

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: P416767

Luminaire Tested: **LXF.LXT-PA1-80-740-U-T2U-TL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-740-U-T2U-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8640 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 83
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

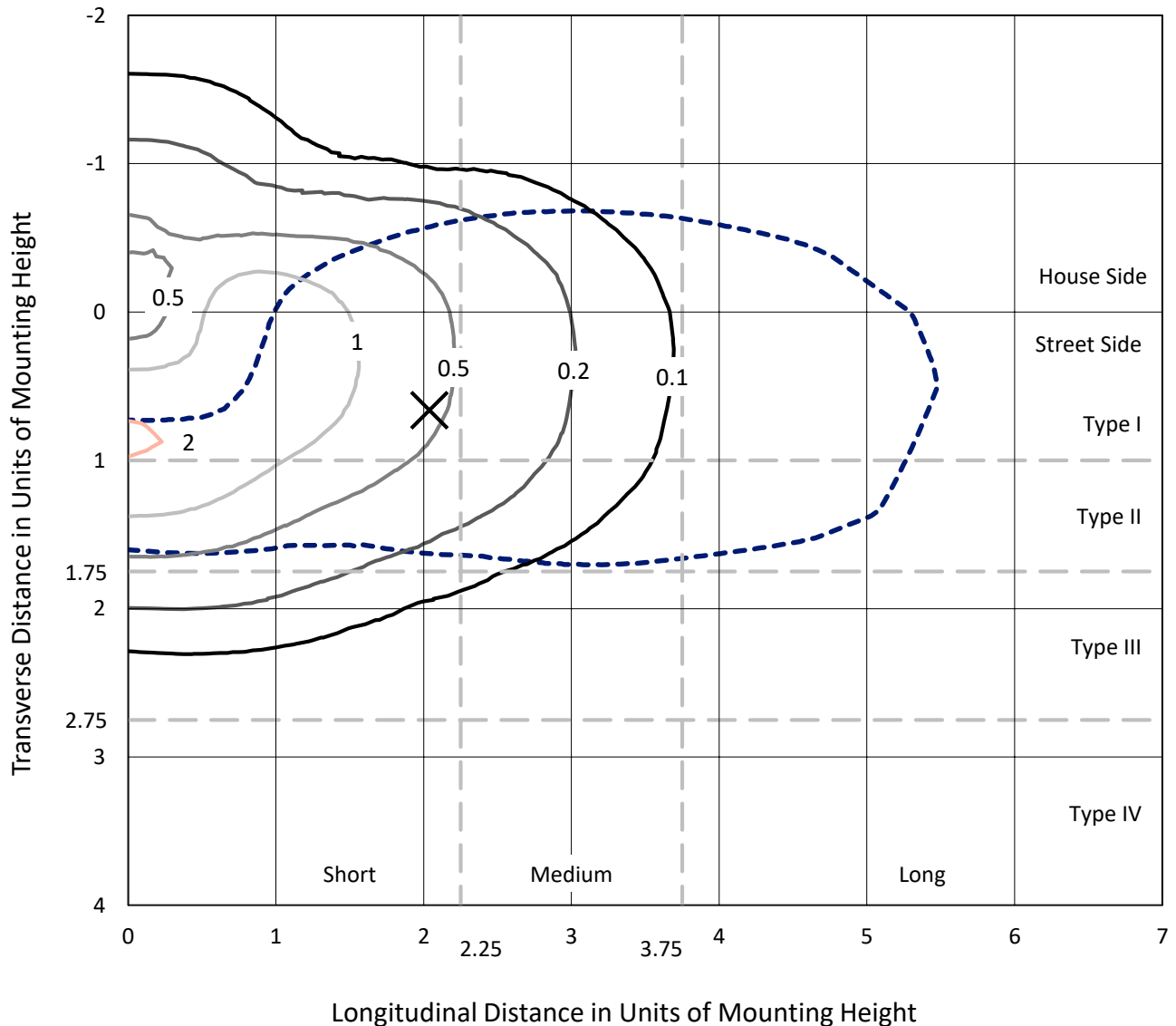


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

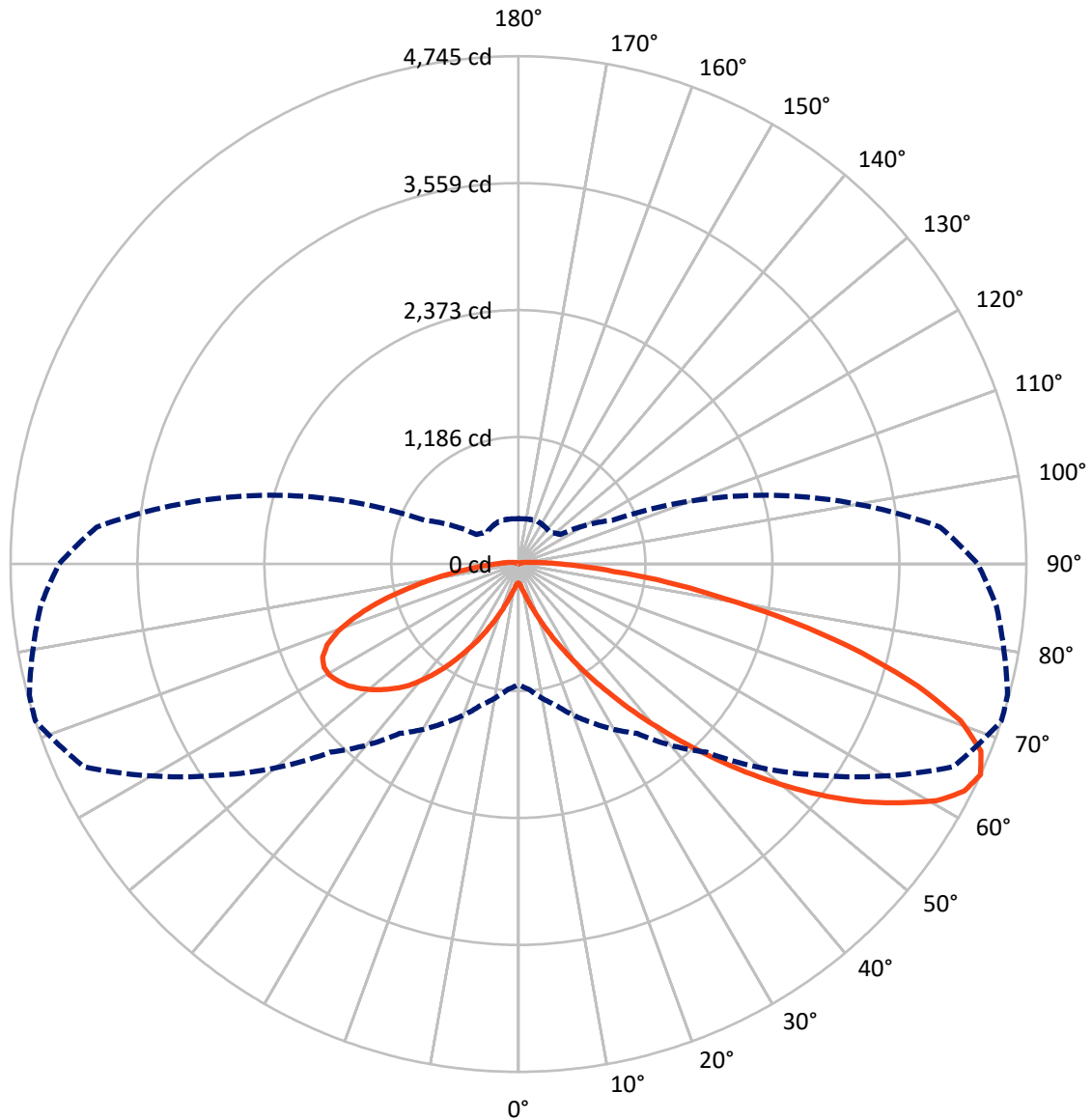


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2436.0	122.6	2558.6
	% Fixture	28.2	1.4	29.6
Street Side	Lumens	5961.9	119.5	6081.4
	% Fixture	69.0	1.4	70.4
Total	Lumens	8397.9	242.1	8640.0
	% Fixture	97.2	2.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	0.2
10°-20°	104.5	1.2
20°-30°	331.1	3.8
30°-40°	793.4	9.2
40°-50°	1464.8	17.0
50°-60°	1995.9	23.1
60°-70°	1946.0	22.5
70°-80°	1270.9	14.7
80°-90°	470.8	5.4
90°-100°	130.8	1.5
100°-110°	54.9	0.6
110°-120°	27.6	0.3
120°-130°	15.6	0.2
130°-140°	8.8	0.1
140°-150°	3.6	0.0
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8397.9	97.2
0°-180°	8640.0	100.0



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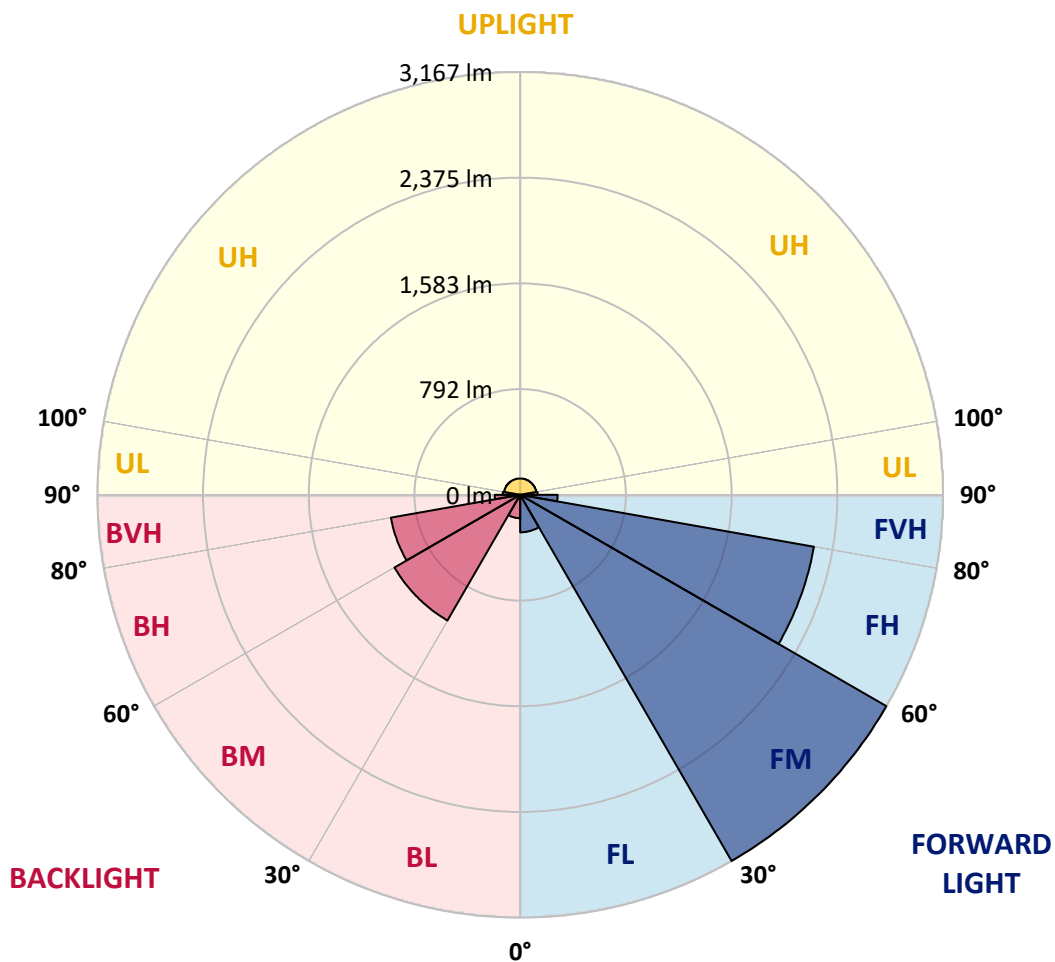
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.7	3.2			
FM (30°-60°)	3166.9	36.7			
FH (60°-80°)	2234.0	25.9			G2/5000
FVH (80°-90°)	280.3	3.2			G3/500
BL (0°-30°)	175.4	2.0	B1/500		
BM (30°-60°)	1087.2	12.6	B2/2500		
BH (60°-80°)	982.9	11.4	B2/1000		G2/1000
BVH (80°-90°)	190.5	2.2			G2/225
UL (90°-100°)	130.8	1.5		U3/500	
UH (100°-180°)	122.6	1.4		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	180	180	180	180	180	180	180	180	180	180	180
2.5°	199	198	196	195	195	193	191	188	186	185	183
5°	225	223	221	219	217	214	209	206	202	201	197
7.5°	262	260	254	252	249	245	239	233	229	226	220
10°	311	309	305	300	294	286	276	270	260	262	253
12.5°	378	373	368	360	348	339	325	319	308	308	297
15°	459	458	448	431	420	401	389	376	369	369	360
17.5°	564	557	549	526	501	478	462	453	445	443	431
20°	694	684	672	631	601	573	550	543	537	536	526
22.5°	859	838	816	776	728	679	663	647	648	650	627
25°	1042	1036	997	940	877	823	779	773	779	775	766
27.5°	1277	1257	1208	1135	1035	972	925	921	922	927	912
30°	1551	1541	1479	1357	1228	1144	1093	1086	1098	1099	1076
32.5°	1874	1854	1759	1623	1447	1340	1282	1280	1293	1296	1278
35°	2201	2191	2097	1902	1709	1547	1488	1492	1501	1519	1498
37.5°	2578	2551	2430	2224	1980	1786	1723	1737	1751	1751	1722
40°	2934	2924	2797	2538	2246	2066	1997	2005	2004	2005	1967
42.5°	3264	3230	3118	2843	2542	2359	2276	2289	2301	2310	2214
45°	3487	3458	3359	3088	2822	2649	2595	2595	2609	2605	2510
47.5°	3566	3562	3488	3282	3038	2904	2907	2918	2939	2920	2784
50°	3529	3513	3500	3385	3217	3153	3213	3269	3271	3237	3064
52.5°	3297	3299	3365	3344	3267	3332	3515	3614	3605	3572	3364
55°	2944	2960	3075	3163	3210	3390	3739	3944	3924	3878	3667
57.5°	2474	2526	2680	2872	3040	3336	3861	4230	4209	4209	3969
60°	1974	2016	2243	2477	2742	3154	3873	4440	4491	4459	4183
62.5°	1531	1549	1784	2079	2363	2848	3735	4540	4675	4648	4375
65°	1127	1178	1368	1638	1932	2487	3440	4481	4745	4731	4481
67.5°	838	861	1020	1270	1561	2038	3010	4223	4661	4673	4465
70°	628	634	758	964	1212	1608	2509	3811	4382	4436	4322
72.5°	475	486	589	751	935	1238	1983	3251	3906	4040	3997
75°	372	385	456	581	723	937	1501	2589	3309	3482	3530
77.5°	294	308	368	464	564	723	1103	1937	2643	2816	2956
80°	231	241	294	365	444	534	773	1408	1941	2157	2285
82.5°	176	187	228	288	348	408	552	958	1408	1506	1724
85°	128	138	172	221	268	316	404	639	897	1014	1124
87.5°	94	98	128	164	206	239	291	408	570	628	720
90°	66	70	94	121	156	187	214	270	355	407	424
92.5°	49	52	70	91	120	145	162	191	231	253	267
95°	37	40	55	72	93	114	127	138	161	167	179
97.5°	30	32	45	59	75	94	101	107	115	121	126
100°	26	27	38	50	64	76	82	85	90	92	94
102.5°	23	23	33	43	55	64	69	69	70	71	70
105°	20	21	29	38	47	55	59	57	56	55	52
107.5°	19	19	26	34	42	48	51	47	45	43	40
110°	17	18	23	30	37	42	44	40	36	34	31



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
112.5°	16	17	21	27	33	38	38	34	29	27	25
115°	16	16	19	24	30	34	34	29	24	22	21
117.5°	16	16	18	22	27	30	30	25	20	18	18
120°	15	15	17	20	25	27	26	22	17	16	16
122.5°	15	15	16	19	23	25	24	19	15	13	14
125°	16	15	16	18	21	22	21	16	13	12	13
127.5°	16	16	15	17	19	20	19	14	11	11	12
130°	16	16	15	16	17	18	16	12	10	10	11
132.5°	16	16	15	15	16	16	14	10	9	9	10
135°	16	16	14	14	14	14	12	9	8	8	9
137.5°	15	15	14	13	13	12	10	7	6	7	8
140°	14	14	13	11	11	10	8	6	5	6	6
142.5°	13	13	12	10	9	8	7	4	4	4	5
145°	12	12	11	8	7	6	5	3	3	3	4
147.5°	10	10	9	7	5	5	3	2	3	3	3
150°	8	8	7	5	4	3	1	2	2	2	3
152.5°	7	7	5	4	2	1	1	1	2	2	2
155°	5	5	4	2	1	0	1	1	1	1	1
157.5°	3	3	2	1	0	0	0	1	1	1	1
160°	1	1	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°	180	180	180	180	180	180	180	180	180	180	180
2.5°	181	181	180	179	178	177	175	174	174	173	173
5°	195	194	191	188	184	182	179	177	176	175	175
7.5°	217	215	209	204	199	195	190	187	186	183	184
10°	248	245	238	229	220	214	207	203	201	199	197
12.5°	293	287	275	263	250	238	231	228	230	229	230
15°	355	344	326	308	285	270	268	267	267	268	270
17.5°	425	413	390	357	330	315	306	305	310	311	310
20°	517	505	469	424	385	361	349	349	356	358	362
22.5°	616	609	560	498	446	407	390	392	402	405	407
25°	754	726	666	581	506	454	431	432	443	451	454
27.5°	906	874	786	675	566	493	467	468	481	491	493
30°	1069	1037	922	768	622	528	493	494	509	520	522
32.5°	1243	1217	1056	868	671	552	510	511	524	534	536
35°	1463	1404	1215	957	712	567	518	517	530	540	542
37.5°	1680	1617	1366	1040	736	571	516	516	526	534	535
40°	1916	1811	1525	1105	745	565	510	509	517	521	522
42.5°	2170	2041	1681	1157	741	552	499	500	503	503	502
45°	2399	2268	1815	1191	727	535	486	487	488	480	480
47.5°	2668	2509	1941	1199	699	518	476	478	473	462	460
50°	2923	2746	2068	1196	670	500	466	468	459	444	441
52.5°	3207	2980	2188	1181	635	484	459	461	451	433	430
55°	3487	3228	2298	1155	605	467	452	457	444	426	425
57.5°	3754	3474	2389	1117	573	455	447	453	441	423	422
60°	3992	3683	2462	1080	538	443	442	450	439	424	423
62.5°	4159	3871	2495	1030	510	430	436	444	436	424	424
65°	4292	3955	2482	964	480	416	428	436	431	423	424
67.5°	4267	3953	2397	885	452	401	414	425	421	418	417
70°	4113	3766	2234	799	423	382	397	408	407	406	406
72.5°	3796	3442	1990	700	393	362	375	385	387	386	383
75°	3382	2996	1707	607	362	338	352	358	361	359	359
77.5°	2775	2498	1357	513	329	311	321	326	330	325	322
80°	2205	1900	1044	419	293	281	286	288	292	287	281
82.5°	1548	1354	757	342	257	247	250	249	251	244	236
85°	1034	910	521	275	220	211	211	208	206	199	193
87.5°	649	576	358	217	185	178	174	168	166	161	154
90°	400	368	250	174	154	148	144	135	134	126	121
92.5°	262	240	185	141	129	123	118	110	109	103	100
95°	173	168	141	118	109	104	99	92	90	84	80
97.5°	127	127	116	100	93	88	85	79	75	69	67
100°	96	97	93	86	80	75	72	67	64	58	57
102.5°	74	76	77	73	69	65	62	58	54	48	47
105°	57	59	63	62	60	57	54	50	45	40	40
107.5°	44	46	52	53	52	49	47	43	39	34	34
110°	34	37	43	45	45	43	41	37	32	29	29



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	28	31	36	39	39	38	35	31	27	25	25
115°	23	26	31	34	34	33	31	27	23	22	22
117.5°	20	22	26	29	30	29	27	23	20	20	20
120°	18	20	23	25	26	25	23	20	17	18	18
122.5°	16	17	20	23	23	23	21	17	15	16	16
125°	14	16	18	20	21	20	18	15	13	14	15
127.5°	13	14	16	18	18	18	16	13	12	13	13
130°	12	13	14	16	16	16	14	11	11	12	12
132.5°	11	12	13	14	14	14	12	10	9	11	11
135°	10	10	11	12	12	12	10	8	8	10	10
137.5°	8	9	10	10	10	10	8	7	7	8	8
140°	7	7	8	8	8	8	7	5	6	7	7
142.5°	6	6	7	7	7	6	5	4	5	6	6
145°	4	5	5	5	5	4	3	3	4	5	5
147.5°	4	4	4	4	4	3	2	2	3	4	4
150°	3	3	4	4	3	2	1	1	2	3	3
152.5°	2	2	3	3	2	1	0	0	1	1	1
155°	2	2	2	2	2	1	0	0	0	0	0
157.5°	1	1	2	2	1	1	0	0	0	0	0
160°	0	1	1	1	1	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)