

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: P182311

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182311
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26824)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF-E02-LED-E-U-ASYM-BK
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5289.8 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

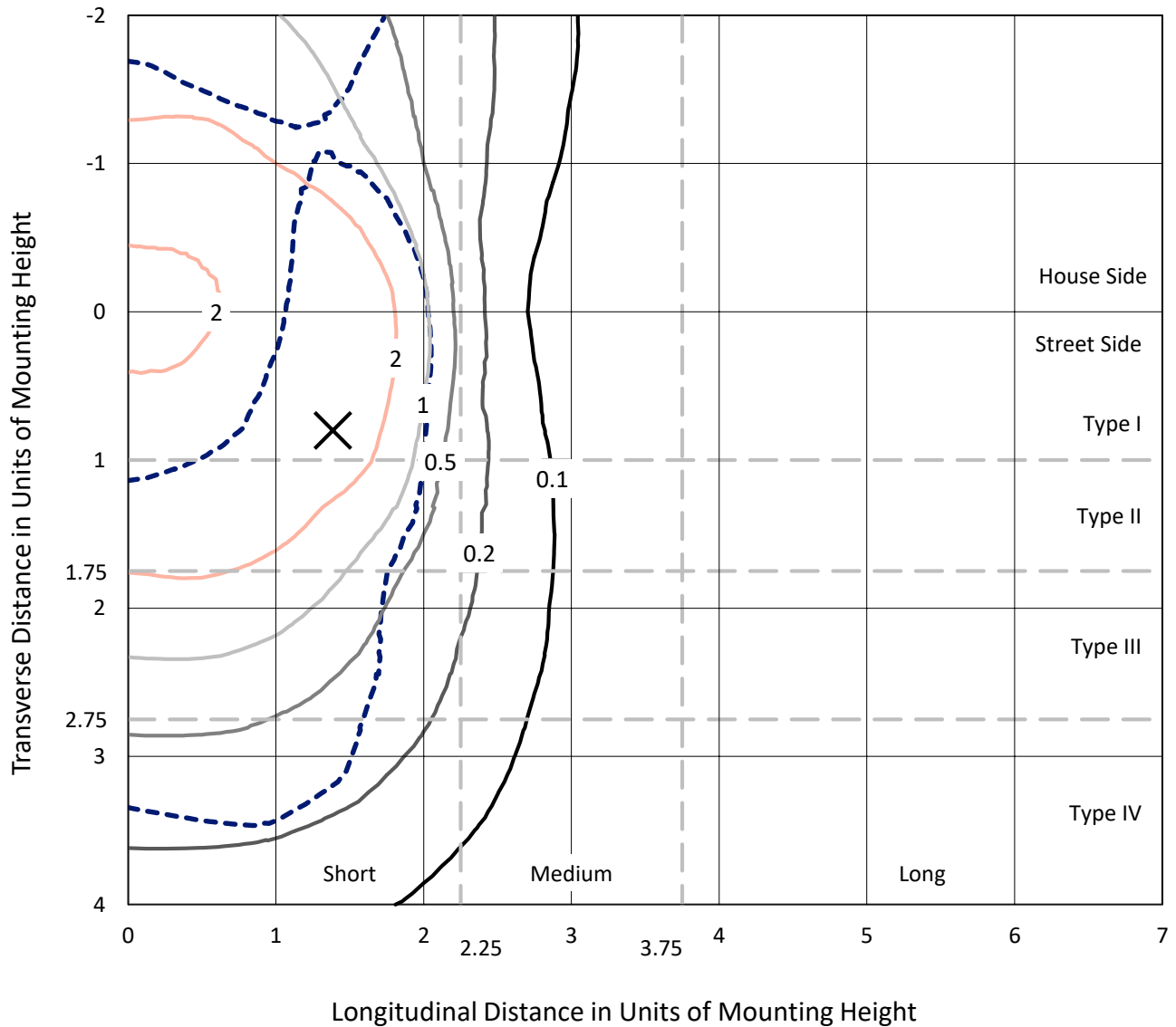
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

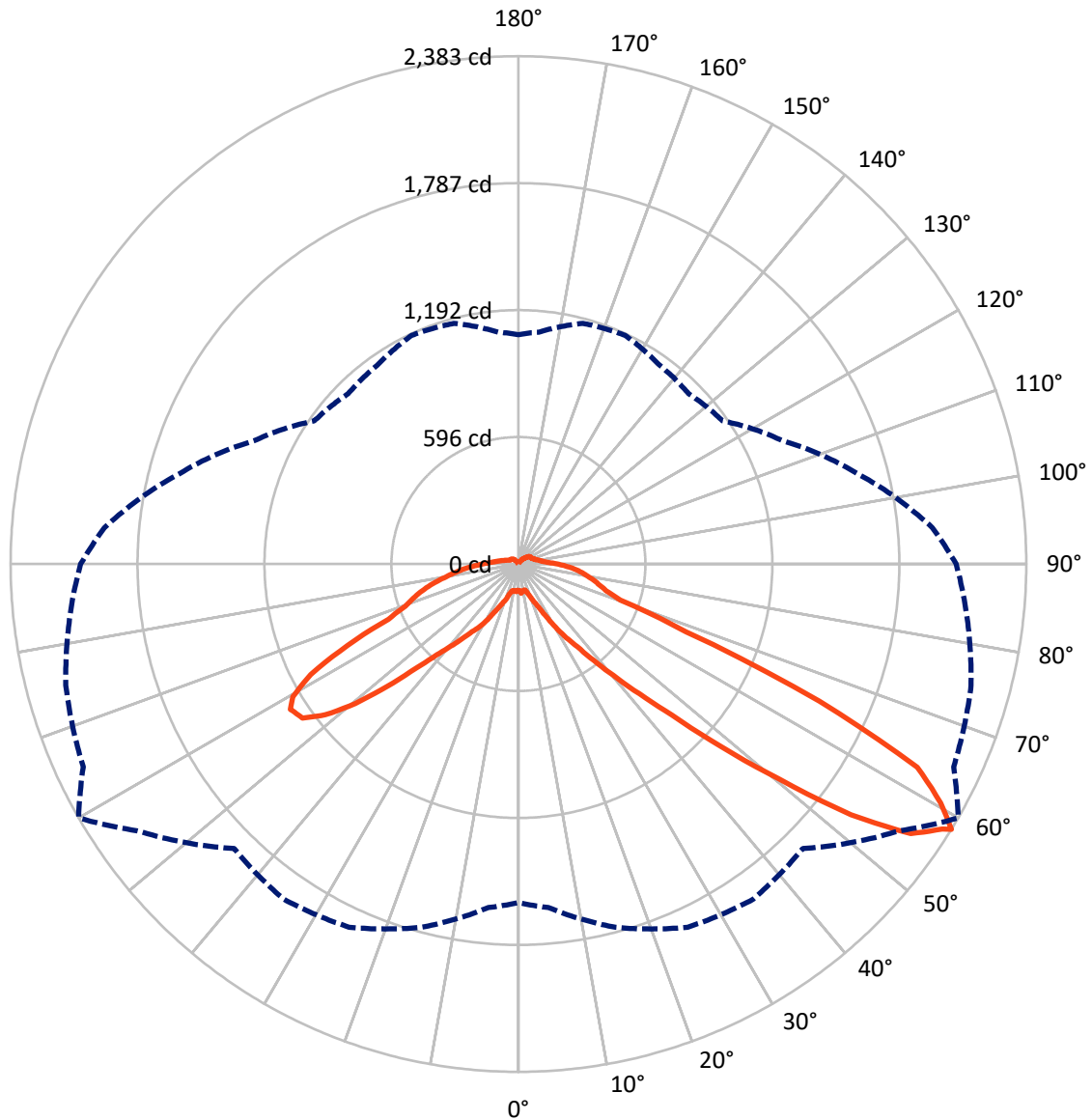
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical



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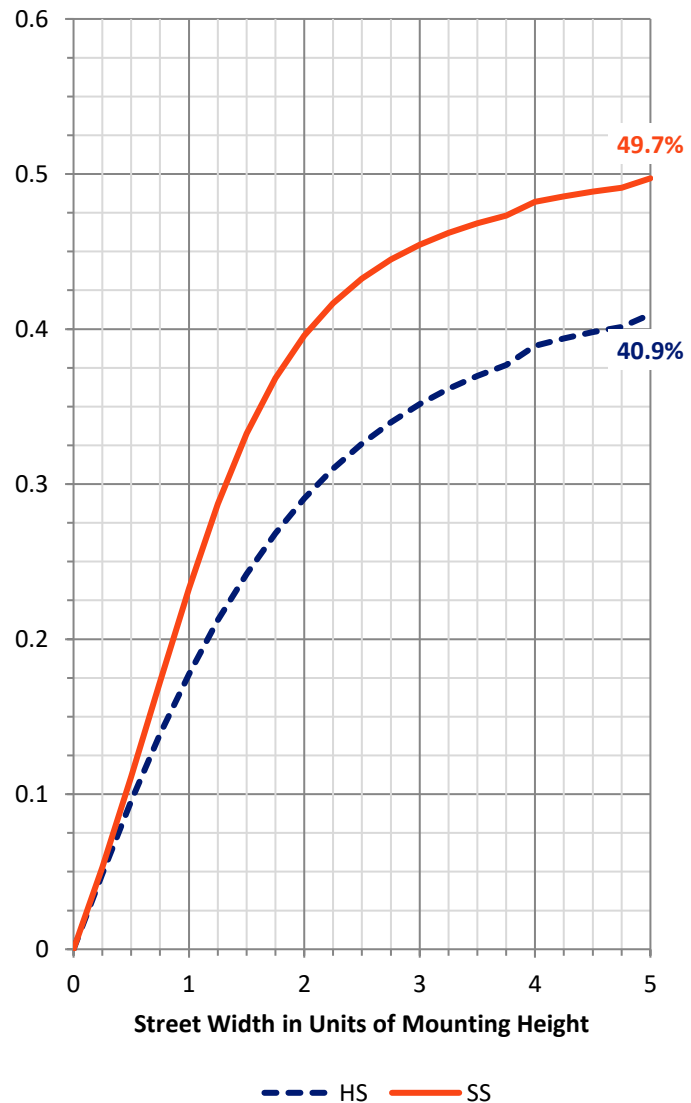
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.1	140.8	2402.9
	% Fixture	42.8	2.7	45.4
Street Side	Lumens	2732.5	154.4	2886.9
	% Fixture	51.7	2.9	54.6
Total	Lumens	4994.7	295.2	5289.8
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.2
10°-20°	44.6	0.8
20°-30°	119.5	2.3
30°-40°	290.0	5.5
40°-50°	680.2	12.9
50°-60°	1360.7	25.7
60°-70°	1312.8	24.8
70°-80°	810.1	15.3
80°-90°	364.4	6.9
90°-100°	124.7	2.4
100°-110°	66.9	1.3
110°-120°	44.5	0.8
120°-130°	33.2	0.6
130°-140°	19.7	0.4
140°-150°	6.2	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4994.7	94.4
0°-180°	5289.8	100.0



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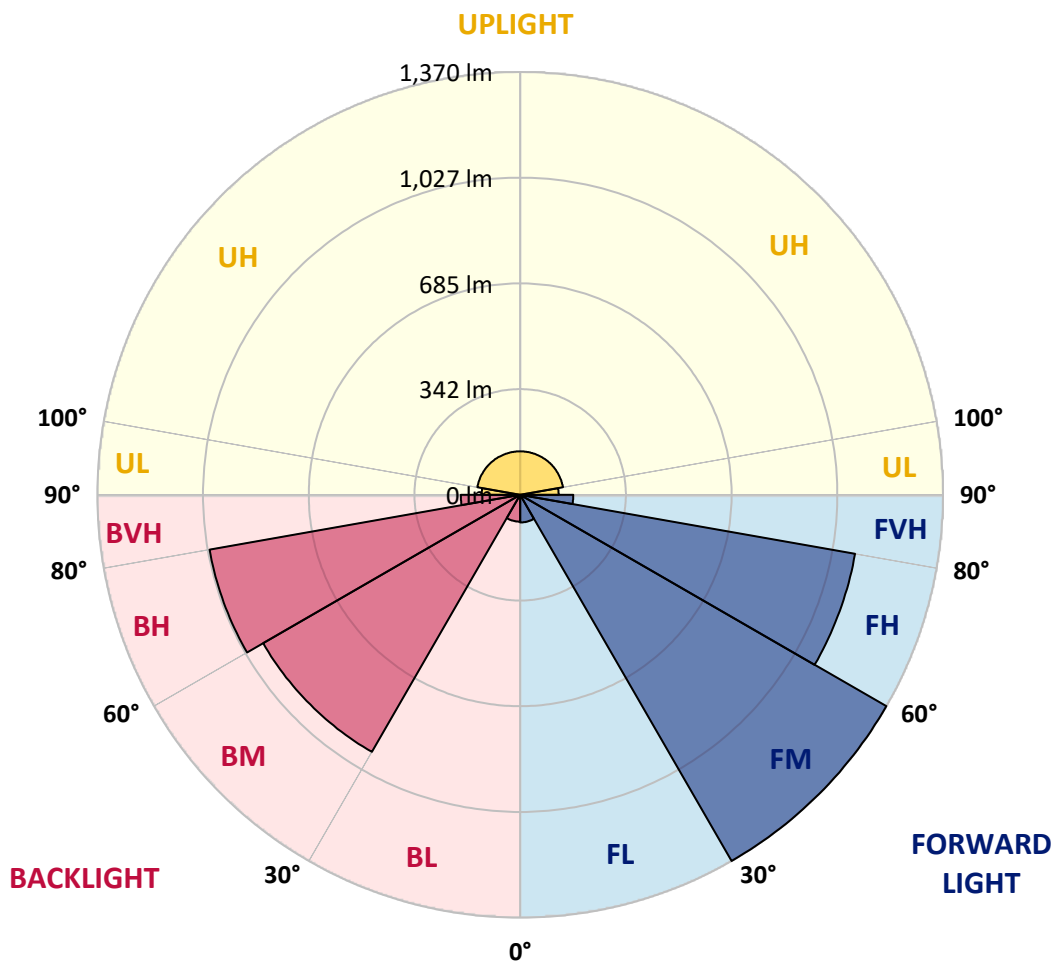
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	89.6	1.7			
FM (30°-60°)	1369.6	25.9			
FH (60°-80°)	1101.4	20.8			G1/1800
FVH (80°-90°)	172.0	3.3			G2/225
BL (0°-30°)	87.0	1.6	B0/110		
BM (30°-60°)	961.3	18.2	B1/1000		
BH (60°-80°)	1021.5	19.3	B3/2500		G3/2500
BVH (80°-90°)	192.4	3.6			G2/225
UL (90°-100°)	124.7	2.4		U3/500	
UH (100°-180°)	140.8	2.7		U3/500	

BUG Rating: B3-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	125	125	125	125	125	125	125	125	125	125	125
2.5°	138	137	133	131	128	127	125	125	124	120	119
5°	132	131	126	124	128	132	135	138	135	130	123
7.5°	141	142	136	140	145	130	127	130	131	130	123
10°	150	147	142	142	138	139	133	128	127	121	119
12.5°	159	154	158	159	152	138	127	125	123	121	122
15°	194	180	185	169	159	141	132	131	130	130	131
17.5°	202	191	199	195	169	155	147	146	144	144	146
20°	228	228	232	212	191	181	171	169	166	166	172
22.5°	257	247	250	236	227	216	204	196	190	192	192
25°	275	278	281	273	264	251	239	229	224	221	217
27.5°	327	328	327	319	312	297	287	280	275	263	259
30°	382	385	385	375	367	349	346	344	335	317	312
32.5°	446	448	449	442	425	425	420	412	408	379	357
35°	524	527	526	520	503	482	479	475	472	448	431
37.5°	607	609	617	603	580	564	578	574	573	537	506
40°	696	699	713	701	679	673	685	686	687	655	622
42.5°	805	806	817	815	798	789	811	832	835	786	744
45°	951	952	976	960	944	911	996	1010	1044	996	981
47.5°	1093	1098	1131	1126	1114	1114	1276	1279	1368	1373	1311
50°	1218	1233	1292	1317	1355	1379	1601	1586	1681	1678	1590
52.5°	1371	1388	1448	1514	1569	1618	1852	1955	1949	1964	1871
55°	1467	1492	1617	1715	1708	1801	2077	2233	2152	2169	2072
57.5°	1571	1597	1740	1852	1886	1905	2182	2346	2221	2183	2147
58°	1589	1618	1765	1880	1920	1887	2182	2383	2253	2199	2103
60°	1647	1677	1835	1968	1976	1934	2231	2277	2154	2026	1960
62.5°	1721	1756	1904	1951	1975	1854	2044	2100	1896	1766	1605
65°	1681	1722	1891	1923	1795	1710	1690	1551	1324	1012	883
67.5°	1604	1643	1763	1753	1564	1233	1064	849	642	404	338
70°	1440	1475	1581	1516	1286	873	622	508	415	298	247
72.5°	1223	1253	1328	1267	1041	725	501	431	368	273	230
75°	1022	1039	1104	1064	875	630	452	392	340	264	230
77.5°	872	880	920	888	751	552	412	360	318	250	221
80°	682	692	734	741	625	486	368	323	290	229	203
82.5°	516	523	564	577	514	410	327	291	262	209	191
85°	350	352	394	427	401	338	287	255	231	188	173
87.5°	226	227	256	291	299	270	240	214	194	155	135
90°	155	157	174	198	216	211	196	174	158	122	101
92.5°	116	117	127	143	157	163	156	140	124	95	78
95°	92	91	99	111	123	132	131	118	104	80	70
97.5°	75	75	82	90	101	113	115	106	96	77	72
100°	64	64	68	76	86	98	103	97	91	75	75
102.5°	54	54	57	65	75	87	92	88	84	70	72
105°	45	45	48	55	67	78	83	81	78	63	68
107.5°	37	37	40	48	60	73	78	77	74	61	65



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	31	31	34	43	54	65	73	72	70	63	64
112.5°	26	26	29	39	50	60	67	68	66	65	62
115°	23	23	25	36	48	59	66	67	65	65	60
117.5°	21	21	23	33	45	56	64	67	67	67	63
120°	20	20	21	30	41	51	60	64	65	67	64
122.5°	19	19	19	26	38	47	58	63	63	66	61
125°	18	18	18	22	35	46	55	60	61	64	59
127.5°	17	17	17	19	31	43	52	55	56	60	57
130°	16	16	16	16	26	38	46	48	50	54	53
132.5°	15	15	14	14	22	32	40	41	44	49	50
135°	13	13	12	12	16	27	35	37	40	43	45
137.5°	11	11	10	10	11	22	30	32	36	40	42
140°	9	9	9	8	8	16	25	28	32	36	38
142.5°	8	7	7	7	7	10	19	24	27	32	34
145°	6	6	6	5	5	6	13	17	20	26	28
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
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°	125	125	125	125	125	125	125	125	125	125	125
2.5°	118	120	123	123	124	124	124	127	130	130	130
5°	125	127	130	131	129	126	123	123	129	132	132
7.5°	123	126	128	127	125	130	139	133	129	133	133
10°	121	122	121	127	135	134	132	138	138	143	150
12.5°	123	124	124	126	129	136	149	150	148	148	150
15°	131	132	132	133	135	140	157	170	181	176	186
17.5°	147	149	149	150	150	158	169	185	197	196	200
20°	174	174	174	174	178	187	194	207	219	217	213
22.5°	191	189	192	191	205	214	225	233	244	246	243
25°	217	216	215	217	230	243	258	267	274	276	276
27.5°	256	252	250	256	265	279	291	301	311	314	313
30°	307	302	294	309	304	316	327	341	353	357	356
32.5°	349	340	332	347	352	356	368	385	400	404	403
35°	409	396	381	383	388	394	415	432	443	447	445
37.5°	479	465	442	435	441	440	459	482	494	495	493
40°	579	570	530	512	488	490	508	535	548	553	549
42.5°	693	677	629	582	564	549	564	596	616	621	615
45°	947	904	820	727	636	615	631	671	688	684	677
47.5°	1253	1176	1050	901	782	699	711	749	769	767	760
50°	1512	1440	1252	1089	926	820	805	854	859	828	821
52.5°	1798	1719	1514	1256	1043	952	928	956	929	880	873
55°	1996	1894	1661	1352	1137	1051	1044	1042	1010	960	948
57.5°	2075	1982	1687	1351	1176	1126	1130	1158	1145	1066	1051
58°	2054	1950	1644	1368	1170	1130	1145	1184	1169	1092	1076
60°	1890	1835	1483	1290	1168	1146	1215	1288	1294	1209	1196
62.5°	1512	1464	1227	1134	1075	1159	1292	1406	1404	1305	1282
65°	797	798	797	804	973	1150	1343	1496	1525	1436	1409
67.5°	316	326	389	529	795	1076	1366	1576	1630	1543	1522
70°	227	239	310	451	681	1012	1334	1593	1687	1623	1610
72.5°	209	217	282	413	624	937	1294	1622	1721	1669	1653
75°	205	210	264	378	559	850	1221	1519	1593	1541	1510
77.5°	200	201	245	341	483	731	1032	1277	1277	1218	1189
80°	188	186	223	299	410	595	799	938	918	876	846
82.5°	177	172	203	260	349	476	586	666	642	608	589
85°	163	157	182	229	292	362	444	486	463	423	415
87.5°	131	130	155	196	232	287	334	349	317	277	271
90°	101	104	130	162	186	221	242	231	200	173	166
92.5°	81	85	109	133	152	164	168	154	138	123	119
95°	75	76	94	113	123	127	122	111	103	95	92
97.5°	77	77	88	100	104	102	96	86	80	74	71
100°	80	78	83	90	88	85	79	70	64	58	56
102.5°	77	74	75	79	76	73	67	59	52	46	45
105°	72	69	67	69	67	64	59	50	43	37	36
107.5°	67	64	61	61	60	57	51	44	36	30	30



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	64	60	56	54	53	50	45	38	30	25	25
112.5°	62	58	52	49	47	45	41	34	26	22	21
115°	59	55	49	46	43	41	37	31	23	20	19
117.5°	60	55	49	45	41	38	34	28	20	18	18
120°	60	55	48	43	40	36	32	24	18	17	17
122.5°	58	55	48	42	38	35	29	21	16	16	16
125°	57	54	49	43	38	33	27	18	16	15	15
127.5°	56	53	48	42	36	31	23	16	15	15	15
130°	53	51	46	40	34	28	19	14	13	14	14
132.5°	50	48	43	37	30	23	16	13	12	13	13
135°	46	44	39	33	26	20	13	11	11	11	11
137.5°	42	42	37	29	23	16	10	9	9	10	10
140°	38	38	33	26	19	12	8	8	8	9	9
142.5°	34	34	29	22	15	8	6	6	7	7	7
145°	29	28	24	17	10	5	5	5	5	6	6
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
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)