

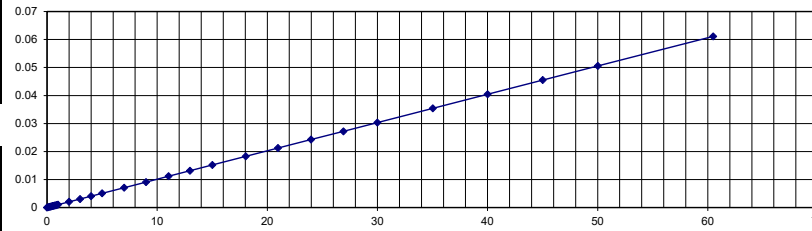
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
TURNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

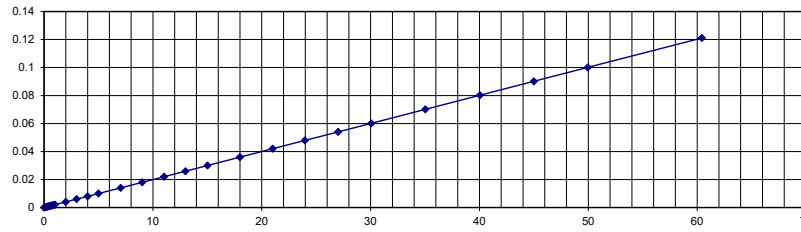


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.00046044	0.00046044	2.45845E-05	0.000859155	-0.000460044	105.343953	18.72883052	98.12711695
0.1A	0.100932262	0.100932262	0.000110905	0.00106152	-0.000353298	131.391447	910.0755996	8.992440041
0.2A	0.202685638	0.202685638	0.000218919	0.000994518	-0.000258865	184.5686321	925.8492233	7.415077668
0.3A	0.299861375	0.299861375	0.000315562	0.0009575	-0.000173322	282.0662164	950.2464478	4.975355215
0.4A	0.400486788	0.400486788	0.000411911	0.001046286	-4.1416E-05	1094.569035	972.2665427	2.773345733
0.5A	0.501800472	0.501800472	0.000517914	0.001056952	6.99391E-05	-640.5204758	968.8884459	3.111155412
0.6A	0.599837505	0.599837505	0.000621534	0.000959471	0.000115087	-440.0553108	965.0920829	3.490791712
0.7A	0.700082967	0.700082967	0.000717717	0.000978915	0.000224882	-219.152836	975.4309467	2.456905329
0.8A	0.801291129	0.801291129	0.000816791	0.001069578	0.000396604	-105.9463287	981.0237783	1.897622171
0.9A	0.898626737	0.898626737	0.000920899	0.001034292	0.000469002	-96.35266244	975.8149135	2.41850865
1A	0.995495287	0.995495287	0.001021089	0.001009218	0.000544232	-87.62018466	974.9348088	2.506519118
2A	1.99885602	1.99885602	0.002033699	0.001009811	0.001558027	-30.53035435	982.8673439	1.713265605
3A	2.99735099	2.99735099	0.00304199	0.001015517	0.002583422	-17.75039081	985.3257178	1.467428225
4A	4.00638599	0.04006386	0.004066683	0.001008906	0.003581626	-13.54292336	985.1730204	1.482697958
5A	5.01066508	0.050106651	0.005079905	0.001002103	0.004560764	-11.38277482	986.3697522	1.363024778
7A	7.00987096	0.035049355	0.007083316	0.001008616	0.006609831	-7.163342087	989.6312491	1.036875087
9A	8.9965066	0.044982533	0.009087069	0.001029283	0.008799512	-3.267882449	990.0338805	0.996611953
11A	11.03827875	0.022076558	0.011188631	0.001009191	0.010679296	-4.769367562	986.5620689	1.343793112
13A	12.9896705	0.025979341	0.013157959	0.001017867	0.012761315	-3.108172949	987.210174	1.278982602
15A	15.02294665	0.030045893	0.015227563	0.00101164	0.014737375	-3.32615742	986.562775	1.343722253
18A	18.04333445	0.036086669	0.018283108	0.001012641	0.017810983	-2.650752343	986.8855148	1.311448524
21A	20.97947995	0.04195896	0.02125637	0.001013219	0.020796367	-2.211940061	986.9737987	1.302620127
24A	23.9828664	0.047965733	0.024299458	0.000994207	0.023383484	-3.917184303	986.9712607	1.302873932
27A	26.9160827	0.026916083	0.027215681	0.001011418	0.026762983	-1.691506485	988.9917175	1.100828248
30A	29.9983748	0.029998375	0.030333168	0.001011127	0.029871728	-1.544736097	988.9628112	1.103718884
35A	35.0424556	0.035042456	0.035433374	0.001012032	0.035003649	-1.227659267	988.9675028	1.103249715
40A	40.008557	0.040008557	0.040459228	0.00101145	0.040006203	-1.132385703	988.8611073	1.113889271
45A	45.013621	0.045013621	0.045521599	0.001009933	0.045000293	-1.158448674	988.8409565	1.115904355
50A	50.0195748	0.050019575	0.050577276	0.001007134	0.049915988	-1.324801151	988.9732949	1.102670507
60A	60.4988782	0.030249439	0.061131341	0.001010454	0.060670901	-0.758913487	989.6540336	1.03459664

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
TURNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb



TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000664826	0.000664826	2.31015E-05	0.001902225	-0.000663561	103.4814355	57.55705443	94.24429456
0.1A	0.099812698	0.099812698	0.000211703	0.002041493	-0.000461059	145.9166964	942.9500841	5.70499159
0.2A	0.199932585	0.199932585	0.000416097	0.001973361	-0.000270287	253.9465039	960.9899852	3.901001479
0.3A	0.300077695	0.300077695	0.00061372	0.00194424	-8.14028E-05	853.9290849	977.8984614	2.210153858
0.4A	0.40023988	0.40023988	0.000808459	0.002020511	0.000143863	-461.9639973	990.1304652	0.986953482
0.5A	0.500008722	0.500008722	0.001010043	0.002079498	0.000374941	-169.3870772	990.0742275	0.992577246
0.6A	0.599807603	0.599807603	0.001217574	0.001986575	0.000526737	-131.1542074	985.2499829	1.475001713
0.7A	0.699389376	0.699389376	0.001415401	0.001939617	0.000691722	-104.6200697	988.2560796	1.174392042
0.8A	0.799571716	0.799571716	0.001609716	0.002009518	0.000941928	-70.89594905	993.4317389	0.656826106
0.9A	0.899190184	0.899190184	0.001809902	0.002064598	0.001191641	-51.8831634	993.6343489	0.636565114
1A	0.999984078	0.999984078	0.002018	0.002010377	0.00134552	-49.9792791	991.0642618	0.893573821
2A	2.0016507	2.0016507	0.004031728	0.002000801	0.003340078	-20.70761841	992.949163	0.705083695
3A	2.9994734	2.9994734	0.006028173	0.00196578	0.005231479	-15.22883734	995.1517895	0.484821051
4A	4.01110505	0.040111051	0.008016818	0.002001243	0.007362369	-8.889111905	1000.672597	-0.067259728
5A	5.00301452	0.050030145	0.01000187	0.001989373	0.009288036	-7.685519071	1000.415866	-0.041586625
7A	7.04173416	0.035208671	0.014057643	0.001994591	0.013380557	-5.060228126	1001.83708	-0.183708033
9A	9.01923936	0.045096197	0.018001958	0.002007187	0.017438475	-3.231263481	1002.028697	-0.202869708
11A	11.0304803	0.022060961	0.022038895	0.002003066	0.021429954	-2.841542678	1001.001207	-0.100120718
13A	12.9888815	0.025977763	0.025961702	0.001998685	0.02529586	-2.632218063	1000.618646	-0.061864588
15A	15.0246763	0.030049353	0.030030615	0.002008645	0.029514421	-1.748956459	1000.623953	-0.062395326
18A	17.9972163	0.035994433	0.036001394	0.001998991	0.035311445	-1.953895696	999.8066464	0.019335363
21A	21.00687785	0.042013756	0.04201768	0.002002525	0.041401975	-1.487137405	999.9066155	0.00933845
24A	23.9627061	0.047925412	0.0479368	0.001993518	0.047105251	-1.765298735	999.7624435	0.023755653
27A	27.02218	0.02702218	0.054035915	0.002006387	0.053552137	-0.903377219	1000.156283	-0.015628309
30A	30.0562167	0.030056217	0.060123368	0.002012695	0.059829164	-0.491740895	999.8181256	0.018187437
35A	35.0252369	0.035025237	0.070124489	0.002009025	0.069701734	-0.606520723	998.9445142	0.105548576
40A	40.0472009	0.040047201	0.080213738	0.002011399	0.079886063	-0.410178068	998.5122723	0.14877277
45A	44.997597	0.044997597	0.090170958	0.002007733	0.089678352	-0.549303279	998.0507649	0.194923513
50A	49.9525749	0.049952575	0.100119233	0.002000299	0.099255254	-0.870461259	997.8617175	0.213828246
60A	60.4365266	0.030218263	0.12109027	0.002003594	0.120425444	-0.55206432	998.2061581	0.17938419

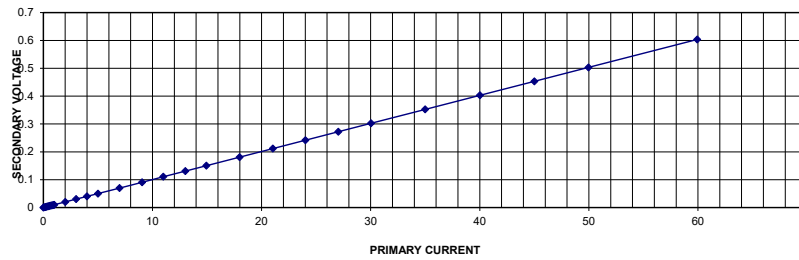
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
TURNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000662519	0.000662519	2.53885E-05	0.009996518	-0.000655896	103.8708076	260.9526415	73.90473585
0.1A	0.099964314	0.099964314	0.001018061	0.010049521	0.000342074	-197.6137894	981.9092309	1.809076913
0.2A	0.200076631	0.200076631	0.002024142	0.010058225	0.001349897	-49.94788196	988.4517955	1.154820445
0.3A	0.30027998	0.30027998	0.003032009	0.010050659	0.002355493	-28.72081786	990.3662731	0.963372689
0.4A	0.400318955	0.400318955	0.004037467	0.010033853	0.003354222	-20.36968443	991.5101646	0.848983538
0.5A	0.499864076	0.499864076	0.005036288	0.010091147	0.004381683	-14.93958561	992.5247862	0.747521375
0.6A	0.600432381	0.600432381	0.006051138	0.010137435	0.005424325	-11.55558774	992.26363	0.773637004
0.7A	0.699617314	0.699617314	0.007056618	0.010055176	0.006372256	-10.73971937	991.43424	0.856576
0.8A	0.799987682	0.799987682	0.00806586	0.010014219	0.007348732	-9.758522632	991.8194317	0.818056833
0.9A	0.898762609	0.898762609	0.009055014	0.010132308	0.00844402	-7.23581641	992.5579617	0.744203831
1A	0.996854001	0.996854001	0.010048906	0.010093615	0.009399341	-6.910750847	992.0025135	0.799748649
2A	2.0095513	2.0095513	0.020270682	0.010068419	0.019570485	-3.577823635	991.3584951	0.864150492
3A	3.00380013	3.00380013	0.030281196	0.009865994	0.028972955	-4.515386293	991.968798	0.803120202
4A	4.00613485	0.040061349	0.040170224	0.010040837	0.039562428	-1.536296237	997.2896467	0.271035332
5A	5.00615951	0.050061595	0.050211309	0.009917577	0.048986454	-2.500394583	997.018331	0.298166895
7A	6.9907773	0.034953887	0.069893909	0.010075114	0.069770359	-0.177079849	1000.198363	-0.01983635
9A	9.05711302	0.045285565	0.090712477	0.010236409	0.09204979	1.452815182	998.4418196	0.155818037
11A	10.9999219	0.021999844	0.110599862	0.010052129	0.109910117	-0.627554082	994.5692247	0.543077531
13A	13.0208638	0.026041728	0.130914631	0.010030745	0.129946447	-0.745063984	994.6072261	0.539277386
15A	14.93933135	0.029878663	0.15015829	0.010098102	0.150196375	0.0253566	994.905327	0.509446731
18A	17.99348	0.03598696	0.180999395	0.010076681	0.18065204	-0.192278219	994.11824	0.588175999
21A	21.03323225	0.042066465	0.211630009	0.010082662	0.211408451	-0.10480115	993.8681357	0.613186431
24A	24.0157608	0.048031522	0.241701836	0.010106722	0.242058089	0.147176729	993.6110208	0.638897919
27A	27.0459067	0.027045907	0.272326677	0.010097537	0.272434512	0.039582082	993.1420233	0.685797668
30A	30.0439624	0.030043962	0.302599654	0.010032373	0.300749718	-0.615108079	992.8617565	0.713824346
35A	35.0033726	0.035003373	0.352354307	0.010093856	0.352656496	0.085689305	993.4140694	0.658593056
40A	40.0145303	0.04001453	0.402936213	0.010053338	0.401617088	-0.3284535	993.0735687	0.692643131
45A	45.0159348	0.045015935	0.453217024	0.010098239	0.453919169	0.154685075	993.2533955	0.674660447
50A	49.9633367	0.049963337	0.503177073	0.010057126	0.501825032	-0.269424802	992.9573381	0.704266619
60A	59.9316752	0.029965838	0.603429905	0.010068631	0.602767386	-0.109912896	993.1837104	0.681628962

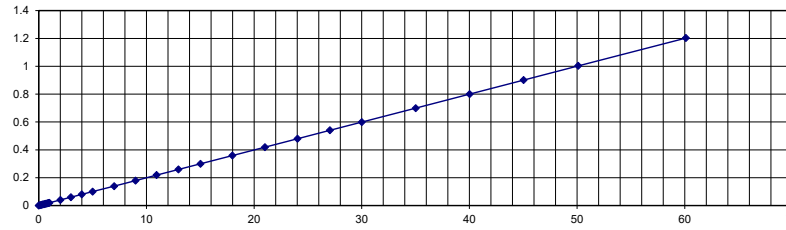
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
URNS/RATIO:	1000
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TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.00069311	0.00069311	2.24947E-05	0.019893856	-0.000679321	103.3113477	616.2431372	38.37568628
0.1A	0.099852157	0.099852157	0.001995151	0.02001652	0.001305583	-52.8168599	1000.948601	-0.094860111
0.2A	0.200156	0.200156	0.004002884	0.020023831	0.00331478	-20.75867394	1000.058853	-0.005885256
0.3A	0.299922169	0.299922169	0.006000585	0.019977059	0.005298453	-13.25164773	999.6430365	0.035696351
0.4A	0.399990834	0.399990834	0.007999663	0.019980145	0.007298765	-9.602970348	1000.019206	-0.001920581
0.5A	0.499905714	0.499905714	0.009995977	0.020013547	0.009311776	-7.347689188	1000.213833	-0.021383303
0.6A	0.598868847	0.598868847	0.01197658	0.020023046	0.011298069	-6.005551084	1000.066533	-0.006653318
0.7A	0.697736799	0.697736799	0.013956218	0.020069177	0.013309894	-4.855967357	999.8938308	0.010616917
0.8A	0.799207271	0.799207271	0.015992647	0.019925016	0.015231107	-4.999894244	999.4684319	0.053156805
0.9A	0.897569267	0.897569267	0.017952511	0.020064438	0.017316113	-3.67517648	999.9373035	0.006269652
1A	0.999315958	0.999315958	0.019994001	0.020192508	0.019485585	-2.609188923	999.6157878	0.038421224
2A	2.01433513	2.01433513	0.040489784	0.019884907	0.039361756	-2.865795015	994.9843866	0.501561336
3A	3.00262759	3.00262759	0.060141887	0.019991056	0.059332586	-1.364008666	998.5145893	0.148541065
4A	4.00446697	0.04004467	0.080169714	0.020089526	0.079754732	-0.520323172	998.9974431	0.10025569
5A	5.0111656	0.050111656	0.100393812	0.019523469	0.097142225	-3.34724374	998.3016882	0.169831184
7A	7.00502932	0.035025147	0.139320948	0.01995299	0.139078169	-0.174562895	1005.595988	-0.559598834
9A	9.00381994	0.0450191	0.179202797	0.020246017	0.181598378	1.319164064	1004.874934	-0.487493396
11A	10.9557488	0.021911498	0.218721581	0.01992819	0.217635136	-0.499204629	1001.798611	-0.179861081
13A	12.9860995	0.025972199	0.259182796	0.019977143	0.258732054	-0.174211883	1002.080362	-0.208036185
15A	15.02357465	0.030047149	0.299885728	0.019881568	0.297999114	-0.633093811	1001.953294	-0.195329402
18A	17.9830754	0.035966151	0.358725244	0.019948065	0.358034452	-0.192940027	1002.609975	-0.260997523
21A	21.0087975	0.042017595	0.419082546	0.02001042	0.419701757	0.147535838	1002.609042	-0.260904209
24A	24.03598645	0.048071973	0.479657869	0.020141284	0.483422518	0.778749294	1002.213786	-0.221378626
27A	27.0464626	0.027046463	0.540292724	0.019964029	0.539263251	-0.190903635	1001.178117	-0.117811692
30A	30.0100634	0.030010063	0.599458136	0.01999997	0.599507271	0.00819585	1001.239673	-0.123967289
35A	35.0155655	0.035015565	0.69956803	0.020110627	0.703491883	0.55776812	1001.062484	-0.106248423
40A	40.0277293	0.040027729	0.800365789	0.020067148	0.802549264	0.272067453	1000.235888	-0.023588839
45A	45.035819	0.045035819	0.900863867	0.020101969	0.904615527	0.414724232	999.8362827	0.01637173
50A	50.1134904	0.05011349	1.00293506	0.019978146	1.000381296	-0.255279065	999.3366948	0.066330516
60A	60.1135334	0.030056767	1.20269738	0.020007098	1.20200427	-0.057662854	999.6452042	0.035479582

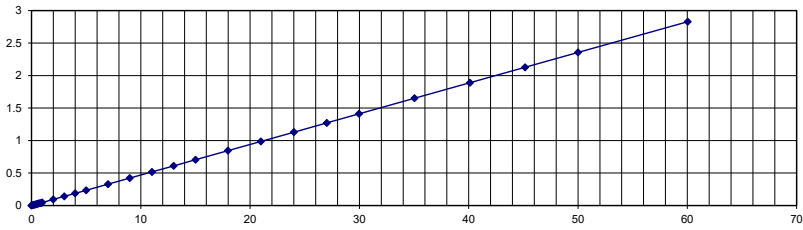
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
URNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000718496	0.000718496	2.79729E-05	0.047031302	-0.000684705	104.085396	1207.216217	-20.72162171
0.1A	0.100009421	0.100009421	0.004697754	0.046989573	0.003980904	-18.00723951	1000.572275	-0.057227492
0.2A	0.200209794	0.200209794	0.009406127	0.04714394	0.008720182	-7.866177956	1000.396892	-0.039689215
0.3A	0.300236311	0.300236311	0.014121771	0.047172951	0.013444536	-5.037250122	999.2448126	0.075518735
0.4A	0.400423758	0.400423758	0.018847909	0.04712781	0.018152598	-3.83036259	998.5148446	0.148515543
0.5A	0.501365461	0.501365461	0.02360507	0.047130004	0.02291086	-3.030049389	998.2675996	0.17324004
0.6A	0.600884152	0.600884152	0.028295386	0.047159563	0.027618938	-2.44922065	998.0975253	0.190247467
0.7A	0.699845355	0.699845355	0.032962354	0.046742126	0.031993763	-3.027434773	997.8878385	0.211216153
0.8A	0.79715898	0.79715898	0.037510999	0.047568478	0.037201143	-0.832921036	998.8129578	0.118704223
0.9A	0.903470607	0.903470607	0.042568082	0.047268294	0.041987018	-1.383912019	997.534233	0.246576701
1A	0.994202434	0.994202434	0.04685682	0.047179687	0.046187663	-1.448778349	997.240406	0.275959405
2A	2.00262909	2.00262909	0.094434074	0.047203538	0.093812681	-0.662376585	996.711917	0.328808295
3A	2.99911514	2.99911514	0.141471741	0.045580114	0.135981514	-4.037480343	996.3715056	0.36284944
4A	3.99663842	0.039966384	0.186938966	0.047038159	0.187276015	0.179974568	1004.830666	-0.483066618
5A	5.01009442	0.050100944	0.23461007	0.047401839	0.236769193	0.911910297	1003.684274	-0.368427383
7A	7.00329538	0.035016477	0.329091461	0.04702464	0.328608948	-0.14683504	1000.192718	-0.019271804
9A	8.99678964	0.044983948	0.422834811	0.046819396	0.420505758	-0.553869509	1000.033824	-0.003382427
11A	11.02901525	0.022058031	0.517982386	0.046357859	0.51056304	-1.453169409	1000.736185	-0.073618478
13A	13.00739815	0.026014796	0.609695982	0.047759792	0.620512128	1.743099878	1002.709106	-0.270910601
15A	15.018072	0.030036144	0.705725346	0.046951073	0.704396098	-0.188707432	1000.17576	-0.017575959
18A	17.9806585	0.035961317	0.844821961	0.047030899	0.844928029	0.012553536	1000.318397	-0.031839667
21A	20.98474935	0.041969499	0.986107053	0.047068305	0.986998092	0.090277681	1000.178648	-0.01786484
24A	24.01626655	0.048032533	1.12879543	0.047627362	1.143112928	1.252500764	999.9726238	0.002737622
27A	27.0212163	0.027021216	1.27191326	0.047311476	1.27769513	0.452523441	998.4935341	0.150646586
30A	29.9797653	0.029979765	1.41188658	0.047219123	1.41489972	0.212957837	997.9901991	0.200980089
35A	35.0445267	0.035044527	1.65104017	0.047138715	1.651235467	0.011827347	997.6091344	0.239086557
40A	40.1162099	0.04011621	1.8901128	0.047083472	1.888091935	-0.107032141	997.5393348	0.246066515
45A	45.1574741	0.045157474	2.12747302	0.047148621	2.128394126	0.043277028	997.6160744	0.238392556
50A	49.9989031	0.049998903	2.35573972	0.047104378	2.354448711	-0.054832759	997.5416324	0.245836764
60A	60.0418922	0.030020946	2.82880847	0.047113913	2.828089974	-0.025405713	997.5821846	0.241781537

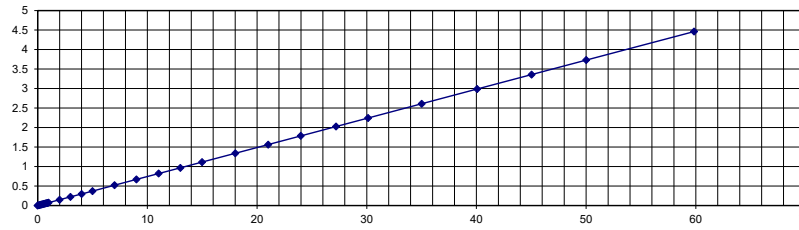
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
TURNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000659688	0.000659688	4.2688E-05	0.073956021	-0.0006109	106.9877238	1159.027975	-15.90279746
0.1A	0.10020066	0.10020066	0.007404342	0.074519267	0.006807191	-8.772352287	1014.951666	-1.495166569
0.2A	0.200265218	0.200265218	0.01486108	0.074617592	0.01428362	-4.042811946	1010.686407	-1.068640719
0.3A	0.300371341	0.300371341	0.022330758	0.074640754	0.021760255	-2.621763654	1008.826077	-0.882607651
0.4A	0.40203179	0.40203179	0.02991877	0.074594287	0.029329587	-2.008837275	1007.808277	-0.780827716
0.5A	0.499873576	0.499873576	0.037217209	0.074347811	0.036504818	-1.951497359	1007.343638	-0.734363782
0.6A	0.5966888	0.5966888	0.044415209	0.074757823	0.043947467	-1.064318935	1007.575142	-0.757514174
0.7A	0.698197766	0.698197766	0.052003798	0.074565536	0.051401803	-1.171155998	1006.942467	-0.6942467
0.8A	0.800974814	0.800974814	0.059667424	0.07475346	0.059215951	-0.762417809	1006.799146	-0.679914644
0.9A	0.8989377	0.8989377	0.066990488	0.074344895	0.066171741	-1.237306983	1006.416423	-0.641642286
1A	0.999036433	0.999036433	0.074432318	0.074734481	0.074002781	-0.580434211	1006.655906	-0.66559055
2A	2.00305152	2.00305152	0.149466864	0.074603333	0.14877463	-0.465290084	1005.09812	-0.509811994
3A	2.99351982	2.99351982	0.2233591	0.072412083	0.216107318	-3.355639219	1005.170537	-0.517053704
4A	4.01665619	0.040166562	0.297446536	0.074127141	0.297083551	-0.122182966	1012.784409	-1.278440926
5A	5.00749237	0.050074924	0.370894389	0.075294171	0.3763753	1.456235676	1012.584549	-1.258454937
7A	7.01710062	0.035085503	0.522206177	0.074707974	0.52357368	0.261186381	1007.806054	-0.780605378
9A	9.00672784	0.045033639	0.670847195	0.07390577	0.664989467	-0.880875254	1006.942554	-0.694255418
11A	11.0355777	0.022071155	0.820790906	0.074351433	0.819851332	-0.114603026	1008.379018	-0.837901766
13A	13.01246205	0.026024924	0.967775091	0.074368013	0.967051253	-0.074850052	1008.431259	-0.843125931
15A	14.9902699	0.02998054	1.11486073	0.074453816	1.115423103	0.050417881	1008.440079	-0.844007888
18A	18.0219109	0.036043822	1.34057797	0.074480209	1.341616003	0.07737185	1008.254162	-0.825416182
21A	21.0171776	0.042034355	1.56366606	0.074745741	1.570284829	0.42150115	1008.072222	-0.807222227
24A	23.9971724	0.047994345	1.78640798	0.074770935	1.79363133	0.402722126	1007.489862	-0.748986242
27A	27.2068732	0.027206873	2.02640031	0.074822377	2.035023232	0.423725974	1006.965642	-0.696564244
30A	30.1315488	0.030131549	2.24523149	0.074935704	2.257269146	0.533284023	1006.518112	-0.651811186
35A	35.0156701	0.03501567	2.61122656	0.074743648	2.61653924	0.203042244	1005.72478	-0.572477997
40A	40.0639285	0.040063929	2.98855181	0.074534327	2.985478249	-0.102950383	1005.435016	-0.54350162
45A	45.0315961	0.045031596	3.35881357	0.074643285	3.360646567	0.054542975	1005.524611	-0.552461073
50A	50.0096297	0.05000963	3.73039035	0.074373215	3.718717245	-0.313901376	1005.450335	-0.545033511
60A	59.8436572	0.029921829	4.46177859	0.074557251	4.461118902	-0.014787508	1005.938372	-0.593837176

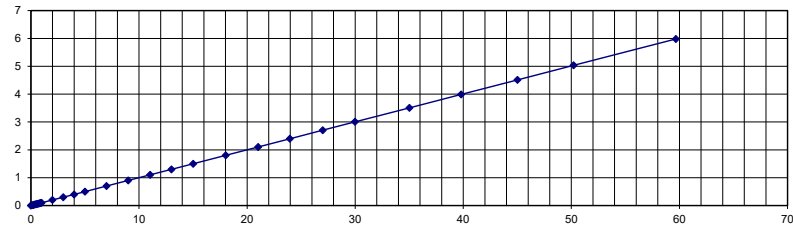
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
URNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR		Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000627399	0.000627399	5.38801E-05	0.099243883	-0.000565133	109.5340454	1164.435836	-16.44358364	
0.1A	0.100082654	0.100082654	0.009924206	0.100075871	0.00938846	-5.706428093	1008.470158	-0.847015788	
0.2A	0.199917518	0.199917518	0.019915267	0.100170514	0.019398442	-2.6642599	1003.840521	-0.384052098	
0.3A	0.299701525	0.299701525	0.029910682	0.100169105	0.029393435	-1.759737677	1001.988266	-0.198826626	
0.4A	0.402371602	0.402371602	0.040195052	0.099953753	0.039591153	-1.525338006	1001.047602	-0.104760159	
0.5A	0.49727445	0.49727445	0.049680948	0.10004908	0.049124453	-1.132826578	1000.93592	-0.093592015	
0.6A	0.597974451	0.597974451	0.05975589	0.100063647	0.059208105	-0.925185283	1000.695413	-0.069541262	
0.7A	0.697494337	0.697494337	0.069714213	0.100448411	0.069434799	-0.402411993	1000.505218	-0.050521836	
0.8A	0.801824389	0.801824389	0.080194001	0.098823454	0.078611657	-2.01286112	999.8558271	0.014417288	
0.9A	0.890655028	0.890655028	0.088972551	0.101014332	0.089341524	0.412991552	1001.044721	-0.104472108	
1A	0.98939279	0.98939279	0.09894648	0.100422833	0.098730228	-0.219033833	999.9272192	0.007278076	
2A	1.99791395	1.99791395	0.200225032	0.100207981	0.199579525	-0.323433321	997.8342518	0.216574819	
3A	2.99947448	2.99947448	0.300589391	0.098009355	0.293349161	-2.468126891	997.8643857	0.213561429	
4A	4.00169705	0.040016971	0.398816579	0.099817344	0.398811371	-0.001305846	1003.392853	-0.339285293	
5A	4.99810399	0.04998104	0.498275273	0.101283859	0.505599861	1.448692671	1003.080879	-0.308087935	
7A	7.0009236	0.035004618	0.701128572	0.100202536	0.700882897	-0.035052216	998.5220799	0.147792009	
9A	9.00396482	0.045019824	0.901838381	0.099226364	0.89280329	-1.011991252	998.4011559	0.159884413	
11A	11.0236078	0.022047216	1.10224021	0.099563179	1.096918038	-0.485193264	1000.109386	-0.010938632	
13A	13.00855115	0.026017102	1.29986748	0.099872906	1.298574403	-0.099576668	1000.759797	-0.075979668	
15A	15.0126134	0.030025227	1.500019	0.100657687	1.510507548	0.694372457	1000.828216	-0.082821618	
18A	18.0226603	0.036045321	1.80300336	0.09992353	1.800260435	-0.152362668	999.5910546	0.040894544	
21A	21.02206465	0.042044129	2.10271443	0.100202636	2.105838887	0.14837115	999.7584242	0.024157584	
24A	23.96103325	0.047922067	2.39720683	0.101574977	2.433214006	1.479819537	999.5396705	0.046032949	
27A	26.9994805	0.026999481	2.70583704	0.100074678	2.701336908	-0.166589059	997.8235977	0.217640232	
30A	29.9922111	0.029992211	3.00533359	0.099745328	2.990955549	-0.480717315	997.9661226	0.203387738	
35A	35.0274813	0.035027481	3.50757827	0.100892016	3.53336581	0.729829325	998.6229416	0.137705837	
40A	39.8075742	0.039807574	3.98985148	0.099977055	3.979216638	-0.26725968	997.7207021	0.227929788	
45A	45.0143836	0.045014384	4.51041295	0.100784625	4.536130363	0.566946078	998.0102509	0.198974908	
50A	50.2080889	0.050208089	5.03385859	0.100057034	5.023045076	-0.215278058	997.4076149	0.25923851	
60A	59.671161	0.029835581	5.98070552	0.100227738	5.980078121	-0.01049148	997.7277898	0.227221019	

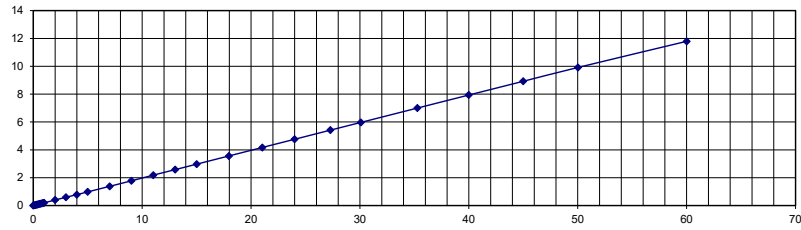
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
URNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.0004233	0.0004233	6.40588E-05	0.195902588	-0.000340375	118.8200933	1321.598564	-32.1598564
0.1A	0.100477351	0.100477351	0.019664906	0.197814144	0.019452541	-1.09170954	1021.895039	-2.189503949
0.2A	0.199051858	0.199051858	0.039164338	0.198202523	0.03902928	-0.346041708	1016.495456	-1.649545564
0.3A	0.30083209	0.30083209	0.059337437	0.198441175	0.059274173	-0.106730448	1013.970627	-1.397062706
0.4A	0.399769216	0.399769216	0.078970636	0.198255379	0.078833097	-0.174468381	1012.450285	-1.245028464
0.5A	0.500366845	0.500366845	0.098914657	0.197934024	0.098616323	-0.302520047	1011.714256	-1.171425581
0.6A	0.605803526	0.605803526	0.119784164	0.198293715	0.119703732	-0.067192747	1011.491846	-1.149184628
0.7A	0.699267058	0.699267058	0.138317395	0.198284419	0.138230462	-0.062889716	1011.105014	-1.110501394
0.8A	0.799878574	0.799878574	0.158267091	0.196365935	0.156645604	-1.035130728	1010.795825	-1.079582489
0.9A	0.896436569	0.896436569	0.177227792	0.193289928	0.17284886	-2.533387847	1011.620761	-1.162076092
1A	0.990098071	0.990098071	0.195331617	0.199044121	0.1966499	0.670370621	1013.761199	-1.376119873
2A	1.99852886	1.99852886	0.396053837	0.198470716	0.396226154	0.043489461	1009.220804	-0.922080449
3A	3.00377116	3.00377116	0.595564996	0.188941214	0.567112868	-5.017013283	1008.713131	-0.871313129
4A	3.9991018	0.039991018	0.783623975	0.196510412	0.785441844	0.231445369	1020.668567	-2.066856747
5A	5.00237221	0.050023722	0.980777057	0.198790836	0.994002452	1.330519311	1020.083448	-2.008344798
7A	7.0152871	0.035076436	1.38092609	0.197273504	1.383506966	0.186545938	1016.026441	-1.602644063
9A	9.01972486	0.045098624	1.77634855	0.203644679	1.836395675	3.269835873	1015.535477	-1.53547698
11A	11.0295018	0.022059004	2.18562893	0.196820709	2.170411065	-0.701151299	1009.274873	-0.927487266
13A	13.0260822	0.026052164	2.5785973	0.198916169	2.590675063	0.466201401	1010.323109	-1.032310861
15A	15.01532155	0.030030643	2.97428917	0.199250563	2.991387975	0.571601064	1009.674628	-0.967462757
18A	17.96382905	0.035927658	3.56178095	0.198394328	3.563498485	0.048198009	1008.69926	-0.869926041
21A	21.0325808	0.042065162	4.17060389	0.198408725	4.172624235	0.048419041	1008.610808	-0.861080816
24A	24.0009359	0.048001872	4.75955144	0.199397345	4.78529959	0.538067668	1008.537725	-0.853772472
27A	27.2873256	0.027287326	5.41484882	0.198408175	5.413605167	-0.022972732	1007.870266	-0.78702659
30A	30.0904914	0.030090491	5.97101983	0.198580562	5.974963382	0.066001268	1007.884491	-0.788449065
35A	35.2821222	0.035282122	7.00197679	0.198199609	6.992479535	-0.135820994	1007.77604	-0.777603977
40A	39.9997704	0.03999977	7.93701282	0.197293418	7.891268138	-0.57968733	1007.930094	-0.793009428
45A	44.9878484	0.044987848	8.92112778	0.1977344	8.895221922	-0.291233414	1008.568636	-0.856863637
50A	50.0240601	0.05002406	9.91696008	0.187919373	9.400066706	-5.498826658	1008.858757	-0.85875705
60A	60.0024726	0.030001236	11.7920971	0.196528653	11.7916738	-0.003589822	1017.672634	-1.767263433

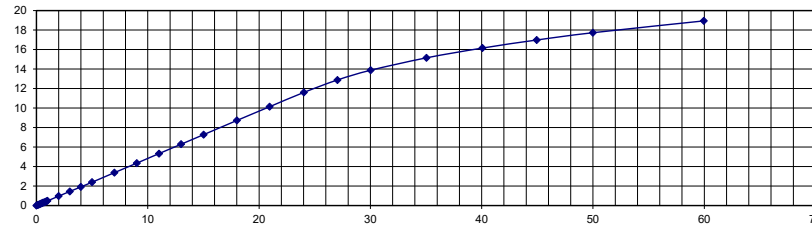
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
TURNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR		Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.00058207	0.00058207	0.00027089	0.472286186	-0.000307167	188.1900465		1074.365292	-7.436529202
0.1A	0.100258266	0.100258266	0.047346581	0.48121319	0.04766353	0.664972096		1058.76987	-5.876987028
0.2A	0.200922067	0.200922067	0.095787329	0.481609687	0.096183943	0.412349558		1048.792509	-4.879250867
0.3A	0.301177911	0.301177911	0.144071515	0.481688149	0.14449176	0.290843665		1045.237537	-4.523753707
0.4A	0.400867449	0.400867449	0.192090784	0.481757013	0.192538635	0.232603027		1043.432279	-4.34327887
0.5A	0.500386131	0.500386131	0.240034607	0.481614713	0.240411253	0.156667251		1042.320801	-4.232080793
0.6A	0.598845106	0.598845106	0.287453898	0.481348377	0.287671049	0.075486024		1041.636781	-4.1636781
0.7A	0.699710509	0.699710509	0.336005296	0.482680917	0.33715484	0.340954285		1041.219465	-4.121946489
0.8A	0.801395627	0.801395627	0.385086762	0.482447158	0.386048973	0.249245797		1040.53905	-4.053905
0.9A	0.899918792	0.899918792	0.432618983	0.481369442	0.432611336	-0.001767577		1040.082414	-4.008241358
1A	0.995932984	0.995932984	0.478837281	0.484384877	0.481832806	0.621693905		1039.949293	-3.994929334
2A	2.00283914	2.00283914	0.966567396	0.483290346	0.967370751	0.083045152		1036.057676	-3.6057676
3A	3.00263518	3.00263518	1.44975917	0.466353086	1.399706113	-3.575969034		1035.563438	-3.556343775
4A	3.99592212	0.039959221	1.9129816	0.480870295	1.920938179	0.414202785		1044.422518	-4.442251823
5A	4.9993903	0.049993903	2.39551964	0.487838461	2.438312798	1.755031509		1043.487646	-4.348764596
7A	7.0161942	0.035080971	3.37939415	0.485296255	3.404350699	0.733078079		1038.084622	-3.808462236
9A	9.02165198	0.04510826	4.3526353	0.490747894	4.426774644	1.674793716		1036.343658	-3.634365829
11A	11.0149161	0.022029832	5.33082547	0.484582062	5.337048687	0.116604087		1033.134189	-3.313418925
13A	13.00207775	0.026004156	6.29376836	0.485148855	6.307361063	0.215505392		1032.932657	-3.293265706
15A	15.0205265	0.030041053	7.27301646	0.487149736	7.316663456	0.596542346		1032.620137	-3.262013654
18A	18.0162744	0.036032549	8.73239426	0.479684941	8.641553448	-1.05120928		1031.577014	-3.157701448
21A	20.9588703	0.041917741	10.1439132	0.476667389	9.989827922	-1.542421743		1033.076185	-3.307618504
24A	24.0233088	0.048046618	11.6046311	0.423200938	10.16610476	-14.15022151		1035.074213	-3.507421274
27A	27.0442754	0.027044275	12.883107	0.334423144	9.043649537	-42.4547352		1049.602219	-4.96022194
30A	30.0276682	0.030027668	13.8808226	0.253743222	7.618735214	-82.19326712		1081.624233	-8.162423313
35A	35.0428193	0.035042819	15.1533832	0.199184088	6.979389936	-117.1161568		1156.270479	-15.62704789
40A	40.0801278	0.040080128	16.1567349	0.169421539	6.789854868	-137.9540537		1240.353575	-24.03535754
45A	44.9457736	0.044945774	16.9810801	0.148167272	6.65891058	-155.0128868		1323.407384	-32.34073844
50A	49.9955811	0.049995581	17.7292963	0.121710729	6.084416536	-191.3886023		1409.970826	-40.99708261
60A	59.9584678	0.029979234	18.9418865	0.315916787	18.94130443	-0.003073021		1582.695256	-58.26952558

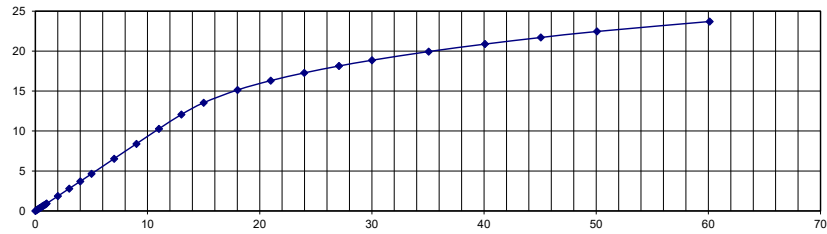
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1000
Lot #:	30963
TURNS/RATIO:	1000
DATE:	June 8, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000649969	0.000649969	0.000366015	0.895815596	-6.77166E-05	640.5094762	1775.799686	-77.57996861
0.1A	0.100208779	0.100208779	0.08955235	0.917712474	0.091312878	1.928017358	1118.996648	-11.89966477
0.2A	0.199991273	0.199991273	0.181123989	0.920308675	0.183403735	1.243020344	1104.167781	-10.41677809
0.3A	0.299819253	0.299819253	0.272996545	0.920821752	0.275430121	0.883554839	1098.252921	-9.825292111
0.4A	0.400691705	0.400691705	0.365882093	0.922466748	0.368974805	0.838190634	1095.138879	-9.513887852
0.5A	0.499771813	0.499771813	0.457280198	0.922735345	0.460507147	0.700738174	1092.922491	-9.292249082
0.6A	0.59991099	0.59991099	0.549682156	0.924949275	0.554237266	0.821870115	1091.37796	-9.137795988
0.7A	0.698583974	0.698583974	0.640949661	0.927307152	0.647151947	0.958397136	1089.920186	-8.992018642
0.8A	0.798608945	0.798608945	0.733703532	0.925941897	0.738815513	0.691915713	1088.462724	-8.846272393
0.9A	0.899616744	0.899616744	0.827230885	0.924881568	0.831388976	0.500137857	1087.503816	-8.750381582
1A	0.996525263	0.996525263	0.916859788	0.929908679	0.926027522	0.99006686	1086.889485	-8.688948522
2A	2.00285478	2.00285478	1.85265434	0.931727302	1.865464512	0.686701451	1081.073105	-8.107310509
3A	3.00831175	3.00831175	2.78946605	0.919358016	2.765065552	-0.882456385	1078.454334	-7.845433358
4A	3.99787371	0.039978737	3.69922777	0.935027431	3.737471615	1.023254467	1080.731969	-8.073196855
5A	5.00024811	0.050002481	4.63647533	0.943884802	4.719008231	1.748945898	1078.458906	-7.845890555
7A	7.01596836	0.035079842	6.53908304	0.936063197	6.566739807	0.421164347	1072.92847	-7.29284698
9A	9.0003832	0.045001916	8.39662074	0.93352504	8.401433118	0.057280445	1071.90541	-7.190541037
11A	11.00570355	0.022011407	10.2686375	0.895869573	9.859024966	-4.154696186	1071.778369	-7.177836884
13A	13.01785605	0.026035712	12.0712637	0.740291602	9.636359547	-25.267884	1078.417005	-7.841700534
15A	15.00473905	0.030009478	13.5421365	0.529796699	7.948811242	-70.36681445	1108.003826	-10.80038257
18A	18.02483035	0.036049661	15.1421709	0.395131264	7.121524029	-112.6254273	1190.372931	-19.03729306
21A	20.9720593	0.041944119	16.3067132	0.323460107	6.782974574	-140.4065211	1286.099721	-28.60997212
24A	23.9677737	0.047935547	17.2757073	0.278872078	6.683292876	-158.4909508	1387.368591	-38.73685913
27A	27.0621778	0.027062178	18.1386502	0.245395348	6.640282557	-173.1608187	1491.962053	-49.19620535
30A	30.005831	0.030005831	18.861009	0.214498567	6.435557776	-193.0749697	1590.892142	-59.08921416
35A	35.0605389	0.035060539	19.9452366	0.186133754	6.525299762	-205.6600819	1757.84021	-75.78402103
40A	40.0739579	0.040073958	20.8784031	0.166123161	6.656562583	-213.6514205	1919.397653	-91.93976526
45A	45.0587246	0.045058725	21.7064883	0.150560231	6.783401994	-219.9941315	2075.818252	-107.5818252
50A	50.066913	0.050066913	22.4605223	0.124270858	6.221208258	-261.031513	2229.107246	-122.9107246
60A	60.1139588	0.030056979	23.7090773	0.394402195	23.70842733	-0.002741509	2535.482846	-153.5482846