

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: P27214

Luminaire Tested: **FMB-N-4-LD4-1UP/HI-40-UNV-80/86**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P27214
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMB-N-4-LD4-1UP/HI-40-UNV-80/86
Description: FAILSAFE LED 4FT FMB WALL MOUNT CORRECTIONAL LUMINAIRE
Light Source: (84) LUMILEDS 4000K LEDS
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 3.67' x L: 0.29' x H: 0.04')
CIE Type: Indirect

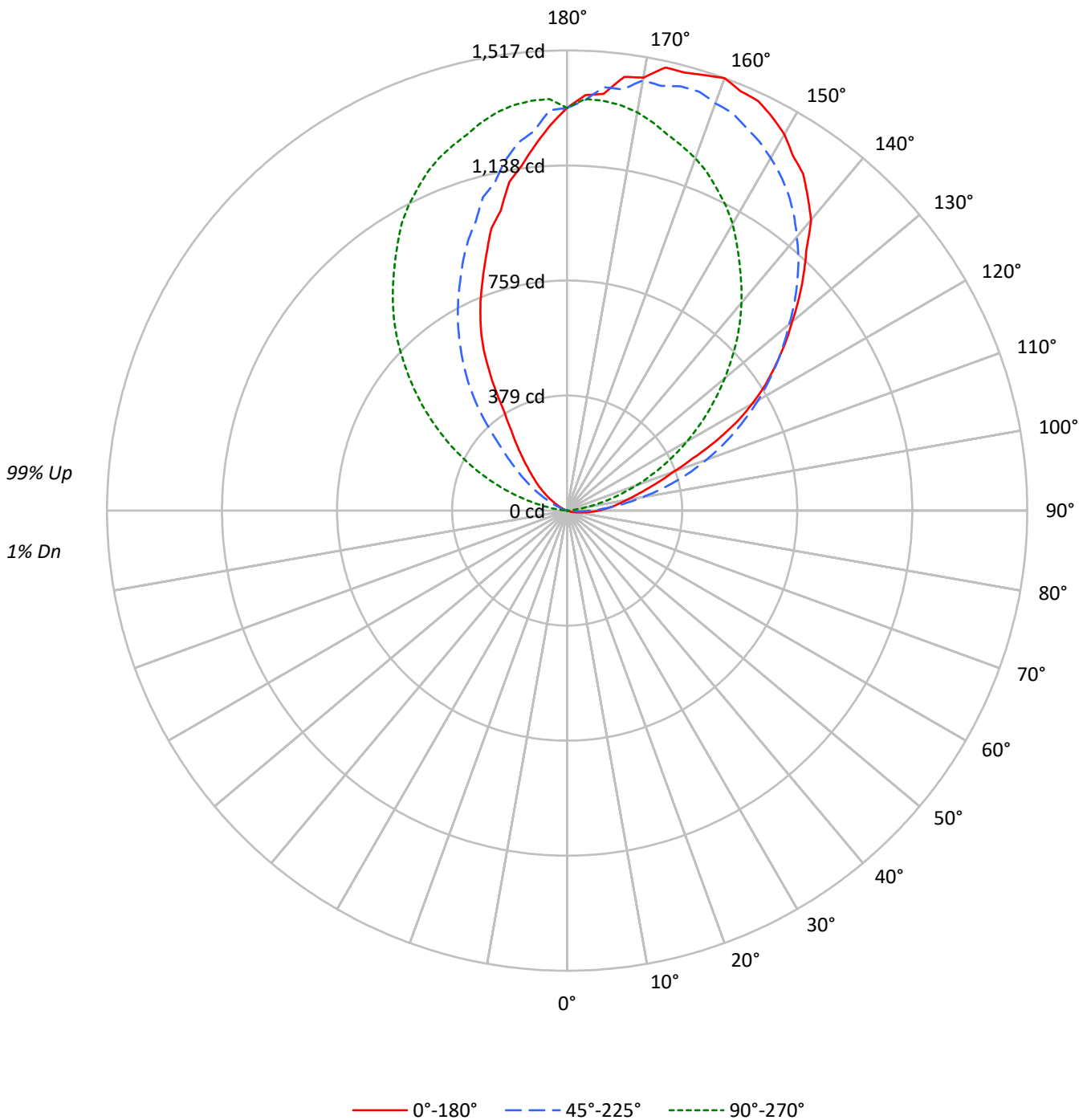
Input Watts (W): 45.2
Input Voltage (V): 120.03
Input Current (Ain): 0.37761
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.89%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

Luminous Intensity Polar Plot





TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	82	82	82	82	56	56	56	32	32	32	11	11	11	1
1	87	82	79	75	74	71	68	65	48	47	45	28	27	26	9	9	9	0
2	79	72	66	61	67	62	57	53	42	39	37	24	23	22	8	8	7	0
3	72	63	56	51	61	54	49	44	37	34	31	22	20	18	7	6	6	0
4	65	55	48	43	56	48	42	37	33	29	26	19	17	15	6	6	5	0
5	60	49	42	36	51	42	36	31	29	25	22	17	15	13	6	5	4	0
6	55	44	36	31	47	38	31	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	16	14	11	10	4	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	2	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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	57	21
75°	431	37	25
80°	1089	54	32
85°	2851	102	0



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

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°	0.1	0.0
70°-80°	4.0	0.1
80°-90°	19.5	0.6
90°-100°	68.0	2.2
100°-110°	169.8	5.4
110°-120°	318.2	10.1
120°-130°	455.9	14.5
130°-140°	547.8	17.4
140°-150°	575.4	18.3
150°-160°	514.1	16.3
160°-170°	353.3	11.2
170°-180°	125.7	4.0
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	23.6	0.8
90°-120°	556.0	17.6
90°-150°	2135.2	67.7
90°-180°	3128.0	99.2
0°-180°	3152.0	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°	17	1	1	1	1	17
85°	65	33	1	0	0	47
90°	104	79	0	0	0	57
95°	148	153	15	0	0	131
105°	269	369	145	3	0	291
115°	540	607	347	47	19	532
125°	840	843	567	158	74	751
135°	1103	1073	790	331	163	852
145°	1356	1272	991	599	320	844
155°	1490	1394	1169	834	675	684
165°	1495	1448	1282	1070	964	424
175°	1379	1401	1356	1255	1209	135
180°	1327	1327	1327	1327	1327	



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

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	1	1	1	1	1
72.5°	7	7	6	4	2	1	1	0	1	1	1
75°	17	17	17	16	15	14	13	9	4	1	1
77.5°	24	24	23	22	20	19	18	16	14	12	7
80°	34	34	33	32	30	28	27	23	20	17	14
82.5°	48	48	47	45	42	41	39	35	30	26	21
85°	65	64	63	62	58	56	54	49	44	38	33
87.5°	84	84	82	80	77	76	74	68	63	57	53
90°	104	104	103	101	99	96	95	91	86	82	79
92.5°	126	126	125	122	122	120	119	117	115	113	113
95°	148	149	148	147	147	146	147	148	149	151	153
97.5°	172	173	173	172	175	176	178	182	189	194	199
100°	198	199	200	202	209	211	215	226	237	242	251
102.5°	230	232	234	238	249	252	259	274	287	298	309
105°	269	272	276	283	296	300	308	324	348	359	369
107.5°	318	321	326	333	349	357	368	390	416	425	429
110°	373	376	383	395	419	429	442	463	484	487	488



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	446	452	464	478	502	510	520	536	549	547	548
115°	540	545	555	565	583	589	594	603	610	607	607
117.5°	629	631	639	646	656	658	662	669	671	668	667
120°	705	708	712	716	724	727	729	734	730	729	727
122.5°	777	776	781	782	788	791	792	795	792	790	785
125°	840	841	847	849	853	852	852	858	854	853	843
127.5°	906	907	909	908	912	914	920	918	916	912	900
130°	968	972	975	976	976	974	980	982	976	972	956
132.5°	1037	1036	1034	1036	1040	1042	1045	1042	1040	1031	1017
135°	1103	1103	1107	1107	1104	1103	1108	1111	1101	1093	1073
137.5°	1168	1171	1169	1175	1179	1179	1183	1174	1167	1151	1129
140°	1251	1255	1252	1253	1244	1240	1239	1236	1217	1202	1178
142.5°	1303	1305	1303	1303	1299	1295	1291	1278	1265	1244	1228
145°	1356	1356	1352	1344	1335	1330	1328	1322	1306	1285	1272
147.5°	1386	1387	1384	1384	1380	1376	1373	1358	1344	1324	1310
150°	1432	1435	1429	1419	1413	1409	1406	1394	1376	1355	1342
152.5°	1463	1463	1459	1451	1442	1437	1432	1419	1403	1383	1372
155°	1490	1489	1482	1473	1466	1460	1454	1440	1428	1413	1394
157.5°	1496	1495	1490	1485	1482	1480	1479	1467	1445	1427	1420
160°	1517	1514	1506	1493	1482	1479	1475	1467	1461	1451	1429
162.5°	1505	1507	1502	1498	1498	1498	1494	1480	1458	1447	1448
165°	1495	1492	1486	1475	1472	1472	1472	1471	1471	1469	1448
167.5°	1496	1496	1493	1487	1484	1484	1479	1465	1446	1436	1434
170°	1449	1449	1443	1436	1438	1439	1441	1445	1449	1451	1440
172.5°	1442	1441	1439	1433	1432	1434	1431	1425	1413	1411	1400
175°	1379	1381	1380	1379	1385	1388	1389	1392	1394	1401	1401
177.5°	1371	1371	1367	1359	1366	1364	1364	1363	1359	1356	1354
180°	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

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°	1	1	1	1	1	1	1	1	1	2	2
72.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
80°	11	7	1	1	1	1	1	1	1	1	1
82.5°	16	12	9	4	1	1	1	1	1	1	1
85°	27	22	15	10	8	6	1	1	1	1	1
87.5°	46	39	30	20	16	12	6	2	1	1	1
90°	72	64	53	39	32	26	16	8	2	0	0
92.5°	106	99	84	65	55	48	33	22	11	3	0
95°	148	139	121	98	88	78	60	45	29	15	7
97.5°	195	185	164	138	126	115	94	77	55	36	22
100°	248	235	215	183	170	158	138	116	91	66	44
102.5°	304	289	266	233	220	208	186	162	133	103	74
105°	360	344	320	286	274	261	239	213	181	145	112
107.5°	418	398	374	343	331	318	295	268	233	192	152
110°	476	455	431	401	388	375	352	323	286	242	198



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	534	513	490	459	447	433	407	380	343	294	247
115°	593	573	549	517	505	492	465	436	397	347	299
117.5°	652	632	607	576	561	552	524	493	451	401	353
120°	711	690	664	635	623	610	581	550	506	456	408
122.5°	768	747	722	691	680	667	637	605	561	511	469
125°	824	803	780	748	736	723	690	660	616	567	527
127.5°	880	859	836	804	790	777	746	712	671	623	584
130°	937	916	890	856	844	830	799	766	724	678	640
132.5°	996	972	944	907	896	883	851	816	780	733	696
135°	1053	1028	996	956	945	932	902	872	833	790	751
137.5°	1106	1074	1043	1004	996	983	953	921	883	843	805
140°	1155	1124	1087	1054	1045	1031	1004	971	934	894	856
142.5°	1202	1168	1133	1102	1092	1080	1053	1021	985	943	903
145°	1246	1211	1177	1146	1140	1128	1101	1069	1033	991	950
147.5°	1282	1247	1216	1190	1185	1173	1148	1115	1079	1041	999
150°	1314	1281	1251	1236	1224	1215	1193	1163	1124	1091	1049
152.5°	1347	1310	1291	1268	1263	1257	1230	1203	1167	1133	1093
155°	1368	1341	1315	1306	1299	1286	1270	1242	1205	1169	1137
157.5°	1396	1358	1348	1334	1322	1313	1303	1269	1246	1206	1177
160°	1403	1387	1366	1349	1347	1347	1325	1294	1276	1236	1215
162.5°	1431	1396	1371	1376	1375	1365	1336	1325	1301	1260	1249
165°	1416	1396	1399	1386	1374	1364	1356	1348	1315	1282	1276
167.5°	1428	1415	1393	1376	1372	1373	1378	1360	1326	1310	1299
170°	1412	1387	1376	1382	1388	1391	1386	1360	1333	1333	1319
172.5°	1386	1380	1390	1394	1394	1391	1377	1355	1340	1348	1337
175°	1394	1394	1381	1374	1371	1369	1363	1352	1348	1356	1355
177.5°	1340	1332	1334	1351	1355	1357	1356	1351	1348	1358	1362
180°	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

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°	2	2	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
85°	1	1	1	1	1	1	1	1	0	0	0
87.5°	1	1	1	0	0	0	0	0	0	0	0
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°	3	0	0	0	0	0	0	0	0	0	0
97.5°	11	6	1	0	0	0	0	0	0	0	0
100°	28	16	9	7	5	0	0	0	0	0	0
102.5°	52	34	21	17	13	9	4	0	0	0	0
105°	83	58	41	34	27	17	12	10	3	0	0
107.5°	121	90	69	59	49	33	21	16	13	12	6
110°	163	128	102	91	77	55	37	26	20	17	15



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	209	171	140	127	113	83	58	42	31	25	21
115°	260	219	185	169	154	117	85	64	47	38	32
117.5°	314	271	233	215	199	158	117	91	69	56	47
120°	368	325	284	265	247	203	154	121	96	78	66
122.5°	421	380	337	316	297	252	195	155	126	103	88
125°	479	436	392	369	349	305	242	192	158	132	113
127.5°	535	492	447	423	401	357	295	234	194	164	141
130°	592	548	502	479	455	411	349	283	232	198	173
132.5°	648	604	557	534	510	463	407	342	277	236	208
135°	702	657	611	590	566	517	464	406	331	279	243
137.5°	754	710	662	640	619	570	517	469	400	332	287
140°	807	760	713	692	671	622	571	528	471	404	340
142.5°	857	810	764	743	722	679	626	585	538	486	418
145°	905	859	814	794	775	735	681	642	599	559	507
147.5°	952	907	863	843	825	786	739	700	659	625	584
150°	1000	955	912	893	874	838	793	758	721	687	651
152.5°	1045	1003	955	941	922	891	849	816	778	747	715
155°	1090	1045	1003	984	971	939	901	871	834	810	775
157.5°	1131	1086	1052	1031	1013	994	951	928	895	869	846
160°	1172	1123	1098	1079	1057	1038	1007	972	951	934	902
162.5°	1211	1162	1139	1128	1108	1079	1061	1036	1000	985	971
165°	1245	1196	1172	1167	1157	1133	1098	1085	1070	1053	1018
167.5°	1276	1233	1201	1194	1190	1185	1157	1127	1106	1104	1093
170°	1302	1270	1238	1226	1217	1215	1209	1196	1172	1157	1133
172.5°	1320	1300	1277	1265	1252	1243	1231	1226	1224	1224	1213
175°	1336	1322	1311	1307	1300	1295	1280	1268	1255	1252	1243
177.5°	1348	1331	1324	1322	1323	1328	1328	1324	1321	1318	1313
180°	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

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°	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1
82.5°	1	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0
87.5°	0	0	0	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°	14	12	10	8	3	0	0	0



TEST NUMBER: P27214

CATALOG NUMBER: FMB-N-4-LD4-1UP/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	18	17	16	16	15	15	15	14
115°	27	25	24	22	21	20	20	19
117.5°	41	37	35	34	31	30	29	29
120°	57	52	50	48	45	43	42	41
122.5°	77	70	67	65	61	59	58	57
125°	99	91	87	84	79	77	76	74
127.5°	124	113	108	105	100	97	96	94
130°	152	138	133	128	122	119	117	116
132.5°	185	167	161	156	147	143	140	138
135°	220	201	194	187	174	169	166	163
137.5°	258	237	230	223	208	201	196	193
140°	303	279	269	262	246	238	233	229
142.5°	364	330	318	306	291	281	276	272
145°	451	401	383	367	344	333	326	320
147.5°	545	504	483	461	425	408	395	386
150°	621	587	576	564	538	522	514	493
152.5°	685	658	651	644	627	614	606	596
155°	749	728	722	713	697	687	681	675
157.5°	820	793	786	779	767	762	757	746
160°	879	864	861	856	843	834	826	813
162.5°	951	926	921	915	901	894	891	885
165°	998	988	986	985	982	979	972	964
167.5°	1075	1059	1052	1044	1033	1026	1019	1012
170°	1117	1107	1107	1107	1108	1105	1102	1099
172.5°	1197	1184	1180	1173	1166	1161	1155	1147
175°	1233	1226	1226	1225	1225	1218	1212	1209
177.5°	1302	1293	1294	1289	1288	1285	1279	1272
180°	1327	1327	1327	1327	1327	1327	1327	1327

(END OF REPORT)