

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: P27158

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

Test Date: 12/01/15

Test Information

Test Method: LM-79-08
Report Number: P27158
Test Lab: INNOVATION CENTER-P2
Test Date: 12/01/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMB-N-2-LD4-1UP/STD-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: 1204.8 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.29' x H: 0.04')
CIE Type: Indirect

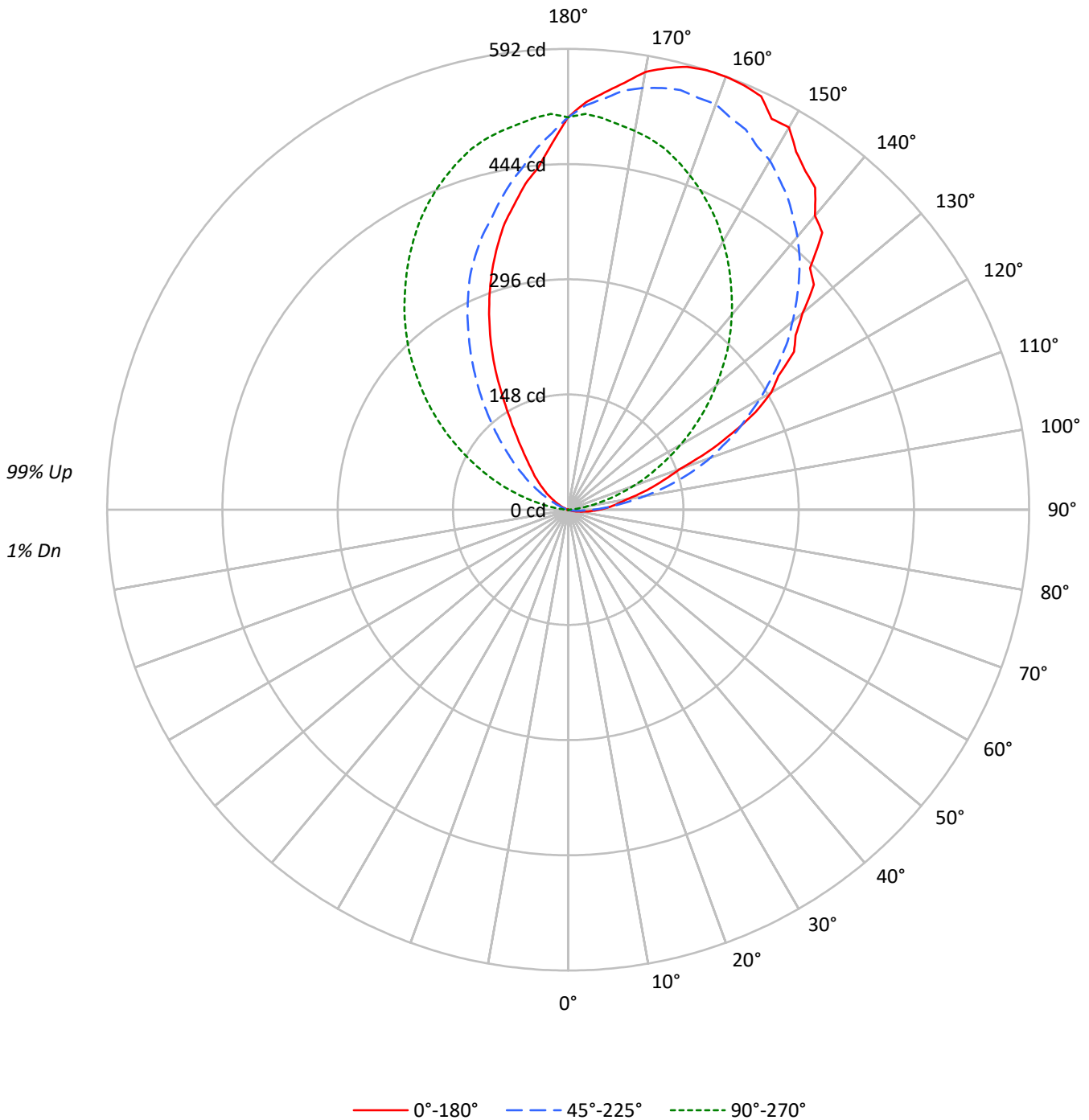
Input Watts (W): 17.4
Input Voltage (V): 120.01
Input Current (A_{in}): 0.14576
Voltage Rise (V): NR
Power Factor: 0.9962
Total Harmonic Distortion (THDi): 5.81%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	48	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	53	0
75°	340	69	0
80°	858	99	61
85°	2182	177	84



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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°	0.1	0.0
70°-80°	2.0	0.2
80°-90°	8.2	0.7
90°-100°	27.3	2.3
100°-110°	66.7	5.5
110°-120°	125.2	10.4
120°-130°	176.2	14.6
130°-140°	209.2	17.4
140°-150°	216.5	18.0
150°-160°	192.9	16.0
160°-170°	133.2	11.1
170°-180°	47.3	3.9
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	10.2	0.8
90°-120°	219.2	18.2
90°-150°	821.1	68.2
90°-180°	1195.0	99.2
0°-180°	1204.8	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°	7	0	1	1	0	8
85°	26	14	1	1	1	19
90°	40	32	1	0	0	22
95°	57	59	7	1	1	50
105°	112	147	54	1	0	119
115°	232	239	126	18	8	228
125°	354	331	207	59	28	311
135°	439	419	289	121	60	346
145°	531	491	363	207	115	333
155°	586	539	430	304	234	268
165°	589	558	480	385	351	166
175°	538	530	505	466	441	52
180°	504	504	504	504	504	



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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°	5	5	5	4	3	2	1	0	0	0	0
75°	7	7	7	6	6	6	5	5	4	1	0
77.5°	10	10	9	9	8	8	8	7	6	5	4
80°	14	14	14	13	12	11	11	10	8	7	6
82.5°	19	19	19	18	17	16	16	14	12	10	9
85°	26	25	25	24	23	22	22	20	18	16	14
87.5°	32	32	32	31	30	29	29	27	26	24	22
90°	40	40	40	39	38	37	38	36	35	33	32
92.5°	49	49	48	48	47	46	47	46	46	46	45
95°	57	58	57	57	57	56	58	58	60	60	59
97.5°	66	66	66	67	69	69	71	73	75	76	77
100°	76	77	78	81	84	84	86	89	91	94	99
102.5°	93	93	95	98	100	101	104	106	111	119	123
105°	112	113	114	116	118	119	122	128	138	146	147
107.5°	131	131	133	135	139	142	148	160	169	172	171
110°	152	152	156	163	174	179	185	193	197	198	194



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	194	194	200	206	211	215	220	221	223	219	215
115°	232	231	236	243	246	245	246	248	244	242	239
117.5°	271	270	269	269	273	276	274	271	269	266	260
120°	301	300	303	302	295	296	300	295	292	286	284
122.5°	320	319	321	326	326	321	317	321	314	313	307
125°	354	352	348	341	343	347	347	338	343	334	331
127.5°	368	369	374	376	367	363	364	371	360	361	355
130°	393	391	387	388	397	399	394	387	393	383	376
132.5°	428	425	428	422	412	413	416	422	412	408	398
135°	439	438	439	446	453	451	445	441	441	427	419
137.5°	483	483	479	471	467	469	472	467	457	452	440
140°	493	492	495	501	499	494	487	484	479	467	458
142.5°	521	520	514	507	505	509	511	503	492	485	474
145°	531	531	534	536	529	523	518	515	511	498	491
147.5°	545	545	540	537	539	543	543	530	521	515	504
150°	567	564	564	561	552	547	544	543	536	524	518
152.5°	566	566	564	565	565	565	561	550	545	537	526
155°	586	585	581	575	570	567	567	564	554	544	539
157.5°	590	587	587	587	583	579	574	566	561	554	545
160°	592	591	587	584	583	581	580	572	564	559	554
162.5°	592	592	589	586	582	578	576	573	569	563	555
165°	589	588	587	585	582	581	578	573	566	562	558
167.5°	581	581	578	576	573	573	572	569	564	560	555
170°	571	571	569	568	564	563	561	558	556	553	550
172.5°	553	554	553	552	552	552	551	550	548	546	543
175°	538	539	537	538	536	536	534	533	532	531	530
177.5°	524	525	525	523	522	522	522	521	521	520	520
180°	504	504	504	504	504	504	504	504	504	504	504



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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	1	0	1	1	1	1	1	1	1
72.5°	0	0	1	1	1	1	1	1	1	1	1
75°	0	0	1	1	1	1	1	1	1	1	1
77.5°	1	0	0	1	1	1	1	1	1	1	1
80°	5	3	1	0	1	1	1	1	1	1	1
82.5°	7	5	4	2	1	1	1	1	1	1	1
85°	12	9	7	5	4	3	1	1	1	1	1
87.5°	19	16	13	10	8	6	3	1	1	1	1
90°	30	27	23	17	15	12	7	4	2	1	1
92.5°	43	40	35	28	25	21	14	10	5	2	1
95°	59	55	50	41	38	32	24	19	12	7	4
97.5°	76	74	67	57	52	46	37	30	22	15	9
100°	99	94	85	73	69	61	52	45	35	26	17
102.5°	120	114	104	91	87	80	70	61	50	39	27
105°	143	135	124	111	107	100	89	80	68	54	40
107.5°	165	157	145	133	128	121	110	100	86	71	55
110°	186	178	167	155	150	142	132	120	105	89	71



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	208	200	189	176	172	164	153	141	125	108	89
115°	232	223	212	199	194	186	175	162	145	126	108
117.5°	254	246	234	221	216	208	197	182	165	146	128
120°	278	269	256	243	238	230	218	203	185	166	148
122.5°	301	291	278	266	260	252	239	224	206	187	169
125°	324	312	300	287	281	274	259	244	226	207	191
127.5°	345	333	320	307	301	294	279	264	247	228	211
130°	366	355	342	327	322	314	299	284	268	248	232
132.5°	385	373	361	347	341	333	319	303	288	268	253
135°	408	394	380	367	360	353	338	323	307	289	273
137.5°	425	414	399	384	378	371	357	343	326	308	292
140°	446	431	417	402	397	389	375	361	346	327	311
142.5°	462	449	435	421	414	407	393	380	364	345	329
145°	478	465	453	440	434	427	412	398	381	363	347
147.5°	494	481	470	455	450	444	430	415	399	381	364
150°	505	496	484	473	467	461	448	433	416	398	380
152.5°	518	508	498	486	482	476	464	450	433	415	398
155°	528	519	510	500	496	489	478	466	448	430	413
157.5°	538	529	519	510	506	501	491	478	463	444	426
160°	545	536	529	520	516	510	503	490	475	457	441
162.5°	550	543	535	526	523	520	512	499	486	469	454
165°	552	545	539	532	529	525	516	507	495	480	465
167.5°	550	546	540	535	532	528	521	512	502	488	476
170°	548	545	540	536	533	531	524	516	505	494	483
172.5°	540	537	535	532	531	529	526	520	513	499	491
175°	530	530	529	529	528	528	527	525	516	505	498
177.5°	520	519	518	519	519	522	521	520	516	509	504
180°	504	504	504	504	504	504	504	504	504	504	504



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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°	1	1	1	1	1	1	1	1	1	0	0
72.5°	1	1	1	1	1	1	1	0	1	1	0
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	0	1	1	1
82.5°	1	1	1	1	1	1	1	0	1	0	0
85°	1	1	1	1	1	1	1	1	1	1	1
87.5°	1	1	1	1	0	0	0	0	0	1	0
90°	1	1	1	0	0	0	0	0	0	0	0
92.5°	1	1	1	1	1	0	0	1	1	1	1
95°	2	1	1	1	1	1	1	0	1	1	1
97.5°	5	3	1	1	1	1	0	0	1	1	1
100°	10	6	4	3	2	1	1	0	1	1	1
102.5°	19	12	8	6	5	3	1	0	0	0	0
105°	29	21	15	12	10	7	5	3	1	0	0
107.5°	42	33	24	21	18	12	8	6	5	4	1
110°	57	47	36	32	28	20	14	10	8	7	6



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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	74	63	51	46	41	30	21	15	12	10	9
115°	93	80	68	61	55	42	31	23	18	15	12
117.5°	113	99	86	78	71	57	43	33	26	21	18
120°	133	119	104	96	88	72	56	44	35	29	25
122.5°	154	139	124	115	106	88	71	57	46	38	32
125°	174	159	144	135	125	106	88	72	59	48	41
127.5°	194	180	163	155	144	124	105	86	72	59	51
130°	215	200	183	174	164	143	123	103	87	73	61
132.5°	236	220	202	194	185	162	142	121	103	88	74
135°	255	239	222	214	205	182	161	140	121	104	89
137.5°	274	258	241	233	224	202	182	160	140	122	105
140°	293	277	260	252	242	223	203	181	161	143	124
142.5°	311	295	278	271	262	243	224	203	184	166	146
145°	329	313	296	290	281	265	245	225	207	190	172
147.5°	346	330	315	308	301	285	268	249	231	216	199
150°	363	347	333	326	319	304	290	272	255	241	226
152.5°	381	365	351	344	337	324	311	296	280	267	252
155°	397	381	367	361	354	343	331	318	304	292	279
157.5°	412	396	383	379	372	359	351	337	328	317	306
160°	426	412	399	395	389	376	367	357	348	340	332
162.5°	440	427	415	410	406	396	385	376	368	361	354
165°	453	440	429	424	420	412	404	394	385	382	376
167.5°	464	453	444	440	435	428	420	414	406	399	395
170°	473	464	458	454	450	443	437	432	426	421	417
172.5°	482	475	470	468	465	461	454	449	444	439	436
175°	492	485	482	480	479	476	473	469	466	462	459
177.5°	498	494	492	492	492	491	488	486	484	483	482
180°	504	504	504	504	504	504	504	504	504	504	504



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CATALOG NUMBER: FMB-N-2-LD4-1UP/STD-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	1	0	0	1	0	0	0
75°	1	1	0	0	0	0	1	0
77.5°	1	1	0	1	1	0	1	1
80°	1	1	1	0	1	0	0	1
82.5°	0	1	0	0	0	0	0	0
85°	1	1	1	1	1	0	0	1
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°	1	1	1	1	1	1	0	1
97.5°	0	0	1	0	1	0	0	0
100°	0	1	1	1	0	1	0	0
102.5°	0	0	0	0	0	0	0	0
105°	1	1	1	1	0	0	1	0
107.5°	0	1	0	0	0	0	0	0
110°	5	4	2	1	0	0	0	0



TEST NUMBER: P27158

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	8	7	7	6	6	6	5	5
115°	11	10	10	9	9	8	8	8
117.5°	16	14	13	13	12	12	11	11
120°	22	20	19	18	17	16	15	16
122.5°	29	26	25	24	22	22	21	21
125°	37	34	32	31	29	28	27	28
127.5°	46	42	40	38	36	36	35	35
130°	56	51	49	47	45	43	42	42
132.5°	66	61	58	56	53	52	51	51
135°	78	71	68	66	63	61	60	60
137.5°	93	85	80	77	73	71	69	69
140°	111	101	96	91	85	83	80	81
142.5°	131	120	114	109	103	99	96	96
145°	157	143	136	130	124	118	115	115
147.5°	185	171	163	157	148	143	138	139
150°	213	200	193	188	180	173	168	168
152.5°	241	229	223	217	209	204	199	202
155°	269	258	252	247	241	234	234	234
157.5°	297	287	281	276	271	266	263	265
160°	324	316	310	305	300	296	293	295
162.5°	348	342	337	334	329	325	324	324
165°	371	364	360	358	353	351	350	351
167.5°	392	387	384	381	378	376	375	377
170°	414	409	404	402	399	397	397	398
172.5°	434	431	428	426	424	421	421	422
175°	457	452	448	448	444	441	440	441
177.5°	481	478	475	473	473	470	470	471
180°	504	504	504	504	504	504	504	504

(END OF REPORT)