

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: P853303

Luminaire Tested: **CRTK-N-20-740-U-T3-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-20-740-U-T3-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.1 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

Input Watts (W): 23.2
Input Voltage (V): 120.0
Input Current (Ain): 0.196
Voltage Rise (V): NR
Power Factor: 0.9875
Total Harmonic Distortion (THDi): 10%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

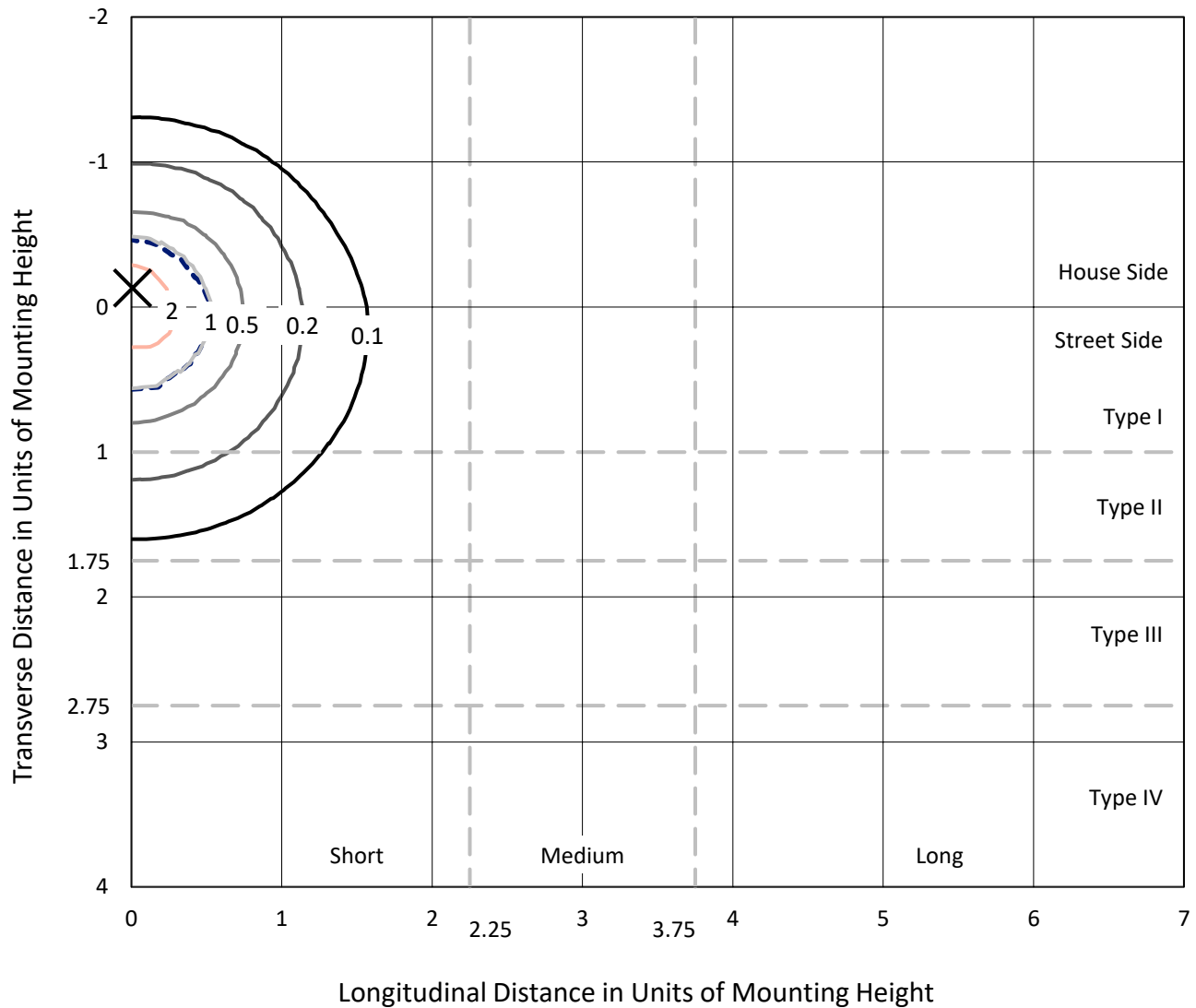


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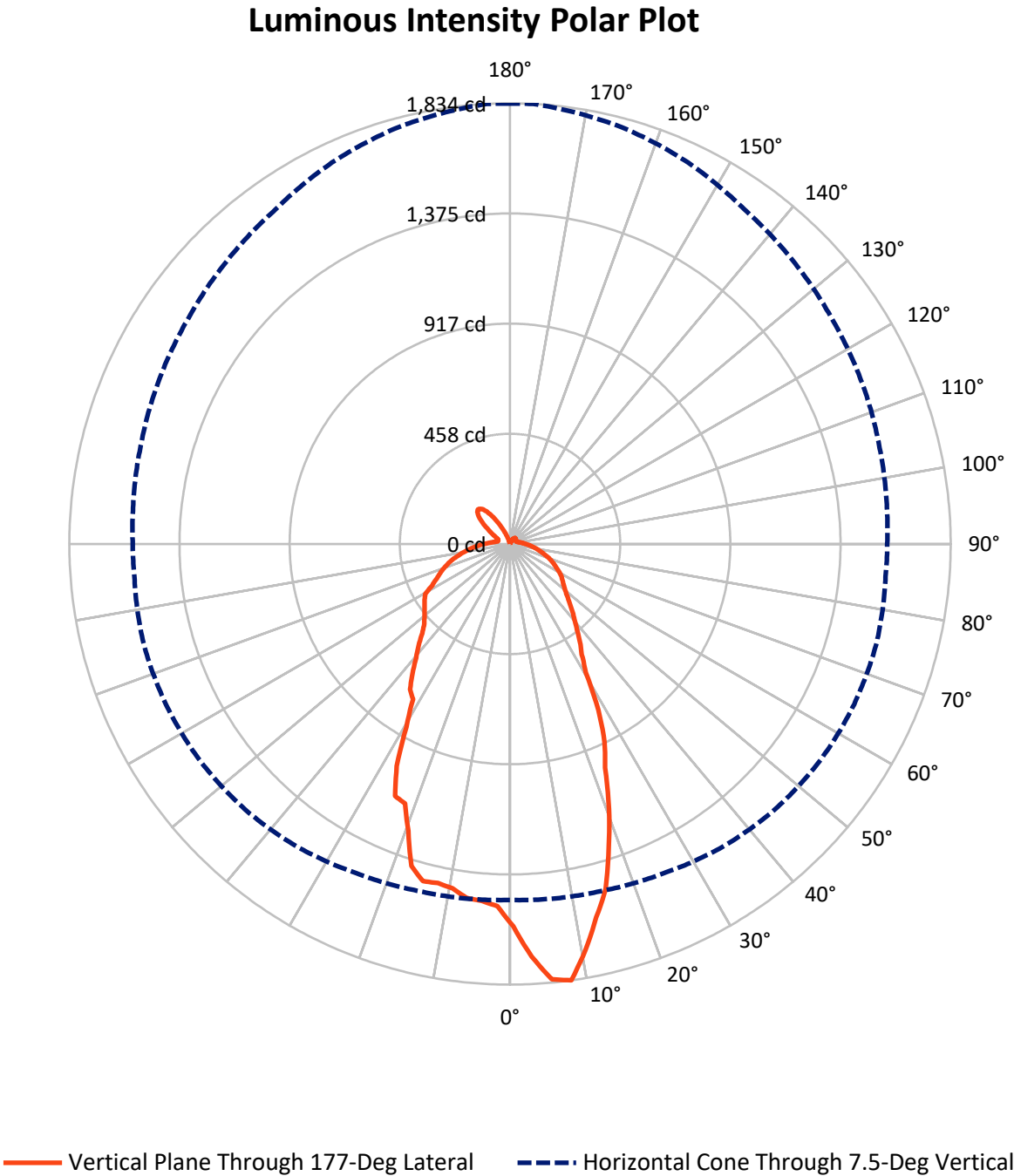
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type I - Short - N/A

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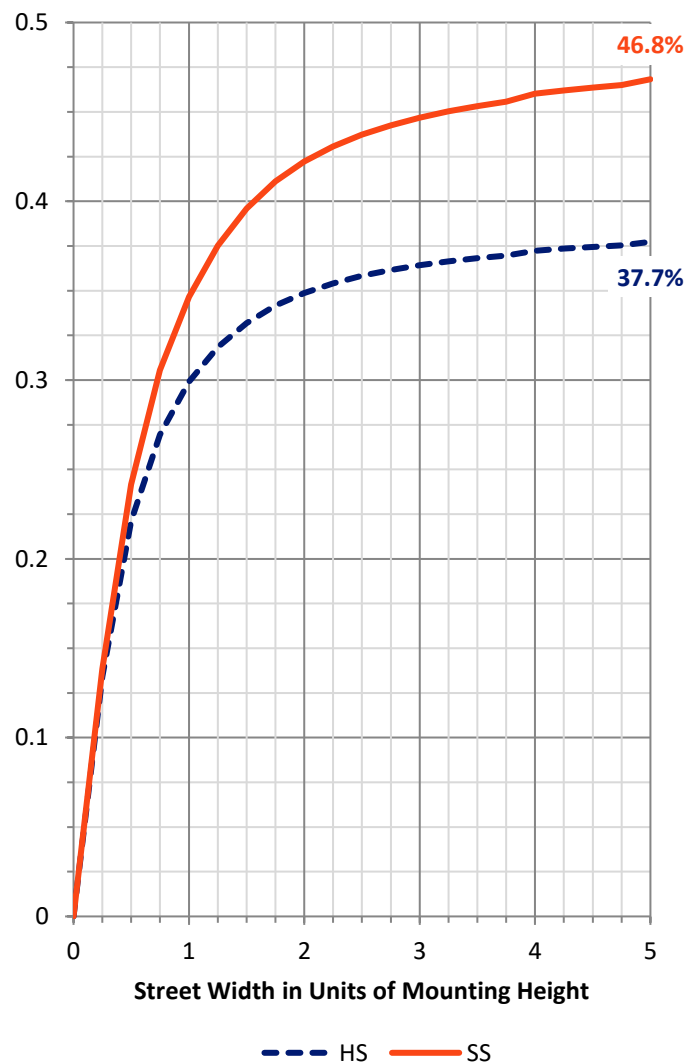
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.8	144.3	1364.1
	% Fixture	38.8	4.6	43.4
Street Side	Lumens	1511.7	266.2	1778.0
	% Fixture	48.1	8.5	56.6
Total	Lumens	2731.5	410.6	3142.1
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	4.9
10°-20°	400.7	12.8
20°-30°	458.1	14.6
30°-40°	390.6	12.4
40°-50°	347.3	11.1
50°-60°	335.0	10.7
60°-70°	291.2	9.3
70°-80°	218.6	7.0
80°-90°	137.2	4.4
90°-100°	74.5	2.4
100°-110°	46.1	1.5
110°-120°	46.7	1.5
120°-130°	67.5	2.1
130°-140°	86.7	2.8
140°-150°	64.7	2.1
150°-160°	22.1	0.7
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-90°	2731.5	86.9
0°-180°	3142.1	100.0

Coefficient of Utilization



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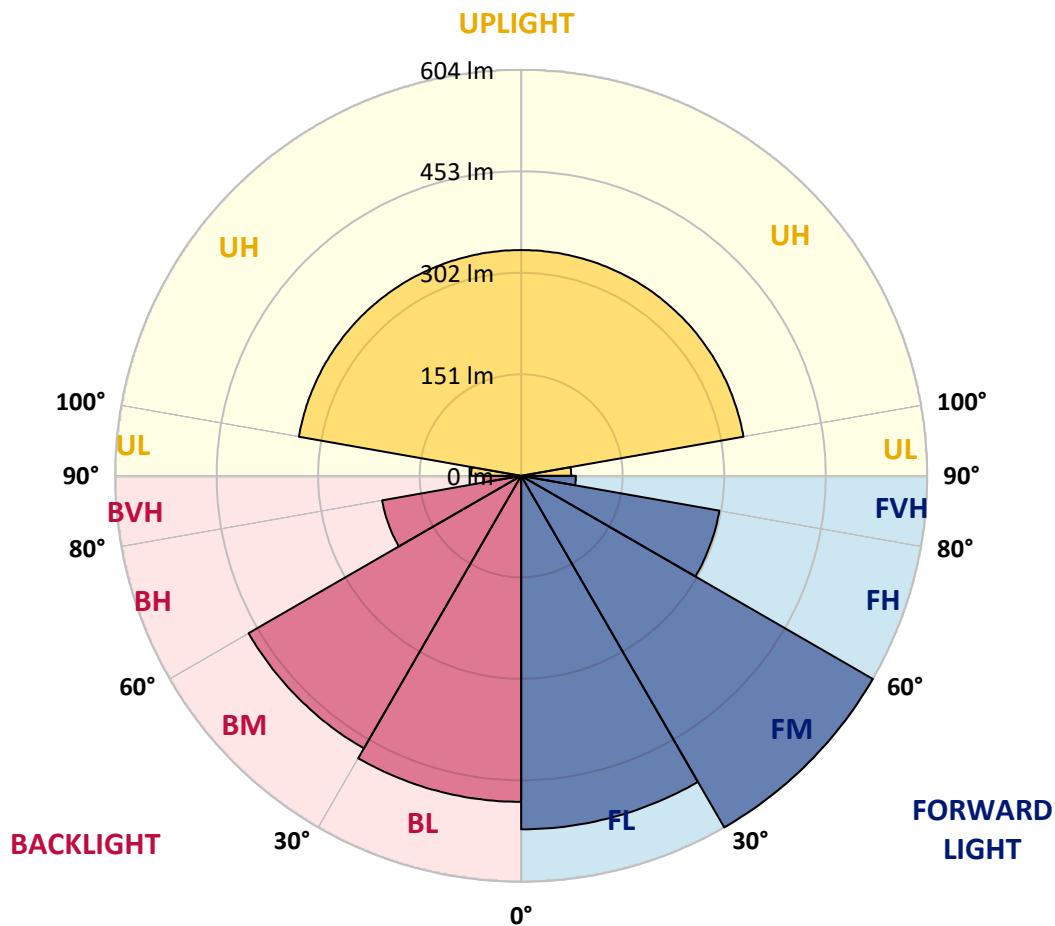
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.2	16.7			
FM	(30°-60°)	604.4	19.2			
FH	(60°-80°)	299.6	9.5			G0/660
FVH	(80°-90°)	81.5	2.6			G1/100
BL	(0°-30°)	485.4	15.4	B1/500		
BM	(30°-60°)	468.5	14.9	B1/1000		
BH	(60°-80°)	210.2	6.7	B1/500		G1/500
BVH	(80°-90°)	55.7	1.8			G1/100
UL	(90°-100°)	74.5	2.4		U3/500	
UH	(100°-180°)	336.1	10.7		U3/500	

BUG Rating: B1-U3-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591
2.5°	1508	1508	1516	1523	1532	1539	1549	1563	1574	1579	1587
5°	1489	1491	1502	1519	1536	1550	1567	1584	1595	1599	1607
7.5°	1482	1485	1494	1512	1540	1561	1574	1580	1580	1569	1570
10°	1450	1455	1466	1490	1518	1533	1532	1530	1520	1498	1493
12.5°	1443	1443	1460	1483	1504	1510	1502	1495	1474	1445	1436
15°	1443	1453	1467	1482	1495	1499	1498	1489	1469	1432	1417
17.5°	1396	1406	1403	1417	1431	1438	1436	1451	1469	1431	1411
20°	1265	1268	1275	1296	1385	1376	1368	1370	1350	1266	1242
22.5°	1155	1172	1206	1205	1216	1193	1222	1166	1195	1162	1141
25°	1151	1154	1104	1087	1111	1076	1067	1106	1112	1027	1001
27.5°	1031	1042	1044	1004	986	980	918	965	958	985	960
30°	857	887	871	847	835	826	814	822	799	718	705
32.5°	762	761	759	760	748	733	722	715	703	687	677
35°	735	733	726	711	703	695	688	683	670	652	645
37.5°	673	674	666	654	647	638	628	620	606	589	585
40°	614	614	608	593	584	574	566	559	548	535	532
42.5°	568	568	563	548	540	530	521	515	507	497	494
45°	520	521	517	507	501	493	483	476	467	458	456
47.5°	488	487	489	480	475	467	460	454	451	447	441
50°	467	468	470	468	472	464	457	454	445	432	423
52.5°	448	452	454	455	457	455	451	442	426	415	406
55°	436	438	439	444	445	441	437	432	420	409	402
57.5°	422	425	430	436	437	434	435	432	422	415	403
60°	407	410	408	413	415	416	412	415	406	390	379
62.5°	365	367	368	376	378	376	371	365	357	347	341
65°	339	340	341	346	345	344	340	336	332	325	320
67.5°	316	318	318	323	321	320	316	313	310	304	299
70°	295	298	296	301	299	297	293	290	287	281	277
72.5°	272	275	274	278	276	274	271	268	263	258	254
75°	249	251	250	254	252	250	245	243	239	234	228
77.5°	222	225	225	228	224	223	219	218	215	210	205
80°	198	201	201	202	199	198	194	194	190	186	182
82.5°	174	177	176	177	174	173	169	170	167	163	160
85°	151	154	152	153	150	148	146	147	145	141	138
87.5°	131	131	130	131	128	126	125	126	123	120	118
90°	110	111	110	111	108	107	106	106	104	101	99
92.5°	93	93	92	93	91	91	90	90	89	86	85
95°	78	78	78	78	77	77	77	76	76	73	72
97.5°	67	67	66	67	66	66	66	65	65	62	62
100°	58	58	57	57	57	57	57	56	55	53	53
102.5°	53	53	53	53	52	52	51	50	49	47	47
105°	51	51	51	50	50	50	49	47	46	44	43
107.5°	51	51	51	50	50	49	48	46	45	43	42
110°	53	53	52	52	51	50	49	47	45	43	42

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	56	56	56	55	54	53	51	49	46	45	44
115°	62	62	62	60	59	57	54	52	50	48	47
117.5°	71	71	70	68	66	64	60	58	55	53	51
120°	83	83	82	79	77	73	69	65	62	60	58
122.5°	98	98	98	93	90	85	80	76	71	69	66
125°	117	116	116	109	107	101	94	89	83	79	76
127.5°	139	138	136	129	125	118	110	104	96	91	87
130°	159	159	157	150	145	138	127	120	109	102	98
132.5°	177	177	175	169	163	154	143	133	120	112	108
135°	191	190	188	183	177	167	155	144	130	120	116
137.5°	196	196	193	189	183	173	162	150	137	126	122
140°	192	192	190	188	182	173	163	151	139	128	122
142.5°	183	183	181	181	175	167	158	147	136	124	119
145°	164	165	163	165	160	154	147	137	128	117	111
147.5°	141	141	140	144	139	135	130	121	115	104	99
150°	114	115	114	117	113	110	108	102	97	88	84
152.5°	88	88	87	90	86	85	84	80	78	70	67
155°	65	65	65	67	63	62	63	60	59	53	51
157.5°	46	46	45	47	45	44	45	43	42	38	36
160°	30	30	29	31	29	29	30	28	28	26	24
162.5°	16	16	16	18	17	17	18	17	17	16	15
165°	6	6	6	7	7	7	8	7	8	7	7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
0°	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591
2.5°	1595	1614	1636	1651	1671	1690	1704	1722	1729	1720	1720
5°	1614	1638	1665	1686	1712	1742	1776	1806	1822	1820	1820
7.5°	1575	1590	1612	1635	1666	1700	1752	1796	1828	1834	1833
10°	1494	1494	1507	1524	1547	1582	1635	1679	1713	1721	1721
12.5°	1427	1425	1429	1440	1459	1487	1526	1561	1589	1595	1596
15°	1406	1386	1382	1387	1397	1411	1444	1467	1487	1490	1488
17.5°	1394	1357	1305	1293	1297	1308	1328	1334	1324	1330	1323
20°	1234	1231	1209	1195	1178	1140	1152	1161	1174	1177	1174
22.5°	1120	1082	1024	1039	1005	1009	1031	1015	1008	1012	1006
25°	1001	991	925	893	880	870	882	881	905	915	908
27.5°	938	856	809	767	774	760	762	775	780	783	777
30°	702	719	704	683	668	654	651	637	619	621	607
32.5°	668	651	629	612	598	584	571	555	547	548	540
35°	638	620	596	577	561	543	526	507	500	502	494
37.5°	581	567	545	527	511	489	475	459	452	453	446
40°	529	514	495	477	461	445	432	419	411	413	407
42.5°	491	475	457	440	425	409	397	384	378	380	374
45°	451	439	421	404	390	374	363	351	345	346	341
47.5°	432	411	392	375	361	345	334	323	320	318	315
50°	415	392	371	354	338	323	311	302	296	296	294
52.5°	395	372	349	331	316	302	292	283	280	278	276
55°	388	362	336	316	300	287	278	270	266	265	263
57.5°	387	353	322	300	284	271	263	256	252	251	249
60°	368	336	307	287	271	257	249	242	239	235	232
62.5°	331	307	284	268	254	240	229	221	218	216	214
65°	312	290	268	251	236	223	214	206	203	201	199
67.5°	292	271	249	232	219	206	197	190	187	185	183
70°	270	249	225	211	199	187	179	173	170	169	166
72.5°	246	223	203	190	179	168	162	155	153	151	149
75°	221	201	182	170	160	151	145	139	136	135	133
77.5°	199	180	162	152	143	135	129	125	122	121	120
80°	177	159	145	135	126	119	115	111	109	108	107
82.5°	153	139	127	118	111	105	101	98	97	95	95
85°	133	120	109	103	96	91	88	86	85	84	83
87.5°	113	103	94	88	83	79	76	75	74	73	72
90°	95	87	80	75	71	67	65	64	64	63	63
92.5°	81	75	69	66	62	59	58	57	56	56	56
95°	70	65	61	58	55	53	51	51	50	50	50
97.5°	60	57	53	51	49	47	46	45	45	44	44
100°	51	49	46	45	43	41	40	40	40	39	39
102.5°	45	43	41	39	38	36	36	35	35	35	35
105°	42	40	38	36	35	34	33	32	32	32	32
107.5°	41	39	37	35	33	32	31	29	30	30	30
110°	41	39	37	35	33	32	31	28	29	29	29

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
112.5°	43	40	38	36	34	33	31	27	28	28	28
115°	46	43	40	38	36	34	32	26	27	27	27
117.5°	50	47	44	41	38	36	33	27	27	27	27
120°	57	52	48	45	42	39	35	27	28	28	28
122.5°	65	59	54	49	46	42	37	29	29	29	30
125°	74	67	61	55	51	45	39	30	30	31	31
127.5°	84	76	68	61	56	48	41	32	31	31	31
130°	94	84	76	67	60	52	43	33	30	31	32
132.5°	103	92	83	73	65	55	45	34	31	32	32
135°	111	99	88	77	68	58	46	35	32	32	33
137.5°	116	103	91	80	69	59	47	35	32	32	32
140°	117	104	91	79	68	58	46	35	31	32	31
142.5°	113	100	87	75	65	55	44	33	29	30	30
145°	105	93	81	69	60	50	40	30	26	27	26
147.5°	93	83	71	61	53	44	35	26	22	23	22
150°	79	71	60	51	44	37	29	21	18	18	17
152.5°	62	57	49	40	35	29	23	17	13	14	13
155°	48	43	37	31	27	22	17	12	9	10	9
157.5°	34	31	27	22	19	16	12	9	6	6	6
160°	23	21	18	15	13	11	8	6	3	3	3
162.5°	14	13	11	9	8	7	5	3	2	2	2
165°	7	6	5	4	4	3	3	2	1	1	1
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)