

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: P14229

Luminaire Tested: **CRTK-X-A08-E-120-5-SR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14229
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-X-A08-E-120-5-SR
Description: STREETWORKS CARETAKER, TYPE 5, 8 LED WITH SMALL REFRACTOR
Light Source: [8]4000K LEDS
Ballast/Driver: [1]ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4674.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.29')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 49
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



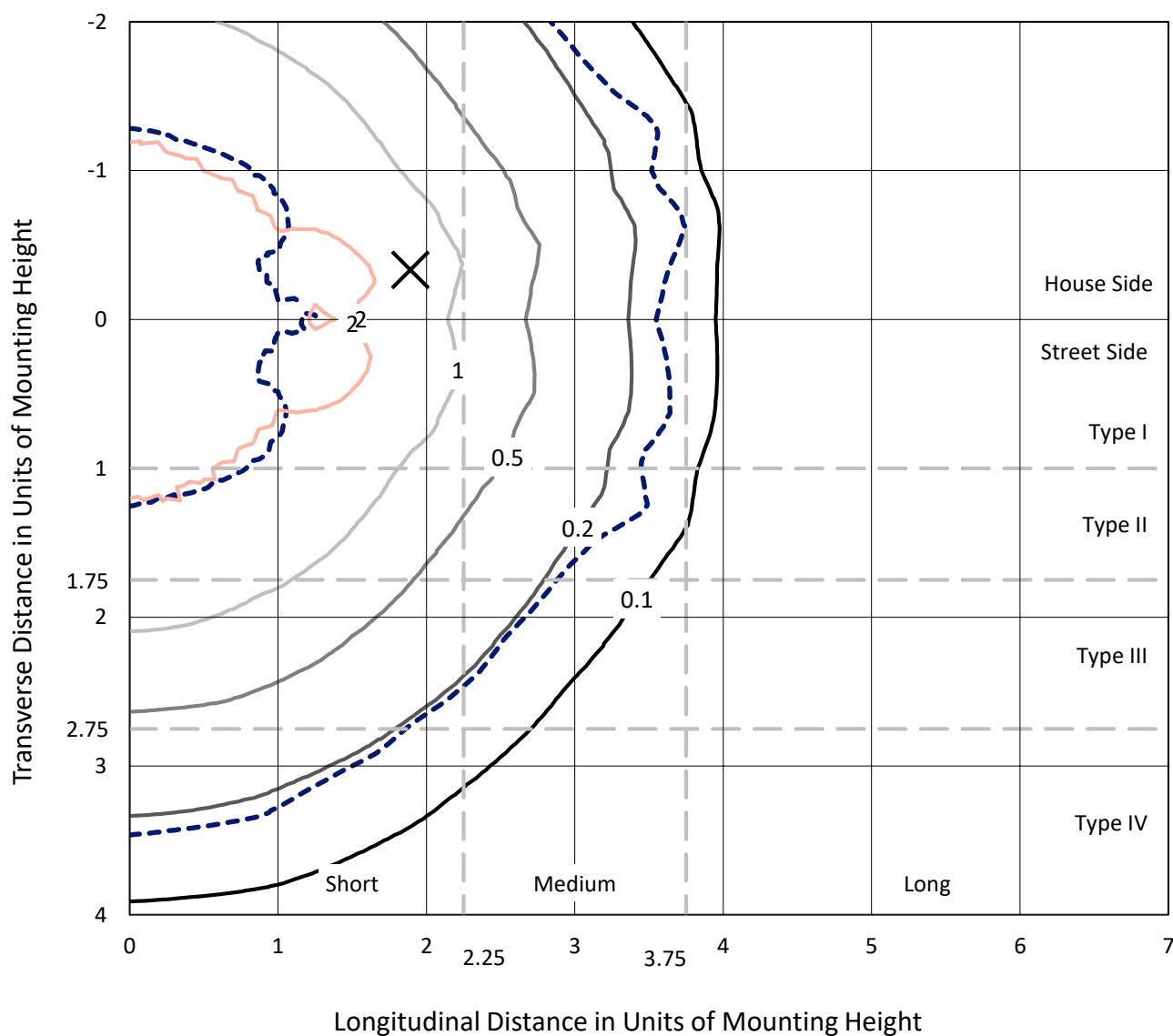
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

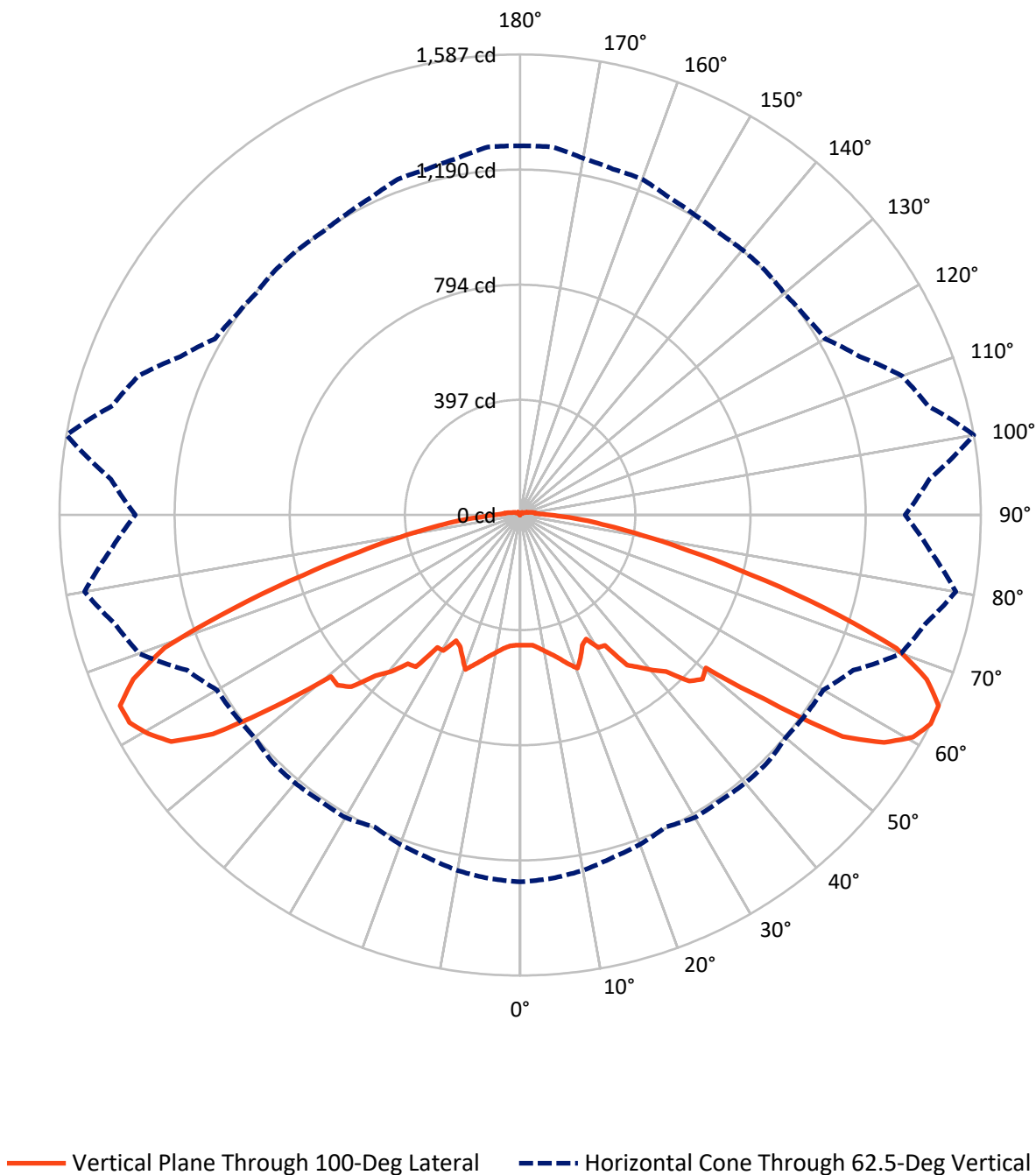


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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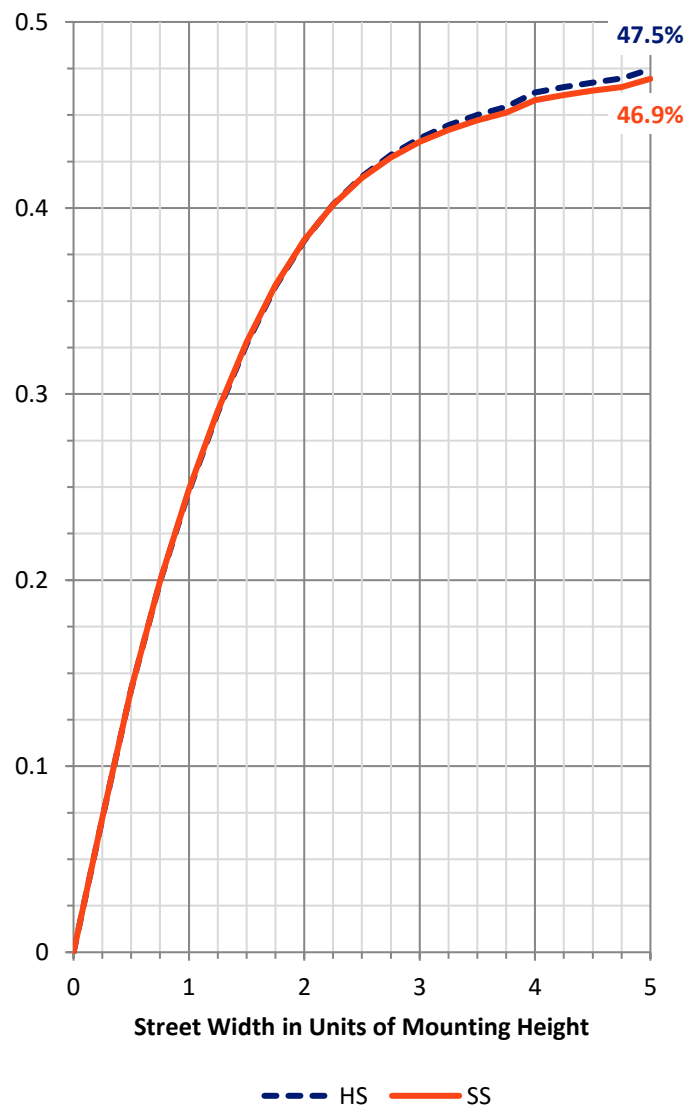
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.5	76.4	2348.9
	% Fixture	48.6	1.6	50.3
Street Side	Lumens	2249.1	76.4	2325.5
	% Fixture	48.1	1.6	49.7
Total	Lumens	4521.6	152.7	4674.3
	% Fixture	96.7	3.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	0.9
10°-20°	148.1	3.2
20°-30°	234.9	5.0
30°-40°	358.4	7.7
40°-50°	556.4	11.9
50°-60°	913.9	19.6
60°-70°	1228.3	26.3
70°-80°	783.1	16.8
80°-90°	254.3	5.4
90°-100°	68.0	1.5
100°-110°	37.1	0.8
110°-120°	19.8	0.4
120°-130°	11.3	0.2
130°-140°	7.9	0.2
140°-150°	5.4	0.1
150°-160°	2.3	0.0
160°-170°	0.9	0.0
170°-180°	0.1	0.0
0°-90°	4521.6	96.7
0°-180°	4674.3	100.0

Coefficient of Utilization



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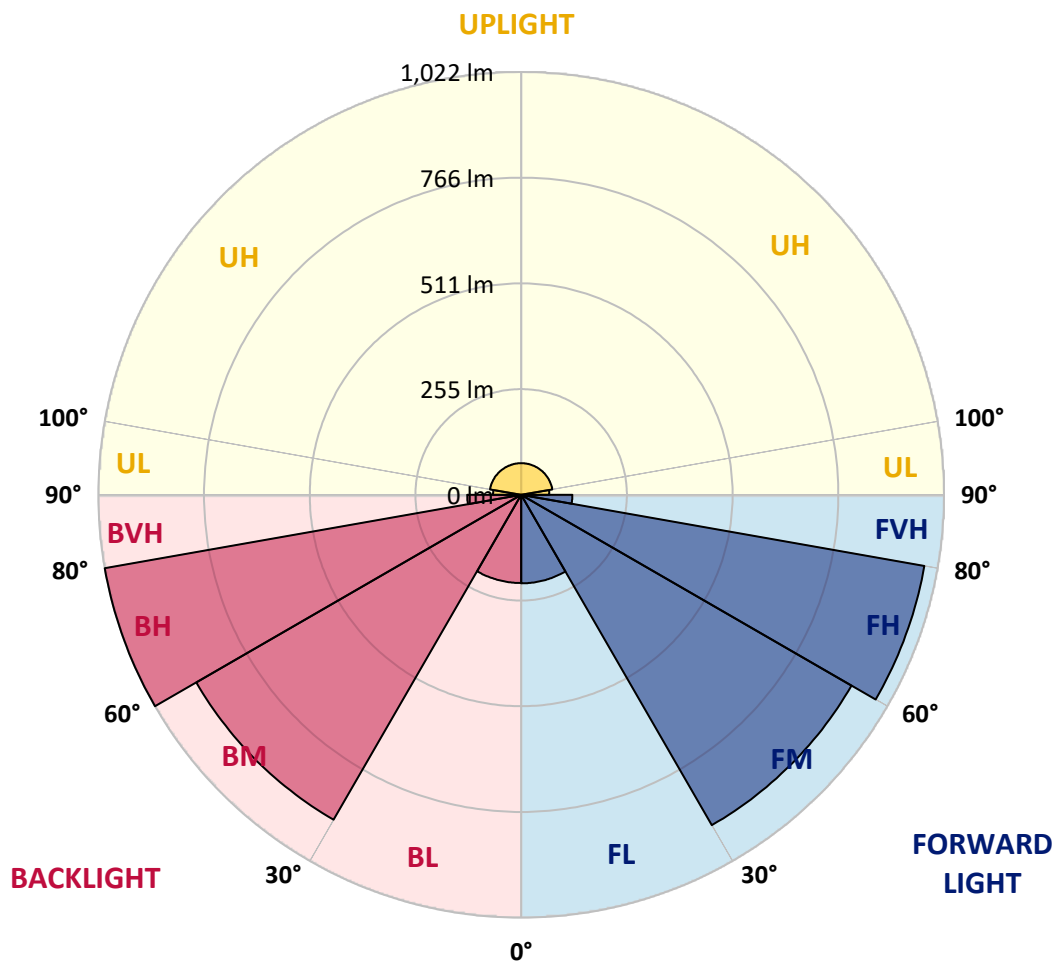
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.9	4.6			
FM	(30°-60°)	922.0	19.7			
FH	(60°-80°)	989.4	21.2			G1/1800
FVH	(80°-90°)	123.8	2.6			G2/225
BL	(0°-30°)	213.3	4.6	B1/500		
BM	(30°-60°)	906.7	19.4	B1/1000		
BH	(60°-80°)	1022.0	21.9	B3/2500		G1/1800
BVH	(80°-90°)	130.5	2.8			G2/225
UL	(90°-100°)	68.0	1.5		U3/500	
UH	(100°-180°)	76.4	1.6		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	449	449	449	449	449	449	449	449	449	449	449
2.5°	449	450	449	448	449	448	449	449	449	449	449
5°	457	457	456	455	459	456	456	456	454	454	454
7.5°	469	468	467	466	468	467	466	466	465	464	464
10°	484	483	482	482	484	483	482	481	481	479	481
12.5°	496	497	497	500	500	499	498	497	499	495	495
15°	517	518	519	521	525	525	521	518	518	517	518
17.5°	539	543	543	545	548	546	548	546	541	541	541
20°	572	571	569	568	568	567	568	570	572	574	571
22.5°	502	504	514	527	536	535	530	520	510	507	508
25°	502	500	496	481	455	452	475	495	500	496	497
27.5°	518	496	478	476	476	477	479	480	495	521	504
30°	452	464	508	530	528	528	528	515	467	454	464
32.5°	517	513	511	517	566	568	524	511	510	507	502
35°	580	581	580	565	507	504	562	579	572	569	568
37.5°	649	642	583	563	562	562	557	572	636	645	636
40°	589	632	651	649	641	643	643	633	622	588	624
42.5°	625	623	645	717	739	742	718	644	614	606	610
45°	745	747	735	711	656	658	701	722	728	724	722
47.5°	745	732	724	722	718	709	694	700	728	750	739
50°	698	704	721	735	733	714	706	686	670	662	670
52.5°	863	871	874	882	876	870	858	848	826	808	824
55°	1030	1023	1010	1009	990	981	983	992	976	965	972
57.5°	1132	1142	1134	1123	1108	1090	1086	1092	1085	1088	1084
60°	1196	1205	1213	1205	1188	1170	1181	1172	1147	1136	1134
62.5°	1264	1257	1244	1223	1208	1186	1204	1202	1206	1206	1194
65°	1246	1237	1238	1228	1201	1180	1204	1194	1205	1200	1187
67.5°	1182	1174	1186	1202	1190	1181	1181	1149	1141	1130	1120
70°	1093	1079	1085	1099	1080	1072	1067	1036	1035	1029	1015
72.5°	913	899	891	883	854	845	846	837	850	856	845
75°	692	688	697	709	701	691	690	668	661	657	646
77.5°	554	548	548	554	540	532	526	510	509	513	500
80°	422	421	424	433	425	420	415	406	400	396	399
82.5°	313	311	309	310	307	305	303	298	300	302	305
85°	224	223	222	219	213	211	213	215	216	218	220
87.5°	135	136	133	132	128	127	131	133	134	136	137
90°	90	89	89	88	88	88	87	88	87	89	90
92.5°	67	69	68	69	69	68	66	67	67	68	68
95°	53	53	53	53	54	54	54	55	56	57	56
97.5°	50	50	51	49	51	50	51	52	53	54	57
100°	46	47	46	47	46	47	46	45	46	47	48
102.5°	40	38	37	38	38	38	38	38	37	40	38
105°	32	32	32	31	32	32	32	32	32	33	34
107.5°	29	27	27	28	28	29	28	28	29	29	30
110°	27	26	25	26	26	27	28	29	30	29	29



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21	21	21	20	21	21	22	22	23	24	23
115°	18	18	16	18	18	19	18	19	22	19	21
117.5°	14	14	15	15	16	17	17	17	17	17	17
120°	14	13	14	15	14	14	16	17	16	17	14
122.5°	12	12	11	12	13	13	13	13	14	14	13
125°	12	11	12	12	12	11	13	12	12	12	13
127.5°	14	13	12	13	13	13	13	14	13	13	14
130°	11	12	11	11	12	13	11	12	12	13	14
132.5°	11	10	10	10	10	11	10	11	12	11	11
135°	11	11	12	12	12	12	13	12	13	13	12
137.5°	10	9	8	10	9	9	10	11	9	10	10
140°	10	10	10	9	10	11	10	10	9	11	11
142.5°	11	11	10	10	11	10	10	10	11	12	10
145°	9	10	10	10	10	9	10	10	9	10	10
147.5°	8	9	9	9	10	10	7	9	8	8	8
150°	8	8	8	8	9	7	7	7	9	8	9
152.5°	7	6	5	5	7	6	6	6	5	5	6
155°	6	6	5	5	6	6	5	5	5	6	5
157.5°	5	5	5	5	6	5	6	5	4	5	6
160°	3	3	2	3	4	3	3	3	2	3	3
162.5°	4	4	4	4	6	4	5	4	4	4	4
165°	3	4	4	4	5	5	3	4	5	4	4
167.5°	3	3	3	3	3	3	3	3	4	2	4
170°	0	1	0	1	2	1	1	2	0	1	1
172.5°	1	2	1	1	1	1	2	1	1	1	2
175°	3	1	2	1	2	2	2	1	1	2	1
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	449	449	449	449	449	449	449	449	449	449	449
2.5°	448	448	449	450	448	449	451	449	450	449	449
5°	453	451	453	453	452	453	454	454	453	451	453
7.5°	464	464	464	463	463	463	462	463	462	463	464
10°	481	481	481	478	479	478	479	477	477	478	478
12.5°	496	497	498	497	496	495	493	496	492	494	493
15°	517	520	523	526	520	516	514	515	513	515	516
17.5°	543	545	546	548	545	539	538	536	537	540	542
20°	571	568	566	565	566	565	566	564	565	564	562
22.5°	522	534	536	538	541	529	519	515	519	533	540
25°	496	487	467	461	483	498	497	499	496	497	492
27.5°	479	477	480	482	483	486	500	524	507	484	482
30°	505	529	534	539	541	537	487	451	470	530	543
32.5°	505	521	574	595	578	538	526	520	523	536	569
35°	576	567	529	561	632	635	613	595	604	635	633
37.5°	585	569	584	595	614	642	696	661	673	666	612
40°	645	674	698	680	692	699	680	639	655	703	693
42.5°	649	761	842	803	788	745	664	633	647	737	781
45°	732	757	779	771	806	830	782	754	763	817	798
47.5°	739	746	801	838	857	860	820	806	814	845	833
50°	698	744	817	927	894	857	729	682	702	829	892
52.5°	827	868	949	1088	1101	1070	935	853	900	1056	1106
55°	964	987	1037	1161	1233	1300	1175	1070	1152	1348	1232
57.5°	1073	1090	1146	1258	1323	1433	1307	1229	1292	1479	1323
60°	1162	1182	1244	1360	1422	1486	1352	1259	1347	1555	1427
62.5°	1200	1206	1266	1396	1446	1524	1418	1326	1415	1587	1454
65°	1198	1189	1245	1388	1422	1527	1423	1326	1421	1584	1440
67.5°	1135	1149	1206	1345	1332	1448	1342	1247	1338	1511	1365
70°	1028	1045	1084	1197	1157	1307	1216	1127	1204	1375	1194
72.5°	853	860	887	960	915	1033	988	937	982	1098	951
75°	668	686	720	786	738	775	757	727	753	817	758
77.5°	513	517	539	582	545	570	561	558	558	594	554
80°	416	418	425	439	414	420	400	413	398	427	421
82.5°	312	312	315	318	297	300	297	309	298	302	300
85°	224	217	220	217	209	214	206	204	207	217	214
87.5°	138	138	137	135	132	135	136	134	137	138	134
90°	93	93	93	92	91	91	91	90	92	92	92
92.5°	70	70	71	72	70	71	69	68	69	69	72
95°	59	60	58	57	56	56	55	53	56	55	56
97.5°	57	57	56	54	53	53	51	53	52	51	52
100°	49	49	50	48	47	45	44	45	44	46	48
102.5°	38	38	38	40	38	37	40	39	39	38	39
105°	34	33	34	34	32	33	32	32	33	32	32
107.5°	29	29	29	30	28	27	27	28	28	29	27
110°	28	28	28	27	27	26	29	31	29	27	27



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	23	23	23	22	22	23	25	26	25	23	22
115°	20	20	22	19	20	21	20	24	22	19	19
117.5°	17	17	17	17	17	18	17	19	17	16	17
120°	15	13	14	13	14	14	15	17	16	16	15
122.5°	13	13	14	13	14	13	14	16	15	13	13
125°	12	12	13	12	13	13	14	14	14	12	12
127.5°	13	14	14	12	13	13	14	15	15	13	13
130°	12	13	12	13	12	13	13	13	13	13	13
132.5°	11	12	12	11	9	10	11	12	10	10	10
135°	15	13	12	12	12	13	12	12	12	11	13
137.5°	10	10	10	9	10	10	10	10	9	8	11
140°	10	11	11	10	10	10	9	9	9	10	9
142.5°	11	11	9	11	11	11	11	10	10	11	11
145°	11	9	9	9	9	9	9	9	10	9	10
147.5°	9	9	8	7	8	8	7	8	8	8	8
150°	8	8	7	8	7	8	8	8	8	8	7
152.5°	5	6	6	5	5	5	4	6	4	5	5
155°	5	6	4	5	6	4	5	4	6	5	6
157.5°	5	6	5	4	4	5	5	6	5	5	4
160°	3	4	3	4	2	3	4	2	3	4	3
162.5°	4	3	4	3	3	5	4	3	5	4	4
165°	4	3	4	4	4	3	4	5	4	3	4
167.5°	5	3	4	4	4	2	4	4	4	4	4
170°	1	1	1	1	1	1	2	0	2	1	1
172.5°	2	1	1	1	2	2	2	1	2	2	2
175°	2	1	2	1	2	2	2	2	2	2	2
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	1	1	1	1	1	1	1	1	1	1	1



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CATALOG NUMBER: CRTK-X-A08-E-120-5-SR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	449	449	449	449	449	449	449	449	449	449	449
2.5°	450	449	450	451	461	451	451	449	449	450	449
5°	457	456	452	453	452	453	454	451	451	452	452
7.5°	463	461	463	463	463	463	463	462	462	462	461
10°	478	477	477	478	477	477	476	475	475	475	476
12.5°	493	495	496	491	491	494	488	488	490	489	489
15°	521	523	517	513	512	509	510	509	510	515	515
17.5°	550	546	540	538	535	534	532	533	533	539	538
20°	563	561	561	562	562	561	561	559	556	555	554
22.5°	541	539	542	539	534	531	539	538	542	541	538
25°	474	475	491	498	497	495	493	495	489	480	480
27.5°	477	477	476	476	502	527	508	474	466	465	464
30°	533	536	525	513	474	446	468	507	514	517	517
32.5°	598	584	532	498	491	494	495	498	524	566	566
35°	606	529	563	564	563	558	557	556	554	512	509
37.5°	594	577	558	585	624	621	619	579	531	534	537
40°	663	687	656	634	620	627	600	595	607	611	614
42.5°	786	810	759	670	594	577	591	646	699	710	711
45°	800	795	775	700	695	691	688	684	691	700	697
47.5°	822	791	732	738	769	790	768	708	667	663	673
50°	902	822	734	668	637	638	637	655	686	703	717
52.5°	1059	951	845	797	785	787	792	802	816	847	847
55°	1140	1043	965	939	940	932	946	956	958	961	966
57.5°	1250	1148	1065	1051	1072	1079	1073	1059	1060	1073	1087
60°	1348	1247	1174	1148	1128	1121	1137	1147	1159	1164	1193
62.5°	1400	1291	1214	1197	1188	1193	1192	1189	1197	1209	1231
65°	1393	1269	1208	1206	1204	1218	1217	1210	1201	1203	1228
67.5°	1359	1238	1172	1157	1146	1159	1173	1186	1202	1211	1231
70°	1230	1132	1085	1070	1059	1076	1087	1096	1123	1144	1164
72.5°	996	932	910	897	886	894	896	902	922	945	960
75°	809	753	723	710	704	712	721	724	732	740	747
77.5°	602	571	543	537	528	531	539	546	562	583	596
80°	455	448	441	432	422	415	424	436	447	464	470
82.5°	326	325	325	326	322	317	319	321	324	325	329
85°	221	226	226	229	230	228	227	228	227	227	231
87.5°	136	140	143	147	148	145	146	143	141	138	140
90°	94	95	96	96	94	94	93	93	92	94	93
92.5°	73	71	74	73	72	70	70	69	70	72	72
95°	60	60	60	60	58	57	56	56	56	57	55
97.5°	55	56	61	59	58	53	54	53	52	51	51
100°	51	51	51	52	51	49	49	49	49	49	51
102.5°	42	41	42	43	42	41	42	41	42	40	41
105°	36	34	34	35	35	35	34	35	35	35	35
107.5°	28	29	30	30	31	30	30	32	31	30	30
110°	29	29	29	30	30	31	30	29	29	29	29



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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	23	23	23	22	24	24	25	23	23	23	23	0°
115°	21	23	20	21	21	22	20	20	20	19	20	2.5°
117.5°	17	17	17	17	17	18	18	18	18	17	17	5°
120°	14	15	15	15	16	17	16	16	15	14	12	7.5°
122.5°	14	14	14	13	14	15	14	15	14	13	12	10°
125°	14	14	13	13	14	13	13	13	12	12	9	12.5°
127.5°	12	13	12	14	14	13	14	12	12	13	11	15°
130°	12	13	12	14	13	12	12	12	11	11	10	17.5°
132.5°	11	10	11	11	11	10	11	10	9	8	9	20°
135°	12	12	12	13	13	11	12	12	11	10	8	22.5°
137.5°	8	9	10	11	11	8	10	9	9	8	6	25°
140°	10	11	10	10	9	10	9	9	8	8	8	27.5°
142.5°	10	10	10	11	11	10	10	9	9	8	8	30°
145°	10	9	9	9	9	9	9	9	7	8	7	32.5°
147.5°	8	7	7	9	8	7	7	6	6	6	5	35°
150°	8	8	8	7	7	8	8	6	6	6	5	37.5°
152.5°	5	6	6	5	6	5	5	5	4	4	3	40°
155°	5	5	5	5	5	5	5	4	5	3	4	42.5°
157.5°	4	5	4	6	4	4	4	3	4	3	3	45°
160°	3	2	2	3	2	2	2	1	2	2	1	47.5°
162.5°	3	3	3	3	3	4	2	3	3	4	4	50°
165°	4	3	3	3	2	4	3	4	3	2	2	52.5°
167.5°	4	3	2	2	3	3	4	2	2	2	3	55°
170°	1	1	2	0	0	1	1	0	1	1	1	57.5°
172.5°	0	2	1	2	2	1	1	1	1	0	0	60°
175°	1	2	1	2	2	2	3	1	2	1	2	62.5°
177.5°	0	0	0	0	0	0	0	1	0	0	0	65°
180°	1	1	1	1	1	1	1	1	1	1	1	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



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REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
449	449	449	449
448	450	448	448
452	452	451	450
460	460	461	462
475	475	475	475
488	487	487	489
511	509	508	507
536	531	531	529
556	555	555	553
539	539	532	531
490	494	491	493
464	472	504	523
514	507	470	442
522	493	490	492
550	553	557	555
537	587	621	621
615	608	611	636
702	654	588	578
679	685	697	694
694	748	797	810
714	688	666	649
836	830	833	822
973	979	990	987
1087	1104	1122	1134
1201	1206	1198	1195
1234	1248	1273	1272
1241	1256	1289	1286
1233	1228	1232	1222
1160	1151	1152	1154
969	972	975	975
755	771	785	788
595	597	594	599
470	468	461	467
334	341	343	346
236	240	240	242
143	150	152	154
92	93	96	96
70	73	71	69
55	55	56	54
51	52	52	51
49	51	50	49
43	43	43	44
33	34	34	35
31	28	27	29
29	26	23	23

CANDELA DISTRIBUTION:

	165°
112.5°	20
115°	17
117.5°	13
120°	11
122.5°	10
125°	9
127.5°	8
130°	8
132.5°	5
135°	7
137.5°	4
140°	5
142.5°	7
145°	6
147.5°	4
150°	4
152.5°	3
155°	2
157.5°	2
160°	2
162.5°	2
165°	2
167.5°	2
170°	0
172.5°	0
175°	1
177.5°	0
180°	1



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CRTK-X-A08-E-120-5-SR

TION (continued):

170°	175°	180°
18	16	16
15	13	14
11	11	11
10	8	7
7	6	7
8	6	5
8	6	6
8	6	4
4	3	3
6	4	6
3	2	3
4	4	3
5	5	5
6	4	5
3	4	3
4	3	3
3	2	2
2	3	4
3	2	1
1	1	0
2	1	2
2	2	3
2	1	1
1	0	0
2	0	1
1	1	2
0	0	0
1	1	1

(END OF REPORT)