

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: P27182

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

Test Date: 12/08/15

Test Information

Test Method: LM-79-08
Report Number: P27182
Test Lab: INNOVATION CENTER-P2
Test Date: 12/08/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMB-N-2-LD4-2UP/HI-40-UNV-80/86
Description: FAILSAFE LED 2FT 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: 2546.8 lumens
Efficiency: N/A
Efficacy: 56.8 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

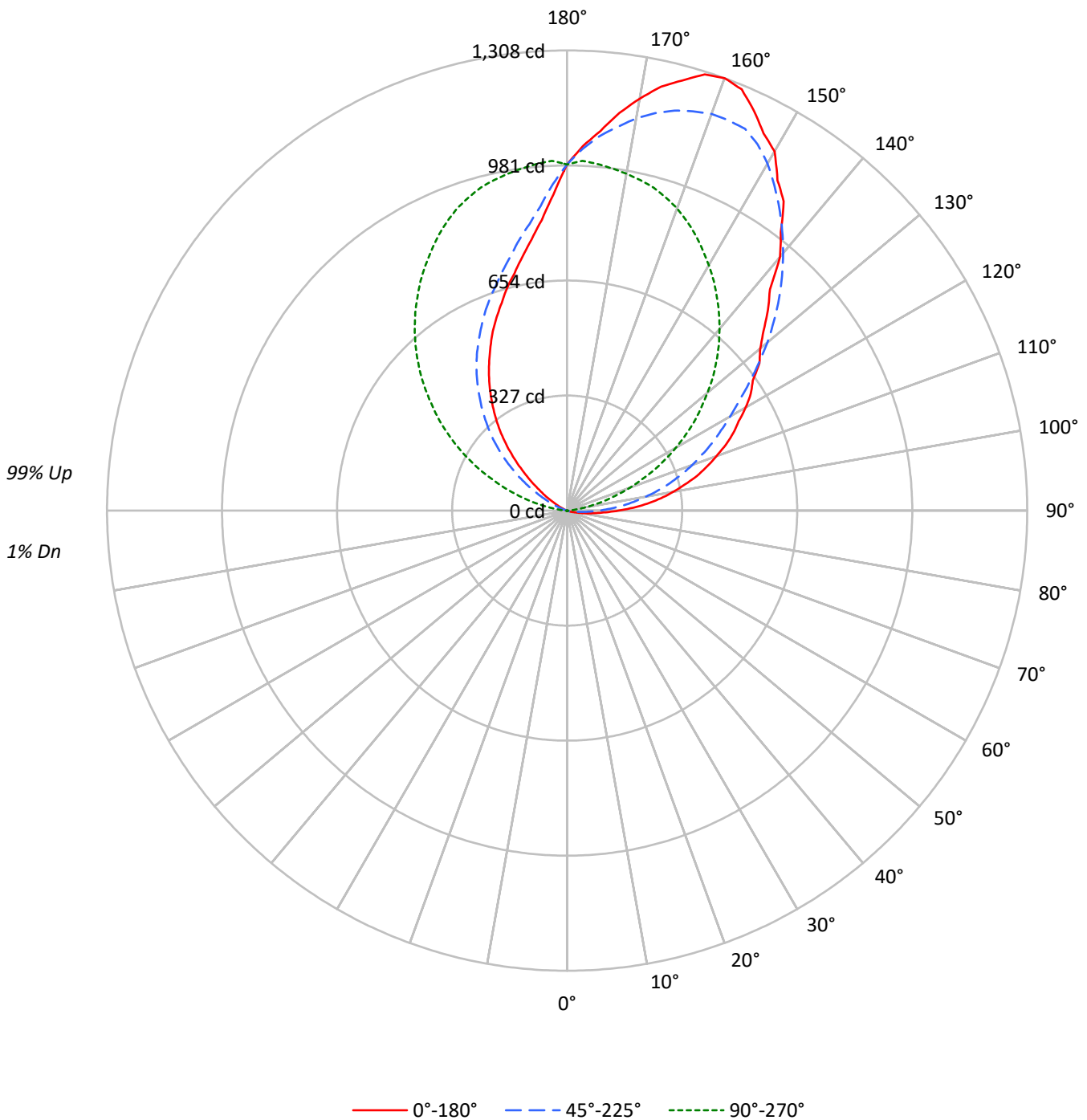
Input Watts (W): 44.8
Input Voltage (V): 120.03
Input Current (A_{in}): 0.37491
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.09%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P27182

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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	96	96	96	96	82	82	82	82	56	56	56	33	33	33	11	11	11	1
1	86	82	79	75	74	71	68	65	48	47	45	28	27	26	9	9	9	0
2	79	72	66	61	67	61	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	7	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	5	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	7	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°	44	116	44
75°	850	75	53
80°	2684	107	67
85°	7628	190	92



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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°	4.4	0.2
80°-90°	24.9	1.0
90°-100°	79.7	3.1
100°-110°	161.8	6.4
110°-120°	259.4	10.2
120°-130°	358.4	14.1
130°-140°	436.1	17.1
140°-150°	459.7	18.1
150°-160°	402.3	15.8
160°-170°	267.4	10.5
170°-180°	92.5	3.6
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	29.5	1.2
90°-120°	500.9	19.7
90°-150°	1755.1	68.9
90°-180°	2517.0	98.8
0°-180°	2546.8	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°	16	1	1	1	1	19
85°	83	42	1	1	1	59
90°	146	92	1	1	1	81
95°	229	155	14	1	1	203
105°	382	303	114	2	1	402
115°	521	455	272	51	15	515
125°	644	631	441	166	82	583
135°	807	852	600	307	218	626
145°	1073	1051	742	445	371	664
155°	1255	1197	864	577	515	577
165°	1266	1177	950	706	657	360
175°	1083	1069	989	869	829	107
180°	984	984	984	984	984	



TEST NUMBER: P27182

CATALOG NUMBER: FMB-N-2-LD4-2UP/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°	1	1	1	1	1	1	1	1	1	1	1
72.5°	11	11	10	9	7	5	3	1	1	1	1
75°	16	16	15	14	13	13	12	11	8	3	1
77.5°	25	25	24	22	21	20	18	15	13	11	9
80°	40	40	39	36	34	32	31	26	22	17	14
82.5°	59	60	59	55	52	51	48	43	37	31	24
85°	83	84	83	79	77	74	71	66	59	50	42
87.5°	110	111	111	108	106	103	101	94	86	75	64
90°	146	144	145	142	141	137	135	126	116	103	92
92.5°	188	185	186	182	179	174	172	161	150	135	122
95°	229	226	227	221	217	212	209	197	185	169	155
97.5°	269	265	265	260	255	250	246	234	221	205	191
100°	306	303	301	298	293	287	284	272	258	242	227
102.5°	343	341	339	336	331	325	322	309	295	279	265
105°	382	380	375	373	366	362	357	345	332	317	303
107.5°	417	416	412	410	403	397	393	381	369	354	340
110°	451	451	447	445	437	432	427	416	404	391	378



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	488	486	481	477	470	465	461	449	439	426	415
115°	521	522	516	511	503	497	494	485	474	463	455
117.5°	550	551	545	543	536	530	525	519	510	500	493
120°	586	583	576	572	568	565	562	553	546	538	535
122.5°	619	619	613	608	599	596	593	590	584	582	579
125°	644	644	639	643	637	633	630	627	626	624	631
127.5°	689	686	680	673	669	671	671	671	671	674	685
130°	716	717	716	720	715	713	713	720	723	736	743
132.5°	757	758	753	756	760	765	766	770	789	795	797
135°	807	806	811	813	810	812	821	844	849	854	852
137.5°	853	852	852	864	883	895	897	899	912	908	904
140°	941	940	948	954	953	952	954	966	960	960	955
142.5°	998	997	998	1005	1018	1020	1021	1011	1019	1008	1004
145°	1073	1074	1072	1070	1062	1064	1065	1071	1061	1060	1051
147.5°	1113	1109	1114	1123	1126	1128	1122	1111	1114	1104	1096
150°	1179	1175	1173	1166	1162	1166	1165	1165	1156	1151	1139
152.5°	1209	1214	1216	1219	1217	1213	1205	1199	1198	1186	1173
155°	1255	1255	1251	1248	1247	1249	1246	1242	1230	1221	1197
157.5°	1296	1297	1294	1291	1282	1279	1274	1268	1254	1228	1200
160°	1308	1310	1309	1304	1301	1297	1290	1270	1248	1226	1200
162.5°	1300	1305	1299	1288	1278	1270	1264	1247	1231	1209	1190
165°	1266	1268	1263	1256	1247	1241	1237	1224	1211	1195	1177
167.5°	1234	1232	1228	1223	1217	1213	1210	1200	1188	1173	1157
170°	1189	1189	1187	1182	1177	1173	1171	1163	1155	1145	1132
172.5°	1140	1139	1137	1135	1132	1129	1129	1123	1118	1110	1100
175°	1083	1083	1081	1082	1081	1080	1081	1081	1078	1074	1069
177.5°	1037	1037	1037	1036	1037	1038	1038	1038	1036	1034	1030
180°	984	984	984	984	984	984	984	984	984	984	984



TEST NUMBER: P27182

CATALOG NUMBER: FMB-N-2-LD4-2UP/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	2	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°	4	1	1	1	1	1	1	1	1	1	1
80°	10	7	2	1	1	1	1	1	1	1	1
82.5°	18	13	9	5	2	1	1	1	1	1	1
85°	32	24	17	11	8	6	3	1	1	1	1
87.5°	52	41	30	21	17	13	7	3	1	1	1
90°	76	62	49	36	31	25	17	9	4	1	1
92.5°	105	90	74	57	50	44	31	20	11	5	2
95°	137	120	102	83	75	68	52	38	25	14	7
97.5°	172	154	134	114	106	97	79	63	46	31	18
100°	209	189	169	149	139	131	112	94	73	53	35
102.5°	246	227	207	186	177	168	148	129	106	81	58
105°	285	266	247	228	217	207	189	168	143	114	86
107.5°	323	306	288	269	260	250	233	211	182	150	118
110°	363	346	331	316	304	296	278	255	224	190	153



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	403	388	376	361	351	342	325	300	267	228	191
115°	443	434	423	408	398	390	371	345	310	272	230
117.5°	485	480	471	457	446	437	418	390	352	314	272
120°	532	530	520	506	495	488	465	435	398	356	312
122.5°	581	580	570	555	545	536	512	480	440	399	356
125°	636	630	620	603	593	582	557	524	482	441	395
127.5°	688	681	669	651	640	628	602	566	525	480	436
130°	738	732	720	699	687	674	646	610	566	521	476
132.5°	790	782	768	745	731	719	688	651	606	562	515
135°	844	833	816	791	776	763	729	689	643	600	552
137.5°	891	881	861	832	819	804	771	729	681	638	589
140°	941	929	905	876	861	843	808	765	716	674	623
142.5°	989	972	947	917	898	879	841	799	752	709	657
145°	1037	1019	992	955	937	918	877	831	785	742	689
147.5°	1079	1058	1027	990	970	948	907	863	819	775	722
150°	1121	1094	1059	1020	999	978	938	892	850	805	752
152.5°	1146	1112	1077	1040	1019	1000	962	920	880	835	783
155°	1164	1129	1094	1059	1041	1023	985	947	908	864	812
157.5°	1171	1138	1106	1072	1055	1037	1004	969	932	890	840
160°	1172	1143	1113	1081	1066	1050	1020	987	953	914	868
162.5°	1168	1143	1116	1087	1073	1059	1033	1003	971	933	892
165°	1157	1135	1112	1088	1075	1064	1040	1014	984	950	913
167.5°	1143	1124	1105	1084	1073	1062	1041	1018	991	962	931
170°	1123	1108	1093	1076	1068	1060	1042	1021	998	972	947
172.5°	1095	1088	1078	1069	1064	1057	1042	1025	1004	981	960
175°	1067	1059	1054	1048	1045	1042	1033	1021	1009	989	972
177.5°	1031	1025	1021	1016	1014	1014	1010	1010	1005	995	984
180°	984	984	984	984	984	984	984	984	984	984	984



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CATALOG NUMBER: FMB-N-2-LD4-2UP/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	2	2	1	1	1	1	1	1	1
72.5°	2	2	2	1	2	1	1	1	1	1	1
75°	1	2	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	1	1	1
87.5°	1	1	1	1	1	1	1	1	1	1	1
90°	1	1	1	1	1	1	1	1	1	1	1
92.5°	1	1	1	1	1	1	1	1	1	1	1
95°	4	1	1	1	1	1	1	1	1	1	1
97.5°	10	6	3	1	1	1	1	1	1	1	1
100°	21	13	8	6	5	1	1	1	1	1	1
102.5°	39	26	17	13	11	7	4	1	1	1	1
105°	62	44	31	25	21	14	10	7	2	1	1
107.5°	89	68	51	43	36	26	19	13	10	8	4
110°	121	96	75	65	57	44	33	24	18	14	11



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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	155	127	104	93	83	67	53	40	32	24	19
115°	192	161	135	123	112	93	78	62	51	40	33
117.5°	231	198	172	156	144	124	106	87	74	62	52
120°	269	235	207	192	180	156	137	117	102	88	76
122.5°	310	273	244	228	216	191	171	148	133	117	104
125°	349	309	279	265	252	226	205	181	166	150	135
127.5°	387	347	316	302	289	263	241	216	199	182	168
130°	426	385	354	340	326	300	277	252	236	218	203
132.5°	464	422	390	377	363	336	314	288	271	255	239
135°	501	456	425	411	397	372	349	324	307	291	276
137.5°	535	492	459	446	431	406	384	360	340	325	311
140°	569	525	493	478	464	440	418	394	376	362	347
142.5°	602	558	524	510	497	472	451	430	410	397	383
145°	633	589	556	543	530	506	485	463	445	432	418
147.5°	666	623	589	576	562	538	519	498	480	467	453
150°	699	653	620	606	593	569	551	530	513	501	486
152.5°	730	684	652	636	624	600	582	561	544	531	518
155°	760	716	684	670	655	631	613	594	577	565	552
157.5°	789	746	715	701	686	662	644	625	610	598	585
160°	820	777	746	732	718	693	675	656	642	631	618
162.5°	849	808	778	763	750	725	707	688	672	660	649
165°	875	838	808	795	783	759	741	721	706	694	683
167.5°	899	866	838	824	814	793	775	756	741	730	720
170°	921	894	870	857	847	826	812	796	782	772	759
172.5°	941	921	902	891	883	863	849	833	821	812	803
175°	958	947	935	927	921	906	895	880	869	861	851
177.5°	976	971	966	961	959	950	946	936	929	925	918
180°	984	984	984	984	984	984	984	984	984	984	984



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CATALOG NUMBER: FMB-N-2-LD4-2UP/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	1	1	1	1	1	1	1
85°	1	1	1	1	1	1	1	1
87.5°	1	1	1	1	1	1	1	1
90°	1	1	1	1	1	1	1	1
92.5°	1	1	1	1	1	1	1	1
95°	1	1	1	1	1	1	1	1
97.5°	1	1	1	1	1	1	1	1
100°	1	1	1	1	1	1	1	1
102.5°	1	1	1	1	1	1	1	1
105°	1	1	1	1	1	1	1	1
107.5°	1	1	1	1	1	1	1	1
110°	10	8	8	6	2	1	1	1



TEST NUMBER: P27182

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	16	13	12	12	11	10	10	10
115°	27	22	21	19	17	16	15	15
117.5°	44	37	34	32	29	26	25	24
120°	66	57	52	50	46	42	40	39
122.5°	93	80	77	72	66	61	60	58
125°	123	109	103	99	92	86	83	82
127.5°	156	140	134	130	122	115	112	110
130°	191	174	170	162	156	148	145	143
132.5°	227	211	204	200	192	185	181	179
135°	264	248	242	238	231	223	219	218
137.5°	300	285	280	274	267	260	259	258
140°	336	323	316	313	307	300	298	297
142.5°	371	357	352	347	342	335	335	334
145°	407	393	388	384	378	374	372	371
147.5°	444	432	425	421	414	411	408	408
150°	477	467	461	456	450	448	444	444
152.5°	510	498	494	490	485	482	481	480
155°	544	532	529	525	520	518	516	515
157.5°	576	567	563	559	554	554	551	552
160°	611	600	597	594	589	589	587	585
162.5°	644	634	630	626	622	621	618	619
165°	677	667	664	661	659	657	657	657
167.5°	715	704	701	698	695	693	691	691
170°	755	743	740	736	734	733	733	732
172.5°	797	788	785	782	780	776	775	777
175°	847	838	835	832	832	828	827	829
177.5°	917	909	908	905	907	902	904	899
180°	984	984	984	984	984	984	984	984

(END OF REPORT)