

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: P27358

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

Test Date: 01/21/16

Test Information

Test Method: LM-79-08
Report Number: P27358
Test Lab: INNOVATION CENTER-P2
Test Date: 01/21/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-2-LD4-UNV-2UP-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: 4133.1 lumens
Efficiency: N/A
Efficacy: 92.7 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

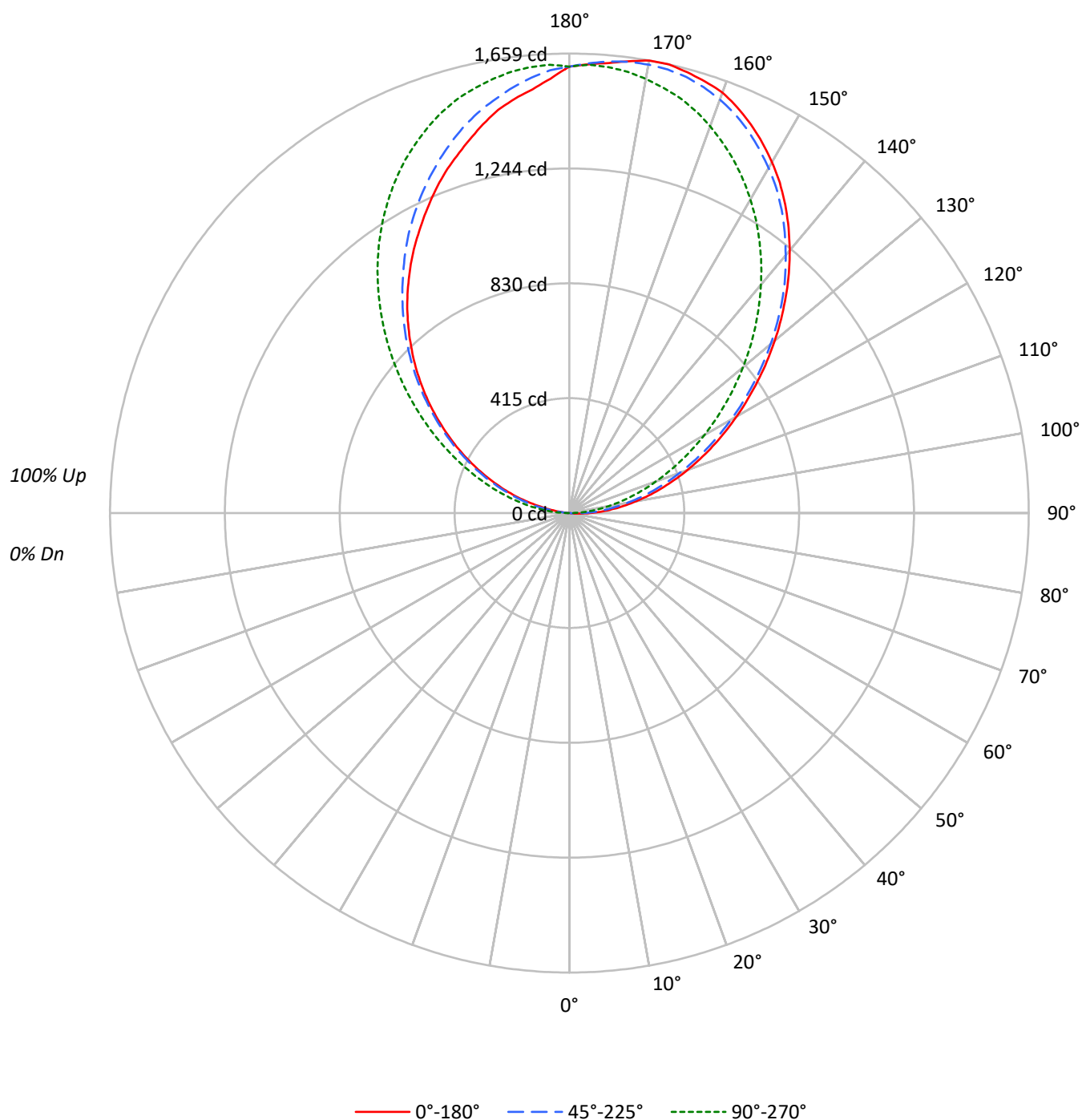
Input Watts (W): 44.6
Input Voltage (V): 120.02
Input Current (Ain): 0.37265
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.64%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	214	56	16



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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°	6.9	0.2
90°-100°	86.4	2.1
100°-110°	257.8	6.2
110°-120°	451.2	10.9
120°-130°	623.5	15.1
130°-140°	734.1	17.8
140°-150°	745.2	18.0
150°-160°	642.0	15.5
160°-170°	433.5	10.5
170°-180°	152.4	3.7
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	6.9	0.2
90°-120°	795.4	19.2
90°-150°	2898.3	70.1
90°-180°	4126.0	99.8
0°-180°	4133.1	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°	13	2	1	1	1	9
90°	75	49	1	5	7	42
95°	154	126	68	19	10	144
105°	344	313	232	177	154	365
115°	571	545	442	369	354	567
125°	830	809	687	587	573	743
135°	1105	1087	949	819	798	853
145°	1359	1336	1197	1048	1014	849
155°	1549	1525	1405	1266	1214	713
165°	1647	1630	1550	1451	1395	465
175°	1631	1637	1616	1578	1535	157
180°	1612	1612	1612	1612	1612	



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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°	13	14	13	12	11	10	9	7	5	3	2
87.5°	39	40	39	37	35	33	32	28	25	21	17
90°	75	76	75	73	71	69	68	63	59	54	49
92.5°	114	115	113	112	109	107	106	101	96	91	86
95°	154	156	154	152	150	147	146	141	136	131	126
97.5°	198	199	198	196	193	191	189	184	179	173	168
100°	244	246	244	242	239	237	233	230	225	219	213
102.5°	292	294	292	291	288	285	284	278	273	268	262
105°	344	346	343	339	339	337	333	329	324	319	313
107.5°	397	399	399	395	393	391	387	386	381	373	367
110°	453	455	455	450	449	447	443	442	437	429	424



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	511	513	513	509	508	506	502	501	496	488	483
115°	571	574	574	569	569	567	563	562	557	550	545
117.5°	633	635	635	631	631	629	625	625	620	613	608
120°	697	700	700	697	696	694	691	691	686	680	674
122.5°	763	762	767	763	762	761	757	758	753	746	741
125°	830	833	832	831	830	829	825	823	822	814	809
127.5°	899	902	901	901	899	898	894	893	892	886	879
130°	968	974	971	971	968	968	966	963	958	956	949
132.5°	1037	1043	1040	1039	1040	1037	1034	1032	1028	1024	1018
135°	1105	1112	1108	1108	1108	1105	1103	1101	1096	1093	1087
137.5°	1173	1175	1176	1175	1175	1172	1170	1166	1163	1159	1153
140°	1238	1243	1240	1240	1239	1236	1233	1230	1225	1221	1215
142.5°	1300	1302	1303	1302	1301	1298	1295	1292	1287	1283	1277
145°	1359	1364	1361	1361	1357	1359	1354	1351	1347	1343	1336
147.5°	1414	1417	1417	1416	1413	1414	1410	1406	1402	1398	1391
150°	1463	1466	1466	1463	1462	1462	1459	1455	1451	1447	1439
152.5°	1508	1511	1511	1508	1506	1506	1503	1499	1495	1491	1483
155°	1549	1553	1552	1549	1548	1547	1544	1541	1537	1533	1525
157.5°	1585	1589	1588	1586	1584	1582	1580	1577	1573	1568	1560
160°	1616	1616	1616	1613	1611	1610	1607	1604	1601	1596	1589
162.5°	1633	1635	1633	1632	1630	1630	1627	1625	1623	1618	1612
165°	1647	1650	1649	1648	1646	1645	1643	1642	1639	1635	1630
167.5°	1659	1661	1660	1658	1656	1655	1653	1651	1648	1644	1640
170°	1659	1660	1659	1658	1656	1655	1654	1652	1650	1646	1644
172.5°	1645	1646	1646	1647	1646	1645	1645	1645	1645	1643	1643
175°	1631	1632	1633	1634	1634	1634	1635	1636	1637	1636	1637
177.5°	1622	1623	1623	1623	1622	1622	1622	1623	1624	1624	1625
180°	1612	1612	1612	1612	1612	1612	1612	1612	1612	1612	1612



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CATALOG NUMBER: MPBL-2-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°	12	9	5	3	2	1	1	1	1	1	1
90°	43	40	33	27	25	21	16	9	3	1	1
92.5°	80	75	69	63	60	57	50	44	38	33	26
95°	118	114	106	100	97	93	86	79	73	68	60
97.5°	160	155	147	140	137	133	126	118	110	105	97
100°	205	200	191	184	180	175	167	161	150	144	135
102.5°	253	245	238	230	226	221	212	203	194	187	177
105°	304	296	289	281	276	271	258	250	240	232	221
107.5°	358	348	344	333	329	323	314	300	290	281	269
110°	414	404	400	389	384	378	365	353	342	332	319



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	474	464	459	447	442	436	422	409	397	386	372
115°	535	528	520	508	503	496	485	467	455	442	427
117.5°	598	591	583	571	565	558	543	527	514	501	484
120°	664	654	650	636	630	623	608	591	576	562	544
122.5°	732	721	713	703	696	689	673	655	639	624	605
125°	800	790	782	770	764	756	740	721	703	687	667
127.5°	869	859	851	838	832	824	808	788	769	752	731
130°	941	929	917	907	901	895	877	856	838	818	798
132.5°	1010	999	986	979	970	964	942	924	904	884	863
135°	1079	1068	1059	1047	1038	1032	1009	990	970	949	927
137.5°	1145	1133	1121	1113	1104	1097	1075	1055	1035	1013	991
140°	1207	1196	1184	1176	1168	1160	1138	1118	1098	1076	1053
142.5°	1269	1258	1246	1238	1230	1223	1199	1181	1160	1138	1115
145°	1328	1318	1306	1294	1288	1282	1258	1240	1219	1197	1175
147.5°	1383	1373	1361	1350	1344	1337	1314	1296	1276	1254	1233
150°	1432	1423	1411	1400	1394	1388	1366	1348	1329	1307	1287
152.5°	1478	1468	1458	1448	1441	1433	1415	1397	1379	1358	1337
155°	1520	1510	1500	1490	1484	1477	1458	1443	1426	1405	1386
157.5°	1555	1545	1536	1527	1521	1513	1496	1482	1464	1447	1429
160°	1584	1576	1567	1559	1552	1546	1530	1517	1501	1486	1469
162.5°	1608	1602	1594	1587	1581	1575	1560	1549	1535	1521	1506
165°	1627	1621	1615	1608	1603	1598	1584	1575	1563	1550	1539
167.5°	1637	1632	1627	1621	1617	1612	1601	1593	1583	1572	1563
170°	1642	1639	1635	1630	1627	1623	1614	1608	1600	1591	1583
172.5°	1642	1641	1639	1636	1633	1630	1623	1619	1613	1607	1600
175°	1638	1638	1637	1636	1634	1631	1627	1624	1621	1616	1612
177.5°	1628	1629	1630	1630	1629	1628	1625	1624	1622	1620	1618
180°	1612	1612	1612	1612	1612	1612	1612	1612	1612	1612	1612



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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°	1	1	1	1	1	1	1	1	1	1	1
87.5°	1	1	1	1	1	1	1	1	1	1	1
90°	2	2	3	3	3	3	4	4	5	5	5
92.5°	21	16	10	7	6	5	5	5	6	6	7
95°	56	51	44	40	37	29	26	21	19	16	13
97.5°	92	87	80	76	75	67	63	55	50	46	41
100°	130	124	118	114	112	107	103	96	91	86	82
102.5°	171	164	158	154	152	147	143	138	134	130	125
105°	212	207	200	196	195	189	185	180	177	174	170
107.5°	261	252	246	241	239	233	230	225	222	218	215
110°	309	301	294	289	287	280	276	272	269	266	262



TEST NUMBER: P27358

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	361	352	344	338	337	330	326	324	318	315	312
115°	416	405	397	392	389	381	377	374	369	366	363
117.5°	472	461	451	445	443	434	426	427	419	419	415
120°	531	519	509	502	499	489	485	482	475	472	469
122.5°	591	578	567	560	559	547	541	537	530	527	524
125°	653	639	629	619	615	605	598	594	587	583	581
127.5°	717	701	689	679	678	664	654	651	644	640	637
130°	780	764	750	740	738	724	714	709	703	696	695
132.5°	845	827	812	802	799	785	774	767	761	756	752
135°	909	890	874	864	861	847	834	827	819	814	809
137.5°	972	953	936	925	922	907	894	886	877	872	866
140°	1034	1014	996	986	982	966	952	943	934	927	922
142.5°	1096	1073	1057	1046	1042	1026	1011	1002	991	984	978
145°	1156	1132	1116	1104	1101	1085	1069	1059	1048	1040	1033
147.5°	1211	1190	1174	1162	1159	1143	1127	1117	1105	1094	1089
150°	1266	1249	1229	1220	1214	1198	1183	1171	1162	1148	1141
152.5°	1319	1300	1283	1274	1267	1252	1236	1225	1214	1199	1192
155°	1368	1352	1334	1326	1319	1304	1288	1277	1266	1252	1245
157.5°	1413	1398	1380	1371	1363	1352	1338	1327	1315	1302	1295
160°	1454	1441	1424	1417	1408	1398	1385	1374	1363	1350	1343
162.5°	1492	1479	1464	1458	1451	1441	1429	1420	1408	1396	1388
165°	1525	1515	1501	1495	1488	1480	1469	1460	1451	1439	1431
167.5°	1551	1542	1530	1523	1519	1512	1503	1496	1488	1478	1471
170°	1574	1566	1555	1549	1546	1541	1534	1528	1520	1513	1507
172.5°	1593	1587	1579	1573	1571	1568	1562	1557	1551	1544	1538
175°	1607	1603	1596	1592	1591	1589	1586	1583	1578	1572	1566
177.5°	1615	1613	1608	1605	1605	1605	1604	1603	1600	1596	1592
180°	1612	1612	1612	1612	1612	1612	1612	1612	1612	1612	1612



TEST NUMBER: P27358

CATALOG NUMBER: MPBL-2-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	1	1	1
87.5°	2	2	2	2	2	3	3	4
90°	6	6	6	6	7	7	7	7
92.5°	7	7	7	8	8	8	8	8
95°	13	12	11	10	10	10	9	10
97.5°	40	38	37	35	35	34	33	33
100°	77	73	71	69	68	67	65	66
102.5°	121	117	116	113	112	110	107	109
105°	169	164	162	159	160	158	153	154
107.5°	214	213	209	207	208	207	202	204
110°	262	261	257	255	256	255	251	253



TEST NUMBER: P27358

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	311	310	306	305	305	305	301	302
115°	362	362	358	356	357	356	355	354
117.5°	415	415	411	410	410	407	406	407
120°	470	469	466	464	465	462	463	462
122.5°	525	524	520	518	520	517	518	517
125°	581	580	576	574	576	573	574	573
127.5°	635	636	633	633	633	630	630	630
130°	692	692	689	688	690	686	686	686
132.5°	749	748	745	745	746	743	742	743
135°	805	804	801	800	802	798	797	798
137.5°	862	857	857	856	857	854	853	853
140°	917	914	912	910	912	908	907	908
142.5°	972	969	966	965	966	962	960	962
145°	1027	1023	1019	1018	1018	1015	1012	1014
147.5°	1082	1078	1073	1072	1072	1067	1065	1066
150°	1134	1129	1124	1123	1120	1118	1116	1116
152.5°	1185	1179	1176	1173	1169	1167	1165	1164
155°	1236	1231	1227	1224	1222	1217	1214	1214
157.5°	1284	1281	1277	1274	1270	1267	1264	1263
160°	1335	1329	1325	1322	1319	1314	1312	1310
162.5°	1377	1373	1368	1365	1363	1357	1354	1352
165°	1422	1416	1412	1409	1406	1400	1397	1395
167.5°	1461	1458	1455	1452	1449	1444	1441	1438
170°	1500	1496	1492	1490	1488	1483	1481	1479
172.5°	1531	1527	1523	1521	1518	1514	1511	1509
175°	1560	1556	1552	1551	1546	1540	1538	1535
177.5°	1586	1585	1582	1582	1577	1575	1573	1570
180°	1612	1612	1612	1612	1612	1612	1612	1612

(END OF REPORT)