

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: P27215

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P27215
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-LD4-1DN/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: 3088.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.2 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 3.67' x L: 0.29' x H: 0.04')
CIE Type: Direct

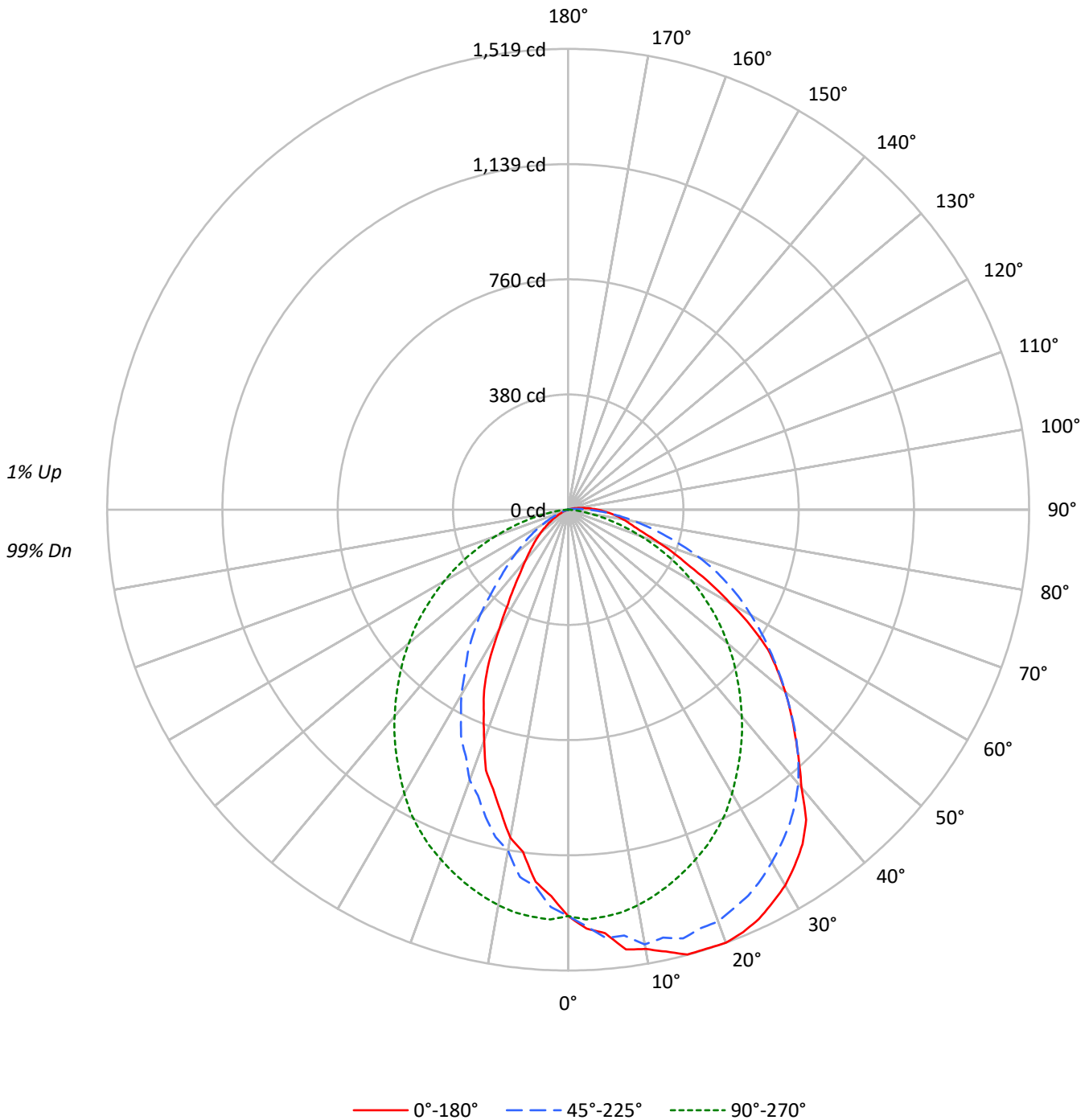
Input Watts (W): 45.1
Input Voltage (V): 120.06
Input Current (Ain): 0.37696
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.29%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99								
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	90	88	86	84								
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72								
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61								
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	64	59	55	53								
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	58	53	49	46								
6	72	59	51	45	70	58	50	44	57	49	44	55	48	43	53	48	43	41								
7	67	54	46	40	65	53	45	40	52	44	39	50	44	39	49	43	39	37								
8	63	50	41	36	61	49	41	36	47	40	35	46	40	35	45	39	35	33								
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30								
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13477	13477	13477
5°	13980	13596	12284
10°	14655	13505	10946
15°	15234	13307	9574
20°	15466	13088	8237
25°	15493	12837	6830
30°	15353	12470	4874
35°	15034	12032	3429
40°	14032	11583	2558
45°	13190	11090	2030
50°	12497	10598	1579
55°	11718	10015	1151
60°	9957	9318	758
65°	8058	8463	456
70°	6741	7277	148
75°	5859	5745	0
80°	5892	3921	0
85°	6097	1942	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	4.1
10°-20°	352.6	11.4
20°-30°	509.8	16.5
30°-40°	567.6	18.4
40°-50°	537.0	17.4
50°-60°	447.2	14.5
60°-70°	303.9	9.8
70°-80°	158.7	5.1
80°-90°	63.7	2.1
90°-100°	18.3	0.6
100°-110°	3.4	0.1
110°-120°	0.1	0.0
120°-130°	0.0	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°	988.2	32.0
0°-40°	1555.7	50.4
0°-60°	2539.9	82.2
0°-90°	3066.3	99.3
90°-120°	21.8	0.7
90°-150°	21.8	0.7
90°-180°	22.0	0.7
0°-180°	3088.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1339	1339	1339	1339	1339	
5°	1401	1417	1347	1245	1231	137
15°	1518	1463	1281	1049	954	427
25°	1488	1404	1162	834	656	685
35°	1346	1270	987	577	307	835
45°	1059	1062	788	316	163	819
55°	804	812	580	156	79	707
65°	442	582	364	54	25	449
75°	231	333	154	9	0	252
85°	139	136	19	0	0	123
90°	98	70	1	1	0	54
95°	60	31	1	1	0	44
105°	15	1	1	1	0	16
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
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°	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339
2.5°	1382	1384	1386	1389	1387	1387	1388	1388	1383	1386	1374
5°	1401	1402	1406	1407	1405	1406	1408	1411	1415	1421	1417
7.5°	1462	1464	1466	1466	1458	1456	1455	1449	1442	1434	1416
10°	1470	1472	1472	1468	1460	1458	1458	1457	1458	1465	1455
12.5°	1492	1496	1497	1497	1494	1495	1493	1488	1476	1464	1445
15°	1518	1520	1518	1513	1501	1494	1489	1480	1476	1478	1463
17.5°	1517	1516	1512	1509	1506	1506	1503	1495	1485	1467	1447
20°	1519	1521	1516	1512	1504	1500	1495	1478	1468	1462	1444
22.5°	1507	1510	1505	1497	1486	1482	1477	1465	1457	1443	1423
25°	1488	1491	1486	1477	1467	1464	1460	1447	1431	1419	1404
27.5°	1459	1462	1458	1452	1445	1443	1435	1420	1405	1395	1375
30°	1430	1432	1431	1424	1412	1405	1400	1389	1377	1360	1342
32.5°	1390	1393	1389	1382	1374	1371	1370	1354	1339	1323	1306
35°	1346	1348	1350	1347	1337	1334	1329	1313	1304	1286	1270
37.5°	1288	1292	1294	1290	1284	1283	1283	1274	1259	1243	1226
40°	1196	1201	1207	1211	1212	1215	1218	1213	1211	1193	1179
42.5°	1125	1131	1131	1132	1133	1131	1137	1141	1143	1135	1123
45°	1059	1062	1062	1062	1062	1064	1068	1068	1073	1068	1062
47.5°	996	1000	1001	1002	999	997	1001	1003	1006	1003	998
50°	934	942	942	940	938	938	940	940	945	940	934
52.5°	869	875	878	880	882	880	881	881	882	881	873
55°	804	807	814	818	819	818	820	822	824	820	812
57.5°	715	725	731	744	753	753	758	761	765	761	754
60°	617	626	637	653	671	676	687	698	705	703	696
62.5°	530	529	544	562	581	590	600	624	642	645	640
65°	442	441	454	471	492	508	516	541	571	584	582
67.5°	379	379	389	396	414	427	435	464	494	515	523
70°	319	320	328	340	355	364	369	393	419	443	459
72.5°	266	269	273	284	298	308	317	334	357	376	394
75°	231	233	235	239	248	257	263	282	302	316	333
77.5°	206	207	207	208	211	215	219	233	252	266	276
80°	184	185	184	184	184	185	186	191	205	217	224
82.5°	162	162	161	160	159	160	159	161	163	172	179
85°	139	139	138	137	135	135	134	132	132	132	136
87.5°	118	118	116	115	113	111	109	106	105	101	99
90°	98	98	96	95	92	90	88	84	80	75	70
92.5°	78	78	77	75	73	71	69	64	60	53	47
95°	60	60	59	57	55	53	51	46	42	36	31
97.5°	45	45	44	42	40	38	36	32	29	23	20
100°	32	31	31	29	27	26	25	22	19	15	13
102.5°	22	21	21	20	18	17	17	15	13	10	6
105°	15	15	15	14	13	12	11	8	3	1	1
107.5°	7	6	5	3	2	1	1	0	1	1	1
110°	0	0	0	0	0	0	0	0	0	1	1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
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°	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339
2.5°	1363	1359	1352	1344	1340	1338	1336	1341	1350	1352	1351
5°	1409	1406	1396	1378	1370	1361	1346	1342	1345	1347	1347
7.5°	1398	1396	1397	1394	1390	1383	1362	1344	1340	1339	1338
10°	1433	1411	1390	1381	1380	1380	1372	1351	1331	1324	1320
12.5°	1431	1430	1412	1380	1368	1361	1361	1351	1322	1304	1299
15°	1432	1410	1404	1390	1374	1354	1336	1338	1312	1281	1269
17.5°	1430	1412	1384	1368	1365	1354	1319	1311	1298	1255	1239
20°	1411	1392	1378	1346	1336	1330	1307	1279	1274	1227	1206
22.5°	1400	1374	1351	1332	1318	1302	1285	1252	1242	1197	1166
25°	1373	1350	1326	1299	1291	1278	1249	1224	1205	1162	1124
27.5°	1347	1320	1297	1268	1255	1244	1212	1189	1159	1125	1080
30°	1314	1288	1259	1233	1220	1205	1176	1147	1116	1080	1032
32.5°	1278	1251	1222	1191	1178	1165	1132	1099	1073	1033	985
35°	1238	1210	1180	1150	1134	1122	1087	1055	1027	987	938
37.5°	1196	1168	1137	1105	1087	1073	1039	1011	978	940	893
40°	1149	1121	1089	1056	1039	1026	993	960	929	890	841
42.5°	1098	1071	1040	1008	991	976	945	913	879	839	794
45°	1041	1017	990	959	942	927	897	862	829	788	743
47.5°	983	962	939	910	891	879	846	814	779	739	692
50°	926	906	885	855	840	825	795	760	728	686	640
52.5°	866	849	830	803	788	772	742	711	677	635	585
55°	806	793	773	747	732	717	689	659	624	580	532
57.5°	745	731	715	691	680	662	635	605	570	525	477
60°	687	672	657	634	621	607	580	552	516	472	420
62.5°	632	615	596	576	566	551	524	496	461	420	366
65°	570	554	536	516	506	492	467	440	405	364	312
67.5°	515	497	477	455	447	434	410	383	349	309	259
70°	459	439	418	396	386	376	351	327	294	255	208
72.5°	399	384	361	337	327	316	294	271	238	202	163
75°	337	328	305	282	271	260	241	216	186	154	119
77.5°	279	273	253	229	221	207	185	166	138	110	81
80°	226	218	201	182	172	158	138	121	95	72	50
82.5°	178	171	154	137	128	117	96	81	60	41	26
85°	135	126	113	97	88	79	62	48	32	19	10
87.5°	96	88	78	63	56	48	35	24	13	5	3
90°	66	57	47	37	32	26	17	9	4	1	1
92.5°	42	35	27	19	16	12	7	3	1	1	1
95°	25	19	14	9	8	6	1	1	1	1	1
97.5°	15	12	8	4	1	1	1	1	1	1	1
100°	10	6	1	1	1	1	1	1	1	1	1
102.5°	1	1	1	1	1	1	1	1	1	1	1
105°	1	1	1	1	1	1	1	1	1	1	1
107.5°	1	1	1	1	1	1	1	1	1	1	1
110°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
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°	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339
2.5°	1352	1345	1337	1332	1329	1319	1310	1311	1311	1313	1300
5°	1343	1328	1311	1299	1289	1265	1249	1243	1245	1247	1239
7.5°	1327	1298	1268	1251	1240	1221	1217	1220	1221	1213	1191
10°	1299	1255	1222	1213	1210	1202	1187	1162	1141	1130	1121
12.5°	1269	1218	1194	1191	1186	1152	1118	1100	1105	1104	1076
15°	1232	1182	1167	1157	1138	1089	1076	1072	1049	1021	1007
17.5°	1194	1152	1131	1106	1078	1053	1040	1003	988	987	962
20°	1155	1117	1082	1051	1035	1017	975	961	949	915	893
22.5°	1112	1081	1031	1009	1001	960	931	914	880	868	831
25°	1071	1039	985	972	958	908	889	853	834	793	763
27.5°	1028	993	943	930	903	869	830	808	765	734	689
30°	982	945	901	879	853	818	781	742	703	659	623
32.5°	937	895	853	826	807	763	729	682	632	597	553
35°	893	847	804	778	761	716	669	621	577	529	477
37.5°	848	799	753	733	712	664	614	561	512	455	391
40°	797	753	705	682	661	608	557	506	449	381	327
42.5°	752	704	656	632	610	555	501	445	377	319	277
45°	701	652	605	580	556	501	449	387	316	271	235
47.5°	649	600	551	530	503	448	394	324	269	229	199
50°	596	546	499	474	449	396	339	274	228	193	168
52.5°	542	493	445	420	397	346	286	230	189	161	141
55°	486	438	391	368	344	296	237	191	156	132	115
57.5°	431	384	340	316	294	246	194	156	125	106	92
60°	377	330	286	266	246	200	156	123	98	83	71
62.5°	323	278	238	220	200	157	121	94	75	62	53
65°	271	228	188	174	156	119	89	68	54	45	39
67.5°	218	179	147	133	117	86	63	47	37	31	27
70°	172	136	108	95	82	57	41	31	25	21	19
72.5°	129	97	74	63	53	35	25	19	17	15	12
75°	90	65	46	38	31	21	15	13	9	2	0
77.5°	58	39	26	20	16	11	9	2	0	0	0
80°	33	20	12	10	8	2	1	1	1	0	0
82.5°	16	9	5	2	1	1	1	1	1	1	0
85°	6	2	1	1	1	1	1	1	0	0	0
87.5°	1	1	1	1	1	1	1	1	1	0	0
90°	1	1	1	1	1	1	1	1	1	0	0
92.5°	1	1	1	1	1	1	1	1	1	0	0
95°	1	1	1	1	1	1	1	1	1	1	0
97.5°	1	1	1	1	1	1	1	1	1	1	0
100°	1	1	1	1	1	1	1	1	1	1	0
102.5°	1	1	1	1	1	1	1	1	0	0	0
105°	1	1	1	1	1	1	1	1	1	1	0
107.5°	1	1	1	1	1	1	1	1	1	0	0
110°	1	1	1	1	1	1	1	1	1	0	0



TEST NUMBER: P27215

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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
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: P27215

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1339	1339	1339	1339	1339	1339	1339	1339
2.5°	1286	1291	1283	1276	1272	1272	1272	1275
5°	1235	1234	1233	1231	1227	1230	1231	1231
7.5°	1165	1157	1152	1143	1137	1137	1138	1138
10°	1117	1115	1112	1107	1101	1098	1097	1098
12.5°	1051	1032	1027	1021	1019	1021	1021	1022
15°	1005	999	990	981	967	961	952	954
17.5°	933	919	914	911	904	905	900	901
20°	882	862	844	834	815	811	809	809
22.5°	799	783	773	763	745	732	726	726
25°	733	703	690	681	669	659	654	656
27.5°	662	637	623	608	587	578	570	565
30°	587	559	542	529	495	474	461	454
32.5°	512	465	443	422	396	381	373	369
35°	422	378	363	348	328	316	310	307
37.5°	349	315	303	290	273	263	259	256
40°	294	265	255	245	231	224	220	218
42.5°	249	225	217	209	199	193	190	188
45°	211	192	186	179	171	166	165	163
47.5°	180	163	158	154	147	143	141	140
50°	152	138	134	130	124	120	119	118
52.5°	126	116	112	107	103	100	98	97
55°	104	94	91	88	84	81	80	79
57.5°	82	75	72	71	66	64	62	62
60°	64	58	55	54	50	49	48	47
62.5°	47	43	41	40	37	36	35	34
65°	33	31	29	29	27	26	26	25
67.5°	24	22	21	21	20	19	19	19
70°	17	16	15	15	10	8	7	7
72.5°	5	2	1	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°	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°	0	0	0	0	0	0	0	0



TEST NUMBER: P27215

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

CANDELA DISTRIBUTION (continued):

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