

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: P27268

Luminaire Tested: **MPBL-2-LD4-UNV-1UP-STD-40**

Test Date: 01/08/16

Test Information

Test Method: LM-79-08
Report Number: P27268
Test Lab: INNOVATION CENTER-P2
Test Date: 01/08/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-2-LD4-UNV-1UP-STD-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: 1729.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.42' x H: 0.29')
CIE Type: Indirect

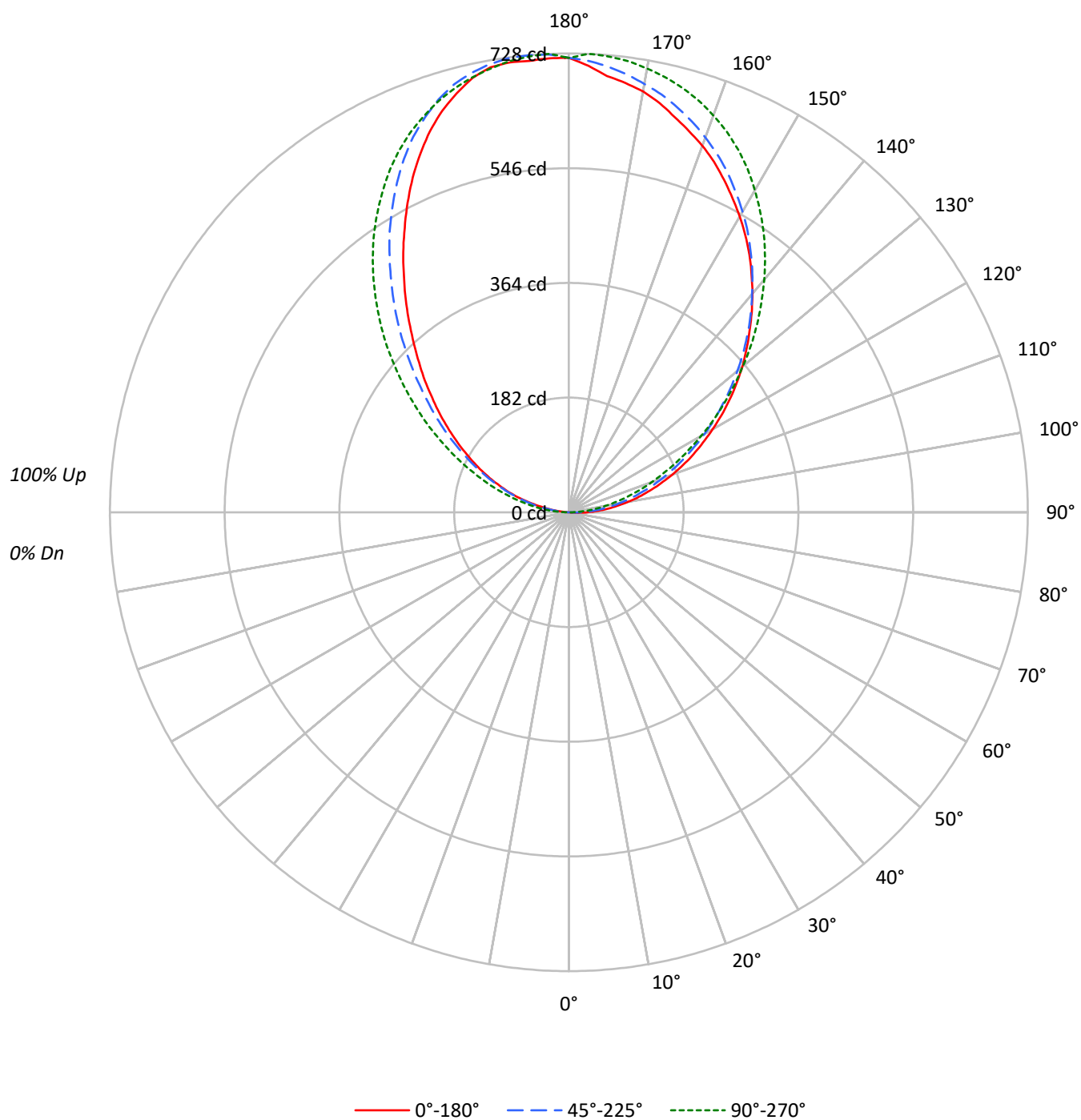
Input Watts (W): 17.5
Input Voltage (V): 120.02
Input Current (Ain): 0.14695
Voltage Rise (V): NR
Power Factor: 0.9956
Total Harmonic Distortion (THDi): 5.74%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	66	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.4	0.1
90°-100°	34.7	2.0
100°-110°	104.4	6.0
110°-120°	181.0	10.5
120°-130°	251.3	14.5
130°-140°	301.3	17.4
140°-150°	314.8	18.2
150°-160°	279.4	16.2
160°-170°	192.3	11.1
170°-180°	68.1	3.9
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	320.1	18.5
90°-150°	1187.4	68.7
90°-180°	1727.0	99.8
0°-180°	1729.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	4	0	0	0	0	3
90°	29	18	1	1	2	16
95°	60	47	28	11	6	56
105°	133	117	97	76	73	141
115°	218	201	189	155	149	216
125°	311	297	300	252	235	278
135°	405	401	422	367	336	313
145°	499	503	539	496	456	312
155°	582	595	635	619	586	268
165°	649	665	697	703	688	183
175°	695	710	726	728	719	66
180°	721	721	721	721	721	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	4	4	4	3	3	3	2	2	1	1	0
87.5°	15	14	14	14	12	12	12	10	9	7	5
90°	29	28	28	27	26	26	25	23	21	20	18
92.5°	44	43	43	42	41	41	39	38	36	34	32
95°	60	59	59	58	57	56	55	54	52	49	47
97.5°	77	76	76	75	73	73	72	70	68	66	64
100°	95	94	93	93	91	91	89	88	85	83	80
102.5°	114	112	112	111	110	109	108	106	104	101	98
105°	133	132	131	131	129	129	128	126	123	120	117
107.5°	153	152	152	151	150	149	148	146	143	140	137
110°	174	174	173	172	171	169	169	167	164	161	158



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	196	195	194	194	192	191	190	188	185	182	179
115°	218	217	216	216	214	213	212	210	207	205	201
117.5°	240	240	239	238	237	236	235	232	230	228	224
120°	263	263	262	262	260	259	258	256	253	252	248
122.5°	287	287	286	285	284	283	282	280	277	276	273
125°	311	310	309	309	308	307	306	305	302	300	297
127.5°	335	334	333	333	332	331	330	329	327	325	323
130°	359	358	357	357	356	356	355	353	352	350	349
132.5°	382	382	382	382	381	379	380	379	376	376	375
135°	405	406	406	406	405	403	404	403	401	402	401
137.5°	429	430	429	429	429	428	428	428	425	427	427
140°	453	454	453	453	452	452	452	452	450	451	452
142.5°	476	477	477	476	476	476	476	476	474	476	478
145°	499	499	500	499	500	499	500	500	500	501	503
147.5°	521	522	522	522	522	522	523	523	523	526	528
150°	542	543	544	543	544	544	545	545	546	548	551
152.5°	562	564	564	564	565	564	565	566	567	569	573
155°	582	584	584	584	585	585	586	586	589	592	595
157.5°	602	603	603	603	605	604	606	606	608	612	615
160°	619	620	620	621	622	622	623	624	626	629	633
162.5°	634	635	635	636	638	638	639	640	643	646	650
165°	649	650	651	651	653	653	654	655	658	662	665
167.5°	665	666	666	666	668	668	669	670	672	676	679
170°	678	679	679	679	681	681	682	682	685	687	690
172.5°	687	687	687	688	690	690	691	691	694	698	701
175°	695	696	696	697	700	700	700	701	704	707	710
177.5°	709	709	708	709	710	710	710	711	712	715	717
180°	721	721	721	721	721	721	721	721	721	721	721



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	4	3	2	1	1	1	0	0	0	0	1
90°	16	13	11	9	9	8	5	4	1	1	0
92.5°	30	27	25	23	22	21	19	17	15	13	11
95°	45	42	40	38	36	36	34	31	30	28	25
97.5°	61	58	55	53	52	51	49	46	45	43	41
100°	78	75	72	70	69	68	66	63	62	59	58
102.5°	96	92	89	88	86	85	84	81	79	77	75
105°	115	111	108	107	105	104	103	100	98	97	97
107.5°	134	131	128	127	126	124	122	121	119	118	118
110°	154	152	150	148	146	145	144	143	144	140	138



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	177	174	171	170	171	170	167	166	165	163	162
115°	199	196	194	193	192	192	191	192	192	189	187
117.5°	222	220	218	217	216	217	216	216	216	214	213
120°	246	244	242	242	242	243	242	243	243	242	241
122.5°	270	269	268	268	268	269	269	271	272	271	270
125°	296	295	294	295	295	296	297	299	300	300	299
127.5°	321	321	321	322	323	324	327	328	330	330	329
130°	348	348	348	350	351	352	355	357	359	360	359
132.5°	374	375	376	378	380	381	385	388	390	392	391
135°	401	402	403	406	408	409	414	417	420	422	422
137.5°	428	429	431	434	436	438	443	446	450	452	452
140°	453	455	457	461	464	465	471	475	479	482	482
142.5°	479	481	484	488	491	493	499	503	507	511	512
145°	504	509	512	515	518	520	526	530	534	539	540
147.5°	530	532	535	540	544	546	552	555	560	565	566
150°	553	557	561	564	568	570	576	580	585	590	592
152.5°	575	580	584	589	591	594	600	603	608	614	615
155°	597	601	605	610	613	616	621	624	630	635	637
157.5°	617	622	625	630	633	636	640	643	648	654	655
160°	635	640	644	648	651	653	658	660	665	670	672
162.5°	653	657	661	665	667	670	673	677	681	685	687
165°	668	672	676	680	682	684	687	690	694	697	699
167.5°	681	685	688	691	694	695	698	700	704	707	708
170°	692	695	699	702	704	705	707	709	712	715	716
172.5°	703	706	708	711	713	714	715	716	719	722	722
175°	711	714	716	718	719	720	721	721	724	726	725
177.5°	718	719	721	723	723	724	725	724	726	728	727
180°	721	721	721	721	721	721	721	721	721	721	721



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	1	0	0	1	1	1	1	1	1	1
90°	1	1	1	1	1	1	1	1	1	2	2
92.5°	10	8	6	5	5	3	2	2	2	2	2
95°	24	22	21	19	18	16	14	12	11	10	10
97.5°	39	37	36	34	33	31	29	27	25	24	23
100°	55	53	51	50	49	47	46	44	42	41	40
102.5°	73	71	68	67	65	64	62	61	59	58	58
105°	93	90	86	85	84	82	80	78	76	76	76
107.5°	114	110	106	105	103	101	98	96	95	94	94
110°	135	132	129	126	125	121	118	116	114	112	113



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	158	155	151	148	147	143	140	136	134	132	132
115°	184	181	177	173	170	166	162	158	155	154	153
117.5°	210	206	200	197	195	190	185	181	178	176	173
120°	237	234	227	224	222	216	210	205	201	198	197
122.5°	267	263	255	252	249	243	236	230	226	222	219
125°	296	292	285	281	278	271	264	257	252	248	244
127.5°	326	323	315	311	308	301	293	285	278	275	270
130°	357	353	346	342	338	331	322	314	306	302	296
132.5°	389	386	378	375	370	362	353	345	336	331	325
135°	420	417	410	407	402	394	385	376	367	361	354
137.5°	451	449	442	439	435	426	417	408	399	392	384
140°	481	480	474	471	466	458	449	439	431	423	415
142.5°	511	510	505	502	498	490	481	472	463	456	447
145°	539	539	535	533	529	522	513	505	496	489	480
147.5°	566	566	564	563	559	553	545	537	529	522	513
150°	591	592	591	590	588	582	575	568	560	554	546
152.5°	615	616	617	616	614	609	603	598	590	584	576
155°	637	638	640	639	638	634	631	625	619	613	606
157.5°	655	657	659	660	659	656	654	650	645	640	635
160°	672	674	677	678	677	675	674	671	667	664	661
162.5°	687	688	692	693	693	692	692	690	687	684	682
165°	699	701	704	706	706	706	706	705	703	701	699
167.5°	708	709	713	714	715	715	716	715	714	714	713
170°	715	716	719	720	721	722	722	723	722	722	722
172.5°	720	722	724	725	726	727	727	727	727	726	726
175°	724	724	726	727	728	729	729	729	728	727	727
177.5°	725	724	726	727	727	728	728	727	727	726	725
180°	721	721	721	721	721	721	721	721	721	721	721



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0
87.5°	1	1	1	1	1	1	1	2
90°	2	2	2	2	2	2	2	2
92.5°	2	2	2	2	2	2	2	2
95°	8	7	7	7	7	6	6	6
97.5°	22	22	21	21	21	20	20	20
100°	38	37	36	36	36	35	36	35
102.5°	57	56	55	55	54	53	53	53
105°	75	74	74	74	74	73	73	73
107.5°	92	92	93	92	92	91	91	92
110°	111	111	111	111	111	110	110	110



TEST NUMBER: P27268

CATALOG NUMBER: MPBL-2-LD4-UNV-1UP-STD-40

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	130	131	130	130	130	129	130	129
115°	151	150	150	150	150	149	149	149
117.5°	172	171	171	171	170	169	169	169
120°	194	193	193	192	191	190	191	190
122.5°	217	216	215	214	213	212	212	212
125°	241	239	238	238	236	235	235	235
127.5°	266	264	262	262	261	259	259	259
130°	292	290	289	287	286	284	284	283
132.5°	321	317	315	314	312	309	310	310
135°	350	345	343	342	339	338	336	336
137.5°	380	375	372	370	367	366	364	364
140°	410	405	402	400	397	396	394	394
142.5°	442	436	434	432	428	426	424	425
145°	475	469	466	464	459	458	456	456
147.5°	508	502	499	497	492	491	489	489
150°	541	535	531	530	525	523	522	521
152.5°	571	566	563	561	557	555	554	554
155°	602	597	594	593	588	586	586	586
157.5°	631	627	625	624	619	617	617	616
160°	656	653	651	650	646	645	645	644
162.5°	678	675	674	673	669	668	668	668
165°	696	694	692	691	689	688	688	688
167.5°	711	709	708	708	706	705	706	706
170°	720	719	718	718	717	716	717	717
172.5°	724	722	722	721	720	720	720	720
175°	725	723	722	721	719	719	719	719
177.5°	724	722	722	721	720	720	720	721
180°	721	721	721	721	721	721	721	721

(END OF REPORT)