

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-LD5-93SL-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-LD5-93SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

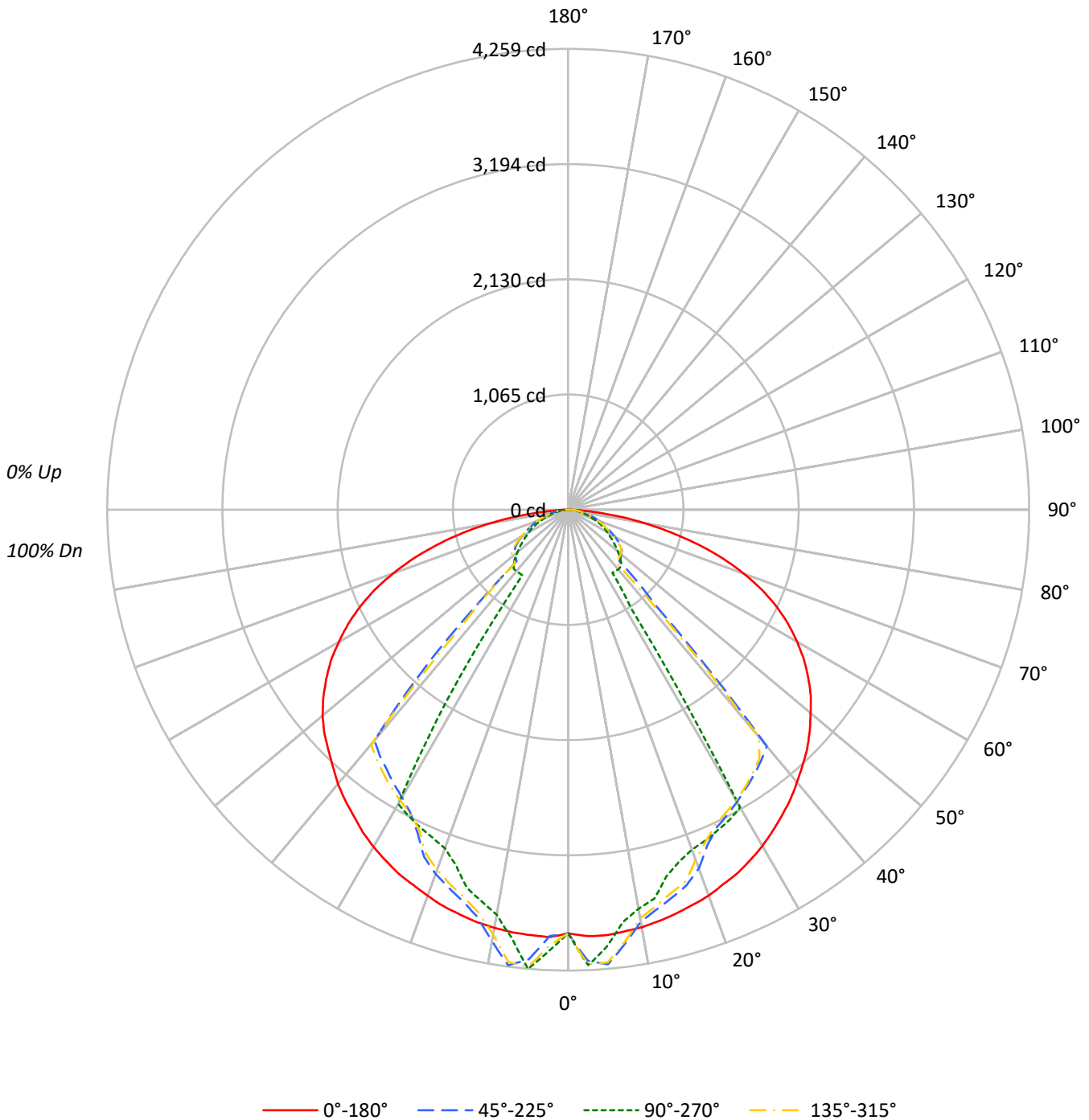
Lumens per Lamp: N/A
Luminaire Lumens: 7839.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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°	15817	15817	15817	15817
5°	15994	15936	15987	16725
10°	16032	14408	16054	14629
15°	16090	13330	16127	13753
20°	16231	12644	16231	12596
25°	16397	12402	16421	12286
30°	16591	12183	16632	12039
35°	16816	2775	16850	2894
40°	17121	2886	17223	2979
45°	17573	2870	17634	2974
50°	18035	2595	18279	2665
55°	18654	2304	18803	2337
60°	19211	2047	19254	2073
65°	19666	1787	19617	1758
70°	19550	1440	19489	1388
75°	18393	1108	18524	1062
80°	15300	787	15913	721
85°	8823	471	9314	362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	4.9
10°-20°	1059.0	13.5
20°-30°	1568.6	20.0
30°-40°	1580.4	20.2
40°-50°	1234.6	15.7
50°-60°	953.6	12.2
60°-70°	640.2	8.2
70°-80°	326.6	4.2
80°-90°	90.9	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°	3012.7	38.4
0°-40°	4593.1	58.6
0°-60°	6781.3	86.5
0°-90°	7839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7839.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3915	3915	3915	3915	3915	
5°	3949	4058	3947	4259	3949	376
15°	3863	3507	3872	3619	3863	1092
25°	3705	3269	3710	3238	3705	1709
35°	3446	710	3454	741	3446	2160
45°	3123	691	3134	716	3123	2409
55°	2707	502	2729	510	2707	2418
65°	2126	337	2121	332	2126	2091
75°	1247	170	1256	163	1247	1304
85°	224	54	237	41	224	309
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	3945.1	3959.4	3970.2	3977.4	3981.0	3981.0	3982.8	3984.6	4007.9	4018.6	4025.8
5°	3948.7	3963.0	3984.6	4013.3	4038.4	4059.9	4077.9	4103.0	4128.1	4155.0	4164.0
7.5°	3932.5	3950.5	3993.5	4045.6	4094.0	4128.1	4151.4	4167.6	4180.1	4181.9	4190.9
10°	3918.2	3950.5	4009.7	4077.9	4138.8	4180.1	4180.1	4171.1	4183.7	4135.3	4086.8
12.5°	3893.1	3928.9	4009.7	4099.4	4156.8	4172.9	4165.8	4129.9	4056.3	3997.1	3970.2
15°	3862.6	3911.0	4011.5	4111.9	4160.4	4165.8	4097.6	4006.1	3950.5	3914.6	3869.7
17.5°	3828.5	3893.1	4013.3	4113.7	4131.7	4106.6	3977.4	3920.0	3862.6	3778.2	3717.3
20°	3796.2	3859.0	3998.9	4088.6	4099.4	3986.4	3885.9	3824.9	3728.0	3654.5	3627.5
22.5°	3746.0	3819.5	3986.4	4054.5	4013.3	3882.3	3785.4	3688.5	3600.6	3579.1	3546.8
25°	3704.7	3781.8	3957.7	4013.3	3903.8	3787.2	3674.2	3561.2	3519.9	3489.4	3460.7
27.5°	3649.1	3744.2	3920.0	3937.9	3787.2	3685.0	3519.9	3469.7	3432.0	3397.9	3385.4
30°	3588.1	3704.7	3867.9	3833.9	3690.3	3539.6	3417.6	3371.0	3344.1	3308.2	3293.9
32.5°	3518.1	3645.5	3810.5	3713.7	3586.3	3397.9	3319.0	3283.1	3247.2	3220.3	3130.6
35°	3446.4	3593.5	3742.4	3598.8	3460.7	3290.3	3220.3	3188.0	3153.9	3055.2	2962.0
37.5°	3372.8	3536.1	3659.8	3475.1	3293.9	3179.0	3119.8	3084.0	3006.8	2881.2	2834.6
40°	3288.5	3466.1	3554.0	3347.7	3148.5	3066.0	3010.4	2974.5	2800.5	2744.9	2730.5
42.5°	3204.2	3397.9	3424.8	3223.9	3028.3	2945.8	2899.2	2780.8	2662.4	2633.7	2639.0
45°	3123.4	3324.4	3283.1	3048.1	2902.8	2834.6	2755.6	2592.4	2529.6	2543.9	2547.5
47.5°	3026.5	3236.4	3134.2	2872.3	2773.6	2705.4	2529.6	2430.9	2422.0	2441.7	2452.5
50°	2922.5	3137.8	2976.3	2712.6	2633.7	2552.9	2353.8	2303.5	2314.3	2334.0	2346.6
52.5°	2825.6	3026.5	2813.1	2563.7	2495.5	2310.7	2176.2	2185.1	2203.1	2226.4	2233.6
55°	2707.2	2892.0	2639.0	2413.0	2348.4	2106.2	2045.2	2066.7	2084.7	2104.4	2118.8
57.5°	2583.4	2737.7	2432.7	2244.3	2140.3	1925.0	1930.4	1944.7	1957.3	1980.6	818.1
60°	2441.7	2561.9	2206.7	2088.3	1881.9	1781.5	1786.9	1812.0	1824.5	1019.0	563.3
62.5°	2294.6	2357.4	2002.1	1910.7	1645.1	1638.0	1663.1	1673.8	1139.2	538.2	527.4
65°	2125.9	2113.4	1801.2	1655.9	1483.7	1490.8	1517.8	1463.9	504.1	504.1	500.5
67.5°	1939.4	1864.0	1605.7	1370.6	1327.6	1343.7	1372.4	479.0	466.5	470.0	457.5
70°	1725.9	1620.0	1402.9	1160.7	1175.1	1191.2	462.9	434.2	428.8	419.8	394.7
72.5°	1499.8	1354.5	1148.2	1008.3	1017.2	638.7	405.5	391.1	373.2	355.2	328.3
75°	1246.9	1058.5	843.2	843.2	855.8	364.2	353.4	330.1	310.4	287.0	270.9
77.5°	977.8	814.5	654.8	679.9	331.9	305.0	285.3	260.1	244.0	229.6	220.7
80°	715.8	568.7	493.4	441.3	258.3	231.4	211.7	197.3	190.2	181.2	170.4
82.5°	470.0	342.7	342.7	208.1	181.2	159.7	154.3	143.5	136.3	131.0	125.6
85°	224.3	199.1	150.7	127.4	113.0	102.3	98.7	93.3	93.3	91.5	89.7
87.5°	82.5	89.7	66.4	64.6	61.0	59.2	61.0	61.0	62.8	61.0	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4043.8	4058.1	4068.9	4086.8	4110.1	4129.9	4147.8	4172.9	4212.4	4223.2	4232.1
5°	4164.0	4169.3	4181.9	4196.3	4199.8	4208.8	4207.0	4217.8	4223.2	4235.7	4208.8
7.5°	4171.1	4142.4	4108.4	4077.9	4056.3	4036.6	4024.0	4043.8	4054.5	4063.5	4036.6
10°	4020.4	3986.4	3966.6	3948.7	3927.2	3896.7	3855.4	3864.4	3860.8	3860.8	3851.8
12.5°	3925.4	3876.9	3826.7	3781.8	3762.1	3760.3	3762.1	3781.8	3781.8	3780.0	3769.3
15°	3776.5	3729.8	3704.7	3693.9	3693.9	3688.5	3688.5	3710.1	3704.7	3704.7	3699.3
17.5°	3677.8	3645.5	3627.5	3615.0	3609.6	3618.6	3629.3	3638.3	3640.1	3632.9	3604.2
20°	3597.0	3566.6	3545.0	3548.6	3546.8	3552.2	3557.6	3527.1	3489.4	3439.2	3415.9
22.5°	3512.7	3489.4	3473.3	3473.3	3451.7	3417.6	3367.4	3356.6	3351.3	3327.9	3308.2
25°	3432.0	3405.1	3381.8	3310.0	3265.2	3270.5	3261.6	3243.6	3241.8	3240.0	3247.2
27.5°	3351.3	3281.3	3191.6	3180.8	3162.9	3161.1	3171.9	3180.8	3180.8	3188.0	3197.0
30°	3184.4	3103.7	3087.5	3067.8	3075.0	3100.1	3105.5	3118.0	3121.6	3134.2	3141.4
32.5°	3031.9	2996.0	2981.7	2990.7	3014.0	3035.5	3048.1	3053.5	3062.4	3073.2	3082.2
35°	2908.1	2897.4	2909.9	2929.7	2953.0	2970.9	2981.7	2992.5	3001.4	3010.4	3017.6
37.5°	2816.6	2823.8	2841.8	2866.9	2890.2	2904.6	2913.5	2926.1	2938.6	2949.4	2906.3
40°	2730.5	2748.5	2768.2	2795.1	2814.8	2829.2	2838.2	2854.3	2746.7	1243.3	681.7
42.5°	2655.2	2674.9	2689.3	2710.8	2732.3	2743.1	2664.1	1189.4	672.8	669.2	678.1
45°	2563.7	2579.8	2603.2	2619.3	2639.0	1733.0	662.0	669.2	658.4	665.6	669.2
47.5°	2470.4	2495.5	2508.1	2393.2	712.2	658.4	651.2	658.4	651.2	660.2	654.8
50°	2364.5	2395.0	1704.3	644.1	638.7	635.1	642.3	638.7	644.1	651.2	636.9
52.5°	2256.9	1397.6	624.3	620.7	624.3	620.7	633.3	624.3	626.1	618.9	601.0
55°	764.3	604.6	599.2	597.4	608.2	608.2	608.2	593.8	584.9	566.9	554.4
57.5°	584.9	584.9	583.1	584.9	581.3	577.7	561.5	549.0	536.4	511.3	504.1
60°	554.4	554.4	554.4	554.4	538.2	531.0	505.9	495.2	473.6	461.1	453.9
62.5°	529.2	525.7	509.5	504.1	486.2	466.5	452.1	441.3	419.8	412.6	407.2
65°	493.4	480.8	461.1	439.5	430.6	409.0	401.9	385.7	375.0	369.6	366.0
67.5°	434.2	416.2	400.1	385.7	369.6	362.4	353.4	340.9	333.7	330.1	326.5
70°	371.4	358.8	342.7	333.7	322.9	317.5	305.0	301.4	296.0	290.6	285.3
72.5°	310.4	303.2	296.0	283.5	279.9	276.3	263.7	256.5	249.4	242.2	238.6
75°	260.1	254.8	251.2	240.4	235.0	224.3	215.3	209.9	204.5	199.1	195.6
77.5°	213.5	209.9	199.1	192.0	188.4	179.4	175.8	177.6	174.0	166.8	163.3
80°	166.8	163.3	154.3	154.3	150.7	147.1	143.5	139.9	136.3	131.0	127.4
82.5°	127.4	123.8	120.2	116.6	113.0	111.2	109.4	105.8	102.3	98.7	96.9
85°	89.7	87.9	86.1	84.3	82.5	80.7	78.9	75.3	71.8	70.0	68.2
87.5°	61.0	59.2	57.4	55.6	53.8	52.0	50.2	48.4	44.9	43.1	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4232.1	4241.1	4232.1	4212.4	4199.8	4194.5	4205.2	4205.2	4212.4	4221.4	4223.2
5°	4165.8	4144.2	4119.1	4094.0	4081.4	4074.3	4054.5	4058.1	4063.5	4067.1	4070.7
7.5°	4000.7	3972.0	3937.9	3905.6	3893.1	3882.3	3859.0	3859.0	3859.0	3860.8	3871.5
10°	3832.1	3819.5	3805.2	3783.6	3767.5	3762.1	3742.4	3747.7	3744.2	3749.5	3762.1
12.5°	3753.1	3738.8	3726.2	3704.7	3686.8	3679.6	3670.6	3676.0	3674.2	3683.2	3693.9
15°	3681.4	3674.2	3659.8	3643.7	3627.5	3613.2	3580.9	3570.1	3563.0	3554.0	3566.6
17.5°	3563.0	3512.7	3478.6	3453.5	3435.6	3423.0	3414.1	3414.1	3419.4	3424.8	3435.6
20°	3401.5	3387.1	3371.0	3344.1	3326.1	3319.0	3313.6	3313.6	3322.6	3329.7	3349.5
22.5°	3290.3	3288.5	3283.1	3270.5	3261.6	3261.6	3263.4	3266.9	3279.5	3290.3	3310.0
25°	3238.2	3245.4	3241.8	3234.7	3229.3	3231.1	3227.5	3231.1	3243.6	3254.4	3270.5
27.5°	3197.0	3207.7	3204.2	3193.4	3184.4	3188.0	3193.4	3189.8	3200.6	3213.1	3225.7
30°	3141.4	3143.2	3150.3	3137.8	3134.2	3139.6	3141.4	3145.0	3155.7	3164.7	3175.5
32.5°	3078.6	3092.9	3091.1	3078.6	3078.6	3084.0	3085.7	2965.5	2741.3	2361.0	2256.9
35°	3017.6	3033.7	3006.8	2535.0	1754.6	936.5	723.0	697.9	703.3	706.9	710.4
37.5°	2231.8	1058.5	674.6	679.9	685.3	690.7	696.1	701.5	706.9	712.2	714.0
40°	671.0	669.2	674.6	681.7	687.1	690.7	697.9	703.3	708.6	714.0	715.8
42.5°	663.8	667.4	672.8	679.9	687.1	694.3	699.7	706.9	710.4	714.0	715.8
45°	660.2	667.4	674.6	679.9	685.3	688.9	692.5	694.3	692.5	692.5	696.1
47.5°	654.8	662.0	663.8	662.0	663.8	662.0	662.0	662.0	656.6	654.8	654.8
50°	635.1	635.1	631.5	624.3	622.5	620.7	617.1	615.4	608.2	606.4	606.4
52.5°	593.8	592.0	586.7	577.7	574.1	570.5	568.7	566.9	559.7	556.2	557.9
55°	545.4	541.8	536.4	525.7	523.9	520.3	518.5	516.7	509.5	513.1	507.7
57.5°	500.5	493.4	486.2	484.4	477.2	475.4	473.6	471.8	466.5	468.2	464.7
60°	446.7	444.9	441.3	434.2	434.2	432.4	432.4	428.8	425.2	423.4	423.4
62.5°	407.2	401.9	398.3	398.3	392.9	392.9	392.9	389.3	385.7	387.5	385.7
65°	364.2	362.4	360.6	357.0	357.0	355.2	355.2	351.6	346.2	348.0	344.5
67.5°	328.3	324.7	321.1	319.3	312.2	308.6	306.8	305.0	297.8	299.6	296.0
70°	283.5	278.1	274.5	270.9	265.5	261.9	261.9	258.3	253.0	254.8	251.2
72.5°	236.8	233.2	229.6	227.8	222.5	220.7	218.9	217.1	211.7	213.5	211.7
75°	197.3	197.3	195.6	193.8	188.4	183.0	179.4	177.6	174.0	175.8	172.2
77.5°	163.3	159.7	156.1	156.1	150.7	147.1	143.5	143.5	143.5	141.7	139.9
80°	127.4	123.8	123.8	122.0	118.4	114.8	113.0	113.0	111.2	111.2	109.4
82.5°	96.9	93.3	91.5	91.5	87.9	86.1	84.3	82.5	82.5	82.5	80.7
85°	68.2	64.6	62.8	62.8	59.2	57.4	57.4	55.6	55.6	53.8	53.8
87.5°	41.3	39.5	37.7	37.7	34.1	32.3	32.3	32.3	30.5	30.5	28.7
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4223.2	4223.2	4210.6	4214.2	4208.8	4216.0	4207.0	4207.0	4217.8	4217.8	4225.0
5°	4072.5	4063.5	4061.7	4058.1	4040.2	4047.4	4038.4	4029.4	4042.0	4042.0	4058.1
7.5°	3866.2	3850.0	3857.2	3846.4	3835.7	3819.5	3824.9	3817.7	3826.7	3839.2	3855.4
10°	3760.3	3746.0	3754.9	3744.2	3749.5	3726.2	3728.0	3729.8	3738.8	3742.4	3756.7
12.5°	3692.1	3688.5	3685.0	3681.4	3685.0	3672.4	3665.2	3667.0	3670.6	3672.4	3683.2
15°	3548.6	3525.3	3532.5	3507.3	3509.1	3510.9	3496.6	3510.9	3509.1	3532.5	3554.0
17.5°	3432.0	3432.0	3419.4	3408.7	3401.5	3399.7	3388.9	3396.1	3388.9	3403.3	3408.7
20°	3351.3	3349.5	3347.7	3342.3	3324.4	3326.1	3331.5	3315.4	3313.6	3311.8	3322.6
22.5°	3313.6	3315.4	3308.2	3308.2	3292.1	3295.7	3297.4	3279.5	3281.3	3275.9	3281.3
25°	3274.1	3277.7	3268.7	3268.7	3265.2	3263.4	3254.4	3258.0	3247.2	3238.2	3247.2
27.5°	3227.5	3234.7	3227.5	3231.1	3223.9	3220.3	3214.9	3211.3	3200.6	3198.8	3204.2
30°	3184.4	3188.0	3186.2	3177.2	3175.5	3164.7	3170.1	3159.3	3148.5	3150.3	3153.9
32.5°	1632.6	1559.0	1202.0	1085.4	1074.6	1114.1	1320.4	1607.5	2082.9	2543.9	2875.8
35°	712.2	712.2	712.2	710.4	710.4	708.6	706.9	705.1	703.3	701.5	699.7
37.5°	715.8	715.8	715.8	715.8	714.0	712.2	712.2	708.6	706.9	705.1	703.3
40°	717.6	719.4	719.4	719.4	717.6	717.6	715.8	712.2	710.4	706.9	703.3
42.5°	715.8	717.6	717.6	715.8	715.8	714.0	714.0	712.2	710.4	708.6	706.9
45°	692.5	694.3	690.7	690.7	688.9	688.9	688.9	688.9	688.9	690.7	690.7
47.5°	651.2	651.2	649.4	647.6	647.6	645.9	647.6	645.9	649.4	651.2	654.8
50°	602.8	602.8	599.2	597.4	597.4	597.4	597.4	599.2	601.0	604.6	608.2
52.5°	552.6	552.6	550.8	549.0	547.2	547.2	552.6	550.8	552.6	554.4	559.7
55°	504.1	505.9	502.3	502.3	500.5	500.5	500.5	502.3	504.1	505.9	511.3
57.5°	462.9	462.9	459.3	459.3	459.3	457.5	462.9	459.3	461.1	462.9	466.5
60°	421.6	419.8	419.8	418.0	418.0	418.0	421.6	419.8	419.8	421.6	425.2
62.5°	383.9	383.9	382.1	382.1	380.3	380.3	383.9	382.1	382.1	383.9	385.7
65°	340.9	340.9	339.1	337.3	342.7	337.3	342.7	339.1	342.7	344.5	348.0
67.5°	292.4	292.4	292.4	290.6	290.6	294.2	296.0	292.4	294.2	297.8	299.6
70°	249.4	249.4	247.6	247.6	247.6	251.2	253.0	249.4	251.2	253.0	256.5
72.5°	211.7	208.1	208.1	206.3	209.9	209.9	211.7	209.9	211.7	211.7	215.3
75°	174.0	170.4	170.4	170.4	174.0	172.2	174.0	172.2	174.0	174.0	175.8
77.5°	139.9	138.1	136.3	136.3	139.9	139.9	139.9	138.1	139.9	141.7	143.5
80°	109.4	107.6	105.8	105.8	109.4	109.4	109.4	111.2	109.4	111.2	113.0
82.5°	80.7	78.9	77.1	80.7	80.7	80.7	80.7	82.5	80.7	82.5	84.3
85°	53.8	52.0	50.2	53.8	53.8	53.8	53.8	55.6	53.8	55.6	57.4
87.5°	28.7	26.9	26.9	28.7	28.7	28.7	30.5	30.5	30.5	32.3	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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4235.7	4241.1	4239.3	4228.6	4217.8	4205.2	4196.3	4198.1	4216.0	4221.4	4205.2
5°	4058.1	4092.2	4092.2	4115.5	4103.0	4092.2	4099.4	4138.8	4158.6	4189.1	4199.8
7.5°	3875.1	3891.3	3889.5	3912.8	3909.2	3909.2	3914.6	3966.6	3991.7	4016.9	4024.0
10°	3772.9	3789.0	3787.2	3789.0	3783.6	3771.1	3771.1	3794.4	3815.9	3828.5	3832.1
12.5°	3699.3	3708.3	3706.5	3706.5	3702.9	3692.1	3690.3	3710.1	3733.4	3749.5	3751.3
15°	3589.9	3615.0	3620.4	3643.7	3638.3	3624.0	3627.5	3643.7	3658.0	3672.4	3667.0
17.5°	3426.6	3439.2	3441.0	3449.9	3446.4	3446.4	3467.9	3527.1	3566.6	3600.6	3604.2
20°	3333.3	3342.3	3338.7	3358.4	3349.5	3347.7	3353.1	3378.2	3396.1	3412.3	3441.0
22.5°	3288.5	3295.7	3290.3	3292.1	3275.9	3261.6	3258.0	3277.7	3297.4	3319.0	3319.0
25°	3250.8	3256.2	3254.4	3250.8	3238.2	3218.5	3214.9	3218.5	3225.7	3227.5	3214.9
27.5°	3205.9	3209.5	3209.5	3211.3	3195.2	3177.2	3173.7	3170.1	3177.2	3175.5	3155.7
30°	3159.3	3153.9	3155.7	3157.5	3143.2	3127.0	3119.8	3118.0	3125.2	3123.4	3103.7
32.5°	3048.1	3089.3	3092.9	3096.5	3084.0	3069.6	3062.4	3057.0	3060.6	3058.8	3040.9
35°	697.9	710.4	870.1	1969.9	2674.9	2962.0	2992.5	2985.3	2987.1	2987.1	2972.7
37.5°	699.7	697.9	696.1	690.7	685.3	681.7	1178.7	2513.4	2911.7	2913.5	2901.0
40°	699.7	697.9	696.1	692.5	685.3	679.9	671.0	663.8	679.9	1496.2	2737.7
42.5°	703.3	699.7	696.1	692.5	685.3	678.1	671.0	662.0	667.4	663.8	654.8
45°	692.5	690.7	690.7	688.9	685.3	678.1	669.2	658.4	653.0	658.4	649.4
47.5°	658.4	660.2	665.6	667.4	667.4	669.2	663.8	656.6	647.6	653.0	642.3
50°	611.8	615.4	617.1	626.1	629.7	636.9	638.7	638.7	636.9	644.1	636.9
52.5°	561.5	565.1	574.1	577.7	581.3	592.0	595.6	601.0	604.6	615.4	622.5
55°	513.1	514.9	518.5	525.7	531.0	540.0	545.4	550.8	559.7	565.1	586.7
57.5°	468.2	470.0	477.2	479.0	482.6	489.8	495.2	502.3	509.5	513.1	538.2
60°	425.2	427.0	432.4	434.2	436.0	443.1	448.5	453.9	459.3	462.9	480.8
62.5°	387.5	387.5	392.9	392.9	394.7	400.1	403.7	407.2	412.6	414.4	423.4
65°	349.8	351.6	355.2	355.2	357.0	360.6	362.4	364.2	369.6	369.6	376.7
67.5°	303.2	305.0	310.4	314.0	315.8	322.9	324.7	326.5	330.1	331.9	335.5
70°	258.3	260.1	265.5	267.3	269.1	274.5	278.1	283.5	288.8	294.2	297.8
72.5°	217.1	218.9	224.3	224.3	229.6	231.4	235.0	236.8	242.2	245.8	251.2
75°	177.6	179.4	184.8	184.8	190.2	192.0	193.8	195.6	199.1	202.7	206.3
77.5°	145.3	145.3	152.5	156.1	159.7	159.7	161.5	161.5	161.5	163.3	166.8
80°	114.8	114.8	120.2	123.8	127.4	127.4	129.2	131.0	132.8	132.8	134.6
82.5°	86.1	86.1	91.5	93.3	96.9	96.9	96.9	98.7	100.5	98.7	102.3
85°	59.2	59.2	62.8	64.6	68.2	68.2	68.2	70.0	71.8	70.0	71.8
87.5°	34.1	35.9	37.7	39.5	41.3	43.1	43.1	43.1	44.9	44.9	46.6
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4187.3	4165.8	4164.0	4138.8	4131.7	4133.5	4113.7	4106.6	4074.3	4067.1	4033.0
5°	4203.4	4214.2	4208.8	4207.0	4212.4	4208.8	4194.5	4187.3	4181.9	4167.6	4138.8
7.5°	4025.8	4033.0	4038.4	4061.7	4081.4	4115.5	4151.4	4174.7	4192.7	4196.3	4172.9
10°	3844.6	3878.7	3902.0	3937.9	3966.6	3986.4	4007.9	4027.6	4079.6	4131.7	4162.2
12.5°	3751.3	3760.3	3758.5	3778.2	3798.0	3850.0	3900.2	3928.9	3968.4	3991.7	4047.4
15°	3672.4	3674.2	3679.6	3693.9	3704.7	3722.6	3746.0	3789.0	3867.9	3903.8	3934.3
17.5°	3600.6	3600.6	3604.2	3616.8	3631.1	3647.3	3661.6	3679.6	3719.0	3778.2	3853.6
20°	3485.8	3536.1	3541.4	3539.6	3546.8	3577.3	3580.9	3613.2	3632.9	3656.3	3729.8
22.5°	3315.4	3345.9	3388.9	3455.3	3480.4	3494.8	3505.6	3519.9	3550.4	3577.3	3607.8
25°	3222.1	3241.8	3254.4	3274.1	3326.1	3410.5	3426.6	3442.8	3462.5	3482.2	3519.9
27.5°	3139.6	3137.8	3146.7	3164.7	3179.0	3223.9	3302.8	3365.6	3369.2	3397.9	3430.2
30°	3080.4	3069.6	3057.0	3053.5	3073.2	3096.5	3119.8	3218.5	3286.7	3301.0	3335.1
32.5°	3024.8	3006.8	2988.9	2974.5	2962.0	2981.7	2996.0	3039.1	3127.0	3209.5	3227.5
35°	2956.6	2938.6	2917.1	2901.0	2881.2	2879.4	2877.6	2918.9	2947.6	3046.3	3132.4
37.5°	2886.6	2866.9	2848.9	2831.0	2811.3	2796.9	2787.9	2798.7	2825.6	2868.7	3012.2
40°	2813.1	2789.7	2771.8	2757.4	2730.5	2719.8	2701.8	2694.6	2696.4	2734.1	2809.5
42.5°	1681.0	2680.3	2689.3	2673.1	2649.8	2635.4	2615.7	2606.7	2588.8	2606.7	2649.8
45°	647.6	654.8	1960.9	2590.6	2561.9	2543.9	2526.0	2517.0	2497.3	2483.0	2522.4
47.5°	635.1	642.3	627.9	889.8	2445.3	2450.7	2429.1	2420.2	2400.4	2389.7	2378.9
50°	626.1	631.5	620.7	624.3	611.8	2240.8	2330.5	2319.7	2298.2	2285.6	2264.1
52.5°	617.1	617.1	610.0	601.0	597.4	599.2	1885.5	2217.4	2192.3	2179.8	2151.1
55°	588.4	592.0	599.2	584.9	581.3	579.5	574.1	1795.8	2075.7	2061.4	2036.2
57.5°	545.4	552.6	572.3	568.7	568.7	554.4	550.8	550.8	1666.7	1941.2	1916.0
60°	495.2	502.3	523.9	531.0	536.4	532.8	529.2	527.4	520.3	1756.4	1788.7
62.5°	443.1	450.3	457.5	480.8	488.0	496.9	507.7	502.3	495.2	495.2	1654.1
65°	387.5	398.3	401.9	423.4	432.4	448.5	457.5	470.0	466.5	464.7	473.6
67.5°	339.1	351.6	353.4	362.4	378.5	385.7	396.5	419.8	430.6	434.2	437.7
70°	297.8	305.0	310.4	314.0	324.7	326.5	346.2	362.4	378.5	396.5	401.9
72.5°	256.5	261.9	272.7	269.1	272.7	279.9	290.6	301.4	317.5	342.7	358.8
75°	209.9	213.5	220.7	224.3	231.4	236.8	244.0	253.0	267.3	279.9	301.4
77.5°	168.6	170.4	175.8	177.6	184.8	190.2	202.7	208.1	217.1	226.0	238.6
80°	136.3	136.3	138.1	138.1	143.5	148.9	157.9	163.3	174.0	181.2	181.2
82.5°	104.1	104.1	109.4	109.4	113.0	113.0	118.4	118.4	123.8	127.4	131.0
85°	73.6	75.3	78.9	77.1	80.7	78.9	82.5	86.1	87.9	86.1	84.3
87.5°	48.4	48.4	52.0	50.2	52.0	52.0	55.6	55.6	57.4	57.4	55.6
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4020.4	3993.5	3977.4	3957.7	3952.3	3946.9	3954.1	3954.1	3943.3	3934.3	3918.2
5°	4113.7	4085.0	4054.5	4022.2	3991.7	3959.4	3946.9	3945.1	3925.4	3914.6	3909.2
7.5°	4162.2	4147.8	4113.7	4068.9	4022.2	3964.8	3939.7	3925.4	3905.6	3902.0	3902.0
10°	4167.6	4151.4	4133.5	4101.2	4047.4	3972.0	3923.6	3894.9	3876.9	3889.5	3912.8
12.5°	4115.5	4146.0	4129.9	4108.4	4065.3	3973.8	3903.8	3860.8	3855.4	3887.7	3948.7
15°	3982.8	4072.5	4117.3	4095.8	4061.7	3970.2	3871.5	3821.3	3821.3	3887.7	3966.6
17.5°	3882.3	3952.3	4061.7	4079.6	4040.2	3963.0	3841.0	3781.8	3798.0	3894.9	3979.2
20°	3799.8	3842.8	3948.7	4049.1	4011.5	3946.9	3796.2	3735.2	3767.5	3884.1	3997.1
22.5°	3670.6	3756.7	3821.3	3970.2	3982.8	3916.4	3751.3	3677.8	3742.4	3884.1	3988.2
25°	3545.0	3649.1	3717.3	3862.6	3939.7	3878.7	3710.1	3616.8	3715.5	3878.7	3981.0
27.5°	3457.1	3505.6	3629.3	3733.4	3875.1	3828.5	3654.5	3550.4	3681.4	3850.0	3939.7
30°	3363.8	3396.1	3518.1	3616.8	3789.0	3771.1	3597.0	3476.8	3638.3	3823.1	3832.1
32.5°	3261.6	3297.4	3360.2	3503.8	3668.8	3717.3	3532.5	3403.3	3591.7	3781.8	3706.5
35°	3157.5	3184.4	3234.7	3388.9	3528.9	3636.5	3453.5	3319.0	3559.4	3719.0	3586.3
37.5°	3053.5	3082.2	3125.2	3254.4	3381.8	3561.2	3385.4	3234.7	3500.2	3607.8	3460.7
40°	2954.8	2970.9	3015.8	3096.5	3259.8	3484.0	3308.2	3146.7	3439.2	3466.1	3290.3
42.5°	2773.6	2854.3	2895.6	2960.2	3121.6	3378.2	3218.5	3053.5	3371.0	3324.4	3119.8
45°	2578.0	2753.9	2771.8	2836.4	2999.6	3265.2	3134.2	2962.0	3306.4	3202.4	2958.4
47.5°	2418.4	2545.7	2649.8	2703.6	2854.3	3132.4	3055.2	2884.8	3209.5	3048.1	2800.5
50°	2276.6	2344.8	2533.2	2572.7	2680.3	2972.7	2962.0	2795.1	3075.0	2854.3	2646.2
52.5°	2138.5	2186.9	2357.4	2441.7	2529.6	2800.5	2850.7	2707.2	2927.9	2660.6	2490.1
55°	2018.3	2034.4	2127.7	2305.3	2384.3	2626.5	2728.7	2604.9	2741.3	2475.8	2339.4
57.5°	1894.5	1880.2	1948.3	2176.2	2233.6	2448.9	2599.6	2500.9	2590.6	2287.4	2183.3
60°	1765.3	1745.6	1774.3	1925.0	2073.9	2273.0	2447.1	2386.1	2407.6	2100.8	2009.3
62.5°	1630.8	1611.0	1602.1	1697.2	1917.8	2091.9	2292.8	2258.7	2183.3	1930.4	1794.0
65°	1490.8	1471.1	1456.8	1494.4	1745.6	1856.8	2120.6	2111.6	1937.6	1751.0	1510.6
67.5°	453.9	1338.4	1307.9	1306.1	1471.1	1643.3	1934.0	1919.6	1690.0	1559.0	1300.7
70°	409.0	1085.4	1153.6	1137.4	1209.2	1426.3	1720.5	1709.7	1449.6	1250.4	1150.0
72.5°	375.0	383.9	1019.0	1001.1	1017.2	1212.8	1498.0	1469.3	1228.9	986.7	993.9
75°	321.1	337.3	351.6	845.0	823.5	1004.7	1255.8	1211.0	1013.6	814.5	830.6
77.5°	261.9	281.7	292.4	615.4	665.6	715.8	1002.9	943.7	697.9	651.2	310.4
80°	195.6	211.7	229.6	245.8	505.9	500.5	744.5	685.3	486.2	405.5	242.2
82.5°	143.5	148.9	159.7	177.6	200.9	335.5	479.0	421.6	337.3	184.8	166.8
85°	89.7	96.9	102.3	107.6	122.0	200.9	236.8	188.4	141.7	113.0	105.8
87.5°	57.4	57.4	55.6	57.4	59.2	71.8	80.7	77.1	61.0	57.4	57.4
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	3900.2	3875.1	3875.1	3867.9	3873.3	3873.3	3871.5	3873.3	3885.9	3893.1	3905.6
5°	3898.4	3891.3	3907.4	3927.2	3950.5	3979.2	3986.4	4011.5	4034.8	4065.3	4097.6
7.5°	3921.8	3946.9	3977.4	4009.7	4056.3	4090.4	4120.9	4151.4	4172.9	4201.6	4219.6
10°	3955.9	4006.1	4058.1	4099.4	4149.6	4178.3	4198.1	4201.6	4171.1	4122.7	4083.2
12.5°	4004.3	4063.5	4111.9	4151.4	4174.7	4164.0	4106.6	4047.4	4013.3	3963.0	3893.1
15°	4045.6	4099.4	4149.6	4133.5	4070.7	4011.5	3966.6	3896.7	3828.5	3781.8	3751.3
17.5°	4063.5	4115.5	4097.6	4013.3	3954.1	3885.9	3794.4	3740.6	3695.7	3659.8	3641.9
20°	4074.3	4065.3	3968.4	3907.4	3792.6	3729.8	3670.6	3620.4	3586.3	3568.3	3564.8
22.5°	4045.6	3936.1	3853.6	3744.2	3659.8	3607.8	3561.2	3519.9	3496.6	3482.2	3473.3
25°	3950.5	3823.1	3701.1	3615.0	3543.2	3498.4	3462.5	3428.4	3399.7	3392.5	3374.6
27.5°	3817.7	3713.7	3552.2	3485.8	3423.0	3401.5	3362.0	3327.9	3302.8	3281.3	3223.9
30°	3708.3	3543.2	3426.6	3365.6	3327.9	3302.8	3258.0	3222.1	3179.0	3100.1	3067.8
32.5°	3573.7	3410.5	3299.2	3265.2	3218.5	3197.0	3146.7	3067.8	3001.4	2969.1	2967.3
35°	3399.7	3265.2	3184.4	3153.9	3116.2	3080.4	2976.3	2904.6	2872.3	2875.8	2902.8
37.5°	3254.4	3134.2	3082.2	3039.1	2996.0	2904.6	2816.6	2782.6	2791.5	2809.5	2822.0
40°	3107.3	3015.8	2956.6	2922.5	2825.6	2735.9	2689.3	2701.8	2718.0	2730.5	2746.7
42.5°	2963.8	2899.2	2840.0	2773.6	2640.8	2592.4	2603.2	2619.3	2633.7	2651.6	2667.7
45°	2827.4	2770.0	2701.8	2551.1	2484.7	2497.3	2513.4	2526.0	2547.5	2560.1	2576.2
47.5°	2698.2	2637.2	2517.0	2384.3	2377.1	2402.2	2416.6	2432.7	2448.9	2416.6	1333.0
50°	2552.9	2490.1	2307.1	2256.9	2273.0	2296.4	2314.3	2330.5	2075.7	825.3	635.1
52.5°	2409.4	2249.7	2133.1	2147.5	2163.6	2190.5	2203.1	1636.2	651.2	620.7	622.5
55°	2249.7	2045.2	2011.1	2029.1	2043.4	2070.3	1372.4	601.0	597.4	595.6	610.0
57.5°	1998.6	1874.8	1889.1	1907.1	1921.4	1356.3	584.9	581.3	583.1	584.9	586.7
60°	1774.3	1747.4	1763.5	1779.7	1259.4	565.1	554.4	556.2	563.3	557.9	543.6
62.5°	1596.7	1618.2	1634.4	1431.6	536.4	531.0	536.4	531.0	518.5	509.5	491.6
65°	1460.3	1481.9	1494.4	504.1	502.3	509.5	504.1	486.2	466.5	441.3	436.0
67.5°	1316.8	1338.4	479.0	466.5	473.6	464.7	443.1	421.6	407.2	385.7	376.7
70°	1167.9	500.5	434.2	432.4	419.8	405.5	382.1	360.6	342.7	333.7	324.7
72.5°	843.2	396.5	391.1	376.7	355.2	335.5	315.8	303.2	294.2	288.8	283.5
75°	351.6	344.5	328.3	303.2	281.7	272.7	258.3	249.4	245.8	235.0	231.4
77.5°	294.2	279.9	256.5	238.6	226.0	220.7	209.9	199.1	193.8	192.0	184.8
80°	226.0	206.3	195.6	186.6	183.0	170.4	157.9	152.5	148.9	147.1	141.7
82.5°	154.3	147.1	139.9	127.4	127.4	122.0	116.6	113.0	109.4	109.4	105.8
85°	100.5	95.1	93.3	87.9	87.9	84.3	82.5	80.7	78.9	77.1	75.3
87.5°	57.4	57.4	59.2	57.4	57.4	55.6	53.8	52.0	50.2	50.2	46.6
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	3921.8	3939.7	3943.3	4004.3	4038.4	4036.6	4025.8	4058.1	4038.4	4027.6	4038.4
5°	4129.9	4151.4	4169.3	4235.7	4259.1	4269.8	4268.0	4286.0	4271.6	4259.1	4259.1
7.5°	4232.1	4239.3	4246.5	4230.3	4219.6	4201.6	4174.7	4135.3	4115.5	4094.0	4067.1
10°	4063.5	4040.2	4049.1	4016.9	3989.9	3970.2	3945.1	3912.8	3885.9	3866.2	3835.7
12.5°	3857.2	3855.4	3859.0	3864.4	3837.5	3821.3	3801.6	3778.2	3758.5	3737.0	3711.9
15°	3731.6	3733.4	3747.7	3742.4	3733.4	3724.4	3702.9	3695.7	3677.8	3654.5	3640.1
17.5°	3641.9	3650.9	3665.2	3658.0	3643.7	3634.7	3618.6	3602.4	3586.3	3568.3	3546.8
20°	3563.0	3571.9	3580.9	3571.9	3545.0	3532.5	3510.9	3460.7	3424.8	3388.9	3356.6
22.5°	3476.8	3482.2	3475.1	3446.4	3378.2	3345.9	3320.8	3306.4	3275.9	3256.2	3236.4
25°	3369.2	3338.7	3292.1	3259.8	3232.9	3218.5	3207.7	3205.9	3202.4	3198.8	3189.8
27.5°	3193.4	3182.6	3157.5	3145.0	3146.7	3152.1	3153.9	3159.3	3153.9	3146.7	3139.6
30°	3062.4	3067.8	3069.6	3073.2	3082.2	3087.5	3089.3	3096.5	3092.9	3087.5	3084.0
32.5°	2979.9	2992.5	2999.6	3010.4	3015.8	3024.8	3024.8	3035.5	3024.8	3023.0	3019.4
35°	2911.7	2922.5	2926.1	2942.2	2947.6	2956.6	2956.6	2965.5	2956.6	2865.1	2262.3
37.5°	2843.6	2854.3	2861.5	2875.8	2877.6	2883.0	2660.6	1946.5	1255.8	972.4	742.7
40°	2762.8	2775.4	2782.6	2787.9	1959.1	1243.3	855.8	696.1	696.1	701.5	706.9
42.5°	2676.7	2685.7	1871.2	1089.0	678.1	676.4	681.7	687.1	692.5	699.7	706.9
45°	2104.4	1062.1	674.6	658.4	663.8	671.0	678.1	685.3	694.3	701.5	705.1
47.5°	690.7	647.6	656.6	649.4	658.4	667.4	674.6	681.7	683.5	685.3	683.5
50°	638.7	638.7	644.1	644.1	651.2	654.8	654.8	654.8	647.6	645.9	640.5
52.5°	617.1	631.5	624.3	627.9	624.3	618.9	613.6	608.2	597.4	593.8	586.7
55°	606.4	611.8	593.8	588.4	581.3	566.9	559.7	552.6	543.6	540.0	531.0
57.5°	581.3	568.7	549.0	540.0	527.4	513.1	505.9	500.5	491.6	488.0	482.6
60°	534.6	509.5	496.9	486.2	471.8	459.3	453.9	450.3	443.1	441.3	436.0
62.5°	477.2	455.7	444.9	430.6	419.8	412.6	407.2	405.5	398.3	398.3	394.7
65°	414.4	403.7	394.7	380.3	375.0	367.8	366.0	364.2	360.6	358.8	355.2
67.5°	364.2	357.0	344.5	337.3	333.7	328.3	324.7	321.1	314.0	310.4	305.0
70°	319.3	314.0	301.4	296.0	288.8	279.9	274.5	270.9	265.5	261.9	256.5
72.5°	276.3	260.1	251.2	245.8	240.4	231.4	229.6	226.0	220.7	218.9	213.5
75°	222.5	209.9	204.5	200.9	195.6	190.2	190.2	190.2	184.8	183.0	181.2
77.5°	177.6	170.4	166.8	163.3	161.5	157.9	152.5	150.7	145.3	145.3	143.5
80°	136.3	132.8	129.2	127.4	125.6	122.0	118.4	116.6	111.2	111.2	109.4
82.5°	100.5	98.7	96.9	95.1	93.3	91.5	86.1	84.3	80.7	80.7	78.9
85°	71.8	70.0	66.4	64.6	64.6	62.8	57.4	55.6	52.0	52.0	52.0
87.5°	44.9	43.1	41.3	39.5	37.7	35.9	32.3	30.5	30.5	26.9	25.1
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4016.9	4047.4	4043.8	4065.3	4070.7	4081.4	4085.0	4086.8	4059.9	4081.4	4083.2
5°	4253.7	4259.1	4262.6	4271.6	4280.6	4282.4	4273.4	4262.6	4266.2	4259.1	4241.1
7.5°	4063.5	4036.6	4031.2	4024.0	4020.4	4016.9	4000.7	4015.1	3998.9	3991.7	3966.6
10°	3830.3	3805.2	3803.4	3803.4	3808.7	3807.0	3803.4	3796.2	3810.5	3801.6	3796.2
12.5°	3708.3	3699.3	3704.7	3701.1	3715.5	3719.0	3715.5	3715.5	3711.9	3704.7	3708.3
15°	3634.7	3627.5	3632.9	3627.5	3638.3	3640.1	3631.1	3636.5	3627.5	3618.6	3615.0
17.5°	3537.8	3521.7	3509.1	3491.2	3493.0	3489.4	3478.6	3478.6	3469.7	3446.4	3448.1
20°	3351.3	3335.1	3327.9	3327.9	3336.9	3340.5	3338.7	3342.3	3333.3	3329.7	3315.4
22.5°	3234.7	3232.9	3236.4	3245.4	3259.8	3279.5	3281.3	3281.3	3281.3	3279.5	3261.6
25°	3193.4	3193.4	3197.0	3209.5	3220.3	3234.7	3238.2	3241.8	3238.2	3238.2	3222.1
27.5°	3146.7	3143.2	3150.3	3162.9	3175.5	3186.2	3195.2	3197.0	3191.6	3191.6	3197.0
30°	3089.3	3087.5	3096.5	3109.1	3119.8	3130.6	3139.6	3146.7	3139.6	3139.6	3134.2
32.5°	3030.1	3030.1	3033.7	2958.4	2743.1	2470.4	2475.8	2317.9	2208.5	2070.3	2253.3
35°	1890.9	1376.0	1182.3	1001.1	873.7	791.2	789.4	762.5	749.9	740.9	739.1
37.5°	714.0	717.6	724.8	728.4	733.8	737.4	739.1	739.1	739.1	739.1	737.4
40°	712.2	719.4	724.8	730.2	735.6	739.1	739.1	740.9	742.7	742.7	742.7
42.5°	714.0	721.2	728.4	733.8	737.4	739.1	740.9	742.7	742.7	742.7	742.7
45°	712.2	715.8	715.8	717.6	717.6	717.6	719.4	719.4	717.6	715.8	719.4
47.5°	685.3	685.3	679.9	678.1	676.4	672.8	674.6	672.8	671.0	669.2	672.8
50°	638.7	631.5	627.9	624.3	622.5	618.9	620.7	618.9	617.1	613.6	618.9
52.5°	583.1	581.3	574.1	570.5	568.7	570.5	566.9	565.1	563.3	561.5	563.3
55°	529.2	522.1	520.3	516.7	514.9	516.7	514.9	513.1	511.3	509.5	511.3
57.5°	480.8	475.4	473.6	470.0	470.0	470.0	470.0	468.2	466.5	464.7	466.5
60°	434.2	430.6	428.8	428.8	427.0	427.0	427.0	425.2	423.4	423.4	425.2
62.5°	394.7	394.7	389.3	387.5	387.5	389.3	387.5	385.7	383.9	382.1	385.7
65°	353.4	346.2	344.5	340.9	337.3	339.1	337.3	335.5	333.7	331.9	335.5
67.5°	303.2	301.4	294.2	290.6	288.8	290.6	288.8	287.0	285.3	283.5	287.0
70°	254.8	254.8	247.6	245.8	244.0	244.0	242.2	242.2	240.4	238.6	242.2
72.5°	211.7	211.7	209.9	206.3	204.5	202.7	200.9	199.1	199.1	200.9	200.9
75°	175.8	172.2	165.1	166.8	165.1	163.3	163.3	161.5	159.7	163.3	161.5
77.5°	138.1	136.3	131.0	132.8	131.0	129.2	129.2	127.4	125.6	127.4	127.4
80°	104.1	104.1	102.3	100.5	100.5	98.7	96.9	96.9	95.1	96.9	96.9
82.5°	75.3	75.3	73.6	71.8	70.0	70.0	68.2	68.2	68.2	68.2	68.2
85°	48.4	46.6	46.6	43.1	43.1	43.1	41.3	41.3	41.3	41.3	41.3
87.5°	23.3	23.3	21.5	21.5	19.7	17.9	17.9	16.1	16.1	17.9	17.9
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4050.9	4074.3	4054.5	4063.5	4065.3	4095.8	4094.0	4101.2	4088.6	4074.3	4054.5
5°	4257.3	4246.5	4232.1	4266.2	4248.3	4269.8	4277.0	4291.3	4291.3	4289.5	4273.4
7.5°	3993.5	3970.2	3988.2	4000.7	4006.1	3991.7	4020.4	4052.7	4079.6	4095.8	4097.6
10°	3787.2	3794.4	3792.6	3798.0	3810.5	3808.7	3826.7	3844.6	3851.8	3862.6	3866.2
12.5°	3690.3	3688.5	3692.1	3704.7	3711.9	3710.1	3728.0	3738.8	3742.4	3744.2	3742.4
15°	3613.2	3600.6	3609.6	3611.4	3616.8	3616.8	3638.3	3654.5	3661.6	3665.2	3661.6
17.5°	3467.9	3437.4	3466.1	3466.1	3485.8	3482.2	3516.3	3543.2	3557.6	3568.3	3568.3
20°	3324.4	3310.0	3320.8	3317.2	3331.5	3329.7	3351.3	3369.2	3381.8	3390.7	3401.5
22.5°	3266.9	3270.5	3254.4	3256.2	3256.2	3254.4	3265.2	3274.1	3277.7	3283.1	3279.5
25°	3229.3	3232.9	3227.5	3218.5	3214.9	3218.5	3223.9	3234.7	3236.4	3232.9	3220.3
27.5°	3191.6	3180.8	3189.8	3173.7	3170.1	3177.2	3184.4	3186.2	3188.0	3188.0	3177.2
30°	3134.2	3125.2	3134.2	3127.0	3119.8	3127.0	3132.4	3132.4	3136.0	3137.8	3125.2
32.5°	2190.5	2208.5	2499.1	2674.9	2922.5	3048.1	3071.4	3071.4	3075.0	3075.0	3064.2
35°	746.3	748.1	809.1	877.3	1022.6	1202.0	1437.0	1559.0	1971.6	2465.0	2942.2
37.5°	737.4	735.6	733.8	732.0	730.2	728.4	724.8	723.0	733.8	870.1	1180.5
40°	740.9	739.1	735.6	733.8	732.0	728.4	726.6	723.0	719.4	715.8	712.2
42.5°	740.9	739.1	737.4	735.6	733.8	732.0	728.4	724.8	721.2	715.8	710.4
45°	715.8	715.8	717.6	717.6	719.4	719.4	719.4	717.6	717.6	715.8	708.6
47.5°	669.2	669.2	674.6	674.6	678.1	681.7	681.7	685.3	690.7	694.3	696.1
50°	615.4	615.4	620.7	622.5	626.1	631.5	636.9	638.7	644.1	651.2	658.4
52.5°	561.5	561.5	566.9	566.9	570.5	575.9	581.3	583.1	590.2	597.4	606.4
55°	511.3	511.3	514.9	516.7	518.5	522.1	527.4	527.4	534.6	540.0	549.0
57.5°	466.5	470.0	470.0	470.0	471.8	475.4	479.0	479.0	484.4	489.8	496.9
60°	423.4	427.0	427.0	427.0	428.8	430.6	434.2	434.2	437.7	441.3	448.5
62.5°	383.9	387.5	387.5	389.3	389.3	391.1	394.7	392.9	396.5	398.3	403.7
65°	333.7	337.3	339.1	340.9	342.7	346.2	351.6	349.8	355.2	358.8	364.2
67.5°	285.3	288.8	288.8	290.6	292.4	296.0	299.6	299.6	305.0	308.6	315.8
70°	240.4	244.0	244.0	245.8	247.6	251.2	254.8	253.0	258.3	261.9	267.3
72.5°	199.1	202.7	202.7	204.5	204.5	208.1	211.7	215.3	215.3	218.9	222.5
75°	161.5	163.3	165.1	165.1	166.8	168.6	172.2	175.8	177.6	179.4	183.0
77.5°	127.4	129.2	131.0	131.0	132.8	134.6	136.3	143.5	147.1	148.9	148.9
80°	96.9	98.7	98.7	98.7	100.5	102.3	105.8	105.8	113.0	113.0	114.8
82.5°	68.2	70.0	70.0	70.0	71.8	75.3	77.1	78.9	82.5	84.3	84.3
85°	41.3	43.1	43.1	43.1	44.9	46.6	50.2	52.0	53.8	53.8	55.6
87.5°	16.1	17.9	19.7	19.7	21.5	23.3	25.1	26.9	28.7	28.7	30.5
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	4033.0	4045.6	4033.0	4040.2	4049.1	4033.0	3995.3	3981.0	3975.6	3954.1	3939.7
5°	4257.3	4257.3	4251.9	4266.2	4264.4	4239.3	4199.8	4181.9	4164.0	4140.6	4122.7
7.5°	4097.6	4111.9	4120.9	4176.5	4212.4	4216.0	4241.1	4246.5	4253.7	4246.5	4235.7
10°	3867.9	3862.6	3887.7	3939.7	3970.2	3986.4	4034.8	4058.1	4077.9	4117.3	4158.6
12.5°	3738.8	3746.0	3756.7	3794.4	3823.1	3815.9	3835.7	3851.8	3875.1	3914.6	3973.8
15°	3652.7	3659.8	3670.6	3699.3	3717.3	3708.3	3719.0	3729.8	3746.0	3765.7	3801.6
17.5°	3559.4	3571.9	3584.5	3615.0	3631.1	3629.3	3638.3	3641.9	3647.3	3659.8	3685.0
20°	3414.1	3453.5	3478.6	3519.9	3543.2	3539.6	3555.8	3561.2	3568.3	3580.9	3591.7
22.5°	3281.3	3292.1	3304.6	3349.5	3388.9	3437.4	3448.1	3462.5	3480.4	3493.0	3503.8
25°	3205.9	3198.8	3204.2	3234.7	3256.2	3259.8	3275.9	3322.6	3371.0	3392.5	3417.6
27.5°	3161.1	3153.9	3152.1	3166.5	3170.1	3161.1	3157.5	3171.9	3207.7	3243.6	3319.0
30°	3112.7	3103.7	3096.5	3109.1	3114.5	3101.9	3078.6	3066.0	3087.5	3096.5	3127.0
32.5°	3055.2	3046.3	3042.7	3049.9	3053.5	3042.7	3017.6	3003.2	2999.6	2992.5	2999.6
35°	2990.7	2981.7	2976.3	2978.1	2985.3	2976.3	2954.8	2936.8	2927.9	2908.1	2893.8
37.5°	1541.1	2183.3	2834.6	2902.8	2909.9	2908.1	2886.6	2866.9	2857.9	2834.6	2827.4
40°	705.1	787.6	1182.3	1544.7	2228.2	2831.0	2811.3	2791.5	2775.4	2768.2	2741.3
42.5°	703.3	705.1	706.9	697.9	864.7	1472.9	2174.4	2714.4	2703.6	2685.7	2665.9
45°	703.3	694.3	701.5	690.7	694.3	692.5	862.9	1392.2	2477.6	2588.8	2579.8
47.5°	696.1	690.7	697.9	688.9	678.1	683.5	676.4	685.3	1069.2	1813.8	2484.7
50°	663.8	667.4	679.9	678.1	669.2	676.4	663.8	674.6	665.6	730.2	1406.5
52.5°	615.4	622.5	635.1	645.9	649.4	658.4	654.8	658.4	651.2	653.0	654.8
55°	557.9	566.9	577.7	593.8	601.0	615.4	626.1	631.5	640.5	638.7	624.3
57.5°	504.1	513.1	522.1	538.2	554.4	561.5	581.3	592.0	615.4	610.0	606.4
60°	453.9	461.1	470.0	473.6	493.4	505.9	523.9	534.6	565.1	572.3	583.1
62.5°	409.0	412.6	419.8	425.2	437.7	450.3	459.3	477.2	493.4	516.7	532.8
65°	367.8	371.4	376.7	380.3	382.1	400.1	405.5	425.2	430.6	455.7	470.0
67.5°	321.1	328.3	335.5	339.1	342.7	353.4	357.0	366.0	378.5	389.3	407.2
70°	272.7	278.1	285.3	290.6	297.8	305.0	315.8	321.1	330.1	337.3	351.6
72.5°	227.8	233.2	236.8	242.2	247.6	253.0	261.9	274.5	281.7	294.2	297.8
75°	184.8	190.2	193.8	197.3	202.7	206.3	209.9	222.5	229.6	240.4	251.2
77.5°	152.5	152.5	156.1	166.8	165.1	165.1	168.6	175.8	181.2	188.4	199.1
80°	118.4	120.2	122.0	131.0	132.8	134.6	132.8	138.1	143.5	145.3	152.5
82.5°	87.9	89.7	89.7	95.1	100.5	100.5	100.5	102.3	107.6	109.4	113.0
85°	59.2	61.0	62.8	64.6	68.2	70.0	71.8	71.8	75.3	77.1	78.9
87.5°	32.3	35.9	37.7	39.5	41.3	43.1	44.9	46.6	48.4	50.2	52.0
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-LD5-93SL-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°	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6	3914.6
2.5°	3934.3	3925.4	3920.0	3905.6	3902.0	3878.7	3882.3	3878.7	3878.7	3884.1	3902.0
5°	4103.0	4059.9	4049.1	4018.6	3993.5	3950.5	3923.6	3909.2	3887.7	3878.7	3891.3
7.5°	4217.8	4185.5	4158.6	4131.7	4095.8	4045.6	4007.9	3964.8	3928.9	3894.9	3885.9
10°	4198.1	4233.9	4233.9	4217.8	4183.7	4133.5	4088.6	4034.8	3972.0	3918.2	3885.9
12.5°	4031.2	4094.0	4144.2	4181.9	4216.0	4181.9	4137.1	4094.0	4024.0	3945.1	3885.9
15°	3848.2	3912.8	3975.6	4054.5	4137.1	4171.1	4169.3	4119.1	4056.3	3973.8	3891.3
17.5°	3719.0	3763.9	3798.0	3884.1	3984.6	4072.5	4131.7	4135.3	4074.3	4000.7	3893.1
20°	3622.2	3654.5	3683.2	3731.6	3819.5	3927.2	4036.6	4097.6	4086.8	4006.1	3898.4
22.5°	3534.3	3557.6	3580.9	3616.8	3686.8	3756.7	3884.1	4009.7	4063.5	3997.1	3893.1
25°	3446.4	3471.5	3489.4	3514.5	3570.1	3627.5	3717.3	3873.3	3993.5	3989.9	3882.3
27.5°	3342.3	3376.4	3397.9	3432.0	3469.7	3512.7	3573.7	3720.8	3893.1	3954.1	3853.6
30°	3216.7	3266.9	3299.2	3336.9	3369.2	3406.9	3455.3	3545.0	3758.5	3884.1	3823.1
32.5°	3035.5	3125.2	3197.0	3232.9	3268.7	3301.0	3344.1	3419.4	3593.5	3789.0	3789.0
35°	2906.3	2947.6	3012.2	3116.2	3161.1	3193.4	3232.9	3292.1	3403.3	3676.0	3733.4
37.5°	2805.9	2822.0	2854.3	2956.6	3040.9	3092.9	3132.4	3170.1	3279.5	3521.7	3661.6
40°	2730.5	2725.1	2721.6	2770.0	2890.2	2972.7	3017.6	3055.2	3139.6	3336.9	3566.6
42.5°	2642.6	2637.2	2619.3	2631.9	2691.1	2829.2	2897.4	2938.6	3008.6	3143.2	3462.5
45°	2551.1	2542.2	2535.0	2522.4	2543.9	2621.1	2761.0	2822.0	2861.5	2981.7	3331.5
47.5°	2457.8	2445.3	2436.3	2425.5	2413.0	2448.9	2581.6	2691.1	2759.2	2834.6	3173.7
50°	2325.1	2341.2	2330.5	2317.9	2307.1	2300.0	2355.6	2535.0	2619.3	2680.3	2981.7
52.5°	1096.2	2131.3	2221.0	2208.5	2194.1	2181.6	2194.1	2330.5	2483.0	2531.4	2750.3
55°	624.3	949.0	1975.2	2088.3	2075.7	2057.8	2047.0	2093.6	2321.5	2386.1	2538.6
57.5°	601.0	602.8	871.9	1881.9	1951.9	1935.8	1923.2	1934.0	2127.7	2237.2	2353.8
60°	581.3	581.3	581.3	832.4	1799.4	1804.8	1788.7	1770.7	1855.0	2070.3	2167.2
62.5°	538.2	549.0	554.4	554.4	821.7	1666.7	1650.5	1645.1	1648.7	1869.4	1980.6
65°	482.6	507.7	518.5	525.7	525.7	862.9	1508.8	1499.8	1487.3	1571.6	1792.2
67.5°	421.6	446.7	470.0	484.4	486.2	502.3	900.6	1350.9	1333.0	1334.8	1591.3
70°	358.8	380.3	405.5	427.0	446.7	455.7	470.0	1121.3	1180.5	1155.4	1363.5
72.5°	310.4	319.3	337.3	358.8	382.1	403.7	416.2	446.7	1024.4	997.5	1037.0
75°	258.3	265.5	278.1	292.4	310.4	335.5	357.0	378.5	543.6	836.0	830.6
77.5°	200.9	213.5	227.8	236.8	245.8	263.7	292.4	314.0	335.5	565.1	665.6
80°	154.3	163.3	170.4	179.4	190.2	202.7	213.5	238.6	263.7	283.5	509.5
82.5°	114.8	120.2	125.6	129.2	132.8	139.9	159.7	168.6	184.8	202.7	240.4
85°	80.7	84.3	87.9	89.7	91.5	93.3	100.5	102.3	118.4	122.0	145.3
87.5°	52.0	53.8	57.4	59.2	59.2	61.0	62.8	62.8	62.8	59.2	71.8
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-LD5-93SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3914.6	3914.6
2.5°	3916.4	3945.1
5°	3911.0	3948.7
7.5°	3896.7	3932.5
10°	3875.1	3918.2
12.5°	3851.8	3893.1
15°	3832.1	3862.6
17.5°	3810.5	3828.5
20°	3781.8	3796.2
22.5°	3753.1	3746.0
25°	3720.8	3704.7
27.5°	3679.6	3649.1
30°	3641.9	3588.1
32.5°	3606.0	3518.1
35°	3557.6	3446.4
37.5°	3507.3	3372.8
40°	3448.1	3288.5
42.5°	3385.4	3204.2
45°	3306.4	3123.4
47.5°	3236.4	3026.5
50°	3139.6	2922.5
52.5°	3021.2	2825.6
55°	2881.2	2707.2
57.5°	2730.5	2583.4
60°	2569.1	2441.7
62.5°	2373.5	2294.6
65°	2143.9	2125.9
67.5°	1844.3	1939.4
70°	1512.4	1725.9
72.5°	1264.8	1499.8
75°	1037.0	1246.9
77.5°	821.7	977.8
80°	513.1	715.8
82.5°	344.5	470.0
85°	208.1	224.3
87.5°	80.7	82.5
90°	0.0	0.0

(END OF REPORT)