

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: P27159

Luminaire Tested: **FMB-N-2-LD4-1UP/LO-40-UNV-80/86**

Test Date: 12/02/15

**Test Information**

Test Method: LM-79-08  
Report Number: P27159  
Test Lab: INNOVATION CENTER-P2  
Test Date: 12/02/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FMB-N-2-LD4-1UP/LO-40-UNV-80/86  
Description: FAILSAFE LED 2FT FMB WALL MOUNT CORRECTIONAL LUMINAIRE  
Light Source: (42) LUMILEDS 4000K LEDS  
2UT217042A8404A  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER  
OT25W

**Summary**

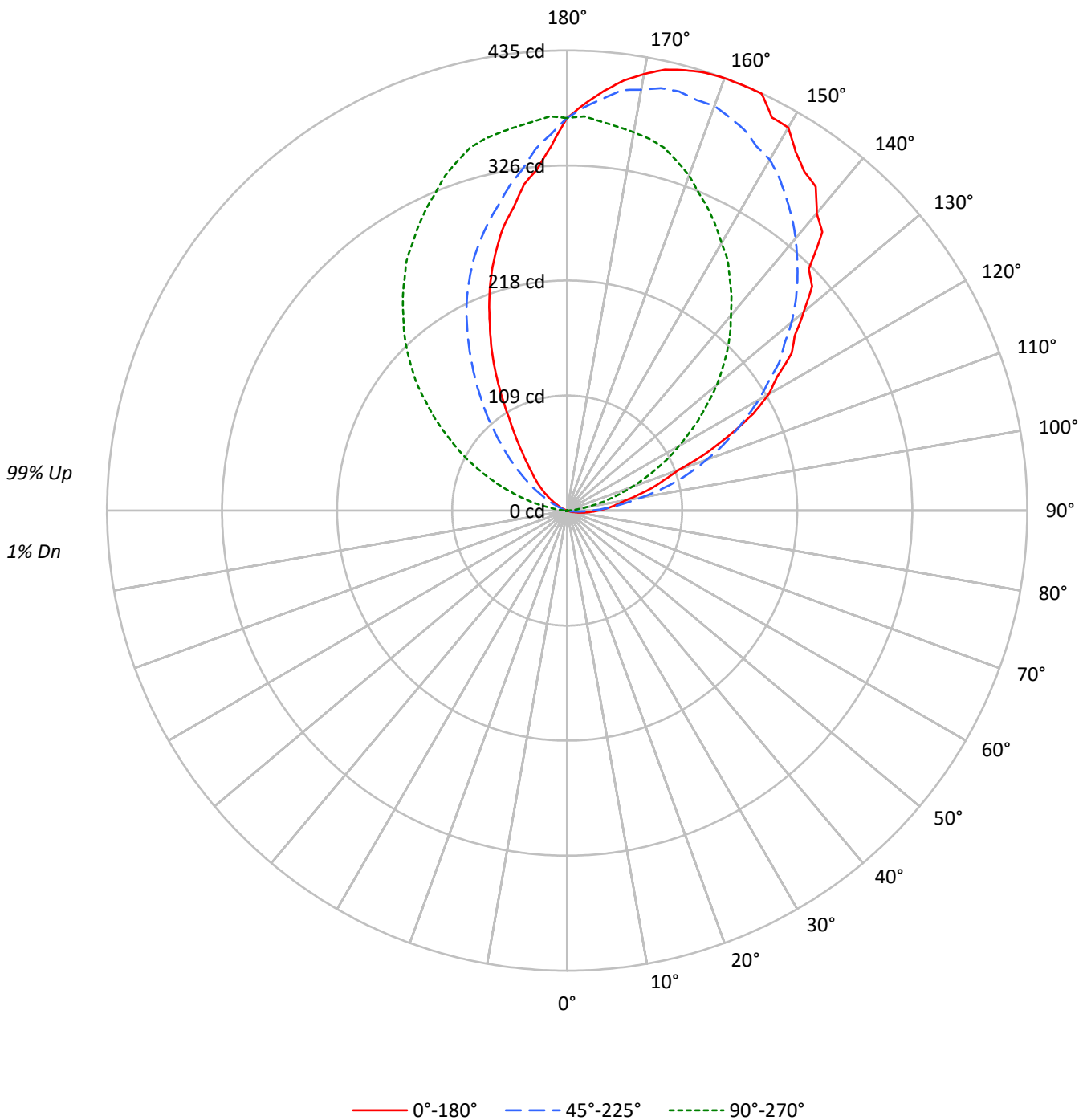
Lumens per Lamp: N/A  
Luminaire Lumens: 885.8 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 1.75' x L: 0.29' x H: 0.04')  
CIE Type: Indirect  
  
Input Watts (W): 12.7  
Input Voltage (V): 120.04  
Input Current (Ain): 0.10707  
Voltage Rise (V): NR  
Power Factor: 0.9926  
Total Harmonic Distortion (THDi): 7.51%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 24 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-40-UNV-80/86

### 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	0
RCR																		
0	95	95	95	95	82	82	82	82	56	56	56	33	33	33	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	58	0
75°	266	75	0
80°	738	107	0
85°	1746	0	0



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-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°	0.0	0.0
70°-80°	1.2	0.1
80°-90°	5.8	0.7
90°-100°	19.9	2.2
100°-110°	49.0	5.5
110°-120°	92.2	10.4
120°-130°	129.6	14.6
130°-140°	154.0	17.4
140°-150°	159.3	18.0
150°-160°	142.0	16.0
160°-170°	98.0	11.1
170°-180°	34.8	3.9
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	7.0	0.8
90°-120°	161.1	18.2
90°-150°	604.0	68.2
90°-180°	879.0	99.2
0°-180°	885.8	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°	5	0	1	0	0	6
85°	19	10	0	0	0	14
90°	29	23	1	0	0	16
95°	42	44	5	0	0	37
105°	83	107	40	1	0	88
115°	170	174	93	13	6	167
125°	259	245	153	42	20	228
135°	323	308	214	87	43	255
145°	391	361	268	151	84	246
155°	435	397	315	224	169	198
165°	431	410	355	284	257	122
175°	398	391	369	343	324	39
180°	371	371	371	371	371	



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-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	0	0	0	0	0
72.5°	4	4	4	3	2	1	1	0	0	0	0
75°	5	5	5	5	5	4	4	4	3	1	0
77.5°	7	7	7	7	6	6	6	5	4	4	3
80°	11	10	10	10	9	9	8	7	6	5	4
82.5°	15	14	14	13	13	12	12	10	9	8	6
85°	19	19	19	18	17	16	16	15	13	12	10
87.5°	24	24	24	23	23	22	21	20	19	18	16
90°	29	30	30	29	29	28	28	26	26	24	23
92.5°	36	36	36	35	35	35	34	34	34	34	33
95°	42	42	42	42	42	42	43	44	44	45	44
97.5°	49	48	49	50	51	51	53	54	55	56	56
100°	56	56	58	60	62	63	64	66	67	69	72
102.5°	69	69	71	72	75	75	76	79	81	87	89
105°	83	83	84	86	88	88	90	95	101	106	107
107.5°	96	97	98	100	104	106	109	118	123	126	124
110°	112	112	116	120	129	133	136	143	145	143	140



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-40-UNV-80/86

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	143	143	149	152	158	158	161	164	163	161	158
115°	170	171	175	179	183	181	183	183	181	179	174
117.5°	198	199	198	199	201	201	203	201	197	194	191
120°	220	222	223	221	220	218	220	218	214	212	209
122.5°	235	236	237	240	239	236	236	235	233	229	225
125°	259	262	257	253	255	255	254	251	251	248	245
127.5°	271	274	274	275	270	268	269	270	268	263	259
130°	292	288	287	287	293	293	289	288	286	283	277
132.5°	314	315	317	311	305	306	308	308	304	300	293
135°	323	325	325	329	334	331	327	326	324	316	308
137.5°	357	357	354	348	346	346	347	343	339	331	322
140°	367	363	367	369	366	361	360	358	354	344	336
142.5°	386	382	380	377	372	374	375	371	363	356	349
145°	391	393	394	394	389	386	382	382	377	369	361
147.5°	402	402	400	398	396	398	396	393	386	380	373
150°	418	418	417	414	407	405	402	401	393	388	383
152.5°	419	419	418	417	416	415	413	408	400	396	388
155°	435	431	427	425	419	418	419	417	409	405	397
157.5°	435	434	433	435	429	424	423	420	416	409	402
160°	435	438	432	429	430	427	426	423	417	412	407
162.5°	434	437	434	432	428	424	425	423	420	416	407
165°	431	434	431	430	432	426	427	423	418	414	410
167.5°	427	430	427	424	423	421	423	420	417	412	409
170°	419	422	420	418	417	414	416	412	410	408	404
172.5°	410	408	411	409	407	405	408	406	405	402	401
175°	398	397	395	397	397	395	396	394	393	394	391
177.5°	385	386	387	386	385	385	385	384	384	385	382
180°	371	371	371	371	371	371	371	371	371	371	371



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-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°	0	0	0	0	0	0	0	1	1	1	0
72.5°	0	0	0	0	0	0	0	0	0	1	0
75°	0	0	0	0	0	0	1	1	1	1	1
77.5°	1	0	0	0	0	0	0	0	0	0	0
80°	3	3	1	0	0	0	0	0	0	1	0
82.5°	5	4	3	2	1	0	0	0	0	0	0
85°	9	7	5	3	3	2	1	0	0	0	0
87.5°	14	12	10	7	6	4	3	1	0	0	0
90°	22	20	17	13	11	9	6	3	1	1	0
92.5°	31	30	26	21	18	15	11	7	4	2	1
95°	43	42	37	31	28	24	18	13	9	5	3
97.5°	57	55	49	42	38	33	27	21	16	11	6
100°	72	69	63	54	50	45	39	32	26	19	12
102.5°	88	84	77	69	64	58	51	44	37	29	20
105°	105	100	91	83	78	73	66	58	50	40	29
107.5°	121	115	107	98	94	88	81	73	63	52	40
110°	138	131	123	114	110	104	97	87	77	65	52





TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-40-UNV-80/86

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	155	148	140	130	126	121	113	103	91	79	65
115°	171	165	156	146	142	137	129	118	106	93	79
117.5°	189	183	174	162	158	154	144	134	121	108	94
120°	206	200	190	179	175	169	160	148	136	122	109
122.5°	223	216	206	195	191	185	175	163	151	137	125
125°	239	233	221	211	207	200	190	179	167	153	140
127.5°	254	248	235	226	220	213	204	194	181	168	156
130°	269	262	252	240	235	229	218	209	196	185	171
132.5°	285	277	266	255	249	245	235	224	211	199	186
135°	300	292	281	269	264	259	249	238	225	214	201
137.5°	315	305	295	281	277	274	263	253	240	228	215
140°	329	318	309	296	292	286	278	266	253	241	228
142.5°	342	330	324	308	305	299	291	279	267	255	241
145°	354	345	335	324	320	313	304	293	279	268	254
147.5°	365	355	347	337	332	325	318	305	293	282	268
150°	375	366	359	349	344	339	330	317	307	292	279
152.5°	382	376	367	358	354	350	340	329	318	304	292
155°	390	383	377	367	366	360	351	342	331	315	303
157.5°	398	390	384	375	374	371	361	350	338	325	313
160°	401	395	389	383	380	377	369	359	347	337	325
162.5°	403	398	392	388	387	385	376	367	358	346	334
165°	404	399	394	395	388	386	381	373	364	355	341
167.5°	404	400	397	395	390	389	386	376	369	360	350
170°	402	400	397	396	392	391	386	379	372	363	356
172.5°	397	394	392	391	391	389	388	384	374	366	359
175°	388	389	389	388	391	389	387	385	379	369	365
177.5°	380	381	382	382	384	383	380	381	378	373	368
180°	371	371	371	371	371	371	371	371	371	371	371



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-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°	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	1	1	0	1	0	0	1	0	0	0
77.5°	1	0	1	0	0	0	0	0	1	0	0
80°	0	0	0	0	0	0	0	0	0	0	1
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	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°	1	0	0	0	0	0	0	0	0	0	0
97.5°	3	2	1	0	0	0	0	0	0	0	0
100°	7	5	3	2	1	0	0	0	0	0	0
102.5°	13	9	6	5	4	2	1	0	0	0	0
105°	21	16	11	9	7	5	3	2	1	0	0
107.5°	30	24	18	15	13	9	6	5	4	2	1
110°	41	34	27	23	20	14	10	7	6	5	4



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-40-UNV-80/86

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	54	47	38	34	30	22	16	12	9	7	6
115°	69	59	49	44	40	31	23	17	13	11	9
117.5°	82	74	63	57	51	41	32	24	19	15	13
120°	98	88	76	70	64	52	42	33	25	21	18
122.5°	113	102	90	84	76	64	52	42	33	28	24
125°	129	117	105	98	90	77	64	53	42	35	30
127.5°	144	132	119	112	104	90	77	64	52	44	38
130°	159	147	133	127	119	104	89	76	63	53	46
132.5°	173	162	148	142	133	118	103	89	75	64	55
135°	188	176	163	156	148	133	118	103	87	75	66
137.5°	202	190	178	171	163	148	133	117	102	88	78
140°	216	204	191	184	178	163	148	133	118	103	91
142.5°	228	216	205	198	191	178	163	148	134	120	108
145°	242	230	217	212	207	194	179	165	151	138	126
147.5°	254	245	231	226	221	209	196	182	169	157	144
150°	266	257	245	239	234	224	212	198	187	178	164
152.5°	279	269	258	254	246	237	228	215	206	197	184
155°	291	282	270	266	260	251	243	232	224	216	204
157.5°	302	291	282	278	273	263	257	248	240	235	224
160°	312	302	292	292	286	275	270	262	256	251	243
162.5°	322	315	304	302	299	289	284	277	270	267	259
165°	332	324	316	313	312	302	297	289	284	281	276
167.5°	342	336	325	323	322	315	310	303	297	296	290
170°	347	342	337	334	332	326	320	316	312	309	306
172.5°	356	350	347	343	344	338	333	331	325	323	320
175°	362	356	357	356	354	351	346	347	343	339	336
177.5°	368	363	362	362	361	364	359	359	356	354	353
180°	371	371	371	371	371	371	371	371	371	371	371



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-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°	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	1	1	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°	3	2	1	1	0	0	0	0



TEST NUMBER: P27159

CATALOG NUMBER: FMB-N-2-LD4-1UP/LO-40-UNV-80/86

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	6	5	5	5	5	4	4	4
115°	8	7	7	7	7	6	6	6
117.5°	11	10	10	9	9	9	8	8
120°	16	14	14	13	13	12	11	11
122.5°	21	19	18	18	17	16	16	15
125°	27	24	23	22	22	21	20	20
127.5°	33	30	29	28	27	26	25	25
130°	40	37	35	34	33	32	31	31
132.5°	48	44	42	41	40	38	37	37
135°	57	52	49	48	47	45	44	43
137.5°	68	61	59	56	54	52	51	50
140°	80	73	70	67	64	61	59	59
142.5°	95	86	83	79	77	72	70	70
145°	113	103	99	95	92	87	84	84
147.5°	134	123	119	113	110	104	101	100
150°	154	145	141	136	133	126	123	122
152.5°	174	166	163	158	155	150	146	146
155°	195	187	185	181	178	173	170	169
157.5°	215	208	206	203	201	196	192	191
160°	236	229	226	224	222	218	215	215
162.5°	254	249	247	245	243	239	237	237
165°	271	266	263	262	261	258	256	257
167.5°	288	283	281	281	280	277	275	276
170°	305	297	297	296	295	293	291	291
172.5°	320	315	315	313	313	310	309	311
175°	336	330	330	329	328	325	323	324
177.5°	354	349	349	348	349	347	345	345
180°	371	371	371	371	371	371	371	371

(END OF REPORT)