

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

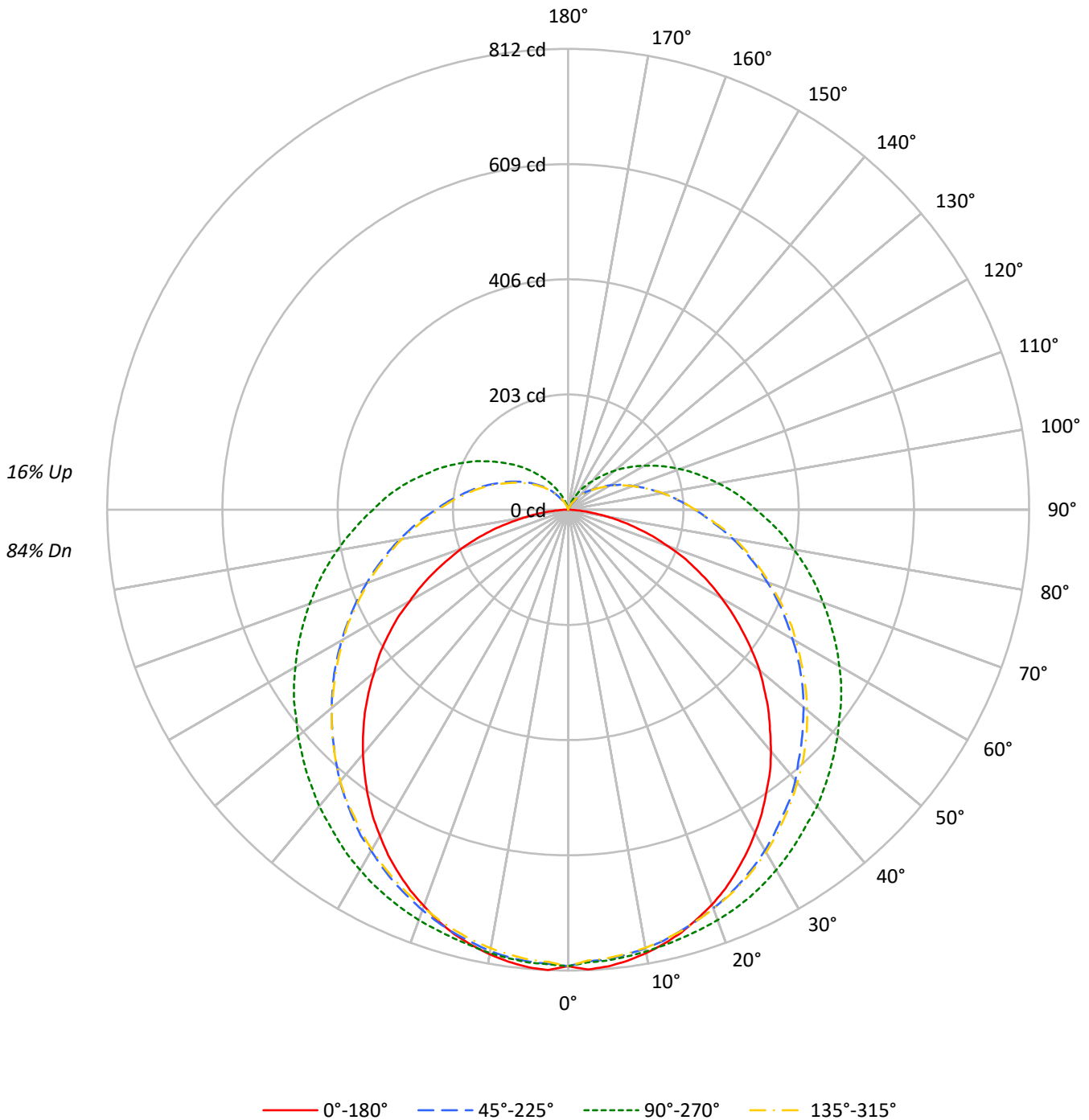
Lumens per Lamp: N/A
Luminaire Lumens: 3494.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	6499	6499	6499	6499
5°	6533	6263	6547	6289
10°	6473	6085	6493	6105
15°	6398	5933	6426	5939
20°	6297	5821	6319	5821
25°	6173	5723	6211	5716
30°	6034	5621	6081	5621
35°	5872	5527	5937	5534
40°	5712	5472	5781	5472
45°	5528	5413	5613	5421
50°	5337	5379	5408	5394
55°	5068	5384	5229	5408
60°	4787	5401	4943	5434
65°	4469	5455	4666	5509
70°	4023	5555	4339	5634
75°	3512	5736	3842	5847
80°	2716	6006	3083	6144
85°	1626	6437	2029	6616



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	2.2
10°-20°	219.0	6.3
20°-30°	335.7	9.6
30°-40°	414.1	11.9
40°-50°	449.3	12.9
50°-60°	442.9	12.7
60°-70°	400.4	11.5
70°-80°	333.6	9.5
80°-90°	258.4	7.4
90°-100°	195.9	5.6
100°-110°	145.0	4.1
110°-120°	100.9	2.9
120°-130°	64.3	1.8
130°-140°	36.1	1.0
140°-150°	16.5	0.5
150°-160°	5.1	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	630.8	18.1
0°-40°	1045.0	29.9
0°-60°	1937.2	55.4
0°-90°	2929.5	83.8
90°-120°	441.8	12.6
90°-150°	558.7	16.0
90°-180°	564.0	16.1
0°-180°	3494.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	804	804	804	804	804	
5°	808	797	809	801	808	77
15°	771	780	774	781	771	217
25°	702	754	707	753	702	324
35°	608	708	615	708	608	381
45°	499	652	506	652	499	384
55°	376	587	388	590	376	336
65°	249	515	260	520	249	247
75°	126	441	137	450	126	133
85°	24	367	30	378	24	29
90°	1	331	2	344	1	1
95°	1	300	1	315	1	1
105°	1	238	1	253	1	1
115°	1	182	1	198	1	1
125°	1	131	1	145	1	1
135°	1	85	1	100	1	1
145°	1	49	1	60	1	1
155°	1	20	1	28	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-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	811.0	811.0	810.2	808.5	809.3	811.9	810.2	805.9	803.4	796.6	798.3
5°	807.6	807.6	806.8	805.1	805.9	809.3	807.6	804.2	800.8	794.9	797.4
7.5°	801.7	801.7	800.8	799.1	800.8	804.2	802.5	799.1	796.6	790.6	793.2
10°	793.2	794.0	793.2	790.6	794.0	797.4	796.6	792.3	789.8	784.7	787.2
12.5°	783.0	783.9	783.0	782.2	783.9	788.9	787.2	783.9	782.2	777.9	780.5
15°	771.1	772.0	770.3	770.3	772.0	777.1	777.1	773.7	772.0	767.7	772.8
17.5°	755.9	756.7	755.9	755.9	757.6	762.6	763.5	761.8	760.1	758.4	763.5
20°	740.6	739.7	739.7	738.9	742.3	749.9	749.1	749.1	747.4	747.4	753.3
22.5°	722.8	722.8	721.9	721.9	726.2	733.0	733.0	734.7	733.0	736.3	741.4
25°	702.4	703.3	702.4	704.1	707.5	715.1	716.0	718.5	719.4	722.8	728.7
27.5°	681.2	682.1	681.2	682.9	688.8	694.8	699.0	702.4	703.3	708.4	716.0
30°	658.3	658.3	659.2	660.8	667.6	677.0	680.4	684.6	684.6	693.1	700.7
32.5°	634.6	634.6	634.6	637.9	645.6	656.6	660.8	665.9	667.6	676.1	684.6
35°	608.3	609.1	609.1	611.6	621.8	632.9	638.8	644.7	648.1	658.3	666.8
37.5°	583.7	585.3	582.8	586.2	600.6	609.9	616.7	622.7	628.6	642.2	649.0
40°	555.7	557.4	556.5	563.3	575.2	587.0	594.7	600.6	609.1	622.7	630.3
42.5°	526.0	527.7	529.4	537.0	549.7	561.6	570.9	578.6	588.7	600.6	613.3
45°	498.8	498.8	501.4	510.7	524.3	537.0	548.0	556.5	568.4	581.1	593.8
47.5°	468.3	469.1	472.5	483.5	498.0	513.2	523.4	534.4	547.2	560.7	575.2
50°	440.3	440.3	445.4	457.2	470.8	487.8	498.8	511.5	525.1	541.2	555.7
52.5°	408.0	409.7	417.4	428.4	446.2	461.5	474.2	487.8	503.9	520.9	537.0
55°	375.8	379.2	385.1	400.4	419.1	433.5	448.8	465.7	481.0	499.7	518.3
57.5°	344.4	347.0	356.3	371.6	391.1	408.9	425.0	441.1	459.8	478.5	498.0
60°	312.2	315.6	326.6	341.9	363.1	381.7	400.4	417.4	436.9	456.4	476.8
62.5°	281.6	284.2	296.9	314.7	335.9	356.3	375.0	395.3	416.5	435.2	455.6
65°	249.4	253.7	268.1	284.2	308.8	329.2	350.4	372.4	394.5	414.8	434.3
67.5°	219.7	222.3	237.5	256.2	280.8	303.7	325.8	349.5	372.4	393.6	413.1
70°	184.9	193.4	208.7	228.2	254.5	278.3	302.0	326.6	351.2	373.3	391.9
72.5°	156.1	162.9	179.8	201.1	226.5	254.5	279.1	305.4	330.0	352.9	372.4
75°	125.6	132.3	151.9	175.6	201.9	231.6	257.0	284.2	309.6	332.5	352.9
77.5°	95.9	104.3	125.6	150.2	179.0	209.5	235.8	263.0	289.3	313.9	334.2
80°	68.7	78.0	101.0	128.9	156.9	187.5	216.3	243.5	269.8	294.4	315.6
82.5°	44.1	54.3	78.9	106.9	136.6	167.1	196.8	224.0	250.3	274.9	296.9
85°	23.8	34.8	60.2	88.2	117.9	148.5	178.1	207.0	232.4	255.3	279.1
87.5°	6.8	20.4	45.0	73.0	103.5	131.5	160.3	189.2	214.6	239.2	260.4
90°	0.8	11.9	33.9	60.2	89.9	117.1	145.9	173.1	198.5	223.1	244.3
92.5°	0.8	7.6	26.3	50.1	77.2	105.2	134.0	160.3	184.1	208.7	229.9
95°	0.8	5.9	21.2	42.4	67.9	94.2	121.3	146.8	171.4	194.3	215.5
97.5°	0.8	4.2	17.0	36.5	59.4	84.0	110.3	135.7	159.5	181.5	201.1
100°	0.8	3.4	13.6	31.4	51.7	75.5	99.3	123.9	146.8	168.0	188.3
102.5°	0.8	2.5	11.9	26.3	45.8	67.0	89.9	112.8	134.9	155.2	175.6
105°	0.8	2.5	10.2	22.9	40.7	60.2	81.4	103.5	123.9	143.4	162.0
107.5°	0.8	1.7	8.5	19.5	35.6	54.3	73.8	95.0	113.7	132.3	150.2
110°	0.8	1.7	6.8	17.8	31.4	48.4	67.0	86.5	104.3	122.2	139.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.7	5.9	15.3	27.1	43.3	60.2	78.0	95.0	112.8	128.1
115°	0.8	1.7	5.1	13.6	25.4	37.3	54.3	70.4	87.4	103.5	117.9
117.5°	0.8	1.7	4.2	11.0	22.1	33.9	47.5	63.6	78.9	94.2	107.7
120°	0.8	1.7	3.4	10.2	19.5	30.5	42.4	56.8	71.3	85.7	100.1
122.5°	0.8	0.8	3.4	8.5	17.0	27.1	39.0	50.1	63.6	77.2	89.9
125°	0.8	0.8	3.4	7.6	14.4	24.6	34.8	45.0	56.8	68.7	79.7
127.5°	0.8	0.8	2.5	5.9	12.7	21.2	30.5	41.6	50.1	61.1	72.1
130°	0.8	0.8	2.5	5.1	11.0	17.8	27.1	36.5	46.7	54.3	63.6
132.5°	0.8	0.8	2.5	4.2	8.5	14.4	22.9	31.4	40.7	49.2	56.8
135°	0.8	0.8	1.7	3.4	6.8	11.9	18.7	26.3	35.6	44.1	51.7
137.5°	0.8	0.8	1.7	3.4	5.1	10.2	14.4	21.2	29.7	37.3	45.0
140°	0.8	0.8	1.7	2.5	4.2	7.6	11.9	17.0	23.8	30.5	39.0
142.5°	0.8	0.8	0.8	2.5	3.4	5.9	9.3	13.6	18.7	24.6	31.4
145°	0.8	0.8	0.8	2.5	3.4	4.2	7.6	11.0	14.4	18.7	24.6
147.5°	0.8	0.8	0.8	1.7	2.5	3.4	5.9	8.5	11.0	14.4	17.8
150°	0.8	0.8	0.8	1.7	2.5	3.4	4.2	5.9	8.5	11.9	14.4
152.5°	0.8	0.8	0.8	1.7	1.7	2.5	3.4	4.2	5.9	8.5	10.2
155°	0.8	0.8	0.8	0.8	1.7	2.5	3.4	3.4	4.2	5.9	7.6
157.5°	0.8	0.8	0.8	0.8	1.7	1.7	2.5	2.5	3.4	3.4	5.1
160°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5	2.5	2.5	2.5
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	2.5	2.5
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	798.3	799.1	801.7	801.7	800.0	800.0	799.1	798.3	799.1	800.8	800.8
5°	796.6	797.4	800.0	800.8	799.1	798.3	798.3	797.4	798.3	800.0	800.0
7.5°	793.2	794.0	796.6	797.4	795.7	795.7	794.9	794.0	795.7	796.6	796.6
10°	788.1	788.9	792.3	793.2	792.3	791.5	791.5	790.6	791.5	793.2	793.2
12.5°	781.3	783.0	787.2	787.2	787.2	786.4	786.4	785.6	786.4	788.1	787.2
15°	773.7	777.1	780.5	782.2	782.2	782.2	781.3	780.5	782.2	783.0	782.2
17.5°	765.2	769.4	774.5	776.2	776.2	777.1	776.2	775.4	777.1	777.1	776.2
20°	756.7	761.0	766.0	767.7	769.4	770.3	770.3	769.4	770.3	771.1	770.3
22.5°	745.7	750.8	756.7	759.3	761.0	762.6	762.6	762.6	763.5	764.3	762.6
25°	733.8	739.7	746.5	749.1	752.5	753.3	754.2	754.2	755.0	755.9	753.3
27.5°	721.1	727.9	734.7	738.9	741.4	743.1	743.1	744.0	744.8	745.7	743.1
30°	705.8	716.0	721.9	725.3	728.7	731.3	732.1	733.0	733.8	734.7	732.1
32.5°	692.2	700.7	708.4	712.6	716.8	720.2	721.1	721.1	722.8	722.8	720.2
35°	676.1	686.3	693.9	698.2	703.3	705.8	707.5	707.5	709.2	709.2	706.7
37.5°	660.0	670.2	678.7	683.8	689.7	693.1	693.9	693.9	695.6	695.6	692.2
40°	643.0	654.1	663.4	669.3	674.4	678.7	679.5	682.1	682.1	681.2	677.8
42.5°	626.1	636.2	646.4	653.2	660.0	664.2	665.9	666.8	666.8	665.9	663.4
45°	607.4	619.3	628.6	637.1	643.9	648.1	650.7	651.5	651.5	649.8	647.3
47.5°	589.6	601.5	610.8	620.1	626.9	632.0	634.6	635.4	634.6	633.7	631.2
50°	570.9	584.5	593.8	603.2	609.9	614.2	618.4	619.3	618.4	617.6	612.5
52.5°	551.4	565.8	576.0	585.3	593.0	598.1	601.5	602.3	602.3	600.6	597.2
55°	531.9	544.6	557.4	567.5	576.0	581.1	585.3	587.0	585.3	583.7	579.4
57.5°	514.1	526.0	538.7	549.7	558.2	565.0	568.4	570.1	568.4	565.8	561.6
60°	492.9	505.6	520.0	530.2	539.5	546.3	548.0	551.4	549.7	547.2	542.9
62.5°	472.5	487.8	500.5	513.2	520.9	528.5	531.9	533.6	531.9	529.4	525.1
65°	451.3	468.3	481.0	493.7	502.2	509.8	514.1	514.9	513.2	510.7	506.5
67.5°	431.8	447.9	461.5	475.1	482.7	490.3	494.6	496.3	494.6	491.2	486.9
70°	412.3	428.4	444.5	454.7	464.0	472.5	475.1	477.6	475.9	472.5	467.4
72.5°	392.8	409.7	425.9	436.0	446.2	453.9	457.2	459.8	458.1	454.7	448.8
75°	372.4	390.2	406.3	417.4	427.6	435.2	438.6	441.1	439.4	436.0	429.3
77.5°	353.8	371.6	386.8	398.7	408.9	415.7	421.6	422.5	420.8	417.4	410.6
80°	334.2	352.1	368.2	380.1	390.2	397.0	401.3	403.8	402.1	398.7	391.9
82.5°	317.3	333.4	349.5	361.4	371.6	380.1	383.4	386.0	385.1	380.1	375.0
85°	298.6	317.3	330.0	342.7	352.9	361.4	363.9	367.3	366.5	362.2	355.5
87.5°	279.9	298.6	313.9	326.6	335.9	342.7	347.0	348.7	347.8	343.6	335.9
90°	264.7	281.6	296.9	310.5	318.1	325.8	330.0	330.8	330.8	325.8	319.8
92.5°	250.3	266.4	281.6	294.4	303.7	310.5	313.9	315.6	314.7	310.5	303.7
95°	234.1	252.0	266.4	279.1	288.4	295.2	298.6	300.3	299.5	295.2	288.4
97.5°	220.6	236.7	251.1	263.0	272.3	279.1	282.5	284.2	284.2	279.9	273.2
100°	207.0	223.1	236.7	248.6	257.0	263.8	267.2	268.1	267.2	263.8	257.0
102.5°	193.4	208.7	222.3	233.3	242.6	248.6	252.0	252.8	252.8	248.6	241.8
105°	179.8	195.1	207.8	219.7	227.4	233.3	235.8	238.4	237.5	234.1	227.4
107.5°	167.1	182.4	194.3	205.3	212.9	218.9	221.4	224.0	223.1	219.7	212.9
110°	155.2	169.7	180.7	191.7	198.5	204.4	208.7	209.5	207.8	204.4	198.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	144.2	156.9	168.0	178.1	185.8	190.0	193.4	195.1	193.4	190.0	185.8
115°	132.3	145.1	156.1	165.4	172.2	177.3	179.8	181.5	179.8	176.5	172.2
117.5°	121.3	133.2	144.2	153.5	159.5	163.7	166.3	168.0	166.3	163.7	159.5
120°	112.0	122.2	132.3	140.8	147.6	151.0	153.5	155.2	154.4	151.0	146.8
122.5°	101.0	112.0	121.3	129.8	135.7	139.1	140.8	142.5	141.7	139.1	134.9
125°	91.6	101.0	110.3	117.9	123.9	127.2	128.9	130.6	129.8	127.2	122.2
127.5°	81.4	91.6	99.3	106.9	111.1	116.2	117.1	118.8	117.9	115.4	111.1
130°	73.8	81.4	89.1	95.9	101.0	104.3	106.0	106.9	105.2	103.5	99.3
132.5°	64.5	73.0	79.7	85.7	89.1	92.5	94.2	95.0	95.0	92.5	89.1
135°	57.7	63.6	69.6	75.5	78.9	82.3	84.0	84.8	84.0	82.3	78.9
137.5°	51.7	56.8	61.1	66.2	70.4	72.1	73.8	73.8	73.0	72.1	69.6
140°	45.0	50.9	55.1	58.5	61.9	62.8	64.5	64.5	63.6	62.8	61.1
142.5°	38.2	43.3	47.5	51.7	54.3	56.0	56.8	57.7	56.8	56.0	53.4
145°	30.5	36.5	40.7	43.3	46.7	47.5	48.4	49.2	48.4	47.5	45.0
147.5°	23.8	28.8	33.1	36.5	39.0	39.9	40.7	41.6	40.7	39.0	38.2
150°	17.0	21.2	26.3	29.7	31.4	33.1	33.1	33.1	33.9	32.2	30.5
152.5°	13.6	15.3	18.7	22.1	24.6	25.4	26.3	26.3	25.4	25.4	23.8
155°	9.3	11.0	13.6	16.1	18.7	19.5	20.4	20.4	19.5	19.5	18.7
157.5°	5.9	7.6	9.3	11.0	13.6	14.4	15.3	15.3	15.3	14.4	13.6
160°	3.4	4.2	5.1	6.8	8.5	9.3	10.2	10.2	10.2	10.2	9.3
162.5°	2.5	2.5	2.5	3.4	4.2	5.1	5.9	5.9	5.9	5.9	5.1
165°	1.7	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	800.0	800.0	800.8	799.1	794.0	794.9	794.9	798.3	800.0	800.8	805.1
5°	798.3	798.3	800.0	797.4	793.2	793.2	793.2	796.6	797.4	799.1	802.5
7.5°	795.7	795.7	796.6	794.0	788.9	788.9	788.1	791.5	793.2	794.0	797.4
10°	791.5	791.5	792.3	789.8	783.9	783.9	783.0	785.6	786.4	788.1	790.6
12.5°	785.6	785.6	785.6	783.0	777.1	776.2	775.4	777.9	777.9	778.8	781.3
15°	780.5	778.8	778.8	776.2	770.3	768.6	766.9	767.7	769.4	768.6	770.3
17.5°	774.5	772.8	771.1	768.6	761.0	758.4	756.7	757.6	756.7	755.9	757.6
20°	767.7	765.2	764.3	760.1	752.5	748.2	744.8	743.1	744.0	741.4	742.3
22.5°	760.1	756.7	755.0	749.9	742.3	737.2	733.0	729.6	728.7	725.3	726.2
25°	750.8	746.5	744.0	739.7	731.3	725.3	720.2	715.1	712.6	708.4	707.5
27.5°	739.7	735.5	732.1	727.9	719.4	711.7	705.8	699.0	695.6	690.5	688.0
30°	728.7	723.6	718.5	715.1	705.8	697.3	688.0	682.1	677.0	671.0	666.8
32.5°	715.1	710.1	705.0	699.9	691.4	681.2	673.6	664.2	658.3	651.5	646.4
35°	701.6	694.8	689.7	682.9	675.3	663.4	654.1	644.7	637.1	629.5	623.5
37.5°	686.3	681.2	673.6	667.6	658.3	646.4	636.2	624.4	617.6	607.4	599.8
40°	671.9	665.9	658.3	650.7	641.3	627.8	616.7	603.2	595.5	583.7	576.0
42.5°	657.5	649.0	641.3	632.9	622.7	609.9	596.4	582.8	572.6	561.6	550.6
45°	641.3	632.0	622.7	613.3	603.2	590.4	576.0	561.6	548.9	538.7	525.1
47.5°	624.4	615.0	604.0	593.8	582.8	570.1	554.8	539.5	526.0	514.1	499.7
50°	607.4	598.1	586.2	575.2	562.4	549.7	533.6	515.8	501.4	486.1	473.4
52.5°	589.6	580.3	569.2	554.8	541.2	528.5	511.5	492.9	476.8	464.0	447.9
55°	571.8	562.4	549.7	535.3	521.7	505.6	489.5	470.8	453.0	437.7	421.6
57.5°	553.1	544.6	530.2	518.3	501.4	484.4	467.4	449.6	430.1	412.3	393.6
60°	534.4	525.1	511.5	497.1	480.2	463.2	445.4	425.9	405.5	386.0	369.0
62.5°	517.5	505.6	492.9	477.6	459.8	443.7	423.3	402.1	381.7	361.4	341.0
65°	498.0	485.2	473.4	458.1	439.4	420.8	400.4	379.2	357.1	335.1	314.7
67.5°	478.5	465.7	453.0	437.7	418.2	398.7	377.5	356.3	331.7	310.5	286.7
70°	458.9	448.8	432.6	416.5	398.7	377.5	356.3	333.4	307.9	285.0	260.4
72.5°	439.4	429.3	413.1	396.2	379.2	357.1	334.2	311.3	287.6	261.3	235.0
75°	420.8	408.0	393.6	377.5	359.7	336.8	313.9	290.1	262.1	237.5	210.4
77.5°	403.0	391.1	376.7	358.8	339.3	317.3	293.5	268.9	240.9	214.6	184.9
80°	383.4	371.6	357.1	339.3	319.8	298.6	273.2	247.7	220.6	191.7	161.2
82.5°	364.8	353.8	337.6	321.5	300.3	279.1	253.7	228.2	199.4	171.4	141.7
85°	345.3	334.2	319.0	302.0	281.6	258.7	235.0	209.5	180.7	151.9	122.2
87.5°	328.3	315.6	300.3	283.3	263.0	240.9	218.0	190.9	162.9	134.9	104.3
90°	310.5	298.6	283.3	266.4	246.0	224.0	200.2	174.8	147.6	118.8	89.9
92.5°	295.2	282.5	268.1	251.1	230.7	209.5	185.8	160.3	134.0	106.0	78.0
95°	279.9	267.2	253.7	236.7	216.3	195.1	171.4	146.8	121.3	94.2	67.9
97.5°	263.0	252.0	238.4	222.3	201.9	181.5	158.6	134.9	110.3	84.0	59.4
100°	249.4	236.7	224.0	207.0	188.3	168.8	145.9	123.0	99.3	74.7	51.7
102.5°	234.1	222.3	209.5	193.4	174.8	155.2	134.0	112.0	89.9	67.0	45.0
105°	219.7	208.7	195.1	179.8	162.0	143.4	123.0	102.6	81.4	59.4	39.9
107.5°	205.3	194.3	181.5	167.1	150.2	131.5	112.8	92.5	73.0	53.4	35.6
110°	190.9	180.7	168.8	154.4	138.3	121.3	103.5	84.8	65.3	47.5	31.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	178.1	168.0	156.1	142.5	127.2	111.1	94.2	76.3	58.5	42.4	27.1
115°	165.4	156.1	144.2	132.3	117.1	101.8	85.7	68.7	52.6	38.2	23.8
117.5°	152.7	143.4	132.3	120.5	106.9	92.5	77.2	61.1	47.5	33.9	21.2
120°	140.0	131.5	121.3	110.3	98.4	84.0	68.7	55.1	42.4	29.7	18.7
122.5°	128.1	120.5	111.1	101.0	88.2	74.7	61.9	50.1	38.2	26.3	15.3
125°	117.1	109.4	101.0	90.8	78.9	67.0	56.0	45.0	33.1	22.9	12.7
127.5°	106.0	98.4	89.9	80.6	71.3	60.2	50.1	39.9	29.7	20.4	11.0
130°	95.0	88.2	80.6	73.0	63.6	53.4	45.0	34.8	25.4	16.1	9.3
132.5°	84.0	78.9	72.1	64.5	56.0	48.4	39.0	30.5	22.1	14.4	8.5
135°	74.7	69.6	63.6	56.8	50.1	42.4	33.9	26.3	18.7	11.9	6.8
137.5°	66.2	61.9	56.0	50.1	44.1	36.5	29.7	22.1	15.3	10.2	5.1
140°	58.5	54.3	49.2	43.3	38.2	31.4	24.6	17.8	13.6	8.5	4.2
142.5°	50.9	46.7	42.4	37.3	32.2	26.3	20.4	15.3	11.0	6.8	4.2
145°	43.3	39.9	35.6	31.4	26.3	21.2	17.0	12.7	8.5	5.1	3.4
147.5°	35.6	33.1	28.8	25.4	21.2	17.0	13.6	10.2	6.8	4.2	2.5
150°	28.8	26.3	22.9	19.5	17.0	13.6	11.0	7.6	5.1	4.2	2.5
152.5°	22.1	20.4	17.8	16.1	13.6	10.2	7.6	5.9	4.2	3.4	1.7
155°	17.8	16.1	14.4	11.9	10.2	7.6	5.9	4.2	3.4	2.5	1.7
157.5°	12.7	11.9	10.2	8.5	6.8	5.1	4.2	4.2	2.5	1.7	0.8
160°	8.5	7.6	6.8	5.1	4.2	4.2	3.4	2.5	1.7	1.7	0.8
162.5°	5.1	4.2	4.2	4.2	3.4	3.4	2.5	1.7	1.7	0.8	0.8
165°	3.4	3.4	3.4	2.5	2.5	2.5	1.7	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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	805.1	802.5	805.9	811.9	812.7	811.9	810.2	812.7	816.1	815.2	809.3
5°	803.4	800.0	803.4	809.3	809.3	808.5	807.6	810.2	813.5	812.7	807.6
7.5°	798.3	794.9	798.3	803.4	804.2	802.5	802.5	805.1	808.5	807.6	803.4
10°	791.5	788.1	789.8	795.7	797.4	795.7	795.7	798.3	802.5	801.7	796.6
12.5°	781.3	778.8	780.5	785.6	787.2	786.4	785.6	788.9	793.2	793.2	788.1
15°	770.3	766.9	768.6	774.5	775.4	773.7	774.5	777.1	782.2	782.2	777.9
17.5°	757.6	753.3	755.9	760.1	761.0	761.0	761.0	764.3	770.3	769.4	766.0
20°	743.1	737.2	738.9	743.1	744.8	744.8	744.8	750.8	755.0	755.0	751.6
22.5°	726.2	721.9	721.9	726.2	728.7	727.9	727.9	733.0	738.9	738.0	738.0
25°	706.7	703.3	701.6	706.7	707.5	708.4	710.1	715.1	721.9	721.9	722.8
27.5°	686.3	682.9	682.1	686.3	687.1	688.0	689.7	695.6	702.4	703.3	705.0
30°	666.8	661.7	660.0	663.4	665.1	665.9	665.9	675.3	681.2	683.8	687.1
32.5°	643.9	638.8	634.6	640.5	641.3	643.0	643.9	653.2	660.0	664.2	669.3
35°	621.0	612.5	610.8	615.0	616.7	617.6	619.3	629.5	638.8	642.2	649.0
37.5°	595.5	589.6	584.5	588.7	590.4	591.3	596.4	605.7	615.0	620.1	626.9
40°	571.8	564.1	559.9	562.4	564.1	565.0	570.9	581.1	592.1	598.1	606.6
42.5°	545.5	535.3	531.9	534.4	535.3	537.8	542.9	556.5	567.5	576.0	582.8
45°	519.2	511.5	503.9	506.5	507.3	509.0	516.6	531.1	542.9	553.1	560.7
47.5°	492.0	482.7	475.1	476.8	480.2	481.0	489.5	506.5	517.5	528.5	538.7
50°	464.9	452.2	446.2	446.2	447.9	452.2	463.2	480.2	492.0	504.8	515.8
52.5°	436.9	425.0	418.2	419.1	420.8	425.9	436.0	453.0	466.6	480.2	493.7
55°	408.9	396.2	389.4	387.7	389.4	396.2	408.0	425.9	439.4	455.6	470.0
57.5°	380.9	365.6	359.7	357.1	358.8	367.3	379.2	397.9	414.8	430.1	447.1
60°	350.4	338.5	328.3	322.4	326.6	337.6	350.4	369.9	387.7	404.7	423.3
62.5°	324.1	308.8	297.8	291.8	296.1	305.4	323.2	341.9	361.4	380.9	399.6
65°	294.4	279.1	266.4	260.4	264.7	275.7	293.5	313.9	335.1	354.6	376.7
67.5°	265.5	249.4	234.1	228.2	233.3	245.2	264.7	287.6	310.5	330.8	354.6
70°	237.5	219.7	203.6	199.4	202.8	218.9	237.5	260.4	284.2	307.9	332.5
72.5°	212.1	190.0	173.1	168.0	172.2	190.0	211.2	235.0	260.4	285.9	312.2
75°	182.4	162.0	143.4	137.4	142.5	158.6	184.9	210.4	237.5	264.7	289.3
77.5°	158.6	134.9	115.4	106.0	114.5	134.9	160.3	187.5	215.5	243.5	271.5
80°	134.0	109.4	88.2	78.0	87.4	109.4	134.9	164.6	196.0	224.0	249.4
82.5°	112.0	85.7	63.6	52.6	62.8	87.4	115.4	145.1	175.6	203.6	233.3
85°	91.6	64.5	41.6	29.7	44.1	66.2	95.9	126.4	157.8	186.6	215.5
87.5°	74.7	48.4	25.4	12.7	27.1	51.7	79.7	110.3	141.7	170.5	197.7
90°	61.1	34.8	13.6	1.7	16.1	39.0	66.2	95.9	125.6	155.2	182.4
92.5°	50.1	26.3	7.6	0.8	10.2	31.4	56.8	84.8	113.7	142.5	168.8
95°	41.6	20.4	5.1	0.8	7.6	24.6	48.4	75.5	102.6	130.6	156.9
97.5°	35.6	17.0	4.2	0.8	5.9	21.2	41.6	67.0	93.3	119.6	145.1
100°	30.5	13.6	3.4	0.8	5.1	17.8	36.5	59.4	84.0	109.4	134.0
102.5°	26.3	11.0	2.5	0.8	4.2	15.3	32.2	53.4	75.5	100.1	123.9
105°	22.9	9.3	2.5	0.8	3.4	13.6	28.8	47.5	69.6	91.6	114.5
107.5°	19.5	7.6	1.7	0.8	2.5	11.0	25.4	43.3	62.8	84.0	105.2
110°	17.0	6.8	1.7	0.8	2.5	10.2	22.1	39.0	56.8	76.3	96.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.4	5.1	1.7	0.8	1.7	8.5	19.5	34.8	51.7	69.6	89.1
115°	12.7	4.2	0.8	0.8	1.7	7.6	17.8	31.4	46.7	63.6	81.4
117.5°	10.2	3.4	0.8	0.8	0.8	5.9	15.3	28.0	42.4	58.5	74.7
120°	8.5	3.4	0.8	0.8	0.8	5.1	13.6	24.6	38.2	52.6	67.9
122.5°	7.6	2.5	0.8	0.8	0.8	4.2	11.9	22.1	33.9	47.5	61.9
125°	6.8	2.5	0.8	0.8	0.8	3.4	10.2	19.5	30.5	42.4	56.0
127.5°	5.1	2.5	0.8	0.8	0.8	2.5	9.3	17.0	27.1	38.2	50.1
130°	4.2	1.7	0.8	0.8	0.8	2.5	7.6	15.3	23.8	33.9	45.0
132.5°	3.4	1.7	0.8	0.8	0.8	1.7	5.9	11.9	20.4	29.7	39.9
135°	3.4	1.7	0.8	0.8	0.8	1.7	4.2	10.2	17.0	25.4	33.9
137.5°	3.4	0.8	0.8	0.8	0.8	1.7	3.4	7.6	13.6	20.4	28.0
140°	2.5	0.8	0.8	0.8	0.8	0.8	2.5	5.9	11.0	17.0	23.8
142.5°	2.5	0.8	0.8	0.8	0.8	0.8	2.5	4.2	8.5	13.6	18.7
145°	1.7	0.8	0.8	0.8	0.8	0.8	1.7	3.4	6.8	10.2	15.3
147.5°	1.7	0.8	0.8	0.8	0.8	0.8	1.7	2.5	5.1	8.5	11.9
150°	1.7	0.8	0.8	0.8	0.8	0.8	1.7	2.5	3.4	5.9	9.3
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5	4.2	5.9
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	3.4	4.2
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5	3.4
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	806.8	800.8	802.5	801.7	803.4	805.9	805.9	805.1	805.1	803.4	801.7
5°	805.1	799.1	801.7	800.8	802.5	805.1	805.1	804.2	804.2	801.7	800.8
7.5°	800.0	795.7	797.4	797.4	799.1	801.7	801.7	800.8	800.8	798.3	797.4
10°	794.9	789.8	792.3	792.3	794.0	797.4	797.4	796.6	796.6	794.0	793.2
12.5°	786.4	781.3	785.6	786.4	788.1	791.5	790.6	790.6	790.6	788.1	787.2
15°	776.2	772.8	777.1	777.9	780.5	784.7	784.7	784.7	784.7	782.2	781.3
17.5°	765.2	762.6	766.9	768.6	772.0	776.2	776.2	777.1	777.9	776.2	775.4
20°	752.5	750.8	755.0	758.4	763.5	767.7	769.4	770.3	772.0	770.3	769.4
22.5°	738.0	738.0	744.0	747.4	753.3	757.6	760.1	762.6	764.3	762.6	761.8
25°	721.9	724.5	730.4	736.3	743.1	747.4	749.9	753.3	755.0	754.2	753.3
27.5°	706.7	710.1	717.7	723.6	729.6	736.3	738.9	743.1	744.8	744.8	744.0
30°	688.8	693.9	702.4	709.2	716.8	723.6	727.0	731.3	733.8	732.1	733.0
32.5°	671.9	680.4	687.1	694.8	703.3	710.1	714.3	719.4	721.9	721.1	721.9
35°	653.2	661.7	671.0	678.7	688.8	695.6	701.6	705.8	709.2	708.4	708.4
37.5°	632.9	643.9	653.2	663.4	672.7	680.4	686.3	691.4	694.8	694.8	694.8
40°	613.3	625.2	634.6	646.4	658.3	665.1	671.9	677.0	680.4	681.2	682.1
42.5°	592.1	604.9	615.9	628.6	640.5	649.0	656.6	662.5	665.9	667.6	666.8
45°	572.6	584.5	597.2	611.6	622.7	631.2	640.5	647.3	650.7	651.5	652.4
47.5°	550.6	564.1	578.6	593.0	604.0	615.0	623.5	630.3	633.7	636.2	636.2
50°	529.4	543.8	559.9	575.2	587.0	598.1	606.6	614.2	618.4	620.1	621.0
52.5°	509.8	523.4	540.4	555.7	567.5	578.6	589.6	598.1	602.3	604.0	604.0
55°	486.1	503.1	521.7	536.1	548.9	561.6	572.6	581.1	585.3	587.9	589.6
57.5°	464.0	481.9	501.4	516.6	531.9	543.8	554.0	565.0	568.4	571.8	572.6
60°	442.8	460.6	479.3	496.3	511.5	524.3	536.1	545.5	551.4	553.1	554.8
62.5°	420.8	439.4	458.9	475.9	492.0	507.3	518.3	526.8	533.6	536.1	537.8
65°	399.6	419.1	438.6	456.4	473.4	488.6	499.7	508.1	514.9	519.2	520.0
67.5°	376.7	397.9	418.2	436.9	453.9	470.0	481.0	489.5	496.3	501.4	502.2
70°	355.5	377.5	397.9	418.2	435.2	451.3	463.2	471.7	479.3	482.7	484.4
72.5°	335.1	358.0	379.2	399.6	416.5	432.6	445.4	453.9	461.5	465.7	466.6
75°	315.6	338.5	361.4	380.9	398.7	414.8	427.6	436.9	443.7	447.9	449.6
77.5°	296.1	319.8	342.7	362.2	380.9	397.0	408.0	419.1	425.9	431.0	431.0
80°	276.6	301.2	324.9	344.4	363.1	377.5	390.2	401.3	408.0	413.1	413.1
82.5°	259.6	283.3	306.2	325.8	344.4	360.5	373.3	383.4	391.1	394.5	395.3
85°	240.1	266.4	287.6	308.8	326.6	341.9	354.6	365.6	372.4	375.8	377.5
87.5°	224.0	249.4	272.3	291.0	308.8	324.1	338.5	347.8	354.6	358.8	360.5
90°	208.7	233.3	256.2	274.9	293.5	307.9	321.5	330.8	338.5	341.9	343.6
92.5°	195.1	219.7	241.8	260.4	278.3	294.4	307.1	316.4	323.2	326.6	329.2
95°	182.4	206.1	227.4	247.7	264.7	279.1	292.7	302.0	309.6	312.2	314.7
97.5°	169.7	192.6	213.8	233.3	251.1	264.7	277.4	286.7	292.7	296.9	299.5
100°	158.6	180.7	201.1	219.7	236.7	249.4	263.0	271.5	277.4	280.8	284.2
102.5°	146.8	168.8	188.3	206.1	224.0	235.8	248.6	257.0	262.1	268.1	268.1
105°	136.6	156.9	176.5	193.4	208.7	223.1	234.1	242.6	248.6	252.8	252.8
107.5°	125.6	145.9	164.6	182.4	196.8	210.4	220.6	228.2	235.0	237.5	240.1
110°	117.1	134.9	153.5	170.5	184.1	196.8	207.0	215.5	221.4	224.0	225.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	106.9	125.6	142.5	158.6	172.2	184.1	194.3	201.1	207.0	210.4	211.2
115°	98.4	116.2	131.5	146.8	161.2	171.4	180.7	187.5	193.4	196.0	197.7
117.5°	90.8	106.9	122.2	134.9	148.5	159.5	168.8	174.8	179.8	183.2	184.9
120°	83.1	98.4	112.0	124.7	137.4	147.6	156.1	162.0	168.0	170.5	170.5
122.5°	75.5	89.9	102.6	114.5	126.4	135.7	145.1	150.2	155.2	157.8	157.8
125°	68.7	82.3	94.2	105.2	116.2	124.7	132.3	138.3	143.4	145.1	145.1
127.5°	61.9	74.7	85.7	95.9	105.2	113.7	121.3	127.2	131.5	133.2	133.2
130°	56.0	67.0	77.2	87.4	96.7	103.5	111.1	116.2	118.8	121.3	122.2
132.5°	50.1	60.2	69.6	78.0	87.4	94.2	100.1	105.2	107.7	110.3	111.1
135°	44.1	53.4	61.9	70.4	78.0	84.8	89.9	94.2	97.6	99.3	100.1
137.5°	37.3	47.5	55.1	61.9	70.4	75.5	81.4	84.0	87.4	89.1	89.1
140°	31.4	39.0	47.5	54.3	61.1	66.2	71.3	75.5	78.0	78.9	78.9
142.5°	25.4	32.2	39.0	47.5	53.4	57.7	62.8	66.2	67.9	68.7	69.6
145°	20.4	25.4	31.4	39.0	45.8	50.9	53.4	56.8	58.5	59.4	60.2
147.5°	15.3	20.4	25.4	30.5	37.3	42.4	45.0	48.4	50.1	50.9	50.9
150°	11.9	15.3	18.7	23.8	28.8	34.8	38.2	40.7	41.6	42.4	42.4
152.5°	8.5	11.9	14.4	17.8	21.2	26.3	31.4	33.1	33.9	34.8	34.8
155°	5.9	8.5	10.2	12.7	15.3	19.5	23.8	26.3	27.1	28.0	28.0
157.5°	4.2	5.9	6.8	9.3	11.0	12.7	16.1	20.4	21.2	21.2	21.2
160°	2.5	3.4	4.2	5.9	6.8	8.5	10.2	12.7	15.3	15.3	15.3
162.5°	1.7	2.5	2.5	3.4	3.4	5.1	5.9	6.8	9.3	10.2	10.2
165°	0.8	1.7	1.7	1.7	1.7	1.7	2.5	2.5	4.2	5.1	5.1
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	802.5	804.2	803.4	803.4	803.4	805.1	803.4	795.7	797.4	799.1	800.8
5°	801.7	802.5	802.5	801.7	801.7	803.4	801.7	794.0	795.7	797.4	798.3
7.5°	798.3	799.1	799.1	799.1	798.3	800.0	797.4	790.6	790.6	792.3	793.2
10°	794.0	795.7	794.9	794.0	794.0	794.0	792.3	784.7	784.7	785.6	786.4
12.5°	788.9	788.9	788.9	788.1	787.2	787.2	785.6	777.9	777.1	778.8	777.9
15°	782.2	783.9	782.2	781.3	779.6	779.6	777.1	769.4	767.7	768.6	767.7
17.5°	776.2	777.1	775.4	773.7	772.0	771.1	768.6	760.1	757.6	758.4	756.7
20°	770.3	770.3	768.6	766.9	764.3	761.8	758.4	749.9	745.7	745.7	742.3
22.5°	762.6	762.6	761.0	758.4	755.9	752.5	749.1	740.6	733.8	732.1	729.6
25°	754.2	753.3	752.5	749.9	744.8	741.4	738.0	728.7	721.1	717.7	713.4
27.5°	744.0	744.0	741.4	738.9	733.8	729.6	725.3	716.8	706.7	702.4	696.5
30°	733.0	733.0	730.4	727.0	721.9	716.8	711.7	701.6	691.4	685.5	678.7
32.5°	721.9	721.1	718.5	715.1	710.1	702.4	698.2	688.0	676.1	669.3	660.0
35°	708.4	707.5	705.0	700.7	693.9	688.0	681.2	671.9	658.3	649.8	639.6
37.5°	694.8	693.9	692.2	686.3	679.5	672.7	664.2	654.9	642.2	631.2	621.0
40°	681.2	680.4	677.0	672.7	664.2	655.8	647.3	637.9	624.4	611.6	600.6
42.5°	666.8	665.9	661.7	656.6	647.3	638.8	628.6	618.4	604.9	589.6	578.6
45°	652.4	650.7	646.4	640.5	630.3	621.0	610.8	598.9	585.3	570.9	556.5
47.5°	637.1	634.6	630.3	621.8	613.3	603.2	591.3	578.6	565.0	548.9	533.6
50°	620.1	618.4	613.3	605.7	595.5	585.3	571.8	559.0	542.9	527.7	509.0
52.5°	604.0	600.6	596.4	587.9	577.7	566.7	552.3	537.0	520.9	506.5	486.9
55°	587.0	585.3	579.4	572.6	559.9	547.2	533.6	517.5	499.7	482.7	464.0
57.5°	570.9	567.5	562.4	553.1	542.1	529.4	514.9	498.0	478.5	460.6	440.3
60°	554.8	549.7	543.8	535.3	523.4	509.8	494.6	476.8	457.2	437.7	416.5
62.5°	537.0	532.8	526.0	517.5	505.6	491.2	475.1	456.4	437.7	417.4	394.5
65°	519.2	514.9	508.1	499.7	487.8	471.7	454.7	436.0	414.8	395.3	370.7
67.5°	501.4	497.1	489.5	480.2	468.3	453.0	435.2	415.7	394.5	373.3	347.8
70°	483.5	478.5	471.7	461.5	449.6	433.5	415.7	395.3	374.1	351.2	325.8
72.5°	465.7	461.5	453.0	443.7	431.0	414.8	397.0	376.7	354.6	330.8	305.4
75°	447.9	442.8	436.9	425.9	412.3	397.0	378.4	358.0	334.2	311.3	285.0
77.5°	430.1	425.9	418.2	407.2	394.5	378.4	359.7	339.3	315.6	291.8	263.8
80°	412.3	407.2	401.3	391.1	376.7	360.5	341.0	320.7	296.9	272.3	244.3
82.5°	394.5	389.4	382.6	372.4	358.8	342.7	324.1	302.0	278.3	252.8	226.5
85°	376.7	372.4	364.8	354.6	340.2	324.1	305.4	285.9	260.4	235.0	208.7
87.5°	358.8	354.6	347.0	336.8	323.2	307.1	288.4	268.1	243.5	219.7	190.9
90°	341.9	338.5	330.8	320.7	307.1	291.0	274.0	252.0	228.2	204.4	177.3
92.5°	326.6	323.2	316.4	306.2	294.4	276.6	259.6	238.4	214.6	190.0	163.7
95°	313.0	308.8	302.0	292.7	278.3	263.0	246.0	224.8	201.9	177.3	151.9
97.5°	297.8	293.5	286.7	276.6	264.7	248.6	231.6	211.2	188.3	165.4	140.0
100°	282.5	278.3	270.6	262.1	250.3	234.1	218.0	197.7	176.5	154.4	129.8
102.5°	267.2	263.0	256.2	247.7	235.8	221.4	205.3	185.8	164.6	142.5	119.6
105°	252.8	248.6	241.8	233.3	222.3	207.8	190.9	173.9	153.5	132.3	110.3
107.5°	238.4	234.1	228.2	219.7	208.7	195.1	179.0	161.2	142.5	122.2	101.0
110°	224.0	220.6	213.8	206.1	195.1	181.5	167.1	150.2	131.5	112.8	92.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	210.4	207.0	200.2	191.7	182.4	169.7	155.2	139.1	121.3	103.5	84.0
115°	196.8	192.6	186.6	179.0	169.7	157.8	144.2	129.8	112.0	95.0	77.2
117.5°	183.2	179.8	173.9	166.3	157.8	145.9	133.2	119.6	102.6	86.5	70.4
120°	169.7	167.1	161.2	154.4	145.9	134.9	123.0	109.4	94.2	78.9	63.6
122.5°	156.9	154.4	148.5	142.5	134.0	123.9	112.8	100.1	86.5	72.1	58.5
125°	145.1	141.7	136.6	130.6	123.0	113.7	102.6	90.8	78.0	65.3	52.6
127.5°	132.3	129.8	126.4	119.6	112.0	103.5	93.3	83.1	71.3	59.4	47.5
130°	122.2	118.8	114.5	109.4	102.6	94.2	84.8	74.7	64.5	53.4	41.6
132.5°	110.3	106.9	103.5	98.4	92.5	84.8	76.3	67.0	57.7	47.5	37.3
135°	99.3	96.7	93.3	88.2	82.3	76.3	67.9	59.4	50.9	41.6	33.1
137.5°	89.1	86.5	83.1	79.7	73.8	67.9	60.2	52.6	45.0	36.5	28.8
140°	78.9	77.2	73.8	70.4	65.3	59.4	52.6	45.8	39.0	31.4	24.6
142.5°	68.7	67.0	64.5	61.1	56.8	51.7	45.8	39.9	33.1	27.1	21.2
145°	59.4	58.5	56.0	52.6	49.2	44.1	39.0	33.9	28.0	22.9	17.0
147.5°	50.1	49.2	47.5	45.0	41.6	37.3	33.1	28.0	23.8	18.7	13.6
150°	41.6	40.7	39.9	36.5	34.8	30.5	27.1	22.9	19.5	14.4	11.0
152.5°	33.9	33.9	32.2	29.7	28.0	24.6	22.1	18.7	15.3	11.9	8.5
155°	27.1	26.3	25.4	23.8	22.1	19.5	17.0	14.4	11.9	8.5	5.9
157.5°	21.2	20.4	19.5	17.8	16.1	15.3	12.7	10.2	7.6	5.9	4.2
160°	15.3	14.4	13.6	12.7	11.9	10.2	8.5	6.8	5.1	3.4	2.5
162.5°	10.2	9.3	9.3	8.5	7.6	5.9	5.1	4.2	3.4	2.5	1.7
165°	5.1	5.1	4.2	4.2	3.4	2.5	2.5	2.5	1.7	1.7	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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	804.2	804.2	804.2	804.2	804.2	804.2	804.2
2.5°	800.0	800.0	803.4	802.5	800.0	805.1	811.0
5°	797.4	797.4	800.0	800.0	797.4	802.5	807.6
7.5°	793.2	792.3	794.9	794.9	791.5	795.7	801.7
10°	785.6	784.7	787.2	787.2	783.9	788.1	793.2
12.5°	777.1	775.4	777.9	777.1	773.7	777.9	783.0
15°	766.0	765.2	766.9	765.2	761.8	766.0	771.1
17.5°	755.0	752.5	753.3	753.3	747.4	751.6	755.9
20°	740.6	737.2	738.0	737.2	733.0	735.5	740.6
22.5°	726.2	721.1	721.1	720.2	715.1	718.5	722.8
25°	708.4	702.4	702.4	701.6	695.6	698.2	702.4
27.5°	690.5	684.6	682.1	681.2	675.3	675.3	681.2
30°	671.9	663.4	661.7	659.2	653.2	653.2	658.3
32.5°	654.1	642.2	638.8	635.4	629.5	628.6	634.6
35°	630.3	621.0	615.0	611.6	604.9	603.2	608.3
37.5°	610.8	598.9	590.4	586.2	579.4	576.9	583.7
40°	589.6	576.9	565.8	563.3	553.1	549.7	555.7
42.5°	565.8	552.3	541.2	536.1	528.5	525.1	526.0
45°	542.1	527.7	515.8	509.0	501.4	495.4	498.8
47.5°	517.5	504.8	490.3	480.2	470.8	466.6	468.3
50°	492.9	477.6	464.0	453.0	442.0	436.9	440.3
52.5°	468.3	452.2	436.9	425.0	412.3	407.2	408.0
55°	444.5	427.6	409.7	397.0	385.1	377.5	375.8
57.5°	420.8	402.1	383.4	369.0	353.8	347.0	344.4
60°	395.3	375.8	356.3	339.3	323.2	315.6	312.2
62.5°	371.6	350.4	328.3	310.5	294.4	284.2	281.6
65°	348.7	324.1	302.0	281.6	263.8	252.8	249.4
67.5°	324.1	298.6	274.9	252.8	235.8	221.4	219.7
70°	301.2	274.0	247.7	224.8	206.1	191.7	184.9
72.5°	278.3	250.3	223.1	198.5	174.8	161.2	156.1
75°	256.2	227.4	198.5	173.1	146.8	130.6	125.6
77.5°	235.8	206.1	175.6	147.6	123.0	102.6	95.9
80°	216.3	185.8	153.5	124.7	98.4	76.3	68.7
82.5°	196.0	167.1	134.0	103.5	76.3	53.4	44.1
85°	178.1	149.3	116.2	85.7	58.5	33.9	23.8
87.5°	163.7	132.3	102.6	72.1	44.1	19.5	6.8
90°	149.3	118.8	89.1	59.4	33.1	11.0	0.8
92.5°	136.6	107.7	78.0	50.9	25.4	7.6	0.8
95°	124.7	96.7	68.7	42.4	20.4	5.1	0.8
97.5°	113.7	87.4	61.1	36.5	17.0	4.2	0.8
100°	104.3	78.9	54.3	32.2	14.4	3.4	0.8
102.5°	95.0	71.3	48.4	28.0	12.7	2.5	0.8
105°	87.4	64.5	43.3	25.4	11.0	2.5	0.8
107.5°	79.7	58.5	39.0	22.1	9.3	1.7	0.8
110°	72.1	53.4	34.8	19.5	8.5	1.7	0.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-37SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	66.2	48.4	31.4	17.8	6.8	1.7	0.8
115°	60.2	43.3	28.0	15.3	5.9	0.8	0.8
117.5°	54.3	39.0	24.6	13.6	5.1	0.8	0.8
120°	49.2	34.8	22.1	11.9	4.2	0.8	0.8
122.5°	44.1	31.4	19.5	10.2	3.4	0.8	0.8
125°	39.9	28.0	17.0	8.5	2.5	0.8	0.8
127.5°	35.6	24.6	15.3	7.6	2.5	0.8	0.8
130°	31.4	22.1	12.7	5.9	1.7	0.8	0.8
132.5°	28.0	18.7	11.0	5.1	1.7	0.8	0.8
135°	24.6	16.1	9.3	3.4	1.7	0.8	0.8
137.5°	21.2	13.6	7.6	2.5	0.8	0.8	0.8
140°	17.8	11.9	5.9	2.5	0.8	0.8	0.8
142.5°	15.3	9.3	4.2	1.7	0.8	0.8	0.8
145°	11.9	7.6	3.4	1.7	0.8	0.8	0.8
147.5°	9.3	5.9	2.5	1.7	0.8	0.8	0.8
150°	6.8	4.2	2.5	0.8	0.8	0.8	0.8
152.5°	5.1	3.4	1.7	0.8	0.8	0.8	0.8
155°	3.4	2.5	1.7	0.8	0.8	0.8	0.8
157.5°	2.5	1.7	0.8	0.8	0.8	0.8	0.8
160°	1.7	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)