

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Eaton Lighting Division  
(formerly Cooper Lighting)

Brand :

Report Number: G1-1805-772-1-R3

Luminaire Tested: **SELDWA50SD, ATLEDWA300SD**

Test Date: 06/14/18

Tested By:



Glean Heath  
Photometric Technician

Approved By:



Carlos Bogantes  
Master Technician



NVLAP Lab Code: 200050-0

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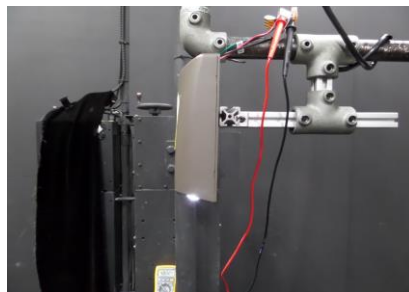
**Test Information**

Test Method: LM-79-08  
 Report Number: G1-1805-772-1-R3  
 Test Lab: INNOVATIONS CENTER(G1)  
 Test Date: 06/14/18  
 Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
 Product Line:  
 Catalog Number: SELDWA50SD, ATLEDWA300SD  
 Description: DIE-CAST ALUMINUM UNIT WITH "BLOB" LENSES.\*\*\*THIS IS A REVISION OF R2 TO UPDATE THE TEST\*\*\*  
 Light Source: UNKNOWN  
 UNKNOWN  
 Ballast/Driver: AGILENT  
 IN0198

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 691.6 lumens  
 Efficiency: N/A  
 Efficacy: 82.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.28 / 2.56 / 1.39  
 Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 0.1' x H: 0.03')  
 CIE Type: Direct

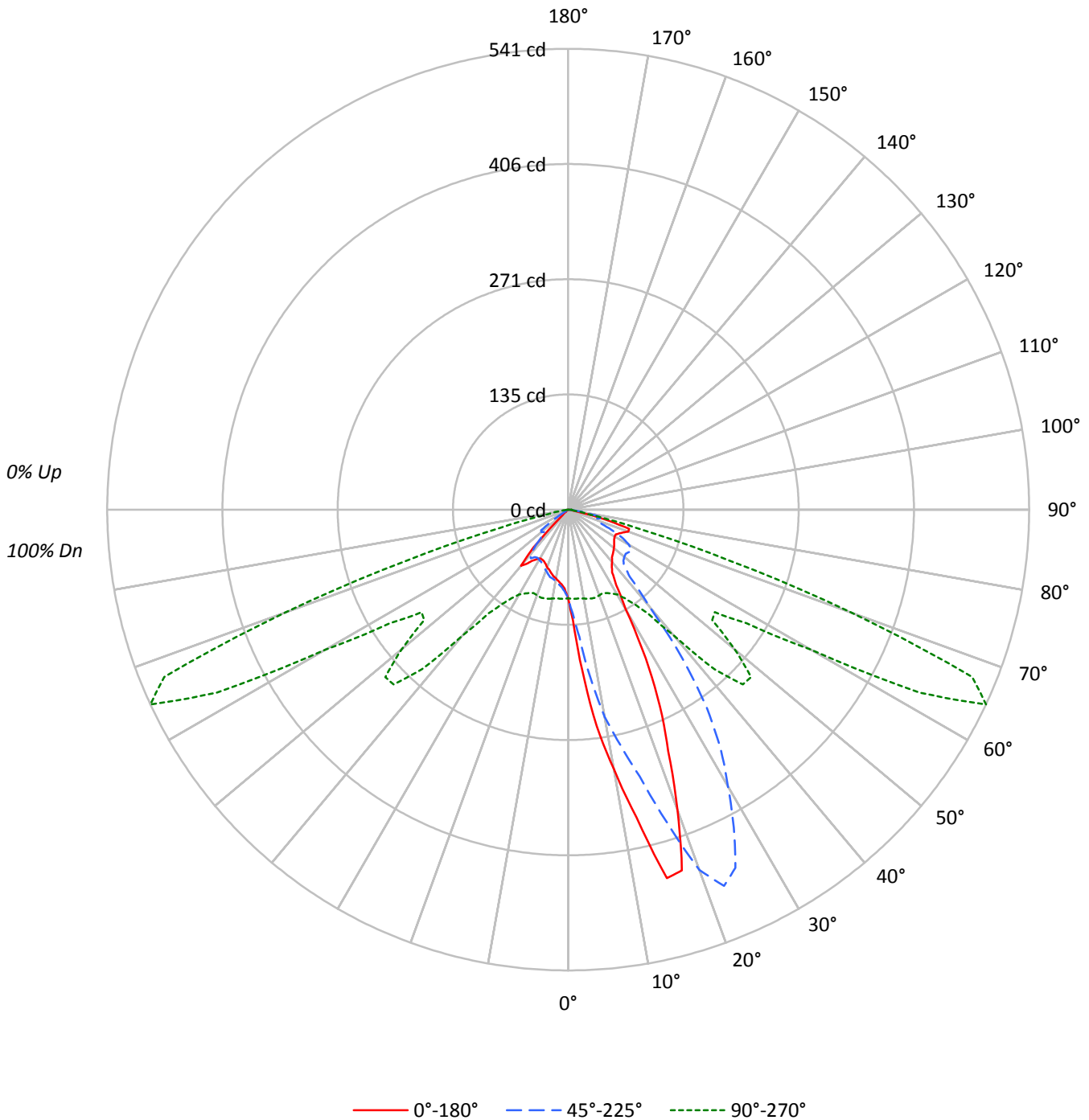
Input Watts (W): 8.34  
 Input Voltage (V): 4.80  
 Input Current (Ain): 1.74  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: 0.5 HR  
 Operation Time: 7.0 HR  
 Ambient Temperature (°C): 25.2  
 Test Distance: 25 FT



Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P1	4/19/2018	10/19/2018
Power Meter	XITRON IN0074	1/2/2018	1/2/2019
AC Power Source	CHROMA 6420	1/2/2018	1/2/2019
DC Power Supply	AGILENT IN0198	1/2/2018	1/2/2019
Room Thermometer	ONSET IN0143	1/2/2018	1/2/2019

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### Luminous Intensity Polar Plot



TEST NUMBER: G1-1805-772-1-R3  
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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69				69
3	90	79	70	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58				58
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49				49
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27				27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24				24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22				22

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

	0°	90°	180°
0°	22428	22428	22428
5°	39868	22601	18563
10°	64473	22948	17054
15°	92578	23698	15912
20°	77588	23986	14897
25°	53230	24940	13986
30°	28654	27597	14009
35°	19580	33988	15882
40°	17992	51513	19341
45°	17360	83029	2346
50°	17300	79381	741
55°	17372	72228	263
60°	17881	127497	284
65°	20494	242187	311
70°	25923	188753	346
75°	17296	54949	393
80°	2299	8159	0
85°	1117	2835	0

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.8	1.9
10°-20°	55.6	8.0
20°-30°	94.5	13.7
30°-40°	118.2	17.1
40°-50°	149.2	21.6
50°-60°	110.0	15.9
60°-70°	106.1	15.3
70°-80°	42.9	6.2
80°-90°	2.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	162.9	23.6
0°-40°	281.1	40.6
0°-60°	540.2	78.1
0°-90°	691.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	189	150	105	91	88	22
15°	448	324	108	82	77	115
25°	255	464	108	71	67	114
35°	90	283	135	68	73	60
45°	74	92	290	38	10	57
55°	66	87	210	23	1	59
65°	66	56	541	1	1	67
75°	44	39	82	0	1	44
85°	2	3	2	0	0	2
90°	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°	104	104	104	104	104	104	104	104	104	104	104
2.5°	130	132	131	129	130	127	128	127	124	124	122
5°	189	188	187	184	180	177	175	168	162	155	150
7.5°	256	259	256	252	245	243	241	234	222	210	198
10°	310	311	308	303	297	294	291	282	271	258	247
12.5°	370	373	366	362	349	346	341	327	312	296	283
15°	448	447	444	440	432	424	418	395	373	346	324
17.5°	444	444	447	453	455	455	455	451	437	414	385
20°	375	380	390	400	413	419	428	446	459	463	450
22.5°	307	312	317	324	330	339	354	387	427	458	478
25°	255	261	264	270	280	286	298	321	359	413	464
27.5°	197	199	202	214	232	242	253	278	309	358	421
30°	135	138	143	151	172	182	197	229	266	311	375
32.5°	105	106	110	115	123	130	138	169	214	266	333
35°	90	91	93	94	100	104	109	126	155	213	283
37.5°	84	84	85	85	87	88	91	98	111	148	220
40°	80	80	81	81	81	82	83	86	91	105	148
42.5°	76	76	77	78	78	79	79	81	83	89	107
45°	74	74	75	75	75	75	76	77	80	83	92
47.5°	72	72	73	74	72	73	73	75	77	81	88
50°	70	70	70	70	70	70	71	73	76	80	86
52.5°	68	68	67	68	67	68	68	70	74	79	85
55°	66	65	65	65	65	65	66	68	72	78	87
57.5°	64	64	64	63	64	63	64	66	70	80	89
60°	63	63	64	62	62	62	63	65	72	78	82
62.5°	63	64	63	62	62	63	65	67	70	72	72
65°	66	66	65	64	65	67	68	66	65	60	56
67.5°	70	69	69	68	69	67	63	56	50	43	40
70°	75	74	72	66	60	55	48	40	35	34	35
72.5°	75	73	63	53	44	40	38	34	34	34	35
75°	44	43	42	41	40	39	38	36	36	37	39
77.5°	8	9	17	24	30	32	32	34	35	36	36
80°	5	4	4	5	7	9	11	15	16	19	21
82.5°	3	3	3	3	3	3	3	3	4	4	4
85°	2	2	2	2	2	2	2	2	2	2	3
87.5°	1	1	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	62.5°	65°	67.5°	70°	71°	72°	73°	74°
0°	104	104	104	104	104	104	104	104	104	104	104
2.5°	120	117	116	115	115	114	112	112	111	109	111
5°	143	137	131	127	127	124	122	121	120	117	118
7.5°	184	171	157	151	145	138	133	131	129	126	126
10°	228	214	193	184	171	162	152	148	144	140	138
12.5°	268	251	230	217	203	190	176	170	165	160	155
15°	303	284	263	251	237	222	206	198	191	186	177
17.5°	350	321	297	287	269	255	238	229	220	213	204
20°	421	380	342	328	310	291	272	263	254	245	237
22.5°	477	448	404	385	358	334	311	303	293	281	274
25°	501	506	473	450	422	390	361	348	337	321	314
27.5°	491	533	539	518	490	457	421	406	388	366	358
30°	454	536	578	572	560	523	483	463	445	423	409
32.5°	419	515	589	602	603	584	553	535	515	496	475
35°	366	469	575	618	635	638	626	618	603	597	561
37.5°	306	416	553	638	671	705	716	710	704	702	677
40°	239	361	537	652	713	769	801	810	807	823	807
42.5°	175	307	510	650	745	848	929	943	954	979	960
45°	124	242	465	641	777	907	998	1023	1042	1052	1051
47.5°	103	176	427	599	754	895	999	1038	1061	1057	1071
50°	98	137	358	523	682	819	926	964	978	942	973
52.5°	96	129	249	380	535	667	751	774	779	709	771
55°	100	112	174	245	359	451	526	542	555	539	578
57.5°	94	101	127	160	217	291	369	397	427	445	481
60°	84	86	94	109	145	201	281	319	362	415	453
62.5°	71	68	65	71	94	145	236	284	338	408	454
65°	52	51	55	61	74	109	196	252	320	427	477
67.5°	42	46	52	56	66	89	181	251	320	413	471
70°	40	44	50	53	66	89	150	199	255	373	411
72.5°	39	45	54	56	62	73	109	133	168	231	264
75°	40	44	48	51	54	59	76	88	99	119	137
77.5°	37	37	39	39	41	42	47	53	58	66	68
80°	21	22	22	20	20	19	19	20	22	25	25
82.5°	5	5	7	7	7	7	7	8	8	9	9
85°	3	3	4	4	3	3	3	3	3	4	3
87.5°	2	2	3	3	2	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0

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**CANDELA DISTRIBUTION (continued):**

	75°	76°	77.5°	78°	79°	80°	81°	82°	83°	84°	85°
0°	104	104	104	104	104	104	104	104	104	104	104
2.5°	111	110	109	108	109	109	108	108	108	108	107
5°	117	116	115	112	114	113	112	111	111	110	109
7.5°	124	122	120	117	118	117	115	114	113	112	110
10°	135	132	128	124	124	122	120	118	116	114	113
12.5°	150	146	139	135	133	129	126	122	120	118	116
15°	170	163	154	149	144	139	134	130	126	122	119
17.5°	196	187	174	169	161	154	147	140	133	128	124
20°	226	216	200	193	184	174	163	152	144	136	130
22.5°	263	251	233	223	214	198	186	172	160	149	138
25°	302	286	268	255	244	230	213	196	180	165	151
27.5°	343	326	301	290	276	259	241	221	203	184	167
30°	391	372	341	331	315	293	272	251	228	208	188
32.5°	453	431	400	390	366	341	318	291	265	240	215
35°	543	519	481	471	441	413	385	351	321	290	257
37.5°	661	634	588	587	544	508	473	434	396	358	316
40°	791	774	739	742	686	651	605	563	508	460	414
42.5°	949	934	896	889	844	810	761	705	653	598	540
45°	1038	1027	993	959	937	899	845	794	733	674	615
47.5°	1061	1054	1014	956	962	916	863	804	746	683	614
50°	968	950	904	832	839	796	752	692	629	573	510
52.5°	753	723	694	622	664	630	600	563	522	478	431
55°	587	584	580	537	570	559	538	516	488	455	417
57.5°	503	520	539	515	550	548	543	532	522	499	470
60°	493	527	561	556	589	595	611	604	603	592	572
62.5°	514	564	635	640	683	706	726	732	738	723	711
65°	549	611	686	700	760	790	809	814	808	802	785
67.5°	551	615	707	742	770	796	801	805	797	785	758
70°	479	536	611	632	666	677	670	662	644	628	586
72.5°	316	371	414	414	448	427	398	396	370	345	329
75°	165	184	201	200	216	216	204	191	177	166	157
77.5°	73	76	85	86	87	83	78	70	68	62	56
80°	26	27	27	27	25	24	23	23	21	19	18
82.5°	9	9	9	10	9	9	8	8	7	7	7
85°	3	3	3	4	3	3	3	3	2	2	2
87.5°	1	1	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	86°	87°	88°	89°	90°	91°	92°	93°	94°	95°	100°
0°	104	104	104	104	104	104	104	104	104	104	104
2.5°	106	107	104	105	105	105	105	105	104	104	102
5°	108	108	105	106	105	106	105	104	104	103	100
7.5°	109	109	105	106	105	105	104	103	102	102	98
10°	111	110	106	107	106	105	103	102	101	100	96
12.5°	114	112	107	108	107	105	104	103	101	100	94
15°	117	114	109	110	108	106	104	103	101	100	93
17.5°	120	117	110	111	108	106	104	102	100	98	92
20°	124	119	110	111	107	104	102	99	97	96	90
22.5°	130	122	113	111	106	103	100	98	96	94	89
25°	139	128	119	113	108	104	100	97	95	93	88
27.5°	152	137	125	118	111	105	101	98	95	93	88
30°	168	150	134	125	115	108	104	99	96	94	88
32.5°	192	170	149	135	123	115	108	103	99	97	89
35°	226	198	168	151	135	123	115	110	105	102	91
37.5°	278	240	199	175	153	136	126	118	111	107	95
40°	367	323	277	225	193	167	149	136	127	121	107
42.5°	476	412	356	300	254	217	185	162	145	132	106
45°	553	480	402	346	290	240	200	170	150	135	101
47.5°	540	469	386	348	291	238	195	164	144	129	90
50°	458	405	322	307	255	207	172	147	129	115	74
52.5°	388	340	265	253	213	181	153	128	108	94	60
55°	378	333	260	249	210	176	146	120	100	85	58
57.5°	432	390	315	296	248	205	166	132	108	90	60
60°	534	491	394	385	329	272	224	171	132	106	66
62.5°	688	638	549	525	465	395	326	261	206	161	74
65°	759	714	630	604	541	470	389	316	242	182	71
67.5°	726	692	605	578	513	447	367	293	229	174	60
70°	563	519	444	405	353	304	253	213	166	128	43
72.5°	311	283	230	228	197	163	134	109	88	69	18
75°	142	135	98	100	82	69	57	43	35	27	8
77.5°	48	44	30	30	25	21	18	15	12	10	4
80°	17	14	12	11	9	8	7	6	5	4	2
82.5°	6	5	5	4	3	3	2	2	2	1	1
85°	2	2	2	2	2	2	1	1	1	1	0
87.5°	2	3	4	4	4	3	2	1	1	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°	150°
0°	104	104	104	104	104	104	104	104	104	104	104
2.5°	101	101	100	100	98	97	96	96	95	95	94
5°	98	97	96	96	94	93	92	91	90	90	89
7.5°	95	94	93	92	90	89	88	88	86	86	85
10°	92	91	90	89	88	87	86	85	84	84	82
12.5°	91	89	88	87	86	85	84	83	82	82	80
15°	90	88	87	86	85	83	82	82	80	79	78
17.5°	89	86	85	84	83	81	80	79	77	77	75
20°	87	84	83	83	81	79	78	76	75	74	73
22.5°	86	83	82	81	79	77	76	74	72	71	70
25°	85	82	81	80	78	75	74	71	70	68	68
27.5°	84	81	80	79	76	74	72	69	68	67	66
30°	84	81	80	78	75	72	70	68	67	65	65
32.5°	85	81	79	77	74	71	68	67	66	65	65
35°	86	81	79	77	74	71	68	68	67	67	67
37.5°	89	85	83	82	79	74	72	72	72	73	73
40°	97	88	85	82	77	73	71	69	68	68	69
42.5°	95	85	81	78	71	65	60	55	52	50	50
45°	87	77	72	67	57	49	42	38	39	41	44
47.5°	76	61	56	49	42	38	37	39	40	42	41
50°	57	49	47	44	39	37	39	41	41	34	21
52.5°	51	46	45	43	39	40	42	40	28	13	5
55°	50	45	44	44	44	42	38	23	8	4	3
57.5°	51	50	50	47	43	36	20	6	3	2	1
60°	60	51	48	44	35	19	4	3	2	1	1
62.5°	58	47	42	35	17	4	3	1	1	1	1
65°	50	35	27	16	5	3	2	1	1	1	1
67.5°	36	14	8	6	3	2	1	0	0	1	1
70°	14	6	5	4	2	1	0	0	0	1	1
72.5°	6	3	3	3	1	0	0	0	0	1	1
75°	3	1	1	1	0	0	0	0	0	0	1
77.5°	1	0	0	0	0	0	0	0	0	0	1
80°	0	0	0	0	0	0	0	0	0	0	0
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

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CANDELA DISTRIBUTION (continued):

	155°	157.5°	160°	165°	170°	175°	180°
0°	104	104	104	104	104	104	104
2.5°	94	94	93	93	94	94	93
5°	89	88	88	87	88	88	88
7.5°	85	85	84	84	85	85	85
10°	83	82	82	81	82	82	82
12.5°	81	80	80	79	80	80	80
15°	78	78	77	77	77	77	77
17.5°	76	75	74	74	75	74	74
20°	72	72	71	71	72	72	72
22.5°	70	69	69	68	69	69	69
25°	68	68	67	67	68	68	67
27.5°	67	67	67	67	67	66	66
30°	65	66	66	67	68	66	66
32.5°	65	66	65	67	69	69	69
35°	68	68	68	69	72	73	73
37.5°	73	73	73	74	77	79	80
40°	69	70	71	74	79	83	86
42.5°	52	53	54	57	59	59	60
45°	45	44	41	34	24	15	10
47.5°	33	27	20	8	6	5	4
50°	8	5	4	3	3	3	3
52.5°	3	3	3	2	2	1	1
55°	2	2	1	1	1	1	1
57.5°	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1
77.5°	1	1	0	0	1	1	1
80°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

END OF REPORT