

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-LD5-120SL-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-LD5-120SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

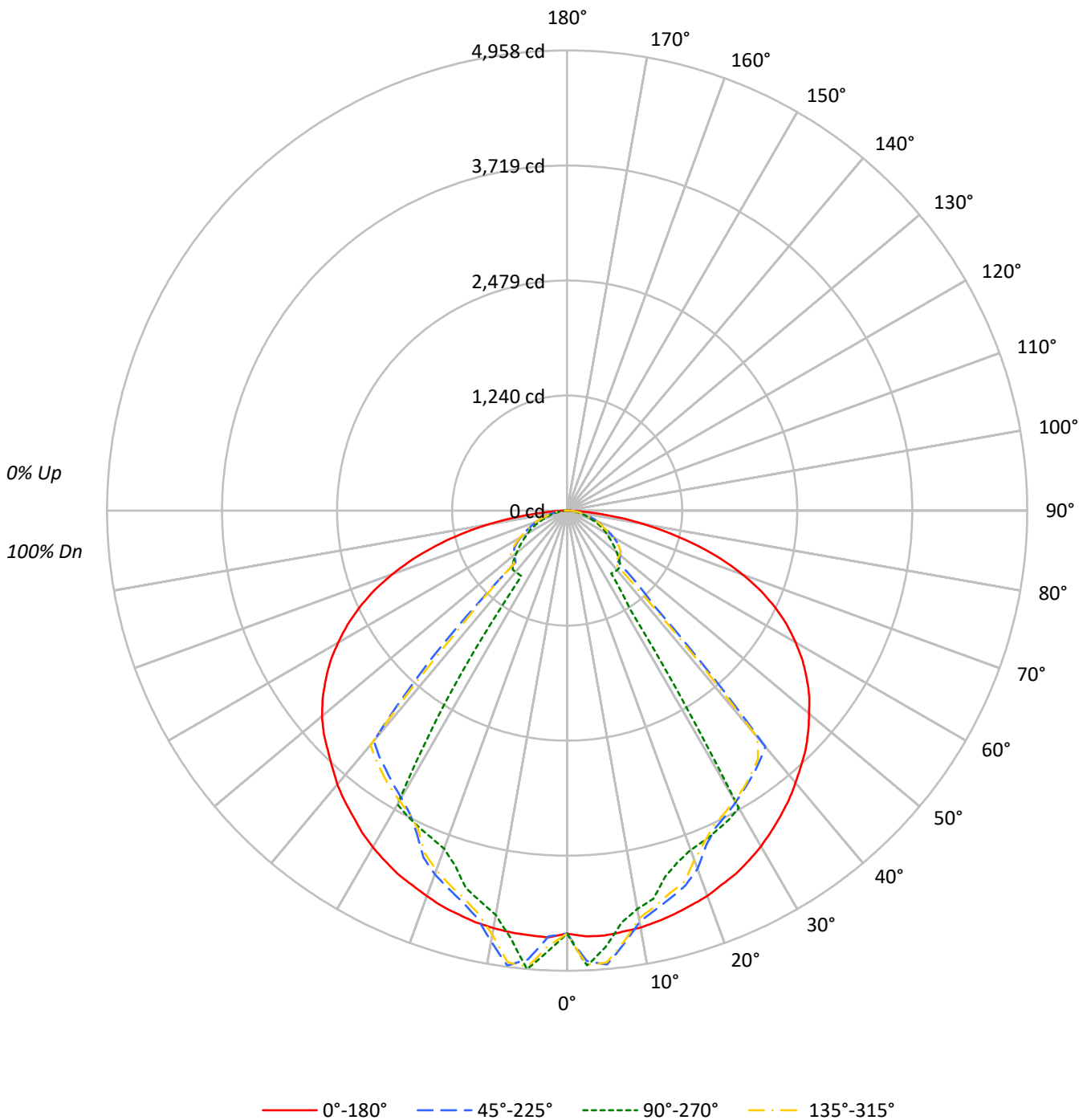
Lumens per Lamp: N/A
Luminaire Lumens: 9125.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	18412	18412	18412	18412
5°	18618	18551	18609	19469
10°	18662	16772	18687	17029
15°	18729	15517	18773	16010
20°	18893	14718	18893	14663
25°	19087	14437	19114	14302
30°	19312	14182	19361	14014
35°	19574	3230	19615	3369
40°	19930	3359	20049	3468
45°	20456	3340	20527	3462
50°	20993	3020	21277	3102
55°	21715	2681	21887	2720
60°	22363	2383	22412	2414
65°	22893	2080	22834	2046
70°	22757	1676	22685	1616
75°	21410	1290	21563	1235
80°	17811	916	18525	839
85°	10266	549	10845	421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.3	4.9
10°-20°	1232.7	13.5
20°-30°	1825.9	20.0
30°-40°	1839.7	20.2
40°-50°	1437.1	15.7
50°-60°	1110.1	12.2
60°-70°	745.3	8.2
70°-80°	380.2	4.2
80°-90°	105.8	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3506.9	38.4
0°-40°	5346.6	58.6
0°-60°	7893.8	86.5
0°-90°	9125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9125.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4557	4557	4557	4557	4557	
5°	4596	4724	4594	4958	4596	437
15°	4496	4083	4507	4212	4496	1272
25°	4312	3805	4319	3770	4312	1989
35°	4012	827	4020	862	4012	2514
45°	3636	804	3648	833	3636	2804
55°	3151	585	3176	593	3151	2814
65°	2475	393	2468	386	2475	2434
75°	1451	198	1462	190	1451	1518
85°	261	63	276	48	261	359
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4592.3	4609.0	4621.5	4629.9	4634.1	4634.1	4636.1	4638.2	4665.4	4677.9	4686.3
5°	4596.5	4613.2	4638.2	4671.6	4700.9	4725.9	4746.8	4776.1	4805.3	4836.6	4847.1
7.5°	4577.7	4598.6	4648.7	4709.2	4765.6	4805.3	4832.5	4851.2	4865.9	4868.0	4878.4
10°	4561.0	4598.6	4667.5	4746.8	4817.8	4865.9	4865.9	4855.4	4870.0	4813.7	4757.3
12.5°	4531.7	4573.5	4667.5	4771.9	4838.7	4857.5	4849.2	4807.4	4721.8	4652.9	4621.5
15°	4496.2	4552.6	4669.6	4786.5	4842.9	4849.2	4769.8	4663.3	4598.6	4556.8	4504.6
17.5°	4456.5	4531.7	4671.6	4788.6	4809.5	4780.2	4629.9	4563.1	4496.2	4398.1	4327.1
20°	4419.0	4492.1	4654.9	4759.4	4771.9	4640.3	4523.4	4452.4	4339.6	4254.0	4222.7
22.5°	4360.5	4446.1	4640.3	4719.7	4671.6	4519.2	4406.4	4293.7	4191.3	4166.3	4128.7
25°	4312.5	4402.3	4606.9	4671.6	4544.3	4408.5	4277.0	4145.4	4097.4	4061.9	4028.4
27.5°	4247.7	4358.4	4563.1	4583.9	4408.5	4289.5	4097.4	4038.9	3995.0	3955.3	3940.7
30°	4176.7	4312.5	4502.5	4462.8	4295.7	4120.3	3978.3	3924.0	3892.7	3850.9	3834.2
32.5°	4095.3	4243.5	4435.7	4322.9	4174.6	3955.3	3863.5	3821.7	3779.9	3748.6	3644.2
35°	4011.7	4183.0	4356.3	4189.2	4028.4	3830.0	3748.6	3711.0	3671.3	3556.5	3447.9
37.5°	3926.1	4116.1	4260.2	4045.1	3834.2	3700.6	3631.6	3589.9	3500.1	3353.9	3299.6
40°	3828.0	4034.7	4137.0	3896.9	3665.1	3569.0	3504.3	3462.5	3259.9	3195.2	3178.5
42.5°	3729.8	3955.3	3986.7	3752.8	3525.1	3429.1	3374.8	3236.9	3099.1	3065.7	3072.0
45°	3635.8	3869.7	3821.7	3548.1	3379.0	3299.6	3207.7	3017.7	2944.6	2961.3	2965.5
47.5°	3523.1	3767.4	3648.4	3343.5	3228.6	3149.2	2944.6	2829.7	2819.3	2842.3	2854.8
50°	3401.9	3652.5	3464.6	3157.6	3065.7	2971.7	2739.9	2681.4	2694.0	2716.9	2731.6
52.5°	3289.2	3523.1	3274.5	2984.3	2904.9	2689.8	2533.2	2543.6	2564.5	2591.6	2600.0
55°	3151.3	3366.4	3072.0	2808.8	2733.7	2451.7	2380.7	2405.8	2426.7	2449.6	2466.3
57.5°	3007.2	3186.8	2831.8	2612.5	2491.4	2240.8	2247.1	2263.8	2278.4	2305.5	952.3
60°	2842.3	2982.2	2568.7	2430.8	2190.7	2073.7	2080.0	2109.2	2123.9	1186.2	655.7
62.5°	2671.0	2744.1	2330.6	2224.1	1915.0	1906.7	1935.9	1948.4	1326.1	626.5	614.0
65°	2474.7	2460.1	2096.7	1927.6	1727.1	1735.4	1766.7	1704.1	586.8	586.8	582.7
67.5°	2257.5	2169.8	1869.1	1595.5	1545.4	1564.2	1597.6	557.6	543.0	547.1	532.5
70°	2009.0	1885.8	1633.1	1351.2	1367.9	1386.7	538.8	505.4	499.1	488.7	459.4
72.5°	1745.9	1576.7	1336.5	1173.7	1184.1	743.5	472.0	455.3	434.4	413.5	382.2
75°	1451.4	1232.1	981.5	981.5	996.1	423.9	411.4	384.3	361.3	334.1	315.3
77.5°	1138.2	948.1	762.2	791.5	386.3	355.0	332.0	302.8	284.0	267.3	256.9
80°	833.3	662.0	574.3	513.7	300.7	269.4	246.4	229.7	221.4	210.9	198.4
82.5°	547.1	398.9	398.9	242.2	210.9	185.9	179.6	167.1	158.7	152.4	146.2
85°	261.0	231.8	175.4	148.3	131.6	119.0	114.9	108.6	108.6	106.5	104.4
87.5°	96.1	104.4	77.3	75.2	71.0	68.9	71.0	71.0	73.1	71.0	68.9
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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4707.2	4723.9	4736.4	4757.3	4784.4	4807.4	4828.3	4857.5	4903.5	4916.0	4926.4
5°	4847.1	4853.3	4868.0	4884.7	4888.8	4899.3	4897.2	4909.7	4916.0	4930.6	4899.3
7.5°	4855.4	4822.0	4782.3	4746.8	4721.8	4698.8	4684.2	4707.2	4719.7	4730.1	4698.8
10°	4680.0	4640.3	4617.4	4596.5	4571.4	4535.9	4487.9	4498.3	4494.1	4494.1	4483.7
12.5°	4569.3	4512.9	4454.5	4402.3	4379.3	4377.2	4379.3	4402.3	4402.3	4400.2	4387.6
15°	4396.0	4341.7	4312.5	4299.9	4299.9	4293.7	4293.7	4318.7	4312.5	4312.5	4306.2
17.5°	4281.1	4243.5	4222.7	4208.0	4201.8	4212.2	4224.7	4235.2	4237.3	4228.9	4195.5
20°	4187.2	4151.6	4126.6	4130.8	4128.7	4134.9	4141.2	4105.7	4061.9	4003.4	3976.2
22.5°	4089.0	4061.9	4043.1	4043.1	4018.0	3978.3	3919.8	3907.3	3901.0	3873.9	3850.9
25°	3995.0	3963.7	3936.5	3853.0	3800.8	3807.1	3796.6	3775.7	3773.7	3771.6	3779.9
27.5°	3901.0	3819.6	3715.2	3702.7	3681.8	3679.7	3692.2	3702.7	3702.7	3711.0	3721.4
30°	3706.8	3612.9	3594.1	3571.1	3579.4	3608.7	3614.9	3629.6	3633.7	3648.4	3656.7
32.5°	3529.3	3487.6	3470.8	3481.3	3508.4	3533.5	3548.1	3554.4	3564.8	3577.4	3587.8
35°	3385.2	3372.7	3387.3	3410.3	3437.4	3458.3	3470.8	3483.4	3493.8	3504.3	3512.6
37.5°	3278.7	3287.1	3308.0	3337.2	3364.3	3381.0	3391.5	3406.1	3420.7	3433.3	3383.1
40°	3178.5	3199.4	3222.3	3253.7	3276.6	3293.3	3303.8	3322.6	3197.3	1447.2	793.6
42.5°	3090.8	3113.7	3130.4	3155.5	3180.6	3193.1	3101.2	1384.6	783.1	779.0	789.4
45°	2984.3	3003.1	3030.2	3049.0	3072.0	2017.4	770.6	779.0	766.4	774.8	779.0
47.5°	2875.7	2904.9	2919.5	2785.9	829.1	766.4	758.1	766.4	758.1	768.5	762.2
50°	2752.5	2788.0	1983.9	749.7	743.5	739.3	747.6	743.5	749.7	758.1	741.4
52.5°	2627.2	1626.8	726.7	722.6	726.7	722.6	737.2	726.7	728.8	720.5	699.6
55°	889.6	703.8	697.5	695.4	708.0	708.0	708.0	691.2	680.8	659.9	645.3
57.5°	680.8	680.8	678.7	680.8	676.6	672.5	653.7	639.0	624.4	595.2	586.8
60°	645.3	645.3	645.3	645.3	626.5	618.2	588.9	576.4	551.3	536.7	528.4
62.5°	616.1	611.9	593.1	586.8	565.9	543.0	526.3	513.7	488.7	480.3	474.1
65°	574.3	559.7	536.7	511.6	501.2	476.1	467.8	449.0	436.5	430.2	426.0
67.5°	505.4	484.5	465.7	449.0	430.2	421.8	411.4	396.8	388.4	384.3	380.1
70°	432.3	417.7	398.9	388.4	375.9	369.6	355.0	350.8	344.6	338.3	332.0
72.5°	361.3	352.9	344.6	330.0	325.8	321.6	307.0	298.6	290.3	281.9	277.8
75°	302.8	296.5	292.4	279.8	273.6	261.0	250.6	244.3	238.1	231.8	227.6
77.5°	248.5	244.3	231.8	223.5	219.3	208.8	204.7	206.7	202.6	194.2	190.0
80°	194.2	190.0	179.6	179.6	175.4	171.2	167.1	162.9	158.7	152.4	148.3
82.5°	148.3	144.1	139.9	135.7	131.6	129.5	127.4	123.2	119.0	114.9	112.8
85°	104.4	102.3	100.2	98.2	96.1	94.0	91.9	87.7	83.5	81.4	79.4
87.5°	71.0	68.9	66.8	64.7	62.7	60.6	58.5	56.4	52.2	50.1	48.0
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4926.4	4936.9	4926.4	4903.5	4888.8	4882.6	4895.1	4895.1	4903.5	4913.9	4916.0
5°	4849.2	4824.1	4794.9	4765.6	4751.0	4742.7	4719.7	4723.9	4730.1	4734.3	4738.5
7.5°	4657.0	4623.6	4583.9	4546.3	4531.7	4519.2	4492.1	4492.1	4492.1	4494.1	4506.7
10°	4460.7	4446.1	4429.4	4404.3	4385.5	4379.3	4356.3	4362.6	4358.4	4364.7	4379.3
12.5°	4368.8	4352.1	4337.5	4312.5	4291.6	4283.2	4272.8	4279.0	4277.0	4287.4	4299.9
15°	4285.3	4277.0	4260.2	4241.4	4222.7	4205.9	4168.4	4155.8	4147.5	4137.0	4151.6
17.5°	4147.5	4089.0	4049.3	4020.1	3999.2	3984.6	3974.1	3974.1	3980.4	3986.7	3999.2
20°	3959.5	3942.8	3924.0	3892.7	3871.8	3863.5	3857.2	3857.2	3867.6	3876.0	3899.0
22.5°	3830.0	3828.0	3821.7	3807.1	3796.6	3796.6	3798.7	3802.9	3817.5	3830.0	3853.0
25°	3769.5	3777.8	3773.7	3765.3	3759.0	3761.1	3757.0	3761.1	3775.7	3788.3	3807.1
27.5°	3721.4	3734.0	3729.8	3717.3	3706.8	3711.0	3717.3	3713.1	3725.6	3740.2	3754.9
30°	3656.7	3658.8	3667.2	3652.5	3648.4	3654.6	3656.7	3660.9	3673.4	3683.9	3696.4
32.5°	3583.6	3600.3	3598.2	3583.6	3583.6	3589.9	3592.0	3452.1	3191.0	2748.3	2627.2
35°	3512.6	3531.4	3500.1	2950.8	2042.4	1090.1	841.6	812.4	818.6	822.8	827.0
37.5°	2597.9	1232.1	785.2	791.5	797.8	804.0	810.3	816.5	822.8	829.1	831.2
40°	781.0	779.0	785.2	793.6	799.8	804.0	812.4	818.6	824.9	831.2	833.3
42.5°	772.7	776.9	783.1	791.5	799.8	808.2	814.5	822.8	827.0	831.2	833.3
45°	768.5	776.9	785.2	791.5	797.8	801.9	806.1	808.2	806.1	806.1	810.3
47.5°	762.2	770.6	772.7	770.6	772.7	770.6	770.6	770.6	764.3	762.2	762.2
50°	739.3	739.3	735.1	726.7	724.7	722.6	718.4	716.3	708.0	705.9	705.9
52.5°	691.2	689.2	682.9	672.5	668.3	664.1	662.0	659.9	651.6	647.4	649.5
55°	634.9	630.7	624.4	611.9	609.8	605.6	603.5	601.4	593.1	597.3	591.0
57.5°	582.7	574.3	565.9	563.9	555.5	553.4	551.3	549.2	543.0	545.1	540.9
60°	520.0	517.9	513.7	505.4	505.4	503.3	503.3	499.1	494.9	492.9	492.9
62.5°	474.1	467.8	463.6	463.6	457.3	457.3	457.3	453.2	449.0	451.1	449.0
65°	423.9	421.8	419.8	415.6	415.6	413.5	413.5	409.3	403.1	405.1	401.0
67.5°	382.2	378.0	373.8	371.7	363.4	359.2	357.1	355.0	346.7	348.8	344.6
70°	330.0	323.7	319.5	315.3	309.1	304.9	304.9	300.7	294.5	296.5	292.4
72.5°	275.7	271.5	267.3	265.2	259.0	256.9	254.8	252.7	246.4	248.5	246.4
75°	229.7	229.7	227.6	225.5	219.3	213.0	208.8	206.7	202.6	204.7	200.5
77.5°	190.0	185.9	181.7	181.7	175.4	171.2	167.1	167.1	167.1	165.0	162.9
80°	148.3	144.1	144.1	142.0	137.8	133.7	131.6	131.6	129.5	129.5	127.4
82.5°	112.8	108.6	106.5	106.5	102.3	100.2	98.2	96.1	96.1	96.1	94.0
85°	79.4	75.2	73.1	73.1	68.9	66.8	66.8	64.7	64.7	62.7	62.7
87.5°	48.0	45.9	43.9	43.9	39.7	37.6	37.6	37.6	35.5	35.5	33.4
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4916.0	4916.0	4901.4	4905.5	4899.3	4907.6	4897.2	4897.2	4909.7	4909.7	4918.1
5°	4740.6	4730.1	4728.0	4723.9	4703.0	4711.3	4700.9	4690.4	4705.1	4705.1	4723.9
7.5°	4500.4	4481.6	4490.0	4477.4	4464.9	4446.1	4452.4	4444.0	4454.5	4469.1	4487.9
10°	4377.2	4360.5	4370.9	4358.4	4364.7	4337.5	4339.6	4341.7	4352.1	4356.3	4373.0
12.5°	4297.8	4293.7	4289.5	4285.3	4289.5	4274.9	4266.5	4268.6	4272.8	4274.9	4287.4
15°	4130.8	4103.6	4112.0	4082.7	4084.8	4086.9	4070.2	4086.9	4084.8	4112.0	4137.0
17.5°	3995.0	3995.0	3980.4	3967.9	3959.5	3957.4	3944.9	3953.3	3944.9	3961.6	3967.9
20°	3901.0	3899.0	3896.9	3890.6	3869.7	3871.8	3878.1	3859.3	3857.2	3855.1	3867.6
22.5°	3857.2	3859.3	3850.9	3850.9	3832.1	3836.3	3838.4	3817.5	3819.6	3813.3	3819.6
25°	3811.2	3815.4	3805.0	3805.0	3800.8	3798.7	3788.3	3792.5	3779.9	3769.5	3779.9
27.5°	3757.0	3765.3	3757.0	3761.1	3752.8	3748.6	3742.3	3738.2	3725.6	3723.5	3729.8
30°	3706.8	3711.0	3708.9	3698.5	3696.4	3683.9	3690.1	3677.6	3665.1	3667.2	3671.3
32.5°	1900.4	1814.8	1399.2	1263.5	1250.9	1296.9	1537.0	1871.2	2424.6	2961.3	3347.6
35°	829.1	829.1	829.1	827.0	827.0	824.9	822.8	820.7	818.6	816.5	814.5
37.5°	833.3	833.3	833.3	833.3	831.2	829.1	829.1	824.9	822.8	820.7	818.6
40°	835.3	837.4	837.4	837.4	835.3	835.3	833.3	829.1	827.0	822.8	818.6
42.5°	833.3	835.3	835.3	833.3	833.3	831.2	831.2	829.1	827.0	824.9	822.8
45°	806.1	808.2	804.0	804.0	801.9	801.9	801.9	801.9	801.9	804.0	804.0
47.5°	758.1	758.1	756.0	753.9	753.9	751.8	753.9	751.8	756.0	758.1	762.2
50°	701.7	701.7	697.5	695.4	695.4	695.4	695.4	697.5	699.6	703.8	708.0
52.5°	643.2	643.2	641.1	639.0	636.9	636.9	643.2	641.1	643.2	645.3	651.6
55°	586.8	588.9	584.7	584.7	582.7	582.7	582.7	584.7	586.8	588.9	595.2
57.5°	538.8	538.8	534.6	534.6	534.6	532.5	538.8	534.6	536.7	538.8	543.0
60°	490.8	488.7	488.7	486.6	486.6	486.6	490.8	488.7	488.7	490.8	494.9
62.5°	446.9	446.9	444.8	444.8	442.7	442.7	446.9	444.8	444.8	446.9	449.0
65°	396.8	396.8	394.7	392.6	398.9	392.6	398.9	394.7	398.9	401.0	405.1
67.5°	340.4	340.4	340.4	338.3	338.3	342.5	344.6	340.4	342.5	346.7	348.8
70°	290.3	290.3	288.2	288.2	288.2	292.4	294.5	290.3	292.4	294.5	298.6
72.5°	246.4	242.2	242.2	240.2	244.3	244.3	246.4	244.3	246.4	246.4	250.6
75°	202.6	198.4	198.4	198.4	202.6	200.5	202.6	200.5	202.6	202.6	204.7
77.5°	162.9	160.8	158.7	158.7	162.9	162.9	162.9	160.8	162.9	165.0	167.1
80°	127.4	125.3	123.2	123.2	127.4	127.4	127.4	129.5	127.4	129.5	131.6
82.5°	94.0	91.9	89.8	94.0	94.0	94.0	94.0	96.1	94.0	96.1	98.2
85°	62.7	60.6	58.5	62.7	62.7	62.7	62.7	64.7	62.7	64.7	66.8
87.5°	33.4	31.3	31.3	33.4	33.4	33.4	35.5	35.5	35.5	37.6	37.6
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4930.6	4936.9	4934.8	4922.3	4909.7	4895.1	4884.7	4886.8	4907.6	4913.9	4895.1
5°	4723.9	4763.5	4763.5	4790.7	4776.1	4763.5	4771.9	4817.8	4840.8	4876.3	4888.8
7.5°	4510.8	4529.6	4527.6	4554.7	4550.5	4550.5	4556.8	4617.4	4646.6	4675.8	4684.2
10°	4391.8	4410.6	4408.5	4410.6	4404.3	4389.7	4389.7	4416.9	4441.9	4456.5	4460.7
12.5°	4306.2	4316.6	4314.5	4314.5	4310.4	4297.8	4295.7	4318.7	4345.9	4364.7	4366.7
15°	4178.8	4208.0	4214.3	4241.4	4235.2	4218.5	4222.7	4241.4	4258.2	4274.9	4268.6
17.5°	3988.8	4003.4	4005.5	4015.9	4011.7	4011.7	4036.8	4105.7	4151.6	4191.3	4195.5
20°	3880.2	3890.6	3886.4	3909.4	3899.0	3896.9	3903.1	3932.4	3953.3	3972.1	4005.5
22.5°	3828.0	3836.3	3830.0	3832.1	3813.3	3796.6	3792.5	3815.4	3838.4	3863.5	3863.5
25°	3784.1	3790.4	3788.3	3784.1	3769.5	3746.5	3742.3	3746.5	3754.9	3757.0	3742.3
27.5°	3731.9	3736.1	3736.1	3738.2	3719.4	3698.5	3694.3	3690.1	3698.5	3696.4	3673.4
30°	3677.6	3671.3	3673.4	3675.5	3658.8	3640.0	3631.6	3629.6	3637.9	3635.8	3612.9
32.5°	3548.1	3596.1	3600.3	3604.5	3589.9	3573.2	3564.8	3558.6	3562.7	3560.6	3539.8
35°	812.4	827.0	1012.9	2293.0	3113.7	3447.9	3483.4	3475.0	3477.1	3477.1	3460.4
37.5°	814.5	812.4	810.3	804.0	797.8	793.6	1372.0	2925.8	3389.4	3391.5	3376.9
40°	814.5	812.4	810.3	806.1	797.8	791.5	781.0	772.7	791.5	1741.7	3186.8
42.5°	818.6	814.5	810.3	806.1	797.8	789.4	781.0	770.6	776.9	772.7	762.2
45°	806.1	804.0	804.0	801.9	797.8	789.4	779.0	766.4	760.2	766.4	756.0
47.5°	766.4	768.5	774.8	776.9	776.9	779.0	772.7	764.3	753.9	760.2	747.6
50°	712.1	716.3	718.4	728.8	733.0	741.4	743.5	743.5	741.4	749.7	741.4
52.5°	653.7	657.8	668.3	672.5	676.6	689.2	693.3	699.6	703.8	716.3	724.7
55°	597.3	599.4	603.5	611.9	618.2	628.6	634.9	641.1	651.6	657.8	682.9
57.5°	545.1	547.1	555.5	557.6	561.8	570.1	576.4	584.7	593.1	597.3	626.5
60°	494.9	497.0	503.3	505.4	507.5	515.8	522.1	528.4	534.6	538.8	559.7
62.5°	451.1	451.1	457.3	457.3	459.4	465.7	469.9	474.1	480.3	482.4	492.9
65°	407.2	409.3	413.5	413.5	415.6	419.8	421.8	423.9	430.2	430.2	438.6
67.5°	352.9	355.0	361.3	365.5	367.6	375.9	378.0	380.1	384.3	386.3	390.5
70°	300.7	302.8	309.1	311.2	313.3	319.5	323.7	330.0	336.2	342.5	346.7
72.5°	252.7	254.8	261.0	261.0	267.3	269.4	273.6	275.7	281.9	286.1	292.4
75°	206.7	208.8	215.1	215.1	221.4	223.5	225.5	227.6	231.8	236.0	240.2
77.5°	169.2	169.2	177.5	181.7	185.9	185.9	188.0	188.0	188.0	190.0	194.2
80°	133.7	133.7	139.9	144.1	148.3	148.3	150.4	152.4	154.5	154.5	156.6
82.5°	100.2	100.2	106.5	108.6	112.8	112.8	112.8	114.9	116.9	114.9	119.0
85°	68.9	68.9	73.1	75.2	79.4	79.4	79.4	81.4	83.5	81.4	83.5
87.5°	39.7	41.8	43.9	45.9	48.0	50.1	50.1	50.1	52.2	52.2	54.3
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4874.2	4849.2	4847.1	4817.8	4809.5	4811.6	4788.6	4780.2	4742.7	4734.3	4694.6
5°	4893.0	4905.5	4899.3	4897.2	4903.5	4899.3	4882.6	4874.2	4868.0	4851.2	4817.8
7.5°	4686.3	4694.6	4700.9	4728.0	4751.0	4790.7	4832.5	4859.6	4880.5	4884.7	4857.5
10°	4475.3	4515.0	4542.2	4583.9	4617.4	4640.3	4665.4	4688.4	4748.9	4809.5	4845.0
12.5°	4366.7	4377.2	4375.1	4398.1	4421.0	4481.6	4540.1	4573.5	4619.4	4646.6	4711.3
15°	4274.9	4277.0	4283.2	4299.9	4312.5	4333.3	4360.5	4410.6	4502.5	4544.3	4579.8
17.5°	4191.3	4191.3	4195.5	4210.1	4226.8	4245.6	4262.3	4283.2	4329.2	4398.1	4485.8
20°	4057.7	4116.1	4122.4	4120.3	4128.7	4164.2	4168.4	4205.9	4228.9	4256.1	4341.7
22.5°	3859.3	3894.8	3944.9	4022.2	4051.4	4068.1	4080.6	4097.4	4132.9	4164.2	4199.7
25°	3750.7	3773.7	3788.3	3811.2	3871.8	3970.0	3988.8	4007.6	4030.5	4053.5	4097.4
27.5°	3654.6	3652.5	3663.0	3683.9	3700.6	3752.8	3844.7	3917.8	3921.9	3955.3	3992.9
30°	3585.7	3573.2	3558.6	3554.4	3577.4	3604.5	3631.6	3746.5	3825.9	3842.6	3882.3
32.5°	3521.0	3500.1	3479.2	3462.5	3447.9	3470.8	3487.6	3537.7	3640.0	3736.1	3757.0
35°	3441.6	3420.7	3395.7	3376.9	3353.9	3351.8	3349.7	3397.8	3431.2	3546.0	3646.3
37.5°	3360.2	3337.2	3316.3	3295.4	3272.5	3255.7	3245.3	3257.8	3289.2	3339.3	3506.3
40°	3274.5	3247.4	3226.5	3209.8	3178.5	3165.9	3145.1	3136.7	3138.8	3182.7	3270.4
42.5°	1956.8	3120.0	3130.4	3111.6	3084.5	3067.8	3044.8	3034.4	3013.5	3034.4	3084.5
45°	753.9	762.2	2282.6	3015.6	2982.2	2961.3	2940.4	2930.0	2907.0	2890.3	2936.2
47.5°	739.3	747.6	730.9	1035.8	2846.4	2852.7	2827.6	2817.2	2794.2	2781.7	2769.2
50°	728.8	735.1	722.6	726.7	712.1	2608.4	2712.8	2700.2	2675.2	2660.6	2635.5
52.5°	718.4	718.4	710.0	699.6	695.4	697.5	2194.9	2581.2	2552.0	2537.4	2503.9
55°	685.0	689.2	697.5	680.8	676.6	674.5	668.3	2090.4	2416.2	2399.5	2370.3
57.5°	634.9	643.2	666.2	662.0	662.0	645.3	641.1	641.1	1940.1	2259.6	2230.4
60°	576.4	584.7	609.8	618.2	624.4	620.2	616.1	614.0	605.6	2044.5	2082.1
62.5°	515.8	524.2	532.5	559.7	568.0	578.5	591.0	584.7	576.4	576.4	1925.5
65°	451.1	463.6	467.8	492.9	503.3	522.1	532.5	547.1	543.0	540.9	551.3
67.5°	394.7	409.3	411.4	421.8	440.6	449.0	461.5	488.7	501.2	505.4	509.6
70°	346.7	355.0	361.3	365.5	378.0	380.1	403.1	421.8	440.6	461.5	467.8
72.5°	298.6	304.9	317.4	313.3	317.4	325.8	338.3	350.8	369.6	398.9	417.7
75°	244.3	248.5	256.9	261.0	269.4	275.7	284.0	294.5	311.2	325.8	350.8
77.5°	196.3	198.4	204.7	206.7	215.1	221.4	236.0	242.2	252.7	263.1	277.8
80°	158.7	158.7	160.8	160.8	167.1	173.3	183.8	190.0	202.6	210.9	210.9
82.5°	121.1	121.1	127.4	127.4	131.6	131.6	137.8	137.8	144.1	148.3	152.4
85°	85.6	87.7	91.9	89.8	94.0	91.9	96.1	100.2	102.3	100.2	98.2
87.5°	56.4	56.4	60.6	58.5	60.6	60.6	64.7	64.7	66.8	66.8	64.7
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4680.0	4648.7	4629.9	4606.9	4600.6	4594.4	4602.7	4602.7	4590.2	4579.8	4561.0
5°	4788.6	4755.2	4719.7	4682.1	4646.6	4609.0	4594.4	4592.3	4569.3	4556.8	4550.5
7.5°	4845.0	4828.3	4788.6	4736.4	4682.1	4615.3	4586.0	4569.3	4546.3	4542.2	4542.2
10°	4851.2	4832.5	4811.6	4774.0	4711.3	4623.6	4567.2	4533.8	4512.9	4527.6	4554.7
12.5°	4790.7	4826.2	4807.4	4782.3	4732.2	4625.7	4544.3	4494.1	4487.9	4525.5	4596.5
15°	4636.1	4740.6	4792.8	4767.7	4728.0	4621.5	4506.7	4448.2	4448.2	4525.5	4617.4
17.5°	4519.2	4600.6	4728.0	4748.9	4703.0	4613.2	4471.2	4402.3	4421.0	4533.8	4632.0
20°	4423.1	4473.3	4596.5	4713.4	4669.6	4594.4	4419.0	4348.0	4385.5	4521.3	4652.9
22.5°	4272.8	4373.0	4448.2	4621.5	4636.1	4558.9	4366.7	4281.1	4356.3	4521.3	4642.4
25°	4126.6	4247.7	4327.1	4496.2	4586.0	4515.0	4318.7	4210.1	4325.0	4515.0	4634.1
27.5°	4024.3	4080.6	4224.7	4345.9	4510.8	4456.5	4254.0	4132.9	4285.3	4481.6	4586.0
30°	3915.7	3953.3	4095.3	4210.1	4410.6	4389.7	4187.2	4047.2	4235.2	4450.3	4460.7
32.5°	3796.6	3838.4	3911.5	4078.6	4270.7	4327.1	4112.0	3961.6	4180.9	4402.3	4314.5
35°	3675.5	3706.8	3765.3	3944.9	4107.8	4233.1	4020.1	3863.5	4143.3	4329.2	4174.6
37.5°	3554.4	3587.8	3637.9	3788.3	3936.5	4145.4	3940.7	3765.3	4074.4	4199.7	4028.4
40°	3439.5	3458.3	3510.5	3604.5	3794.5	4055.6	3850.9	3663.0	4003.4	4034.7	3830.0
42.5°	3228.6	3322.6	3370.6	3445.8	3633.7	3932.4	3746.5	3554.4	3924.0	3869.7	3631.6
45°	3001.0	3205.6	3226.5	3301.7	3491.7	3800.8	3648.4	3447.9	3848.8	3727.7	3443.7
47.5°	2815.1	2963.4	3084.5	3147.2	3322.6	3646.3	3556.5	3358.1	3736.1	3548.1	3259.9
50°	2650.1	2729.5	2948.8	2994.7	3120.0	3460.4	3447.9	3253.7	3579.4	3322.6	3080.3
52.5°	2489.3	2545.7	2744.1	2842.3	2944.6	3259.9	3318.4	3151.3	3408.2	3097.0	2898.6
55°	2349.4	2368.2	2476.8	2683.5	2775.4	3057.4	3176.4	3032.3	3191.0	2881.9	2723.2
57.5°	2205.3	2188.6	2268.0	2533.2	2600.0	2850.6	3026.0	2911.2	3015.6	2662.7	2541.5
60°	2054.9	2032.0	2065.4	2240.8	2414.1	2645.9	2848.5	2777.5	2802.6	2445.5	2339.0
62.5°	1898.3	1875.3	1864.9	1975.6	2232.5	2435.0	2668.9	2629.2	2541.5	2247.1	2088.4
65°	1735.4	1712.5	1695.7	1739.6	2032.0	2161.4	2468.4	2458.0	2255.4	2038.2	1758.4
67.5°	528.4	1557.9	1522.4	1520.3	1712.5	1912.9	2251.2	2234.5	1967.2	1814.8	1514.1
70°	476.1	1263.5	1342.8	1324.0	1407.6	1660.2	2002.7	1990.2	1687.4	1455.6	1338.6
72.5°	436.5	446.9	1186.2	1165.3	1184.1	1411.7	1743.8	1710.4	1430.5	1148.6	1156.9
75°	373.8	392.6	409.3	983.6	958.6	1169.5	1461.8	1409.6	1179.9	948.1	966.9
77.5°	304.9	327.9	340.4	716.3	774.8	833.3	1167.4	1098.5	812.4	758.1	361.3
80°	227.6	246.4	267.3	286.1	588.9	582.7	866.7	797.8	565.9	472.0	281.9
82.5°	167.1	173.3	185.9	206.7	233.9	390.5	557.6	490.8	392.6	215.1	194.2
85°	104.4	112.8	119.0	125.3	142.0	233.9	275.7	219.3	165.0	131.6	123.2
87.5°	66.8	66.8	64.7	66.8	68.9	83.5	94.0	89.8	71.0	66.8	66.8
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4540.1	4510.8	4510.8	4502.5	4508.8	4508.8	4506.7	4508.8	4523.4	4531.7	4546.3
5°	4538.0	4529.6	4548.4	4571.4	4598.6	4632.0	4640.3	4669.6	4696.7	4732.2	4769.8
7.5°	4565.1	4594.4	4629.9	4667.5	4721.8	4761.4	4797.0	4832.5	4857.5	4890.9	4911.8
10°	4604.8	4663.3	4723.9	4771.9	4830.4	4863.8	4886.8	4890.9	4855.4	4799.0	4753.1
12.5°	4661.2	4730.1	4786.5	4832.5	4859.6	4847.1	4780.2	4711.3	4671.6	4613.2	4531.7
15°	4709.2	4771.9	4830.4	4811.6	4738.5	4669.6	4617.4	4535.9	4456.5	4402.3	4366.7
17.5°	4730.1	4790.7	4769.8	4671.6	4602.7	4523.4	4416.9	4354.2	4302.0	4260.2	4239.4
20°	4742.7	4732.2	4619.4	4548.4	4414.8	4341.7	4272.8	4214.3	4174.6	4153.7	4149.6
22.5°	4709.2	4581.9	4485.8	4358.4	4260.2	4199.7	4145.4	4097.4	4070.2	4053.5	4043.1
25°	4598.6	4450.3	4308.3	4208.0	4124.5	4072.3	4030.5	3990.8	3957.4	3949.1	3928.2
27.5°	4444.0	4322.9	4134.9	4057.7	3984.6	3959.5	3913.6	3873.9	3844.7	3819.6	3752.8
30°	4316.6	4124.5	3988.8	3917.8	3873.9	3844.7	3792.5	3750.7	3700.6	3608.7	3571.1
32.5°	4160.0	3970.0	3840.5	3800.8	3746.5	3721.4	3663.0	3571.1	3493.8	3456.2	3454.1
35°	3957.4	3800.8	3706.8	3671.3	3627.5	3585.7	3464.6	3381.0	3343.5	3347.6	3379.0
37.5°	3788.3	3648.4	3587.8	3537.7	3487.6	3381.0	3278.7	3239.0	3249.5	3270.4	3285.0
40°	3617.0	3510.5	3441.6	3401.9	3289.2	3184.7	3130.4	3145.1	3163.9	3178.5	3197.3
42.5°	3450.0	3374.8	3305.9	3228.6	3074.1	3017.7	3030.2	3049.0	3065.7	3086.6	3105.4
45°	3291.2	3224.4	3145.1	2969.6	2892.4	2907.0	2925.8	2940.4	2965.5	2980.1	2998.9
47.5°	3140.9	3069.9	2930.0	2775.4	2767.1	2796.3	2813.0	2831.8	2850.6	2813.0	1551.6
50°	2971.7	2898.6	2685.6	2627.2	2645.9	2673.1	2694.0	2712.8	2416.2	960.6	739.3
52.5°	2804.7	2618.8	2483.1	2499.8	2518.6	2549.9	2564.5	1904.6	758.1	722.6	724.7
55°	2618.8	2380.7	2341.0	2361.9	2378.6	2410.0	1597.6	699.6	695.4	693.3	710.0
57.5°	2326.4	2182.3	2199.0	2219.9	2236.6	1578.8	680.8	676.6	678.7	680.8	682.9
60°	2065.4	2034.1	2052.9	2071.6	1466.0	657.8	645.3	647.4	655.7	649.5	632.8
62.5°	1858.6	1883.7	1902.5	1666.5	624.4	618.2	624.4	618.2	603.5	593.1	572.2
65°	1699.9	1725.0	1739.6	586.8	584.7	593.1	586.8	565.9	543.0	513.7	507.5
67.5°	1532.9	1557.9	557.6	543.0	551.3	540.9	515.8	490.8	474.1	449.0	438.6
70°	1359.5	582.7	505.4	503.3	488.7	472.0	444.8	419.8	398.9	388.4	378.0
72.5°	981.5	461.5	455.3	438.6	413.5	390.5	367.6	352.9	342.5	336.2	330.0
75°	409.3	401.0	382.2	352.9	327.9	317.4	300.7	290.3	286.1	273.6	269.4
77.5°	342.5	325.8	298.6	277.8	263.1	256.9	244.3	231.8	225.5	223.5	215.1
80°	263.1	240.2	227.6	217.2	213.0	198.4	183.8	177.5	173.3	171.2	165.0
82.5°	179.6	171.2	162.9	148.3	148.3	142.0	135.7	131.6	127.4	127.4	123.2
85°	116.9	110.7	108.6	102.3	102.3	98.2	96.1	94.0	91.9	89.8	87.7
87.5°	66.8	66.8	68.9	66.8	66.8	64.7	62.7	60.6	58.5	58.5	54.3
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4565.1	4586.0	4590.2	4661.2	4700.9	4698.8	4686.3	4723.9	4700.9	4688.4	4700.9
5°	4807.4	4832.5	4853.3	4930.6	4957.8	4970.3	4968.2	4989.1	4972.4	4957.8	4957.8
7.5°	4926.4	4934.8	4943.1	4924.3	4911.8	4890.9	4859.6	4813.7	4790.7	4765.6	4734.3
10°	4730.1	4703.0	4713.4	4675.8	4644.5	4621.5	4592.3	4554.7	4523.4	4500.4	4464.9
12.5°	4490.0	4487.9	4492.1	4498.3	4467.0	4448.2	4425.2	4398.1	4375.1	4350.0	4320.8
15°	4343.8	4345.9	4362.6	4356.3	4345.9	4335.4	4310.4	4302.0	4281.1	4254.0	4237.3
17.5°	4239.4	4249.8	4266.5	4258.2	4241.4	4231.0	4212.2	4193.4	4174.6	4153.7	4128.7
20°	4147.5	4157.9	4168.4	4157.9	4126.6	4112.0	4086.9	4028.4	3986.7	3944.9	3907.3
22.5°	4047.2	4053.5	4045.1	4011.7	3932.4	3894.8	3865.5	3848.8	3813.3	3790.4	3767.4
25°	3921.9	3886.4	3832.1	3794.5	3763.2	3746.5	3734.0	3731.9	3727.7	3723.5	3713.1
27.5°	3717.3	3704.7	3675.5	3660.9	3663.0	3669.2	3671.3	3677.6	3671.3	3663.0	3654.6
30°	3564.8	3571.1	3573.2	3577.4	3587.8	3594.1	3596.1	3604.5	3600.3	3594.1	3589.9
32.5°	3468.8	3483.4	3491.7	3504.3	3510.5	3521.0	3521.0	3533.5	3521.0	3518.9	3514.7
35°	3389.4	3401.9	3406.1	3424.9	3431.2	3441.6	3441.6	3452.1	3441.6	3335.1	2633.4
37.5°	3310.0	3322.6	3330.9	3347.6	3349.7	3356.0	3097.0	2265.9	1461.8	1131.9	864.6
40°	3216.1	3230.7	3239.0	3245.3	2280.5	1447.2	996.1	810.3	810.3	816.5	822.8
42.5°	3115.8	3126.3	2178.2	1267.6	789.4	787.3	793.6	799.8	806.1	814.5	822.8
45°	2449.6	1236.3	785.2	766.4	772.7	781.0	789.4	797.8	808.2	816.5	820.7
47.5°	804.0	753.9	764.3	756.0	766.4	776.9	785.2	793.6	795.7	797.8	795.7
50°	743.5	743.5	749.7	749.7	758.1	762.2	762.2	762.2	753.9	751.8	745.5
52.5°	718.4	735.1	726.7	730.9	726.7	720.5	714.2	708.0	695.4	691.2	682.9
55°	705.9	712.1	691.2	685.0	676.6	659.9	651.6	643.2	632.8	628.6	618.2
57.5°	676.6	662.0	639.0	628.6	614.0	597.3	588.9	582.7	572.2	568.0	561.8
60°	622.3	593.1	578.5	565.9	549.2	534.6	528.4	524.2	515.8	513.7	507.5
62.5°	555.5	530.4	517.9	501.2	488.7	480.3	474.1	472.0	463.6	463.6	459.4
65°	482.4	469.9	459.4	442.7	436.5	428.1	426.0	423.9	419.8	417.7	413.5
67.5°	423.9	415.6	401.0	392.6	388.4	382.2	378.0	373.8	365.5	361.3	355.0
70°	371.7	365.5	350.8	344.6	336.2	325.8	319.5	315.3	309.1	304.9	298.6
72.5°	321.6	302.8	292.4	286.1	279.8	269.4	267.3	263.1	256.9	254.8	248.5
75°	259.0	244.3	238.1	233.9	227.6	221.4	221.4	221.4	215.1	213.0	210.9
77.5°	206.7	198.4	194.2	190.0	188.0	183.8	177.5	175.4	169.2	169.2	167.1
80°	158.7	154.5	150.4	148.3	146.2	142.0	137.8	135.7	129.5	129.5	127.4
82.5°	116.9	114.9	112.8	110.7	108.6	106.5	100.2	98.2	94.0	94.0	91.9
85°	83.5	81.4	77.3	75.2	75.2	73.1	66.8	64.7	60.6	60.6	60.6
87.5°	52.2	50.1	48.0	45.9	43.9	41.8	37.6	35.5	35.5	31.3	29.2
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4675.8	4711.3	4707.2	4732.2	4738.5	4751.0	4755.2	4757.3	4725.9	4751.0	4753.1
5°	4951.5	4957.8	4961.9	4972.4	4982.8	4984.9	4974.5	4961.9	4966.1	4957.8	4936.9
7.5°	4730.1	4698.8	4692.5	4684.2	4680.0	4675.8	4657.0	4673.7	4654.9	4646.6	4617.4
10°	4458.6	4429.4	4427.3	4427.3	4433.6	4431.5	4427.3	4419.0	4435.7	4425.2	4419.0
12.5°	4316.6	4306.2	4312.5	4308.3	4325.0	4329.2	4325.0	4325.0	4320.8	4312.5	4316.6
15°	4231.0	4222.7	4228.9	4222.7	4235.2	4237.3	4226.8	4233.1	4222.7	4212.2	4208.0
17.5°	4118.2	4099.4	4084.8	4063.9	4066.0	4061.9	4049.3	4049.3	4038.9	4011.7	4013.8
20°	3901.0	3882.3	3873.9	3873.9	3884.3	3888.5	3886.4	3890.6	3880.2	3876.0	3859.3
22.5°	3765.3	3763.2	3767.4	3777.8	3794.5	3817.5	3819.6	3819.6	3819.6	3817.5	3796.6
25°	3717.3	3717.3	3721.4	3736.1	3748.6	3765.3	3769.5	3773.7	3769.5	3769.5	3750.7
27.5°	3663.0	3658.8	3667.2	3681.8	3696.4	3708.9	3719.4	3721.4	3715.2	3715.2	3721.4
30°	3596.1	3594.1	3604.5	3619.1	3631.6	3644.2	3654.6	3663.0	3654.6	3654.6	3648.4
32.5°	3527.2	3527.2	3531.4	3443.7	3193.1	2875.7	2881.9	2698.2	2570.8	2410.0	2623.0
35°	2201.1	1601.8	1376.2	1165.3	1017.0	921.0	918.9	887.6	872.9	862.5	860.4
37.5°	831.2	835.3	843.7	847.9	854.1	858.3	860.4	860.4	860.4	860.4	858.3
40°	829.1	837.4	843.7	850.0	856.2	860.4	860.4	862.5	864.6	864.6	864.6
42.5°	831.2	839.5	847.9	854.1	858.3	860.4	862.5	864.6	864.6	864.6	864.6
45°	829.1	833.3	833.3	835.3	835.3	835.3	837.4	837.4	835.3	833.3	837.4
47.5°	797.8	797.8	791.5	789.4	787.3	783.1	785.2	783.1	781.0	779.0	783.1
50°	743.5	735.1	730.9	726.7	724.7	720.5	722.6	720.5	718.4	714.2	720.5
52.5°	678.7	676.6	668.3	664.1	662.0	664.1	659.9	657.8	655.7	653.7	655.7
55°	616.1	607.7	605.6	601.4	599.4	601.4	599.4	597.3	595.2	593.1	595.2
57.5°	559.7	553.4	551.3	547.1	547.1	547.1	547.1	545.1	543.0	540.9	543.0
60°	505.4	501.2	499.1	499.1	497.0	497.0	497.0	494.9	492.9	492.9	494.9
62.5°	459.4	459.4	453.2	451.1	451.1	453.2	451.1	449.0	446.9	444.8	449.0
65°	411.4	403.1	401.0	396.8	392.6	394.7	392.6	390.5	388.4	386.3	390.5
67.5°	352.9	350.8	342.5	338.3	336.2	338.3	336.2	334.1	332.0	330.0	334.1
70°	296.5	296.5	288.2	286.1	284.0	284.0	281.9	281.9	279.8	277.8	281.9
72.5°	246.4	246.4	244.3	240.2	238.1	236.0	233.9	231.8	231.8	233.9	233.9
75°	204.7	200.5	192.1	194.2	192.1	190.0	190.0	188.0	185.9	190.0	188.0
77.5°	160.8	158.7	152.4	154.5	152.4	150.4	150.4	148.3	146.2	148.3	148.3
80°	121.1	121.1	119.0	116.9	116.9	114.9	112.8	112.8	110.7	112.8	112.8
82.5°	87.7	87.7	85.6	83.5	81.4	81.4	79.4	79.4	79.4	79.4	79.4
85°	56.4	54.3	54.3	50.1	50.1	50.1	48.0	48.0	48.0	48.0	48.0
87.5°	27.1	27.1	25.1	25.1	23.0	20.9	20.9	18.8	18.8	20.9	20.9
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4715.5	4742.7	4719.7	4730.1	4732.2	4767.7	4765.6	4774.0	4759.4	4742.7	4719.7
5°	4955.7	4943.1	4926.4	4966.1	4945.2	4970.3	4978.6	4995.3	4995.3	4993.3	4974.5
7.5°	4648.7	4621.5	4642.4	4657.0	4663.3	4646.6	4680.0	4717.6	4748.9	4767.7	4769.8
10°	4408.5	4416.9	4414.8	4421.0	4435.7	4433.6	4454.5	4475.3	4483.7	4496.2	4500.4
12.5°	4295.7	4293.7	4297.8	4312.5	4320.8	4318.7	4339.6	4352.1	4356.3	4358.4	4356.3
15°	4205.9	4191.3	4201.8	4203.9	4210.1	4210.1	4235.2	4254.0	4262.3	4266.5	4262.3
17.5°	4036.8	4001.3	4034.7	4034.7	4057.7	4053.5	4093.2	4124.5	4141.2	4153.7	4153.7
20°	3869.7	3853.0	3865.5	3861.4	3878.1	3876.0	3901.0	3921.9	3936.5	3947.0	3959.5
22.5°	3802.9	3807.1	3788.3	3790.4	3790.4	3788.3	3800.8	3811.2	3815.4	3821.7	3817.5
25°	3759.0	3763.2	3757.0	3746.5	3742.3	3746.5	3752.8	3765.3	3767.4	3763.2	3748.6
27.5°	3715.2	3702.7	3713.1	3694.3	3690.1	3698.5	3706.8	3708.9	3711.0	3711.0	3698.5
30°	3648.4	3637.9	3648.4	3640.0	3631.6	3640.0	3646.3	3646.3	3650.4	3652.5	3637.9
32.5°	2549.9	2570.8	2909.1	3113.7	3401.9	3548.1	3575.3	3575.3	3579.4	3579.4	3566.9
35°	868.8	870.8	941.8	1021.2	1190.4	1399.2	1672.8	1814.8	2295.1	2869.4	3424.9
37.5°	858.3	856.2	854.1	852.0	850.0	847.9	843.7	841.6	854.1	1012.9	1374.1
40°	862.5	860.4	856.2	854.1	852.0	847.9	845.8	841.6	837.4	833.3	829.1
42.5°	862.5	860.4	858.3	856.2	854.1	852.0	847.9	843.7	839.5	833.3	827.0
45°	833.3	833.3	835.3	835.3	837.4	837.4	837.4	835.3	835.3	833.3	824.9
47.5°	779.0	779.0	785.2	785.2	789.4	793.6	793.6	797.8	804.0	808.2	810.3
50°	716.3	716.3	722.6	724.7	728.8	735.1	741.4	743.5	749.7	758.1	766.4
52.5°	653.7	653.7	659.9	659.9	664.1	670.4	676.6	678.7	687.1	695.4	705.9
55°	595.2	595.2	599.4	601.4	603.5	607.7	614.0	614.0	622.3	628.6	639.0
57.5°	543.0	547.1	547.1	547.1	549.2	553.4	557.6	557.6	563.9	570.1	578.5
60°	492.9	497.0	497.0	497.0	499.1	501.2	505.4	505.4	509.6	513.7	522.1
62.5°	446.9	451.1	451.1	453.2	453.2	455.3	459.4	457.3	461.5	463.6	469.9
65°	388.4	392.6	394.7	396.8	398.9	403.1	409.3	407.2	413.5	417.7	423.9
67.5°	332.0	336.2	336.2	338.3	340.4	344.6	348.8	348.8	355.0	359.2	367.6
70°	279.8	284.0	284.0	286.1	288.2	292.4	296.5	294.5	300.7	304.9	311.2
72.5°	231.8	236.0	236.0	238.1	238.1	242.2	246.4	250.6	250.6	254.8	259.0
75°	188.0	190.0	192.1	192.1	194.2	196.3	200.5	204.7	206.7	208.8	213.0
77.5°	148.3	150.4	152.4	152.4	154.5	156.6	158.7	167.1	171.2	173.3	173.3
80°	112.8	114.9	114.9	114.9	116.9	119.0	123.2	123.2	131.6	131.6	133.7
82.5°	79.4	81.4	81.4	81.4	83.5	87.7	89.8	91.9	96.1	98.2	98.2
85°	48.0	50.1	50.1	50.1	52.2	54.3	58.5	60.6	62.7	62.7	64.7
87.5°	18.8	20.9	23.0	23.0	25.1	27.1	29.2	31.3	33.4	33.4	35.5
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4694.6	4709.2	4694.6	4703.0	4713.4	4694.6	4650.8	4634.1	4627.8	4602.7	4586.0
5°	4955.7	4955.7	4949.4	4966.1	4964.0	4934.8	4888.8	4868.0	4847.1	4819.9	4799.0
7.5°	4769.8	4786.5	4797.0	4861.7	4903.5	4907.6	4936.9	4943.1	4951.5	4943.1	4930.6
10°	4502.5	4496.2	4525.5	4586.0	4621.5	4640.3	4696.7	4723.9	4746.8	4792.8	4840.8
12.5°	4352.1	4360.5	4373.0	4416.9	4450.3	4441.9	4464.9	4483.7	4510.8	4556.8	4625.7
15°	4251.9	4260.2	4272.8	4306.2	4327.1	4316.6	4329.2	4341.7	4360.5	4383.5	4425.2
17.5°	4143.3	4157.9	4172.5	4208.0	4226.8	4224.7	4235.2	4239.4	4245.6	4260.2	4289.5
20°	3974.1	4020.1	4049.3	4097.4	4124.5	4120.3	4139.1	4145.4	4153.7	4168.4	4180.9
22.5°	3819.6	3832.1	3846.7	3899.0	3944.9	4001.3	4013.8	4030.5	4051.4	4066.0	4078.6
25°	3731.9	3723.5	3729.8	3765.3	3790.4	3794.5	3813.3	3867.6	3924.0	3949.1	3978.3
27.5°	3679.7	3671.3	3669.2	3685.9	3690.1	3679.7	3675.5	3692.2	3734.0	3775.7	3863.5
30°	3623.3	3612.9	3604.5	3619.1	3625.4	3610.8	3583.6	3569.0	3594.1	3604.5	3640.0
32.5°	3556.5	3546.0	3541.8	3550.2	3554.4	3541.8	3512.6	3495.9	3491.7	3483.4	3491.7
35°	3481.3	3470.8	3464.6	3466.7	3475.0	3464.6	3439.5	3418.6	3408.2	3385.2	3368.5
37.5°	1793.9	2541.5	3299.6	3379.0	3387.3	3385.2	3360.2	3337.2	3326.7	3299.6	3291.2
40°	820.7	916.8	1376.2	1798.1	2593.7	3295.4	3272.5	3249.5	3230.7	3222.3	3191.0
42.5°	818.6	820.7	822.8	812.4	1006.6	1714.5	2531.1	3159.7	3147.2	3126.3	3103.3
45°	818.6	808.2	816.5	804.0	808.2	806.1	1004.5	1620.6	2884.0	3013.5	3003.1
47.5°	810.3	804.0	812.4	801.9	789.4	795.7	787.3	797.8	1244.7	2111.3	2892.4
50°	772.7	776.9	791.5	789.4	779.0	787.3	772.7	785.2	774.8	850.0	1637.3
52.5°	716.3	724.7	739.3	751.8	756.0	766.4	762.2	766.4	758.1	760.2	762.2
55°	649.5	659.9	672.5	691.2	699.6	716.3	728.8	735.1	745.5	743.5	726.7
57.5°	586.8	597.3	607.7	626.5	645.3	653.7	676.6	689.2	716.3	710.0	705.9
60°	528.4	536.7	547.1	551.3	574.3	588.9	609.8	622.3	657.8	666.2	678.7
62.5°	476.1	480.3	488.7	494.9	509.6	524.2	534.6	555.5	574.3	601.4	620.2
65°	428.1	432.3	438.6	442.7	444.8	465.7	472.0	494.9	501.2	530.4	547.1
67.5°	373.8	382.2	390.5	394.7	398.9	411.4	415.6	426.0	440.6	453.2	474.1
70°	317.4	323.7	332.0	338.3	346.7	355.0	367.6	373.8	384.3	392.6	409.3
72.5°	265.2	271.5	275.7	281.9	288.2	294.5	304.9	319.5	327.9	342.5	346.7
75°	215.1	221.4	225.5	229.7	236.0	240.2	244.3	259.0	267.3	279.8	292.4
77.5°	177.5	177.5	181.7	194.2	192.1	192.1	196.3	204.7	210.9	219.3	231.8
80°	137.8	139.9	142.0	152.4	154.5	156.6	154.5	160.8	167.1	169.2	177.5
82.5°	102.3	104.4	104.4	110.7	116.9	116.9	116.9	119.0	125.3	127.4	131.6
85°	68.9	71.0	73.1	75.2	79.4	81.4	83.5	83.5	87.7	89.8	91.9
87.5°	37.6	41.8	43.9	45.9	48.0	50.1	52.2	54.3	56.4	58.5	60.6
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-LD5-120SL-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°	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8	4556.8
2.5°	4579.8	4569.3	4563.1	4546.3	4542.2	4515.0	4519.2	4515.0	4515.0	4521.3	4542.2
5°	4776.1	4725.9	4713.4	4677.9	4648.7	4598.6	4567.2	4550.5	4525.5	4515.0	4529.6
7.5°	4909.7	4872.1	4840.8	4809.5	4767.7	4709.2	4665.4	4615.3	4573.5	4533.8	4523.4
10°	4886.8	4928.5	4928.5	4909.7	4870.0	4811.6	4759.4	4696.7	4623.6	4561.0	4523.4
12.5°	4692.5	4765.6	4824.1	4868.0	4907.6	4868.0	4815.7	4765.6	4684.2	4592.3	4523.4
15°	4479.5	4554.7	4627.8	4719.7	4815.7	4855.4	4853.3	4794.9	4721.8	4625.7	4529.6
17.5°	4329.2	4381.4	4421.0	4521.3	4638.2	4740.6	4809.5	4813.7	4742.7	4657.0	4531.7
20°	4216.4	4254.0	4287.4	4343.8	4446.1	4571.4	4698.8	4769.8	4757.3	4663.3	4538.0
22.5°	4114.1	4141.2	4168.4	4210.1	4291.6	4373.0	4521.3	4667.5	4730.1	4652.9	4531.7
25°	4011.7	4041.0	4061.9	4091.1	4155.8	4222.7	4327.1	4508.8	4648.7	4644.5	4519.2
27.5°	3890.6	3930.3	3955.3	3995.0	4038.9	4089.0	4160.0	4331.2	4531.7	4602.7	4485.8
30°	3744.4	3802.9	3840.5	3884.3	3921.9	3965.8	4022.2	4126.6	4375.1	4521.3	4450.3
32.5°	3533.5	3637.9	3721.4	3763.2	3805.0	3842.6	3892.7	3980.4	4183.0	4410.6	4410.6
35°	3383.1	3431.2	3506.3	3627.5	3679.7	3717.3	3763.2	3832.1	3961.6	4279.0	4345.9
37.5°	3266.2	3285.0	3322.6	3441.6	3539.8	3600.3	3646.3	3690.1	3817.5	4099.4	4262.3
40°	3178.5	3172.2	3168.0	3224.4	3364.3	3460.4	3512.6	3556.5	3654.6	3884.3	4151.6
42.5°	3076.1	3069.9	3049.0	3063.6	3132.5	3293.3	3372.7	3420.7	3502.2	3658.8	4030.5
45°	2969.6	2959.2	2950.8	2936.2	2961.3	3051.1	3214.0	3285.0	3330.9	3470.8	3878.1
47.5°	2861.0	2846.4	2836.0	2823.5	2808.8	2850.6	3005.1	3132.5	3211.9	3299.6	3694.3
50°	2706.5	2725.3	2712.8	2698.2	2685.6	2677.3	2742.0	2950.8	3049.0	3120.0	3470.8
52.5°	1276.0	2481.0	2585.4	2570.8	2554.1	2539.4	2554.1	2712.8	2890.3	2946.7	3201.4
55°	726.7	1104.7	2299.3	2430.8	2416.2	2395.3	2382.8	2437.1	2702.3	2777.5	2955.0
57.5°	699.6	701.7	1014.9	2190.7	2272.1	2253.3	2238.7	2251.2	2476.8	2604.2	2739.9
60°	676.6	676.6	676.6	969.0	2094.6	2100.9	2082.1	2061.2	2159.4	2410.0	2522.7
62.5°	626.5	639.0	645.3	645.3	956.5	1940.1	1921.3	1915.0	1919.2	2176.1	2305.5
65°	561.8	591.0	603.5	611.9	611.9	1004.5	1756.3	1745.9	1731.2	1829.4	2086.3
67.5°	490.8	520.0	547.1	563.9	565.9	584.7	1048.4	1572.5	1551.6	1553.7	1852.4
70°	417.7	442.7	472.0	497.0	520.0	530.4	547.1	1305.2	1374.1	1344.9	1587.1
72.5°	361.3	371.7	392.6	417.7	444.8	469.9	484.5	520.0	1192.5	1161.1	1207.1
75°	300.7	309.1	323.7	340.4	361.3	390.5	415.6	440.6	632.8	973.2	966.9
77.5°	233.9	248.5	265.2	275.7	286.1	307.0	340.4	365.5	390.5	657.8	774.8
80°	179.6	190.0	198.4	208.8	221.4	236.0	248.5	277.8	307.0	330.0	593.1
82.5°	133.7	139.9	146.2	150.4	154.5	162.9	185.9	196.3	215.1	236.0	279.8
85°	94.0	98.2	102.3	104.4	106.5	108.6	116.9	119.0	137.8	142.0	169.2
87.5°	60.6	62.7	66.8	68.9	68.9	71.0	73.1	73.1	73.1	68.9	83.5
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-LD5-120SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	4556.8	4556.8
2.5°	4558.9	4592.3
5°	4552.6	4596.5
7.5°	4535.9	4577.7
10°	4510.8	4561.0
12.5°	4483.7	4531.7
15°	4460.7	4496.2
17.5°	4435.7	4456.5
20°	4402.3	4419.0
22.5°	4368.8	4360.5
25°	4331.2	4312.5
27.5°	4283.2	4247.7
30°	4239.4	4176.7
32.5°	4197.6	4095.3
35°	4141.2	4011.7
37.5°	4082.7	3926.1
40°	4013.8	3828.0
42.5°	3940.7	3729.8
45°	3848.8	3635.8
47.5°	3767.4	3523.1
50°	3654.6	3401.9
52.5°	3516.8	3289.2
55°	3353.9	3151.3
57.5°	3178.5	3007.2
60°	2990.5	2842.3
62.5°	2762.9	2671.0
65°	2495.6	2474.7
67.5°	2146.8	2257.5
70°	1760.5	2009.0
72.5°	1472.3	1745.9
75°	1207.1	1451.4
77.5°	956.5	1138.2
80°	597.3	833.3
82.5°	401.0	547.1
85°	242.2	261.0
87.5°	94.0	96.1
90°	0.0	0.0

(END OF REPORT)