

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: P182351

Luminaire Tested: **LXF-E02-LED-E-U-SYM-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P182351  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34329)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF-E02-LED-E-U-SYM-BK  
Description: LEXINGTON LED OUTDOOR LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - SYMMETRIC  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4938.5 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G3

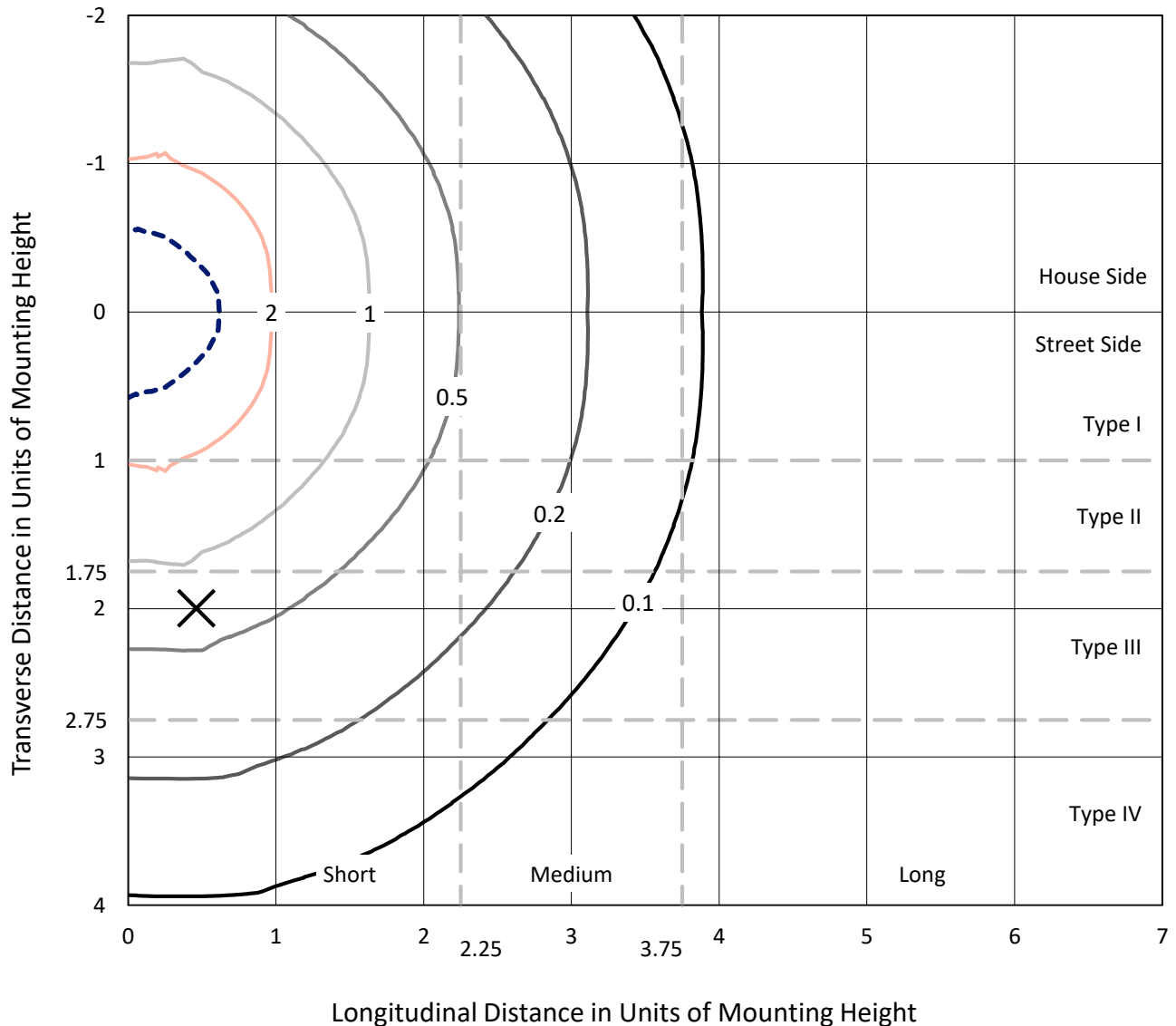
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

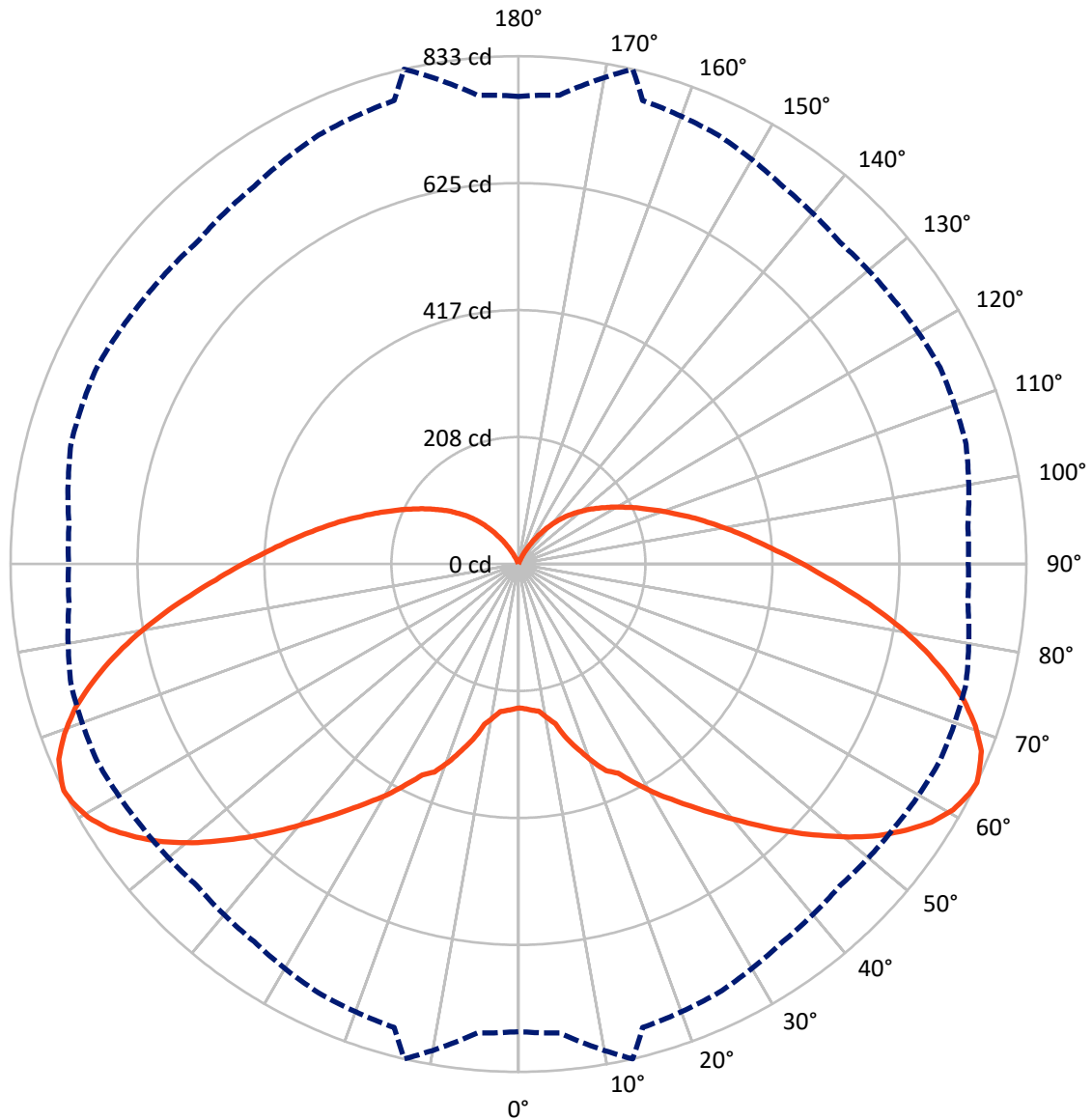
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 13-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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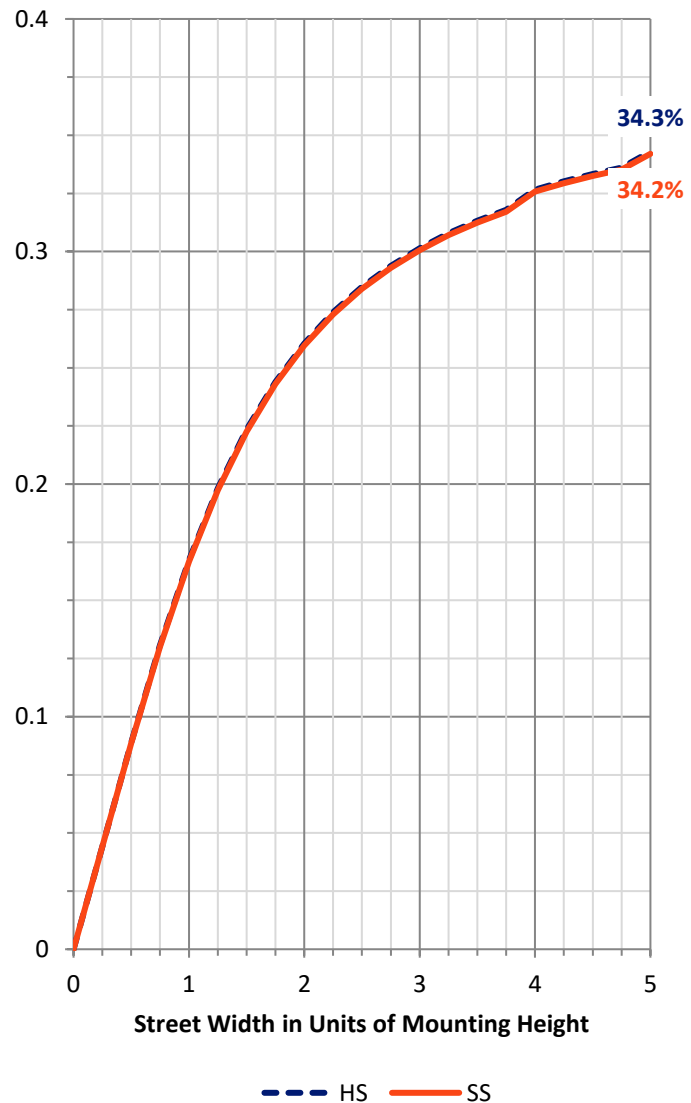
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1858.8	610.5	2469.3
	% Fixture	37.6	12.4	50.0
<b>Street Side</b>	Lumens	1858.8	610.5	2469.3
	% Fixture	37.6	12.4	50.0
<b>Total</b>	Lumens	3717.6	1220.9	4938.5
	% Fixture	75.3	24.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.8	0.5
10°-20°	82.0	1.7
20°-30°	169.3	3.4
30°-40°	293.9	6.0
40°-50°	454.4	9.2
50°-60°	629.4	12.7
60°-70°	752.3	15.2
70°-80°	728.1	14.7
80°-90°	584.4	11.8
90°-100°	435.2	8.8
100°-110°	317.5	6.4
110°-120°	221.8	4.5
120°-130°	141.4	2.9
130°-140°	74.9	1.5
140°-150°	26.7	0.5
150°-160°	3.4	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3717.6	75.3
0°-180°	4938.5	100.0



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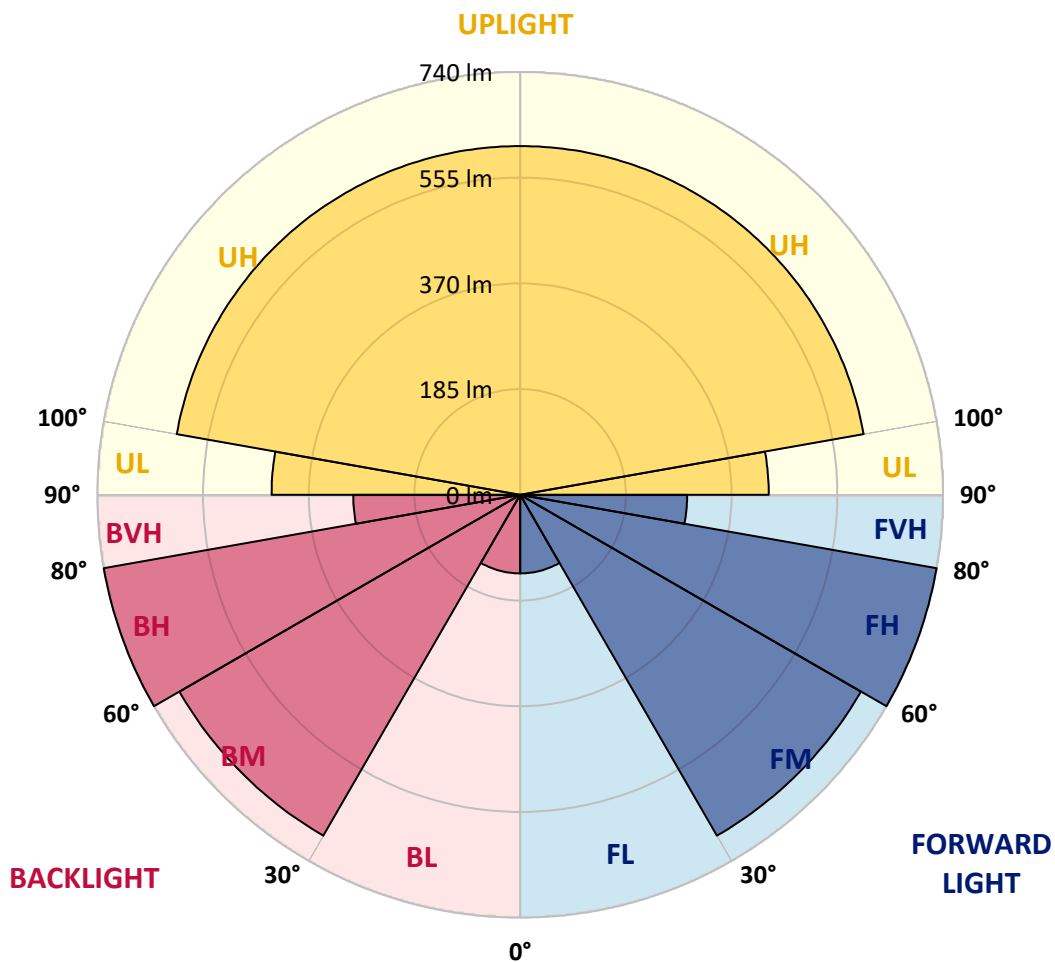
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.6	2.8			
FM	(30°-60°)	688.9	13.9			
FH	(60°-80°)	740.2	15.0			G1/1800
FVH	(80°-90°)	292.2	5.9			G3/500
BL	(0°-30°)	137.6	2.8	B1/500		
BM	(30°-60°)	688.9	13.9	B1/1000		
BH	(60°-80°)	740.2	15.0	B2/1000		G1/1800
BVH	(80°-90°)	292.2	5.9			G3/500
UL	(90°-100°)	435.2	8.8		U3/500	
UH	(100°-180°)	610.5	12.4		U4/1000	

**BUG Rating: B2-U4-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	13°	15°	25°	35°	45°	55°	65°	75°	85°
0°	236	236	236	236	236	236	236	236	236	236	236
2.5°	236	236	238	236	237	238	237	237	238	238	238
5°	239	238	241	238	240	244	245	250	251	252	249
7.5°	241	241	244	240	246	253	255	253	258	262	256
10°	249	248	256	251	253	258	263	268	266	272	265
12.5°	259	260	269	262	270	272	271	273	271	275	274
15°	280	279	297	287	286	285	282	279	281	283	281
17.5°	299	300	320	307	313	307	294	290	292	295	298
20°	321	320	345	330	337	326	315	308	311	314	316
22.5°	341	342	368	349	351	347	338	334	330	332	333
25°	364	364	380	362	366	366	366	360	350	351	353
27.5°	389	389	406	387	388	393	392	387	375	373	376
30°	412	412	434	412	417	421	419	413	403	396	397
32.5°	436	436	460	437	444	449	448	443	430	418	418
35°	462	462	488	463	474	479	478	472	459	442	443
37.5°	491	490	519	492	503	507	506	500	489	469	469
40°	519	519	552	523	534	538	536	530	519	500	495
42.5°	550	549	589	556	565	568	564	559	550	532	524
45°	581	581	627	590	598	597	596	590	581	563	552
47.5°	615	614	665	624	631	627	624	619	611	594	580
50°	645	645	704	657	661	657	651	647	641	627	610
52.5°	678	677	740	689	691	683	675	674	670	657	639
55°	706	706	771	719	718	706	699	698	698	687	668
57.5°	731	732	799	746	741	727	718	719	723	715	694
60°	751	753	819	767	760	743	733	737	744	738	717
62.5°	764	768	830	782	772	753	743	749	757	754	734
64°	767	772	833	787	776	756	746	753	763	760	740
65°	767	773	830	788	778	756	746	754	765	762	741
67.5°	761	768	819	783	773	752	742	750	761	758	738
70°	743	752	795	768	759	739	730	737	748	746	725
72.5°	715	725	764	743	737	720	710	717	727	723	701
75°	678	690	725	711	709	694	686	692	698	689	665
77.5°	639	652	682	674	675	664	658	660	663	646	621
80°	598	607	636	631	637	630	624	624	620	603	573
82.5°	554	563	588	589	600	595	591	587	579	557	525
85°	508	516	541	544	557	558	555	550	538	513	478
87.5°	466	473	497	500	518	524	521	517	500	471	437
90°	429	434	459	461	481	491	490	481	464	433	399
92.5°	396	398	423	425	447	459	460	451	432	398	367
95°	365	368	392	392	417	431	432	423	401	369	339
97.5°	339	340	364	364	389	403	406	396	375	342	313
100°	314	314	337	337	362	378	381	370	348	315	289
102.5°	292	291	313	312	338	354	357	347	325	292	268
105°	272	271	290	289	315	332	336	325	301	269	250
107.5°	254	253	268	267	294	310	314	303	279	248	232



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	13°	15°	25°	35°	45°	55°	65°	75°	85°
110°	237	235	249	247	273	289	293	282	259	229	218
112.5°	221	220	230	227	254	270	273	263	239	211	203
115°	207	206	214	210	233	249	254	243	219	195	190
117.5°	193	193	198	194	214	231	234	223	201	180	178
120°	180	179	184	178	195	211	214	203	183	167	167
122.5°	167	167	170	164	175	192	195	185	165	154	155
125°	155	154	157	149	156	171	175	166	149	142	144
127.5°	142	141	145	136	139	151	155	147	134	131	134
130°	129	128	132	123	121	130	135	128	119	120	124
132.5°	116	115	120	110	105	110	114	110	105	108	113
135°	103	103	108	97	90	91	93	92	91	98	102
137.5°	91	90	95	85	76	73	74	74	77	86	91
140°	77	77	81	72	62	56	56	57	64	74	79
142.5°	64	64	68	59	50	41	40	43	52	61	66
145°	52	51	54	47	38	28	25	30	40	49	54
147.5°	39	39	42	35	28	18	15	19	29	37	41
150°	28	27	30	24	18	11	6	11	19	25	29
152.5°	18	17	19	15	11	5	2	6	11	16	19
155°	9	9	10	8	5	2	1	2	5	8	10
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°
0°	236
2.5°	238
5°	249
7.5°	256
10°	260
12.5°	273
15°	282
17.5°	297
20°	316
22.5°	334
25°	353
27.5°	376
30°	398
32.5°	419
35°	444
37.5°	469
40°	497
42.5°	522
45°	551
47.5°	581
50°	610
52.5°	640
55°	669
57.5°	695
60°	716
62.5°	732
64°	738
65°	738
67.5°	732
70°	718
72.5°	692
75°	654
77.5°	610
80°	561
82.5°	516
85°	469
87.5°	429
90°	393
92.5°	362
95°	336
97.5°	311
100°	288
102.5°	268
105°	251
107.5°	233



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**CANDELA DISTRIBUTION (continued):**

	90°
110°	218
112.5°	203
115°	191
117.5°	179
120°	167
122.5°	156
125°	145
127.5°	135
130°	125
132.5°	114
135°	103
137.5°	91
140°	79
142.5°	66
145°	54
147.5°	41
150°	29
152.5°	19
155°	10
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)