

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: P416797

Luminaire Tested: **LXF.LXT-PA1-80-750-U-SL3-FL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2002-662-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-750-U-SL3-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8318 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G4

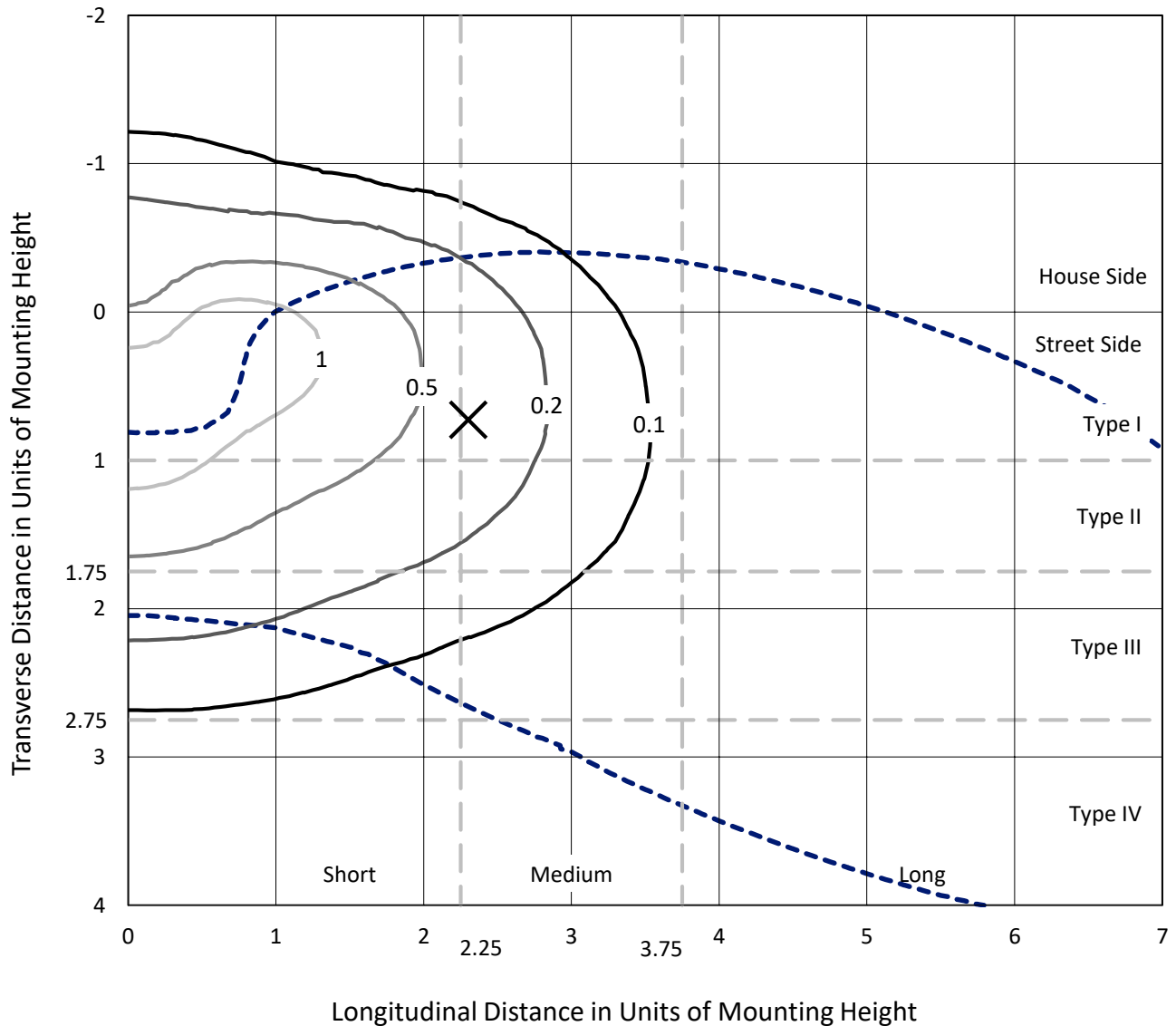
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

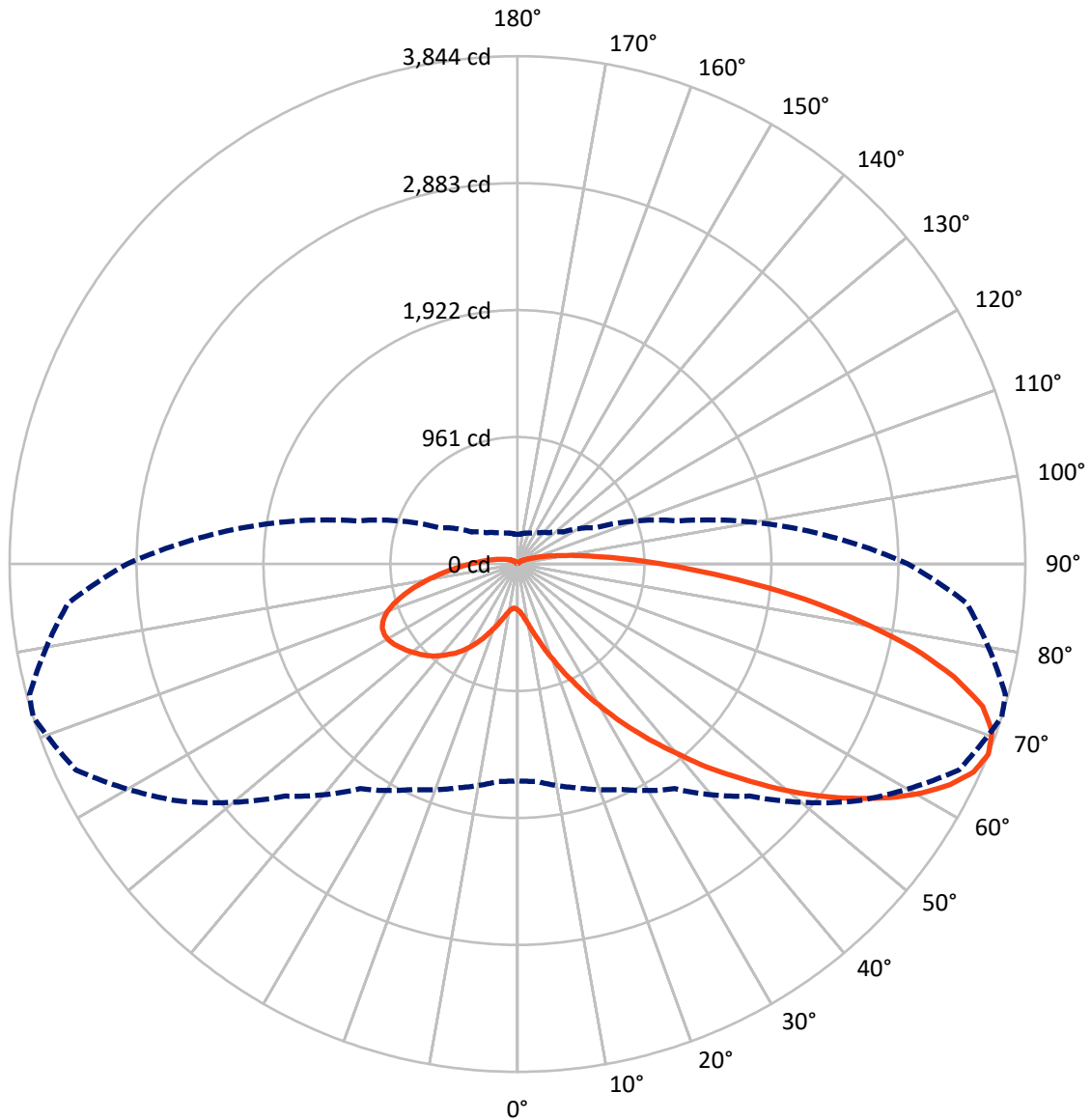
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72.5-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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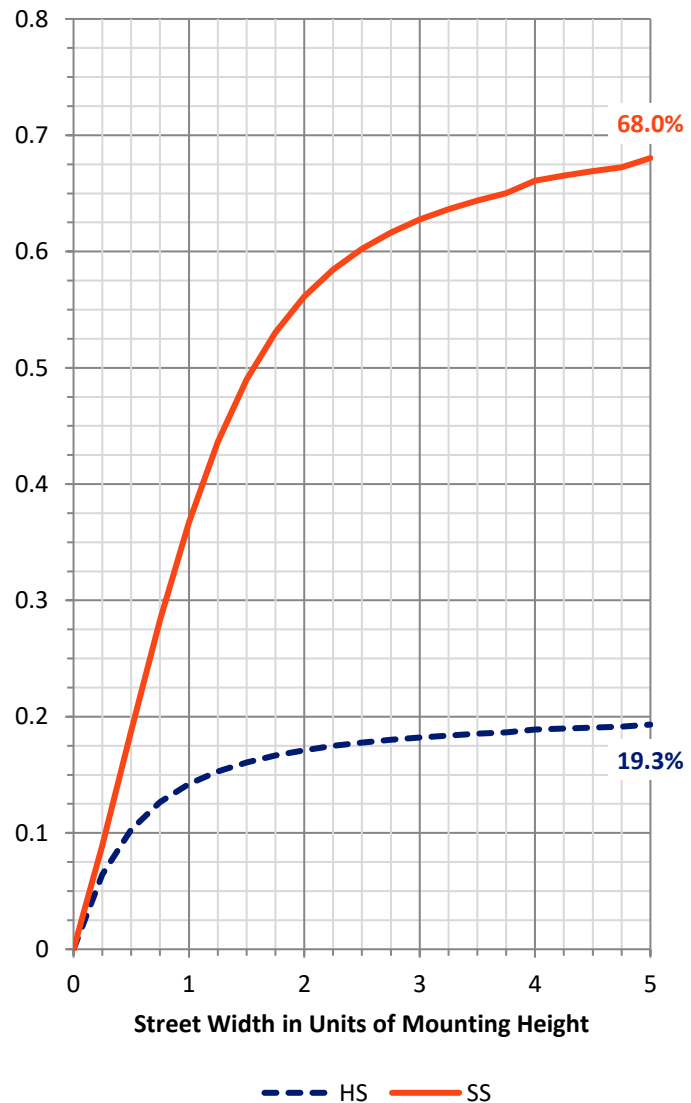
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.1	240.3	1929.4
	% Fixture	20.3	2.9	23.2
Street Side	Lumens	5922.8	465.8	6388.6
	% Fixture	71.2	5.6	76.8
Total	Lumens	7611.9	706.1	8318.0
	% Fixture	91.5	8.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	0.4
10°-20°	141.9	1.7
20°-30°	342.7	4.1
30°-40°	653.2	7.9
40°-50°	1051.4	12.6
50°-60°	1454.7	17.5
60°-70°	1671.4	20.1
70°-80°	1434.7	17.2
80°-90°	826.0	9.9
90°-100°	373.3	4.5
100°-110°	171.6	2.1
110°-120°	86.2	1.0
120°-130°	44.7	0.5
130°-140°	21.3	0.3
140°-150°	7.3	0.1
150°-160°	1.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	7611.9	91.5
0°-180°	8318.0	100.0



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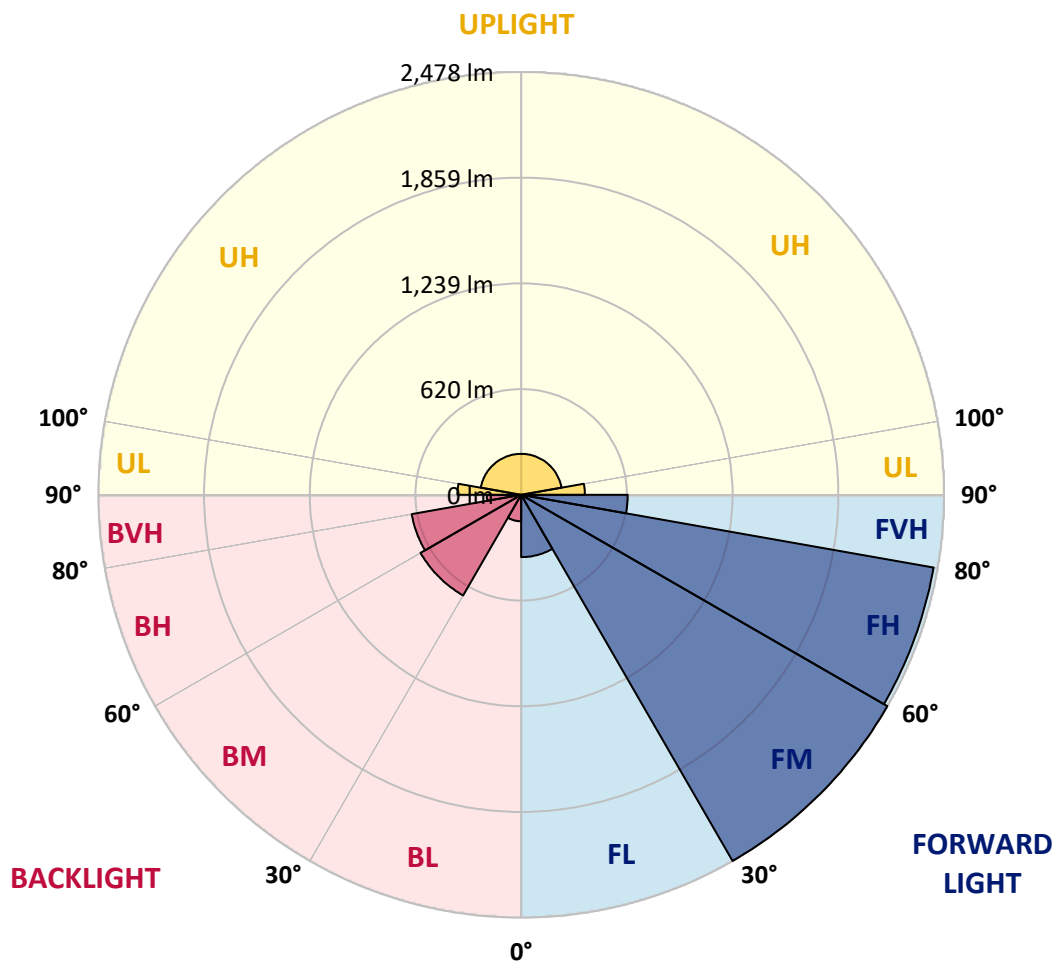
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.3	4.4			
FM (30°-60°)	2478.3	29.8			
FH (60°-80°)	2454.8	29.5			G2/5000
FVH (80°-90°)	624.5	7.5			G4/750
BL (0°-30°)	155.1	1.9	B1/500		
BM (30°-60°)	681.1	8.2	B1/1000		
BH (60°-80°)	651.3	7.8	B2/1000		G2/1000
BVH (80°-90°)	201.6	2.4			G2/225
UL (90°-100°)	373.3	4.5		U3/500	
UH (100°-180°)	240.3	2.9		U3/500	

BUG Rating: B2-U3-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72.5°	75°	85°
0°	347	347	347	347	347	347	347	347	347	347	347
2.5°	389	388	389	386	383	377	373	365	361	359	351
5°	444	443	442	438	428	421	409	395	386	382	369
7.5°	504	502	500	491	484	472	454	436	421	418	394
10°	572	570	566	559	546	529	513	487	468	459	433
12.5°	642	646	641	627	612	596	573	548	528	521	481
15°	727	730	725	709	693	669	651	625	598	594	550
17.5°	821	820	810	795	781	762	736	712	682	675	621
20°	923	919	910	885	872	850	834	801	772	762	708
22.5°	1025	1023	1015	992	976	957	933	903	883	863	803
25°	1153	1141	1131	1090	1075	1057	1036	1011	992	981	912
27.5°	1281	1272	1249	1219	1190	1161	1152	1130	1124	1115	1037
30°	1408	1404	1379	1341	1299	1271	1266	1268	1259	1248	1165
32.5°	1552	1543	1515	1464	1420	1387	1387	1401	1409	1398	1310
35°	1693	1685	1650	1587	1538	1498	1514	1547	1566	1566	1457
37.5°	1842	1824	1788	1722	1656	1627	1645	1702	1730	1730	1620
40°	1972	1971	1922	1843	1778	1735	1790	1866	1903	1900	1784
42.5°	2102	2101	2054	1967	1885	1863	1932	2039	2099	2099	1950
45°	2219	2211	2171	2075	1999	1989	2091	2227	2289	2299	2130
47.5°	2305	2298	2263	2170	2098	2116	2239	2412	2496	2495	2314
50°	2363	2356	2326	2246	2184	2229	2400	2608	2713	2721	2496
52.5°	2380	2376	2360	2294	2254	2331	2551	2808	2927	2934	2695
55°	2351	2351	2350	2310	2294	2422	2707	3003	3132	3145	2891
57.5°	2283	2286	2304	2291	2315	2495	2839	3179	3335	3343	3066
60°	2180	2174	2214	2238	2303	2541	2956	3356	3519	3522	3220
62.5°	2024	2027	2085	2148	2260	2560	3059	3511	3676	3683	3340
65°	1840	1847	1926	2032	2186	2540	3118	3630	3795	3786	3409
67.5°	1641	1651	1754	1883	2076	2484	3128	3687	3844	3824	3415
70°	1423	1449	1552	1720	1934	2377	3070	3677	3811	3792	3326
72.5°	1225	1244	1357	1532	1775	2222	2947	3562	3682	3644	3140
75°	1028	1057	1164	1351	1603	2030	2738	3340	3414	3373	2863
77.5°	860	886	992	1172	1414	1829	2464	3003	3064	3022	2513
80°	701	730	833	1010	1237	1593	2150	2609	2632	2566	2127
82.5°	586	601	697	853	1062	1374	1828	2189	2190	2111	1728
85°	479	488	576	717	896	1161	1501	1763	1743	1700	1332
87.5°	388	397	476	603	754	969	1225	1388	1341	1307	1034
90°	318	328	393	503	633	800	975	1073	1031	1005	797
92.5°	260	270	327	421	536	655	775	821	792	762	601
95°	220	222	273	352	443	529	607	634	594	583	465
97.5°	181	187	227	297	370	441	481	495	459	435	356
100°	154	157	192	248	308	359	390	383	351	337	270
102.5°	132	135	163	215	262	299	314	303	273	264	212
105°	116	117	140	182	222	253	259	242	213	201	167
107.5°	103	104	122	158	192	213	215	196	168	159	134
110°	92	94	107	137	166	182	180	160	134	126	110



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72.5°	75°	85°
112.5°	83	85	95	120	144	158	153	129	107	102	91
115°	76	78	86	106	127	137	129	107	88	82	76
117.5°	71	72	78	94	110	118	109	89	72	68	65
120°	66	67	72	83	97	101	92	73	60	58	57
122.5°	62	62	66	74	84	87	78	61	51	49	50
125°	58	58	60	66	73	75	65	51	43	42	44
127.5°	54	54	55	59	63	63	54	42	37	36	39
130°	50	50	50	52	54	53	44	35	32	32	34
132.5°	46	46	46	46	45	43	36	28	28	28	30
135°	41	41	41	40	38	35	28	23	23	24	26
137.5°	37	37	36	34	31	27	22	18	20	20	22
140°	32	32	31	28	24	20	16	15	16	17	19
142.5°	27	27	26	23	19	14	11	11	13	13	15
145°	22	22	21	18	13	9	7	8	10	10	11
147.5°	17	17	16	13	9	6	4	6	7	7	8
150°	12	12	11	9	6	3	2	3	4	5	5
152.5°	8	8	7	6	3	1	2	3	3	3	4
155°	5	4	4	3	1	0	1	2	2	2	3
157.5°	2	2	2	2	1	0	1	1	1	2	2
160°	0	1	1	2	1	0	1	1	1	1	1
162.5°	0	1	1	2	1	0	1	1	1	1	1
165°	0	1	1	2	1	0	1	1	1	1	1
167.5°	0	1	1	2	1	0	1	1	1	1	1
170°	0	1	1	2	1	0	1	1	1	1	1
172.5°	0	1	1	2	1	0	1	1	1	1	1
175°	0	1	1	2	1	1	1	1	1	1	1
177.5°	0	1	1	2	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	347	347	347	347	347	347	347	347	347	347	347
2.5°	349	345	339	333	327	323	319	317	314	311	311
5°	361	353	339	325	312	301	290	284	280	276	277
7.5°	383	371	348	325	304	286	271	259	251	246	247
10°	414	401	366	333	303	277	256	239	229	224	224
12.5°	463	441	395	348	308	273	246	226	212	206	205
15°	522	491	435	377	320	273	238	224	215	211	210
17.5°	592	558	481	404	336	279	249	232	222	218	217
20°	668	628	531	438	352	297	260	239	228	224	224
22.5°	761	708	585	468	372	312	271	245	235	231	230
25°	857	797	649	500	394	324	279	251	241	237	238
27.5°	970	893	712	532	413	331	283	256	246	243	244
30°	1088	991	768	565	426	336	286	260	249	247	247
32.5°	1213	1103	826	594	434	337	286	262	251	250	251
35°	1341	1211	882	617	438	336	285	264	251	251	251
37.5°	1483	1317	929	633	439	333	284	263	251	251	252
40°	1629	1430	981	646	438	331	283	263	251	251	252
42.5°	1774	1535	1030	654	436	329	282	263	251	249	250
45°	1931	1657	1077	659	434	328	282	262	251	247	248
47.5°	2077	1770	1115	665	433	328	283	262	250	246	246
50°	2242	1887	1154	667	431	328	283	262	249	243	244
52.5°	2405	2005	1192	671	431	329	284	262	248	240	240
55°	2561	2110	1226	674	431	331	287	262	247	237	237
57.5°	2704	2218	1260	675	431	333	287	263	246	234	234
60°	2831	2311	1284	676	430	335	289	262	245	231	231
62.5°	2921	2382	1296	673	430	335	290	262	244	230	229
65°	2972	2407	1289	664	428	335	289	261	242	228	227
67.5°	2955	2380	1259	650	423	334	289	259	242	227	225
70°	2863	2299	1202	629	416	330	285	256	240	226	224
72.5°	2683	2136	1119	596	404	324	280	251	236	223	220
75°	2433	1942	1018	562	389	316	274	246	231	219	216
77.5°	2112	1683	906	518	370	305	266	238	224	213	209
80°	1779	1418	785	472	350	291	254	228	215	205	200
82.5°	1440	1165	672	428	327	275	242	217	205	194	189
85°	1136	921	563	382	303	259	228	204	193	181	176
87.5°	884	731	471	340	277	241	213	191	178	167	163
90°	689	576	394	300	254	223	197	177	164	153	148
92.5°	525	456	330	265	231	205	182	163	150	138	133
95°	411	362	279	233	208	186	167	149	135	122	119
97.5°	319	290	235	204	188	168	151	135	121	108	105
100°	252	231	199	181	167	151	136	122	107	93	92
102.5°	199	190	169	159	148	136	123	108	93	80	79
105°	163	155	145	139	132	121	109	96	81	69	69
107.5°	132	128	123	122	117	108	98	85	70	60	60
110°	108	107	107	107	104	97	87	74	59	52	52



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	91	91	92	94	92	85	76	64	51	45	45
115°	77	78	81	82	81	76	67	55	43	39	40
117.5°	67	67	71	73	72	67	58	47	37	35	35
120°	58	60	63	64	63	58	51	40	32	31	31
122.5°	51	52	55	57	55	51	43	34	27	27	28
125°	45	46	48	50	48	43	37	28	24	24	24
127.5°	40	41	43	43	41	37	31	24	20	21	21
130°	35	36	37	37	36	32	26	20	18	19	19
132.5°	31	32	32	32	30	27	22	17	16	17	17
135°	27	27	28	27	25	22	17	14	14	15	15
137.5°	23	24	24	22	20	17	14	12	12	13	13
140°	19	20	19	18	16	14	11	9	10	11	11
142.5°	16	16	16	14	12	10	8	8	9	9	10
145°	12	12	12	11	9	7	6	6	7	8	8
147.5°	9	9	9	8	6	5	4	5	6	7	6
150°	6	6	6	5	4	3	3	4	5	5	5
152.5°	4	4	4	4	3	1	2	3	4	4	4
155°	3	3	3	3	2	0	1	2	3	3	3
157.5°	2	2	2	2	1	0	0	2	2	2	2
160°	1	2	2	1	1	0	0	1	1	1	1
162.5°	1	1	1	1	1	0	0	1	1	1	0
165°	1	1	1	1	1	0	0	1	1	0	0
167.5°	1	1	1	1	1	0	0	1	1	0	0
170°	1	1	1	1	1	0	0	1	1	0	0
172.5°	1	1	1	1	1	0	0	1	1	0	0
175°	1	1	1	1	1	0	0	1	1	0	0
177.5°	1	1	1	1	1	0	0	1	1	0	0
180°	1	1	1	1	1	1	1	1	1	1	1

(END OF REPORT)