

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: INVUE

Report Number: P677981

Luminaire Tested: **CCW-SA-2-AMB-U-SL4**

Issue Date: 04/26/2023

Test Information

Test Method: LM-79-08
Report Number: P677981
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2-AMB-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @500mA w/
SL4 distribution lens
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

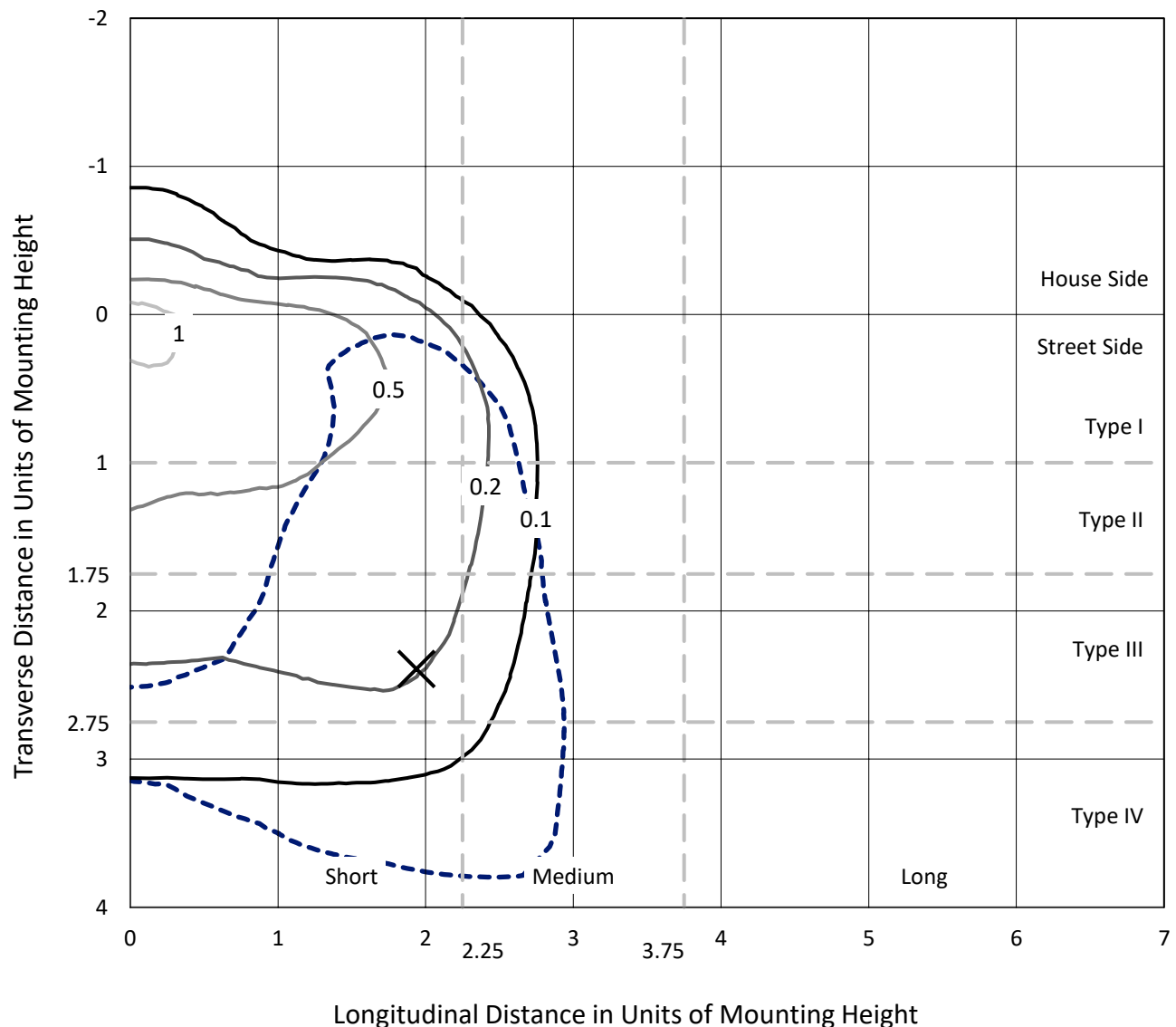
Lumens per Lamp: N/A
Luminaire Lumens: 1740.2 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

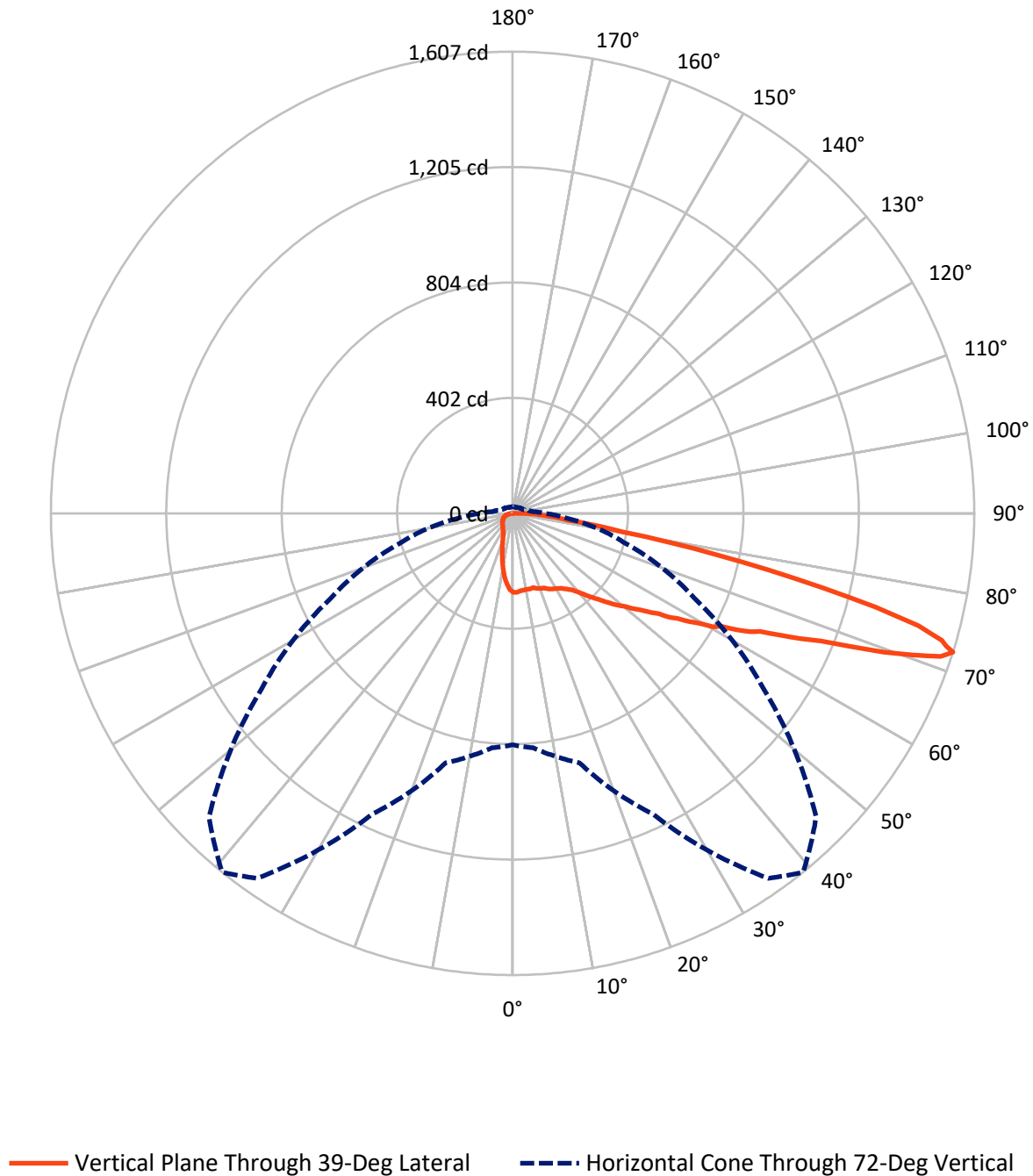
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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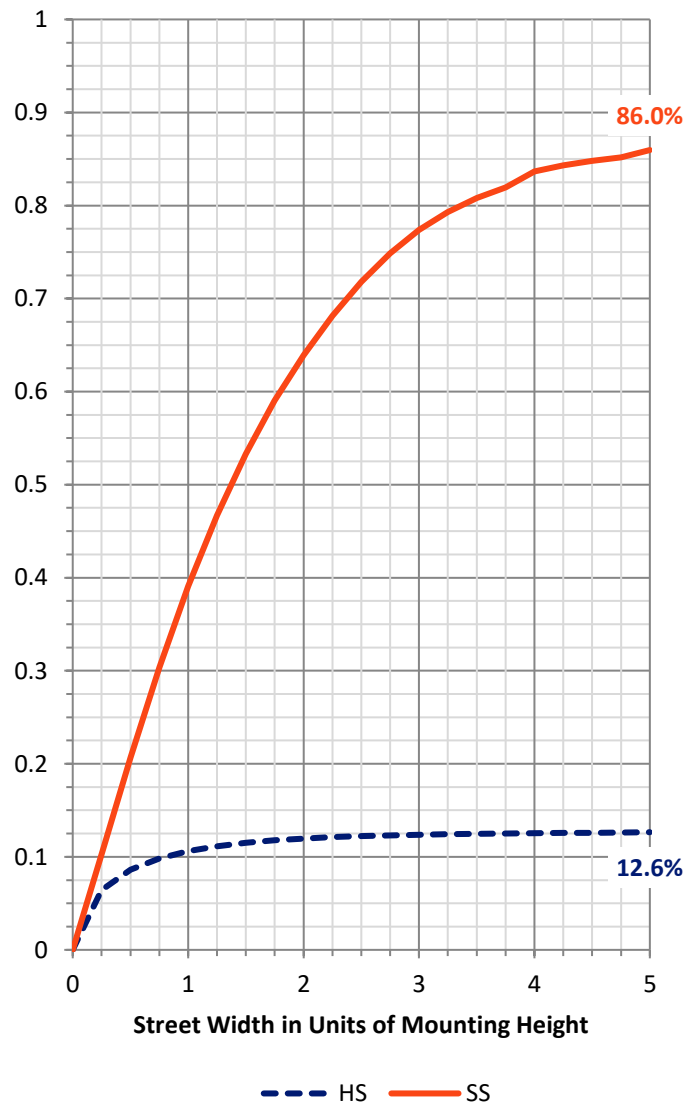
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.5	0.0	222.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1517.7	0.0	1517.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	1740.2	0.0	1740.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	1.4
10°-20°	61.0	3.5
20°-30°	92.8	5.3
30°-40°	134.2	7.7
40°-50°	207.4	11.9
50°-60°	332.2	19.1
60°-70°	486.7	28.0
70°-80°	347.2	20.0
80°-90°	54.5	3.1
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°-90°	1740.2	100.0
0°-180°	1740.2	100.0

Coefficient of Utilization



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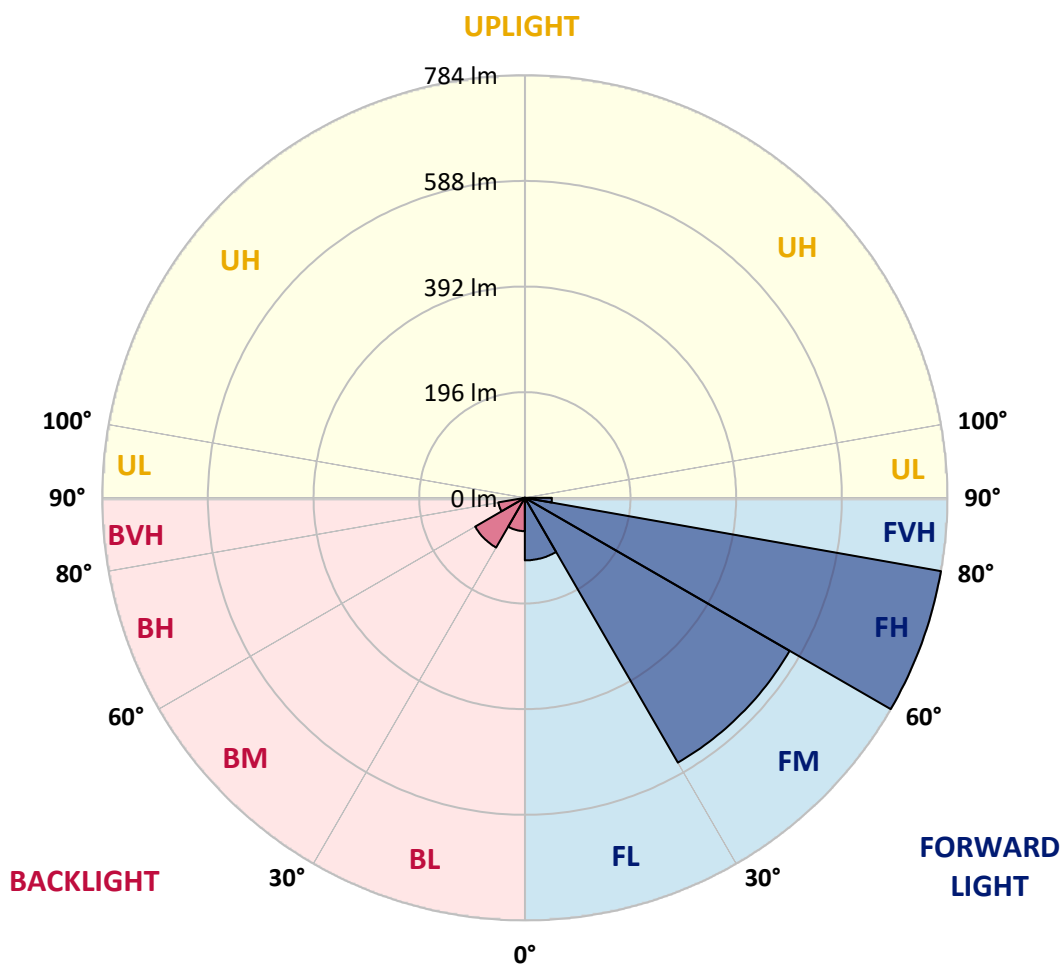
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.1	6.7			
FM	(30°-60°)	567.3	32.6			
FH	(60°-80°)	784.0	45.1			G1/1800
FVH	(80°-90°)	50.3	2.9			G1/100
BL	(0°-30°)	61.8	3.6	B0/110		
BM	(30°-60°)	106.5	6.1	B0/220		
BH	(60°-80°)	49.9	2.9	B0/110		G0/110
BVH	(80°-90°)	4.2	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	275	275	275	275	275	275	275	275	275	275	275
2.5°	276	278	277	279	276	275	278	274	275	274	273
5°	277	274	276	273	271	271	273	271	270	270	267
7.5°	266	268	271	267	270	270	268	265	263	266	262
10°	259	262	266	266	265	269	267	263	264	264	259
12.5°	255	256	261	266	268	270	267	265	262	261	259
15°	254	255	260	265	271	268	269	271	265	264	259
17.5°	255	260	264	270	274	275	276	271	266	265	261
20°	262	264	270	278	279	279	279	274	271	269	261
22.5°	273	271	276	282	287	282	283	275	271	272	266
25°	283	280	286	289	291	292	286	280	273	280	275
27.5°	293	289	295	298	294	298	293	283	276	283	282
30°	304	304	310	308	304	303	297	285	282	295	289
32.5°	325	322	322	322	312	311	308	297	295	312	301
35°	342	344	342	336	324	324	322	312	315	337	324
37.5°	363	362	358	351	340	338	341	330	339	366	349
40°	384	379	375	367	365	365	365	358	373	405	387
42.5°	393	397	388	389	396	397	396	389	411	456	431
45°	415	412	408	412	420	431	438	428	460	516	481
47.5°	437	431	424	441	459	472	482	479	511	589	544
50°	460	456	445	478	489	511	529	527	575	667	603
52.5°	503	490	469	510	540	560	582	589	658	747	669
55°	551	533	507	556	604	617	649	665	739	826	719
56°	570	544	523	578	628	656	682	710	770	852	731
57°	586	570	542	596	652	681	718	746	797	895	759
58°	609	585	560	618	688	721	748	781	834	918	773
59°	615	610	583	638	725	753	790	815	876	942	793
60°	644	616	605	674	771	802	839	857	918	982	818
61°	652	642	620	696	794	823	867	892	950	1006	827
62°	657	650	632	719	825	878	906	943	987	1037	826
63°	672	661	664	740	873	924	948	982	1029	1057	812
64°	695	686	679	770	907	954	999	1054	1073	1061	785
65°	712	702	704	801	954	1021	1076	1123	1115	1076	742
66°	735	717	730	847	1023	1094	1147	1184	1134	1039	680
67°	752	757	765	903	1096	1160	1237	1240	1138	993	608
67.5°	772	772	793	927	1146	1213	1298	1266	1134	952	565
68°	784	785	817	946	1192	1266	1344	1285	1127	904	511
69°	810	814	864	1016	1272	1379	1425	1297	1067	821	439
70°	838	845	901	1094	1400	1477	1480	1268	963	690	337
71°	832	831	920	1125	1468	1570	1519	1191	834	558	253
72°	806	819	899	1155	1551	1607	1494	1067	697	409	186
72.5°	789	793	883	1138	1545	1578	1439	1008	644	352	162
73°	759	776	871	1125	1524	1558	1395	910	546	297	145
74°	693	711	818	1073	1453	1466	1233	755	402	217	106
75°	614	638	741	970	1310	1306	1068	589	281	159	84



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
77.5°	326	344	438	609	845	817	589	281	138	78	54
80°	200	204	236	299	401	385	272	168	81	53	38
82.5°	126	126	150	179	200	192	163	151	58	30	16
85°	84	92	112	120	130	125	129	151	39	14	10
87.5°	57	66	90	79	81	71	91	152	13	7	4
90°	0	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	275	275	275	275	275	275	275	275	275	275	275
2.5°	271	270	270	270	268	266	266	266	264	261	261
5°	266	264	263	262	255	250	245	240	241	234	235
7.5°	262	262	256	247	237	230	220	210	207	202	200
10°	257	257	250	236	221	205	191	178	168	162	165
12.5°	253	252	240	221	203	183	161	145	133	128	130
15°	255	252	231	208	182	158	135	120	106	100	100
17.5°	255	248	224	193	163	133	112	97	86	82	81
20°	259	247	215	177	141	114	95	82	75	73	73
22.5°	261	247	207	162	124	97	83	73	70	67	69
25°	267	244	195	145	107	85	73	69	67	66	65
27.5°	270	248	186	129	92	77	69	66	65	64	63
30°	275	245	176	113	82	71	66	63	62	61	61
32.5°	282	249	163	100	74	65	62	60	59	59	58
35°	290	248	152	88	68	61	59	58	57	57	57
37.5°	312	256	136	79	63	58	56	56	55	55	54
40°	337	267	127	72	59	56	53	53	53	52	52
42.5°	369	278	118	69	57	53	52	50	51	50	49
45°	406	294	112	65	55	51	49	49	49	49	48
47.5°	448	314	106	62	54	49	47	47	46	46	45
50°	491	336	103	60	51	47	46	45	44	43	43
52.5°	536	356	103	59	50	45	44	43	42	41	41
55°	564	374	106	59	48	43	41	42	40	39	39
56°	589	382	107	59	47	42	41	41	39	38	38
57°	597	388	106	59	47	41	40	40	38	37	37
58°	613	397	106	58	47	41	39	39	38	37	36
59°	626	401	103	59	47	40	38	38	37	36	36
60°	633	394	101	58	46	39	37	38	37	35	35
61°	628	380	98	58	46	38	36	37	36	35	35
62°	619	364	93	56	46	38	35	36	35	35	34
63°	586	335	88	56	44	38	35	35	35	34	34
64°	546	298	82	54	44	36	34	35	35	34	34
65°	502	260	78	53	43	36	32	33	35	34	33
66°	447	222	71	50	42	35	31	32	33	33	33
67°	385	191	66	48	41	34	30	31	32	32	32
67.5°	348	170	63	48	40	33	30	30	32	31	31
68°	314	152	62	46	39	33	29	30	31	30	31
69°	251	122	57	44	37	32	28	28	29	29	29
70°	192	99	52	41	35	31	27	27	27	27	27
71°	145	83	48	39	33	29	26	24	25	25	25
72°	112	69	44	36	32	28	25	23	23	23	23
72.5°	100	65	43	34	30	27	24	22	21	22	22
73°	89	60	41	33	29	26	24	21	21	21	21
74°	71	53	38	31	26	24	22	20	19	19	19
75°	60	47	35	28	25	22	21	19	18	18	18



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	44	37	28	22	19	18	17	15	15	15	15
80°	32	29	22	16	15	14	13	12	12	12	11
82.5°	18	23	16	12	11	10	10	9	9	8	8
85°	13	17	11	8	7	6	6	6	6	5	4
87.5°	4	10	5	3	3	2	2	2	2	1	1
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)