

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: P27390

Luminaire Tested: **MPBL-4-LD4-UNV-2UP-HI-40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P27390
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-4-LD4-UNV-2UP-HI-40
Description: FAILSAFE MPBL LED PATIENT BED LIGHT
Light Source: (168) 4000K NICHIA LEDS
2UT217042A8404A
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVERS
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8015.8 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.42' x H: 0.29')
CIE Type: Indirect

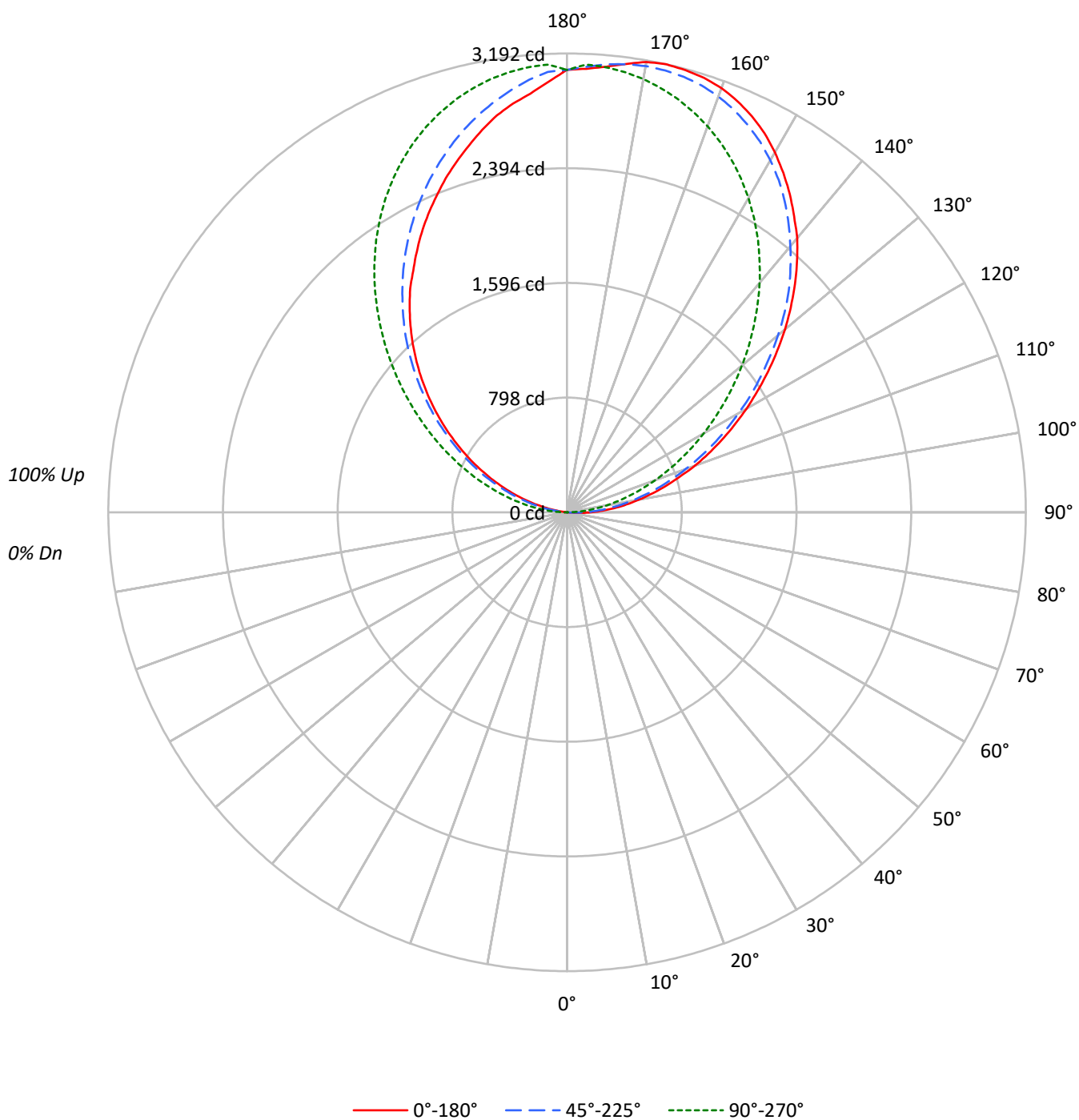
Input Watts (W): 89.8
Input Voltage (V): 120.08
Input Current (Ain): 0.75031
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.79%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

Luminous Intensity Polar Plot





TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

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°	165	40	16



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

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°	15.3	0.2
90°-100°	171.8	2.1
100°-110°	502.4	6.3
110°-120°	882.4	11.0
120°-130°	1219.0	15.2
130°-140°	1428.6	17.8
140°-150°	1441.9	18.0
150°-160°	1234.4	15.4
160°-170°	828.9	10.3
170°-180°	291.1	3.6
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	15.3	0.2
90°-120°	1556.6	19.4
90°-150°	5646.1	70.4
90°-180°	8000.0	99.8
0°-180°	8015.8	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°	20	1	1	1	2	18
90°	166	119	0	8	16	91
95°	328	270	127	9	14	305
105°	712	655	453	300	248	757
115°	1184	1124	865	674	619	1175
125°	1706	1643	1339	1095	1041	1527
135°	2242	2182	1838	1548	1480	1729
145°	2702	2641	2315	1994	1902	1689
155°	3041	2974	2706	2406	2286	1400
165°	3184	3136	2976	2760	2641	900
175°	3111	3129	3108	3021	2924	299
180°	3078	3078	3078	3078	3078	



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

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°	20	20	19	17	11	11	12	7	1	1	1
87.5°	91	91	90	87	81	80	81	75	61	54	48
90°	166	167	165	163	156	154	156	149	134	126	119
92.5°	244	245	244	242	234	235	234	227	211	202	193
95°	328	329	328	325	317	319	317	309	293	283	270
97.5°	417	418	416	415	406	407	406	398	380	370	359
100°	510	512	511	509	500	498	500	492	473	463	449
102.5°	608	611	610	608	598	597	599	586	571	561	548
105°	712	714	714	712	702	704	704	690	675	665	655
107.5°	820	824	824	822	811	811	807	799	785	775	763
110°	944	937	937	934	924	926	921	912	898	889	878



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1062	1055	1055	1053	1042	1043	1044	1031	1018	1008	996
115°	1184	1183	1178	1169	1170	1164	1160	1155	1142	1137	1124
117.5°	1310	1308	1305	1296	1296	1293	1288	1283	1270	1265	1247
120°	1441	1438	1436	1425	1426	1422	1426	1415	1401	1396	1376
122.5°	1572	1571	1568	1557	1558	1554	1551	1548	1535	1529	1515
125°	1706	1705	1702	1691	1692	1690	1685	1683	1669	1662	1643
127.5°	1842	1840	1837	1827	1828	1825	1822	1820	1805	1797	1779
130°	1978	1976	1972	1961	1963	1961	1958	1949	1940	1932	1916
132.5°	2111	2109	2105	2095	2096	2089	2091	2082	2073	2066	2051
135°	2242	2239	2235	2224	2226	2226	2221	2218	2202	2196	2182
137.5°	2369	2366	2361	2351	2353	2346	2348	2343	2333	2321	2300
140°	2491	2489	2483	2472	2474	2468	2469	2462	2450	2440	2417
142.5°	2594	2604	2598	2587	2588	2582	2583	2576	2558	2554	2531
145°	2702	2710	2704	2694	2695	2691	2690	2683	2668	2664	2641
147.5°	2800	2807	2801	2792	2795	2791	2791	2783	2773	2762	2740
150°	2891	2899	2892	2887	2884	2880	2878	2868	2859	2848	2828
152.5°	2974	2980	2972	2961	2960	2956	2954	2944	2937	2926	2907
155°	3041	3046	3038	3030	3030	3026	3024	3013	3007	2993	2974
157.5°	3097	3101	3096	3091	3089	3086	3084	3072	3065	3051	3031
160°	3141	3144	3138	3134	3130	3128	3125	3114	3109	3096	3078
162.5°	3169	3170	3164	3159	3156	3155	3153	3144	3142	3130	3114
165°	3184	3186	3181	3177	3175	3175	3172	3164	3161	3151	3136
167.5°	3192	3192	3188	3184	3181	3181	3179	3171	3169	3161	3148
170°	3181	3179	3176	3172	3169	3171	3169	3165	3166	3162	3152
172.5°	3146	3143	3145	3146	3148	3152	3152	3151	3153	3152	3144
175°	3111	3112	3115	3119	3122	3128	3128	3130	3134	3134	3129
177.5°	3088	3087	3084	3085	3084	3089	3090	3094	3100	3103	3102
180°	3078	3078	3078	3078	3078	3078	3078	3078	3078	3078	3078



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

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°	1	1	1	1	1	1	1	1	1	1	1
87.5°	35	22	10	0	0	0	0	0	0	0	0
90°	107	93	80	64	58	52	36	20	5	0	0
92.5°	181	166	149	135	128	122	106	90	78	61	44
95°	261	246	226	210	207	196	179	161	148	127	113
97.5°	347	330	309	292	287	276	257	237	223	199	185
100°	438	421	398	379	372	362	341	320	299	280	262
102.5°	536	517	493	472	459	454	431	408	382	364	345
105°	639	619	593	572	566	552	528	503	474	453	433
107.5°	748	728	700	677	670	656	631	604	573	549	528
110°	862	840	812	788	781	766	738	710	676	651	627



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	980	958	929	903	895	880	851	820	790	756	730
115°	1102	1081	1051	1029	1014	997	968	936	900	865	836
117.5°	1228	1209	1177	1154	1138	1125	1090	1049	1016	981	949
120°	1359	1339	1306	1282	1264	1245	1213	1170	1135	1097	1063
122.5°	1492	1471	1436	1410	1391	1373	1339	1293	1256	1216	1180
125°	1626	1605	1567	1539	1521	1500	1468	1419	1379	1339	1300
127.5°	1761	1739	1699	1668	1650	1629	1597	1547	1505	1462	1423
130°	1897	1873	1830	1797	1778	1751	1726	1675	1640	1588	1547
132.5°	2031	2005	1960	1923	1906	1879	1847	1802	1766	1714	1669
135°	2162	2132	2087	2047	2030	2009	1979	1926	1890	1838	1792
137.5°	2284	2253	2206	2168	2152	2131	2097	2056	2016	1962	1915
140°	2400	2367	2320	2284	2271	2251	2216	2176	2137	2084	2035
142.5°	2512	2478	2431	2396	2384	2364	2331	2292	2253	2200	2152
145°	2619	2583	2535	2503	2492	2472	2441	2402	2366	2315	2266
147.5°	2714	2677	2630	2603	2587	2575	2543	2507	2472	2422	2374
150°	2801	2766	2721	2696	2686	2670	2640	2604	2573	2524	2479
152.5°	2879	2846	2801	2780	2766	2753	2728	2696	2665	2619	2576
155°	2943	2912	2871	2853	2841	2833	2805	2777	2750	2706	2665
157.5°	3001	2971	2934	2918	2909	2902	2877	2851	2827	2786	2748
160°	3049	3021	2990	2974	2965	2958	2937	2915	2895	2858	2823
162.5°	3085	3058	3032	3018	3012	3007	2989	2970	2953	2920	2889
165°	3109	3087	3066	3056	3054	3049	3035	3018	3006	2976	2948
167.5°	3124	3105	3089	3083	3081	3081	3071	3057	3048	3022	2999
170°	3131	3115	3104	3100	3102	3102	3094	3085	3081	3060	3040
172.5°	3126	3113	3107	3106	3110	3113	3109	3105	3103	3088	3074
175°	3114	3105	3102	3106	3111	3117	3116	3116	3119	3108	3098
177.5°	3089	3084	3086	3093	3101	3108	3111	3116	3122	3117	3111
180°	3078	3078	3078	3078	3078	3078	3078	3078	3078	3078	3078



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

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°	1	1	1	1	1	1	1	1	1	1	1
87.5°	0	0	0	0	0	0	1	2	4	6	8
90°	0	0	0	1	2	4	5	7	8	10	11
92.5°	30	11	2	1	0	2	4	5	7	8	10
95°	100	83	70	63	52	36	26	15	9	8	8
97.5°	170	152	140	132	123	108	98	83	69	59	48
100°	246	226	212	203	195	181	171	157	145	133	122
102.5°	322	305	291	281	273	258	248	234	222	210	199
105°	414	390	379	366	355	339	330	315	300	290	280
107.5°	502	481	468	453	443	427	417	402	386	376	365
110°	597	575	563	547	536	518	507	492	477	467	455



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	699	676	661	645	632	615	603	587	571	560	549
115°	803	779	763	746	733	715	704	686	674	663	648
117.5°	913	887	869	853	844	820	808	790	773	766	750
120°	1024	997	980	963	948	928	915	896	878	872	855
122.5°	1138	1109	1093	1074	1060	1038	1024	1004	984	979	962
125°	1256	1223	1205	1189	1179	1151	1136	1114	1095	1088	1072
127.5°	1376	1340	1319	1303	1294	1265	1249	1227	1207	1198	1182
130°	1498	1458	1436	1419	1410	1380	1364	1342	1320	1311	1293
132.5°	1620	1578	1553	1536	1526	1496	1479	1455	1435	1423	1404
135°	1741	1696	1670	1653	1641	1613	1595	1576	1548	1534	1515
137.5°	1869	1815	1787	1769	1757	1728	1709	1691	1662	1640	1625
140°	1988	1933	1903	1884	1870	1840	1821	1801	1772	1754	1733
142.5°	2105	2050	2017	1991	1982	1951	1931	1911	1882	1857	1840
145°	2219	2164	2129	2104	2093	2062	2042	2021	1994	1966	1949
147.5°	2327	2271	2236	2211	2200	2167	2147	2129	2102	2075	2055
150°	2431	2377	2341	2316	2305	2271	2251	2234	2207	2180	2158
152.5°	2530	2477	2441	2418	2406	2372	2352	2336	2309	2282	2257
155°	2620	2569	2534	2511	2500	2467	2448	2432	2406	2381	2355
157.5°	2705	2656	2622	2601	2589	2557	2539	2520	2501	2480	2453
160°	2783	2737	2706	2685	2675	2644	2626	2609	2592	2572	2544
162.5°	2852	2810	2781	2762	2753	2725	2708	2693	2678	2660	2631
165°	2914	2875	2849	2832	2824	2802	2784	2772	2760	2744	2714
167.5°	2969	2934	2911	2896	2889	2866	2853	2844	2834	2821	2793
170°	3015	2984	2964	2951	2947	2927	2917	2909	2902	2891	2864
172.5°	3052	3026	3008	2999	2995	2981	2972	2965	2964	2956	2930
175°	3081	3059	3046	3039	3037	3027	3022	3019	3021	3016	2994
177.5°	3099	3083	3072	3068	3068	3063	3061	3063	3067	3066	3047
180°	3078	3078	3078	3078	3078	3078	3078	3078	3078	3078	3078



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

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°	1	1	1	1	1	2	2	2
87.5°	10	11	12	12	12	13	13	13
90°	12	13	14	14	15	15	15	16
92.5°	11	12	13	13	14	14	15	15
95°	10	11	11	12	13	13	13	14
97.5°	43	35	30	32	26	26	25	26
100°	116	105	99	99	90	90	87	83
102.5°	194	183	176	177	168	163	165	160
105°	276	264	261	259	249	249	246	248
107.5°	357	351	346	345	336	333	334	334
110°	451	440	436	435	426	422	424	425



TEST NUMBER: P27390

CATALOG NUMBER: MPBL-4-LD4-UNV-2UP-HI-40

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	546	534	530	530	520	517	519	520
115°	644	632	633	628	619	621	617	619
117.5°	741	733	730	731	721	718	719	722
120°	845	837	839	835	826	822	824	826
122.5°	951	944	946	941	932	928	930	932
125°	1060	1051	1055	1049	1041	1037	1038	1041
127.5°	1171	1161	1158	1159	1151	1146	1147	1151
130°	1282	1272	1269	1270	1261	1257	1258	1261
132.5°	1392	1382	1379	1379	1372	1367	1367	1372
135°	1502	1491	1489	1488	1480	1476	1475	1480
137.5°	1617	1601	1599	1597	1590	1590	1583	1589
140°	1719	1710	1709	1705	1697	1697	1690	1695
142.5°	1827	1816	1809	1811	1804	1802	1795	1799
145°	1934	1921	1915	1917	1908	1906	1899	1902
147.5°	2039	2026	2019	2021	2010	2007	2000	1992
150°	2141	2128	2121	2122	2117	2108	2101	2092
152.5°	2237	2224	2219	2220	2211	2208	2201	2192
155°	2334	2322	2314	2317	2307	2303	2295	2286
157.5°	2432	2420	2413	2415	2408	2398	2388	2379
160°	2528	2512	2506	2508	2502	2491	2481	2471
162.5°	2613	2598	2591	2593	2587	2577	2568	2557
165°	2696	2681	2675	2677	2670	2661	2651	2641
167.5°	2775	2762	2756	2759	2753	2744	2736	2726
170°	2847	2835	2831	2835	2830	2823	2813	2805
172.5°	2914	2904	2900	2902	2897	2887	2876	2868
175°	2979	2970	2967	2970	2962	2949	2934	2924
177.5°	3033	3026	3024	3027	3024	3015	3000	2996
180°	3078	3078	3078	3078	3078	3078	3078	3078

(END OF REPORT)