

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: STREETWORKS

Report Number: P256778

Luminaire Tested: **ULA-A5-D-U-ASYM-VMx-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ULA-A5-D-U-ASYM-VMx-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC
Light Source: (60) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4687.2 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B1 - U5 - G3

Input Watts (W): 36.7
Input Voltage (V): NR
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: 28.75 FT



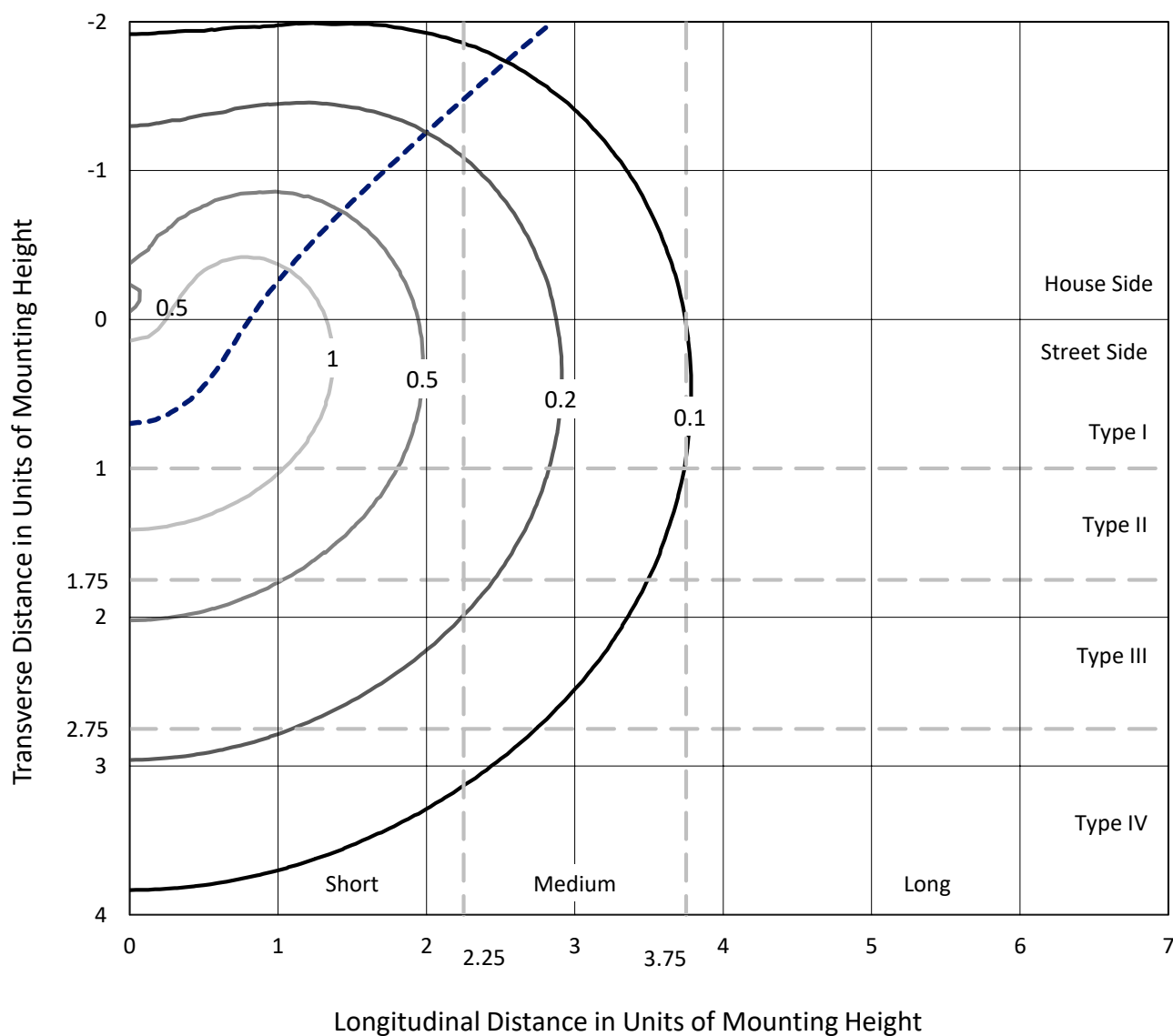
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

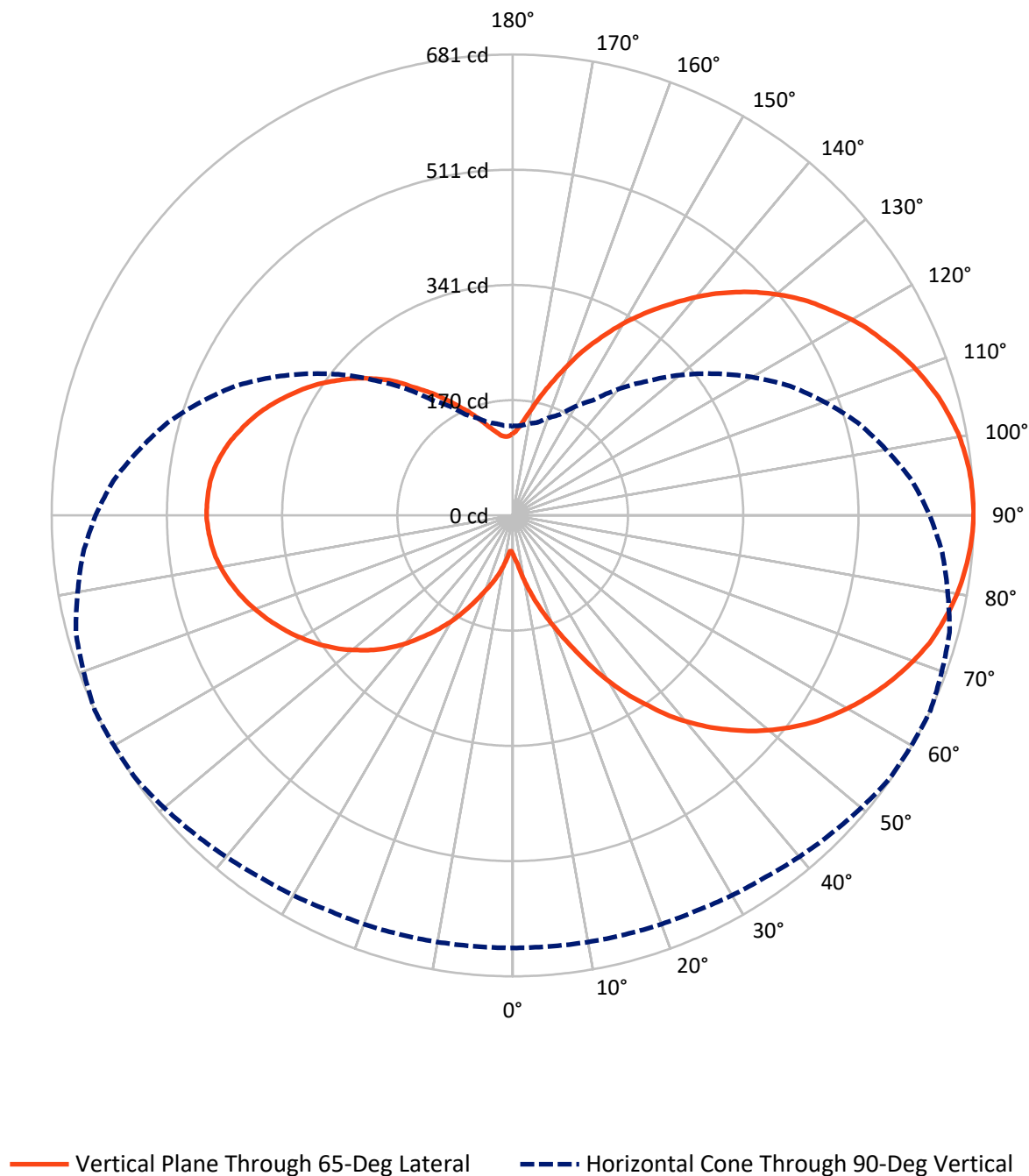


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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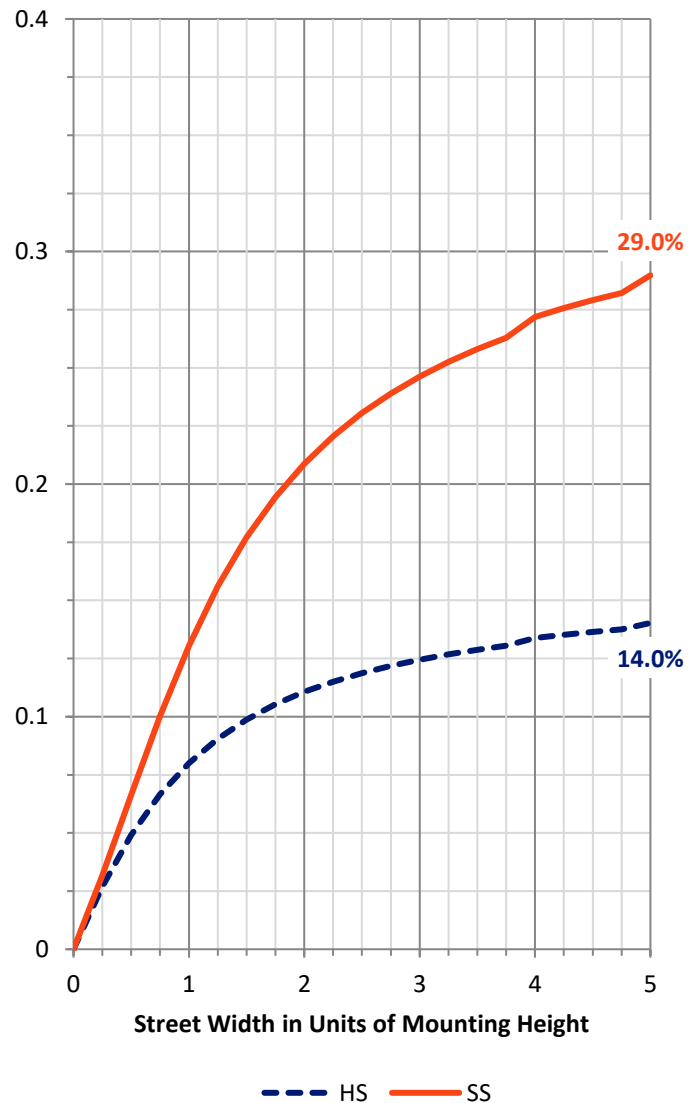
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	735.2	772.2	1507.5
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1572.0	1607.7	3179.7
	% Fixture	33.5	34.3	67.8
Total	Lumens	2307.2	2379.9	4687.2
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.1
10°-20°	31.9	0.7
20°-30°	80.4	1.7
30°-40°	156.8	3.3
40°-50°	248.7	5.3
50°-60°	341.2	7.3
60°-70°	424.4	9.1
70°-80°	490.1	10.5
80°-90°	527.0	11.2
90°-100°	529.0	11.3
100°-110°	493.5	10.5
110°-120°	428.2	9.1
120°-130°	346.3	7.4
130°-140°	256.6	5.5
140°-150°	169.9	3.6
150°-160°	98.3	2.1
160°-170°	45.7	1.0
170°-180°	12.3	0.3
0°-90°	2307.2	49.2
0°-180°	4687.2	100.0

Coefficient of Utilization



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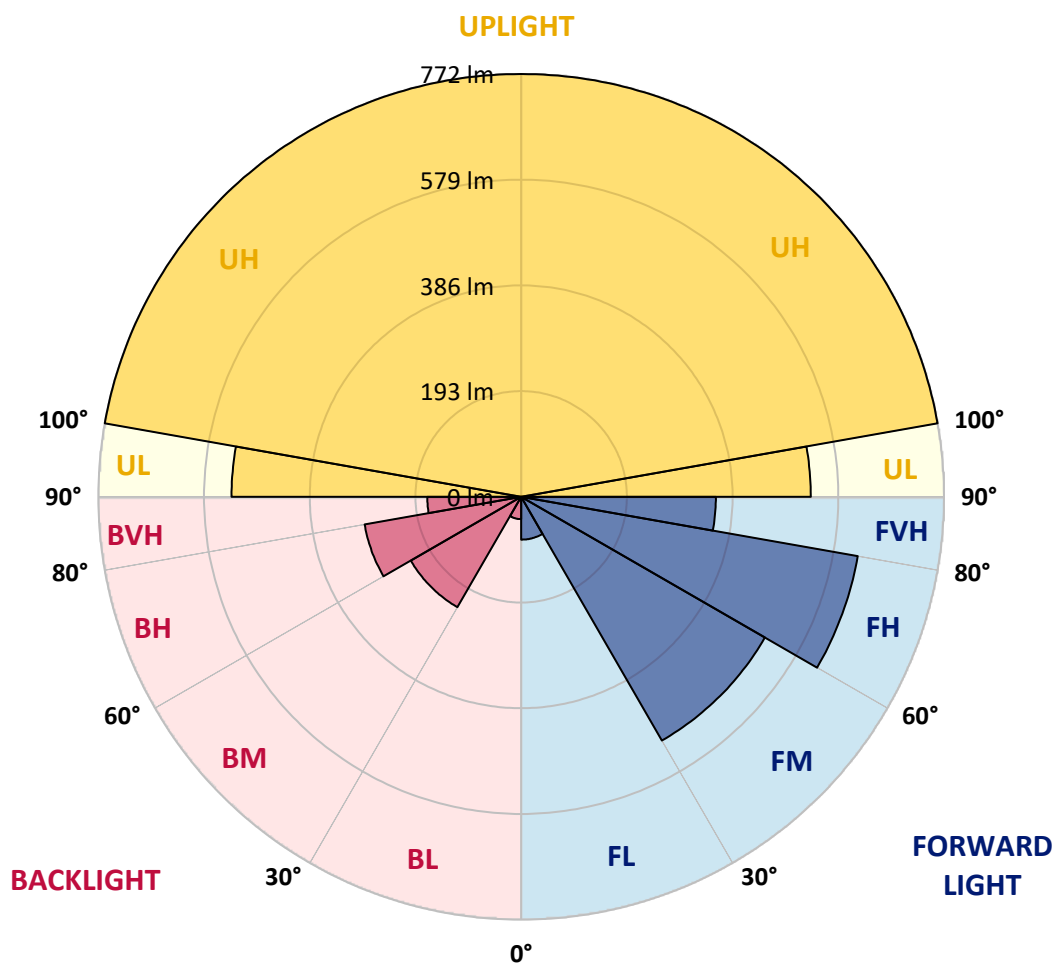
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.2	1.7			
FM	(30°-60°)	514.0	11.0			
FH	(60°-80°)	624.2	13.3			G0/660
FVH	(80°-90°)	355.5	7.6			G3/500
BL	(0°-30°)	40.7	0.9	B0/110		
BM	(30°-60°)	232.7	5.0	B1/1000		
BH	(60°-80°)	290.4	6.2	B1/500		G1/500
BVH	(80°-90°)	171.5	3.7			G2/225
UL	(90°-100°)	529.0	11.3		U4/1000	
UH	(100°-180°)	772.2	16.5		U4/1000	

BUG Rating: B1-U5-G3

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	57	57	57	57	57	57	57	57	57	57	57
2.5°	70	68	68	67	67	66	65	64	62	60	59
5°	84	83	83	81	79	77	74	71	68	64	63
7.5°	100	99	99	96	94	91	88	84	80	76	74
10°	116	115	115	113	111	107	103	100	94	89	87
12.5°	133	131	131	129	128	125	121	117	110	104	101
15°	149	148	148	147	146	143	139	135	128	121	117
17.5°	167	166	165	165	165	162	159	155	147	138	134
20°	187	185	185	186	186	184	181	176	168	158	152
22.5°	208	207	208	208	209	208	205	200	192	180	173
25°	231	230	232	233	235	236	233	227	218	204	196
27.5°	259	258	259	263	264	265	263	258	247	231	221
30°	284	284	286	289	292	294	292	288	276	258	247
32.5°	310	311	312	316	320	323	321	318	304	287	273
35°	338	339	339	344	349	351	352	345	334	313	298
37.5°	366	365	366	371	376	379	380	376	362	339	324
40°	390	390	392	397	402	406	407	402	389	364	348
42.5°	415	415	417	421	427	431	433	428	413	389	371
45°	438	438	440	445	451	455	458	452	437	412	395
47.5°	460	461	462	466	473	477	481	476	460	432	415
50°	481	482	483	488	493	498	503	498	483	454	435
52.5°	500	501	503	505	512	518	523	519	502	473	453
55°	520	520	521	523	530	537	543	539	522	492	472
57.5°	537	537	538	540	546	553	560	557	540	509	489
60°	552	552	553	555	561	570	577	574	557	525	505
62.5°	567	567	568	570	576	585	593	590	573	541	520
65°	580	580	580	582	589	599	607	605	587	556	534
67.5°	592	592	592	593	601	611	621	619	602	570	547
70°	604	602	604	604	612	623	633	632	615	583	560
72.5°	613	612	613	615	622	633	644	644	627	594	572
75°	620	620	620	622	630	642	653	653	637	604	582
77.5°	627	627	628	629	637	649	662	661	646	613	592
80°	632	631	632	635	642	655	668	668	653	621	599
82.5°	636	635	636	639	646	660	673	673	659	628	606
85°	638	638	639	642	649	663	676	677	664	633	611
87.5°	639	639	640	644	651	664	678	680	667	635	614
90°	639	639	641	644	652	665	679	681	668	637	616
92.5°	639	638	641	644	651	664	678	680	668	637	616
95°	637	636	639	642	649	662	675	678	666	636	614
97.5°	633	633	635	639	646	658	672	674	662	632	611
100°	629	629	631	634	641	654	666	669	655	627	605
102.5°	624	624	625	628	636	648	659	661	649	619	598
105°	617	616	618	621	628	640	651	653	639	610	589
107.5°	608	608	608	612	619	631	641	642	628	599	577
110°	599	599	599	602	610	621	631	631	616	587	567



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	589	588	588	591	599	610	620	618	603	574	554
115°	577	577	576	579	588	598	607	604	590	560	540
117.5°	565	564	564	567	575	586	594	591	575	546	526
120°	552	551	550	553	562	572	579	575	558	530	511
122.5°	537	536	536	539	548	558	564	558	543	514	495
125°	521	522	521	524	532	543	548	542	526	497	478
127.5°	505	505	504	508	516	526	531	524	508	479	461
130°	488	488	487	491	499	508	511	504	488	460	442
132.5°	469	470	470	474	481	488	492	484	468	441	423
135°	451	450	451	454	462	468	469	462	447	420	403
137.5°	430	431	431	434	441	447	448	440	425	399	382
140°	410	410	412	414	419	424	424	416	402	376	360
142.5°	389	389	390	394	398	401	400	392	378	353	339
145°	369	369	370	373	376	378	376	369	355	330	317
147.5°	350	349	351	353	355	356	354	346	331	310	296
150°	330	330	330	333	334	334	331	323	309	288	276
152.5°	310	309	310	311	312	311	307	299	286	267	256
155°	289	289	290	290	290	289	285	276	264	247	234
157.5°	269	269	269	269	269	267	262	254	240	225	217
160°	249	249	248	247	246	242	238	230	220	207	200
162.5°	227	226	226	225	224	221	216	209	200	189	183
165°	207	206	205	205	203	200	196	190	182	172	167
167.5°	189	188	187	187	185	181	177	172	165	157	153
170°	173	172	171	170	168	165	161	156	151	145	141
172.5°	157	156	155	155	153	150	147	143	139	134	132
175°	142	143	142	141	140	137	135	132	130	127	125
177.5°	130	131	131	130	129	127	126	124	123	121	120
180°	120	120	120	120	120	120	120	120	120	120	120



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57	57	57	57	57	57	57	57	57	57
2.5°	58	55	53	50	47	45	43	41	40	40
5°	60	57	53	49	46	42	40	38	37	37
7.5°	71	67	62	57	53	48	45	43	42	42
10°	83	78	72	66	61	56	52	49	48	48
12.5°	97	90	83	75	69	62	58	55	54	53
15°	112	103	94	84	76	69	63	59	58	58
17.5°	128	116	105	93	83	73	67	62	60	60
20°	145	131	116	102	89	78	69	64	61	61
22.5°	165	148	129	112	97	83	72	65	62	61
25°	186	165	144	124	105	88	76	68	63	63
27.5°	209	185	160	136	113	94	79	70	65	64
30°	234	206	177	148	122	100	83	72	67	66
32.5°	258	226	193	161	131	105	87	75	69	68
35°	284	248	210	174	140	111	90	77	71	70
37.5°	308	269	226	186	149	117	94	80	73	72
40°	331	290	244	199	158	123	98	83	75	74
42.5°	353	310	261	211	166	129	102	86	78	77
45°	375	328	277	223	175	134	106	88	81	79
47.5°	395	346	292	235	183	140	109	91	83	82
50°	414	364	306	247	191	145	113	94	86	85
52.5°	432	380	321	259	198	150	117	97	89	88
55°	449	396	334	269	206	155	120	101	92	91
57.5°	467	411	347	280	213	160	124	104	95	94
60°	481	425	359	289	220	165	128	107	98	97
62.5°	497	438	371	299	227	170	132	111	102	101
65°	510	451	382	308	233	174	135	114	105	104
67.5°	524	464	393	317	240	179	139	118	109	108
70°	536	475	403	325	247	184	143	121	113	111
72.5°	547	487	413	333	255	188	147	125	116	115
75°	557	496	422	340	260	192	150	128	120	118
77.5°	567	505	430	347	265	197	154	132	123	122
80°	575	512	437	352	269	200	157	135	126	125
82.5°	581	518	443	357	273	203	159	137	128	127
85°	586	523	447	361	277	205	162	139	130	129
87.5°	590	526	450	364	278	207	163	141	132	131
90°	592	528	452	365	280	208	164	142	133	132
92.5°	591	528	452	366	281	209	165	142	133	132
95°	590	527	451	365	280	209	165	142	133	132
97.5°	586	524	449	363	279	208	163	141	132	131
100°	581	518	445	360	277	206	162	139	130	129
102.5°	573	512	439	356	273	203	159	137	128	127
105°	564	504	432	350	269	200	156	134	125	124
107.5°	555	493	423	343	264	196	153	131	122	121
110°	543	483	414	336	258	191	149	127	119	117



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	530	472	404	327	252	187	146	124	115	114
115°	517	459	393	319	243	182	142	121	112	111
117.5°	503	446	381	309	236	177	138	117	108	107
120°	488	433	369	299	229	172	134	114	105	104
122.5°	473	419	357	290	222	167	131	110	102	100
125°	457	404	344	279	215	163	127	107	99	98
127.5°	440	388	330	268	207	158	124	105	96	95
130°	422	373	317	258	200	153	121	102	93	92
132.5°	403	356	303	245	192	148	117	99	91	90
135°	383	339	288	233	184	143	114	97	89	88
137.5°	364	321	274	222	177	139	112	95	88	87
140°	342	302	258	211	169	134	109	93	86	85
142.5°	321	284	241	200	162	130	107	92	85	84
145°	301	266	227	190	155	126	104	91	85	84
147.5°	282	250	214	180	148	122	102	90	84	83
150°	263	231	200	170	142	118	101	89	84	83
152.5°	241	215	188	161	136	115	99	89	84	84
155°	224	200	176	152	131	113	99	90	85	85
157.5°	207	187	166	145	127	111	99	91	87	87
160°	191	174	156	139	123	110	99	92	89	88
162.5°	176	161	146	132	119	108	99	93	90	90
165°	161	149	137	126	116	106	99	95	92	92
167.5°	148	139	130	121	113	106	100	96	95	94
170°	138	131	124	117	111	105	101	99	97	97
172.5°	129	124	119	114	110	106	104	102	101	101
175°	123	120	117	114	112	109	108	107	106	106
177.5°	120	118	117	116	115	114	114	113	113	113
180°	120	120	120	120	120	120	120	120	120	120

(END OF REPORT)