

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: P27009

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

Test Date: 11/05/15

**Test Information**

Test Method: LM-79-08  
Report Number: P27009  
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-LD4-1STD-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: 1447.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.26 / 1.46  
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.38' x H: 0.52')  
CIE Type: Semi-Direct

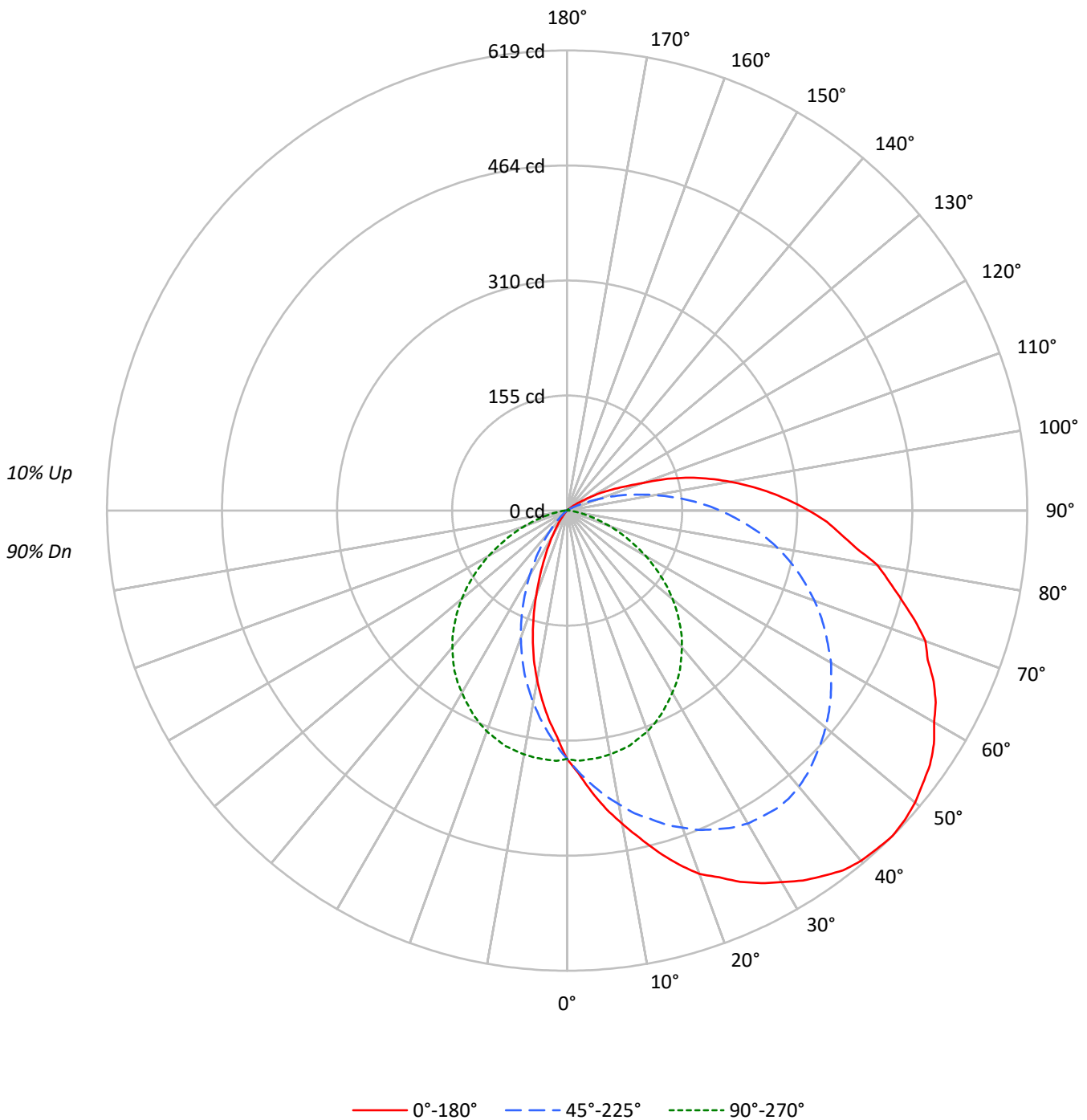
Input Watts (W): 17.3  
Input Voltage (V): 120.01  
Input Current (Ain): 0.14517  
Voltage Rise (V): NR  
Power Factor: 0.9955  
Total Harmonic Distortion (THDi): 6.23%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 24 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	43		53	46	41		49	44	39	36
5	69	55	46	38	66	54	44	38	50	42	36		47	40	35		44	38	34	31
6	64	50	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°	5002	5002	5002
5°	5094	4934	3780
10°	5228	4832	2834
15°	5378	4726	2011
20°	5505	4583	1291
25°	5526	4414	732
30°	5537	4230	384
35°	5561	4055	158
40°	5552	3821	45
45°	5488	3564	9
50°	5361	3256	0
55°	5216	2897	0
60°	5013	2485	0
65°	4845	2015	9
70°	4664	1504	9
75°	4361	1005	9
80°	4119	577	10
85°	3767	293	10



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.8	2.2
10°-20°	92.3	6.4
20°-30°	141.7	9.8
30°-40°	176.3	12.2
40°-50°	195.4	13.5
50°-60°	197.9	13.7
60°-70°	185.0	12.8
70°-80°	158.3	10.9
80°-90°	121.8	8.4
90°-100°	82.2	5.7
100°-110°	44.2	3.1
110°-120°	15.5	1.1
120°-130°	3.8	0.3
130°-140°	1.1	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°	265.8	18.4
0°-40°	442.1	30.5
0°-60°	835.3	57.7
0°-90°	1300.5	89.8
90°-120°	141.8	9.8
90°-150°	146.9	10.2
90°-180°	147.0	10.2
0°-180°	1447.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	334	334	334	334	334	
5°	380	369	336	299	282	38
15°	476	429	327	224	178	136
25°	551	473	301	140	73	255
35°	600	490	264	65	17	377
45°	619	471	214	17	1	477
55°	596	433	154	1	0	532
65°	544	383	90	2	1	538
75°	466	322	35	2	1	494
85°	370	247	7	2	1	313
90°	325	206	2	2	1	178
95°	275	163	2	2	1	214
105°	171	81	2	2	1	179
115°	67	20	2	2	1	69
125°	16	1	2	2	1	17
135°	0	1	2	2	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°	334	334	334	334	334	334	334	334	334	334	334
2.5°	354	352	353	354	354	354	355	354	354	353	352
5°	380	378	378	378	377	376	377	375	374	371	369
7.5°	405	404	403	403	401	399	399	397	394	390	386
10°	428	426	426	425	423	422	421	417	413	407	401
12.5°	451	449	448	447	443	441	440	435	430	423	417
15°	476	474	472	470	466	464	462	455	448	439	429
17.5°	499	499	497	493	488	486	483	474	465	454	443
20°	520	519	516	513	507	504	501	491	481	468	454
22.5°	534	533	532	529	523	519	516	506	494	480	465
25°	551	549	546	542	536	532	528	518	507	491	473
27.5°	565	564	560	555	548	543	538	528	515	500	481
30°	577	576	573	567	560	555	549	536	521	505	486
32.5°	590	588	585	576	567	562	556	543	526	508	488
35°	600	599	592	585	573	567	561	547	530	512	490
37.5°	610	606	601	592	581	573	566	548	530	510	489
40°	615	612	607	596	583	575	569	556	534	507	485
42.5°	617	615	609	598	584	577	570	552	529	505	479
45°	619	617	610	598	584	575	565	545	523	498	471
47.5°	616	616	607	596	580	571	561	541	518	492	463
50°	611	609	602	590	576	566	556	536	511	483	454
52.5°	603	601	596	586	571	559	550	528	502	473	444
55°	596	594	589	576	561	552	542	520	493	464	433
57.5°	585	582	576	567	554	544	534	511	482	453	421
60°	570	569	565	558	543	533	523	500	472	441	410
62.5°	559	559	555	543	528	521	511	488	458	427	396
65°	544	541	536	527	517	509	499	473	446	416	383
67.5°	525	525	522	514	501	491	481	460	429	402	369
70°	513	512	508	495	481	473	466	442	413	385	354
72.5°	490	489	482	474	465	457	447	422	399	370	338
75°	466	466	462	453	443	433	424	403	379	353	322
77.5°	444	447	440	432	418	411	402	383	360	334	305
80°	424	420	414	405	395	388	382	362	340	316	287
82.5°	393	393	388	382	373	366	358	340	320	295	268
85°	370	371	366	359	348	341	334	318	297	274	247
87.5°	350	349	344	336	326	318	311	295	275	252	226
90°	325	325	319	312	303	296	289	273	253	231	206
92.5°	300	301	295	289	280	274	267	250	230	209	185
95°	275	274	270	265	256	250	243	227	208	187	163
97.5°	249	249	244	239	231	224	219	203	184	165	141
100°	223	222	218	214	205	200	194	179	161	141	120
102.5°	197	197	192	189	180	176	170	156	138	120	99
105°	171	171	167	163	155	150	145	132	116	99	81
107.5°	142	141	137	135	128	124	119	108	94	79	63
110°	108	108	105	104	99	97	92	83	72	60	45



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	85	84	82	80	76	73	70	62	53	42	31
115°	67	66	65	62	57	55	52	46	38	29	20
117.5°	52	51	50	47	42	40	38	32	26	19	12
120°	37	37	35	33	30	28	26	21	16	11	7
122.5°	26	26	24	23	20	19	16	13	9	6	4
125°	16	17	15	14	12	11	10	7	5	4	1
127.5°	10	10	9	8	7	6	6	5	3	1	1
130°	6	6	6	5	4	4	3	2	1	1	1
132.5°	3	3	3	3	1	0	0	0	1	1	1
135°	0	0	0	0	0	0	0	1	1	1	1
137.5°	0	0	0	0	0	0	0	1	1	1	1
140°	0	0	0	0	0	0	0	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	334	334	334	334	334	334	334	334	334	334	334
2.5°	351	350	350	347	346	345	343	341	339	337	336
5°	367	363	361	357	355	353	349	345	341	336	333
7.5°	381	375	370	364	362	358	352	347	341	335	329
10°	395	388	381	373	369	365	357	349	341	333	326
12.5°	409	400	391	382	376	371	360	350	340	330	321
15°	420	410	400	388	382	376	363	351	339	327	315
17.5°	430	418	407	393	386	379	364	349	335	321	307
20°	441	426	412	397	390	382	365	348	332	316	300
22.5°	449	433	417	399	391	382	364	346	327	309	292
25°	456	438	419	400	391	381	362	342	321	301	282
27.5°	461	441	420	400	390	379	357	337	314	292	271
30°	464	443	420	398	386	376	353	330	307	283	261
32.5°	465	442	418	394	383	371	347	323	299	274	249
35°	465	440	415	390	378	365	341	316	290	264	237
37.5°	462	436	410	384	372	359	333	307	280	252	225
40°	457	432	404	377	364	351	324	296	269	240	211
42.5°	451	424	397	369	355	342	314	286	257	228	197
45°	443	416	387	359	346	331	303	274	244	214	183
47.5°	435	406	377	350	335	320	291	261	230	200	168
50°	425	395	366	337	322	307	277	247	216	185	153
52.5°	414	384	354	324	310	294	263	232	201	170	137
55°	402	372	341	310	294	279	248	216	185	154	122
57.5°	390	359	327	296	281	265	233	201	169	138	106
60°	378	346	314	280	266	249	216	184	153	122	90
62.5°	364	331	299	266	250	233	200	168	136	105	75
65°	351	318	285	250	234	217	184	151	120	90	61
67.5°	336	303	269	234	218	201	167	134	104	75	49
70°	323	288	253	218	202	184	150	118	87	60	36
72.5°	307	273	238	202	185	168	134	101	72	47	26
75°	291	256	221	186	169	151	117	85	58	35	18
77.5°	274	240	205	169	152	135	101	71	45	25	12
80°	257	223	188	153	136	119	86	57	34	17	7
82.5°	238	206	172	137	120	103	71	45	24	11	5
85°	218	187	154	121	104	88	58	34	16	7	3
87.5°	198	168	136	104	88	73	46	25	10	4	2
90°	178	149	118	88	72	59	35	17	6	2	2
92.5°	157	129	100	72	58	46	25	11	4	2	2
95°	137	110	83	57	45	34	17	7	2	2	2
97.5°	117	91	66	44	33	24	11	4	2	2	2
100°	97	73	51	32	23	16	7	2	2	2	2
102.5°	78	57	37	21	15	10	4	2	2	2	2
105°	61	42	26	13	9	6	2	2	2	2	2
107.5°	45	30	17	8	5	4	2	2	2	2	2
110°	32	19	10	5	3	2	2	2	2	2	2





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	21	12	6	2	2	2	2	2	2	2	2
115°	12	7	4	2	2	2	2	2	2	2	2
117.5°	7	4	1	2	2	2	2	2	2	2	2
120°	4	1	1	2	2	2	2	2	2	2	2
122.5°	1	1	1	2	2	2	2	2	2	2	2
125°	1	1	1	2	2	2	2	2	2	2	2
127.5°	1	1	1	2	2	2	2	2	2	2	2
130°	1	1	1	1	2	2	2	2	2	2	2
132.5°	1	1	1	2	2	2	2	2	2	2	2
135°	1	1	1	2	2	2	2	2	2	2	2
137.5°	1	1	1	2	2	2	2	2	2	2	2
140°	1	1	1	2	2	2	2	2	2	2	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°	334	334	334	334	334	334	334	334	334	334	334
2.5°	334	332	329	327	326	323	322	319	317	315	313
5°	329	325	319	317	314	310	306	302	299	295	293
7.5°	323	317	309	306	302	296	292	286	281	276	273
10°	317	309	300	296	292	284	277	270	262	256	251
12.5°	311	300	289	284	279	269	261	252	243	236	230
15°	302	290	277	271	265	254	244	234	224	214	207
17.5°	293	279	265	258	251	238	227	215	203	193	184
20°	285	269	252	244	237	222	209	196	182	171	160
22.5°	274	256	238	230	222	206	191	175	161	148	137
25°	263	243	224	215	206	189	172	156	140	126	114
27.5°	250	229	209	199	190	171	153	136	120	104	93
30°	238	216	194	184	174	154	135	117	101	85	74
32.5°	224	201	179	168	157	137	117	99	82	69	56
35°	211	186	163	152	140	120	99	81	65	52	42
37.5°	197	172	147	135	124	102	83	66	50	39	30
40°	183	156	131	119	108	87	67	51	37	27	20
42.5°	167	140	115	103	91	71	53	37	26	18	12
45°	152	125	100	87	76	56	40	26	17	11	7
47.5°	137	109	84	72	61	43	28	17	10	6	4
50°	122	94	69	57	48	31	19	11	6	4	2
52.5°	107	79	55	44	35	21	12	6	4	2	1
55°	91	65	42	33	25	14	7	4	1	1	1
57.5°	76	51	31	23	17	9	5	2	1	1	1
60°	62	39	22	15	10	5	2	2	1	1	1
62.5°	49	28	14	10	6	3	2	2	1	1	1
65°	37	19	9	6	4	2	2	2	2	1	1
67.5°	27	13	6	4	2	2	2	2	2	2	1
70°	19	8	4	2	2	2	2	2	2	2	1
72.5°	12	5	2	2	2	2	2	2	2	2	2
75°	8	3	2	2	2	2	2	2	2	2	2
77.5°	5	2	3	2	2	2	2	2	2	2	2
80°	3	3	3	2	2	2	2	2	2	2	2
82.5°	3	3	2	3	3	2	2	2	2	2	2
85°	2	2	2	2	2	2	2	2	2	2	1
87.5°	2	2	2	2	2	2	2	2	2	2	1
90°	2	2	2	2	2	2	2	2	2	2	2
92.5°	2	2	2	2	2	2	2	2	2	2	2
95°	2	2	2	2	2	2	2	2	2	2	2
97.5°	2	2	2	2	2	2	2	2	2	2	2
100°	2	2	2	2	2	2	2	2	2	2	2
102.5°	2	2	2	2	2	2	2	2	2	2	1
105°	2	2	2	2	2	2	2	2	2	2	1
107.5°	2	2	2	2	2	2	2	2	2	2	1
110°	2	2	2	2	2	2	2	2	2	2	1



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

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	2	2	2	2	2	2	2	2	2	2	1
115°	2	2	2	2	2	2	2	2	2	2	2
117.5°	2	2	2	2	2	2	2	2	2	2	2
120°	2	2	2	2	2	2	2	2	2	2	2
122.5°	2	2	2	2	2	2	2	2	2	2	2
125°	2	2	2	2	2	2	2	2	2	2	1
127.5°	2	2	2	2	2	2	2	2	2	2	1
130°	2	2	2	2	2	2	2	2	2	2	1
132.5°	2	2	2	2	2	2	2	2	2	2	1
135°	2	2	2	2	2	2	2	2	2	2	1
137.5°	2	2	2	2	2	2	2	2	2	2	1
140°	2	2	2	2	2	2	2	2	2	2	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: P27009

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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	334	334	334	334	334	334	334	334
2.5°	311	309	308	308	307	306	305	305
5°	290	287	285	286	284	283	281	282
7.5°	269	265	262	262	261	259	257	257
10°	246	241	239	239	236	234	232	232
12.5°	224	218	216	214	211	208	206	206
15°	200	193	190	188	184	181	179	178
17.5°	175	167	164	162	157	153	151	150
20°	150	142	139	135	130	126	123	122
22.5°	126	117	114	110	104	100	97	96
25°	102	93	90	86	81	77	74	73
27.5°	81	72	69	66	61	58	55	55
30°	62	55	53	50	46	42	41	40
32.5°	47	40	38	36	32	29	28	27
35°	34	28	26	24	21	19	17	17
37.5°	23	18	17	15	13	11	10	10
40°	15	11	10	9	7	6	6	5
42.5°	8	6	5	5	4	3	3	3
45°	5	4	3	3	2	1	1	1
47.5°	3	1	1	1	1	0	0	0
50°	1	1	1	1	1	0	0	0
52.5°	1	1	1	1	1	1	0	0
55°	1	1	1	1	1	1	0	0
57.5°	1	1	1	1	1	1	1	0
60°	1	1	1	1	1	1	0	0
62.5°	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1
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°	2	1	1	1	1	1	1	1
80°	2	2	1	1	1	1	1	1
82.5°	2	2	2	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°	2	1	1	1	1	1	1	1
97.5°	2	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°	1	1	1	1	1	1	1	1



TEST NUMBER: P27009

CATALOG NUMBER: FCC-N-2-LD4-1STD-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	1
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	1	1	1
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)