

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: P694598

Luminaire Tested: **LXF.LXT-PA16-20-740-U-T2U-FL**

Issue Date: 7/5/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P694598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-062-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/5/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA16-20-740-U-T2U-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 420mA LIGHTSQUARE WITH 16 LEDS AND TYPE II U OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2783.9 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Short  
BUG Rating: B1 - U3 - G2

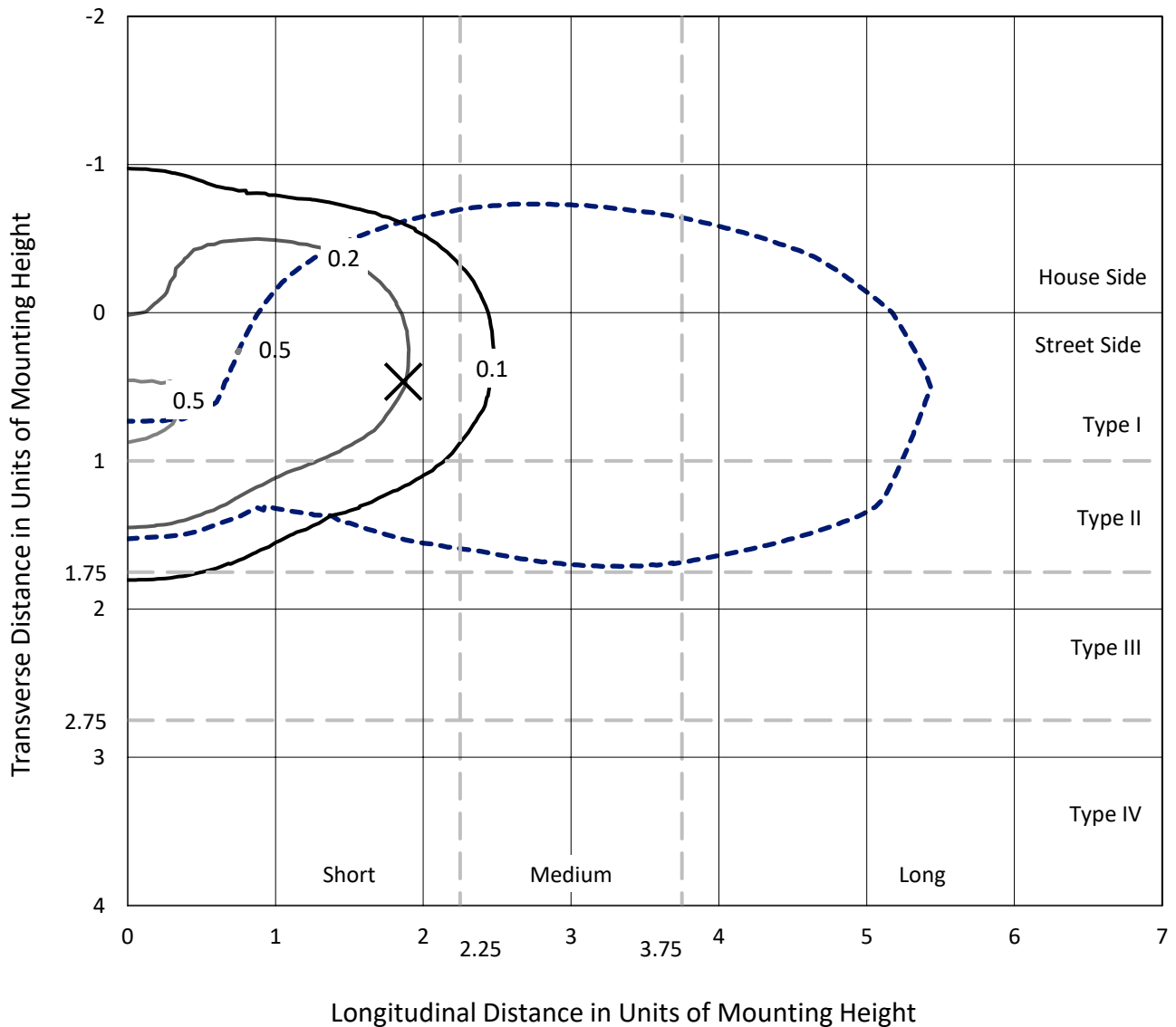
Input Watts (W): 21.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

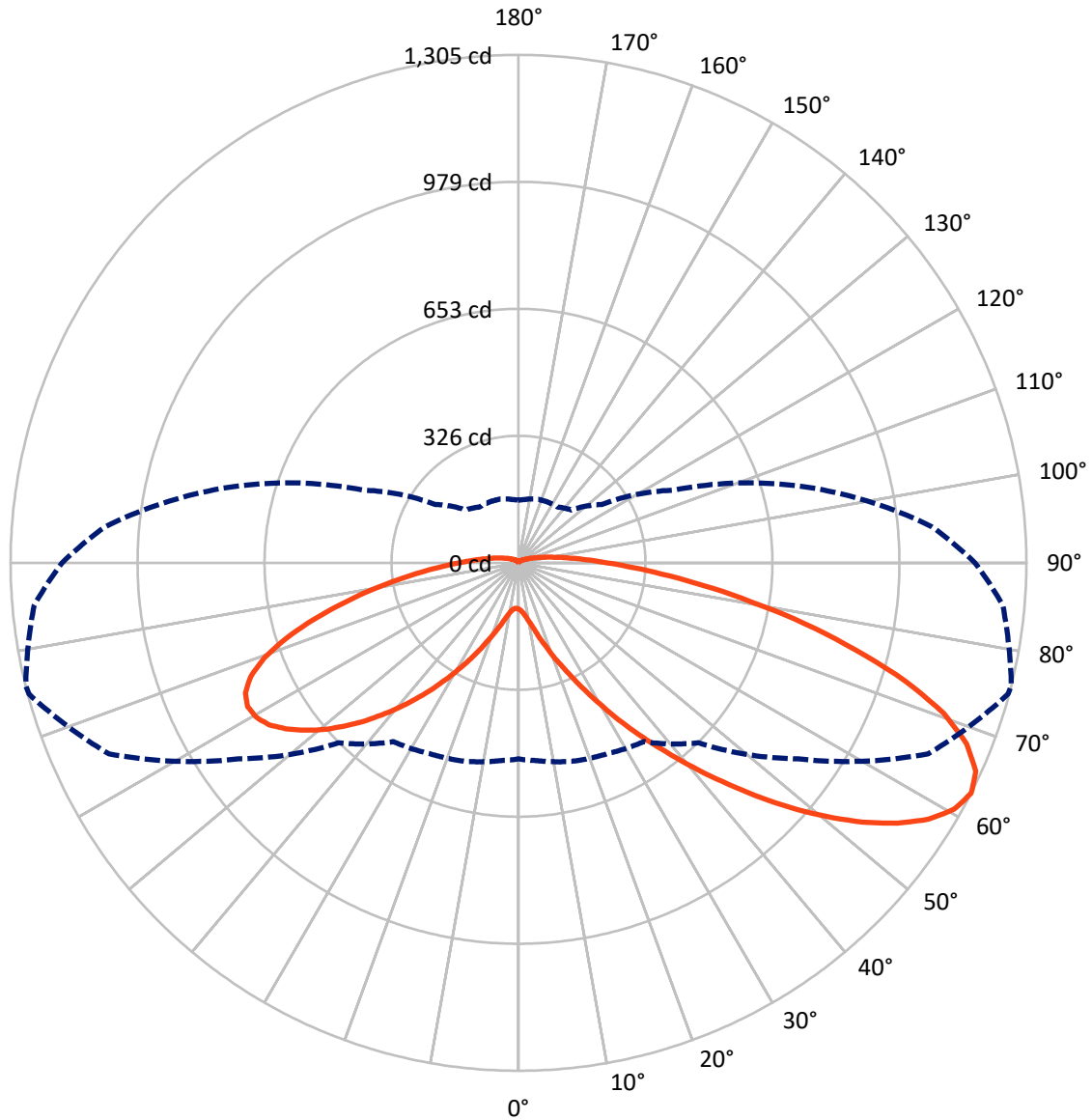
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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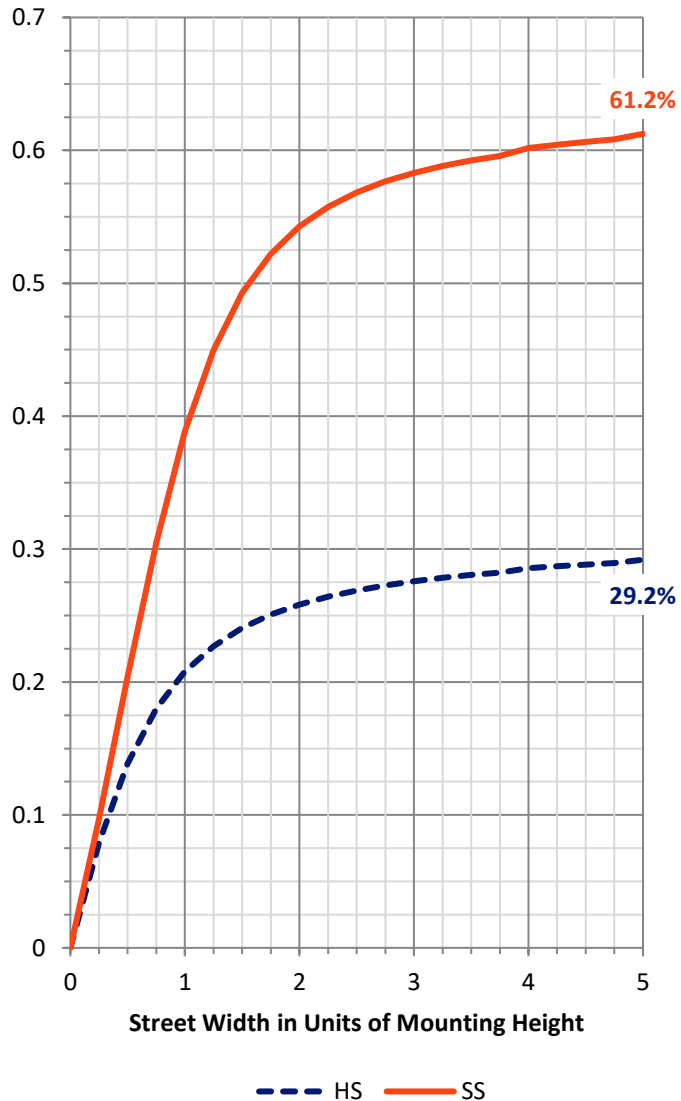
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	846.9	83.2	930.1
	% Fixture	30.4	3.0	33.4
<b>Street Side</b>	Lumens	1752.0	101.8	1853.8
	% Fixture	62.9	3.7	66.6
<b>Total</b>	Lumens	2598.9	185.0	2783.9
	% Fixture	93.4	6.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.4	0.4
10°-20°	51.2	1.8
20°-30°	130.8	4.7
30°-40°	261.4	9.4
40°-50°	422.4	15.2
50°-60°	552.5	19.8
60°-70°	560.5	20.1
70°-80°	403.0	14.5
80°-90°	204.6	7.4
90°-100°	92.5	3.3
100°-110°	45.4	1.6
110°-120°	24.3	0.9
120°-130°	13.4	0.5
130°-140°	6.7	0.2
140°-150°	2.5	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2598.9	93.4
0°-180°	2783.9	100.0

**Coefficient of Utilization**

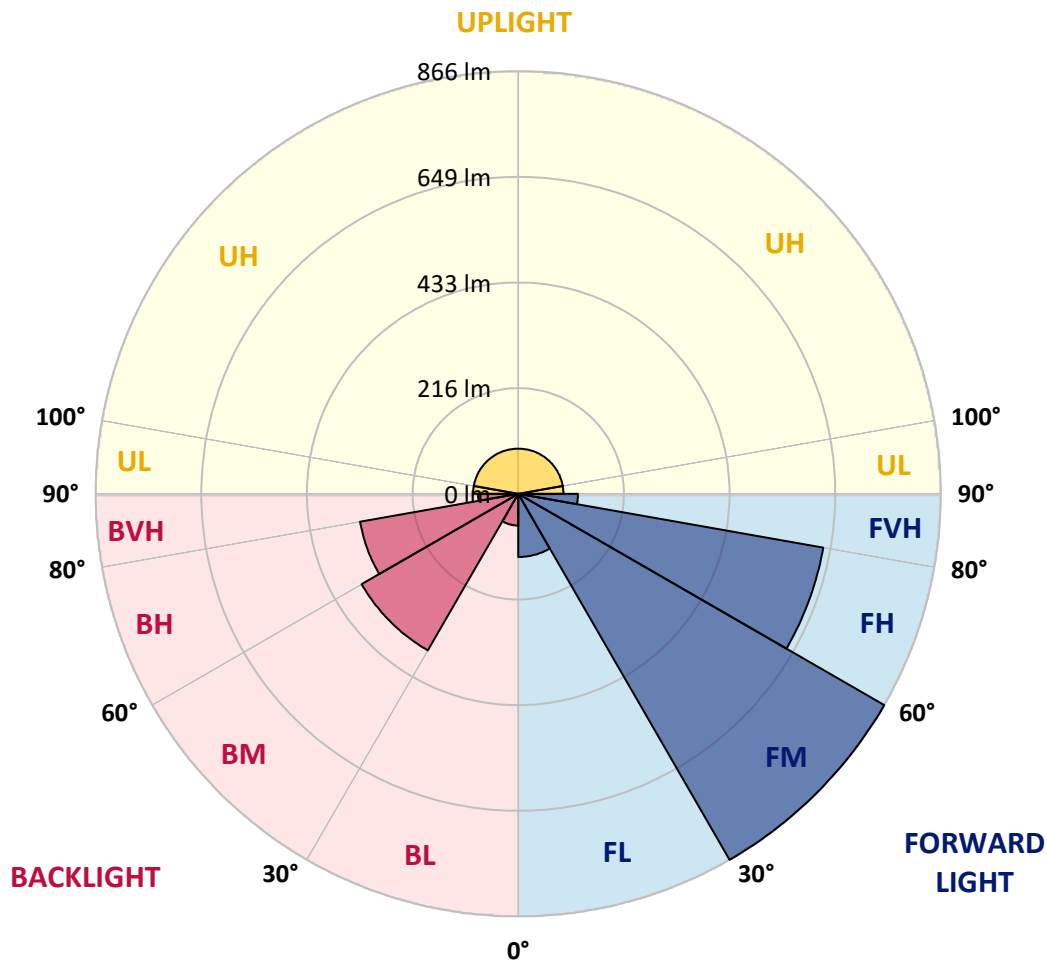


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.4	4.6			
FM (30°-60°)	865.8	31.1			
FH (60°-80°)	634.5	22.8			G0/660
FVH (80°-90°)	122.2	4.4			G2/225
BL (0°-30°)	65.0	2.3	B0/110		
BM (30°-60°)	370.5	13.3	B1/1000		
BH (60°-80°)	329.0	11.8	B1/500		G1/500
BVH (80°-90°)	82.4	3.0			G1/100
UL (90°-100°)	92.5	3.3		U3/500	
UH (100°-180°)	92.5	3.3		U3/500	

**BUG Rating: B1-U3-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	119	119	119	119	119	119	119	119	119	119	119
2.5°	133	132	132	131	130	129	127	125	123	123	121
5°	151	150	150	148	146	142	139	135	131	130	126
7.5°	171	172	171	168	165	160	154	148	141	140	134
10°	196	197	194	190	187	182	173	165	156	155	147
12.5°	226	224	224	219	213	204	194	185	174	172	163
15°	256	260	257	250	241	232	222	211	200	198	185
17.5°	291	296	292	284	275	263	254	240	227	224	209
20°	335	335	330	320	310	301	288	273	258	257	237
22.5°	379	377	372	361	349	339	324	310	295	290	273
25°	428	426	417	402	392	378	366	352	336	331	312
27.5°	478	476	465	451	435	421	409	398	378	378	356
30°	530	527	514	499	479	465	458	447	433	430	403
32.5°	579	580	567	546	525	511	508	505	490	489	460
35°	630	628	614	593	571	558	559	565	552	550	515
37.5°	676	676	661	635	611	601	615	631	622	616	580
40°	718	715	702	675	648	647	672	696	693	691	647
42.5°	749	745	733	705	681	686	727	773	772	768	721
45°	766	764	753	727	704	723	783	845	856	853	796
47.5°	769	768	759	736	719	750	838	921	938	939	874
50°	757	757	751	733	723	769	881	999	1023	1024	953
52.5°	728	728	728	716	714	775	917	1061	1108	1107	1035
55°	687	686	690	688	691	765	934	1119	1184	1181	1110
57.5°	636	633	643	647	656	741	937	1158	1245	1243	1171
60°	570	572	587	594	610	703	917	1172	1286	1286	1222
62.5°	504	510	528	541	561	654	878	1161	1302	1305	1249
65°	440	448	468	482	507	594	814	1118	1286	1291	1251
67.5°	382	384	406	422	448	530	741	1045	1233	1242	1219
70°	326	329	351	369	392	463	654	937	1144	1159	1148
72.5°	272	277	296	317	339	401	561	828	1024	1040	1046
75°	229	234	253	273	293	343	478	701	886	895	924
77.5°	190	196	212	232	250	292	396	578	745	752	777
80°	159	164	177	196	210	245	324	468	597	606	628
82.5°	132	134	148	164	179	207	265	372	468	478	508
85°	111	112	124	137	151	172	216	291	361	368	390
87.5°	90	92	104	116	127	145	175	229	278	281	296
90°	75	77	87	98	109	121	144	177	212	214	223
92.5°	63	64	73	84	94	104	118	140	165	167	171
95°	53	54	62	71	80	88	99	113	128	129	133
97.5°	46	46	53	61	69	75	82	92	101	100	101
100°	39	39	45	53	60	65	69	74	78	79	79
102.5°	34	34	39	47	53	57	60	61	63	63	62
105°	29	30	34	41	46	50	51	51	50	50	50
107.5°	26	26	30	36	41	44	45	43	41	40	40
110°	24	24	27	32	37	39	39	36	33	34	33

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	21	22	24	29	33	35	34	31	28	27	27
115°	20	20	22	26	30	31	30	27	23	23	23
117.5°	18	18	20	23	26	28	26	23	19	19	19
120°	17	17	18	21	24	25	23	20	16	16	17
122.5°	16	16	17	19	21	22	21	17	14	14	15
125°	15	15	15	17	19	20	18	15	12	12	13
127.5°	14	14	14	15	17	17	16	13	11	11	12
130°	13	13	13	14	15	15	13	11	10	10	10
132.5°	12	12	12	12	13	13	11	9	8	9	9
135°	11	11	11	11	11	11	9	7	7	7	8
137.5°	10	10	10	9	9	9	7	6	6	6	7
140°	9	9	9	8	7	7	5	5	5	5	6
142.5°	8	8	8	7	6	5	4	4	4	4	5
145°	7	7	6	6	4	3	3	3	3	4	4
147.5°	6	6	5	4	3	2	1	2	2	2	3
150°	4	4	4	3	2	1	1	1	2	2	2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	119	119	119	119	119	119	119	119	119	119	119
2.5°	120	119	117	115	113	112	111	110	110	110	110
5°	124	121	117	113	109	106	103	101	100	99	99
7.5°	131	127	120	114	108	102	98	95	93	92	92
10°	141	136	127	118	109	102	96	92	89	88	87
12.5°	157	151	138	125	114	104	97	91	88	87	87
15°	178	170	153	137	122	109	101	97	95	93	93
17.5°	200	191	172	152	134	119	110	106	102	101	101
20°	229	217	193	169	148	133	122	114	110	109	109
22.5°	260	245	218	188	165	146	133	123	119	117	117
25°	295	281	246	210	184	161	144	133	128	127	127
27.5°	337	320	277	236	202	174	155	142	137	136	136
30°	386	362	311	264	221	186	163	151	145	145	145
32.5°	432	407	348	292	238	196	171	159	153	153	153
35°	488	459	388	319	253	205	177	165	160	159	159
37.5°	550	513	428	344	267	211	182	170	165	164	164
40°	612	569	472	370	277	215	185	174	169	167	167
42.5°	678	629	514	394	286	217	186	177	172	169	169
45°	749	691	559	413	292	218	187	178	174	170	170
47.5°	825	757	600	431	294	217	187	179	174	170	169
50°	894	821	642	445	294	215	187	180	175	169	169
52.5°	967	884	678	454	292	212	186	179	175	168	168
55°	1039	944	711	459	287	208	184	179	174	167	166
57.5°	1097	999	738	459	280	203	181	178	173	166	165
60°	1144	1041	753	453	271	198	178	176	172	164	163
62.5°	1173	1066	757	442	261	192	175	173	170	163	161
65°	1178	1069	745	423	248	184	170	170	167	160	159
67.5°	1149	1040	715	397	234	176	164	165	163	157	155
70°	1087	984	665	367	218	168	157	158	156	151	150
72.5°	991	892	598	331	201	158	150	150	149	144	142
75°	872	786	521	293	184	147	141	141	140	135	133
77.5°	739	664	441	256	166	136	130	131	130	124	124
80°	597	545	368	220	149	124	119	120	118	112	110
82.5°	479	436	298	188	132	113	108	108	105	100	99
85°	366	335	241	158	117	101	97	96	92	87	86
87.5°	285	259	193	134	102	90	86	84	80	75	74
90°	215	199	154	112	90	80	76	73	69	64	62
92.5°	167	157	125	96	78	71	67	64	59	55	53
95°	129	123	103	82	69	62	59	56	52	47	45
97.5°	102	97	84	70	61	56	52	49	44	40	39
100°	80	77	70	60	54	49	46	43	38	34	34
102.5°	63	62	58	52	48	44	41	38	34	30	29
105°	51	51	48	45	42	39	37	34	29	26	25
107.5°	41	42	41	40	37	35	33	29	25	22	22
110°	34	34	35	34	33	31	29	26	22	20	20

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	28	29	30	30	29	28	26	23	19	17	17
115°	24	24	26	26	26	25	23	20	17	15	16
117.5°	20	21	22	23	23	22	20	17	14	14	14
120°	18	18	19	20	20	20	18	15	13	12	12
122.5°	16	16	17	18	18	17	16	13	11	11	11
125°	14	14	15	16	16	15	13	11	10	10	10
127.5°	12	13	13	14	14	13	12	10	8	9	9
130°	11	11	12	12	12	11	10	8	8	8	8
132.5°	10	10	10	10	10	10	8	7	7	7	7
135°	8	9	9	9	9	8	7	6	6	6	7
137.5°	7	7	8	7	7	7	5	5	5	6	6
140°	6	6	6	6	6	5	4	4	5	5	5
142.5°	5	5	5	5	4	4	3	3	4	4	5
145°	4	4	4	4	3	3	2	3	3	4	4
147.5°	3	3	3	3	2	2	2	2	3	3	3
150°	2	2	2	2	1	1	1	2	2	3	3
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

(END OF REPORT)