

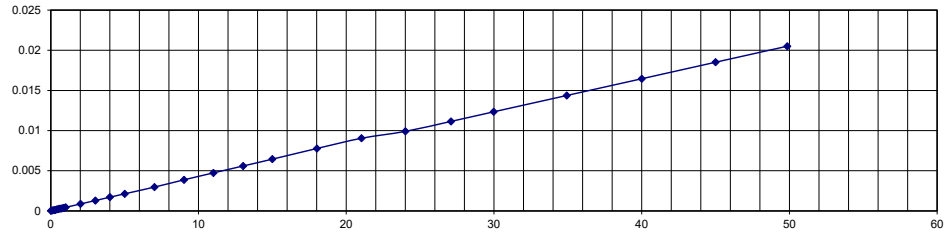
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	1
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60

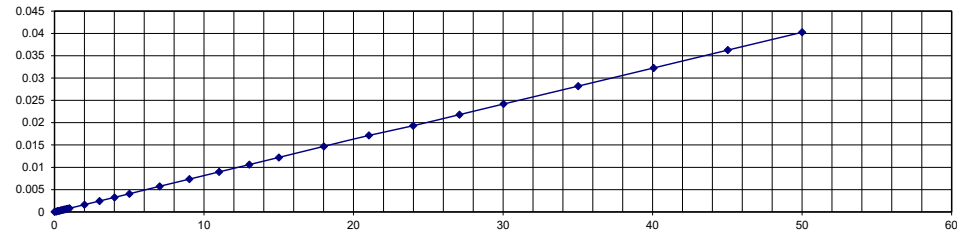


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000934398	0.000934398	2.542E-05	0.000279752	-0.000934136	102.7212307	36.75836174	98.52966553
0.1A	0.098222334	0.098222334	5.26365E-05	0.000425176	-0.000892636	105.8967507	1866.049427	25.35802293
0.2A	0.199483793	0.199483793	9.56904E-05	0.000385245	-0.000857547	111.1586152	2084.678928	16.61284289
0.3A	0.301519384	0.301519384	0.000134999	0.000461346	-0.000795293	116.9747737	2233.490882	10.66036472
0.4A	0.402262209	0.402262209	0.000181476	0.0004782	-0.000742036	124.4565672	2216.608088	11.33567647
0.5A	0.500110818	0.500110818	0.000228268	0.000401095	-0.000733806	131.1073754	2190.896157	12.36415371
0.6A	0.599763315	0.599763315	0.000268238	0.000403516	-0.000692383	138.741229	2235.93878	10.56244879
0.7A	0.69952889	0.69952889	0.000308495	0.00038615	-0.000664275	146.4408651	2267.554537	9.297818514
0.8A	0.801281128	0.801281128	0.000347786	0.000452366	-0.000571925	160.8097626	2303.945646	7.842174149
0.9A	0.900391936	0.900391936	0.000392621	0.000466426	-0.000514432	176.3212876	2293.286282	8.268548715
1A	1.00083788	1.00083788	0.000439471	0.000427053	-0.000506987	186.6829619	2277.367507	8.9052997
2A	2.00750239	2.00750239	0.00086937	0.000421138	-8.89618E-05	1077.23996	2309.145522	7.634179108
3A	3.01587324	3.01587324	0.001294034	0.000423513	0.000342864	-277.4185193	2330.598757	6.776049705
4A	3.99864651	0.039986465	0.001710251	0.000420692	0.000747803	-128.7034405	2338.046489	6.478140429
5A	5.00304732	0.050030473	0.002132795	0.000415714	0.001145439	-86.19896437	2345.770427	6.169182931
7A	7.00931516	0.035046576	0.002966828	0.000451326	0.002229092	-33.09584584	2362.561728	5.497530887
9A	9.01663822	0.045083191	0.003872786	0.000434277	0.002981322	-29.90162621	2328.204406	6.871823763
11A	11.00431055	0.022008621	0.004735987	0.000426678	0.003760895	-25.92713529	2323.55166	7.057933588
13A	13.0190326	0.026038065	0.005595624	0.000429023	0.004651064	-20.30847458	2326.645469	6.934181223
15A	14.99211905	0.029984238	0.006442123	0.000440731	0.005673095	-13.55570007	2327.201716	6.911931352
18A	18.0092783	0.036018557	0.007771879	0.000421778	0.006661527	-16.66812174	2317.236204	7.310551854
21A	21.02987625	0.042059753	0.009045902	0.000289099	0.005145327	-75.80809068	2324.796064	7.008157436
24A	24.0012701	0.04800254	0.00990493	0.000401925	0.008712315	-13.6888397	2423.164096	3.07343614
27A	27.0874974	0.027087497	0.011145362	0.000412763	0.010246319	-8.774298146	2430.382938	2.784682479
30A	29.9754529	0.029975453	0.012337403	0.000410813	0.011379913	-8.413859846	2429.640392	2.814384333
35A	34.9213484	0.034921348	0.014369242	0.00041041	0.013397675	-7.251756919	2430.284643	2.7886143
40A	39.9959871	0.039995987	0.016451925	0.000411698	0.015531857	-5.923745413	2431.082523	2.756699066
45A	44.9958531	0.044995853	0.018510358	0.000410918	0.017555228	-5.440717464	2430.847251	2.766109965
50A	49.8456633	0.049845663	0.020503235	0.000411334	0.019568837	-4.774926704	2431.112189	2.755512453

# CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb



**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	2
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.000874604	0.000874604	2.51085E-05	0.000627772	-0.000874055	102.8726455	69.66597042	97.21336118
0.1A	0.100117752	0.100117752	8.74106E-05	0.000834002	-0.000791106	111.0491694	2290.745847	8.370166112
0.2A	0.19904501	0.19904501	0.000169916	0.00073063	-0.000729176	123.3024855	2342.862092	6.285516312
0.3A	0.299731349	0.299731349	0.000243481	0.000808822	-0.000632175	138.5147516	2462.05579	1.51776838
0.4A	0.40107453	0.40107453	0.000325449	0.000827873	-0.000542565	159.9834011	2464.744639	1.410214447
0.5A	0.501435378	0.501435378	0.000408535	0.000803736	-0.000471582	186.6307244	2454.796498	1.808140097
0.6A	0.603228993	0.603228993	0.00049035	0.000855105	-0.00035878	236.6715484	2460.399663	1.584013478
0.7A	0.700108792	0.700108792	0.000573193	0.000806489	-0.000309974	284.9162314	2442.838816	2.286447377
0.8A	0.801030562	0.801030562	0.000654585	0.000783235	-0.000247209	364.7904288	2447.445319	2.102187231
0.9A	0.899984168	0.899984168	0.000732089	0.000889287	-7.426E-05	1085.845828	2458.674169	1.653033231
1A	1.00082006	1.00082006	0.000821761	0.000802507	-7.14389E-05	1250.298721	2435.793379	2.568264832
2A	2.00042622	2.00042622	0.001623952	0.000817501	0.000760747	-113.4680161	2463.651769	1.453929223
3A	3.00520083	3.00520083	0.002445357	0.000812763	0.001567912	-55.96261415	2457.883288	1.684668498
4A	4.01024689	0.040102469	0.003262221	0.000807909	0.002365311	-37.91934661	2458.59903	1.656038795
5A	5.00857053	0.050085705	0.004068776	0.000828663	0.003275813	-24.20660914	2461.954481	1.521820752
7A	7.02559614	0.035127981	0.00574021	0.000807384	0.004797747	-19.64387048	2447.853222	2.085871105
9A	9.01486616	0.045074331	0.007346314	0.000814822	0.006470904	-13.52840837	2454.255499	1.829780025
11A	11.0088422	0.022017684	0.008971049	0.000811388	0.008057844	-11.33312364	2454.304283	1.827828684
13A	13.0267322	0.026053464	0.010608342	0.000812078	0.009704119	-9.317931232	2455.941244	1.76235025
15A	14.99726515	0.02999453	0.012208568	0.000823059	0.01146903	-6.448131007	2456.842548	1.726298065
18A	18.00368975	0.03600738	0.014683033	0.000812641	0.013755941	-6.739578166	2452.312051	1.907517979
21A	21.0211946	0.042042389	0.017135183	0.000735434	0.014585089	-17.48425385	2453.571079	1.857156833
24A	23.98554035	0.047971081	0.019315262	0.000802819	0.018381455	-5.080161028	2483.58421	0.656631618
27A	27.07394	0.02707394	0.02179469	0.000808284	0.021008834	-3.740597623	2484.452887	0.621884511
30A	30.0244402	0.03002444	0.024179533	0.000802939	0.023233191	-4.073230538	2483.459116	0.661635373
35A	35.0209829	0.035020983	0.028191452	0.000806019	0.027352982	-3.065366664	2484.510785	0.619568591
40A	40.0670075	0.040067008	0.032258645	0.000807017	0.031460145	-2.538129656	2484.109787	0.635608538
45A	45.026452	0.045026452	0.036261	0.000802262	0.035248386	-2.872795121	2483.464445	0.661422191
50A	49.9946536	0.049994654	0.040246797	0.000805022	0.039372193	-2.221375213	2484.404099	0.62383603

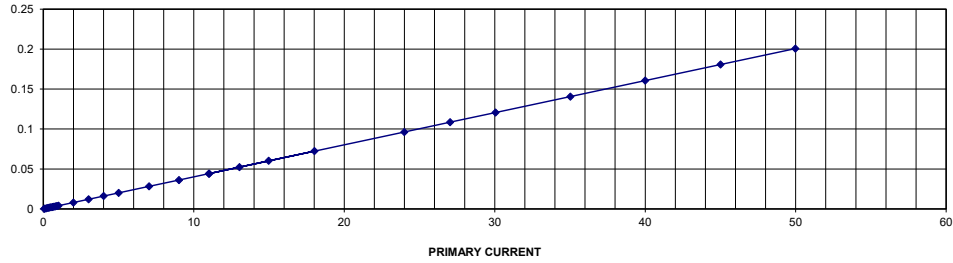
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	10
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.051235107	0.051235107	0.000227463	0.003774184	-0.051041736	100.4456411	2252.459564	9.901617423
0.1A	0.099939555	0.099939555	0.000411282	0.004003866	-0.050834962	100.8090544	2429.949289	2.802028425
0.2A	0.200125804	0.200125804	0.000812415	0.004010848	-0.050432433	101.6108975	2463.345101	1.466195947
0.3A	0.300264452	0.300264452	0.001214056	0.003992186	-0.0500036395	102.4263454	2473.234462	1.07062151
0.4A	0.400979227	0.400979227	0.001616128	0.004083058	-0.049597885	103.2584613	2481.110743	0.755570279
0.5A	0.500862029	0.500862029	0.002023955	0.004007896	-0.049227704	104.1114149	2474.669592	1.01321632
0.6A	0.6003536	0.6003536	0.002422707	0.003972666	-0.048850103	104.9594718	2478.028049	0.878878034
0.7A	0.700957127	0.700957127	0.002822371	0.003939218	-0.048473884	105.8224574	2483.575219	0.656991247
0.8A	0.802648839	0.802648839	0.003222957	0.004056487	-0.047979172	106.7174087	2490.411194	0.383552238
0.9A	0.901279145	0.901279145	0.00362305	0.00397934	-0.04764861	107.6036837	2487.625715	0.494971413
1A	1.00139917	1.00139917	0.004021461	0.004020611	-0.04720887	108.5184443	2490.137534	0.394498638
2A	1.99062159	1.99062159	0.00799874	0.004003247	-0.043266158	118.4872905	2488.668878	0.453244872
3A	3.00132543	3.00132543	0.012044837	0.004031437	-0.039135452	130.7773042	2491.794144	0.328234247
4A	4.00733206	0.040073321	0.01610049	0.004004016	-0.035189687	145.7534325	2488.950435	0.441982584
5A	5.00291093	0.050029109	0.020086803	0.00404421	-0.031002282	164.7913683	2490.645702	0.37417194
7A	7.0211098	0.035105549	0.028248824	0.003974513	-0.023329614	221.0856908	2485.452085	0.581916618
9A	9.01429176	0.045071459	0.036170752	0.004036506	-0.014848863	343.5927317	2492.149413	0.314023499
11A	10.99902515	0.02199805	0.04418214	0.004005109	-0.007182816	715.1089351	2489.47315	0.42107399
13A	13.0256481	0.026051296	0.052298985	0.004078181	0.00188585	-2673.232089	2490.612012	0.375519523
15A	14.9742921	0.029948584	0.060245909	0.003977097	0.0083191	-624.1878473	2485.528449	0.578862043
18A	18.0103288	0.036020658	0.07232052	0.004023177	0.021223632	-240.7546917	2490.348341	0.386066359
21A	11.01833875	0.022036678	0.044190508	0.004015904	-0.00698652	732.5109781	2493.372293	0.265108292
24A	23.98506165	0.047970123	0.096263617	0.004048032	0.045857192	-109.9204351	2491.601952	0.335921929
27A	27.0321296	0.02703213	0.108598246	0.003988992	0.056595845	-91.88377989	2489.186575	0.432537004
30A	30.0509438	0.030050944	0.120640272	0.004018147	0.06951401	-73.54814035	2490.954579	0.361816823
35A	35.016392	0.035016392	0.140592174	0.004022837	0.089630128	-56.85816527	2490.63593	0.374562812
40A	39.9960649	0.039996065	0.160624586	0.004015351	0.109363129	-46.87270451	2490.033805	0.398647813
45A	45.00629	0.04500629	0.180742398	0.004007184	0.1291134	-39.98732706	2490.079278	0.396828861
50A	49.9733805	0.049973381	0.200646446	0.004015067	0.149411339	-34.29131087	2490.618772	0.375249109

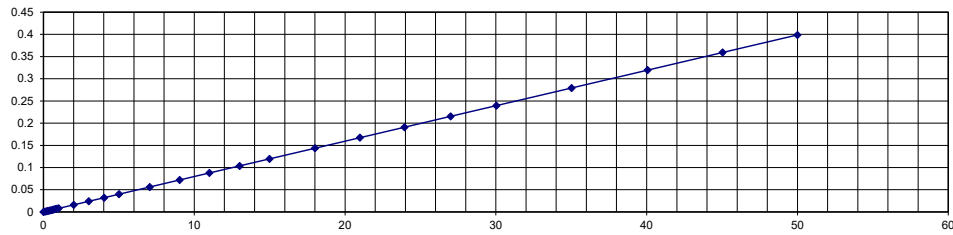
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

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<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	20
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.000953706	0.000953706	3.7885E-05	0.007750815	-0.000946314	104.0034283	503.4741708	79.86103317
0.1A	0.100188214	0.100188214	0.000807033	0.007961959	-0.000156012	617.290901	2482.876773	0.684929095
0.2A	0.200271367	0.200271367	0.001603891	0.008030742	0.000654622	-145.0103706	2497.318515	0.107259391
0.3A	0.300379165	0.300379165	0.002407831	0.007895148	0.001417832	-69.82486401	2495.018484	0.199260648
0.4A	0.401180088	0.401180088	0.003203669	0.008057332	0.002278735	-40.58980203	2504.503698	-0.180147929
0.5A	0.500480727	0.500480727	0.004003768	0.007841711	0.00297092	-34.76526516	2500.048851	-0.001954059
0.6A	0.600895064	0.600895064	0.004791188	0.008074418	0.003898172	-22.90858967	2508.334401	-0.333376034
0.7A	0.699777984	0.699777984	0.00558961	0.007993694	0.004640105	-20.46300517	2503.852707	-0.154108288
0.8A	0.799904569	0.799904569	0.006389991	0.007838731	0.005316531	-20.19098841	2503.617173	-0.144686931
0.9A	0.899445989	0.899445989	0.00717027	0.007978744	0.006222743	-15.22682934	2508.820593	-0.352823726
1A	1.00038986	1.00038986	0.007975675	0.007986612	0.007036019	-13.35492993	2508.602441	-0.344097657
2A	2.0002246	2.0002246	0.015960967	0.00796864	0.014985363	-6.51037528	2506.395336	-0.255813456
3A	2.99954006	2.99954006	0.023924151	0.007928409	0.022827875	-4.802357646	2507.541457	-0.301658266
4A	4.02391119	0.040239112	0.032045785	0.008009542	0.031275981	-2.461327352	2511.351315	-0.454052603
5A	5.00442959	0.050044296	0.039899288	0.007980508	0.038984182	-2.347378331	2508.530755	-0.341230197
7A	7.04445774	0.035222289	0.056179748	0.007992701	0.055350537	-1.498109528	2507.82816	-0.313126394
9A	9.02734852	0.045136743	0.072028401	0.007980671	0.071090596	-1.319168825	2506.608062	-0.264322486
11A	10.9987627	0.021997525	0.08776161	0.007948534	0.086470335	-1.493315106	2506.508882	-0.260355298
13A	12.99971685	0.025999434	0.103666262	0.007975818	0.102729675	-0.911701015	2507.993748	-0.31974993
15A	14.9804766	0.029960953	0.119464442	0.007935993	0.117931256	-1.300067808	2507.93899	-0.317559597
18A	18.00148445	0.036002969	0.14343914	0.007975229	0.142612254	-0.579814301	2509.982206	-0.399288228
21A	20.9789344	0.041957869	0.167184985	0.007973042	0.166312211	-0.524780418	2509.667289	-0.386691544
24A	23.9364781	0.047872956	0.190765604	0.008035585	0.191389909	0.326195504	2509.517187	-0.380687495
27A	26.9949863	0.026994986	0.215342508	0.007956986	0.213845028	-0.700263975	2507.167447	-0.286697878
30A	30.0266898	0.03002669	0.239465731	0.007963193	0.238154631	-0.550524677	2507.806831	-0.312273241
35A	35.0121439	0.035012144	0.279165866	0.00797683	0.278362095	-0.288750206	2508.339891	-0.333595655
40A	40.058165	0.040058165	0.319421425	0.007993188	0.319238733	-0.057227257	2508.170202	-0.326808072
45A	45.0360939	0.045036094	0.359210946	0.007975372	0.358225912	-0.274975571	2507.5012	-0.300047984
50A	49.9903066	0.049990307	0.398722637	0.007975999	0.397768931	-0.239763808	2507.522872	-0.300914894

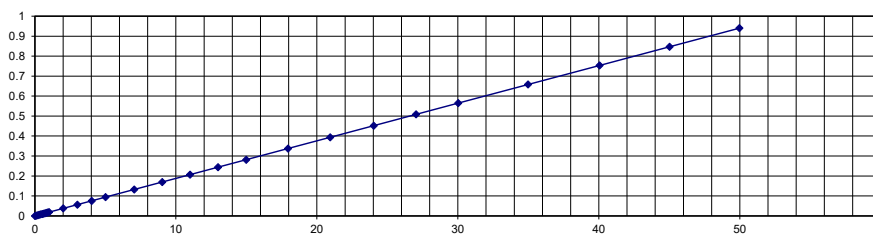
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	47
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.000918524	0.000918524	3.47923E-05	0.018769982	-0.000901283	103.8603091	1240.809044	50.36763826
0.1A	0.10673144	0.10673144	0.002020899	0.018759038	0.001083656	-86.48903899	2482.250784	0.709968647
0.2A	0.199756088	0.199756088	0.003765952	0.018792326	0.002835358	-32.82104186	2493.004879	0.279804847
0.3A	0.300825537	0.300825537	0.005665282	0.018812082	0.004740631	-19.50480493	2495.692331	0.172306777
0.4A	0.399692404	0.399692404	0.007525173	0.018842714	0.006612766	-13.79766755	2496.360169	0.145593255
0.5A	0.502969983	0.502969983	0.009471203	0.018774457	0.008524465	-11.10613423	2495.943623	0.162255094
0.6A	0.599885745	0.599885745	0.011290744	0.018827687	0.010375937	-8.816619484	2497.145451	0.114181971
0.7A	0.700797575	0.700797575	0.01319068	0.018772236	0.012237014	-7.793293271	2497.027089	0.11891646
0.8A	0.800726725	0.800726725	0.015066574	0.018672398	0.014032965	-7.365579095	2497.857597	0.085696125
0.9A	0.900827915	0.900827915	0.016935703	0.018864853	0.016075462	-5.351267144	2499.97957	0.000817197
1A	0.999806557	0.999806557	0.018802921	0.018812865	0.017890702	-5.09884149	2499.128137	0.03487452
2A	2.00295866	2.00295866	0.037675086	0.018808394	0.036753912	-2.506329467	2498.708497	0.051660113
3A	3.00208483	3.00208483	0.056467044	0.018690318	0.055191398	-2.311313949	2498.767002	0.049319911
4A	4.02113392	0.040211339	0.075513396	0.019005125	0.075503629	-0.012936265	2502.778361	-0.111134448
5A	5.00482941	0.050048294	0.094208652	0.018776201	0.093053158	-1.24175702	2496.872392	0.125104318
7A	7.038188	0.03519094	0.132387401	0.018798705	0.131390297	-0.758887151	2498.688195	0.052472214
9A	9.03107532	0.045155377	0.169851102	0.01869147	0.167885552	-1.170767636	2499.01552	0.039379188
11A	10.9952398	0.02199048	0.206564224	0.018849956	0.20634126	-0.108056069	2501.770445	-0.0708178
13A	12.9901456	0.025980291	0.24416811	0.018727815	0.24235852	-0.746658276	2500.47741	-0.019096384
15A	14.9800999	0.0299602	0.281435606	0.018873244	0.281804557	0.130924526	2501.690192	-0.067607693
18A	17.9550768	0.035910154	0.337583071	0.018772503	0.336143207	-0.42834834	2499.795405	0.008183811
21A	20.940318	0.041880636	0.39362352	0.018822255	0.393225472	-0.101226422	2500.345879	-0.013835149
24A	24.0290737	0.024029074	0.451760866	0.018860759	0.452288046	0.116558362	2499.920973	0.003161062
27A	27.0329378	0.027032938	0.508416023	0.018861186	0.508954754	0.105850377	2499.032326	0.038706955
30A	30.0263968	0.030026397	0.564876211	0.01879358	0.563384975	-0.264692264	2498.318432	0.06726273
35A	34.9785729	0.034978573	0.65794533	0.018797056	0.656575673	-0.208606063	2498.677096	0.052916172
40A	40.0455731	0.040045573	0.753190017	0.018858708	0.754289232	0.146528525	2498.893896	0.044244176
45A	45.0155862	0.045015586	0.846918041	0.018782646	0.844593315	-0.275247954	2498.155015	0.073799401
50A	49.9627142	0.049962714	0.939838197	0.018810791	0.938919673	-0.097827713	2498.56579	0.05736839

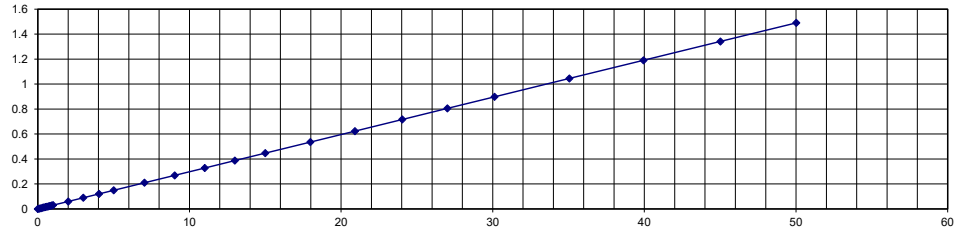
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	75
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

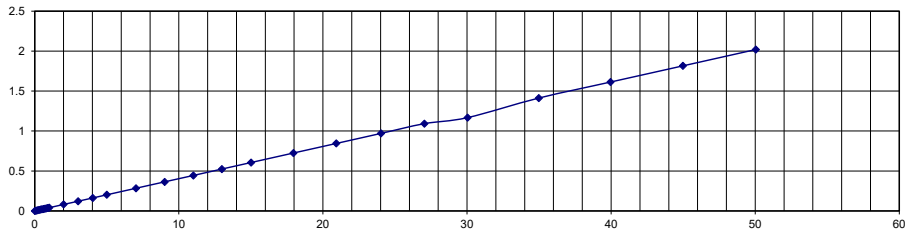


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000908319	0.000908319	4.58601E-05	0.029576452	-0.000881454	105.2027744	1485.473613	40.58105548
0.1A	0.100898802	0.100898802	0.003003224	0.030051184	0.002123809	-41.40740805	2519.762355	-0.790494215
0.2A	0.199729965	0.199729965	0.005973217	0.029598608	0.00500341	-19.38292719	2507.818973	-0.312758928
0.3A	0.300196924	0.300196924	0.008946899	0.029834372	0.008047868	-11.17105466	2516.488503	-0.659540114
0.4A	0.401074585	0.401074585	0.011956521	0.029817145	0.01105058	-8.19813175	2515.831643	-0.63326573
0.5A	0.499964808	0.499964808	0.014905145	0.029855119	0.01401819	-6.327172869	2515.732678	-0.629307124
0.6A	0.599319835	0.599319835	0.017871401	0.029895253	0.017008499	-5.073358852	2515.13504	-0.605401603
0.7A	0.700606798	0.700606798	0.020899401	0.029892942	0.02003488	-4.315080056	2514.211321	-0.568452855
0.8A	0.800033969	0.800033969	0.023871571	0.029570567	0.022749139	-4.933955585	2513.556677	-0.542267067
0.9A	0.900815344	0.900815344	0.026851734	0.030098089	0.026204502	-2.469927422	2516.081505	-0.643260213
1A	1.00164097	1.00164097	0.029886393	0.029812065	0.028952667	-3.225007369	2513.621299	-0.544851976
2A	2.00376265	2.00376265	0.059761709	0.029812739	0.058829333	-1.584883101	2514.690431	-0.587617228
3A	2.99864205	2.99864205	0.089421789	0.029795455	0.088437584	-1.112881166	2515.026329	-0.601053173
4A	4.02635391	0.040263539	0.120042931	0.029781433	0.119002269	-0.874489495	2515.571227	-0.622849087
5A	5.00031085	0.050003109	0.149048764	0.029782917	0.148015522	-0.69806338	2516.111531	-0.644461231
7A	7.03353892	0.035167695	0.209604226	0.029746319	0.208313572	-0.619572836	2516.721295	-0.668851782
9A	9.01789068	0.045089453	0.268631386	0.029689476	0.266828134	-0.6758102	2517.731867	-0.709274679
11A	11.00731525	0.022014631	0.32769636	0.030008136	0.329400689	0.517403008	2519.248745	-0.76994981
13A	12.9906456	0.025981291	0.387212406	0.029776053	0.385901836	-0.339612391	2516.185961	-0.64743845
15A	14.99820955	0.029996419	0.446989737	0.029714878	0.44476165	-0.500961968	2516.535891	-0.661435656
18A	17.96365055	0.035927301	0.535107455	0.029853382	0.535367409	0.048556258	2517.763075	-0.710522992
21A	20.9054487	0.041810897	0.62293008	0.029863087	0.623392906	0.074243062	2516.989792	-0.679591681
24A	24.0255744	0.024025574	0.716106664	0.029944194	0.71851815	0.335619375	2516.270509	-0.650820364
27A	27.0012946	0.027001295	0.805212208	0.029758586	0.802612015	-0.323966361	2514.985584	-0.599423351
30A	30.1128932	0.030112893	0.897808981	0.029878862	0.89883066	0.11366759	2515.531742	-0.621269682
35A	35.0545285	0.035054529	1.04545942	0.029717777	1.040834357	-0.444361119	2514.769667	-0.59078668
40A	39.9339469	0.039933947	1.19046489	0.02979799	1.189043026	-0.119580571	2515.862536	-0.634501451
45A	45.0104098	0.04501041	1.34173328	0.02966381	1.342471911	-0.559209056	2515.984947	-0.639397869
50A	50.0098071	0.050009807	1.49003445	0.029794845	1.489126131	-0.060996786	2517.213969	-0.688558778

**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb



**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	100
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.00098254	0.00098254	5.06708E-05	0.040206629	-0.000943036	105.3731621	1939.064744	22.43741023
0.1A	0.098017539	0.098017539	0.003952121	0.040506447	0.002987802	-32.27519648	2480.124919	0.79500323
0.2A	0.19933207	0.19933207	0.008056013	0.040611077	0.00711255	-13.2647627	2474.326645	1.026934199
0.3A	0.298643559	0.298643559	0.012089159	0.04026902	0.011043543	-9.468122043	2470.341829	1.186326828
0.4A	0.39985756	0.39985756	0.016164948	0.040298761	0.015131224	-6.831726298	2473.608715	1.055651407
0.5A	0.501090615	0.501090615	0.020244515	0.040375925	0.019249457	-5.169275914	2475.192045	0.992318186
0.6A	0.601208209	0.601208209	0.024286855	0.040430282	0.023324477	-4.126043817	2475.44693	0.982122794
0.7A	0.700560364	0.700560364	0.028303691	0.040602779	0.027462158	-3.064336995	2475.155525	0.99377902
0.8A	0.800211828	0.800211828	0.032349817	0.040090474	0.031098331	-4.024287304	2473.620872	1.0551651
0.9A	0.900546572	0.900546572	0.036372285	0.040503169	0.03549245	-2.478934127	2475.914242	0.963430328
1A	1.0001327	1.0001327	0.040405838	0.040405946	0.039428768	-2.478065683	2475.21829	0.991268383
2A	2.00246287	2.00246287	0.080905937	0.040379689	0.079876287	-1.289055986	2475.050592	0.99797633
3A	3.00041366	3.00041366	0.121202879	0.040158905	0.119510787	-1.415848623	2475.530024	0.978799027
4A	4.02342061	0.040234206	0.162285718	0.040664287	0.162626991	0.209850064	2479.22039	0.831184418
5A	4.9997264	0.049997264	0.201986497	0.040417611	0.201094457	-0.443592557	2475.277543	0.98898283
7A	7.02611754	0.035130588	0.283888386	0.040332406	0.282397683	-0.527873771	2474.957725	1.001690996
9A	9.0120963	0.045060482	0.363987687	0.040160785	0.36095032	-0.841491608	2475.934385	0.962624596
11A	11.00303015	0.02200606	0.443945153	0.040475949	0.444375549	0.096854051	2478.466107	0.861355727
13A	12.9811469	0.025962294	0.524011306	0.040333251	0.522589318	-0.272104337	2477.26466	0.909413584
15A	15.00950005	0.030019	0.605821383	0.040442014	0.606031871	0.03473216	2477.54544	0.898182394
18A	17.9434682	0.035886936	0.724476964	0.040244146	0.721137014	-0.463150483	2476.747929	0.930082851
21A	20.92604785	0.041852096	0.844508335	0.04058457	0.848292104	0.446045477	2477.897136	0.884114542
24A	24.0259717	0.024025972	0.97031741	0.040510584	0.972323601	0.206329584	2476.094055	0.956237815
27A	27.0356242	0.027035624	1.09224019	0.025260588	0.681953234	-60.16350334	2475.245321	0.990187149
30A	30.0363627	0.030036363	1.16804061	0.049503431	1.48592048	21.39279149	2571.516987	-2.860679476
35A	34.9808557	0.034980856	1.41280998	0.040278631	1.407998449	-0.341728446	2475.977392	0.960904311
40A	39.9532764	0.039953276	1.61309228	0.040300867	1.609169135	-0.24379944	2476.812821	0.927487174
45A	44.9799375	0.044979938	1.81567108	0.04038279	1.815432841	-0.013122998	2477.317505	0.907299796
50A	50.0372765	0.050037277	2.01990054	0.040367915	2.018918	-0.048666672	2477.214868	0.911405271

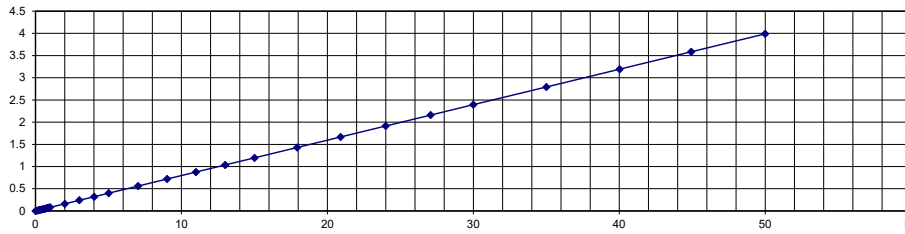
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	200
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.00092002	0.00092002	7.93375E-05	0.079649199	-0.000846741	109.3697412	2319.257681	7.229692754
0.1A	0.099233938	0.099233938	0.007909962	0.079987812	0.007017486	-12.71789706	2509.087528	-0.363501127
0.2A	0.200778736	0.200778736	0.016032309	0.079640688	0.015070137	-6.384625028	2504.676554	-0.187062144
0.3A	0.300892642	0.300892642	0.024005449	0.080274515	0.023233991	-3.320385115	2506.86953	-0.274781198
0.4A	0.399642351	0.399642351	0.031932534	0.079389097	0.030807225	-3.652742354	2503.041896	-0.121675844
0.5A	0.499960386	0.499960386	0.039896692	0.080200423	0.039177014	-1.836990005	2506.27488	-0.250995195
0.6A	0.601285771	0.601285771	0.048023031	0.079821648	0.047075601	-2.01257011	2504.155864	-0.166234573
0.7A	0.699565602	0.699565602	0.055867889	0.079918742	0.054988383	-1.599439969	2504.356673	-0.174266939
0.8A	0.800204555	0.800204555	0.063910827	0.07977669	0.062917651	-1.578534025	2504.128291	-0.165131644
0.9A	0.90016075	0.90016075	0.071885002	0.079184525	0.070358782	-2.169196153	2504.446623	-0.177864919
1A	1.00026798	1.00026798	0.079811945	0.079800281	0.078901645	-1.153714696	2506.562085	-0.26248339
2A	2.00039332	2.00039332	0.159622228	0.079757748	0.158626847	-0.627498371	2506.409471	-0.25637883
3A	3.00081518	3.00081518	0.239413623	0.079279059	0.236981785	-1.026170859	2506.804034	-0.272161372
4A	4.02064514	0.040206451	0.320264783	0.080353461	0.322152734	0.586042184	2510.825638	-0.433025507
5A	5.00976202	0.05009762	0.399743748	0.079642531	0.398070107	-0.420438757	2506.486741	-0.259469624
7A	7.0170337	0.035085169	0.559607945	0.080077326	0.560985272	0.245519229	2507.839198	-0.313567921
9A	9.01709554	0.045085478	0.719767548	0.079118495	0.712499009	-1.020147222	2505.55768	-0.222307216
11A	10.98499585	0.021969992	0.875464859	0.079852005	0.876253919	0.09004919	2509.522966	-0.380918659
13A	12.99410485	0.02598821	1.03589624	0.079680988	1.034463098	-0.138539675	2508.765714	-0.350628553
15A	15.0002327	0.030000465	1.19574649	0.079673009	1.194193662	-0.130031482	2508.931923	-0.357276901
18A	17.9243665	0.035848733	1.42872103	0.079691106	1.42749258	-0.08605652	2509.148549	-0.365941978
21A	20.90278455	0.041805569	1.66607446	0.080103036	1.673456489	0.441124651	2509.225734	-0.369029365
24A	23.992706	0.023992706	1.91358655	0.079651862	1.910143696	-0.180240577	2507.616496	-0.304659855
27A	27.0631123	0.027063112	2.15815013	0.080389585	2.174672359	0.759757155	2507.991629	-0.319665157
30A	29.9867379	0.029986738	2.39317918	0.079557987	2.384764477	-0.35285259	2506.01694	-0.240677842
35A	35.0040446	0.035004045	2.792346	0.07998171	2.797939379	0.199910672	2507.142353	-0.285694108
40A	40.0210958	0.040021096	3.19350024	0.079910689	3.197193327	0.115510274	2506.409444	-0.256377748
45A	44.9254283	0.044925428	3.58540883	0.079555766	3.57315683	-0.342890079	2506.014261	-0.240570446
50A	49.9888559	0.049988856	3.98823369	0.079782456	3.98731367	-0.02307368	2506.816791	-0.272671635



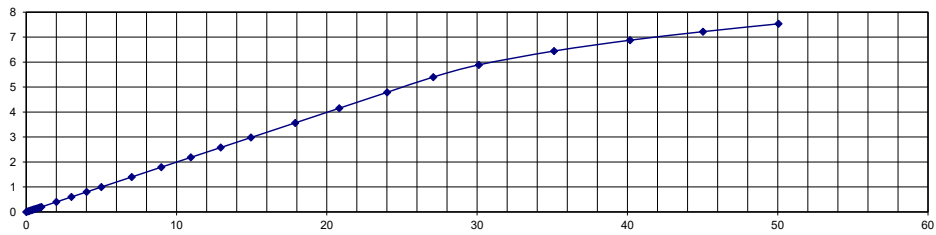
# CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	500
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.000909286	0.000909286	0.000177715	0.199651597	-0.000727745	124.4199377	2558.269956	-2.330798253
0.1A	0.100760732	0.100760732	0.020113216	0.200228553	0.01926589	-4.398061409	2504.838945	-0.193557811
0.2A	0.200131924	0.200131924	0.040010166	0.198854978	0.038887944	-2.885783369	2501.013436	-0.040537448
0.3A	0.301426003	0.301426003	0.060152998	0.200815879	0.059621842	-0.890873818	2505.494448	-0.219777908
0.4A	0.399526322	0.399526322	0.079853099	0.198504885	0.078398641	-1.855208497	2501.633155	-0.065326206
0.5A	0.500843897	0.500843897	0.099965133	0.200381758	0.099450695	-0.517279421	2505.092936	-0.20371743
0.6A	0.600148161	0.600148161	0.119863896	0.198835867	0.118421695	-1.217852435	2503.456758	-0.138270326
0.7A	0.699686465	0.699686465	0.139655681	0.200361547	0.139280977	-0.269027467	2505.041184	-0.201647364
0.8A	0.799974975	0.799974975	0.159749642	0.198302917	0.157728086	-1.281671624	2503.839649	-0.153585947
0.9A	0.901415651	0.901415651	0.179865624	0.200630117	0.179941842	0.042356897	2505.803029	-0.232121175
1A	1.00001515	1.00001515	0.199647653	0.199433713	0.198527448	-0.564256761	2504.450052	-0.178002093
2A	2.00018571	2.00018571	0.399115381	0.199292248	0.397712221	-0.352807982	2505.773775	-0.230951009
3A	3.00047927	3.00047927	0.598466133	0.199283147	0.597035665	-0.239595044	2506.807908	-0.272316328
4A	4.01813526	0.040181353	0.801267821	0.199764681	0.801772222	0.062910794	2507.360931	-0.294437258
5A	4.98539611	0.049853961	0.994492376	0.199380598	0.993081973	-0.142022856	2506.502931	-0.260117228
7A	7.0118413	0.035059207	1.39852623	0.199993662	1.401414534	0.206099179	2506.867998	-0.27471991
9A	8.98346118	0.044917306	1.79283771	0.199258712	1.789123622	-0.207592592	2505.374895	-0.214995812
11A	10.9493432	0.021898686	2.18455683	0.198429476	2.171763148	-0.589091948	2506.078819	-0.24315275
13A	12.9375777	0.025875155	2.57908116	0.198930837	2.57277387	-0.245155257	2508.175761	-0.327030422
15A	14.95126425	0.029902529	2.97966551	0.199421363	2.980692214	0.034445169	2508.882994	-0.355319749
18A	17.8899649	0.03577993	3.5657052	0.20020902	3.580823062	0.422189589	2508.615252	-0.344610093
21A	20.82771635	0.041655433	4.15386954	0.199905449	4.162664698	0.211286721	2507.025816	-0.281032659
24A	24.0109634	0.024010963	4.79021797	0.199304738	4.784589491	-0.117637664	2506.249564	-0.24998257
27A	27.0721128	0.027072113	5.40031955	0.16127681	4.365194699	-23.71314277	2506.528785	-0.261151398
30A	30.1110308	0.030111031	5.89042655	0.110649023	3.330846843	-76.84471332	2555.92957	-2.237182806
35A	35.113935	0.035113935	6.44399301	0.085611731	3.005255464	-114.4241342	2724.547881	-8.981915236
40A	40.1681176	0.040168118	6.87669033	0.070733005	2.840302386	-142.1112049	2920.599567	-16.82398268
45A	45.023461	0.045023461	7.22012336	0.062331034	2.80544961	-157.3606503	3117.914941	-24.71659764
50A	50.0448747	0.050044875	7.53311327	0.150527168	7.532203984	-0.012071972	3321.659512	-32.86638049

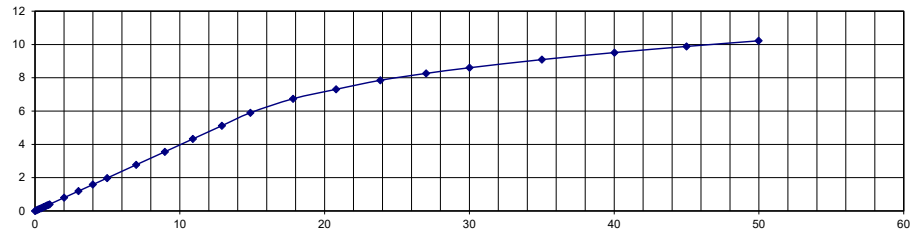
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8448-2500-N
<b>Lot #:</b>	31408
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 15, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	40
<b>Burden (Ohms):</b>	1000
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	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	0.000854386	0.000854386	0.000313386	0.397264896	-0.000514969	160.8553382	2726.307469	-9.052298742
0.1A	0.101101044	0.101101044	0.040137864	0.398636343	0.039448164	-1.748369659	2518.844656	-0.753786252
0.2A	0.200127244	0.200127244	0.079613306	0.39735126	0.078666426	-1.203664342	2513.741155	-0.549646185
0.3A	0.299994326	0.299994326	0.119295617	0.396870416	0.118204487	-0.923086954	2514.71373	-0.5885492
0.4A	0.40046539	0.40046539	0.15916961	0.396925584	0.158100572	-0.676175644	2515.966396	-0.638655834
0.5A	0.499993487	0.499993487	0.198674858	0.396428412	0.197357238	-0.667632105	2516.641975	-0.665678996
0.6A	0.599975395	0.599975395	0.238310527	0.394515181	0.235845015	-1.045394999	2517.620193	-0.704807723
0.7A	0.700611852	0.700611852	0.278013137	0.39745642	0.277608292	-0.14583304	2520.067431	-0.802697248
0.8A	0.800311024	0.800311024	0.317639213	0.397688152	0.317419826	-0.069115669	2519.559901	-0.782396032
0.9A	0.901299079	0.901299079	0.357800966	0.393448634	0.353760505	-1.142145792	2518.995656	-0.759826233
1A	1.00080297	1.00080297	0.396950636	0.396786839	0.396251061	-0.176548407	2521.227778	-0.849111122
2A	2.00219518	2.00219518	0.794289886	0.396813001	0.793642692	-0.081547326	2520.736088	-0.829443521
3A	2.99873517	2.99873517	1.18972991	0.395374159	1.184768009	-0.418807779	2520.517594	-0.820703751
4A	3.99020892	0.039902089	1.58173301	0.397056794	1.583485175	0.11065242	2522.681701	-0.907268035
5A	4.98120919	0.049812092	1.9752164	0.397480642	1.979079839	0.195213906	2521.854917	-0.87419667
7A	6.9810097	0.034905049	2.77009839	0.394826789	2.755435257	-0.532153054	2520.130594	-0.805223745
9A	8.96108008	0.0448054	3.55188322	0.398920377	3.57390306	0.61612862	2522.909545	-0.916381817
11A	10.89336425	0.021786729	4.32271075	0.395770183	4.31041438	-0.285271171	2520.030805	-0.80123219
13A	12.8963707	0.025792741	5.11544098	0.39529102	5.096965146	-0.362486967	2521.067245	-0.842689812
15A	14.87414095	0.029748282	5.8972358	0.285560646	4.246614916	-38.8690973	2522.222522	-0.888900864
18A	17.8201478	0.035640296	6.73849942	0.190865422	3.400395646	-98.16809931	2644.527615	-5.781104601
21A	20.79419765	0.041588395	7.3061427	0.177423246	3.688519663	-98.07791115	2846.125309	-13.84501236
24A	23.8400412	0.023840041	7.84654615	0.131079956	3.12409717	-151.1620389	3038.284711	-21.53138843
27A	27.0027046	0.027002705	8.26110793	0.113331041	3.059390232	-170.0246554	3268.654136	-30.74616542
30A	30.0003355	0.030003356	8.60083256	0.097950887	2.937705088	-192.7738592	3488.073427	-39.52293707
35A	35.0057502	0.03500575	9.09111737	0.084132011	2.944249763	-208.7753452	3850.544303	-54.02177213
40A	40.0147421	0.040014742	9.51253393	0.074205368	2.968454275	-220.4541169	4206.528186	-68.26112745
45A	44.9923572	0.044992357	9.88189969	0.067730844	3.046515918	-224.3672429	4553.006872	-82.12027489
50A	49.9715453	0.049971545	10.2191443	0.204499265	10.21828991	-0.008361343	4889.993118	-95.59972472