

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: **4SNLED-LD5-37SL-LW-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 (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

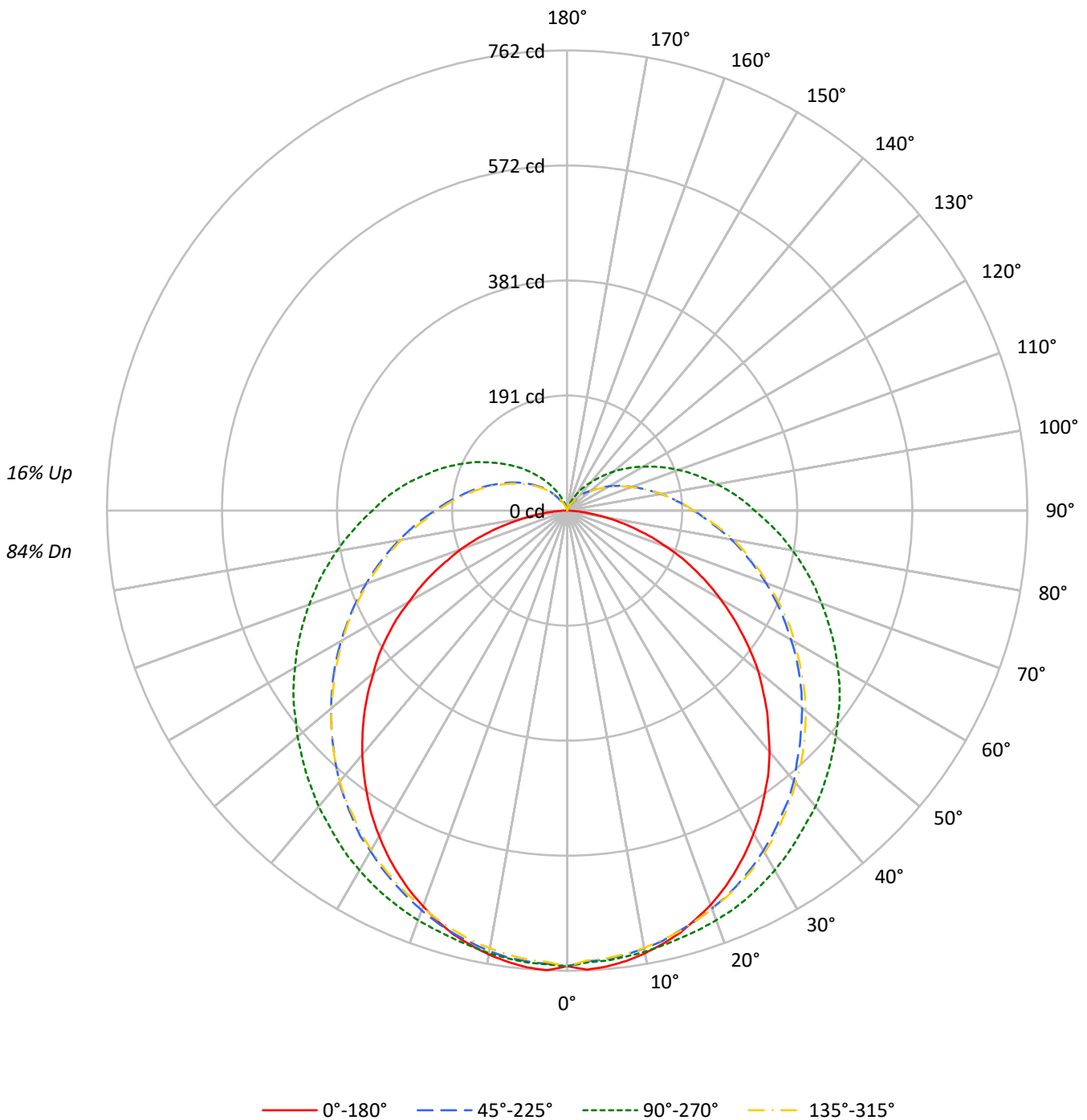
Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 31
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	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64																												
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51																												
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42																												
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35																												
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30																												
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26																												
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23																												
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20																												
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18																												
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6097	6097	6097	6097
5°	6130	5876	6143	5901
10°	6073	5709	6092	5728
15°	6003	5566	6028	5572
20°	5908	5462	5928	5462
25°	5792	5369	5827	5363
30°	5661	5273	5705	5273
35°	5508	5185	5570	5192
40°	5359	5133	5424	5133
45°	5186	5079	5265	5085
50°	5007	5047	5074	5061
55°	4755	5052	4905	5073
60°	4491	5067	4636	5098
65°	4193	5118	4378	5169
70°	3775	5212	4069	5286
75°	3294	5383	3604	5485
80°	2550	5634	2894	5765
85°	1523	6039	1906	6208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	2.2
10°-20°	205.4	6.3
20°-30°	314.9	9.6
30°-40°	388.5	11.9
40°-50°	421.5	12.9
50°-60°	415.5	12.7
60°-70°	375.6	11.5
70°-80°	313.0	9.5
80°-90°	242.4	7.4
90°-100°	183.8	5.6
100°-110°	136.0	4.2
110°-120°	94.6	2.9
120°-130°	60.4	1.8
130°-140°	33.9	1.0
140°-150°	15.5	0.5
150°-160°	4.8	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	591.8	18.1
0°-40°	980.4	29.9
0°-60°	1817.4	55.4
0°-90°	2748.4	83.8
90°-120°	414.5	12.6
90°-150°	524.2	16.0
90°-180°	530.0	16.2
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	754	754	754	754	754	
5°	758	748	759	751	758	72
15°	724	732	727	733	724	204
25°	659	708	663	707	659	304
35°	571	664	577	665	571	357
45°	468	611	475	612	468	361
55°	353	551	364	553	353	316
65°	234	483	244	488	234	232
75°	118	414	129	422	118	125
85°	22	345	28	354	22	27
90°	1	310	2	322	1	1
95°	1	282	1	295	1	1
105°	1	224	1	237	1	1
115°	1	170	1	185	1	1
125°	1	123	1	136	1	1
135°	1	80	1	94	1	1
145°	1	46	1	56	1	1
155°	1	19	1	26	1	0
165°	1	3	1	5	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	760.9	760.9	760.1	758.5	759.3	761.7	760.1	756.1	753.7	747.3	748.9
5°	757.7	757.7	756.9	755.3	756.1	759.3	757.7	754.5	751.3	745.7	748.1
7.5°	752.1	752.1	751.3	749.7	751.3	754.5	752.9	749.7	747.3	741.8	744.2
10°	744.2	744.9	744.2	741.8	744.9	748.1	747.3	743.4	741.0	736.2	738.6
12.5°	734.6	735.4	734.6	733.8	735.4	740.2	738.6	735.4	733.8	729.8	732.2
15°	723.5	724.3	722.7	722.7	724.3	729.0	729.0	725.8	724.3	720.3	725.1
17.5°	709.1	709.9	709.1	709.1	710.7	715.5	716.3	714.7	713.1	711.5	716.3
20°	694.8	694.0	694.0	693.2	696.4	703.6	702.8	702.8	701.2	701.2	706.7
22.5°	678.1	678.1	677.3	677.3	681.3	687.6	687.6	689.2	687.6	690.8	695.6
25°	659.0	659.8	659.0	660.6	663.8	670.9	671.7	674.1	674.9	678.1	683.7
27.5°	639.1	639.9	639.1	640.7	646.3	651.8	655.8	659.0	659.8	664.6	671.7
30°	617.6	617.6	618.4	620.0	626.4	635.1	638.3	642.3	642.3	650.2	657.4
32.5°	595.3	595.3	595.3	598.5	605.7	616.0	620.0	624.8	626.4	634.3	642.3
35°	570.6	571.4	571.4	573.8	583.4	593.7	599.3	604.9	608.1	617.6	625.6
37.5°	547.6	549.2	546.8	550.0	563.5	572.2	578.6	584.2	589.8	602.5	608.9
40°	521.3	522.9	522.1	528.5	539.6	550.8	557.9	563.5	571.4	584.2	591.3
42.5°	493.4	495.0	496.6	503.8	515.7	526.9	535.6	542.8	552.3	563.5	575.4
45°	468.0	468.0	470.4	479.1	491.9	503.8	514.1	522.1	533.2	545.2	557.1
47.5°	439.3	440.1	443.3	453.7	467.2	481.5	491.1	501.4	513.3	526.1	539.6
50°	413.1	413.1	417.8	429.0	441.7	457.6	468.0	479.9	492.7	507.8	521.3
52.5°	382.8	384.4	391.6	401.9	418.6	433.0	444.9	457.6	472.8	488.7	503.8
55°	352.6	355.8	361.3	375.7	393.2	406.7	421.0	436.9	451.3	468.8	486.3
57.5°	323.1	325.5	334.3	348.6	366.9	383.6	398.7	413.9	431.4	448.9	467.2
60°	292.9	296.1	306.4	320.7	340.6	358.1	375.7	391.6	409.9	428.2	447.3
62.5°	264.2	266.6	278.6	295.3	315.2	334.3	351.8	370.9	390.8	408.3	427.4
65°	234.0	238.0	251.5	266.6	289.7	308.8	328.7	349.4	370.1	389.2	407.5
67.5°	206.1	208.5	222.8	240.4	263.4	284.9	305.6	327.9	349.4	369.3	387.6
70°	173.5	181.5	195.8	214.1	238.8	261.1	283.3	306.4	329.5	350.2	367.7
72.5°	146.4	152.8	168.7	188.6	212.5	238.8	261.8	286.5	309.6	331.1	349.4
75°	117.8	124.2	142.5	164.7	189.4	217.3	241.2	266.6	290.5	312.0	331.1
77.5°	89.9	97.9	117.8	140.9	167.9	196.6	221.3	246.7	271.4	294.5	313.6
80°	64.5	73.2	94.7	121.0	147.2	175.9	203.0	228.4	253.1	276.2	296.1
82.5°	41.4	50.9	74.0	100.3	128.1	156.8	184.6	210.1	234.8	257.9	278.6
85°	22.3	32.6	56.5	82.8	110.6	139.3	167.1	194.2	218.1	239.6	261.8
87.5°	6.4	19.1	42.2	68.4	97.1	123.4	150.4	177.5	201.4	224.4	244.3
90°	0.8	11.1	31.8	56.5	84.4	109.8	136.9	162.4	186.2	209.3	229.2
92.5°	0.8	7.2	24.7	47.0	72.4	98.7	125.7	150.4	172.7	195.8	215.7
95°	0.8	5.6	19.9	39.8	63.7	88.3	113.8	137.7	160.8	182.3	202.2
97.5°	0.8	4.0	15.9	34.2	55.7	78.8	103.5	127.3	149.6	170.3	188.6
100°	0.8	3.2	12.7	29.4	48.5	70.8	93.1	116.2	137.7	157.6	176.7
102.5°	0.8	2.4	11.1	24.7	43.0	62.9	84.4	105.9	126.5	145.6	164.7
105°	0.8	2.4	9.6	21.5	38.2	56.5	76.4	97.1	116.2	134.5	152.0
107.5°	0.8	1.6	8.0	18.3	33.4	50.9	69.2	89.1	106.6	124.2	140.9
110°	0.8	1.6	6.4	16.7	29.4	45.4	62.9	81.2	97.9	114.6	130.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.6	5.6	14.3	25.5	40.6	56.5	73.2	89.1	105.9	120.2
115°	0.8	1.6	4.8	12.7	23.9	35.0	50.9	66.1	82.0	97.1	110.6
117.5°	0.8	1.6	4.0	10.3	20.7	31.8	44.6	59.7	74.0	88.3	101.1
120°	0.8	1.6	3.2	9.6	18.3	28.7	39.8	53.3	66.9	80.4	93.9
122.5°	0.8	0.8	3.2	8.0	15.9	25.5	36.6	47.0	59.7	72.4	84.4
125°	0.8	0.8	3.2	7.2	13.5	23.1	32.6	42.2	53.3	64.5	74.8
127.5°	0.8	0.8	2.4	5.6	11.9	19.9	28.7	39.0	47.0	57.3	67.7
130°	0.8	0.8	2.4	4.8	10.3	16.7	25.5	34.2	43.8	50.9	59.7
132.5°	0.8	0.8	2.4	4.0	8.0	13.5	21.5	29.4	38.2	46.2	53.3
135°	0.8	0.8	1.6	3.2	6.4	11.1	17.5	24.7	33.4	41.4	48.5
137.5°	0.8	0.8	1.6	3.2	4.8	9.6	13.5	19.9	27.9	35.0	42.2
140°	0.8	0.8	1.6	2.4	4.0	7.2	11.1	15.9	22.3	28.7	36.6
142.5°	0.8	0.8	0.8	2.4	3.2	5.6	8.8	12.7	17.5	23.1	29.4
145°	0.8	0.8	0.8	2.4	3.2	4.0	7.2	10.3	13.5	17.5	23.1
147.5°	0.8	0.8	0.8	1.6	2.4	3.2	5.6	8.0	10.3	13.5	16.7
150°	0.8	0.8	0.8	1.6	2.4	3.2	4.0	5.6	8.0	11.1	13.5
152.5°	0.8	0.8	0.8	1.6	1.6	2.4	3.2	4.0	5.6	8.0	9.6
155°	0.8	0.8	0.8	0.8	1.6	2.4	3.2	3.2	4.0	5.6	7.2
157.5°	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	3.2	3.2	4.8
160°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	2.4	2.4
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	2.4
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	748.9	749.7	752.1	752.1	750.5	750.5	749.7	748.9	749.7	751.3	751.3
5°	747.3	748.1	750.5	751.3	749.7	748.9	748.9	748.1	748.9	750.5	750.5
7.5°	744.2	744.9	747.3	748.1	746.5	746.5	745.7	744.9	746.5	747.3	747.3
10°	739.4	740.2	743.4	744.2	743.4	742.6	742.6	741.8	742.6	744.2	744.2
12.5°	733.0	734.6	738.6	738.6	738.6	737.8	737.8	737.0	737.8	739.4	738.6
15°	725.8	729.0	732.2	733.8	733.8	733.8	733.0	732.2	733.8	734.6	733.8
17.5°	717.9	721.9	726.6	728.2	728.2	729.0	728.2	727.4	729.0	729.0	728.2
20°	709.9	713.9	718.7	720.3	721.9	722.7	722.7	721.9	722.7	723.5	722.7
22.5°	699.6	704.4	709.9	712.3	713.9	715.5	715.5	715.5	716.3	717.1	715.5
25°	688.4	694.0	700.4	702.8	706.0	706.7	707.5	707.5	708.3	709.1	706.7
27.5°	676.5	682.9	689.2	693.2	695.6	697.2	697.2	698.0	698.8	699.6	697.2
30°	662.2	671.7	677.3	680.5	683.7	686.1	686.8	687.6	688.4	689.2	686.8
32.5°	649.4	657.4	664.6	668.5	672.5	675.7	676.5	676.5	678.1	678.1	675.7
35°	634.3	643.9	651.0	655.0	659.8	662.2	663.8	663.8	665.4	665.4	663.0
37.5°	619.2	628.7	636.7	641.5	647.1	650.2	651.0	651.0	652.6	652.6	649.4
40°	603.3	613.6	622.4	628.0	632.7	636.7	637.5	639.9	639.9	639.1	635.9
42.5°	587.4	596.9	606.5	612.8	619.2	623.2	624.8	625.6	625.6	624.8	622.4
45°	569.9	581.0	589.8	597.7	604.1	608.1	610.4	611.2	611.2	609.6	607.3
47.5°	553.1	564.3	573.0	581.8	588.2	592.9	595.3	596.1	595.3	594.5	592.1
50°	535.6	548.4	557.1	565.9	572.2	576.2	580.2	581.0	580.2	579.4	574.6
52.5°	517.3	530.9	540.4	549.2	556.3	561.1	564.3	565.1	565.1	563.5	560.3
55°	499.0	511.0	522.9	532.4	540.4	545.2	549.2	550.8	549.2	547.6	543.6
57.5°	482.3	493.4	505.4	515.7	523.7	530.1	533.2	534.8	533.2	530.9	526.9
60°	462.4	474.3	487.9	497.4	506.2	512.6	514.1	517.3	515.7	513.3	509.4
62.5°	443.3	457.6	469.6	481.5	488.7	495.8	499.0	500.6	499.0	496.6	492.7
65°	423.4	439.3	451.3	463.2	471.2	478.3	482.3	483.1	481.5	479.1	475.1
67.5°	405.1	420.2	433.0	445.7	452.9	460.0	464.0	465.6	464.0	460.8	456.8
70°	386.8	401.9	417.0	426.6	435.3	443.3	445.7	448.1	446.5	443.3	438.5
72.5°	368.5	384.4	399.5	409.1	418.6	425.8	429.0	431.4	429.8	426.6	421.0
75°	349.4	366.1	381.2	391.6	401.1	408.3	411.5	413.9	412.3	409.1	402.7
77.5°	331.9	348.6	362.9	374.1	383.6	390.0	395.6	396.4	394.8	391.6	385.2
80°	313.6	330.3	345.4	356.6	366.1	372.5	376.5	378.8	377.2	374.1	367.7
82.5°	297.7	312.8	327.9	339.0	348.6	356.6	359.7	362.1	361.3	356.6	351.8
85°	280.2	297.7	309.6	321.5	331.1	339.0	341.4	344.6	343.8	339.8	333.5
87.5°	262.6	280.2	294.5	306.4	315.2	321.5	325.5	327.1	326.3	322.3	315.2
90°	248.3	264.2	278.6	291.3	298.5	305.6	309.6	310.4	310.4	305.6	300.0
92.5°	234.8	249.9	264.2	276.2	284.9	291.3	294.5	296.1	295.3	291.3	284.9
95°	219.7	236.4	249.9	261.8	270.6	277.0	280.2	281.7	280.9	277.0	270.6
97.5°	206.9	222.1	235.6	246.7	255.5	261.8	265.0	266.6	266.6	262.6	256.3
100°	194.2	209.3	222.1	233.2	241.2	247.5	250.7	251.5	250.7	247.5	241.2
102.5°	181.5	195.8	208.5	218.9	227.6	233.2	236.4	237.2	237.2	233.2	226.8
105°	168.7	183.1	195.0	206.1	213.3	218.9	221.3	223.6	222.8	219.7	213.3
107.5°	156.8	171.1	182.3	192.6	199.8	205.3	207.7	210.1	209.3	206.1	199.8
110°	145.6	159.2	169.5	179.9	186.2	191.8	195.8	196.6	195.0	191.8	186.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	135.3	147.2	157.6	167.1	174.3	178.3	181.5	183.1	181.5	178.3	174.3
115°	124.2	136.1	146.4	155.2	161.6	166.3	168.7	170.3	168.7	165.5	161.6
117.5°	113.8	125.0	135.3	144.1	149.6	153.6	156.0	157.6	156.0	153.6	149.6
120°	105.1	114.6	124.2	132.1	138.5	141.7	144.1	145.6	144.9	141.7	137.7
122.5°	94.7	105.1	113.8	121.8	127.3	130.5	132.1	133.7	132.9	130.5	126.5
125°	86.0	94.7	103.5	110.6	116.2	119.4	121.0	122.6	121.8	119.4	114.6
127.5°	76.4	86.0	93.1	100.3	104.3	109.0	109.8	111.4	110.6	108.2	104.3
130°	69.2	76.4	83.6	89.9	94.7	97.9	99.5	100.3	98.7	97.1	93.1
132.5°	60.5	68.4	74.8	80.4	83.6	86.8	88.3	89.1	89.1	86.8	83.6
135°	54.1	59.7	65.3	70.8	74.0	77.2	78.8	79.6	78.8	77.2	74.0
137.5°	48.5	53.3	57.3	62.1	66.1	67.7	69.2	69.2	68.4	67.7	65.3
140°	42.2	47.8	51.7	54.9	58.1	58.9	60.5	60.5	59.7	58.9	57.3
142.5°	35.8	40.6	44.6	48.5	50.9	52.5	53.3	54.1	53.3	52.5	50.1
145°	28.7	34.2	38.2	40.6	43.8	44.6	45.4	46.2	45.4	44.6	42.2
147.5°	22.3	27.1	31.0	34.2	36.6	37.4	38.2	39.0	38.2	36.6	35.8
150°	15.9	19.9	24.7	27.9	29.4	31.0	31.0	31.0	31.8	30.2	28.7
152.5°	12.7	14.3	17.5	20.7	23.1	23.9	24.7	24.7	23.9	23.9	22.3
155°	8.8	10.3	12.7	15.1	17.5	18.3	19.1	19.1	18.3	18.3	17.5
157.5°	5.6	7.2	8.8	10.3	12.7	13.5	14.3	14.3	14.3	13.5	12.7
160°	3.2	4.0	4.8	6.4	8.0	8.8	9.6	9.6	9.6	9.6	8.8
162.5°	2.4	2.4	2.4	3.2	4.0	4.8	5.6	5.6	5.6	5.6	4.8
165°	1.6	1.6	1.6	1.6	1.6	2.4	3.2	3.2	3.2	3.2	3.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	750.5	750.5	751.3	749.7	744.9	745.7	745.7	748.9	750.5	751.3	755.3
5°	748.9	748.9	750.5	748.1	744.2	744.2	744.2	747.3	748.1	749.7	752.9
7.5°	746.5	746.5	747.3	744.9	740.2	740.2	739.4	742.6	744.2	744.9	748.1
10°	742.6	742.6	743.4	741.0	735.4	735.4	734.6	737.0	737.8	739.4	741.8
12.5°	737.0	737.0	737.0	734.6	729.0	728.2	727.4	729.8	729.8	730.6	733.0
15°	732.2	730.6	730.6	728.2	722.7	721.1	719.5	720.3	721.9	721.1	722.7
17.5°	726.6	725.1	723.5	721.1	713.9	711.5	709.9	710.7	709.9	709.1	710.7
20°	720.3	717.9	717.1	713.1	706.0	702.0	698.8	697.2	698.0	695.6	696.4
22.5°	713.1	709.9	708.3	703.6	696.4	691.6	687.6	684.5	683.7	680.5	681.3
25°	704.4	700.4	698.0	694.0	686.1	680.5	675.7	670.9	668.5	664.6	663.8
27.5°	694.0	690.0	686.8	682.9	674.9	667.7	662.2	655.8	652.6	647.9	645.5
30°	683.7	678.9	674.1	670.9	662.2	654.2	645.5	639.9	635.1	629.5	625.6
32.5°	670.9	666.2	661.4	656.6	648.6	639.1	631.9	623.2	617.6	611.2	606.5
35°	658.2	651.8	647.1	640.7	633.5	622.4	613.6	604.9	597.7	590.5	585.0
37.5°	643.9	639.1	631.9	626.4	617.6	606.5	596.9	585.8	579.4	569.9	562.7
40°	630.3	624.8	617.6	610.4	601.7	589.0	578.6	565.9	558.7	547.6	540.4
42.5°	616.8	608.9	601.7	593.7	584.2	572.2	559.5	546.8	537.2	526.9	516.5
45°	601.7	592.9	584.2	575.4	565.9	553.9	540.4	526.9	514.9	505.4	492.7
47.5°	585.8	577.0	566.7	557.1	546.8	534.8	520.5	506.2	493.4	482.3	468.8
50°	569.9	561.1	550.0	539.6	527.7	515.7	500.6	483.9	470.4	456.0	444.1
52.5°	553.1	544.4	534.0	520.5	507.8	495.8	479.9	462.4	447.3	435.3	420.2
55°	536.4	527.7	515.7	502.2	489.5	474.3	459.2	441.7	425.0	410.7	395.6
57.5°	518.9	511.0	497.4	486.3	470.4	454.5	438.5	421.8	403.5	386.8	369.3
60°	501.4	492.7	479.9	466.4	450.5	434.6	417.8	399.5	380.4	362.1	346.2
62.5°	485.5	474.3	462.4	448.1	431.4	416.2	397.1	377.2	358.1	339.0	319.9
65°	467.2	455.2	444.1	429.8	412.3	394.8	375.7	355.8	335.1	314.4	295.3
67.5°	448.9	436.9	425.0	410.7	392.4	374.1	354.2	334.3	311.2	291.3	269.0
70°	430.6	421.0	405.9	390.8	374.1	354.2	334.3	312.8	288.9	267.4	244.3
72.5°	412.3	402.7	387.6	371.7	355.8	335.1	313.6	292.1	269.8	245.1	220.5
75°	394.8	382.8	369.3	354.2	337.5	316.0	294.5	272.2	245.9	222.8	197.4
77.5°	378.0	366.9	353.4	336.7	318.4	297.7	275.4	252.3	226.0	201.4	173.5
80°	359.7	348.6	335.1	318.4	300.0	280.2	256.3	232.4	206.9	179.9	151.2
82.5°	342.2	331.9	316.8	301.6	281.7	261.8	238.0	214.1	187.0	160.8	132.9
85°	323.9	313.6	299.3	283.3	264.2	242.7	220.5	196.6	169.5	142.5	114.6
87.5°	308.0	296.1	281.7	265.8	246.7	226.0	204.5	179.1	152.8	126.5	97.9
90°	291.3	280.2	265.8	249.9	230.8	210.1	187.8	164.0	138.5	111.4	84.4
92.5°	277.0	265.0	251.5	235.6	216.5	196.6	174.3	150.4	125.7	99.5	73.2
95°	262.6	250.7	238.0	222.1	203.0	183.1	160.8	137.7	113.8	88.3	63.7
97.5°	246.7	236.4	223.6	208.5	189.4	170.3	148.8	126.5	103.5	78.8	55.7
100°	234.0	222.1	210.1	194.2	176.7	158.4	136.9	115.4	93.1	70.0	48.5
102.5°	219.7	208.5	196.6	181.5	164.0	145.6	125.7	105.1	84.4	62.9	42.2
105°	206.1	195.8	183.1	168.7	152.0	134.5	115.4	96.3	76.4	55.7	37.4
107.5°	192.6	182.3	170.3	156.8	140.9	123.4	105.9	86.8	68.4	50.1	33.4
110°	179.1	169.5	158.4	144.9	129.7	113.8	97.1	79.6	61.3	44.6	29.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	167.1	157.6	146.4	133.7	119.4	104.3	88.3	71.6	54.9	39.8	25.5
115°	155.2	146.4	135.3	124.2	109.8	95.5	80.4	64.5	49.3	35.8	22.3
117.5°	143.3	134.5	124.2	113.0	100.3	86.8	72.4	57.3	44.6	31.8	19.9
120°	131.3	123.4	113.8	103.5	92.3	78.8	64.5	51.7	39.8	27.9	17.5
122.5°	120.2	113.0	104.3	94.7	82.8	70.0	58.1	47.0	35.8	24.7	14.3
125°	109.8	102.7	94.7	85.2	74.0	62.9	52.5	42.2	31.0	21.5	11.9
127.5°	99.5	92.3	84.4	75.6	66.9	56.5	47.0	37.4	27.9	19.1	10.3
130°	89.1	82.8	75.6	68.4	59.7	50.1	42.2	32.6	23.9	15.1	8.8
132.5°	78.8	74.0	67.7	60.5	52.5	45.4	36.6	28.7	20.7	13.5	8.0
135°	70.0	65.3	59.7	53.3	47.0	39.8	31.8	24.7	17.5	11.1	6.4
137.5°	62.1	58.1	52.5	47.0	41.4	34.2	27.9	20.7	14.3	9.6	4.8
140°	54.9	50.9	46.2	40.6	35.8	29.4	23.1	16.7	12.7	8.0	4.0
142.5°	47.8	43.8	39.8	35.0	30.2	24.7	19.1	14.3	10.3	6.4	4.0
145°	40.6	37.4	33.4	29.4	24.7	19.9	15.9	11.9	8.0	4.8	3.2
147.5°	33.4	31.0	27.1	23.9	19.9	15.9	12.7	9.6	6.4	4.0	2.4
150°	27.1	24.7	21.5	18.3	15.9	12.7	10.3	7.2	4.8	4.0	2.4
152.5°	20.7	19.1	16.7	15.1	12.7	9.6	7.2	5.6	4.0	3.2	1.6
155°	16.7	15.1	13.5	11.1	9.6	7.2	5.6	4.0	3.2	2.4	1.6
157.5°	11.9	11.1	9.6	8.0	6.4	4.8	4.0	4.0	2.4	1.6	0.8
160°	8.0	7.2	6.4	4.8	4.0	4.0	3.2	2.4	1.6	1.6	0.8
162.5°	4.8	4.0	4.0	4.0	3.2	3.2	2.4	1.6	1.6	0.8	0.8
165°	3.2	3.2	3.2	2.4	2.4	2.4	1.6	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	755.3	752.9	756.1	761.7	762.5	761.7	760.1	762.5	765.6	764.8	759.3
5°	753.7	750.5	753.7	759.3	759.3	758.5	757.7	760.1	763.3	762.5	757.7
7.5°	748.9	745.7	748.9	753.7	754.5	752.9	752.9	755.3	758.5	757.7	753.7
10°	742.6	739.4	741.0	746.5	748.1	746.5	746.5	748.9	752.9	752.1	747.3
12.5°	733.0	730.6	732.2	737.0	738.6	737.8	737.0	740.2	744.2	744.2	739.4
15°	722.7	719.5	721.1	726.6	727.4	725.8	726.6	729.0	733.8	733.8	729.8
17.5°	710.7	706.7	709.1	713.1	713.9	713.9	713.9	717.1	722.7	721.9	718.7
20°	697.2	691.6	693.2	697.2	698.8	698.8	698.8	704.4	708.3	708.3	705.2
22.5°	681.3	677.3	677.3	681.3	683.7	682.9	682.9	687.6	693.2	692.4	692.4
25°	663.0	659.8	658.2	663.0	663.8	664.6	666.2	670.9	677.3	677.3	678.1
27.5°	643.9	640.7	639.9	643.9	644.7	645.5	647.1	652.6	659.0	659.8	661.4
30°	625.6	620.8	619.2	622.4	624.0	624.8	624.8	633.5	639.1	641.5	644.7
32.5°	604.1	599.3	595.3	600.9	601.7	603.3	604.1	612.8	619.2	623.2	628.0
35°	582.6	574.6	573.0	577.0	578.6	579.4	581.0	590.5	599.3	602.5	608.9
37.5°	558.7	553.1	548.4	552.3	553.9	554.7	559.5	568.3	577.0	581.8	588.2
40°	536.4	529.3	525.3	527.7	529.3	530.1	535.6	545.2	555.5	561.1	569.1
42.5°	511.8	502.2	499.0	501.4	502.2	504.6	509.4	522.1	532.4	540.4	546.8
45°	487.1	479.9	472.8	475.1	475.9	477.5	484.7	498.2	509.4	518.9	526.1
47.5°	461.6	452.9	445.7	447.3	450.5	451.3	459.2	475.1	485.5	495.8	505.4
50°	436.1	424.2	418.6	418.6	420.2	424.2	434.6	450.5	461.6	473.6	483.9
52.5°	409.9	398.7	392.4	393.2	394.8	399.5	409.1	425.0	437.7	450.5	463.2
55°	383.6	371.7	365.3	363.7	365.3	371.7	382.8	399.5	412.3	427.4	440.9
57.5°	357.4	343.0	337.5	335.1	336.7	344.6	355.8	373.3	389.2	403.5	419.4
60°	328.7	317.6	308.0	302.4	306.4	316.8	328.7	347.0	363.7	379.6	397.1
62.5°	304.0	289.7	279.4	273.8	277.8	286.5	303.2	320.7	339.0	357.4	374.9
65°	276.2	261.8	249.9	244.3	248.3	258.7	275.4	294.5	314.4	332.7	353.4
67.5°	249.1	234.0	219.7	214.1	218.9	230.0	248.3	269.8	291.3	310.4	332.7
70°	222.8	206.1	191.0	187.0	190.2	205.3	222.8	244.3	266.6	288.9	312.0
72.5°	199.0	178.3	162.4	157.6	161.6	178.3	198.2	220.5	244.3	268.2	292.9
75°	171.1	152.0	134.5	128.9	133.7	148.8	173.5	197.4	222.8	248.3	271.4
77.5°	148.8	126.5	108.2	99.5	107.4	126.5	150.4	175.9	202.2	228.4	254.7
80°	125.7	102.7	82.8	73.2	82.0	102.7	126.5	154.4	183.8	210.1	234.0
82.5°	105.1	80.4	59.7	49.3	58.9	82.0	108.2	136.1	164.7	191.0	218.9
85°	86.0	60.5	39.0	27.9	41.4	62.1	89.9	118.6	148.0	175.1	202.2
87.5°	70.0	45.4	23.9	11.9	25.5	48.5	74.8	103.5	132.9	160.0	185.4
90°	57.3	32.6	12.7	1.6	15.1	36.6	62.1	89.9	117.8	145.6	171.1
92.5°	47.0	24.7	7.2	0.8	9.6	29.4	53.3	79.6	106.6	133.7	158.4
95°	39.0	19.1	4.8	0.8	7.2	23.1	45.4	70.8	96.3	122.6	147.2
97.5°	33.4	15.9	4.0	0.8	5.6	19.9	39.0	62.9	87.5	112.2	136.1
100°	28.7	12.7	3.2	0.8	4.8	16.7	34.2	55.7	78.8	102.7	125.7
102.5°	24.7	10.3	2.4	0.8	4.0	14.3	30.2	50.1	70.8	93.9	116.2
105°	21.5	8.8	2.4	0.8	3.2	12.7	27.1	44.6	65.3	86.0	107.4
107.5°	18.3	7.2	1.6	0.8	2.4	10.3	23.9	40.6	58.9	78.8	98.7
110°	15.9	6.4	1.6	0.8	2.4	9.6	20.7	36.6	53.3	71.6	90.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.5	4.8	1.6	0.8	1.6	8.0	18.3	32.6	48.5	65.3	83.6
115°	11.9	4.0	0.8	0.8	1.6	7.2	16.7	29.4	43.8	59.7	76.4
117.5°	9.6	3.2	0.8	0.8	0.8	5.6	14.3	26.3	39.8	54.9	70.0
120°	8.0	3.2	0.8	0.8	0.8	4.8	12.7	23.1	35.8	49.3	63.7
122.5°	7.2	2.4	0.8	0.8	0.8	4.0	11.1	20.7	31.8	44.6	58.1
125°	6.4	2.4	0.8	0.8	0.8	3.2	9.6	18.3	28.7	39.8	52.5
127.5°	4.8	2.4	0.8	0.8	0.8	2.4	8.8	15.9	25.5	35.8	47.0
130°	4.0	1.6	0.8	0.8	0.8	2.4	7.2	14.3	22.3	31.8	42.2
132.5°	3.2	1.6	0.8	0.8	0.8	1.6	5.6	11.1	19.1	27.9	37.4
135°	3.2	1.6	0.8	0.8	0.8	1.6	4.0	9.6	15.9	23.9	31.8
137.5°	3.2	0.8	0.8	0.8	0.8	1.6	3.2	7.2	12.7	19.1	26.3
140°	2.4	0.8	0.8	0.8	0.8	0.8	2.4	5.6	10.3	15.9	22.3
142.5°	2.4	0.8	0.8	0.8	0.8	0.8	2.4	4.0	8.0	12.7	17.5
145°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	3.2	6.4	9.6	14.3
147.5°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.4	4.8	8.0	11.1
150°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.4	3.2	5.6	8.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	4.0	5.6
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	3.2	4.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	3.2
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	756.9	751.3	752.9	752.1	753.7	756.1	756.1	755.3	755.3	753.7	752.1
5°	755.3	749.7	752.1	751.3	752.9	755.3	755.3	754.5	754.5	752.1	751.3
7.5°	750.5	746.5	748.1	748.1	749.7	752.1	752.1	751.3	751.3	748.9	748.1
10°	745.7	741.0	743.4	743.4	744.9	748.1	748.1	747.3	747.3	744.9	744.2
12.5°	737.8	733.0	737.0	737.8	739.4	742.6	741.8	741.8	741.8	739.4	738.6
15°	728.2	725.1	729.0	729.8	732.2	736.2	736.2	736.2	736.2	733.8	733.0
17.5°	717.9	715.5	719.5	721.1	724.3	728.2	728.2	729.0	729.8	728.2	727.4
20°	706.0	704.4	708.3	711.5	716.3	720.3	721.9	722.7	724.3	722.7	721.9
22.5°	692.4	692.4	698.0	701.2	706.7	710.7	713.1	715.5	717.1	715.5	714.7
25°	677.3	679.7	685.3	690.8	697.2	701.2	703.6	706.7	708.3	707.5	706.7
27.5°	663.0	666.2	673.3	678.9	684.5	690.8	693.2	697.2	698.8	698.8	698.0
30°	646.3	651.0	659.0	665.4	672.5	678.9	682.1	686.1	688.4	686.8	687.6
32.5°	630.3	638.3	644.7	651.8	659.8	666.2	670.1	674.9	677.3	676.5	677.3
35°	612.8	620.8	629.5	636.7	646.3	652.6	658.2	662.2	665.4	664.6	664.6
37.5°	593.7	604.1	612.8	622.4	631.1	638.3	643.9	648.6	651.8	651.8	651.8
40°	575.4	586.6	595.3	606.5	617.6	624.0	630.3	635.1	638.3	639.1	639.9
42.5°	555.5	567.5	577.8	589.8	600.9	608.9	616.0	621.6	624.8	626.4	625.6
45°	537.2	548.4	560.3	573.8	584.2	592.1	600.9	607.3	610.4	611.2	612.0
47.5°	516.5	529.3	542.8	556.3	566.7	577.0	585.0	591.3	594.5	596.9	596.9
50°	496.6	510.2	525.3	539.6	550.8	561.1	569.1	576.2	580.2	581.8	582.6
52.5°	478.3	491.1	507.0	521.3	532.4	542.8	553.1	561.1	565.1	566.7	566.7
55°	456.0	472.0	489.5	503.0	514.9	526.9	537.2	545.2	549.2	551.5	553.1
57.5°	435.3	452.1	470.4	484.7	499.0	510.2	519.7	530.1	533.2	536.4	537.2
60°	415.5	432.2	449.7	465.6	479.9	491.9	503.0	511.8	517.3	518.9	520.5
62.5°	394.8	412.3	430.6	446.5	461.6	475.9	486.3	494.2	500.6	503.0	504.6
65°	374.9	393.2	411.5	428.2	444.1	458.4	468.8	476.7	483.1	487.1	487.9
67.5°	353.4	373.3	392.4	409.9	425.8	440.9	451.3	459.2	465.6	470.4	471.2
70°	333.5	354.2	373.3	392.4	408.3	423.4	434.6	442.5	449.7	452.9	454.5
72.5°	314.4	335.9	355.8	374.9	390.8	405.9	417.8	425.8	433.0	436.9	437.7
75°	296.1	317.6	339.0	357.4	374.1	389.2	401.1	409.9	416.2	420.2	421.8
77.5°	277.8	300.0	321.5	339.8	357.4	372.5	382.8	393.2	399.5	404.3	404.3
80°	259.5	282.5	304.8	323.1	340.6	354.2	366.1	376.5	382.8	387.6	387.6
82.5°	243.5	265.8	287.3	305.6	323.1	338.3	350.2	359.7	366.9	370.1	370.9
85°	225.2	249.9	269.8	289.7	306.4	320.7	332.7	343.0	349.4	352.6	354.2
87.5°	210.1	234.0	255.5	273.0	289.7	304.0	317.6	326.3	332.7	336.7	338.3
90°	195.8	218.9	240.4	257.9	275.4	288.9	301.6	310.4	317.6	320.7	322.3
92.5°	183.1	206.1	226.8	244.3	261.1	276.2	288.1	296.9	303.2	306.4	308.8
95°	171.1	193.4	213.3	232.4	248.3	261.8	274.6	283.3	290.5	292.9	295.3
97.5°	159.2	180.7	200.6	218.9	235.6	248.3	260.3	269.0	274.6	278.6	280.9
100°	148.8	169.5	188.6	206.1	222.1	234.0	246.7	254.7	260.3	263.4	266.6
102.5°	137.7	158.4	176.7	193.4	210.1	221.3	233.2	241.2	245.9	251.5	251.5
105°	128.1	147.2	165.5	181.5	195.8	209.3	219.7	227.6	233.2	237.2	237.2
107.5°	117.8	136.9	154.4	171.1	184.6	197.4	206.9	214.1	220.5	222.8	225.2
110°	109.8	126.5	144.1	160.0	172.7	184.6	194.2	202.2	207.7	210.1	211.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	100.3	117.8	133.7	148.8	161.6	172.7	182.3	188.6	194.2	197.4	198.2
115°	92.3	109.0	123.4	137.7	151.2	160.8	169.5	175.9	181.5	183.8	185.4
117.5°	85.2	100.3	114.6	126.5	139.3	149.6	158.4	164.0	168.7	171.9	173.5
120°	78.0	92.3	105.1	117.0	128.9	138.5	146.4	152.0	157.6	160.0	160.0
122.5°	70.8	84.4	96.3	107.4	118.6	127.3	136.1	140.9	145.6	148.0	148.0
125°	64.5	77.2	88.3	98.7	109.0	117.0	124.2	129.7	134.5	136.1	136.1
127.5°	58.1	70.0	80.4	89.9	98.7	106.6	113.8	119.4	123.4	125.0	125.0
130°	52.5	62.9	72.4	82.0	90.7	97.1	104.3	109.0	111.4	113.8	114.6
132.5°	47.0	56.5	65.3	73.2	82.0	88.3	93.9	98.7	101.1	103.5	104.3
135°	41.4	50.1	58.1	66.1	73.2	79.6	84.4	88.3	91.5	93.1	93.9
137.5°	35.0	44.6	51.7	58.1	66.1	70.8	76.4	78.8	82.0	83.6	83.6
140°	29.4	36.6	44.6	50.9	57.3	62.1	66.9	70.8	73.2	74.0	74.0
142.5°	23.9	30.2	36.6	44.6	50.1	54.1	58.9	62.1	63.7	64.5	65.3
145°	19.1	23.9	29.4	36.6	43.0	47.8	50.1	53.3	54.9	55.7	56.5
147.5°	14.3	19.1	23.9	28.7	35.0	39.8	42.2	45.4	47.0	47.8	47.8
150°	11.1	14.3	17.5	22.3	27.1	32.6	35.8	38.2	39.0	39.8	39.8
152.5°	8.0	11.1	13.5	16.7	19.9	24.7	29.4	31.0	31.8	32.6	32.6
155°	5.6	8.0	9.6	11.9	14.3	18.3	22.3	24.7	25.5	26.3	26.3
157.5°	4.0	5.6	6.4	8.8	10.3	11.9	15.1	19.1	19.9	19.9	19.9
160°	2.4	3.2	4.0	5.6	6.4	8.0	9.6	11.9	14.3	14.3	14.3
162.5°	1.6	2.4	2.4	3.2	3.2	4.8	5.6	6.4	8.8	9.6	9.6
165°	0.8	1.6	1.6	1.6	1.6	1.6	2.4	2.4	4.0	4.8	4.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	752.9	754.5	753.7	753.7	753.7	755.3	753.7	746.5	748.1	749.7	751.3
5°	752.1	752.9	752.9	752.1	752.1	753.7	752.1	744.9	746.5	748.1	748.9
7.5°	748.9	749.7	749.7	749.7	748.9	750.5	748.1	741.8	741.8	743.4	744.2
10°	744.9	746.5	745.7	744.9	744.9	744.9	743.4	736.2	736.2	737.0	737.8
12.5°	740.2	740.2	740.2	739.4	738.6	738.6	737.0	729.8	729.0	730.6	729.8
15°	733.8	735.4	733.8	733.0	731.4	731.4	729.0	721.9	720.3	721.1	720.3
17.5°	728.2	729.0	727.4	725.8	724.3	723.5	721.1	713.1	710.7	711.5	709.9
20°	722.7	722.7	721.1	719.5	717.1	714.7	711.5	703.6	699.6	699.6	696.4
22.5°	715.5	715.5	713.9	711.5	709.1	706.0	702.8	694.8	688.4	686.8	684.5
25°	707.5	706.7	706.0	703.6	698.8	695.6	692.4	683.7	676.5	673.3	669.3
27.5°	698.0	698.0	695.6	693.2	688.4	684.5	680.5	672.5	663.0	659.0	653.4
30°	687.6	687.6	685.3	682.1	677.3	672.5	667.7	658.2	648.6	643.1	636.7
32.5°	677.3	676.5	674.1	670.9	666.2	659.0	655.0	645.5	634.3	628.0	619.2
35°	664.6	663.8	661.4	657.4	651.0	645.5	639.1	630.3	617.6	609.6	600.1
37.5°	651.8	651.0	649.4	643.9	637.5	631.1	623.2	614.4	602.5	592.1	582.6
40°	639.1	638.3	635.1	631.1	623.2	615.2	607.3	598.5	585.8	573.8	563.5
42.5°	625.6	624.8	620.8	616.0	607.3	599.3	589.8	580.2	567.5	553.1	542.8
45°	612.0	610.4	606.5	600.9	591.3	582.6	573.0	561.9	549.2	535.6	522.1
47.5°	597.7	595.3	591.3	583.4	575.4	565.9	554.7	542.8	530.1	514.9	500.6
50°	581.8	580.2	575.4	568.3	558.7	549.2	536.4	524.5	509.4	495.0	477.5
52.5°	566.7	563.5	559.5	551.5	542.0	531.7	518.1	503.8	488.7	475.1	456.8
55°	550.8	549.2	543.6	537.2	525.3	513.3	500.6	485.5	468.8	452.9	435.3
57.5°	535.6	532.4	527.7	518.9	508.6	496.6	483.1	467.2	448.9	432.2	413.1
60°	520.5	515.7	510.2	502.2	491.1	478.3	464.0	447.3	429.0	410.7	390.8
62.5°	503.8	499.8	493.4	485.5	474.3	460.8	445.7	428.2	410.7	391.6	370.1
65°	487.1	483.1	476.7	468.8	457.6	442.5	426.6	409.1	389.2	370.9	347.8
67.5°	470.4	466.4	459.2	450.5	439.3	425.0	408.3	390.0	370.1	350.2	326.3
70°	453.7	448.9	442.5	433.0	421.8	406.7	390.0	370.9	351.0	329.5	305.6
72.5°	436.9	433.0	425.0	416.2	404.3	389.2	372.5	353.4	332.7	310.4	286.5
75°	420.2	415.5	409.9	399.5	386.8	372.5	355.0	335.9	313.6	292.1	267.4
77.5°	403.5	399.5	392.4	382.0	370.1	355.0	337.5	318.4	296.1	273.8	247.5
80°	386.8	382.0	376.5	366.9	353.4	338.3	319.9	300.8	278.6	255.5	229.2
82.5°	370.1	365.3	358.9	349.4	336.7	321.5	304.0	283.3	261.1	237.2	212.5
85°	353.4	349.4	342.2	332.7	319.2	304.0	286.5	268.2	244.3	220.5	195.8
87.5°	336.7	332.7	325.5	316.0	303.2	288.1	270.6	251.5	228.4	206.1	179.1
90°	320.7	317.6	310.4	300.8	288.1	273.0	257.1	236.4	214.1	191.8	166.3
92.5°	306.4	303.2	296.9	287.3	276.2	259.5	243.5	223.6	201.4	178.3	153.6
95°	293.7	289.7	283.3	274.6	261.1	246.7	230.8	210.9	189.4	166.3	142.5
97.5°	279.4	275.4	269.0	259.5	248.3	233.2	217.3	198.2	176.7	155.2	131.3
100°	265.0	261.1	253.9	245.9	234.8	219.7	204.5	185.4	165.5	144.9	121.8
102.5°	250.7	246.7	240.4	232.4	221.3	207.7	192.6	174.3	154.4	133.7	112.2
105°	237.2	233.2	226.8	218.9	208.5	195.0	179.1	163.2	144.1	124.2	103.5
107.5°	223.6	219.7	214.1	206.1	195.8	183.1	167.9	151.2	133.7	114.6	94.7
110°	210.1	206.9	200.6	193.4	183.1	170.3	156.8	140.9	123.4	105.9	86.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	197.4	194.2	187.8	179.9	171.1	159.2	145.6	130.5	113.8	97.1	78.8
115°	184.6	180.7	175.1	167.9	159.2	148.0	135.3	121.8	105.1	89.1	72.4
117.5°	171.9	168.7	163.2	156.0	148.0	136.9	125.0	112.2	96.3	81.2	66.1
120°	159.2	156.8	151.2	144.9	136.9	126.5	115.4	102.7	88.3	74.0	59.7
122.5°	147.2	144.9	139.3	133.7	125.7	116.2	105.9	93.9	81.2	67.7	54.9
125°	136.1	132.9	128.1	122.6	115.4	106.6	96.3	85.2	73.2	61.3	49.3
127.5°	124.2	121.8	118.6	112.2	105.1	97.1	87.5	78.0	66.9	55.7	44.6
130°	114.6	111.4	107.4	102.7	96.3	88.3	79.6	70.0	60.5	50.1	39.0
132.5°	103.5	100.3	97.1	92.3	86.8	79.6	71.6	62.9	54.1	44.6	35.0
135°	93.1	90.7	87.5	82.8	77.2	71.6	63.7	55.7	47.8	39.0	31.0
137.5°	83.6	81.2	78.0	74.8	69.2	63.7	56.5	49.3	42.2	34.2	27.1
140°	74.0	72.4	69.2	66.1	61.3	55.7	49.3	43.0	36.6	29.4	23.1
142.5°	64.5	62.9	60.5	57.3	53.3	48.5	43.0	37.4	31.0	25.5	19.9
145°	55.7	54.9	52.5	49.3	46.2	41.4	36.6	31.8	26.3	21.5	15.9
147.5°	47.0	46.2	44.6	42.2	39.0	35.0	31.0	26.3	22.3	17.5	12.7
150°	39.0	38.2	37.4	34.2	32.6	28.7	25.5	21.5	18.3	13.5	10.3
152.5°	31.8	31.8	30.2	27.9	26.3	23.1	20.7	17.5	14.3	11.1	8.0
155°	25.5	24.7	23.9	22.3	20.7	18.3	15.9	13.5	11.1	8.0	5.6
157.5°	19.9	19.1	18.3	16.7	15.1	14.3	11.9	9.6	7.2	5.6	4.0
160°	14.3	13.5	12.7	11.9	11.1	9.6	8.0	6.4	4.8	3.2	2.4
162.5°	9.6	8.8	8.8	8.0	7.2	5.6	4.8	4.0	3.2	2.4	1.6
165°	4.8	4.8	4.0	4.0	3.2	2.4	2.4	2.4	1.6	1.6	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	750.5	750.5	753.7	752.9	750.5	755.3	760.9
5°	748.1	748.1	750.5	750.5	748.1	752.9	757.7
7.5°	744.2	743.4	745.7	745.7	742.6	746.5	752.1
10°	737.0	736.2	738.6	738.6	735.4	739.4	744.2
12.5°	729.0	727.4	729.8	729.0	725.8	729.8	734.6
15°	718.7	717.9	719.5	717.9	714.7	718.7	723.5
17.5°	708.3	706.0	706.7	706.7	701.2	705.2	709.1
20°	694.8	691.6	692.4	691.6	687.6	690.0	694.8
22.5°	681.3	676.5	676.5	675.7	670.9	674.1	678.1
25°	664.6	659.0	659.0	658.2	652.6	655.0	659.0
27.5°	647.9	642.3	639.9	639.1	633.5	633.5	639.1
30°	630.3	622.4	620.8	618.4	612.8	612.8	617.6
32.5°	613.6	602.5	599.3	596.1	590.5	589.8	595.3
35°	591.3	582.6	577.0	573.8	567.5	565.9	570.6
37.5°	573.0	561.9	553.9	550.0	543.6	541.2	547.6
40°	553.1	541.2	530.9	528.5	518.9	515.7	521.3
42.5°	530.9	518.1	507.8	503.0	495.8	492.7	493.4
45°	508.6	495.0	483.9	477.5	470.4	464.8	468.0
47.5°	485.5	473.6	460.0	450.5	441.7	437.7	439.3
50°	462.4	448.1	435.3	425.0	414.7	409.9	413.1
52.5°	439.3	424.2	409.9	398.7	386.8	382.0	382.8
55°	417.0	401.1	384.4	372.5	361.3	354.2	352.6
57.5°	394.8	377.2	359.7	346.2	331.9	325.5	323.1
60°	370.9	352.6	334.3	318.4	303.2	296.1	292.9
62.5°	348.6	328.7	308.0	291.3	276.2	266.6	264.2
65°	327.1	304.0	283.3	264.2	247.5	237.2	234.0
67.5°	304.0	280.2	257.9	237.2	221.3	207.7	206.1
70°	282.5	257.1	232.4	210.9	193.4	179.9	173.5
72.5°	261.1	234.8	209.3	186.2	164.0	151.2	146.4
75°	240.4	213.3	186.2	162.4	137.7	122.6	117.8
77.5°	221.3	193.4	164.7	138.5	115.4	96.3	89.9
80°	203.0	174.3	144.1	117.0	92.3	71.6	64.5
82.5°	183.8	156.8	125.7	97.1	71.6	50.1	41.4
85°	167.1	140.1	109.0	80.4	54.9	31.8	22.3
87.5°	153.6	124.2	96.3	67.7	41.4	18.3	6.4
90°	140.1	111.4	83.6	55.7	31.0	10.3	0.8
92.5°	128.1	101.1	73.2	47.8	23.9	7.2	0.8
95°	117.0	90.7	64.5	39.8	19.1	4.8	0.8
97.5°	106.6	82.0	57.3	34.2	15.9	4.0	0.8
100°	97.9	74.0	50.9	30.2	13.5	3.2	0.8
102.5°	89.1	66.9	45.4	26.3	11.9	2.4	0.8
105°	82.0	60.5	40.6	23.9	10.3	2.4	0.8
107.5°	74.8	54.9	36.6	20.7	8.8	1.6	0.8
110°	67.7	50.1	32.6	18.3	8.0	1.6	0.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	62.1	45.4	29.4	16.7	6.4	1.6	0.8
115°	56.5	40.6	26.3	14.3	5.6	0.8	0.8
117.5°	50.9	36.6	23.1	12.7	4.8	0.8	0.8
120°	46.2	32.6	20.7	11.1	4.0	0.8	0.8
122.5°	41.4	29.4	18.3	9.6	3.2	0.8	0.8
125°	37.4	26.3	15.9	8.0	2.4	0.8	0.8
127.5°	33.4	23.1	14.3	7.2	2.4	0.8	0.8
130°	29.4	20.7	11.9	5.6	1.6	0.8	0.8
132.5°	26.3	17.5	10.3	4.8	1.6	0.8	0.8
135°	23.1	15.1	8.8	3.2	1.6	0.8	0.8
137.5°	19.9	12.7	7.2	2.4	0.8	0.8	0.8
140°	16.7	11.1	5.6	2.4	0.8	0.8	0.8
142.5°	14.3	8.8	4.0	1.6	0.8	0.8	0.8
145°	11.1	7.2	3.2	1.6	0.8	0.8	0.8
147.5°	8.8	5.6	2.4	1.6	0.8	0.8	0.8
150°	6.4	4.0	2.4	0.8	0.8	0.8	0.8
152.5°	4.8	3.2	1.6	0.8	0.8	0.8	0.8
155°	3.2	2.4	1.6	0.8	0.8	0.8	0.8
157.5°	2.4	1.6	0.8	0.8	0.8	0.8	0.8
160°	1.6	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)