

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: P27010

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

Test Date: 11/05/15

**Test Information**

Test Method: LM-79-08  
Report Number: P27010  
Test Lab: INNOVATION CENTER-P2  
Test Date: 11/05/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FCC-N-2-LD4-1LO-40-UNV-80/86  
Description: FAILSAFE LED 2' FCC CORNER MOUNT CORRECTIONAL FIXTURE  
Light Source: (42) NICHIA 4000K LEDS  
2UT217042A8404A  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER  
OSRAM OT25W

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1065.3 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.26 / 1.45  
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.38' x H: 0.52')  
CIE Type: Semi-Direct

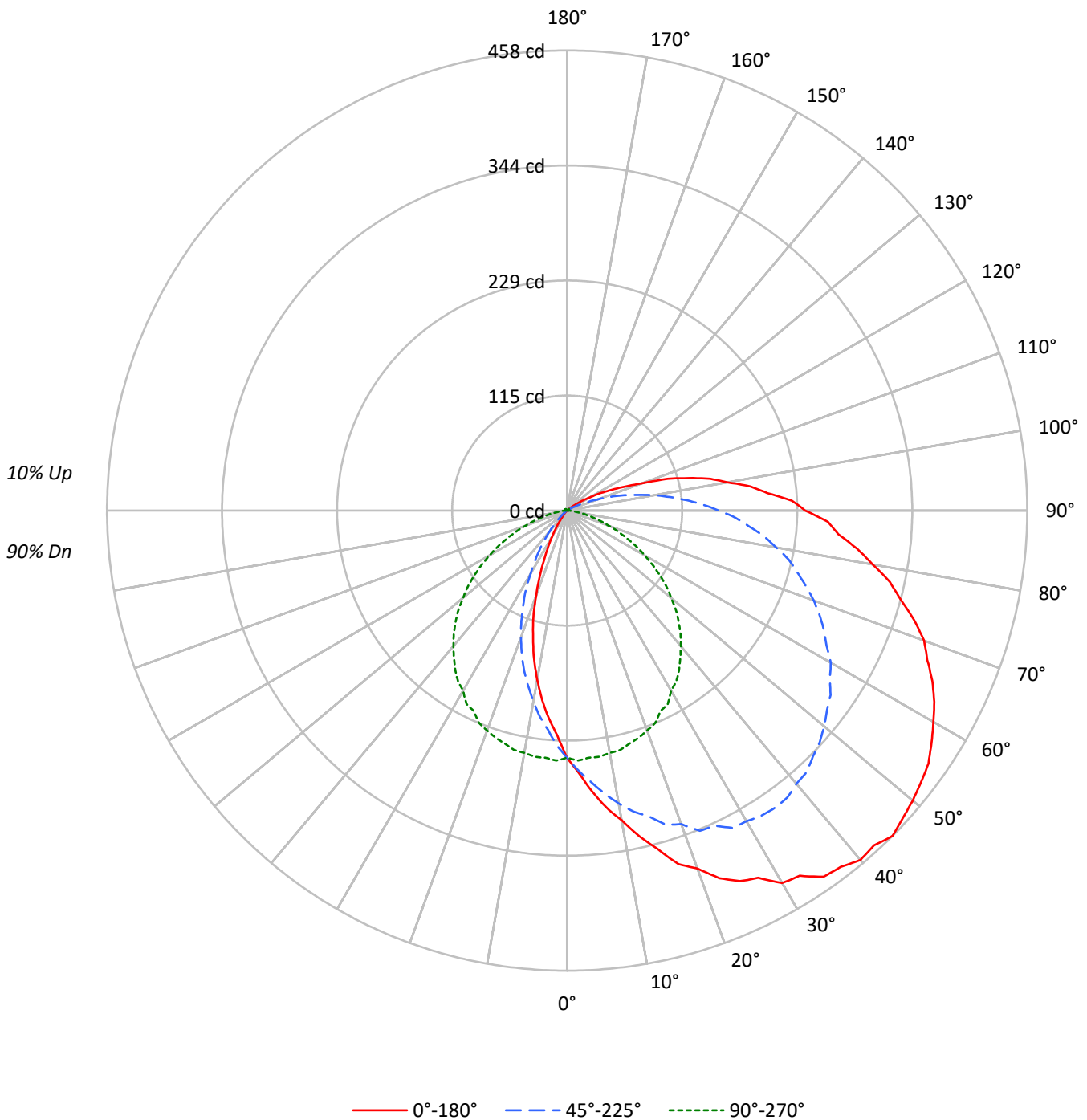
Input Watts (W): 12.7  
Input Voltage (V): 120.03  
Input Current (Ain): 0.10698  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 7.44%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 24 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	103	97	91	86	99	93	88	83	87	83	79	81	78	75	76	73	71	68
2	92	82	74	67	88	79	72	66	74	68	62	69	64	59	65	60	57	54
3	83	71	62	54	80	69	60	53	64	57	51	60	54	49	56	51	47	44
4	76	62	53	45	72	60	51	44	56	49	42	53	46	41	49	44	39	36
5	69	55	45	38	66	54	44	38	50	42	36	47	40	35	44	38	34	31
6	64	49	40	33	61	48	39	32	45	37	31	42	35	30	40	34	29	27
7	59	45	35	29	57	43	35	28	41	33	27	38	32	27	36	30	26	23
8	55	41	32	25	53	39	31	25	37	30	24	35	28	24	33	27	23	21
9	51	37	29	23	49	36	28	22	34	27	22	32	26	21	31	25	20	18
10	48	34	26	20	46	33	25	20	32	25	20	30	24	19	28	23	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	3684	3684	3684
5°	3753	3627	2788
10°	3823	3555	2089
15°	3943	3468	1480
20°	4012	3379	953
25°	4082	3226	552
30°	4108	3094	288
35°	4124	2980	120
40°	4099	2802	36
45°	4060	2615	0
50°	3940	2376	0
55°	3842	2126	0
60°	3703	1813	0
65°	3572	1478	0
70°	3437	1103	9
75°	3219	747	9
80°	3002	441	10
85°	2759	209	10



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.4	2.2
10°-20°	67.9	6.4
20°-30°	104.3	9.8
30°-40°	129.8	12.2
40°-50°	143.7	13.5
50°-60°	145.7	13.7
60°-70°	136.3	12.8
70°-80°	116.6	10.9
80°-90°	89.6	8.4
90°-100°	60.4	5.7
100°-110°	32.5	3.0
110°-120°	11.4	1.1
120°-130°	2.9	0.3
130°-140°	0.9	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	195.5	18.4
0°-40°	325.3	30.5
0°-60°	614.7	57.7
0°-90°	957.2	89.8
90°-120°	104.3	9.8
90°-150°	108.1	10.2
90°-180°	108.0	10.1
0°-180°	1065.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	246	246	246	246	246	
5°	280	271	247	219	208	28
15°	349	315	240	165	131	100
25°	407	346	220	103	55	188
35°	445	361	194	48	13	277
45°	458	346	157	12	0	351
55°	439	320	113	1	0	392
65°	401	282	66	1	0	397
75°	344	237	26	1	1	364
85°	271	182	5	1	1	230
90°	237	151	2	1	1	131
95°	200	119	2	1	1	157
105°	125	59	1	1	0	132
115°	49	15	2	1	0	50
125°	12	1	1	1	1	12
135°	0	1	2	1	1	1
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°	246	246	246	246	246	246	246	246	246	246	246
2.5°	261	260	259	261	260	260	261	261	260	259	259
5°	280	279	280	277	276	277	276	277	275	273	271
7.5°	298	298	297	298	295	295	296	291	291	287	284
10°	313	312	314	313	313	310	308	307	303	298	296
12.5°	332	333	330	328	324	325	322	322	319	314	307
15°	349	346	347	346	342	341	339	334	327	322	315
17.5°	369	370	368	364	360	356	356	348	344	333	328
20°	379	379	379	378	372	372	365	359	353	346	332
22.5°	396	395	392	389	386	383	380	373	365	353	345
25°	407	403	403	399	395	389	387	381	373	362	346
27.5°	412	417	412	408	402	401	394	389	377	368	356
30°	428	422	421	415	412	410	407	397	385	374	357
32.5°	431	435	430	422	417	412	408	399	387	373	360
35°	445	441	436	429	422	416	411	404	390	379	361
37.5°	447	447	444	436	427	422	418	404	392	376	360
40°	454	452	445	439	428	426	417	411	393	373	355
42.5°	452	451	450	441	429	422	419	404	389	373	353
45°	458	456	448	439	430	423	417	404	386	365	346
47.5°	453	452	448	441	426	422	412	396	381	363	341
50°	449	449	444	431	424	415	410	395	376	354	334
52.5°	444	443	438	434	419	412	408	389	371	349	326
55°	439	437	435	422	414	408	399	383	360	341	320
57.5°	430	429	424	420	407	401	393	376	357	333	310
60°	421	418	419	411	399	394	386	368	345	326	303
62.5°	412	412	407	400	388	385	376	357	339	313	291
65°	401	399	396	391	381	376	369	349	328	307	282
67.5°	388	386	384	378	369	361	355	338	317	295	272
70°	378	378	374	365	355	349	341	324	304	283	261
72.5°	362	361	356	349	341	337	329	311	294	273	249
75°	344	344	339	335	326	317	312	295	278	261	237
77.5°	329	328	324	317	307	302	298	279	264	244	226
80°	309	309	303	297	289	284	280	267	250	232	211
82.5°	291	289	287	281	276	270	262	248	234	217	198
85°	271	272	269	264	256	253	246	233	219	201	182
87.5°	260	257	255	250	240	235	228	218	202	185	168
90°	237	239	234	229	225	219	212	201	184	170	151
92.5°	224	221	217	212	205	202	196	183	170	154	135
95°	200	203	199	195	188	183	178	165	152	138	119
97.5°	184	183	179	175	170	166	160	149	135	121	103
100°	162	164	161	156	149	147	142	131	118	104	88
102.5°	146	145	143	139	133	128	125	114	102	88	72
105°	125	126	122	119	114	111	106	96	85	73	59
107.5°	105	104	102	99	94	91	86	79	70	59	46
110°	79	80	78	75	73	70	67	61	53	44	33



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	62	63	61	58	55	53	51	46	39	31	23
115°	49	49	47	45	42	40	38	34	28	22	15
117.5°	38	38	36	34	31	30	28	24	19	14	9
120°	27	27	26	24	22	21	19	16	12	8	5
122.5°	19	19	18	16	14	14	12	10	7	5	3
125°	12	12	11	10	9	8	7	5	4	3	1
127.5°	7	7	7	6	5	5	4	3	2	1	1
130°	4	4	4	4	3	3	3	2	0	1	1
132.5°	2	2	2	2	1	0	0	0	0	1	1
135°	0	0	0	0	0	0	0	0	1	1	1
137.5°	0	0	0	0	0	0	0	0	1	1	1
140°	0	0	0	0	0	0	0	0	0	0	1
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°	246	246	246	246	246	246	246	246	246	246	246
2.5°	258	256	256	255	255	252	252	251	250	249	246
5°	270	268	267	263	260	261	255	252	251	247	245
7.5°	279	276	271	266	266	263	261	256	250	247	242
10°	293	286	281	274	271	270	262	255	253	245	240
12.5°	298	294	287	280	276	271	266	259	249	244	236
15°	311	302	293	285	281	277	266	257	251	240	231
17.5°	315	308	298	290	284	279	268	257	245	237	227
20°	326	315	303	292	287	280	269	256	245	233	220
22.5°	328	318	304	294	287	281	269	255	239	229	216
25°	336	323	310	294	287	281	266	250	238	220	207
27.5°	339	323	309	295	289	279	264	249	231	217	201
30°	343	327	310	293	284	276	259	243	226	207	191
32.5°	345	323	309	291	283	272	256	238	219	202	183
35°	340	326	305	288	279	270	250	232	214	194	174
37.5°	343	320	302	283	273	263	246	226	205	185	165
40°	334	317	297	277	269	258	237	219	198	176	155
42.5°	330	311	291	272	261	251	231	210	187	167	144
45°	328	306	286	267	255	244	222	202	180	157	134
47.5°	319	299	278	258	245	236	213	191	169	147	123
50°	314	289	269	248	238	226	204	182	159	135	112
52.5°	303	282	261	240	226	215	193	171	147	125	100
55°	299	272	250	228	217	206	184	159	136	113	90
57.5°	286	264	241	217	206	195	172	148	123	101	77
60°	279	254	231	208	195	184	160	136	113	89	67
62.5°	267	242	218	196	183	171	147	124	100	78	56
65°	260	234	210	184	172	160	136	112	88	66	45
67.5°	247	223	198	173	160	148	123	99	76	55	36
70°	238	211	186	160	148	135	111	86	65	44	27
72.5°	226	200	174	149	136	125	98	75	54	35	19
75°	213	189	163	137	123	111	87	63	43	26	13
77.5°	201	177	151	125	112	100	75	52	34	19	9
80°	189	164	138	113	99	87	64	42	25	13	5
82.5°	175	152	126	100	88	77	53	33	18	8	3
85°	161	137	112	88	76	65	43	25	12	5	2
87.5°	146	123	99	76	64	54	34	18	8	3	2
90°	131	109	86	64	53	43	26	12	5	2	2
92.5°	115	95	73	52	43	34	18	8	3	1	1
95°	100	81	61	42	33	25	13	5	2	2	2
97.5°	86	67	49	32	24	18	8	3	1	2	2
100°	71	54	38	23	17	12	5	2	2	2	2
102.5°	57	42	28	15	11	7	3	1	2	2	2
105°	45	31	19	10	6	4	1	1	1	1	2
107.5°	33	22	13	6	4	3	1	1	1	2	2
110°	23	14	7	3	2	1	1	1	2	2	2





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	15	9	4	2	1	1	1	1	2	2	2
115°	9	5	3	1	1	1	1	1	1	2	2
117.5°	5	3	1	1	1	1	1	1	2	2	2
120°	3	1	1	1	1	1	1	1	2	2	2
122.5°	1	1	1	1	1	1	1	1	1	2	2
125°	1	1	1	1	1	1	1	1	1	1	2
127.5°	1	1	1	1	1	1	1	1	1	2	2
130°	1	1	1	1	1	1	1	1	2	2	2
132.5°	1	1	1	1	1	1	1	1	2	2	2
135°	1	1	1	1	1	1	1	2	2	2	2
137.5°	1	1	1	1	1	1	1	1	2	2	2
140°	1	1	1	1	1	1	1	1	1	1	2
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°	246	246	246	246	246	246	246	246	246	246	246
2.5°	245	244	242	240	240	238	237	234	234	233	230
5°	242	236	235	233	232	227	226	224	219	217	214
7.5°	238	234	228	224	221	218	214	209	207	204	199
10°	233	226	220	218	214	209	204	199	193	188	185
12.5°	228	220	213	210	205	198	191	185	179	174	168
15°	221	214	202	199	195	186	179	172	165	158	151
17.5°	217	205	196	189	185	175	166	159	150	143	135
20°	209	199	184	179	173	163	153	143	134	125	117
22.5°	202	187	176	168	162	151	140	130	119	109	100
25°	193	180	163	159	152	138	126	114	103	93	84
27.5°	183	169	155	146	140	127	112	100	89	78	68
30°	175	159	141	136	128	113	99	86	73	63	54
32.5°	165	148	132	123	116	100	86	73	60	50	41
35°	155	137	119	113	104	88	73	60	48	39	31
37.5°	146	126	108	100	91	76	61	48	37	29	22
40°	135	115	97	88	80	64	49	37	27	20	15
42.5°	123	103	84	76	67	52	39	27	19	13	9
45°	113	91	74	65	55	41	29	19	12	8	5
47.5°	101	81	61	53	45	32	20	13	7	5	3
50°	90	69	51	43	35	23	14	8	4	3	2
52.5°	78	58	40	33	27	15	8	4	3	1	1
55°	67	48	31	25	19	10	5	3	1	1	1
57.5°	56	37	23	17	13	6	3	1	1	1	1
60°	46	29	16	11	8	4	2	1	1	1	1
62.5°	36	21	11	7	5	3	1	1	1	1	1
65°	28	14	7	4	3	1	1	1	1	1	1
67.5°	20	10	4	3	2	2	1	1	1	1	1
70°	14	6	3	2	2	2	1	1	1	1	1
72.5°	9	4	2	2	2	2	2	1	1	1	1
75°	6	2	2	2	2	2	1	1	1	1	1
77.5°	4	2	2	2	2	2	2	2	1	1	1
80°	2	2	2	2	2	2	2	2	2	1	1
82.5°	2	2	2	2	2	2	2	2	1	1	1
85°	2	2	2	2	2	2	1	1	1	1	1
87.5°	2	2	2	1	2	1	1	1	1	1	1
90°	2	2	2	2	1	1	1	1	1	1	1
92.5°	1	1	1	1	1	1	1	1	1	1	1
95°	2	2	2	2	2	2	2	1	1	1	1
97.5°	2	2	2	2	2	2	1	1	1	1	1
100°	2	2	2	2	2	2	1	1	1	1	1
102.5°	2	2	2	2	2	2	2	1	1	1	1
105°	1	2	2	2	2	1	1	1	1	1	1
107.5°	2	2	2	1	2	1	1	1	1	1	1
110°	2	2	2	2	2	2	1	1	1	1	1



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	2	2	2	2	2	2	1	1	1	1	1
115°	2	2	2	2	2	1	1	1	1	1	1
117.5°	2	2	2	2	2	2	1	1	1	1	1
120°	2	2	2	2	2	2	2	1	1	1	1
122.5°	2	2	2	2	2	2	1	1	1	1	1
125°	2	2	2	2	2	2	1	1	1	1	1
127.5°	2	2	2	2	2	2	1	1	1	1	1
130°	2	2	2	2	2	2	1	1	1	1	1
132.5°	2	2	2	2	2	2	1	1	1	1	1
135°	2	2	2	2	2	2	1	1	1	1	1
137.5°	2	2	2	2	2	2	2	1	1	1	1
140°	2	2	2	2	2	1	1	1	1	1	1
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: P27010

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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	246	246	246	246	246	246	246	246
2.5°	229	227	228	226	226	224	226	224
5°	213	212	211	209	209	209	207	208
7.5°	197	195	194	192	191	189	190	190
10°	180	178	176	174	174	172	171	171
12.5°	164	160	159	156	154	152	152	152
15°	146	143	140	138	135	133	131	131
17.5°	127	123	121	118	115	113	111	112
20°	110	105	102	98	96	93	90	90
22.5°	92	86	83	81	77	74	72	72
25°	75	69	66	64	59	57	54	55
27.5°	60	54	51	49	45	43	41	41
30°	46	41	38	37	34	31	30	30
32.5°	35	30	28	27	23	22	20	20
35°	25	21	19	18	15	14	13	13
37.5°	17	14	12	11	9	8	7	7
40°	11	8	7	6	5	5	4	4
42.5°	6	4	4	3	3	3	2	2
45°	4	3	2	2	2	1	0	0
47.5°	2	1	1	1	0	0	0	0
50°	1	1	1	1	0	0	0	0
52.5°	1	1	1	0	0	0	0	0
55°	1	1	1	1	0	0	0	0
57.5°	1	1	1	1	0	0	0	0
60°	1	1	1	1	1	0	0	0
62.5°	1	1	1	1	1	0	0	0
65°	1	1	1	1	1	1	0	0
67.5°	1	1	1	1	1	1	1	1
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	0	0	0
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	0
107.5°	1	1	1	1	1	1	1	0
110°	1	1	1	1	1	1	1	0



TEST NUMBER: P27010

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

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	1	1	1	1	1	1	1	1
115°	1	1	1	1	1	1	1	0
117.5°	1	1	1	1	1	1	1	1
120°	1	1	1	1	1	1	1	1
122.5°	1	1	1	1	1	1	1	1
125°	1	1	1	1	1	1	1	1
127.5°	1	1	1	1	1	1	1	1
130°	1	1	1	1	1	1	1	1
132.5°	1	1	1	1	1	1	1	1
135°	1	1	1	1	1	1	1	1
137.5°	1	1	1	1	1	1	1	1
140°	1	1	1	1	1	0	1	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)