

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: P679709

Luminaire Tested: **CCW-SA-2-AMB-U-T4FT-HSS**

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P679709
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-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @500mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

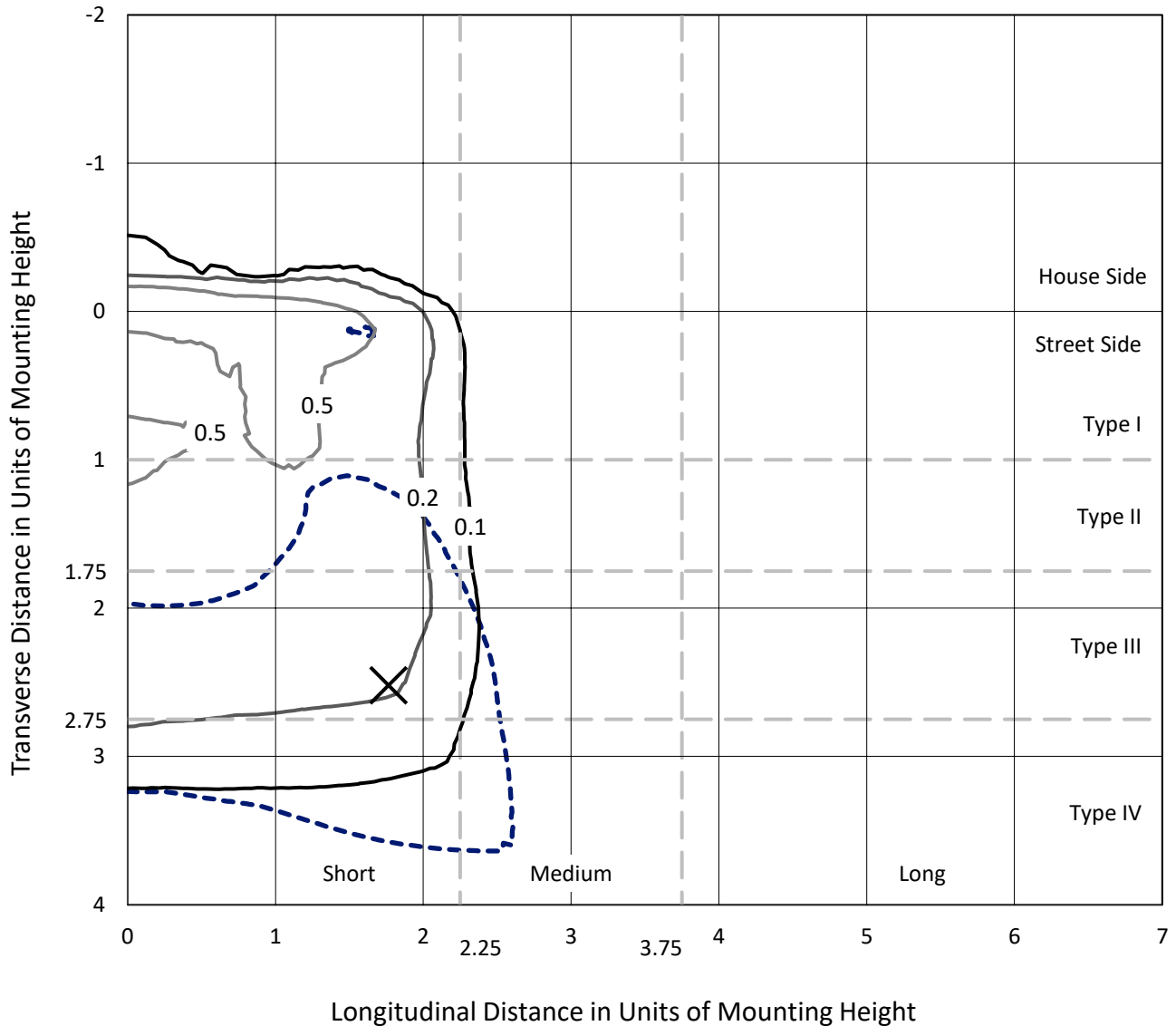
Lumens per Lamp: N/A
Luminaire Lumens: 1307.9 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

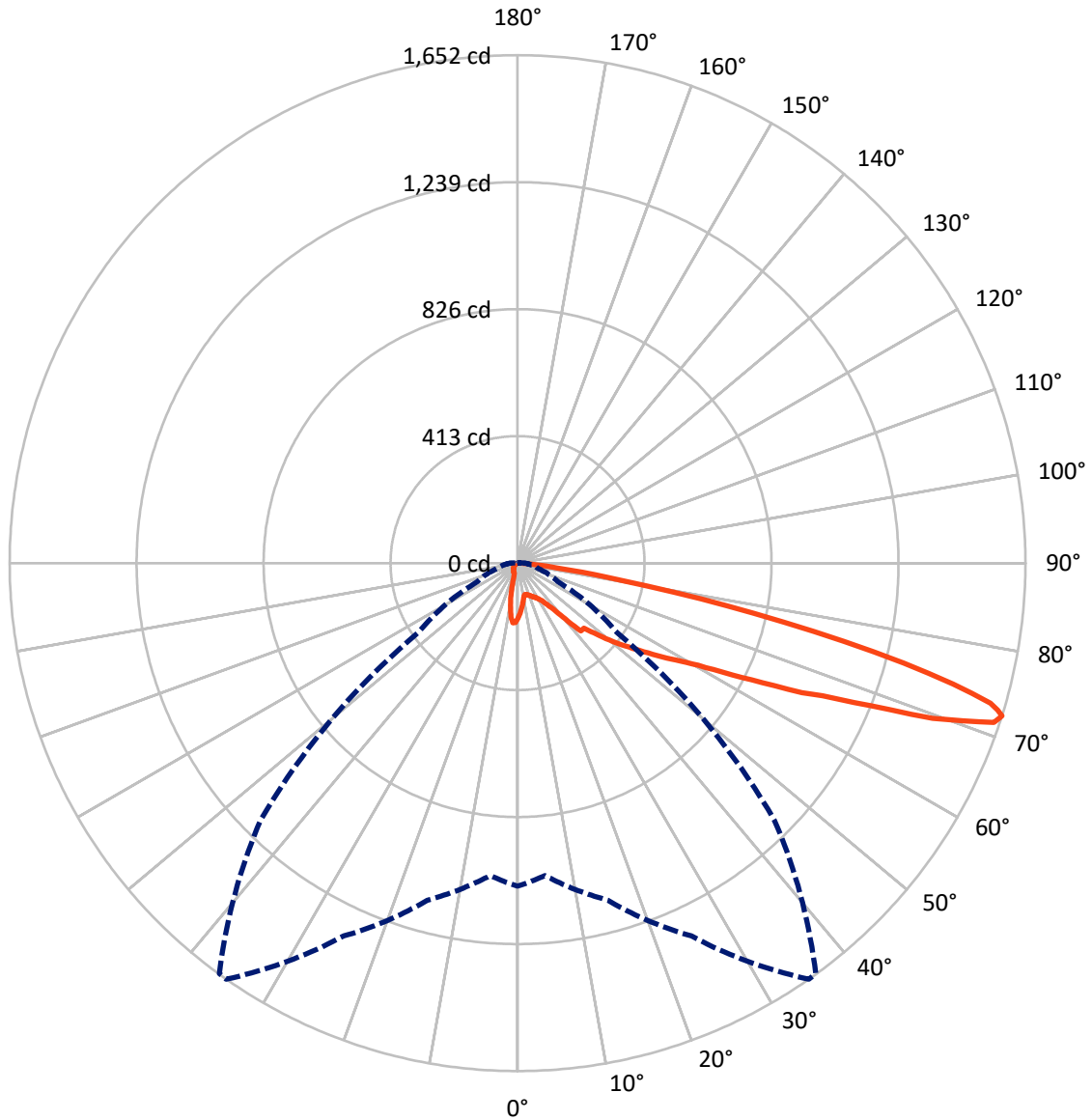
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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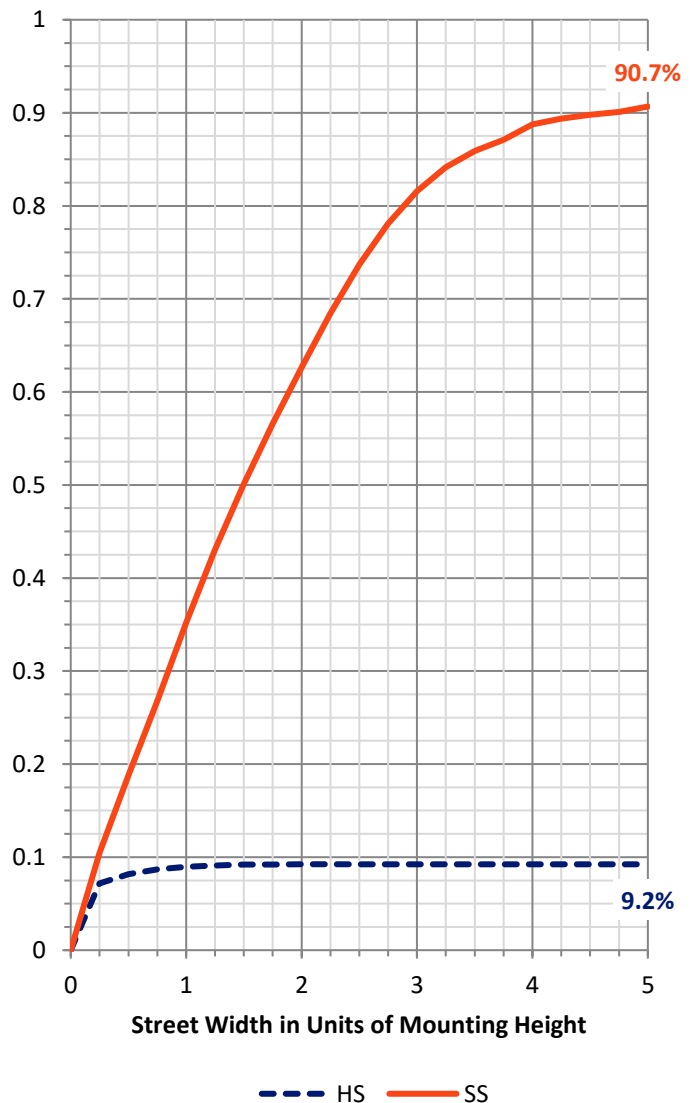
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	121.4	0.0	121.4
	% Fixture	9.3	0.0	9.3
Street Side	Lumens	1186.5	0.0	1186.5
	% Fixture	90.7	0.0	90.7
Total	Lumens	1307.9	0.0	1307.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	1.2
10°-20°	33.7	2.6
20°-30°	50.7	3.9
30°-40°	84.8	6.5
40°-50°	159.8	12.2
50°-60°	285.1	21.8
60°-70°	408.7	31.2
70°-80°	254.7	19.5
80°-90°	15.1	1.2
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°	1307.9	100.0
0°-180°	1307.9	100.0



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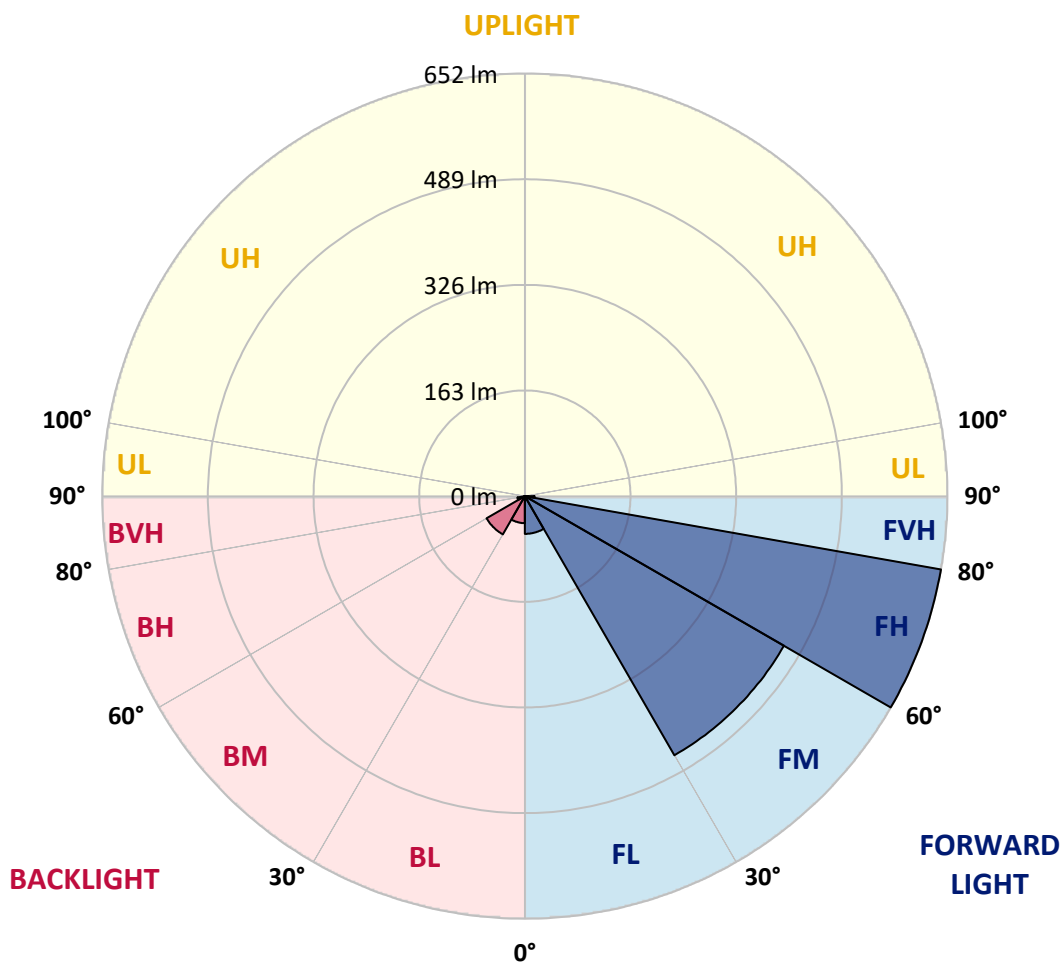
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.2	4.4			
FM (30°-60°)	461.5	35.3			
FH (60°-80°)	651.7	49.8			G0/660
FVH (80°-90°)	15.1	1.2			G1/100
BL (0°-30°)	41.6	3.2	B0/110		
BM (30°-60°)	68.1	5.2	B0/220		
BH (60°-80°)	11.6	0.9	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			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°	36°	45°	55°	65°	75°	85°
0°	179	179	179	179	179	179	179	179	179	179	179
2.5°	158	158	159	162	162	162	165	167	170	175	177
5°	138	137	139	142	145	143	150	157	163	169	178
7.5°	114	113	114	119	127	126	134	144	153	164	176
10°	99	100	100	104	112	112	122	135	148	161	176
12.5°	99	98	98	100	105	105	115	128	144	160	178
15°	101	101	99	100	106	106	113	126	141	162	183
17.5°	106	105	101	103	109	109	115	128	141	163	185
20°	112	110	105	107	112	112	119	129	142	161	189
22.5°	120	117	109	111	117	117	125	134	144	164	195
25°	128	124	114	115	122	121	130	140	147	166	205
27.5°	134	132	122	121	127	127	136	148	154	171	218
30°	142	141	131	130	135	134	144	159	168	182	239
32.5°	150	149	141	139	146	146	157	178	191	198	257
35°	196	188	166	152	165	164	181	206	208	208	284
37.5°	258	251	228	198	191	191	209	225	224	228	322
40°	301	295	273	250	239	239	241	247	250	257	376
42.5°	325	316	300	297	302	301	256	277	290	295	436
45°	356	343	321	313	302	299	292	322	343	344	495
47.5°	383	373	355	351	344	339	358	395	408	400	585
50°	413	411	392	399	400	399	430	476	479	468	661
52.5°	457	450	436	441	454	457	511	576	547	522	747
55°	499	486	481	492	515	517	608	658	591	580	808
56°	512	504	506	509	545	542	648	698	607	592	834
57°	537	523	529	535	575	569	689	727	611	611	846
58°	556	551	558	566	603	605	734	752	623	620	863
59°	599	578	588	590	637	648	789	774	629	630	867
60°	636	626	618	622	675	687	838	790	623	641	861
61°	703	675	661	665	726	736	870	802	630	645	812
62°	751	738	701	709	789	797	911	814	630	629	759
63°	819	798	770	769	850	857	957	826	630	608	676
64°	891	869	840	832	925	924	1003	831	630	570	589
65°	975	946	907	917	1017	1003	1045	841	615	509	495
66°	1049	1020	998	1007	1082	1085	1112	851	586	451	379
67°	1101	1073	1067	1095	1185	1193	1178	848	533	368	283
67.5°	1134	1119	1099	1151	1238	1240	1205	838	504	320	249
68°	1157	1126	1135	1196	1302	1312	1245	823	467	281	202
69°	1173	1155	1180	1266	1441	1433	1313	764	375	204	136
70°	1188	1155	1204	1342	1537	1538	1353	658	281	143	89
71°	1154	1152	1197	1364	1633	1616	1302	520	205	100	59
72°	1051	1020	1135	1338	1652	1650	1181	394	147	71	37
72.5°	898	917	1086	1313	1633	1634	1098	344	126	60	30
73°	783	800	991	1265	1604	1577	1010	288	107	51	23
74°	585	564	789	1129	1470	1430	849	204	79	39	16
75°	407	417	601	950	1297	1271	647	144	59	33	12



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
77.5°	184	191	256	495	785	786	260	61	36	23	6
80°	59	66	117	223	340	321	88	31	24	19	3
82.5°	17	18	32	83	127	112	28	19	18	15	1
85°	8	8	14	36	44	38	11	10	13	11	1
87.5°	3	3	6	14	15	13	4	4	7	7	0
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°	179	179	179	179	179	179	179	179	179	179	179
2.5°	178	179	184	188	191	191	193	195	197	198	196
5°	180	182	189	198	198	200	195	194	190	192	191
7.5°	180	185	197	199	196	186	176	167	157	153	151
10°	183	189	200	195	181	161	139	123	110	105	103
12.5°	188	197	202	189	160	128	100	77	61	55	54
15°	192	204	206	175	132	89	53	41	37	36	36
17.5°	200	212	201	157	100	51	36	35	35	35	34
20°	205	220	199	134	66	36	33	33	34	33	34
22.5°	219	227	192	106	39	32	32	32	33	33	33
25°	230	235	178	77	31	30	31	31	32	32	32
27.5°	247	244	167	46	28	28	30	31	32	32	32
30°	269	258	147	32	26	26	27	30	32	32	32
32.5°	287	273	126	27	24	24	25	27	31	32	32
35°	318	289	100	24	23	23	23	25	29	32	32
37.5°	353	305	65	23	22	21	21	23	26	30	32
40°	400	324	39	21	21	20	20	21	23	27	28
42.5°	434	333	29	20	19	18	18	19	21	23	23
45°	469	338	22	19	18	17	17	17	19	18	18
47.5°	532	351	18	17	17	16	16	16	16	14	14
50°	582	371	15	15	15	15	15	14	13	12	12
52.5°	644	383	13	12	13	14	13	12	11	10	9
55°	687	373	11	10	11	12	11	9	8	8	7
56°	695	362	10	9	11	11	10	9	7	7	6
57°	706	349	10	8	10	10	9	8	7	6	6
58°	714	326	9	7	9	9	8	7	6	5	5
59°	715	299	8	6	8	8	7	6	5	4	4
60°	693	267	7	6	7	8	7	6	4	3	3
61°	654	234	7	5	6	7	6	5	3	2	2
62°	602	197	6	4	5	6	5	4	2	1	1
63°	535	165	5	4	4	5	5	3	1	0	0
64°	451	141	4	3	4	4	4	2	0	0	0
65°	358	110	4	3	3	4	3	1	0	0	0
66°	274	85	3	2	3	3	2	1	0	0	0
67°	199	66	3	2	2	2	1	0	0	0	0
67.5°	173	55	2	2	2	2	1	0	0	0	0
68°	139	49	2	1	2	1	1	0	0	0	0
69°	98	33	2	1	1	1	0	0	0	0	0
70°	66	22	2	1	1	0	0	0	0	0	0
71°	42	14	1	1	0	0	0	0	0	0	0
72°	24	9	1	1	0	0	0	0	0	0	0
72.5°	21	8	1	1	0	0	0	0	0	0	0
73°	16	7	1	1	0	0	0	0	0	0	0
74°	12	5	1	0	0	0	0	0	0	0	0
75°	9	3	1	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°
77.5°	3	1	0	0	0	0	0	0	0	0	0
80°	2	1	0	0	0	0	0	0	0	0	0
82.5°	1	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

(END OF REPORT)