

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: FAIL-SAFE

Report Number: P27272

Luminaire Tested: **MPBL-2-LD4-UNV-1DN-LO-40**

Test Date: 01/11/16

Test Information

Test Method: LM-79-08
Report Number: P27272
Test Lab: INNOVATION CENTER-P2
Test Date: 01/11/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-2-LD4-UNV-1DN-LO-40
Description: FAILSAFE MPBL LED PATIENT BED LIGHT
Light Source: (42) 4000K NICHIA LEDS
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVERS
OT25W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1180.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.18 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.42' x H: 0.29')
CIE Type: Direct

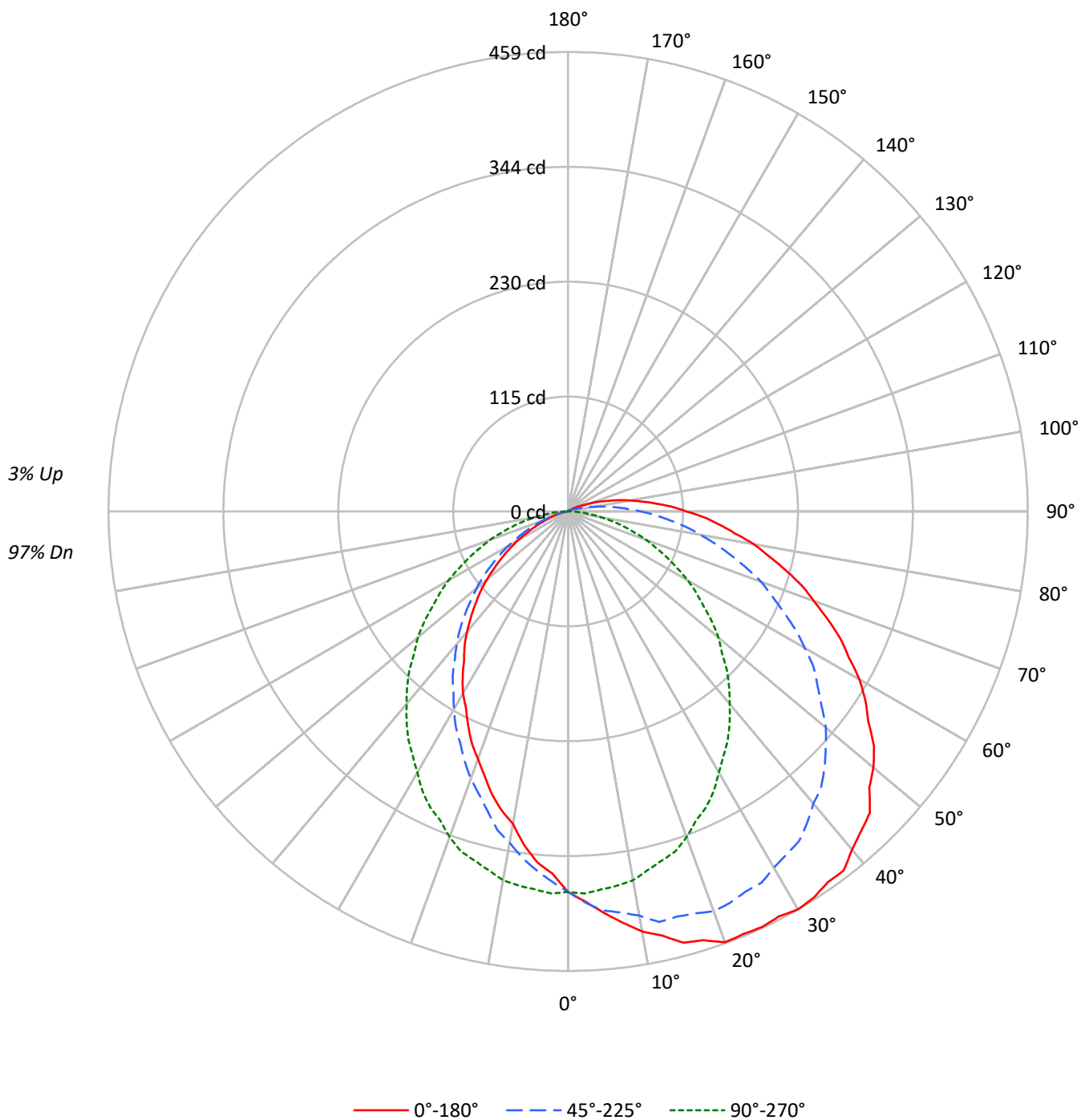
Input Watts (W): 12.9
Input Voltage (V): 120.03
Input Current (Ain): 0.10831
Voltage Rise (V): NR
Power Factor: 0.9917
Total Harmonic Distortion (THDi): 7.32%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97
1	107	101	97	92	104	99	94	90	94	90	87	89	86	84	85	83	81	85	83	78
2	97	88	81	74	94	86	79	73	81	76	71	78	73	69	74	70	67	74	70	64
3	88	77	68	61	85	75	67	61	71	65	59	68	62	58	65	60	56	65	60	54
4	80	68	59	52	78	66	58	51	63	56	50	61	54	49	58	53	48	58	53	46
5	74	61	51	45	71	59	51	44	57	49	43	54	48	43	52	46	42	52	46	39
6	68	55	45	39	66	53	45	38	51	44	38	49	42	37	47	41	37	47	41	34
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	43	37	33	43	37	30
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	40	34	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	37	31	24
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	34	28	24	34	28	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4908	4908	4908
5°	4912	4852	4301
10°	4974	4782	3701
15°	5022	4646	3299
20°	5017	4516	2881
25°	4921	4350	2536
30°	4876	4141	2231
35°	4783	3977	1915
40°	4684	3771	1668
45°	4577	3571	1408
50°	4360	3355	1161
55°	4122	3075	912
60°	3923	2846	677
65°	3666	2538	452
70°	3372	2238	271
75°	3095	1842	152
80°	2814	1384	60
85°	2503	889	33



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	3.0
10°-20°	102.9	8.7
20°-30°	155.3	13.2
30°-40°	186.9	15.8
40°-50°	194.4	16.5
50°-60°	176.7	15.0
60°-70°	139.6	11.8
70°-80°	94.6	8.0
80°-90°	54.2	4.6
90°-100°	26.0	2.2
100°-110°	9.7	0.8
110°-120°	2.8	0.2
120°-130°	0.9	0.1
130°-140°	0.1	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°	294.1	24.9
0°-40°	481.1	40.8
0°-60°	852.1	72.2
0°-90°	1140.5	96.7
90°-120°	38.5	3.3
90°-150°	39.5	3.3
90°-180°	39.0	3.3
0°-180°	1180.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	380	380	380	380	380	
5°	402	400	379	360	352	39
15°	446	419	361	310	293	126
25°	458	419	326	255	236	212
35°	452	402	278	201	181	284
45°	426	362	224	146	131	326
55°	366	304	165	93	81	329
65°	300	237	109	47	37	296
75°	224	168	57	13	11	237
85°	152	102	16	2	2	131
90°	118	73	1	1	1	65
95°	89	48	1	1	1	67
105°	41	13	1	1	0	45
115°	12	2	1	1	0	13
125°	2	1	1	1	0	2
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	380	380	380	380	380	380	380	380	380	380	380
2.5°	390	389	390	389	389	389	389	392	391	392	391
5°	402	403	404	401	403	404	404	403	400	399	400
7.5°	414	414	413	415	415	413	414	411	412	408	404
10°	426	423	423	424	420	421	419	420	418	414	410
12.5°	434	433	436	432	431	429	429	427	424	420	420
15°	446	444	442	442	437	440	437	431	428	425	419
17.5°	449	448	447	448	443	442	440	438	435	431	421
20°	458	455	454	451	450	445	444	443	433	430	425
22.5°	457	455	457	453	450	446	447	444	437	429	423
25°	458	458	456	454	450	450	449	442	437	428	419
27.5°	456	460	456	455	449	450	445	441	435	426	418
30°	459	456	456	453	449	449	443	440	431	421	411
32.5°	457	457	453	449	446	442	441	433	425	420	406
35°	452	452	449	448	441	439	436	429	418	412	402
37.5°	452	445	447	441	434	433	430	421	414	403	392
40°	441	443	438	434	427	426	421	414	404	396	381
42.5°	433	433	430	426	421	416	413	405	398	384	374
45°	426	422	419	417	411	408	404	397	384	373	362
47.5°	408	411	410	403	400	397	390	383	372	359	349
50°	398	396	396	392	384	381	378	368	359	349	336
52.5°	385	384	379	377	372	368	365	354	348	334	319
55°	366	369	366	358	358	353	347	338	329	319	304
57.5°	352	352	351	346	340	337	332	323	314	304	291
60°	336	335	331	329	322	319	316	307	297	286	273
62.5°	316	316	313	312	306	302	298	292	279	267	256
65°	300	299	297	292	288	285	280	272	261	250	237
67.5°	280	278	277	274	266	264	262	254	244	235	220
70°	261	260	259	256	249	246	243	238	226	215	205
72.5°	244	242	241	235	231	228	226	218	209	198	186
75°	224	222	221	217	212	211	206	198	189	179	168
77.5°	205	206	203	201	194	192	188	180	172	162	151
80°	188	186	186	181	176	173	170	164	155	145	134
82.5°	168	168	167	162	158	155	153	146	138	129	119
85°	152	151	150	146	141	140	136	130	121	112	102
87.5°	136	134	133	130	125	122	120	113	105	97	87
90°	118	119	117	113	109	106	104	97	89	82	73
92.5°	104	103	102	99	94	92	89	82	75	68	59
95°	89	88	87	84	80	77	75	69	62	55	48
97.5°	75	75	73	71	67	64	62	57	50	44	37
100°	63	62	61	59	55	53	50	45	40	34	27
102.5°	52	51	50	47	44	42	40	35	30	25	20
105°	41	41	39	37	34	32	31	27	22	17	13
107.5°	32	31	30	28	26	24	23	19	15	12	8
110°	24	23	22	21	18	17	16	13	10	8	6



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	17	17	16	15	13	12	11	9	7	5	4
115°	12	12	11	10	9	8	8	6	5	4	2
117.5°	9	8	8	7	6	6	5	4	3	2	1
120°	6	6	5	5	4	4	3	3	2	1	1
122.5°	4	4	3	3	3	2	2	2	1	1	1
125°	2	2	2	2	1	1	1	1	0	1	1
127.5°	1	1	1	1	1	0	0	0	0	1	1
130°	0	0	0	0	0	0	0	0	0	0	1
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	380	380	380	380	380	380	380	380	380	380	380
2.5°	389	390	388	389	386	385	386	384	382	382	381
5°	398	394	393	392	393	388	385	383	382	379	377
7.5°	403	400	398	393	392	392	385	385	382	377	374
10°	408	403	400	396	391	390	386	382	378	374	368
12.5°	413	408	404	400	394	391	384	380	371	367	363
15°	414	409	404	396	393	392	380	375	368	361	355
17.5°	417	407	400	391	389	386	378	369	362	356	345
20°	417	408	398	391	384	380	372	362	352	346	336
22.5°	413	405	396	387	382	378	364	353	345	334	328
25°	411	399	390	379	375	369	359	347	336	326	316
27.5°	410	394	383	372	367	359	350	338	325	315	301
30°	402	390	379	365	359	353	339	325	315	301	292
32.5°	394	380	371	357	350	345	330	317	303	289	279
35°	389	374	361	347	339	331	320	304	289	278	265
37.5°	381	368	353	338	329	320	306	293	277	265	252
40°	369	355	343	326	318	310	294	279	265	251	239
42.5°	359	344	328	315	305	299	282	266	252	238	225
45°	348	332	318	302	293	284	268	253	237	224	211
47.5°	336	320	303	286	278	270	255	239	222	208	196
50°	322	306	289	272	265	258	239	225	208	196	182
52.5°	306	291	274	260	252	241	225	210	195	181	169
55°	290	274	259	243	235	225	211	195	180	165	154
57.5°	277	261	244	228	219	211	196	180	165	152	140
60°	259	245	229	211	204	195	180	164	151	138	127
62.5°	241	227	211	196	188	179	164	149	137	123	112
65°	226	212	195	179	171	164	150	135	121	109	98
67.5°	208	194	178	163	155	149	134	121	107	95	84
70°	191	176	162	148	140	132	119	105	94	83	72
72.5°	172	160	146	132	125	118	105	91	80	69	59
75°	156	144	129	116	109	103	90	78	67	57	47
77.5°	140	127	113	101	95	87	76	65	54	45	37
80°	123	111	98	86	80	74	63	52	43	34	27
82.5°	106	96	85	72	66	61	50	40	32	24	18
85°	91	81	70	59	53	48	38	30	23	16	10
87.5°	77	67	56	47	41	36	28	20	14	8	3
90°	63	54	44	35	31	26	19	12	6	1	1
92.5°	51	42	33	25	21	17	11	5	1	1	1
95°	40	31	24	17	14	10	5	2	1	1	1
97.5°	29	23	16	10	8	5	2	1	1	1	1
100°	21	15	10	6	4	3	1	1	1	1	1
102.5°	14	9	6	3	2	2	1	1	1	1	1
105°	9	6	4	2	1	1	1	1	1	1	1
107.5°	6	4	2	1	1	1	1	1	1	1	1
110°	4	2	1	1	1	1	1	1	1	1	1



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	3	1	1	1	1	1	1	1	1	1	1
115°	2	1	1	1	1	1	1	1	1	1	1
117.5°	1	1	1	1	1	1	1	1	1	1	1
120°	1	1	1	1	1	1	1	1	1	1	1
122.5°	1	1	1	1	1	1	1	1	1	1	1
125°	1	1	1	1	1	1	1	1	1	1	1
127.5°	1	1	1	1	1	1	1	1	1	1	1
130°	1	1	1	1	1	1	1	1	1	1	1
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	380	380	380	380	380	380	380	380	380	380	380
2.5°	379	378	377	378	373	371	371	371	370	368	368
5°	376	373	370	368	367	365	361	359	360	356	354
7.5°	370	367	366	361	361	356	354	349	349	345	344
10°	362	359	354	352	349	345	342	338	336	333	330
12.5°	357	352	346	342	339	336	333	326	326	320	315
15°	348	343	336	335	330	322	321	314	310	307	304
17.5°	337	332	325	321	318	312	306	301	296	292	290
20°	329	320	313	311	306	299	293	288	284	278	275
22.5°	317	309	301	297	293	285	281	274	270	265	262
25°	304	297	287	282	279	272	266	261	255	251	248
27.5°	294	283	275	269	266	259	253	246	243	236	233
30°	280	270	262	257	254	246	239	234	228	223	220
32.5°	268	258	248	245	238	230	224	219	213	210	206
35°	254	242	234	229	224	218	210	206	201	196	193
37.5°	240	229	219	216	211	205	196	192	186	182	180
40°	227	216	206	202	197	190	184	177	173	170	165
42.5°	213	202	192	188	183	177	170	165	160	155	152
45°	200	189	178	175	169	162	155	151	146	142	140
47.5°	186	174	166	160	156	149	142	138	132	129	126
50°	170	160	151	147	143	135	129	125	119	116	113
52.5°	157	147	137	133	129	122	116	111	107	104	101
55°	143	132	124	120	115	109	103	98	93	90	88
57.5°	129	119	110	107	103	96	90	85	81	78	76
60°	116	106	97	93	90	83	77	73	69	66	64
62.5°	102	92	83	81	77	70	66	61	57	55	53
65°	88	79	71	68	65	59	54	50	47	45	43
67.5°	76	67	59	56	53	48	43	39	37	35	33
70°	64	55	48	45	42	37	33	30	28	26	24
72.5°	51	44	37	34	33	28	25	22	20	18	17
75°	40	33	27	25	23	20	17	15	13	13	12
77.5°	30	24	19	17	15	12	11	10	9	9	8
80°	20	16	11	10	9	7	7	6	6	5	5
82.5°	13	9	6	5	5	4	4	4	3	3	3
85°	5	4	3	3	3	2	2	2	2	2	2
87.5°	2	1	1	1	1	1	1	1	1	1	1
90°	1	1	1	1	1	1	1	1	1	1	1
92.5°	1	1	1	1	1	1	1	1	1	1	1
95°	1	1	1	1	1	1	1	1	1	1	1
97.5°	1	1	1	1	1	1	1	1	1	1	1
100°	1	1	1	1	1	1	1	1	1	1	1
102.5°	1	1	1	1	1	1	1	1	1	1	1
105°	1	1	1	1	1	1	1	1	1	0	0
107.5°	1	1	1	1	1	1	1	1	1	1	0
110°	1	1	1	1	1	1	1	1	1	0	0



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1	1	1	1	1	1	1	1	1	0	0
115°	1	1	1	1	1	1	1	1	1	1	1
117.5°	1	1	1	1	1	1	1	1	1	1	1
120°	1	1	1	1	1	1	1	1	1	1	0
122.5°	1	1	1	1	1	1	1	1	1	1	1
125°	1	1	1	1	1	1	1	1	1	1	1
127.5°	1	1	1	1	1	1	1	1	1	1	1
130°	1	1	1	1	1	1	1	1	1	1	1
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	380	380	380	380	380	380	380	380
2.5°	365	364	363	363	361	365	364	362
5°	352	354	352	350	348	349	348	352
7.5°	340	339	338	336	338	334	336	336
10°	327	327	323	325	321	321	321	317
12.5°	314	312	312	308	309	306	305	306
15°	302	297	297	295	293	293	292	293
17.5°	287	283	283	283	281	279	279	277
20°	272	269	267	267	265	263	263	263
22.5°	257	257	253	252	250	250	249	251
25°	246	241	242	238	237	239	237	236
27.5°	230	228	225	225	223	223	222	221
30°	217	215	213	211	212	209	209	210
32.5°	203	201	200	199	198	196	196	196
35°	190	188	186	187	184	184	183	181
37.5°	177	174	173	173	172	171	170	170
40°	163	162	160	160	159	157	157	157
42.5°	151	149	148	147	147	145	144	144
45°	137	135	134	134	132	131	131	131
47.5°	124	123	120	121	120	118	118	119
50°	111	109	109	107	107	107	107	106
52.5°	98	96	96	96	95	94	93	93
55°	86	84	83	83	82	81	82	81
57.5°	73	73	72	71	70	70	70	69
60°	62	61	60	60	59	58	58	58
62.5°	51	50	49	49	48	48	48	47
65°	41	40	39	38	39	38	38	37
67.5°	32	30	30	30	29	29	28	28
70°	23	22	22	22	22	22	22	21
72.5°	17	16	16	16	16	16	16	16
75°	12	11	11	11	11	11	11	11
77.5°	8	8	8	8	7	7	7	7
80°	5	5	5	5	4	4	4	4
82.5°	3	3	3	3	2	2	2	2
85°	2	2	2	2	2	2	2	2
87.5°	1	1	1	1	1	1	1	1
90°	1	1	1	1	1	1	1	1
92.5°	1	1	1	1	1	1	1	1
95°	1	1	1	1	1	1	1	1
97.5°	0	1	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0



TEST NUMBER: P27272

CATALOG NUMBER: MPBL-2-LD4-UNV-1DN-LO-40

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0
117.5°	1	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0
122.5°	1	0	0	0	0	0	0	0
125°	1	0	0	0	0	0	0	0
127.5°	0	1	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)