94.8
85°	60.5	58.5	56.5	60.5	60.5	60.5	60.5	62.5	60.5	62.5	64.6
87.5°	32.3	30.3	30.3	32.3	32.3	32.3	34.3	34.3	34.3	36.3	36.3
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-LD5-130HL-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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4763.6	4769.7	4767.7	4755.6	4743.5	4729.3	4719.3	4721.3	4741.4	4747.5	4729.3
5°	4563.9	4602.2	4602.2	4628.5	4614.3	4602.2	4610.3	4654.7	4676.9	4711.2	4723.3
7.5°	4358.1	4376.3	4374.2	4400.5	4396.4	4396.4	4402.5	4461.0	4489.2	4517.5	4525.6
10°	4243.1	4261.2	4259.2	4261.2	4255.2	4241.1	4241.1	4267.3	4291.5	4305.6	4309.7
12.5°	4160.4	4170.5	4168.4	4168.4	4164.4	4152.3	4150.3	4172.5	4198.7	4216.9	4218.9
15°	4037.3	4065.5	4071.6	4097.8	4091.8	4075.6	4079.7	4097.8	4114.0	4130.1	4124.0
17.5°	3853.7	3867.8	3869.8	3879.9	3875.9	3875.9	3900.1	3966.7	4011.1	4049.4	4053.4
20°	3748.8	3758.9	3754.8	3777.0	3766.9	3764.9	3771.0	3799.2	3819.4	3837.5	3869.8
22.5°	3698.3	3706.4	3700.3	3702.4	3684.2	3668.1	3664.0	3686.2	3708.4	3732.6	3732.6
25°	3656.0	3662.0	3660.0	3656.0	3641.8	3619.6	3615.6	3619.6	3627.7	3629.7	3615.6
27.5°	3605.5	3609.6	3609.6	3611.6	3593.4	3573.2	3569.2	3565.2	3573.2	3571.2	3549.0
30°	3553.1	3547.0	3549.0	3551.0	3534.9	3516.7	3508.7	3506.7	3514.7	3512.7	3490.5
32.5°	3428.0	3474.4	3478.4	3482.4	3468.3	3452.2	3444.1	3438.1	3442.1	3440.1	3419.9
35°	784.9	799.0	978.6	2215.4	3008.3	3331.1	3365.4	3357.3	3359.4	3359.4	3343.2
37.5°	786.9	784.9	782.8	776.8	770.7	766.7	766.7	1325.6	2826.7	3274.6	3276.6
40°	786.9	784.9	782.8	778.8	770.7	764.7	754.6	746.5	764.7	1682.7	3078.9
42.5°	790.9	786.9	782.8	778.8	770.7	762.7	754.6	744.5	750.6	746.5	736.4
45°	778.8	776.8	776.8	774.8	770.7	762.7	752.6	740.5	734.4	740.5	730.4
47.5°	740.5	742.5	748.5	750.6	750.6	752.6	746.5	738.5	728.4	734.4	722.3
50°	688.0	692.0	694.1	704.2	708.2	716.3	718.3	718.3	716.3	724.3	716.3
52.5°	631.5	635.6	645.6	649.7	653.7	665.8	669.9	675.9	679.9	692.0	700.1
55°	577.0	579.1	583.1	591.2	597.2	607.3	613.4	619.4	629.5	635.6	659.8
57.5°	526.6	528.6	536.7	538.7	542.7	550.8	556.9	564.9	573.0	577.0	605.3
60°	478.2	480.2	486.3	488.3	490.3	498.4	504.4	510.5	516.5	520.6	540.7
62.5°	435.8	435.8	441.9	441.9	443.9	449.9	454.0	458.0	464.1	466.1	476.2
65°	393.4	395.5	399.5	399.5	401.5	405.5	407.6	409.6	415.6	415.6	423.7
67.5°	341.0	343.0	349.1	353.1	355.1	363.2	365.2	367.2	371.2	373.3	377.3
70°	290.5	292.6	298.6	300.6	302.6	308.7	312.7	318.8	324.8	330.9	334.9
72.5°	244.1	246.2	252.2	252.2	258.3	260.3	264.3	266.3	272.4	276.4	282.5
75°	199.7	201.8	207.8	207.8	213.9	215.9	217.9	219.9	224.0	228.0	232.0
77.5°	163.4	163.4	171.5	175.5	179.6	179.6	181.6	181.6	181.6	183.6	187.6
80°	129.1	129.1	135.2	139.2	143.3	143.3	145.3	147.3	149.3	149.3	151.3
82.5°	96.8	96.8	102.9	104.9	109.0	109.0	109.0	111.0	113.0	111.0	115.0
85°	66.6	66.6	70.6	72.6	76.7	76.7	76.7	78.7	80.7	78.7	80.7
87.5°	38.3	40.4	42.4	44.4	46.4	48.4	48.4	48.4	50.4	50.4	52.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4709.2	4685.0	4682.9	4654.7	4646.6	4648.6	4626.4	4618.4	4582.1	4574.0	4535.6
5°	4727.3	4739.4	4733.4	4731.4	4737.4	4733.4	4717.2	4709.2	4703.1	4687.0	4654.7
7.5°	4527.6	4535.6	4541.7	4567.9	4590.1	4628.5	4668.8	4695.0	4715.2	4719.3	4693.0
10°	4323.8	4362.1	4388.4	4428.7	4461.0	4483.2	4507.4	4529.6	4588.1	4646.6	4680.9
12.5°	4218.9	4229.0	4226.9	4249.1	4271.3	4329.8	4386.3	4418.6	4463.0	4489.2	4551.8
15°	4130.1	4132.1	4138.2	4154.3	4166.4	4186.6	4212.8	4261.2	4350.0	4390.4	4424.7
17.5°	4049.4	4049.4	4053.4	4067.6	4083.7	4101.9	4118.0	4138.2	4182.6	4249.1	4333.9
20°	3920.3	3976.8	3982.8	3980.8	3988.9	4023.2	4027.2	4063.5	4085.7	4111.9	4194.7
22.5°	3728.6	3762.9	3811.3	3886.0	3914.2	3930.4	3942.5	3958.6	3992.9	4023.2	4057.5
25°	3623.7	3645.9	3660.0	3682.2	3740.7	3835.5	3853.7	3871.8	3894.0	3916.2	3958.6
27.5°	3530.9	3528.8	3538.9	3559.1	3575.3	3625.7	3714.5	3785.1	3789.1	3821.4	3857.7
30°	3464.3	3452.2	3438.1	3434.0	3456.2	3482.4	3508.7	3619.6	3696.3	3712.5	3750.8
32.5°	3401.7	3381.6	3361.4	3345.2	3331.1	3353.3	3369.5	3417.9	3516.7	3609.6	3629.7
35°	3325.1	3304.9	3280.7	3262.5	3240.3	3238.3	3236.3	3282.7	3315.0	3425.9	3522.8
37.5°	3246.4	3224.2	3204.0	3183.8	3161.6	3145.5	3135.4	3147.5	3177.8	3226.2	3387.6
40°	3163.7	3137.4	3117.2	3101.1	3070.8	3058.7	3038.6	3030.5	3032.5	3074.9	3159.6
42.5°	1890.5	3014.3	3024.4	3006.3	2980.0	2963.9	2941.7	2931.6	2911.4	2931.6	2980.0
45°	728.4	736.4	2205.3	2913.5	2881.2	2861.0	2840.8	2830.7	2808.6	2792.4	2836.8
47.5°	714.2	722.3	706.2	1000.7	2750.0	2756.1	2731.9	2721.8	2699.6	2687.5	2675.4
50°	704.2	710.2	698.1	702.1	688.0	2520.0	2620.9	2608.8	2584.6	2570.5	2546.3
52.5°	694.1	694.1	686.0	675.9	671.9	673.9	2120.5	2493.8	2465.6	2451.4	2419.1
55°	661.8	665.8	673.9	657.7	653.7	651.7	645.6	2019.7	2334.4	2318.3	2290.0
57.5°	613.4	621.4	643.6	639.6	639.6	623.4	619.4	619.4	1874.4	2183.1	2154.8
60°	556.9	564.9	589.1	597.2	603.3	599.2	595.2	593.2	585.1	1975.3	2011.6
62.5°	498.4	506.4	514.5	540.7	548.8	558.9	571.0	564.9	556.9	556.9	1860.3
65°	435.8	447.9	452.0	476.2	486.3	504.4	514.5	528.6	524.6	522.6	532.7
67.5°	381.3	395.5	397.5	407.6	425.7	433.8	445.9	472.1	484.2	488.3	492.3
70°	334.9	343.0	349.1	353.1	365.2	367.2	389.4	407.6	425.7	445.9	452.0
72.5°	288.5	294.6	306.7	302.6	306.7	314.8	326.9	339.0	357.1	385.4	403.5
75°	236.1	240.1	248.2	252.2	260.3	266.3	274.4	284.5	300.6	314.8	339.0
77.5°	189.7	191.7	197.7	199.7	207.8	213.9	228.0	234.0	244.1	254.2	268.3
80°	153.3	153.3	155.4	155.4	161.4	167.5	177.6	183.6	195.7	203.8	203.8
82.5°	117.0	117.0	123.1	123.1	127.1	127.1	133.2	133.2	139.2	143.3	147.3
85°	82.7	84.7	88.8	86.8	90.8	88.8	92.8	96.8	98.9	96.8	94.8
87.5°	54.5	54.5	58.5	56.5	58.5	58.5	62.5	62.5	64.6	64.6	62.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4521.5	4491.3	4473.1	4450.9	4444.9	4438.8	4446.9	4446.9	4434.8	4424.7	4406.5
5°	4626.4	4594.2	4559.9	4523.5	4489.2	4452.9	4438.8	4436.8	4414.6	4402.5	4396.4
7.5°	4680.9	4664.8	4626.4	4576.0	4523.5	4459.0	4430.7	4414.6	4392.4	4388.4	4388.4
10°	4687.0	4668.8	4648.6	4612.3	4551.8	4467.0	4412.6	4380.3	4360.1	4374.2	4400.5
12.5°	4628.5	4662.8	4644.6	4620.4	4572.0	4469.1	4390.4	4342.0	4335.9	4372.2	4440.8
15°	4479.2	4580.0	4630.5	4606.3	4567.9	4465.0	4354.1	4297.6	4297.6	4372.2	4461.0
17.5°	4366.2	4444.9	4567.9	4588.1	4543.7	4457.0	4319.8	4253.2	4271.3	4380.3	4475.1
20°	4273.4	4321.8	4440.8	4553.8	4511.4	4438.8	4269.3	4200.7	4237.0	4368.2	4495.3
22.5°	4128.1	4224.9	4297.6	4465.0	4479.2	4404.5	4218.9	4136.2	4208.8	4368.2	4485.2
25°	3986.9	4103.9	4180.5	4344.0	4430.7	4362.1	4172.5	4067.6	4178.5	4362.1	4477.1
27.5°	3888.0	3942.5	4081.7	4198.7	4358.1	4305.6	4109.9	3992.9	4140.2	4329.8	4430.7
30°	3783.1	3819.4	3956.6	4067.6	4261.2	4241.1	4045.4	3910.2	4091.8	4299.6	4309.7
32.5°	3668.1	3708.4	3779.0	3940.4	4126.1	4180.5	3972.7	3827.5	4039.3	4253.2	4168.4
35°	3551.0	3581.3	3637.8	3811.3	3968.7	4089.7	3884.0	3732.6	4003.0	4182.6	4033.3
37.5°	3434.0	3466.3	3514.7	3660.0	3803.2	4005.0	3807.3	3637.8	3936.4	4057.5	3892.0
40°	3323.0	3341.2	3391.6	3482.4	3666.0	3918.3	3720.5	3538.9	3867.8	3898.1	3700.3
42.5°	3119.3	3210.1	3256.5	3329.1	3510.7	3799.2	3619.6	3434.0	3791.1	3738.7	3508.7
45°	2899.3	3097.1	3117.2	3189.9	3373.5	3672.1	3524.8	3331.1	3718.5	3601.5	3327.1
47.5°	2719.8	2863.0	2980.0	3040.6	3210.1	3522.8	3436.0	3244.4	3609.6	3428.0	3149.5
50°	2560.4	2637.1	2848.9	2893.3	3014.3	3343.2	3331.1	3143.5	3458.2	3210.1	2976.0
52.5°	2405.0	2459.5	2651.2	2746.0	2844.9	3149.5	3206.0	3044.6	3292.8	2992.2	2800.5
55°	2269.8	2288.0	2392.9	2592.7	2681.4	2953.8	3068.8	2929.6	3082.9	2784.3	2631.0
57.5°	2130.6	2114.5	2191.2	2447.4	2512.0	2754.1	2923.6	2812.6	2913.5	2572.5	2455.5
60°	1985.4	1963.2	1995.4	2164.9	2332.4	2556.3	2752.1	2683.5	2707.7	2362.7	2259.8
62.5°	1834.0	1811.8	1801.7	1908.7	2156.9	2352.6	2578.5	2540.2	2455.5	2171.0	2017.6
65°	1676.7	1654.5	1638.3	1680.7	1963.2	2088.3	2384.8	2374.8	2179.0	1969.2	1698.9
67.5°	510.5	1505.2	1470.9	1468.8	1654.5	1848.2	2175.0	2158.9	1900.6	1753.3	1462.8
70°	460.0	1220.7	1297.3	1279.2	1359.9	1604.0	1934.9	1922.8	1630.3	1406.3	1293.3
72.5°	421.7	431.8	1146.0	1125.8	1144.0	1363.9	1684.7	1652.4	1382.1	1109.7	1117.8
75°	361.2	379.3	395.5	950.3	926.1	1129.9	1412.3	1361.9	1140.0	916.0	934.2
77.5°	294.6	316.8	328.9	692.0	748.5	805.0	1127.9	1061.3	784.9	732.4	349.1
80°	219.9	238.1	258.3	276.4	569.0	562.9	837.3	770.7	546.8	456.0	272.4
82.5°	161.4	167.5	179.6	199.7	226.0	377.3	538.7	474.1	379.3	207.8	187.6
85°	100.9	109.0	115.0	121.1	137.2	226.0	266.3	211.9	159.4	127.1	119.0
87.5°	64.6	64.6	62.5	64.6	66.6	80.7	90.8	86.8	68.6	64.6	64.6
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4386.3	4358.1	4358.1	4350.0	4356.1	4356.1	4354.1	4356.1	4370.2	4378.3	4392.4
5°	4384.3	4376.3	4394.4	4416.6	4442.8	4475.1	4483.2	4511.4	4537.7	4572.0	4608.3
7.5°	4410.6	4438.8	4473.1	4509.4	4561.9	4600.2	4634.5	4668.8	4693.0	4725.3	4745.5
10°	4448.9	4505.4	4563.9	4610.3	4666.8	4699.1	4721.3	4725.3	4691.0	4636.5	4592.1
12.5°	4503.4	4569.9	4624.4	4668.8	4695.0	4682.9	4618.4	4551.8	4513.5	4457.0	4378.3
15°	4549.8	4610.3	4666.8	4648.6	4578.0	4511.4	4461.0	4382.3	4305.6	4253.2	4218.9
17.5°	4569.9	4628.5	4608.3	4513.5	4446.9	4370.2	4267.3	4206.8	4156.3	4116.0	4095.8
20°	4582.1	4572.0	4463.0	4394.4	4265.3	4194.7	4128.1	4071.6	4033.3	4013.1	4009.0
22.5°	4549.8	4426.7	4333.9	4210.8	4116.0	4057.5	4005.0	3958.6	3932.4	3916.2	3906.1
25°	4442.8	4299.6	4162.4	4065.5	3984.8	3934.4	3894.0	3855.7	3823.4	3815.4	3795.2
27.5°	4293.5	4176.5	3994.9	3920.3	3849.7	3825.4	3781.1	3742.7	3714.5	3690.3	3625.7
30°	4170.5	3984.8	3853.7	3785.1	3742.7	3714.5	3664.0	3623.7	3575.3	3486.5	3450.2
32.5°	4019.1	3835.5	3710.4	3672.1	3619.6	3595.4	3538.9	3450.2	3375.5	3339.2	3337.2
35°	3823.4	3672.1	3581.3	3547.0	3504.6	3464.3	3347.3	3266.6	3230.2	3234.3	3264.5
37.5°	3660.0	3524.8	3466.3	3417.9	3369.5	3266.6	3167.7	3129.4	3139.4	3159.6	3173.7
40°	3494.5	3391.6	3325.1	3286.7	3177.8	3076.9	3024.4	3038.6	3056.7	3070.8	3089.0
42.5°	3333.1	3260.5	3193.9	3119.3	2970.0	2915.5	2927.6	2945.7	2961.9	2982.1	3000.2
45°	3179.8	3115.2	3038.6	2869.1	2794.4	2808.6	2826.7	2840.8	2865.0	2879.2	2897.3
47.5°	3034.5	2965.9	2830.7	2681.4	2673.4	2701.6	2717.8	2735.9	2754.1	2717.8	1499.1
50°	2871.1	2800.5	2594.7	2538.2	2556.3	2582.6	2602.8	2620.9	2334.4	928.1	714.2
52.5°	2709.7	2530.1	2399.0	2415.1	2433.3	2463.5	2477.7	1840.1	732.4	698.1	700.1
55°	2530.1	2300.1	2261.8	2281.9	2298.1	2328.4	1543.5	675.9	671.9	669.9	686.0
57.5°	2247.6	2108.4	2124.6	2144.7	2160.9	1525.3	657.7	653.7	655.7	657.7	659.8
60°	1995.4	1965.2	1983.3	2001.5	1416.4	635.6	623.4	625.5	633.5	627.5	611.3
62.5°	1795.7	1819.9	1838.1	1610.1	603.3	597.2	603.3	597.2	583.1	573.0	552.8
65°	1642.4	1666.6	1680.7	567.0	564.9	573.0	567.0	546.8	524.6	496.3	490.3
67.5°	1480.9	1505.2	538.7	524.6	532.7	522.6	498.4	474.1	458.0	433.8	423.7
70°	1313.5	562.9	488.3	486.3	472.1	456.0	429.8	405.5	385.4	375.3	365.2
72.5°	948.3	445.9	439.8	423.7	399.5	377.3	355.1	341.0	330.9	324.8	318.8
75°	395.5	387.4	369.2	341.0	316.8	306.7	290.5	280.5	276.4	264.3	260.3
77.5°	330.9	314.8	288.5	268.3	254.2	248.2	236.1	224.0	217.9	215.9	207.8
80°	254.2	232.0	219.9	209.8	205.8	191.7	177.6	171.5	167.5	165.4	159.4
82.5°	173.5	165.4	157.4	143.3	143.3	137.2	131.1	127.1	123.1	123.1	119.0
85°	113.0	106.9	104.9	98.9	98.9	94.8	92.8	90.8	88.8	86.8	84.7
87.5°	64.6	64.6	66.6	64.6	64.6	62.5	60.5	58.5	56.5	56.5	52.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4410.6	4430.7	4434.8	4503.4	4541.7	4539.7	4527.6	4563.9	4541.7	4529.6	4541.7
5°	4644.6	4668.8	4689.0	4763.6	4789.9	4802.0	4800.0	4820.1	4804.0	4789.9	4789.9
7.5°	4759.6	4767.7	4775.7	4757.6	4745.5	4725.3	4695.0	4650.7	4628.5	4604.2	4574.0
10°	4569.9	4543.7	4553.8	4517.5	4487.2	4465.0	4436.8	4400.5	4370.2	4348.0	4313.7
12.5°	4337.9	4335.9	4339.9	4346.0	4315.7	4297.6	4275.4	4249.1	4226.9	4202.7	4174.5
15°	4196.7	4198.7	4214.8	4208.8	4198.7	4188.6	4164.4	4156.3	4136.2	4109.9	4093.8
17.5°	4095.8	4105.9	4122.0	4114.0	4097.8	4087.7	4069.6	4051.4	4033.3	4013.1	3988.9
20°	4007.0	4017.1	4027.2	4017.1	3986.9	3972.7	3948.5	3892.0	3851.7	3811.3	3775.0
22.5°	3910.2	3916.2	3908.2	3875.9	3799.2	3762.9	3734.6	3718.5	3684.2	3662.0	3639.8
25°	3789.1	3754.8	3702.4	3666.0	3635.8	3619.6	3607.5	3605.5	3601.5	3597.4	3587.4
27.5°	3591.4	3579.3	3551.0	3536.9	3538.9	3545.0	3547.0	3553.1	3547.0	3538.9	3530.9
30°	3444.1	3450.2	3452.2	3456.2	3466.3	3472.4	3474.4	3482.4	3478.4	3472.4	3468.3
32.5°	3351.3	3365.4	3373.5	3385.6	3391.6	3401.7	3401.7	3413.8	3401.7	3399.7	3395.7
35°	3274.6	3286.7	3290.8	3308.9	3315.0	3325.1	3325.1	3335.2	3325.1	3222.2	2544.2
37.5°	3198.0	3210.1	3218.1	3234.3	3236.3	3242.3	2992.2	2189.1	1412.3	1093.6	835.3
40°	3107.2	3121.3	3129.4	3135.4	2203.3	1398.2	962.4	782.8	782.8	788.9	794.9
42.5°	3010.3	3020.4	2104.4	1224.7	762.7	760.6	766.7	772.8	778.8	786.9	794.9
45°	2366.7	1194.4	758.6	740.5	746.5	754.6	762.7	770.7	780.8	788.9	792.9
47.5°	776.8	728.4	738.5	730.4	740.5	750.6	758.6	766.7	768.7	770.7	768.7
50°	718.3	718.3	724.3	724.3	732.4	736.4	736.4	736.4	728.4	726.3	720.3
52.5°	694.1	710.2	702.1	706.2	702.1	696.1	690.0	684.0	671.9	667.8	659.8
55°	682.0	688.0	667.8	661.8	653.7	637.6	629.5	621.4	611.3	607.3	597.2
57.5°	653.7	639.6	617.4	607.3	593.2	577.0	569.0	562.9	552.8	548.8	542.7
60°	601.3	573.0	558.9	546.8	530.6	516.5	510.5	506.4	498.4	496.3	490.3
62.5°	536.7	512.5	500.4	484.2	472.1	464.1	458.0	456.0	447.9	447.9	443.9
65°	466.1	454.0	443.9	427.7	421.7	413.6	411.6	409.6	405.5	403.5	399.5
67.5°	409.6	401.5	387.4	379.3	375.3	369.2	365.2	361.2	353.1	349.1	343.0
70°	359.1	353.1	339.0	332.9	324.8	314.8	308.7	304.7	298.6	294.6	288.5
72.5°	310.7	292.6	282.5	276.4	270.4	260.3	258.3	254.2	248.2	246.2	240.1
75°	250.2	236.1	230.0	226.0	219.9	213.9	213.9	213.9	207.8	205.8	203.8
77.5°	199.7	191.7	187.6	183.6	181.6	177.6	171.5	169.5	163.4	163.4	161.4
80°	153.3	149.3	145.3	143.3	141.2	137.2	133.2	131.1	125.1	125.1	123.1
82.5°	113.0	111.0	109.0	106.9	104.9	102.9	96.8	94.8	90.8	90.8	88.8
85°	80.7	78.7	74.7	72.6	72.6	70.6	64.6	62.5	58.5	58.5	58.5
87.5°	50.4	48.4	46.4	44.4	42.4	40.4	36.3	34.3	34.3	30.3	28.2
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-LD5-130HL-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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4517.5	4551.8	4547.8	4572.0	4578.0	4590.1	4594.2	4596.2	4565.9	4590.1	4592.1
5°	4783.8	4789.9	4793.9	4804.0	4814.1	4816.1	4806.0	4793.9	4797.9	4789.9	4769.7
7.5°	4569.9	4539.7	4533.6	4525.6	4521.5	4517.5	4499.3	4515.5	4497.3	4489.2	4461.0
10°	4307.7	4279.4	4277.4	4277.4	4283.4	4281.4	4277.4	4269.3	4285.5	4275.4	4269.3
12.5°	4170.5	4160.4	4166.4	4162.4	4178.5	4182.6	4178.5	4178.5	4174.5	4166.4	4170.5
15°	4087.7	4079.7	4085.7	4079.7	4091.8	4093.8	4083.7	4089.7	4079.7	4069.6	4065.5
17.5°	3978.8	3960.6	3946.5	3926.3	3928.3	3924.3	3912.2	3912.2	3902.1	3875.9	3877.9
20°	3768.9	3750.8	3742.7	3742.7	3752.8	3756.8	3754.8	3758.9	3748.8	3744.7	3728.6
22.5°	3637.8	3635.8	3639.8	3649.9	3666.0	3688.2	3690.3	3690.3	3690.3	3688.2	3668.1
25°	3591.4	3591.4	3595.4	3609.6	3621.7	3637.8	3641.8	3645.9	3641.8	3641.8	3623.7
27.5°	3538.9	3534.9	3543.0	3557.1	3571.2	3583.3	3593.4	3595.4	3589.4	3589.4	3595.4
30°	3474.4	3472.4	3482.4	3496.6	3508.7	3520.8	3530.9	3538.9	3530.9	3530.9	3524.8
32.5°	3407.8	3407.8	3411.8	3327.1	3085.0	2778.3	2784.3	2606.8	2483.7	2328.4	2534.2
35°	2126.6	1547.5	1329.6	1125.8	982.6	889.8	887.8	857.5	843.4	833.3	831.3
37.5°	803.0	807.1	815.1	819.2	825.2	829.2	831.3	831.3	831.3	831.3	829.2
40°	801.0	809.1	815.1	821.2	827.2	831.3	831.3	833.3	835.3	835.3	835.3
42.5°	803.0	811.1	819.2	825.2	829.2	831.3	833.3	835.3	835.3	835.3	835.3
45°	801.0	805.0	805.0	807.1	807.1	807.1	809.1	809.1	807.1	805.0	809.1
47.5°	770.7	770.7	764.7	762.7	760.6	756.6	758.6	756.6	754.6	752.6	756.6
50°	718.3	710.2	706.2	702.1	700.1	696.1	698.1	696.1	694.1	690.0	696.1
52.5°	655.7	653.7	645.6	641.6	639.6	641.6	637.6	635.6	633.5	631.5	633.5
55°	595.2	587.1	585.1	581.1	579.1	581.1	579.1	577.0	575.0	573.0	575.0
57.5°	540.7	534.7	532.7	528.6	528.6	528.6	528.6	526.6	524.6	522.6	524.6
60°	488.3	484.2	482.2	482.2	480.2	480.2	480.2	478.2	476.2	476.2	478.2
62.5°	443.9	443.9	437.8	435.8	435.8	437.8	435.8	433.8	431.8	429.8	433.8
65°	397.5	389.4	387.4	383.4	379.3	381.3	379.3	377.3	375.3	373.3	377.3
67.5°	341.0	339.0	330.9	326.9	324.8	326.9	324.8	322.8	320.8	318.8	322.8
70°	286.5	286.5	278.4	276.4	274.4	274.4	272.4	272.4	270.4	268.3	272.4
72.5°	238.1	238.1	236.1	232.0	230.0	228.0	226.0	224.0	224.0	226.0	226.0
75°	197.7	193.7	185.6	187.6	185.6	183.6	183.6	181.6	179.6	183.6	181.6
77.5°	155.4	153.3	147.3	149.3	147.3	145.3	145.3	143.3	141.2	143.3	143.3
80°	117.0	117.0	115.0	113.0	113.0	111.0	109.0	109.0	106.9	109.0	109.0
82.5°	84.7	84.7	82.7	80.7	78.7	78.7	76.7	76.7	76.7	76.7	76.7
85°	54.5	52.5	52.5	48.4	48.4	48.4	46.4	46.4	46.4	46.4	46.4
87.5°	26.2	26.2	24.2	24.2	22.2	20.2	20.2	18.2	18.2	20.2	20.2
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-LD5-130HL-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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4555.8	4582.1	4559.9	4569.9	4572.0	4606.3	4604.2	4612.3	4598.2	4582.1	4559.9
5°	4787.9	4775.7	4759.6	4797.9	4777.8	4802.0	4810.0	4826.2	4826.2	4824.2	4806.0
7.5°	4491.3	4465.0	4485.2	4499.3	4505.4	4489.2	4521.5	4557.8	4588.1	4606.3	4608.3
10°	4259.2	4267.3	4265.3	4271.3	4285.5	4283.4	4303.6	4323.8	4331.9	4344.0	4348.0
12.5°	4150.3	4148.3	4152.3	4166.4	4174.5	4172.5	4192.6	4204.8	4208.8	4210.8	4208.8
15°	4063.5	4049.4	4059.5	4061.5	4067.6	4067.6	4091.8	4109.9	4118.0	4122.0	4118.0
17.5°	3900.1	3865.8	3898.1	3898.1	3920.3	3916.2	3954.6	3984.8	4001.0	4013.1	4013.1
20°	3738.7	3722.5	3734.6	3730.6	3746.8	3744.7	3768.9	3789.1	3803.2	3813.3	3825.4
22.5°	3674.1	3678.2	3660.0	3662.0	3662.0	3660.0	3672.1	3682.2	3686.2	3692.3	3688.2
25°	3631.7	3635.8	3629.7	3619.6	3615.6	3619.6	3625.7	3637.8	3639.8	3635.8	3621.7
27.5°	3589.4	3577.3	3587.4	3569.2	3565.2	3573.2	3581.3	3583.3	3585.3	3585.3	3573.2
30°	3524.8	3514.7	3524.8	3516.7	3508.7	3516.7	3522.8	3522.8	3526.8	3528.8	3514.7
32.5°	2463.5	2483.7	2810.6	3008.3	3286.7	3428.0	3454.2	3454.2	3458.2	3458.2	3446.1
35°	839.3	841.4	910.0	986.6	1150.1	1351.8	1616.1	1753.3	2217.4	2772.2	3308.9
37.5°	829.2	827.2	825.2	823.2	821.2	819.2	815.1	813.1	825.2	978.6	1327.6
40°	833.3	831.3	827.2	825.2	823.2	819.2	817.1	813.1	809.1	805.0	801.0
42.5°	833.3	831.3	829.2	827.2	825.2	823.2	819.2	815.1	811.1	805.0	799.0
45°	805.0	805.0	807.1	807.1	809.1	809.1	809.1	807.1	807.1	805.0	797.0
47.5°	752.6	752.6	758.6	758.6	762.7	766.7	766.7	770.7	776.8	780.8	782.8
50°	692.0	692.0	698.1	700.1	704.2	710.2	716.3	718.3	724.3	732.4	740.5
52.5°	631.5	631.5	637.6	637.6	641.6	647.7	653.7	655.7	663.8	671.9	682.0
55°	575.0	575.0	579.1	581.1	583.1	587.1	593.2	593.2	601.3	607.3	617.4
57.5°	524.6	528.6	528.6	528.6	530.6	534.7	538.7	538.7	544.8	550.8	558.9
60°	476.2	480.2	480.2	480.2	482.2	484.2	488.3	488.3	492.3	496.3	504.4
62.5°	431.8	435.8	435.8	437.8	437.8	439.8	443.9	441.9	445.9	447.9	454.0
65°	375.3	379.3	381.3	383.4	385.4	389.4	395.5	393.4	399.5	403.5	409.6
67.5°	320.8	324.8	324.8	326.9	328.9	332.9	336.9	336.9	343.0	347.0	355.1
70°	270.4	274.4	274.4	276.4	278.4	282.5	286.5	284.5	290.5	294.6	300.6
72.5°	224.0	228.0	228.0	230.0	230.0	234.0	238.1	242.1	242.1	246.2	250.2
75°	181.6	183.6	185.6	185.6	187.6	189.7	193.7	197.7	199.7	201.8	205.8
77.5°	143.3	145.3	147.3	147.3	149.3	151.3	153.3	161.4	165.4	167.5	167.5
80°	109.0	111.0	111.0	111.0	113.0	115.0	119.0	119.0	127.1	127.1	129.1
82.5°	76.7	78.7	78.7	78.7	80.7	84.7	86.8	88.8	92.8	94.8	94.8
85°	46.4	48.4	48.4	48.4	50.4	52.5	56.5	58.5	60.5	60.5	62.5
87.5°	18.2	20.2	22.2	22.2	24.2	26.2	28.2	30.3	32.3	32.3	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-LD5-130HL-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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4535.6	4549.8	4535.6	4543.7	4553.8	4535.6	4493.3	4477.1	4471.1	4446.9	4430.7
5°	4787.9	4787.9	4781.8	4797.9	4795.9	4767.7	4723.3	4703.1	4682.9	4656.7	4636.5
7.5°	4608.3	4624.4	4634.5	4697.1	4737.4	4741.4	4769.7	4775.7	4783.8	4775.7	4763.6
10°	4350.0	4344.0	4372.2	4430.7	4465.0	4483.2	4537.7	4563.9	4586.1	4630.5	4676.9
12.5°	4204.8	4212.8	4224.9	4267.3	4299.6	4291.5	4313.7	4331.9	4358.1	4402.5	4469.1
15°	4107.9	4116.0	4128.1	4160.4	4180.5	4170.5	4182.6	4194.7	4212.8	4235.0	4275.4
17.5°	4003.0	4017.1	4031.2	4065.5	4083.7	4081.7	4091.8	4095.8	4101.9	4116.0	4144.2
20°	3839.6	3884.0	3912.2	3958.6	3984.8	3980.8	3999.0	4005.0	4013.1	4027.2	4039.3
22.5°	3690.3	3702.4	3716.5	3766.9	3811.3	3865.8	3877.9	3894.0	3914.2	3928.3	3940.4
25°	3605.5	3597.4	3603.5	3637.8	3662.0	3666.0	3684.2	3736.7	3791.1	3815.4	3843.6
27.5°	3555.1	3547.0	3545.0	3561.1	3565.2	3555.1	3551.0	3567.2	3607.5	3647.9	3732.6
30°	3500.6	3490.5	3482.4	3496.6	3502.6	3488.5	3462.3	3448.1	3472.4	3482.4	3516.7
32.5°	3436.0	3425.9	3421.9	3430.0	3434.0	3421.9	3393.7	3377.5	3373.5	3365.4	3373.5
35°	3363.4	3353.3	3347.3	3349.3	3357.3	3347.3	3323.0	3302.9	3292.8	3270.6	3254.4
37.5°	1733.2	2455.5	3187.9	3264.5	3272.6	3270.6	3246.4	3224.2	3214.1	3187.9	3179.8
40°	792.9	885.7	1329.6	1737.2	2505.9	3183.8	3161.6	3139.4	3121.3	3113.2	3082.9
42.5°	790.9	792.9	794.9	784.9	972.5	1656.5	2445.4	3052.7	3040.6	3020.4	2998.2
45°	790.9	780.8	788.9	776.8	780.8	778.8	970.5	1565.7	2786.4	2911.4	2901.4
47.5°	782.8	776.8	784.9	774.8	762.7	768.7	760.6	770.7	1202.5	2039.8	2794.4
50°	746.5	750.6	764.7	762.7	752.6	760.6	746.5	758.6	748.5	821.2	1581.8
52.5°	692.0	700.1	714.2	726.3	730.4	740.5	736.4	740.5	732.4	734.4	736.4
55°	627.5	637.6	649.7	667.8	675.9	692.0	704.2	710.2	720.3	718.3	702.1
57.5°	567.0	577.0	587.1	605.3	623.4	631.5	653.7	665.8	692.0	686.0	682.0
60°	510.5	518.5	528.6	532.7	554.9	569.0	589.1	601.3	635.6	643.6	655.7
62.5°	460.0	464.1	472.1	478.2	492.3	506.4	516.5	536.7	554.9	581.1	599.2
65°	413.6	417.7	423.7	427.7	429.8	449.9	456.0	478.2	484.2	512.5	528.6
67.5°	361.2	369.2	377.3	381.3	385.4	397.5	401.5	411.6	425.7	437.8	458.0
70°	306.7	312.7	320.8	326.9	334.9	343.0	355.1	361.2	371.2	379.3	395.5
72.5°	256.2	262.3	266.3	272.4	278.4	284.5	294.6	308.7	316.8	330.9	334.9
75°	207.8	213.9	217.9	221.9	228.0	232.0	236.1	250.2	258.3	270.4	282.5
77.5°	171.5	171.5	175.5	187.6	185.6	185.6	189.7	197.7	203.8	211.9	224.0
80°	133.2	135.2	137.2	147.3	149.3	151.3	149.3	155.4	161.4	163.4	171.5
82.5°	98.9	100.9	100.9	106.9	113.0	113.0	113.0	115.0	121.1	123.1	127.1
85°	66.6	68.6	70.6	72.6	76.7	78.7	80.7	80.7	84.7	86.8	88.8
87.5°	36.3	40.4	42.4	44.4	46.4	48.4	50.4	52.5	54.5	56.5	58.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4424.7	4414.6	4408.5	4392.4	4388.4	4362.1	4366.2	4362.1	4362.1	4368.2	4388.4
5°	4614.3	4565.9	4553.8	4519.5	4491.3	4442.8	4412.6	4396.4	4372.2	4362.1	4376.3
7.5°	4743.5	4707.1	4676.9	4646.6	4606.3	4549.8	4507.4	4459.0	4418.6	4380.3	4370.2
10°	4721.3	4761.6	4761.6	4743.5	4705.1	4648.6	4598.2	4537.7	4467.0	4406.5	4370.2
12.5°	4533.6	4604.2	4660.7	4703.1	4741.4	4703.1	4652.7	4604.2	4525.6	4436.8	4370.2
15°	4327.8	4400.5	4471.1	4559.9	4652.7	4691.0	4689.0	4632.5	4561.9	4469.1	4376.3
17.5°	4182.6	4233.0	4271.3	4368.2	4481.2	4580.0	4646.6	4650.7	4582.1	4499.3	4378.3
20°	4073.6	4109.9	4142.2	4196.7	4295.5	4416.6	4539.7	4608.3	4596.2	4505.4	4384.3
22.5°	3974.7	4001.0	4027.2	4067.6	4146.2	4224.9	4368.2	4509.4	4569.9	4495.3	4378.3
25°	3875.9	3904.1	3924.3	3952.6	4015.1	4079.7	4180.5	4356.1	4491.3	4487.2	4366.2
27.5°	3758.9	3797.2	3821.4	3859.7	3902.1	3950.5	4019.1	4184.6	4378.3	4446.9	4333.9
30°	3617.6	3674.1	3710.4	3752.8	3789.1	3831.5	3886.0	3986.9	4226.9	4368.2	4299.6
32.5°	3413.8	3514.7	3595.4	3635.8	3676.1	3712.5	3760.9	3845.6	4041.3	4261.2	4261.2
35°	3268.6	3315.0	3387.6	3504.6	3555.1	3591.4	3635.8	3702.4	3827.5	4134.1	4198.7
37.5°	3155.6	3173.7	3210.1	3325.1	3419.9	3478.4	3522.8	3565.2	3688.2	3960.6	4118.0
40°	3070.8	3064.8	3060.8	3115.2	3250.4	3343.2	3393.7	3436.0	3530.9	3752.8	4011.1
42.5°	2972.0	2965.9	2945.7	2959.9	3026.5	3181.8	3258.5	3304.9	3383.6	3534.9	3894.0
45°	2869.1	2859.0	2850.9	2836.8	2861.0	2947.8	3105.1	3173.7	3218.1	3353.3	3746.8
47.5°	2764.2	2750.0	2740.0	2727.8	2713.7	2754.1	2903.4	3026.5	3103.1	3187.9	3569.2
50°	2614.9	2633.0	2620.9	2606.8	2594.7	2586.6	2649.2	2850.9	2945.7	3014.3	3353.3
52.5°	1232.8	2397.0	2497.8	2483.7	2467.6	2453.4	2467.6	2620.9	2792.4	2846.9	3093.0
55°	702.1	1067.3	2221.4	2348.5	2334.4	2314.2	2302.1	2354.6	2610.8	2683.5	2855.0
57.5°	675.9	677.9	980.6	2116.5	2195.2	2177.0	2162.9	2175.0	2392.9	2516.0	2647.1
60°	653.7	653.7	653.7	936.2	2023.7	2029.7	2011.6	1991.4	2086.2	2328.4	2437.3
62.5°	605.3	617.4	623.4	623.4	924.1	1874.4	1856.2	1850.2	1854.2	2102.4	2227.5
65°	542.7	571.0	583.1	591.2	591.2	970.5	1696.8	1686.7	1672.6	1767.4	2015.6
67.5°	474.1	502.4	528.6	544.8	546.8	564.9	1012.9	1519.3	1499.1	1501.1	1789.6
70°	403.5	427.7	456.0	480.2	502.4	512.5	528.6	1261.0	1327.6	1299.4	1533.4
72.5°	349.1	359.1	379.3	403.5	429.8	454.0	468.1	502.4	1152.1	1121.8	1166.2
75°	290.5	298.6	312.7	328.9	349.1	377.3	401.5	425.7	611.3	940.2	934.2
77.5°	226.0	240.1	256.2	266.3	276.4	296.6	328.9	353.1	377.3	635.6	748.5
80°	173.5	183.6	191.7	201.8	213.9	228.0	240.1	268.3	296.6	318.8	573.0
82.5°	129.1	135.2	141.2	145.3	149.3	157.4	179.6	189.7	207.8	228.0	270.4
85°	90.8	94.8	98.9	100.9	102.9	104.9	113.0	115.0	133.2	137.2	163.4
87.5°	58.5	60.5	64.6	66.6	66.6	68.6	70.6	70.6	70.6	66.6	80.7
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	4402.5	4402.5
2.5°	4404.5	4436.8
5°	4398.4	4440.8
7.5°	4382.3	4422.7
10°	4358.1	4406.5
12.5°	4331.9	4378.3
15°	4309.7	4344.0
17.5°	4285.5	4305.6
20°	4253.2	4269.3
22.5°	4220.9	4212.8
25°	4184.6	4166.4
27.5°	4138.2	4103.9
30°	4095.8	4035.3
32.5°	4055.5	3956.6
35°	4001.0	3875.9
37.5°	3944.5	3793.2
40°	3877.9	3698.3
42.5°	3807.3	3603.5
45°	3718.5	3512.7
47.5°	3639.8	3403.8
50°	3530.9	3286.7
52.5°	3397.7	3177.8
55°	3240.3	3044.6
57.5°	3070.8	2905.4
60°	2889.3	2746.0
62.5°	2669.3	2580.6
65°	2411.1	2390.9
67.5°	2074.1	2181.1
70°	1700.9	1941.0
72.5°	1422.4	1686.7
75°	1166.2	1402.3
77.5°	924.1	1099.6
80°	577.0	805.0
82.5°	387.4	528.6
85°	234.0	252.2
87.5°	90.8	92.8
90°	0.0	0.0

(END OF REPORT)