

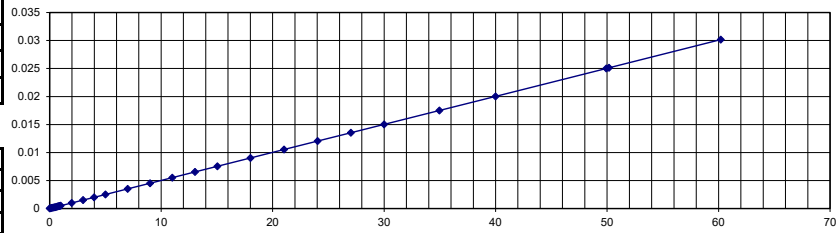
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
TURNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	2000
FREQUENCY(Hz):	60

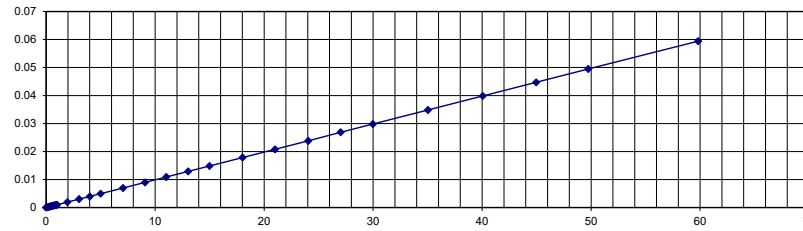


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000610316	0.000610316	2.75107E-05	0.000332188	-0.000610114	104.509118	22.18465582	98.89076721
0.1A	0.100304486	0.100304486	6.0628E-05	0.000497285	-0.000560436	110.817991	1654.425955	17.27870226
0.2A	0.194514758	0.194514758	0.000107477	0.000489581	-0.000515086	120.8659112	1809.82181	9.5089095
0.3A	0.297551156	0.297551156	0.000157922	0.000508758	-0.000458935	134.4105507	1884.16531	5.79173449
0.4A	0.39933284	0.39933284	0.000209704	0.000445916	-0.000432248	148.5148493	1904.266758	4.786662077
0.5A	0.500604697	0.500604697	0.000254863	0.000495296	-0.000362369	170.332427	1964.211165	1.789441772
0.6A	0.601601117	0.601601117	0.000304886	0.000516407	-0.000299645	201.7489491	1973.19986	1.340007016
0.7A	0.703782793	0.703782793	0.000357653	0.0005487	-0.00022415	259.5595444	1967.778973	1.611051338
0.8A	0.801285182	0.801285182	0.000411153	0.000419831	-0.000273912	250.1040962	1948.873561	2.556321949
0.9A	0.900986694	0.900986694	0.000453011	0.000577192	-9.02739E-05	601.8183476	1988.885748	0.555712597
1A	0.999730738	0.999730738	0.000510005	0.000493217	-0.000117232	535.037958	1960.236824	1.988158824
2A	1.98071978	1.98071978	0.000993845	0.000506929	0.000393768	-152.3933494	1992.98577	0.350711482
3A	3.0000485	3.0000485	0.001510573	0.00049023	0.000860398	-75.56676734	1986.033459	0.698327063
4A	3.98475977	0.039847598	0.001993308	0.000504616	0.001400457	-42.33266021	1999.068569	0.046571574
5A	5.00428125	0.050042813	0.002507775	0.000503866	0.001911172	-31.21660033	1995.506395	0.224680235
7A	7.00752764	0.035037638	0.003517143	0.000499774	0.002891864	-21.62201401	1992.391803	0.380409854
9A	9.01295812	0.045064791	0.004519406	0.000501184	0.003906838	-15.67937476	1994.279584	0.286020805
11A	11.008956	0.022017912	0.005519769	0.000503041	0.004927635	-12.01658762	1994.459721	0.277013971
13A	13.0365398	0.02607308	0.006539725	0.000500466	0.005914027	-10.57991204	1993.438406	0.328079677
15A	15.04547925	0.030090959	0.007545131	0.000500643	0.006922092	-9.000728237	1994.064682	0.296765888
18A	18.01385705	0.036027714	0.009031228	0.000502312	0.008438269	-7.027022549	1994.61889	0.269055506
21A	21.0250134	0.042050027	0.010543769	0.000500387	0.009910336	-6.391636757	1994.070014	0.296499291
24A	24.03523805	0.048070476	0.012050048	0.000497047	0.011336327	-6.295871311	1994.617702	0.269114914
27A	27.0227657	0.027022766	0.013534989	0.000500592	0.012917056	-4.783852218	1996.511804	0.174409818
30A	30.0043406	0.030004341	0.015027541	0.000500838	0.014416699	-4.234940088	1996.623453	0.168827356
35A	34.9719418	0.034971942	0.017515503	0.000499193	0.016847424	-3.965468447	1996.627879	0.168606062
40A	39.9940635	0.039994064	0.02002251	0.000501675	0.019453699	-2.923924154	1997.455049	0.127247534
45A	50.1841606	0.050184161	0.025134625	0.000488582	0.023908746	-5.127324693	1996.614646	0.169267693
50A	49.9380951	0.049938095	0.025014402	0.000502215	0.024469365	-2.227426593	1996.373733	0.181313349
60A	60.2032296	0.030101615	0.030169711	0.000501131	0.029559394	-2.064712048	1995.485804	0.22570982

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
URNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb



TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	2000
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	0.000562392	0.000562392	2.21619E-05	0.000837558	-0.000561921	103.9439537	50.75304355	97.46234782
0.1A	0.101506179	0.101506179	0.000106708	0.000958166	-0.000465132	122.9414731	1902.499357	4.875032144
0.2A	0.200121691	0.200121691	0.000201198	0.001056075	-0.000351049	157.3134839	1989.297892	0.535105379
0.3A	0.299611306	0.299611306	0.000306267	0.000928838	-0.000284102	207.8017269	1956.538068	2.173096613
0.4A	0.400475601	0.400475601	0.000399953	0.000995713	-0.000163634	344.4200453	2002.611474	-0.130573723
0.5A	0.500643162	0.500643162	0.000499691	0.00105054	-3.64468E-05	1471.016873	2003.809058	-0.190452915
0.6A	0.600483101	0.600483101	0.000604577	0.000952778	9.73509E-06	-6110.292308	1986.455988	0.677200581
0.7A	0.700837448	0.700837448	0.000700193	0.001022121	0.000153948	-354.8231864	2001.84145	-0.092072503
0.8A	0.800784494	0.800784494	0.000802351	0.000921773	0.000175749	-356.5312478	1996.095879	0.195206029
0.9A	0.900466103	0.900466103	0.000894235	0.001047844	0.000381155	-134.6115738	2013.937153	-0.696857656
1A	1.00110908	1.00110908	0.000999693	0.000990032	0.000428737	-133.1713601	2002.833713	-0.141685646
2A	1.95632219	1.95632219	0.001945384	0.000993018	0.001380271	-40.94211531	2011.245472	-0.562273621
3A	3.03326204	3.03326204	0.003014805	0.000976698	0.002400189	-25.6069991	2012.244401	-0.612220068
4A	4.00346864	0.040034686	0.003962404	0.000983319	0.003374294	-17.42912191	2020.727338	-1.036366916
5A	5.00793537	0.050079354	0.004950115	0.000987439	0.004382638	-12.94828391	2023.361366	-1.168068299
7A	7.06362268	0.035318113	0.00697998	0.000994257	0.006460664	-8.03812338	2023.96634	-1.198316977
9A	9.08389986	0.045419499	0.008988655	0.000992844	0.008456507	-6.292760629	2021.192198	-1.059609898
11A	11.02971795	0.022059436	0.01092055	0.000991496	0.010373526	-5.273264251	2019.993142	-0.999657078
13A	13.0372666	0.026074533	0.012911026	0.00098907	0.012332372	-4.692154322	2019.555487	-0.977774353
15A	14.99804385	0.029996088	0.014850371	0.000991954	0.014314982	-3.740060422	2019.888089	-0.994404443
18A	18.03281565	0.036065631	0.017860726	0.000991014	0.017308381	-3.191201388	2019.270163	-0.963508141
21A	21.00299745	0.042005995	0.020804218	0.000991606	0.0202643	-2.664379699	2019.109543	-0.955477158
24A	24.05014175	0.048100284	0.023825784	0.001025929	0.024111354	1.184382289	2018.833223	-0.941661159
27A	27.018366	0.027018366	0.026870972	0.000996034	0.026348815	-1.981708964	2010.9705	-0.548525003
30A	29.9804924	0.029980492	0.02982135	0.00099434	0.029248401	-1.958906088	2010.673038	-0.533651893
35A	35.0354349	0.035035435	0.03484768	0.00099663	0.034354962	-1.434199391	2010.775736	-0.538786797
40A	40.0586781	0.040058678	0.039853993	0.000993328	0.039229017	-1.593148584	2010.271729	-0.513586425
45A	44.9646303	0.04496463	0.044727213	0.000995503	0.044245007	-1.089853864	2010.616217	-0.530810846
50A	49.7478576	0.049747858	0.049493715	0.000984929	0.048435721	-2.184324761	2010.269696	-0.513484794
60A	59.8174968	0.029908748	0.059411596	0.000993214	0.058849204	-0.955649778	2013.664033	-0.883201645

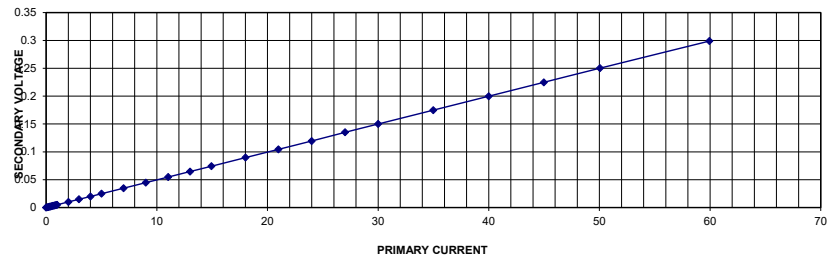
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
TURNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	2000
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	0.000622103	0.000622103	2.40765E-05	0.004636123	-0.000619219	103.888211	258.3855964	87.08072018
0.1A	0.10150945	0.10150945	0.000491803	0.004957396	-0.000118881	513.6944322	2064.028034	-3.201401686
0.2A	0.200265488	0.200265488	0.000981375	0.00496302	0.000371818	-163.9395149	2040.661226	-2.033061301
0.3A	0.299887554	0.299887554	0.001475802	0.004933425	0.00085737	-72.13132739	2032.031443	-1.601572173
0.4A	0.399880323	0.399880323	0.001969109	0.005018088	0.001384531	-42.22202258	2030.768252	-1.53841261
0.5A	0.503245324	0.503245324	0.002487803	0.004967608	0.001877822	-32.48343751	2022.850159	-1.142507944
0.6A	0.599990994	0.599990994	0.002968398	0.005018481	0.00238894	-24.25585921	2021.26209	-1.06310448
0.7A	0.701362299	0.701362299	0.003477128	0.004954136	0.002852541	-21.89579854	2017.073733	-0.853686646
0.8A	0.8002463	0.8002463	0.003967013	0.005047895	0.003417456	-16.08085982	2017.251763	-0.862588152
0.9A	0.901201555	0.901201555	0.004476624	0.0049704	0.003857229	-16.05803351	2013.127622	-0.656381117
1A	0.998270977	0.998270977	0.004959098	0.005097184	0.004466267	-11.03450604	2013.009211	-0.650460539
2A	2.01949975	2.01949975	0.010164489	0.004887613	0.00924843	-9.905023206	1986.818845	0.659057751
3A	2.96858562	2.96858562	0.014803253	0.004874802	0.013849163	-6.889148569	2005.360349	-0.268017445
4A	4.0144826	0.040144826	0.019901793	0.004973329	0.019343239	-2.887592911	2017.146163	-0.85730817
5A	5.00601066	0.050060107	0.024832989	0.004960752	0.024211474	-2.567024263	2015.871211	-0.79356055
7A	6.99803482	0.034990174	0.034714926	0.004968042	0.034144431	-1.670830037	2015.857605	-0.792880266
9A	9.0079704	0.045039852	0.044700372	0.004974391	0.044187066	-1.161663737	2015.189153	-0.759457669
11A	11.03050465	0.022061009	0.054761248	0.004990405	0.054424586	-0.618585113	2014.290209	-0.714510464
13A	13.007431	0.026014862	0.064626912	0.004929679	0.063500361	-1.774086582	2012.695726	-0.634786324
15A	14.94053395	0.029881068	0.07415649	0.005037189	0.074636192	0.642720029	2014.730467	-0.73652332
18A	18.02665535	0.036053311	0.089701867	0.004970739	0.088983704	-0.807072793	2009.618746	-0.480937314
21A	20.9982078	0.041996416	0.10447268	0.004999775	0.104364201	-0.103942313	2009.923341	-0.496167036
24A	23.99979115	0.047999582	0.11947992	0.005156709	0.123137828	2.970580122	2008.688251	-0.434412536
27A	27.020886	0.027020886	0.135058826	0.005003107	0.134566291	-0.366016717	2000.675321	-0.033766027
30A	30.0081315	0.030008132	0.150004336	0.004986707	0.149019643	-0.660780754	2000.484273	-0.024213633
35A	34.9933334	0.034993333	0.174864075	0.004995596	0.174203048	-0.379457529	2001.173391	-0.058669569
40A	39.9962186	0.039996219	0.199858269	0.005008721	0.199707785	-0.075351852	2001.229111	-0.061455551
45A	44.974479	0.044974479	0.224792985	0.00500172	0.224327629	-0.207444889	2000.706517	-0.035325835
50A	50.0484054	0.050048405	0.250171342	0.004922938	0.245763077	-1.793704986	2000.565093	-0.028254635
60A	59.9357534	0.029967877	0.29884614	0.004986108	0.298224037	-0.208602641	2005.572279	-0.278613938

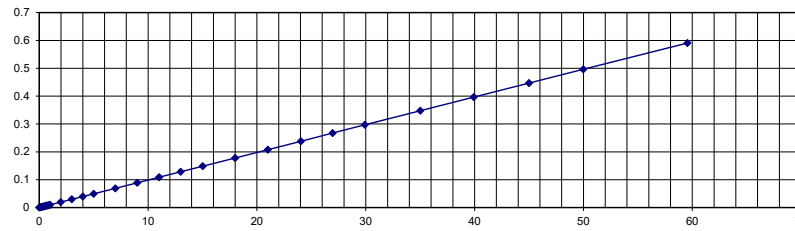
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
TURNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	2000
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	0.000623843	0.000623843	2.58691E-05	0.009242689	-0.000618077	104.185412	482.308036	75.8845982
0.1A	0.100190158	0.100190158	0.00094613	0.009722401	0.000350246	-170.1332386	2117.895108	-5.894755384
0.2A	0.199800859	0.199800859	0.001914585	0.009859395	0.001346072	-42.23493354	2087.14559	-4.357279493
0.3A	0.300353989	0.300353989	0.002905978	0.009917624	0.002354955	-23.39846629	2067.145806	-3.357290296
0.4A	0.400379105	0.400379105	0.003897989	0.009893286	0.003337221	-16.80343576	2054.285306	-2.714265289
0.5A	0.499892779	0.499892779	0.004882506	0.009882219	0.004316207	-13.12031111	2047.689157	-2.38445787
0.6A	0.59994199	0.59994199	0.005871215	0.0099885	0.005368677	-9.360550943	2043.672448	-2.183622396
0.7A	0.701063238	0.701063238	0.006881264	0.009859086	0.006287999	-9.434881029	2037.60009	-1.880004522
0.8A	0.800385465	0.800385465	0.007860491	0.009998448	0.007378769	-6.52848693	2036.477115	-1.823855743
0.9A	0.900216284	0.900216284	0.008858644	0.00997769	0.008358236	-5.987004427	2032.402023	-1.62010114
1A	1.00011066	1.00011066	0.009855359	0.009923382	0.009300637	-5.964342919	2029.577329	-1.478866473
2A	1.9847605	1.9847605	0.019626416	0.009956386	0.019137198	-2.556373255	2022.539938	-1.126996906
3A	2.98928719	2.98928719	0.029627871	0.009662449	0.028259992	-4.840339657	2017.888616	-0.894430785
4A	4.00591897	0.04005919	0.039451024	0.009870625	0.038917082	-1.371997715	2030.831438	-1.541571907
5A	5.00287317	0.050028732	0.049291585	0.009855383	0.048681387	-1.253452622	2029.909624	-1.495481218
7A	7.00170154	0.035008508	0.068990804	0.009877428	0.068534961	-0.66512434	2029.749217	-1.487460846
9A	8.99934122	0.044996706	0.088722347	0.010012373	0.08948092	0.847748496	2028.652653	-1.432632639
11A	11.011364	0.022022728	0.10886747	0.009893906	0.108321552	-0.503979129	2022.89334	-1.144666997
13A	13.00129375	0.026002588	0.128555647	0.009850563	0.127446222	-0.870504796	2022.671746	-1.133587309
15A	15.0186842	0.030037368	0.148428079	0.009880481	0.147767977	-0.446714939	2023.698521	-1.184926068
18A	18.00115465	0.036002309	0.177896321	0.009923084	0.178003125	0.060001305	2023.78043	-1.189021498
21A	21.00684685	0.042013694	0.207722057	0.009919207	0.207747426	0.012211419	2022.591838	-1.129591885
24A	24.04364475	0.04808729	0.237844685	0.010208291	0.244820688	2.849433627	2021.793739	-1.089686953
27A	26.9538252	0.026953825	0.267552655	0.009949216	0.267545592	-0.002639892	2014.842663	-0.74213317
30A	29.9129013	0.029912901	0.296993143	0.009926253	0.29629917	-0.234213669	2014.383295	-0.719164752
35A	35.0079531	0.035007953	0.347567914	0.009957646	0.347972944	0.116397015	2014.452525	-0.722626255
40A	39.9306207	0.039930621	0.396586093	0.009913929	0.395245486	-0.339183461	2013.717647	-0.685882346
45A	44.9978652	0.044997865	0.446822394	0.009926073	0.446028234	-0.178051403	2014.127573	-0.706378651
50A	49.9943769	0.049994377	0.496418132	0.009852384	0.491939932	-0.910314332	2014.204304	-0.710215194
60A	59.5558576	0.029777929	0.590621507	0.009917102	0.589997664	-0.105736592	2016.718216	-0.835910806

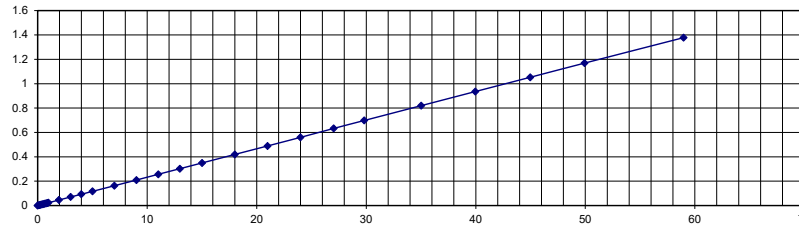
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
TURNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	2000
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	0.000659847	0.000659847	2.64147E-05	0.02190788	-0.000645391	104.0928166	1174.074928	41.2962536
0.1A	0.099798762	0.099798762	0.002198338	0.022926941	0.001628233	-35.01373632	2133.676202	-6.683810114
0.2A	0.199594519	0.199594519	0.00448635	0.023225028	0.003975741	-12.84310891	2090.99675	-4.549837521
0.3A	0.300360517	0.300360517	0.006826643	0.023312963	0.006342446	-7.634220698	2067.919035	-3.39595173
0.4A	0.400684232	0.400684232	0.009165486	0.023345166	0.008694193	-5.420779288	2054.682039	-2.734101927
0.5A	0.50060031	0.50060031	0.011498043	0.023405162	0.011056784	-3.990845719	2046.27989	-2.31399448
0.6A	0.600289041	0.600289041	0.013831274	0.023418945	0.013398289	-3.231647508	2039.839911	-1.991995542
0.7A	0.700518693	0.700518693	0.016178547	0.023398385	0.015731159	-2.843961053	2035.064025	-1.753201255
0.8A	0.80012614	0.80012614	0.0185092	0.023481334	0.018128182	-2.101800452	2031.742494	-1.58712471
0.9A	0.899028812	0.899028812	0.020831567	0.023462606	0.020433712	-1.947052368	2028.380984	-1.419049193
1A	0.996319644	0.996319644	0.023114263	0.023370406	0.022624547	-2.164533968	2025.89295	-1.294647503
2A	1.95609901	1.95609901	0.045544697	0.023411842	0.045136034	-0.905403359	2018.602813	-0.930140637
3A	3.01435047	3.01435047	0.070320313	0.022854539	0.068231742	-3.060996989	2014.701952	-0.735097616
4A	4.00042671	0.040004267	0.092856631	0.023149608	0.091948463	-0.987691525	2024.842538	-1.242126899
5A	5.02173875	0.050217388	0.116499604	0.023238372	0.116037184	-0.398509977	2025.944408	-1.297220397
7A	7.01227258	0.035061363	0.162756369	0.023260496	0.162449089	-0.189154664	2024.970287	-1.248514355
9A	9.01882556	0.045094128	0.209429786	0.023546631	0.211703106	1.073824468	2023.994817	-1.199740833
11A	11.02004395	0.022040088	0.256551736	0.023301263	0.256121098	-0.168138395	2018.860109	-0.943005439
13A	12.9923565	0.025984713	0.30250911	0.023325491	0.302393248	-0.038315094	2018.586334	-0.929316724
15A	15.01576475	0.03003153	0.349706101	0.023325802	0.349594912	-0.03180503	2018.097314	-0.904865719
18A	18.00897005	0.03601794	0.419525016	0.023308527	0.419102722	-0.100761452	2017.571206	-0.878560285
21A	20.9970624	0.041994125	0.489173048	0.023434234	0.491390222	0.451204427	2017.408639	-0.870431929
24A	24.00444965	0.048008899	0.559648864	0.024166315	0.579439239	3.415435687	2015.923209	-0.796160425
27A	27.0252567	0.027025257	0.632650638	0.023406104	0.63189612	-0.11940531	2007.722728	-0.386136408
30A	29.8258098	0.02982581	0.698200675	0.023411118	0.6975957	-0.086722922	2007.750939	-0.387546933
35A	35.0254206	0.035025421	0.819929376	0.023428344	0.819927743	-0.000199206	2007.727515	-0.386375729
40A	39.9583485	0.039958349	0.935499706	0.023353696	0.93251529	-0.320039359	2007.528562	-0.376428098
45A	44.9740763	0.044974076	1.05263549	0.023457966	1.054340511	0.161714428	2008.085046	-0.404252288
50A	49.9262243	0.049926224	1.16880281	0.023116458	1.153457605	-1.330365734	2007.637663	-0.381883155
60A	58.9695904	0.029484795	1.3778534	0.02336549	1.377193553	-0.047912463	2011.513524	-0.575676222

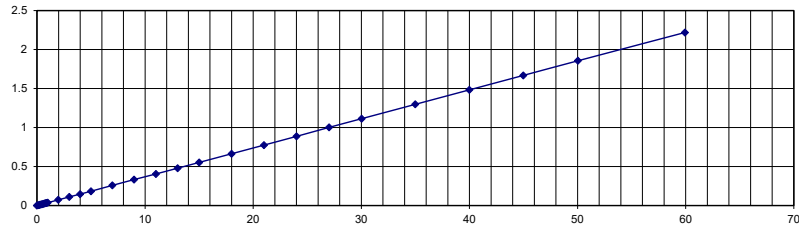
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
TURNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	2000
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	0.000617249	0.000617249	2.5132E-05	0.035094646	-0.000595587	104.2196988	1842.023199	7.898840038
0.1A	0.101023117	0.101023117	0.00354884	0.036354451	0.003055391	-16.15011525	2134.988642	-6.749432093
0.2A	0.200838382	0.200838382	0.007177569	0.036967942	0.006807333	-5.438790074	2098.604375	-4.930218753
0.3A	0.300892151	0.300892151	0.010876351	0.036949597	0.010500595	-3.578430769	2074.860447	-3.743022338
0.4A	0.400177467	0.400177467	0.014544904	0.037135633	0.014243595	-2.115399753	2063.493196	-3.17465979
0.5A	0.500093469	0.500093469	0.018255348	0.037040317	0.017906372	-1.948892969	2054.576587	-2.728829343
0.6A	0.598505262	0.598505262	0.021900552	0.037005769	0.021530899	-1.716848133	2049.623912	-2.481195588
0.7A	0.699309665	0.699309665	0.025630896	0.037134183	0.025351044	-1.103906464	2046.289145	-2.314457249
0.8A	0.80178513	0.80178513	0.029436239	0.037103758	0.029131993	-1.044371314	2042.852171	-2.142608555
0.9A	0.899677448	0.899677448	0.033068412	0.037197409	0.032848421	-0.669714729	2040.491355	-2.024567742
1A	0.998668281	0.998668281	0.036750614	0.037018585	0.036352037	-1.096436367	2038.06446	-1.903222977
2A	1.97738334	1.97738334	0.072981261	0.037142492	0.072827696	-0.210860126	2032.079869	-1.603993464
3A	2.98809273	2.98809273	0.110521526	0.035855474	0.106522231	-3.754422688	2027.722226	-1.386111313
4A	3.99603588	0.039960359	0.146661805	0.036778933	0.146352686	-0.211215363	2043.495176	-2.174758793
5A	5.00269772	0.050026977	0.183685753	0.037920413	0.189087117	2.856547788	2042.63163	-2.131581484
7A	6.97950734	0.034897537	0.258647191	0.037081134	0.258190796	-0.176766548	2023.849741	-1.192487047
9A	8.99153242	0.044957662	0.333255362	0.035670888	0.320118698	-4.10368523	2023.568135	-1.178406771
11A	11.01224555	0.022024491	0.405335994	0.036851386	0.405199267	-0.033743106	2037.614296	-1.880714824
13A	13.01355845	0.026027117	0.479087149	0.037128742	0.482559808	0.719632893	2037.242881	-1.862144057
15A	15.01150305	0.030023006	0.553268319	0.037027116	0.555215415	0.350691993	2034.930774	-1.746538712
18A	18.009882	0.036019764	0.664289644	0.037069525	0.667000522	0.406428237	2033.361745	-1.668087272
21A	21.0013752	0.04200275	0.775182876	0.037160536	0.779805108	0.592741994	2031.91168	-1.595584008
24A	24.00694305	0.048013886	0.886871388	0.038286387	0.918521864	3.445805381	2030.193727	-1.50968636
27A	27.0313494	0.027031349	1.00266498	0.037073942	1.001541444	-0.11218066	2021.962715	-1.09813574
30A	30.0341981	0.030034198	1.11399242	0.037054681	1.112290382	-0.153021015	2022.064798	-1.10323989
35A	35.0008853	0.035000885	1.29803143	0.037102297	1.297995976	-0.002731417	2022.344249	-1.117212451
40A	40.0025986	0.040002599	1.48360648	0.037145685	1.485306683	0.114468172	2022.230919	-1.111545934
45A	44.9867495	0.04498675	1.66874618	0.037178349	1.671915818	0.189581188	2021.88101	-1.094050519
50A	50.0409519	0.050040952	1.85665308	0.036644546	1.833110723	-1.284284482	2021.417697	-1.070884834
60A	59.9357714	0.029967886	2.21924425	0.037027041	2.218627001	-0.027821206	2025.546695	-1.277334728

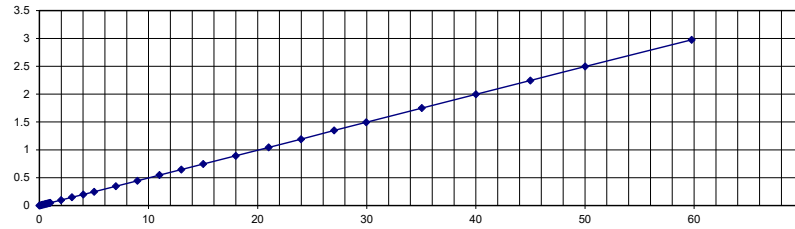
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
URNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	2000
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	0.000580032	0.000580032	3.59509E-05	0.045747631	-0.000553497	106.4952202	1613.403047	19.32984767
0.1A	0.099224197	0.099224197	0.004548688	0.049051054	0.004287019	-6.103738075	2181.38071	-9.0690355
0.2A	0.199450099	0.199450099	0.009464874	0.049720185	0.009336664	-1.373190224	2107.266319	-5.363315957
0.3A	0.300193126	0.300193126	0.014473836	0.049847702	0.014383905	-0.625215037	2074.039875	-3.701993773
0.4A	0.399786547	0.399786547	0.019438339	0.049909101	0.019372955	-0.337501704	2056.690888	-2.834544402
0.5A	0.500215341	0.500215341	0.02445065	0.050026528	0.024444005	-0.027185423	2045.816144	-2.290807216
0.6A	0.601094073	0.601094073	0.029497263	0.050001723	0.029475707	-0.07312927	2037.796128	-1.889806385
0.7A	0.700870637	0.700870637	0.034486263	0.04978585	0.034313408	-0.503751283	2032.318332	-1.615916623
0.8A	0.799160904	0.799160904	0.039379727	0.050154979	0.039501866	0.309198897	2029.371361	-1.468568074
0.9A	0.900089906	0.900089906	0.044441819	0.049807904	0.04425156	-0.429949978	2025.321925	-1.266096239
1A	0.999174226	0.999174226	0.049377001	0.04968456	0.049063499	-0.638972265	2023.561978	-1.178098879
2A	1.99682221	1.99682221	0.098944702	0.049896989	0.099055383	0.111736538	2018.119381	-0.905969073
3A	2.98682147	2.98682147	0.148342684	0.048136475	0.143195025	-3.594858804	2013.460583	-0.673029146
4A	4.0209619	0.040209619	0.198122559	0.049521778	0.198545152	0.212844614	2029.532588	-1.476629423
5A	5.01654408	0.050165441	0.247425559	0.049551421	0.247996854	0.230363982	2027.496311	-1.374815526
7A	7.01074254	0.035053713	0.346240926	0.049560315	0.346874574	0.182673455	2024.816252	-1.24081259
9A	8.99278244	0.044963912	0.444471447	0.050580472	0.454279145	2.158958479	2023.253125	-1.162656237
11A	11.0125624	0.022025125	0.54663287	0.04969646	0.546705335	0.013254835	2014.617672	-0.7308836
13A	13.01203705	0.026024074	0.645999682	0.049608005	0.644921164	-0.167232586	2014.248213	-0.712410645
15A	15.0121646	0.030024329	0.745222019	0.04964596	0.744713297	-0.068311139	2014.455319	-0.722765949
18A	18.00026945	0.036000539	0.893569354	0.049639172	0.892938435	-0.070656532	2014.42332	-0.721166015
21A	21.02067875	0.042041358	1.04349997	0.049941501	1.049224224	0.545570114	2014.439804	-0.721990198
24A	23.9849773	0.047969955	1.19154149	0.051640592	1.238018386	3.754136154	2012.936813	-0.646840674
27A	27.0125406	0.027012541	1.34788665	0.049884446	1.346925596	-0.071351692	2004.066188	-0.203309381
30A	29.9494839	0.029949484	1.49439444	0.04991006	1.49420052	-0.012978146	2004.121743	-0.206087156
35A	35.0560818	0.035056082	1.74926505	0.049891842	1.748432477	-0.047618234	2004.046316	-0.202315824
40A	40.0180092	0.040018009	1.99682475	0.049819209	1.993085514	-0.187610396	2004.082191	-0.204109549
45A	45.0055794	0.045005579	2.24530155	0.049965613	2.248151349	0.126761896	2004.433632	-0.221681582
50A	50.0278854	0.050027885	2.49624415	0.049113105	2.456444742	-1.620203666	2004.126295	-0.206314755
60A	59.7767928	0.029888396	2.97504326	0.049769202	2.974463228	-0.019500396	2009.274742	-0.463737122

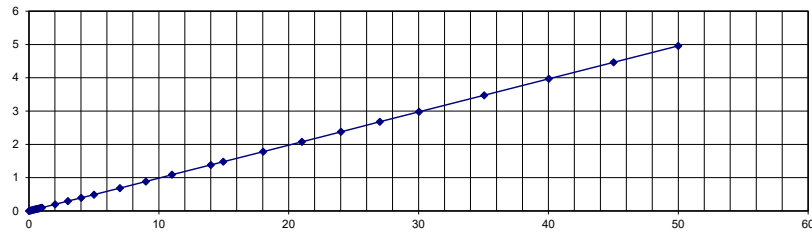
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
URNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	2000
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	0.00054512	0.00054512	5.10455E-05	0.089994082	-0.000496063	110.2901275	2135.821835	-6.791091754
0.1A	0.100406065	0.100406065	0.00903794	0.097721098	0.009266671	2.468319249	2221.879556	-11.09397778
0.2A	0.200663203	0.200663203	0.018835177	0.099282039	0.019377131	2.796876255	2130.728073	-6.536403632
0.3A	0.30026718	0.30026718	0.028724063	0.099005738	0.029183053	1.572797621	2090.701305	-4.535065252
0.4A	0.400135127	0.400135127	0.038611563	0.099662423	0.039333316	1.834966467	2072.618138	-3.630906905
0.5A	0.503060144	0.503060144	0.048869319	0.099326061	0.049421862	1.118013245	2058.797422	-2.939871104
0.6A	0.601141119	0.601141119	0.058611323	0.099346476	0.059176138	0.954463928	2051.280043	-2.564002163
0.7A	0.699897902	0.699897902	0.068422455	0.099170151	0.06886386	0.640982508	2045.813484	-2.290674175
0.8A	0.798875749	0.798875749	0.078238103	0.09900721	0.078549339	0.396230158	2042.165445	-2.10827224
0.9A	0.899145522	0.899145522	0.088165533	0.099021617	0.088489723	0.366358567	2039.675799	-1.983789965
1A	0.999209377	0.999209377	0.098074018	0.099105788	0.098482312	0.414586364	2037.663794	-1.883189696
2A	2.00397564	2.00397564	0.19765217	0.098852417	0.197552714	-0.050343786	2027.780054	-1.389002711
3A	2.99559597	2.99559597	0.295676236	0.095170808	0.284548169	-3.910784872	2026.267657	-1.313382858
4A	4.01506988	0.040150699	0.392700392	0.098006653	0.392958441	0.06566827	2044.851475	-2.242573774
5A	5.00017394	0.050001739	0.489247144	0.09836752	0.491309592	0.419785825	2044.02785	-2.201392513
7A	7.00340274	0.035017014	0.686299794	0.098975422	0.692619621	0.912452746	2040.916463	-2.045823141
9A	8.99991922	0.044999596	0.883905855	0.101195343	0.910204791	2.889342696	2036.397693	-1.819884653
11A	11.00717765	0.022014355	1.08703106	0.09869228	1.085778343	-0.11537502	2025.18181	-1.259090518
13A	13.9937851	0.02798757	1.38178616	0.099296261	1.388985416	0.51831042	2025.463202	-1.273160096
15A	14.95836845	0.029916737	1.47756568	0.09831296	1.470056365	-0.51081815	2024.731442	-1.236572103
18A	18.0230002	0.036046	1.7788587	0.099352185	1.790079333	0.626823202	2026.35546	-1.317773019
21A	21.01188665	0.042023773	2.0758111	0.099280141	2.08551795	0.465440752	2024.450746	-1.222537301
24A	24.02178195	0.048043564	2.37463393	0.101624965	2.440667635	2.705590999	2023.198746	-1.159937313
27A	27.0131844	0.027013184	2.6786351	0.099087787	2.676131545	-0.093551255	2016.936491	-0.846824564
30A	30.0301776	0.030030178	2.97758228	0.099016903	2.972950062	-0.155812173	2017.084653	-0.854232649
35A	35.0428162	0.035042816	3.47391823	0.099187143	3.475251707	0.038370655	2017.480774	-0.874038708
40A	40.0296476	0.040029648	3.96854779	0.099190332	3.970008907	0.036803862	2017.344869	-0.867243431
45A	45.0100457	0.045010046	4.46255513	0.099301875	4.469036802	0.14503509	2017.232029	-0.861601457
50A	49.9865025	0.049986503	4.95672662	0.099161301	4.9561815	-0.010998798	2016.915853	-0.845792661

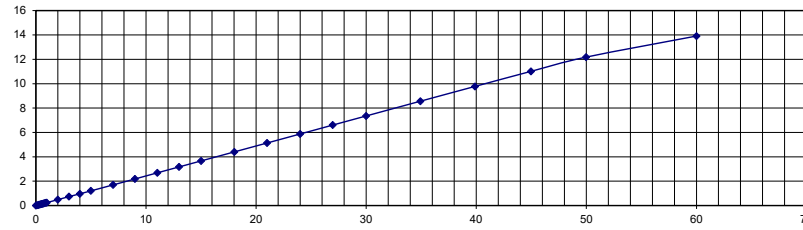
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
TURNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	2000
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	0.000511942	0.000511942	0.000100062	0.222685337	-0.00039794	125.1449352	2558.130078	-27.90650388	
0.1A	0.100363232	0.100363232	0.02233548	0.242798902	0.023856141	6.374294826	2246.722086	-12.33610432	
0.2A	0.200560407	0.200560407	0.046663244	0.243861236	0.048396967	3.582296313	2149.019119	-7.450955939	
0.3A	0.30075237	0.30075237	0.07109618	0.244284931	0.07295733	2.551011999	2115.109211	-5.755460569	
0.4A	0.400186644	0.400186644	0.095386475	0.244178558	0.097205056	1.870871014	2097.711679	-4.885583952	
0.5A	0.500377154	0.500377154	0.119850849	0.243544636	0.12135223	1.237209062	2087.499414	-4.374970677	
0.6A	0.599536082	0.599536082	0.144000474	0.243773763	0.145639225	1.125212509	2081.715655	-4.085782732	
0.7A	0.698899548	0.698899548	0.16822268	0.243333382	0.169553648	0.78498369	2077.304761	-3.865238029	
0.8A	0.799545139	0.799545139	0.192713112	0.243962309	0.194546936	0.942612778	2074.444055	-3.722202748	
0.9A	0.899683005	0.899683005	0.217142977	0.243837248	0.218864286	0.78647309	2071.637355	-3.581867743	
1A	0.999789655	0.999789655	0.241552707	0.244017256	0.243453986	0.780960277	2069.506211	-3.475310566	
2A	1.9953487	1.9953487	0.484486293	0.24441833	0.487187854	0.554521445	2059.241643	-2.962082149	
3A	3.01005129	3.01005129	0.732498205	0.232418689	0.699080232	-4.780277274	2054.647554	-2.732377685	
4A	3.99894601	0.03998946	0.962335819	0.2421274	0.967742458	0.558685683	2077.728965	-3.88644824	
5A	5.00089598	0.05000896	1.20493536	0.243285089	1.216131484	0.920634347	2075.171891	-3.758594569	
7A	7.00924516	0.035046226	1.69353677	0.244710163	1.714721582	1.235466567	2069.410385	-3.470519273	
9A	8.99486012	0.044974301	2.17943693	0.24844554	2.234220934	2.452040573	2063.57431	-3.178715523	
11A	11.02937795	0.022058756	2.68490381	0.245234668	2.704273903	0.716277029	2053.961469	-2.698073474	
13A	13.00831895	0.026016638	3.17020875	0.24609754	3.20080335	0.955841279	2051.650219	-2.582510931	
15A	15.01223565	0.030024471	3.66336772	0.24555386	3.685800468	0.608626208	2048.966524	-2.448326222	
18A	18.0311548	0.03606231	4.40467497	0.245220821	4.421102634	0.371573915	2046.820131	-2.34100656	
21A	20.9988243	0.041997649	5.13240932	0.246357932	5.172714978	0.779197349	2045.708262	-2.285413101	
24A	24.00239705	0.048004794	5.87236329	0.24692491	5.926277787	0.909753121	2043.6744	-2.183720015	
27A	26.9678687	0.026967869	6.60461211	0.246548452	6.648374334	0.658239476	2041.593681	-2.079684056	
30A	29.9919102	0.02999191	7.35018486	0.24590429	7.374627441	0.331441573	2040.214687	-2.010734326	
35A	34.9214279	0.034921428	8.56237441	0.244591154	8.54096041	-0.250721215	2039.237379	-1.961868951	
40A	39.8842315	0.039884232	9.77623227	0.243225767	9.700360854	-0.78215045	2039.856992	-1.992849593	
45A	44.9783757	0.044978376	11.0152594	0.233127119	10.48516718	-5.055639141	2041.639423	-2.08197117	
50A	49.9774848	0.049977485	12.1806873	0.172513241	8.621265918	-41.28652818	2051.505123	-2.57525616	
60A	60.0033964	0.030001698	13.9102898	0.23182504	13.90977786	-0.003680446	2156.798933	-7.839946656	

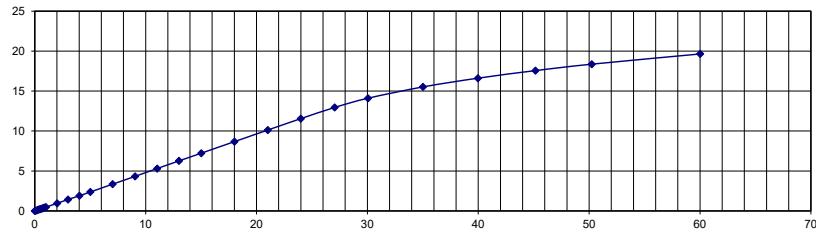
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8348-2000
Lot #:	31384
URNS/RATIO:	2000
DATE:	June 5, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	2000
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	0.000431428	0.000431428	0.000186813	0.427028712	-0.000247196	175.5728636	2309.411165	-15.47055827
0.1A	0.098951967	0.098951967	0.042257912	0.477140615	0.046782574	9.671683399	2341.619894	-17.08099468
0.2A	0.199846009	0.199846009	0.090398557	0.476122564	0.094719766	4.56209854	2210.721226	-10.53606131
0.3A	0.301448276	0.301448276	0.138773689	0.477316737	0.143454879	3.263179542	2172.229319	-8.611465967
0.4A	0.398586668	0.398586668	0.185139475	0.476134535	0.189349455	2.223391805	2152.899483	-7.644974147
0.5A	0.500606291	0.500606291	0.233714535	0.476710385	0.23821279	1.888334681	2141.956173	-7.097808658
0.6A	0.59904302	0.59904302	0.280640346	0.475341024	0.284318294	1.293602398	2134.55773	-6.727886517
0.7A	0.699418375	0.699418375	0.32835287	0.477676328	0.333664173	1.591810943	2130.081503	-6.504075174
0.8A	0.800681777	0.800681777	0.376724	0.477633218	0.382000786	1.38135471	2125.380324	-6.269016176
0.9A	0.898399076	0.898399076	0.423397028	0.477633435	0.428674009	1.231000844	2121.883284	-6.094164175
1A	1.00004392	1.00004392	0.471946004	0.479214142	0.478803761	1.432268875	2118.979526	-5.948976316
2A	2.01020257	2.01020257	0.956028315	0.478642378	0.961736711	0.59355076	2102.660077	-5.133003827
3A	2.99846288	2.99846288	1.42905158	0.459543874	1.377493821	-3.742866842	2098.218792	-4.910939604
4A	4.01726743	0.040172674	1.89723697	0.476081866	1.912116747	0.778183504	2117.430502	-5.871525105
5A	5.003299	0.05003299	2.36666872	0.488684215	2.444601816	3.187966872	2114.068166	-5.703408291
7A	7.01267528	0.035063376	3.34861919	0.480414012	3.36855604	0.591851504	2094.199096	-4.709954792
9A	9.04059802	0.04520299	4.32286169	0.493932265	4.465011628	3.183640946	2091.345657	-4.567282836
11A	11.03161195	0.022063224	5.30628771	0.483638169	5.334877172	0.53589729	2078.969811	-3.948490479
13A	13.0027339	0.026005468	6.25959752	0.481669588	6.262590052	0.047784254	2077.247596	-3.862379797
15A	15.01248605	0.030024972	7.22763401	0.482755698	7.246931749	0.2662884	2077.095496	-3.854774808
18A	17.99923315	0.035998466	8.66950319	0.48268418	8.687513666	0.207314509	2076.155087	-3.807754352
21A	21.0127471	0.042025494	10.1240787	0.478604147	10.05635648	-0.673427003	2075.521904	-3.776095202
24A	23.99425365	0.047988507	11.5510401	0.458888468	11.01025486	-4.91165053	2077.237499	-3.861874958
27A	27.0350762	0.027035076	12.9464385	0.384638952	10.39831195	-24.50519428	2088.224974	-4.4112487
30A	30.0561748	0.030056175	14.1084707	0.285254529	8.573228546	-64.56426683	2130.363768	-6.518188396
35A	35.0066147	0.035006615	15.5206061	0.220548537	7.720226244	-101.0382288	2255.492761	-12.77463803
40A	39.9666154	0.039966615	16.614527	0.182861089	7.307907397	-127.3499936	2405.522312	-20.27611559
45A	45.1557363	0.045155736	17.5634153	0.158425074	7.153369455	-145.5264671	2571.011135	-28.55055674
50A	50.2385567	0.050238557	18.3686615	0.130821204	6.571837023	-179.5057369	2735.014563	-36.75072814
60A	60.0046922	0.030002346	19.6462791	0.32741238	19.64584767	-0.002196027	3054.252253	-52.71261264