

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: P27377

Luminaire Tested: **MPBL-4-LD4-UNV-1UP-HI-40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P27377
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-1UP-HI-40
Description: FAILSAFE MPBL LED PATIENT BED LIGHT
Light Source: (84) 4000K NICHIA LEDS
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVERS
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4365.9 lumens
Efficiency: N/A
Efficacy: 96.4 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

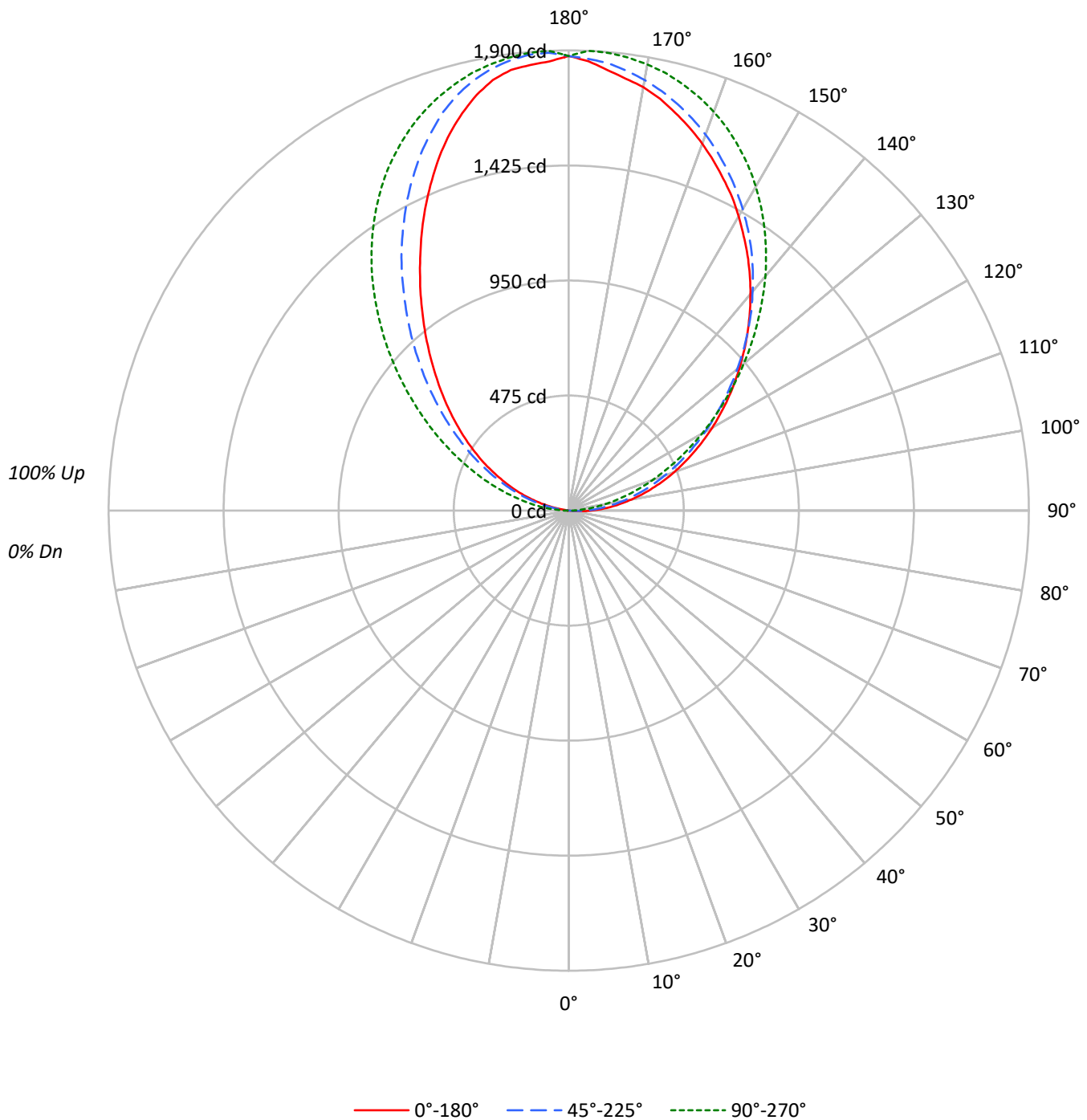
Input Watts (W): 45.3
Input Voltage (V): 120.03
Input Current (Ain): 0.37908
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.86%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-HI-40

Luminous Intensity Polar Plot





TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-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	31	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°	140	0	8



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-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°	8.7	0.2
90°-100°	88.2	2.0
100°-110°	256.9	5.9
110°-120°	450.8	10.3
120°-130°	629.8	14.4
130°-140°	757.1	17.3
140°-150°	794.1	18.2
150°-160°	709.4	16.2
160°-170°	494.0	11.3
170°-180°	176.9	4.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	8.7	0.2
90°-120°	795.9	18.2
90°-150°	2976.9	68.2
90°-180°	4357.0	99.8
0°-180°	4365.9	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°	17	1	0	1	1	12
90°	93	65	0	2	5	51
95°	174	142	69	2	4	160
105°	359	320	252	153	125	380
115°	570	532	495	349	310	565
125°	801	775	784	590	524	717
135°	1045	1046	1104	877	771	806
145°	1287	1314	1411	1201	1063	805
155°	1511	1550	1659	1521	1395	696
165°	1700	1737	1822	1777	1699	479
175°	1826	1854	1897	1889	1846	173
180°	1877	1877	1877	1877	1877	



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-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°	17	17	18	14	11	10	8	5	4	1	1
87.5°	55	55	57	52	49	48	46	42	38	35	29
90°	93	93	94	91	86	85	83	79	76	71	65
92.5°	132	132	131	130	124	124	122	118	111	108	102
95°	174	174	173	170	165	165	162	158	150	148	142
97.5°	217	217	216	213	208	208	205	200	192	190	183
100°	263	264	263	259	254	253	250	246	237	234	227
102.5°	310	311	307	306	300	300	297	292	284	280	269
105°	359	359	358	355	349	348	345	340	331	328	320
107.5°	410	410	409	405	400	399	396	390	381	380	368
110°	462	462	461	457	452	451	447	442	433	433	421



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-HI-40

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	515	515	517	510	504	503	500	495	489	486	475
115°	570	570	571	564	559	558	555	549	547	543	532
117.5°	626	623	626	619	615	614	611	606	601	598	590
120°	684	681	685	677	673	673	670	665	665	658	650
122.5°	742	739	743	735	731	728	729	725	725	719	712
125°	801	798	802	794	791	788	790	786	787	782	775
127.5°	861	859	862	854	852	850	851	848	850	842	841
130°	921	919	923	915	913	911	914	912	910	910	908
132.5°	983	981	985	977	976	974	977	977	975	973	977
135°	1045	1042	1046	1038	1037	1037	1040	1040	1039	1042	1046
137.5°	1106	1103	1108	1101	1100	1100	1104	1104	1105	1109	1115
140°	1167	1165	1169	1162	1162	1163	1167	1168	1168	1173	1181
142.5°	1228	1225	1229	1222	1224	1225	1229	1233	1232	1240	1248
145°	1287	1285	1288	1281	1284	1286	1291	1293	1296	1306	1314
147.5°	1344	1343	1347	1340	1344	1347	1352	1355	1359	1370	1377
150°	1403	1400	1404	1398	1402	1406	1409	1412	1417	1429	1437
152.5°	1460	1457	1457	1453	1457	1461	1465	1469	1475	1489	1495
155°	1511	1510	1510	1506	1512	1517	1520	1524	1531	1545	1550
157.5°	1563	1561	1561	1560	1566	1571	1574	1578	1585	1598	1603
160°	1612	1610	1610	1608	1615	1619	1622	1627	1634	1647	1652
162.5°	1658	1656	1655	1651	1658	1663	1667	1671	1680	1693	1697
165°	1700	1699	1698	1695	1703	1706	1710	1714	1722	1734	1737
167.5°	1742	1740	1739	1736	1744	1746	1750	1752	1761	1771	1774
170°	1775	1775	1773	1769	1776	1780	1783	1785	1794	1804	1805
172.5°	1799	1799	1798	1796	1805	1810	1812	1814	1822	1831	1832
175°	1826	1826	1825	1824	1832	1836	1838	1839	1847	1853	1854
177.5°	1857	1854	1849	1843	1850	1852	1853	1854	1861	1867	1867
180°	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-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	0	0	0	0	0	1	1	0	1
87.5°	20	15	9	4	0	0	0	0	0	0	0
90°	56	51	45	40	33	30	22	13	3	0	0
92.5°	95	87	81	76	69	66	58	50	40	31	21
95°	133	125	120	115	108	104	96	88	79	69	59
97.5°	175	166	161	156	148	145	136	128	119	109	99
100°	218	210	203	199	192	189	180	172	163	153	141
102.5°	265	256	250	246	239	236	228	220	211	200	188
105°	313	304	301	296	289	286	278	271	263	252	239
107.5°	362	358	352	349	342	339	335	326	319	308	294
110°	415	409	407	405	397	396	390	385	378	367	353



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-HI-40

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	469	464	464	463	456	455	450	446	437	429	415
115°	527	525	522	524	517	518	515	512	502	495	479
117.5°	586	582	583	587	581	582	578	576	570	563	547
120°	649	649	648	653	648	650	651	652	642	635	620
122.5°	716	714	714	720	716	719	722	724	715	709	693
125°	781	783	781	789	785	790	791	795	790	784	770
127.5°	848	851	850	855	856	863	870	876	868	863	849
130°	917	917	920	922	928	936	942	955	946	943	930
132.5°	987	988	991	998	1002	1010	1020	1029	1025	1024	1012
135°	1056	1059	1060	1069	1074	1084	1096	1106	1104	1104	1092
137.5°	1123	1128	1125	1141	1147	1159	1173	1183	1182	1184	1173
140°	1189	1196	1193	1211	1219	1231	1248	1259	1263	1263	1252
142.5°	1257	1263	1260	1281	1290	1303	1321	1331	1333	1338	1329
145°	1325	1328	1328	1350	1360	1372	1391	1402	1404	1411	1404
147.5°	1389	1389	1393	1416	1423	1439	1459	1469	1476	1480	1473
150°	1450	1449	1455	1479	1491	1503	1523	1532	1539	1545	1540
152.5°	1509	1506	1515	1539	1551	1563	1583	1592	1599	1605	1602
155°	1563	1559	1570	1594	1603	1617	1638	1646	1652	1659	1657
157.5°	1614	1610	1622	1646	1657	1668	1689	1696	1701	1709	1708
160°	1665	1658	1671	1693	1703	1714	1733	1740	1745	1752	1754
162.5°	1708	1701	1713	1734	1744	1755	1773	1778	1782	1790	1792
165°	1745	1740	1752	1772	1781	1792	1808	1812	1815	1822	1825
167.5°	1780	1773	1786	1804	1813	1824	1838	1842	1844	1850	1852
170°	1809	1802	1814	1831	1838	1849	1862	1863	1865	1870	1872
172.5°	1832	1825	1836	1851	1859	1869	1880	1881	1881	1886	1888
175°	1851	1844	1854	1868	1874	1884	1894	1894	1893	1897	1898
177.5°	1861	1855	1863	1876	1882	1890	1900	1898	1897	1900	1901
180°	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-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	0	0	0	1	1
90°	0	0	0	0	0	1	1	2	2	3	3
92.5°	13	7	0	0	0	0	1	1	2	2	3
95°	50	44	33	29	25	15	7	4	2	2	2
97.5°	89	83	71	65	63	54	45	39	31	23	18
100°	131	124	111	105	103	91	84	78	71	64	59
102.5°	177	169	155	148	145	133	125	119	111	104	100
105°	227	218	202	194	191	179	168	161	153	146	142
107.5°	281	271	254	245	241	226	213	207	198	190	185
110°	339	327	308	298	294	278	264	256	245	237	231



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-HI-40

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	402	387	366	355	351	332	316	307	295	286	278
115°	464	449	428	416	411	390	374	362	349	337	328
117.5°	531	515	493	480	474	454	434	417	405	393	381
120°	602	585	562	548	542	516	497	478	465	450	437
122.5°	674	657	633	619	612	583	562	542	526	510	496
125°	749	730	707	692	684	657	629	608	590	573	556
127.5°	826	806	782	767	759	730	701	677	658	639	619
130°	906	885	859	844	836	805	774	749	728	707	686
132.5°	987	966	940	924	917	884	850	821	802	778	755
135°	1068	1045	1019	1004	997	964	929	902	877	852	827
137.5°	1149	1127	1100	1085	1078	1047	1010	981	956	929	902
140°	1230	1207	1180	1166	1159	1124	1091	1061	1035	1007	980
142.5°	1307	1285	1259	1245	1239	1206	1171	1141	1116	1087	1058
145°	1384	1363	1338	1324	1319	1289	1255	1225	1201	1171	1142
147.5°	1456	1436	1412	1399	1391	1369	1336	1308	1285	1256	1227
150°	1524	1505	1483	1472	1464	1446	1416	1389	1364	1339	1311
152.5°	1588	1571	1548	1542	1535	1520	1494	1468	1445	1422	1394
155°	1645	1630	1613	1604	1599	1588	1565	1542	1521	1501	1474
157.5°	1697	1683	1668	1662	1657	1651	1633	1611	1595	1578	1555
160°	1743	1731	1719	1714	1710	1708	1693	1676	1662	1649	1630
162.5°	1783	1772	1762	1758	1756	1758	1748	1732	1725	1712	1696
165°	1816	1806	1798	1795	1794	1800	1793	1782	1777	1768	1755
167.5°	1844	1835	1827	1826	1827	1834	1831	1822	1819	1814	1806
170°	1866	1857	1852	1850	1851	1861	1860	1852	1851	1848	1843
172.5°	1881	1872	1868	1867	1868	1879	1880	1874	1874	1873	1870
175°	1892	1883	1878	1877	1879	1890	1892	1888	1889	1889	1888
177.5°	1894	1884	1881	1880	1882	1892	1895	1891	1892	1894	1893
180°	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-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	1	0	1
87.5°	2	2	2	3	3	3	3	3
90°	4	4	4	4	4	5	5	5
92.5°	3	4	4	4	4	4	4	4
95°	2	3	3	3	4	4	4	4
97.5°	14	11	10	9	7	7	6	6
100°	53	48	47	44	42	39	38	36
102.5°	96	92	91	88	87	84	83	81
105°	137	134	134	131	129	127	127	125
107.5°	180	178	178	176	173	173	172	169
110°	226	224	223	221	219	217	218	215



TEST NUMBER: P27377

CATALOG NUMBER: MPBL-4-LD4-UNV-1UP-HI-40

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	273	271	271	268	268	266	265	262
115°	325	320	319	317	316	314	314	310
117.5°	376	372	372	369	367	364	364	362
120°	432	426	425	422	420	418	417	414
122.5°	488	482	481	478	474	471	471	468
125°	548	540	538	535	531	527	527	524
127.5°	610	601	599	595	590	586	585	582
130°	674	664	662	657	652	646	645	643
132.5°	739	731	728	723	717	707	709	706
135°	808	799	796	790	783	775	774	771
137.5°	881	871	863	861	854	841	842	839
140°	958	946	942	936	927	914	914	911
142.5°	1035	1022	1015	1012	1003	989	989	985
145°	1117	1103	1095	1092	1083	1068	1068	1063
147.5°	1201	1185	1178	1174	1165	1149	1147	1143
150°	1286	1269	1262	1258	1249	1232	1230	1225
152.5°	1368	1352	1345	1342	1334	1318	1315	1311
155°	1450	1434	1428	1425	1419	1402	1398	1395
157.5°	1533	1517	1511	1509	1504	1486	1481	1477
160°	1610	1595	1590	1589	1585	1567	1561	1558
162.5°	1677	1664	1660	1660	1657	1642	1635	1633
165°	1738	1726	1721	1722	1722	1707	1701	1699
167.5°	1790	1780	1779	1779	1780	1767	1761	1758
170°	1829	1821	1821	1822	1826	1814	1808	1805
172.5°	1858	1850	1850	1852	1855	1845	1838	1835
175°	1877	1869	1870	1871	1872	1860	1851	1846
177.5°	1882	1875	1874	1876	1879	1869	1861	1856
180°	1877	1877	1877	1877	1877	1877	1877	1877

(END OF REPORT)