

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: P27378

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

Test Date: 01/26/16

Test Information

Test Method: LM-79-08
Report Number: P27378
Test Lab: INNOVATION CENTER-P2
Test Date: 01/26/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-4-LD4-UNV-1DN-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: 4086.4 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.19 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.42' x H: 0.29')
CIE Type: Direct

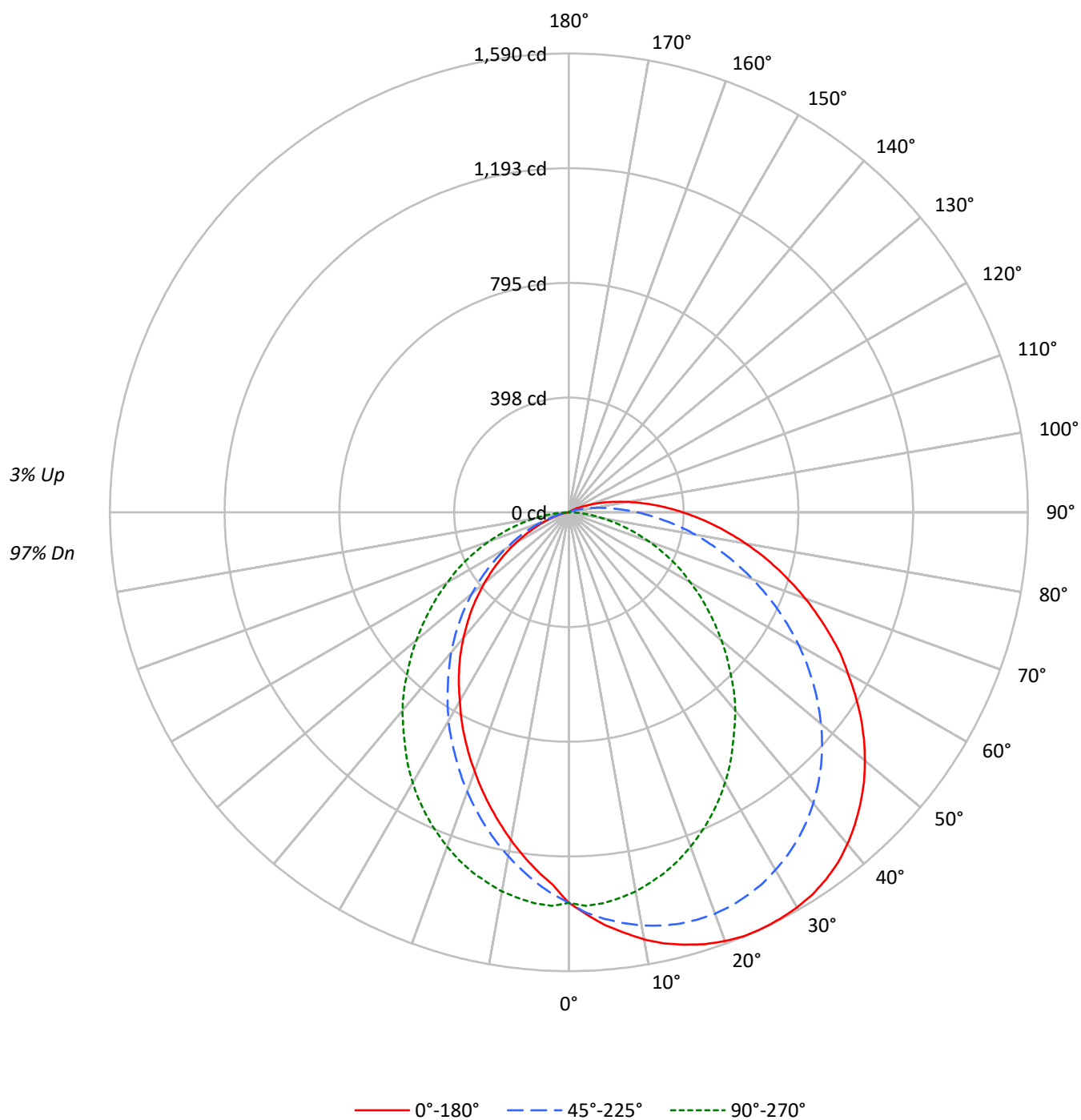
Input Watts (W): 45.4
Input Voltage (V): 120.04
Input Current (Ain): 0.37919
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.59%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	107	102	97	93	104	99	95	91	94	91	87	90	87	84	86	83	81
2	97	88	81	75	94	86	79	74	82	76	72	78	74	69	75	71	67
3	88	77	69	62	85	75	68	61	72	65	60	69	63	58	66	61	57
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	64	50	41	35	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	37	31	57	45	36	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	38	30	25	50	38	30	25	37	30	25	35	29	25	34	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8738	8738	8738
5°	8772	8761	7624
10°	8774	8637	6736
15°	8732	8466	5940
20°	8660	8255	5231
25°	8542	8015	4599
30°	8397	7743	4010
35°	8217	7419	3508
40°	7972	7126	3017
45°	7672	6751	2552
50°	7335	6378	2098
55°	6948	5986	1655
60°	6515	5562	1238
65°	6092	5167	849
70°	5626	4625	523
75°	5146	3962	290
80°	4655	3131	112
85°	4157	2061	8



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.1
10°-20°	365.2	8.9
20°-30°	549.3	13.4
30°-40°	657.4	16.1
40°-50°	677.7	16.6
50°-60°	610.6	14.9
60°-70°	477.8	11.7
70°-80°	319.1	7.8
80°-90°	177.6	4.3
90°-100°	82.8	2.0
100°-110°	30.4	0.7
110°-120°	8.6	0.2
120°-130°	1.9	0.0
130°-140°	0.0	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°	1042.5	25.5
0°-40°	1699.9	41.6
0°-60°	2988.2	73.1
0°-90°	3962.7	97.0
90°-120°	121.8	3.0
90°-150°	123.6	3.0
90°-180°	124.0	3.0
0°-180°	4086.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1353	1353	1353	1353	1353	
5°	1436	1414	1360	1289	1248	139
15°	1551	1476	1291	1123	1055	440
25°	1590	1464	1163	931	856	734
35°	1553	1383	989	731	663	972
45°	1428	1236	793	535	475	1102
55°	1234	1033	587	345	294	1103
65°	997	799	391	174	139	987
75°	745	557	202	51	42	788
85°	505	335	51	2	1	436
90°	395	237	1	0	0	217
95°	295	152	0	0	0	223
105°	134	41	1	0	0	145
115°	40	7	3	1	0	43
125°	6	2	3	2	0	6
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1353	1353	1353	1353	1353	1353	1353	1353	1353	1353	1353
2.5°	1394	1392	1393	1392	1392	1391	1390	1390	1396	1392	1389
5°	1436	1434	1434	1432	1428	1427	1425	1422	1425	1421	1414
7.5°	1469	1469	1468	1466	1462	1459	1456	1452	1452	1445	1435
10°	1503	1500	1498	1494	1489	1486	1483	1477	1475	1466	1454
12.5°	1530	1528	1525	1521	1514	1511	1506	1497	1492	1482	1467
15°	1551	1551	1549	1544	1538	1532	1526	1515	1508	1495	1476
17.5°	1569	1569	1566	1560	1552	1546	1540	1527	1516	1501	1480
20°	1581	1581	1576	1570	1560	1553	1546	1531	1519	1503	1480
22.5°	1589	1587	1583	1575	1564	1557	1549	1531	1517	1499	1475
25°	1590	1589	1583	1576	1564	1556	1548	1529	1512	1493	1464
27.5°	1587	1586	1581	1572	1560	1552	1543	1522	1503	1481	1451
30°	1581	1580	1574	1564	1551	1543	1533	1511	1488	1465	1431
32.5°	1570	1568	1562	1552	1537	1528	1517	1494	1469	1443	1409
35°	1553	1550	1544	1534	1518	1508	1498	1473	1446	1418	1383
37.5°	1531	1528	1522	1510	1493	1484	1473	1446	1418	1388	1352
40°	1501	1499	1493	1482	1464	1454	1443	1415	1386	1354	1317
42.5°	1467	1468	1460	1448	1429	1420	1408	1380	1350	1316	1278
45°	1428	1428	1422	1410	1390	1381	1369	1340	1310	1274	1236
47.5°	1386	1385	1379	1366	1347	1338	1325	1295	1266	1229	1190
50°	1339	1338	1331	1318	1300	1290	1278	1248	1218	1179	1140
52.5°	1288	1286	1280	1267	1249	1239	1225	1196	1166	1128	1088
55°	1234	1231	1226	1214	1195	1185	1171	1141	1112	1074	1033
57.5°	1176	1176	1168	1155	1140	1127	1115	1083	1055	1019	977
60°	1116	1115	1108	1096	1080	1067	1056	1024	996	957	919
62.5°	1060	1051	1047	1035	1019	1006	992	964	935	901	859
65°	997	989	984	971	954	944	931	902	873	837	799
67.5°	933	926	921	909	895	880	867	840	812	778	738
70°	871	863	859	846	832	818	806	779	751	717	677
72.5°	807	801	797	784	769	758	743	718	688	657	617
75°	745	738	733	720	707	696	684	654	628	597	557
77.5°	683	676	673	661	646	634	623	596	567	538	499
80°	622	615	613	600	585	574	563	537	509	480	445
82.5°	562	558	553	541	523	515	504	478	451	423	389
85°	505	501	494	481	466	458	450	420	396	368	335
87.5°	448	445	437	429	411	403	395	368	343	315	284
90°	395	391	384	376	358	351	343	318	293	266	237
92.5°	343	340	334	323	308	300	293	267	245	220	192
95°	295	291	285	274	261	254	246	223	203	178	152
97.5°	249	245	239	230	217	211	204	182	164	141	118
100°	207	204	200	191	177	172	165	145	128	108	87
102.5°	169	166	162	154	142	136	131	114	97	79	61
105°	134	131	126	119	110	105	100	84	71	55	41
107.5°	103	100	97	92	82	78	73	60	49	38	28
110°	76	74	71	67	59	56	52	42	35	26	19



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	55	54	52	48	43	40	38	30	24	18	12
115°	40	39	38	35	30	28	26	21	16	12	7
117.5°	28	28	26	24	20	19	17	14	10	7	4
120°	19	18	18	16	14	12	11	8	6	4	2
122.5°	12	11	11	10	8	7	6	4	3	2	2
125°	6	6	6	5	4	4	3	2	2	2	2
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1353	1353	1353	1353	1353	1353	1353	1353	1353	1353	1353
2.5°	1381	1373	1367	1367	1367	1369	1369	1370	1370	1365	1357
5°	1404	1393	1384	1380	1378	1378	1375	1371	1368	1360	1347
7.5°	1422	1407	1395	1387	1385	1382	1375	1368	1360	1348	1332
10°	1437	1419	1402	1392	1387	1382	1371	1361	1349	1334	1314
12.5°	1447	1425	1406	1390	1384	1377	1363	1348	1333	1313	1291
15°	1453	1428	1404	1386	1377	1369	1350	1332	1314	1291	1265
17.5°	1455	1426	1399	1376	1366	1356	1334	1312	1291	1264	1235
20°	1451	1420	1389	1363	1351	1339	1313	1288	1264	1233	1200
22.5°	1444	1410	1375	1346	1332	1318	1289	1260	1233	1199	1164
25°	1432	1394	1357	1325	1309	1292	1261	1229	1199	1163	1125
27.5°	1416	1376	1335	1299	1282	1264	1229	1196	1162	1124	1083
30°	1396	1354	1310	1269	1252	1233	1195	1159	1123	1082	1039
32.5°	1371	1326	1280	1239	1219	1197	1159	1119	1080	1038	993
35°	1342	1296	1248	1204	1182	1161	1119	1076	1035	989	948
37.5°	1311	1263	1215	1166	1143	1118	1076	1031	989	942	900
40°	1275	1226	1176	1125	1101	1078	1031	984	941	897	850
42.5°	1235	1186	1135	1083	1057	1033	985	937	892	847	801
45°	1192	1142	1090	1037	1011	985	936	888	842	793	750
47.5°	1145	1095	1043	990	961	936	886	839	791	742	700
50°	1096	1045	994	940	911	886	835	785	739	690	650
52.5°	1041	993	942	887	862	835	783	736	685	638	597
55°	988	939	888	834	806	783	730	683	633	587	548
57.5°	931	882	832	781	754	728	677	630	580	538	500
60°	873	826	776	725	699	674	624	578	528	485	450
62.5°	815	768	719	667	644	619	569	525	478	441	399
65°	756	710	662	611	588	565	516	473	427	391	352
67.5°	696	651	605	555	532	510	463	422	377	342	303
70°	637	594	548	500	478	457	408	371	329	294	258
72.5°	578	534	493	445	426	403	357	319	280	247	213
75°	519	477	435	391	373	350	308	271	233	202	169
77.5°	461	423	383	338	320	299	260	223	188	158	129
80°	406	369	330	287	270	250	213	178	146	119	93
82.5°	352	316	279	241	222	204	169	137	107	83	60
85°	299	266	228	195	178	160	129	100	73	51	31
87.5°	250	219	186	152	136	120	92	66	43	22	6
90°	204	173	144	113	99	85	60	37	13	1	0
92.5°	162	134	106	80	67	55	32	13	2	0	0
95°	126	100	76	52	42	31	14	4	0	0	0
97.5°	94	72	51	31	22	15	6	1	0	0	0
100°	67	47	30	16	11	7	2	0	0	0	1
102.5°	44	29	18	9	6	4	1	1	1	1	1
105°	28	18	11	5	3	2	1	1	1	1	1
107.5°	19	12	6	3	2	2	2	2	2	2	2
110°	12	7	3	2	2	2	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	8	4	2	2	2	2	2	2	2	2	2
115°	4	2	2	2	2	2	2	3	3	3	3
117.5°	2	2	2	2	2	3	3	3	3	3	3
120°	2	2	2	2	3	3	3	3	3	3	3
122.5°	2	2	2	3	3	3	3	3	3	3	3
125°	2	2	3	3	3	3	3	3	3	3	3
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1353	1353	1353	1353	1353	1353	1353	1353	1353	1353	1353
2.5°	1347	1337	1331	1330	1330	1328	1325	1321	1323	1322	1315
5°	1334	1320	1311	1308	1306	1302	1295	1290	1289	1284	1276
7.5°	1315	1299	1286	1282	1278	1271	1262	1253	1250	1243	1234
10°	1294	1273	1259	1253	1248	1238	1226	1216	1210	1201	1190
12.5°	1268	1245	1227	1219	1213	1200	1187	1175	1168	1157	1144
15°	1238	1213	1192	1183	1176	1161	1146	1130	1123	1110	1098
17.5°	1205	1177	1153	1145	1137	1119	1101	1085	1077	1064	1053
20°	1169	1139	1113	1105	1095	1075	1056	1040	1030	1018	1004
22.5°	1131	1098	1071	1060	1051	1030	1009	993	981	968	953
25°	1087	1055	1026	1015	1005	982	961	943	931	917	903
27.5°	1043	1010	980	968	958	934	912	895	883	868	854
30°	998	964	933	921	908	885	864	847	834	820	805
32.5°	951	916	888	874	862	836	817	797	782	769	755
35°	902	867	838	826	813	786	767	747	731	719	706
37.5°	854	818	790	777	763	737	718	697	682	670	657
40°	803	768	740	727	714	687	669	648	634	622	608
42.5°	754	720	692	679	665	639	620	599	586	573	560
45°	704	670	640	628	616	590	571	550	535	525	511
47.5°	654	624	591	580	567	541	523	501	488	474	464
50°	604	572	543	533	519	493	474	454	439	427	416
52.5°	555	525	497	484	471	444	426	407	391	379	368
55°	506	475	449	434	423	396	378	360	345	333	323
57.5°	457	428	401	388	374	349	331	313	298	288	278
60°	408	379	353	341	327	303	286	268	254	244	236
62.5°	360	334	307	294	282	260	241	225	214	203	196
65°	313	288	262	249	237	216	199	185	174	165	158
67.5°	270	243	218	205	194	175	160	148	138	130	124
70°	226	198	176	164	154	136	124	114	104	98	93
72.5°	182	157	136	126	117	102	90	83	74	69	66
75°	142	120	100	91	84	72	62	56	51	48	46
77.5°	106	84	68	61	55	45	39	36	33	31	30
80°	71	53	41	35	31	25	23	21	19	18	17
82.5°	42	27	19	17	15	12	11	10	9	9	8
85°	16	9	6	5	5	4	3	3	2	2	2
87.5°	1	0	0	0	0	0	0	0	0	1	1
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	1	1	1	1	1	0	0	0	0	0	0
105°	1	1	1	1	1	1	1	0	0	0	0
107.5°	2	2	2	1	1	1	1	1	1	0	0
110°	2	2	2	2	2	1	1	1	1	0	0



TEST NUMBER: P27378

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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	2	2	2	2	2	2	2	1	1	1	1
115°	3	3	2	2	2	2	2	2	1	1	1
117.5°	3	3	3	3	3	2	2	2	2	1	1
120°	3	3	3	3	3	3	2	2	2	2	1
122.5°	3	3	3	3	3	3	2	2	2	2	1
125°	3	3	3	3	3	3	3	2	2	2	2
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
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: P27378

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1353	1353	1353	1353	1353	1353	1353	1353
2.5°	1312	1309	1308	1308	1305	1300	1295	1291
5°	1271	1266	1265	1264	1260	1255	1249	1248
7.5°	1227	1224	1220	1220	1218	1210	1205	1202
10°	1182	1177	1174	1172	1167	1162	1154	1154
12.5°	1135	1127	1124	1122	1119	1112	1105	1104
15°	1088	1081	1077	1075	1069	1063	1057	1055
17.5°	1041	1033	1029	1025	1022	1013	1006	1005
20°	990	983	979	975	971	962	957	955
22.5°	940	932	928	924	921	913	908	906
25°	889	882	878	874	870	862	858	856
27.5°	840	833	829	825	821	812	808	807
30°	792	784	781	776	772	765	761	755
32.5°	742	736	732	728	724	716	713	709
35°	695	687	685	680	676	669	665	663
37.5°	644	639	637	632	628	621	618	616
40°	598	591	588	584	580	573	571	568
42.5°	553	543	541	539	533	527	524	521
45°	505	495	494	491	485	479	477	475
47.5°	457	448	446	443	437	432	430	428
50°	410	401	399	396	391	385	384	383
52.5°	363	353	353	345	345	341	338	338
55°	318	309	308	300	301	297	295	294
57.5°	274	265	265	259	259	255	253	253
60°	232	224	223	218	218	214	212	212
62.5°	192	185	184	178	179	176	175	174
65°	155	148	147	142	143	140	139	139
67.5°	121	115	114	109	111	108	107	107
70°	89	85	85	83	83	82	81	81
72.5°	65	63	62	60	61	62	60	60
75°	46	44	44	42	43	42	42	42
77.5°	29	29	28	27	27	28	26	26
80°	17	16	16	15	15	16	15	15
82.5°	8	8	8	7	7	7	6	6
85°	2	2	2	1	1	1	1	1
87.5°	1	1	1	0	0	0	0	0
90°	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0
97.5°	0	0	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: P27378

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	0	0	0	0	0	0	0	0
115°	1	0	0	0	0	0	0	0
117.5°	1	1	1	1	0	0	0	0
120°	1	1	1	1	0	0	0	0
122.5°	1	1	1	1	0	0	0	0
125°	1	1	1	1	1	1	0	0
127.5°	0	0	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)