

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: P694623

Luminaire Tested: **LXF.LXT-PA16-20-750-U-T2R-FL**

Issue Date: 7/5/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P694623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-062-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/5/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA16-20-750-U-T2R-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 5000K, 420mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY  
OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2649 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type III - Short  
BUG Rating: B1 - U3 - G2

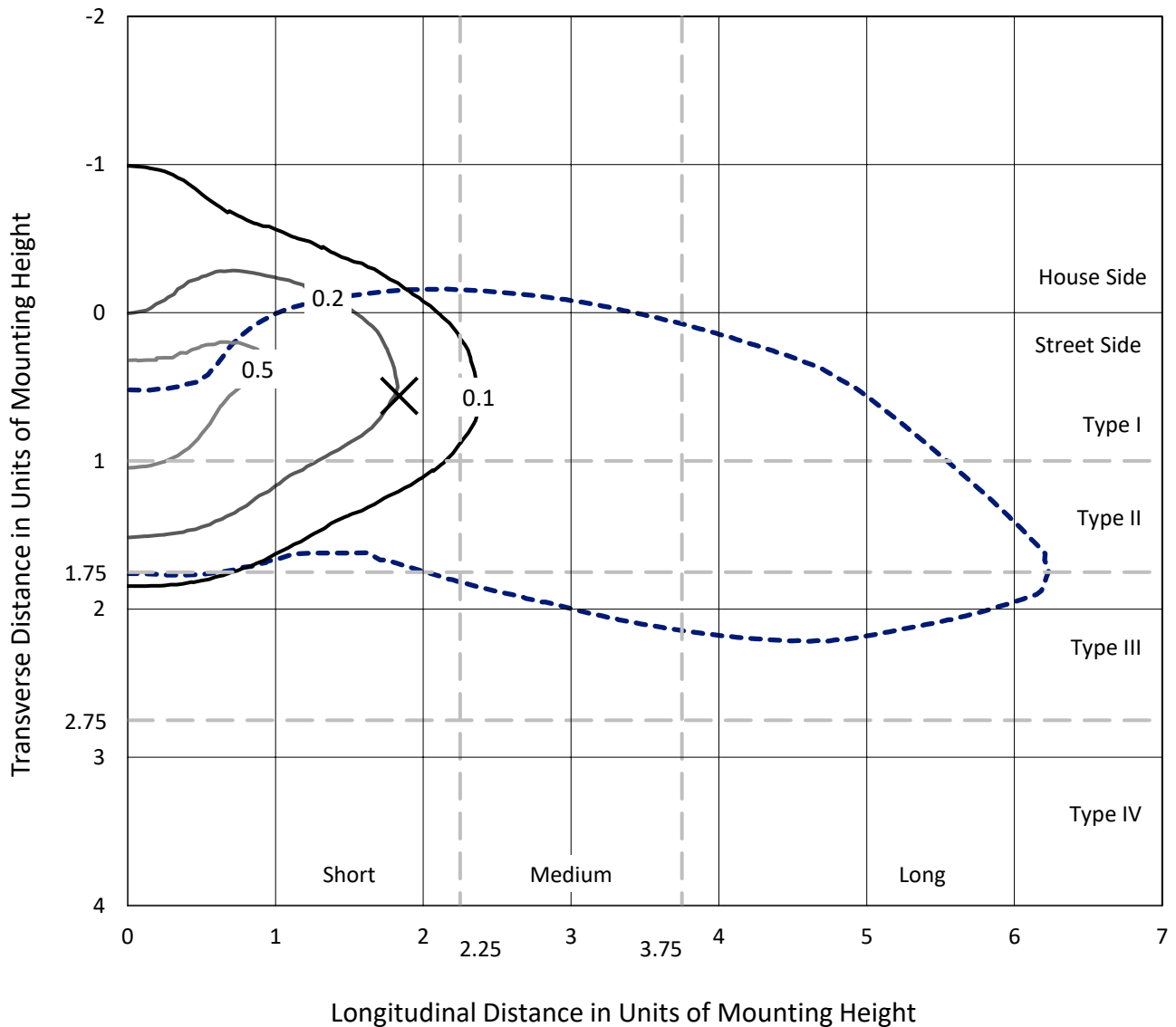
Input Watts (W): 21.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

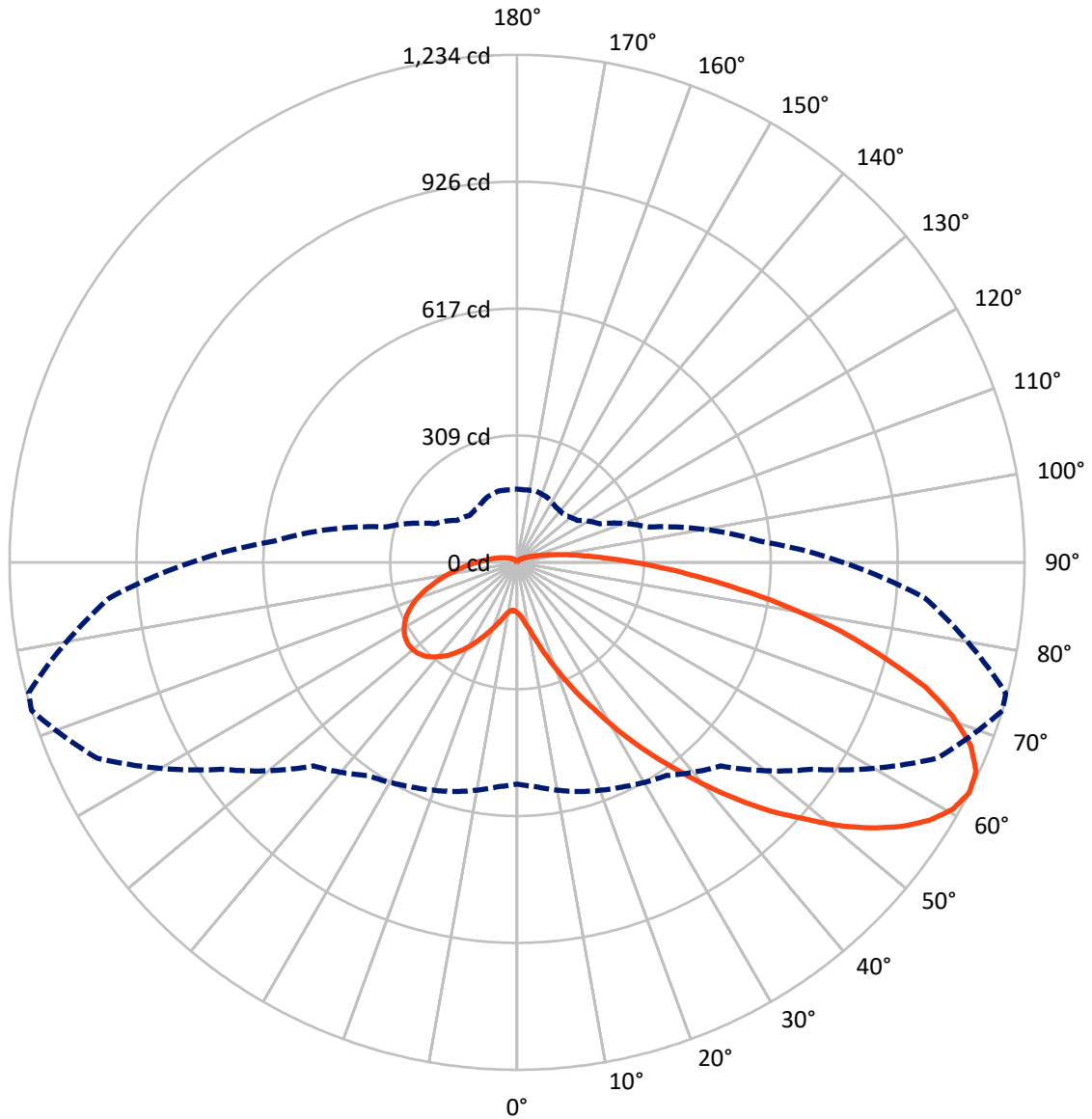
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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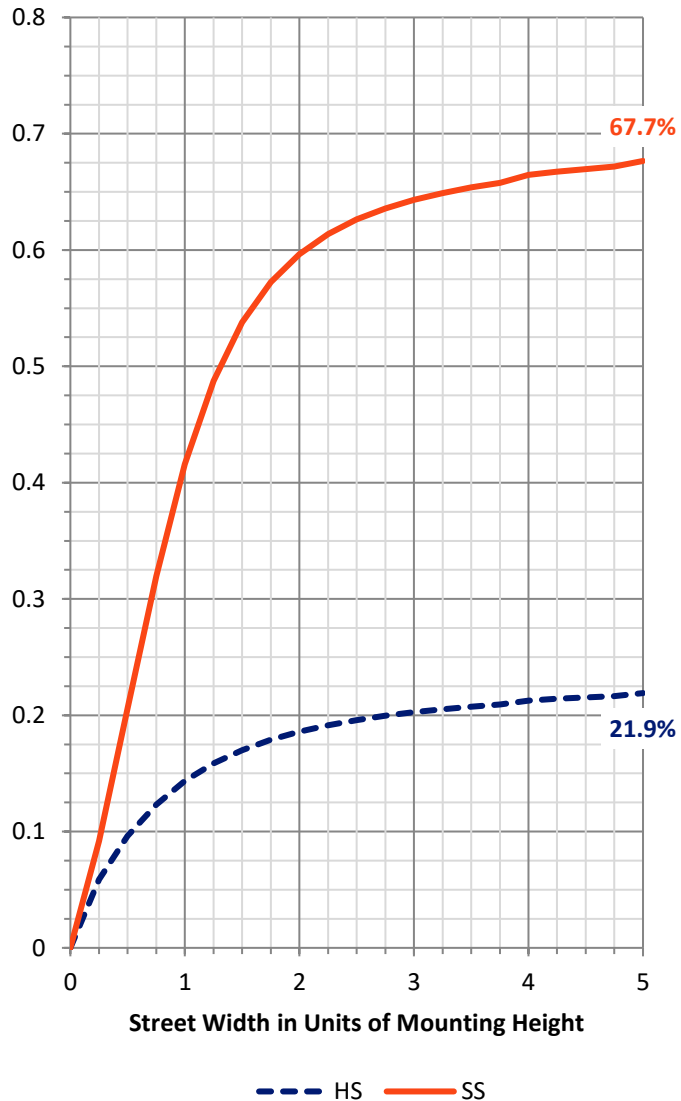
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	612.7	80.1	692.9
	% Fixture	23.1	3.0	26.2
<b>Street Side</b>	Lumens	1844.1	112.0	1956.1
	% Fixture	69.6	4.2	73.8
<b>Total</b>	Lumens	2456.9	192.1	2649.0
	% Fixture	92.7	7.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.8	0.5
10°-20°	54.0	2.0
20°-30°	139.3	5.3
30°-40°	272.7	10.3
40°-50°	416.6	15.7
50°-60°	507.4	19.2
60°-70°	490.7	18.5
70°-80°	362.4	13.7
80°-90°	200.9	7.6
90°-100°	95.4	3.6
100°-110°	47.0	1.8
110°-120°	25.3	1.0
120°-130°	14.1	0.5
130°-140°	7.3	0.3
140°-150°	2.9	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2456.9	92.7
0°-180°	2649.0	100.0

**Coefficient of Utilization**



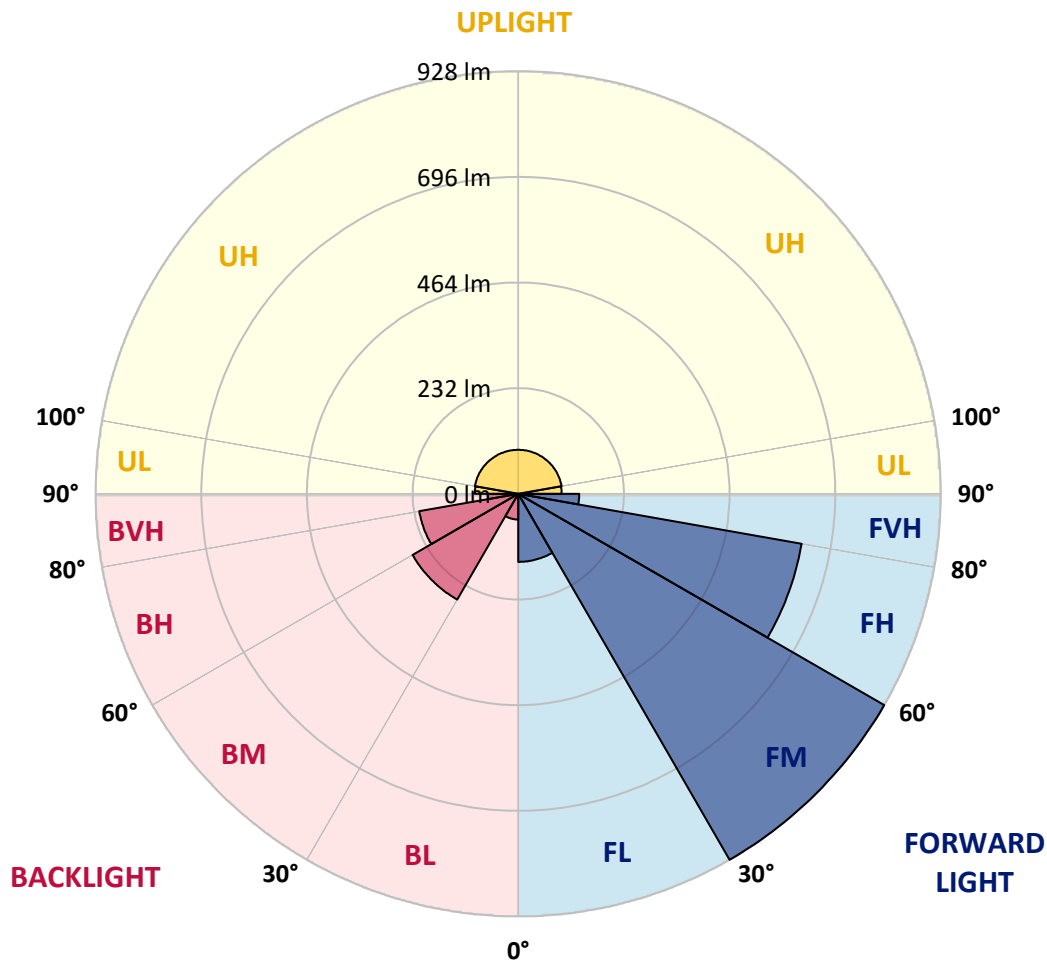
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.6	5.6			
FM (30°-60°)	928.4	35.0			
FH (60°-80°)	632.3	23.9			G0/660
FVH (80°-90°)	133.8	5.1			G2/225
BL (0°-30°)	56.5	2.1	B0/110		
BM (30°-60°)	268.3	10.1	B1/1000		
BH (60°-80°)	220.8	8.3	B1/500		G1/500
BVH (80°-90°)	67.1	2.5			G1/100
UL (90°-100°)	95.4	3.6		U3/500	
UH (100°-180°)	96.6	3.6		U3/500	

**BUG Rating: B1-U3-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	123	123	123	123	123	123	123	123	123	123	123
2.5°	139	138	139	138	136	134	132	129	128	127	124
5°	162	163	162	158	156	152	148	142	137	136	130
7.5°	190	189	188	185	180	173	166	158	151	149	139
10°	223	220	221	214	208	199	190	178	166	164	151
12.5°	261	260	258	249	240	230	216	201	188	184	168
15°	307	303	301	291	279	266	249	231	215	212	189
17.5°	358	353	347	334	322	305	285	265	246	242	213
20°	411	409	402	386	368	350	328	304	280	275	242
22.5°	475	473	461	441	419	398	373	347	320	312	273
25°	545	539	525	500	475	446	421	393	364	354	309
27.5°	616	611	592	564	530	498	470	443	409	404	346
30°	686	686	661	629	584	548	521	496	465	458	391
32.5°	756	754	733	690	640	598	572	551	523	510	440
35°	821	820	792	746	691	647	625	611	583	572	489
37.5°	881	877	846	799	732	689	676	675	647	633	541
40°	922	919	892	839	770	728	727	738	718	703	595
42.5°	947	943	921	869	800	761	773	801	790	773	650
45°	953	950	932	884	820	788	814	864	862	846	704
47.5°	938	938	926	886	828	806	854	925	929	921	761
50°	909	907	904	872	825	816	885	987	1005	993	820
52.5°	860	859	862	844	810	815	907	1040	1073	1062	870
55°	795	793	806	801	781	803	918	1083	1134	1124	919
57.5°	717	713	738	747	741	780	918	1113	1183	1174	957
60°	627	630	656	681	688	745	903	1128	1218	1212	982
62.5°	539	548	577	603	633	700	877	1127	1234	1230	995
65°	455	465	494	530	567	647	837	1103	1226	1224	989
67.5°	377	384	414	456	500	588	781	1058	1190	1191	961
70°	310	314	346	388	433	522	714	987	1124	1127	908
72.5°	255	262	286	325	373	462	643	901	1039	1038	837
75°	208	212	237	272	314	398	566	798	919	927	745
77.5°	168	171	196	227	268	342	487	691	804	802	648
80°	136	140	161	189	226	291	412	579	674	676	539
82.5°	109	113	132	157	193	244	346	485	549	549	445
85°	87	91	109	131	160	207	284	388	438	441	360
87.5°	71	73	89	110	135	174	234	307	347	343	283
90°	57	59	73	91	114	146	191	248	269	268	221
92.5°	47	48	61	78	97	123	157	193	209	208	175
95°	39	40	52	66	83	104	128	155	165	163	137
97.5°	33	33	44	57	72	88	107	124	129	128	110
100°	28	28	37	50	63	76	89	99	101	102	87
102.5°	24	25	33	44	54	65	74	81	81	80	69
105°	22	22	28	38	48	56	63	67	65	63	55
107.5°	19	19	25	34	42	49	54	55	52	51	46
110°	17	18	22	30	38	43	46	46	43	42	38

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
112.5°	16	16	20	27	33	38	40	39	36	35	32
115°	15	15	18	24	30	34	35	33	30	29	27
117.5°	14	14	16	21	27	30	31	28	25	25	24
120°	13	13	15	19	24	27	27	24	22	21	21
122.5°	13	13	14	17	21	23	24	21	19	18	18
125°	12	12	13	15	19	21	20	18	16	16	16
127.5°	12	12	12	14	16	18	18	16	14	14	15
130°	11	11	11	12	14	16	15	13	12	12	13
132.5°	11	11	11	11	12	14	13	11	11	11	11
135°	10	10	10	10	11	11	11	10	9	10	10
137.5°	9	9	9	9	9	9	9	8	8	8	9
140°	8	8	8	8	7	7	7	6	7	7	8
142.5°	8	8	7	7	6	6	5	5	6	6	6
145°	7	7	6	5	4	4	4	4	4	5	5
147.5°	5	5	5	4	3	2	2	3	3	3	4
150°	4	4	4	3	2	1	1	2	2	2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	123	123	123	123	123	123	123	123	123	123	123
2.5°	123	122	119	117	115	114	112	111	111	110	111
5°	127	124	118	113	108	104	101	99	98	97	96
7.5°	134	129	120	112	104	98	93	90	88	86	86
10°	144	137	124	113	103	95	88	84	82	80	80
12.5°	159	150	133	116	104	94	87	82	80	79	78
15°	178	167	145	125	108	95	88	86	84	83	83
17.5°	200	185	158	134	115	101	94	91	90	89	88
20°	224	207	173	144	123	111	101	98	97	96	96
22.5°	253	230	189	155	133	119	110	105	104	104	103
25°	283	258	207	167	143	128	118	113	112	113	113
27.5°	318	286	226	180	153	135	126	121	121	123	123
30°	356	315	245	193	162	142	133	130	131	132	133
32.5°	393	346	263	206	169	148	140	139	140	142	142
35°	436	381	281	217	175	153	146	147	149	151	152
37.5°	479	412	299	225	180	158	152	154	156	160	160
40°	520	444	313	232	184	161	156	160	164	166	166
42.5°	563	476	328	237	187	164	160	166	170	171	171
45°	607	503	339	241	189	166	163	169	174	175	175
47.5°	646	528	347	242	189	167	165	172	177	177	177
50°	687	553	352	243	190	168	166	174	179	178	179
52.5°	722	573	354	241	189	167	167	176	181	179	179
55°	753	588	353	238	187	167	167	176	181	179	179
57.5°	776	597	349	234	185	166	167	176	181	179	179
60°	790	598	341	229	182	164	165	175	180	178	178
62.5°	792	593	331	222	178	162	164	174	179	177	178
65°	781	578	318	214	174	159	162	172	177	176	176
67.5°	753	552	300	204	168	155	159	168	175	173	173
70°	708	516	281	193	160	150	154	164	170	169	169
72.5°	649	473	258	180	152	144	149	158	163	163	162
75°	578	425	233	166	143	137	143	150	154	153	152
77.5°	502	373	209	152	133	129	134	142	144	143	141
80°	425	320	185	137	122	119	124	130	132	129	128
82.5°	355	267	161	123	111	109	114	118	118	116	113
85°	287	225	141	109	100	99	103	105	104	101	98
87.5°	231	184	121	97	89	88	91	92	90	86	84
90°	187	151	104	86	79	79	80	80	77	72	70
92.5°	149	124	90	75	71	69	70	69	65	62	59
95°	120	102	78	67	63	61	62	60	55	51	49
97.5°	97	84	67	59	56	54	54	51	48	43	41
100°	78	69	58	52	49	48	47	45	41	36	35
102.5°	63	58	50	46	44	43	42	39	35	30	30
105°	52	49	44	41	39	38	37	34	30	26	26
107.5°	43	41	38	36	35	34	33	30	26	22	23
110°	37	35	33	32	32	31	29	27	23	20	20

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	31	30	29	29	28	27	26	23	20	18	18
115°	27	26	26	26	25	25	23	21	17	16	16
117.5°	23	23	23	23	23	22	21	18	15	14	14
120°	21	21	20	20	20	20	18	16	13	13	13
122.5°	18	18	18	18	18	17	16	14	12	12	12
125°	16	16	16	17	16	16	14	12	10	11	11
127.5°	15	15	15	14	14	14	12	10	9	10	10
130°	13	13	13	13	13	12	11	9	8	9	9
132.5°	12	12	12	11	11	10	9	8	7	8	8
135°	10	10	10	10	9	9	8	6	7	7	7
137.5°	9	9	9	8	8	7	6	5	6	6	6
140°	8	8	8	7	6	6	5	5	5	6	6
142.5°	6	6	6	6	5	4	4	4	5	5	5
145°	5	5	5	4	4	3	3	3	4	4	4
147.5°	4	4	4	3	3	2	2	3	4	4	4
150°	3	3	3	2	2	1	2	2	3	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)