

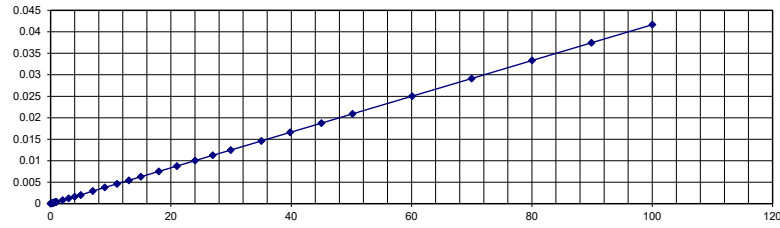
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<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	0.000708033	0.000708033	3.22317E-05	0.000222096	-0.000707876	104.5533012	21.96696626	99.12132135
0.1A	0.100706205	0.100706205	5.44409E-05	0.000351128	-0.000672672	108.0932314	1849.825666	26.00697335
0.2A	0.201424932	0.201424932	8.98061E-05	0.000410661	-0.000625316	114.3617231	2242.886708	10.28453167
0.3A	0.29981596	0.29981596	0.000130211	0.000410163	-0.00058506	122.2560925	2302.531884	7.898724648
0.4A	0.400246688	0.400246688	0.000171404	0.000415093	-0.000541893	131.6306424	2335.102209	6.595911638
0.5A	0.500069368	0.500069368	0.00021284	0.000413262	-0.000501373	142.4514003	2349.507805	6.019687817
0.6A	0.601488295	0.601488295	0.000254753	0.000406629	-0.00046345	154.9687183	2361.068197	5.557272123
0.7A	0.69746353	0.69746353	0.000293779	0.000423975	-0.000412326	171.2492106	2374.109827	5.03560694
0.8A	0.80358695	0.80358695	0.000338773	0.000405226	-0.000382399	188.5914119	2372.053886	5.117844568
0.9A	0.901109257	0.901109257	0.000378291	0.000391032	-0.00035567	206.360164	2382.052019	4.717919259
1A	1.0012559	1.0012559	0.000417452	0.000391631	-0.00031591	232.1427273	2398.494818	4.060207272
2A	2.00538159	2.00538159	0.000810699	0.00040456	0.000103284	-685.0718693	2473.645394	1.054184241
3A	3.01775084	3.01775084	0.001220263	0.000397443	0.000491351	-148.3487128	2473.03304	1.078678405
4A	3.99594539	0.39959454	0.00160904	0.00040114	0.000894899	-79.80125918	2483.435189	0.662592422
5A	5.01455828	0.050145583	0.002017645	0.000457694	0.001587098	-27.12798764	2485.351517	0.585939307
7A	7.00653966	0.035032698	0.002929362	0.000420123	0.002235575	-31.03394818	2391.83092	4.326763198
9A	9.01560696	0.045078035	0.003773418	0.0004115	0.003001888	-25.70149903	2389.241685	4.430332593
11A	11.06108	0.02212216	0.00461513	0.000416677	0.00390086	-18.31056397	2396.699801	4.132007979
13A	13.02252665	0.026045053	0.005432418	0.000417057	0.004723103	-15.01799273	2397.18771	4.112491585
15A	15.0235718	0.030047144	0.006266968	0.000417167	0.005559308	-12.72928368	2397.28308	4.109476807
18A	18.01053915	0.036021078	0.007513033	0.000416563	0.006794489	-10.57538877	2397.239425	4.110422993
21A	21.0180705	0.042036141	0.008765859	0.000416379	0.008043451	-8.981325897	2397.719414	4.091223424
24A	24.01901475	0.04803803	0.010015389	0.000422036	0.009428867	-6.220492443	2398.210796	4.071568142
27A	26.9710532	0.026971053	0.011261257	0.000407922	0.010294052	-9.395762389	2395.030388	4.198784484
30A	29.9498255	0.029949826	0.012476364	0.000417311	0.011790356	-5.818378061	2400.525164	3.978993431
35A	35.036775	0.035036775	0.014599204	0.000418365	0.013950136	-4.652764977	2399.910036	4.003598552
40A	39.8226124	0.039822612	0.016601432	0.000411665	0.015685526	-5.839177117	2398.745684	4.050172637
45A	45.0205131	0.045020513	0.018741223	0.000418729	0.018143357	-3.29523706	2402.218501	3.911259965
50A	50.202621	0.050202621	0.020911122	0.000415991	0.020175812	-3.644511326	2400.761767	3.969529324
60A	60.0946198	0.03004731	0.025026105	0.000415481	0.024260124	-3.157369112	2401.277359	3.948905641
70A	69.9986666	0.034999333	0.029141046	0.000417706	0.028530859	-2.138690077	2402.064328	3.917426876
80A	80.043446	0.040021723	0.033336815	0.000417171	0.032683776	-1.998051455	2401.052619	3.957895245
90A	89.915343	0.044957672	0.037455084	0.000416976	0.036784501	-1.823003987	2400.617825	3.975287008
100A	100.0208638	0.050010432	0.041668843	0.000416602	0.04096081	-1.728561959	2400.375338	3.984986499

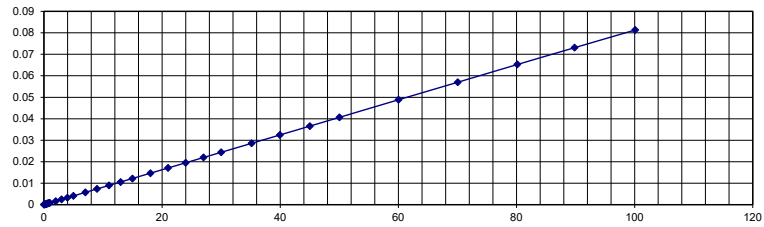
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	2
<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	0.000690494	0.000690494	3.27055E-05	0.000582805	-0.000690902	104.7393008	42.22492653	98.31100294
0.1A	0.100394719	0.100394719	9.08136E-05	0.000795126	-0.000610668	114.8711909	2211.006047	11.55975811
0.2A	0.200473217	0.200473217	0.000170389	0.000806506	-0.000528812	132.2210333	2353.129693	5.874812281
0.3A	0.302537065	0.302537065	0.000252704	0.000812695	-0.00044624	156.8353466	2394.402029	4.223918824
0.4A	0.400161213	0.400161213	0.000332042	0.000821482	-0.000361769	191.782899	2410.302628	3.587894866
0.5A	0.499806531	0.499806531	0.000413899	0.000835568	-0.000272872	251.6824091	2415.112769	3.395489227
0.6A	0.601801332	0.601801332	0.000499123	0.00083457	-0.000188249	365.139307	2411.436454	3.542541852
0.7A	0.7018712	0.7018712	0.000582638	0.000847777	-9.54644E-05	710.3195537	2409.287475	3.628500981
0.8A	0.803022703	0.803022703	0.000668392	0.000843847	-1.28664E-05	5294.87425	2402.850005	3.885999786
0.9A	0.900994364	0.900994364	0.000751065	0.000827244	5.48476E-05	-1269.36694	2399.244924	4.030203045
1A	1.00189907	1.00189907	0.000834538	0.000811768	0.000122815	-579.5059696	2401.087534	3.956498647
2A	2.0063334	2.0063334	0.001645278	0.000807585	0.000925187	-77.8320498	2431.9693	2.721228009
3A	3.00686569	3.00686569	0.002457896	0.000809776	0.001744394	-40.90258989	2446.698428	2.132062887
4A	3.98381097	0.03983811	0.003249004	0.000807741	0.002527392	-28.55162334	2452.32785	1.906885993
5A	5.00393567	0.050039357	0.004073	0.000816182	0.003393628	-20.01905737	2457.125371	1.714985172
7A	7.02613292	0.035130665	0.005723481	0.000812695	0.005019611	-14.02239714	2455.195764	1.79216944
9A	8.99700072	0.044985004	0.007325196	0.000808053	0.006579562	-11.33258286	2456.453279	1.741868833
11A	11.0138202	0.02202764	0.008954894	0.000811651	0.008248885	-8.558836401	2459.843928	1.606242888
13A	12.99197705	0.025983954	0.010560467	0.000812392	0.00986408	-7.059823394	2460.492972	1.580281106
15A	14.9939438	0.029987888	0.012186848	0.000812127	0.011486488	-6.097253993	2460.678284	1.572948654
18A	18.0435415	0.036087083	0.014663508	0.000811721	0.013955826	-5.070866112	2461.013012	1.559479534
21A	21.01841295	0.042036826	0.017078273	0.000812073	0.016377981	-4.275813852	2461.421342	1.543146303
24A	24.01046285	0.048020926	0.019508035	0.000812969	0.018829279	-3.604786581	2461.597321	1.536107179
27A	27.0288193	0.027028819	0.021961866	0.0008103	0.021210964	-3.540160711	2461.431914	1.542723443
30A	30.0241793	0.030024179	0.024389007	0.000812049	0.023690596	-2.94805186	2462.107543	1.515698269
35A	35.1527132	0.035152713	0.028553626	0.000812047	0.027855178	-2.507424943	2462.224146	1.511034171
40A	39.9419101	0.03994191	0.032442681	0.000812821	0.031775123	-2.100881836	2462.306381	1.507744756
45A	45.0171844	0.045017184	0.03656797	0.000814484	0.03597529	-1.6474642	2462.110135	1.515594616
50A	50.0379743	0.050037974	0.040657324	0.00081963	0.040322155	-0.831228003	2461.449494	1.542020243
60A	60.049544	0.030024772	0.048863111	0.00081278	0.048116557	-1.551554786	2457.868212	1.685271523
70A	70.0560412	0.035028021	0.056996189	0.00081972	0.056735818	-0.45891827	2458.271059	1.669157629
80A	80.1663758	0.040083188	0.065283829	0.000806969	0.06400125	-2.00398976	2455.933637	1.762654516
90A	89.8512158	0.044925608	0.07309919	0.000803182	0.071476429	-2.270344335	2458.336824	1.666527021
100A	100.0914046	0.050045702	0.081323931	0.000812497	0.080633436	-0.856337608	2461.548615	1.538055413

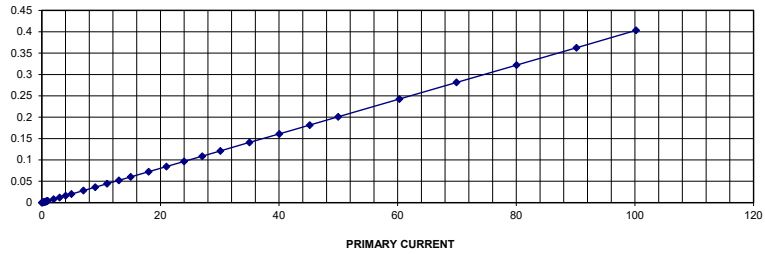
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	10
<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	0.000675495	0.000675495	3.11212E-05	0.003863497	-0.000672885	104.6250342	217.0532038	91.31787185
0.1A	0.100761761	0.100761761	0.000417804	0.003975385	-0.000274928	251.9683585	2411.698505	3.532059817
0.2A	0.202562266	0.202562266	0.0008225	0.004023827	0.00013958	-489.2662352	2462.762115	1.489515385
0.3A	0.301279353	0.301279353	0.001219721	0.004034655	0.000540063	-125.8478958	2470.068073	1.197277065
0.4A	0.399752419	0.399752419	0.001617026	0.00407532	0.000953624	-69.56641923	2472.146416	1.114143359
0.5A	0.499324015	0.499324015	0.002022812	0.004071645	0.001357575	-49.00182134	2468.465071	1.261397162
0.6A	0.601824082	0.601824082	0.002440156	0.004040846	0.001756383	-38.93068909	2466.334779	1.346608836
0.7A	0.700653754	0.700653754	0.002839511	0.004013149	0.002136333	-32.91521353	2467.515374	1.299385049
0.8A	0.799825079	0.799825079	0.003237501	0.003984673	0.002511546	-28.90467978	2470.501793	1.179928281
0.9A	0.900791297	0.900791297	0.003639818	0.003976536	0.002906534	-25.2288244	2474.825209	1.006991655
1A	1.00117625	1.00117625	0.004039002	0.004022293	0.003351529	-20.51221423	2478.771242	0.849150317
2A	2.00105131	2.00105131	0.008060793	0.004025391	0.007379518	-9.231969094	2482.449717	0.702011335
3A	2.99896235	2.99896235	0.01207775	0.003986661	0.011280351	-7.069138295	2483.042137	0.678314524
4A	4.01245221	0.040124522	0.016118215	0.004043736	0.0155498	-3.655447232	2489.389898	0.424404062
5A	4.99288638	0.049928864	0.020082832	0.004023037	0.019411071	-3.460709326	2486.146603	0.554135899
7A	7.01168534	0.035058427	0.028204534	0.00402116	0.027519613	-2.488848943	2486.013504	0.559459829
9A	9.00651924	0.045032596	0.036226081	0.004013029	0.035467924	-2.137583989	2486.197545	0.552098204
11A	11.004894	0.022009788	0.044245616	0.004023304	0.043600543	-1.479506218	2487.228141	0.510874349
13A	13.00167985	0.02600336	0.052279293	0.004022439	0.051622969	-1.271380117	2486.965523	0.521379089
15A	15.00320665	0.030006413	0.060330312	0.004023604	0.059691464	-1.070250361	2486.843865	0.526245413
18A	18.0212049	0.03604241	0.072473541	0.004021214	0.071791623	-0.949857204	2486.59091	0.536363607
21A	21.0144348	0.04202887	0.084509959	0.004018503	0.083771073	-0.882030105	2486.622299	0.535108059
24A	24.00554975	0.0480111	0.096529763	0.004029288	0.096049779	-0.499724553	2486.854728	0.525810884
27A	27.0458107	0.027045811	0.10877985	0.004026558	0.108226039	-0.511716953	2486.288655	0.548453781
30A	30.121035	0.030121035	0.12116242	0.004076352	0.122108432	0.774731048	2486.004736	0.559810542
35A	35.0136783	0.035013678	0.141106554	0.003948475	0.13757513	-2.566905586	2481.364423	0.745423065
40A	40.0311428	0.040031143	0.160917886	0.004031075	0.16069306	-0.139910303	2487.675161	0.492993551
45A	45.1668577	0.045166858	0.18162034	0.004039453	0.181773915	0.084486819	2486.883226	0.52467097
50A	49.9762358	0.049976236	0.201047598	0.004028101	0.200633805	-0.206242727	2485.79124	0.568350386
60A	60.2949766	0.030147488	0.242612523	0.00402065	0.241749495	-0.356992638	2485.237607	0.590495735
70A	69.9299782	0.034964989	0.281351491	0.004016103	0.28017049	-0.421529393	2485.502314	0.57990743
80A	80.0407434	0.040020372	0.321957364	0.004017401	0.320880235	-0.335679595	2486.066553	0.557337896
90A	90.1447806	0.04507239	0.362549329	0.004062992	0.365582051	0.829559791	2486.414217	0.543431319
100A	100.1891416	0.050094571	0.40335949	0.00402598	0.402683995	-0.167748202	2483.867222	0.645311109

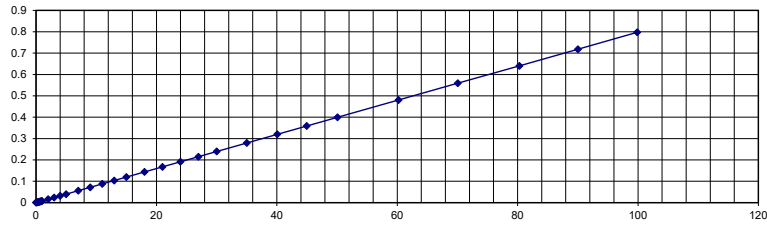
# CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<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	0.000702868	0.000702868	0.000304785	0.005076027	-0.0006993	143.584337	46.12216188	98.15511352
0.1A	0.100855012	0.100855012	0.00081316	0.007988614	0.000102824	-690.8312179	2480.568689	0.777252429
0.2A	0.200133891	0.200133891	0.001606261	0.00800084	0.000898371	-78.79705396	2491.922418	0.323103279
0.3A	0.301192362	0.301192362	0.002414814	0.007994761	0.001705093	-41.62360744	2494.539129	0.218434823
0.4A	0.400387762	0.400387762	0.003207857	0.008017744	0.002607339	-27.93873494	2496.294198	0.148232099
0.5A	0.502216692	0.502216692	0.004024296	0.008026196	0.003328021	-20.92156058	2495.923532	0.163058702
0.6A	0.601733714	0.601733714	0.004823039	0.007995265	0.004108152	-17.4016529	2495.247328	0.190106874
0.7A	0.700822812	0.700822812	0.005615282	0.007982989	0.004891792	-14.78987447	2496.12676	0.154929595
0.8A	0.801515172	0.801515172	0.006419108	0.007964141	0.005680512	-13.00228835	2497.2789	0.108843998
0.9A	0.900889734	0.900889734	0.007210541	0.007935247	0.006445914	-11.86220064	2498.813075	0.047476991
1A	1.0005785	1.0005785	0.008001596	0.007979015	0.007280763	-9.90051951	2500.947261	-0.03789044
2A	2.0069274	2.0069274	0.016031269	0.007987714	0.015327895	-4.588854366	2503.766062	-0.15064247
3A	3.02645193	3.02645193	0.02417494	0.007954278	0.023370372	-3.442684715	2503.792713	-0.151708505
4A	3.99814515	0.039981452	0.031904058	0.007986411	0.03122796	-2.165039013	2506.355242	-0.254209668
5A	5.00313801	0.05003138	0.039930344	0.007987706	0.039260726	-1.705567169	2505.932862	-0.237314462
7A	7.01395984	0.035069799	0.055992197	0.007980538	0.055272308	-1.302440559	2505.334771	-0.213390843
9A	9.00848332	0.045042417	0.071909568	0.007960848	0.071012295	-1.26354622	2505.5034	-0.22013602
11A	10.9977873	0.021995575	0.087746114	0.007979398	0.087052852	-0.796368456	2506.729213	-0.269168503
13A	13.00397045	0.026007941	0.103754247	0.007988495	0.103179285	-0.557245403	2506.686873	-0.26747493
15A	15.0083053	0.030016611	0.119765866	0.007977717	0.119029139	-0.618946414	2506.27425	-0.250970005
18A	18.01219425	0.036024389	0.143730041	0.007971582	0.142882811	-0.592954338	2506.392418	-0.25569672
21A	21.00278905	0.042005578	0.167569812	0.007978	0.16685739	-0.426964374	2506.750924	-0.270036944
24A	24.00740185	0.048014804	0.191540614	0.007969749	0.190630088	-0.477640164	2506.76881	-0.270752395
27A	26.9760408	0.026976041	0.21519992	0.008008084	0.215323545	0.057413437	2507.067921	-0.282716834
30A	30.0316598	0.03003166	0.239669575	0.007955445	0.238212348	-0.611734586	2506.088626	-0.243545056
35A	35.0258217	0.035025822	0.279400355	0.008003965	0.279642592	0.08662383	2507.213829	-0.288553177
40A	40.0723922	0.040072392	0.31979293	0.007958911	0.318229735	-0.491215847	2506.146224	-0.245848962
45A	44.9654008	0.044965401	0.35873595	0.008005437	0.359264818	0.147208489	2506.880105	-0.2752042
50A	50.0821253	0.050082125	0.399697566	0.007986909	0.399298508	-0.099939661	2506.001015	-0.240040591
60A	60.2254044	0.030112702	0.480711013	0.007989831	0.480487949	-0.046424545	2505.680243	-0.227209731
70A	70.0636634	0.035031832	0.559317042	0.007921571	0.554311427	-0.903033049	2505.329112	-0.213164469
80A	80.302419	0.04015121	0.640424073	0.008009634	0.642490104	0.321566172	2507.788898	-0.311555902
90A	90.0451876	0.045022594	0.718460082	0.008047503	0.723936028	0.756412913	2506.616299	-0.264651975
100A	99.8685198	0.04993426	0.797513375	0.007985633	0.796810507	-0.088210209	2504.497678	-0.179907127

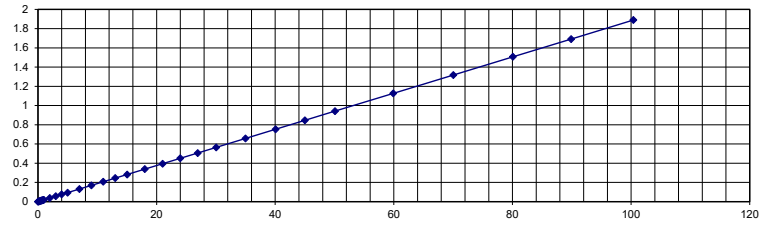
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	47
<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	0.000680873	0.000680873	3.36039E-05	0.0188244	-0.000668056	105.0300981	952.3019331	61.90792268
0.1A	0.100394348	0.100394348	0.00191065	0.018796044	0.001206144	-58.40981054	2469.596139	1.216154459
0.2A	0.199965537	0.199965537	0.003782195	0.018755133	0.003069508	-23.21828612	2484.901257	0.603949731
0.3A	0.300505634	0.300505634	0.005667838	0.018843433	0.004981685	-13.77350004	2491.914173	0.323433065
0.4A	0.40186539	0.40186539	0.007577803	0.018853955	0.006895879	-9.888867265	2492.499786	0.30008549
0.5A	0.501988546	0.501988546	0.009465521	0.018808375	0.008760716	-8.045061015	2492.568778	0.297248886
0.6A	0.600881317	0.600881317	0.011325533	0.018781098	0.010604338	-6.800942878	2493.606407	0.255743727
0.7A	0.699983436	0.699983436	0.01318678	0.018754106	0.012446691	-5.946068423	2494.863965	0.205441388
0.8A	0.800421078	0.800421078	0.015073098	0.018805009	0.014371053	-4.866344877	2496.270564	0.149177439
0.9A	0.901387049	0.901387049	0.016969064	0.01880328	0.016268161	-4.308435886	2496.61334	0.135466393
1A	1.00131807	1.00131807	0.018848095	0.018824932	0.018168872	-3.73838736	2496.907488	0.123700481
2A	2.0024054	2.0024054	0.037652743	0.018802399	0.036928448	-1.961346362	2496.798338	0.128066495
3A	3.00564164	3.00564164	0.056556695	0.018942275	0.056252818	-0.540198996	2497.761871	0.089525153
4A	4.0046397	0.040046397	0.075479991	0.018635107	0.073946015	-2.074454945	2493.61536	0.255385615
5A	4.99451013	0.049945101	0.093926332	0.018795488	0.093193384	-0.786480962	2499.213696	0.031452155
7A	7.00784876	0.035039244	0.131768015	0.018811381	0.131146439	-0.47395595	2499.61185	0.015526008
9A	9.02034808	0.04510174	0.169625906	0.018721118	0.168190132	-0.853661387	2499.360916	0.025563369
11A	11.0098508	0.022019702	0.206871622	0.018860941	0.206975271	0.050077774	2501.372506	-0.054900251
13A	13.01773665	0.026035473	0.244742238	0.01877146	0.243681046	-0.435483989	2499.910222	0.003591117
15A	15.0360294	0.030072059	0.282628539	0.018780058	0.281696628	-0.330820753	2500.431783	-0.017271334
18A	18.01944855	0.036038897	0.338657323	0.018780662	0.337736294	-0.272706445	2500.799553	-0.031982105
21A	21.0168472	0.042033694	0.394950453	0.018809634	0.394638329	-0.079091053	2501.052501	-0.042100056
24A	23.99669355	0.047993387	0.451000272	0.018747759	0.449203359	-0.400022141	2500.762565	-0.030502585
27A	26.9300806	0.026930081	0.505994706	0.018808046	0.505821313	-0.034279546	2501.43682	-0.057472791
30A	30.046455	0.030046455	0.564607618	0.01882179	0.56484719	0.042413529	2501.17664	-0.047065607
35A	34.9801751	0.034980175	0.657469061	0.018847675	0.658614099	0.173855712	2500.601667	-0.024066666
40A	40.0586365	0.040058637	0.753186251	0.018800047	0.752423395	-0.101386491	2499.721567	0.011137325
45A	45.0033913	0.045003391	0.846147876	0.018930909	0.851274213	0.602195778	2499.751463	0.009941473
50A	50.0752896	0.05007529	0.942163519	0.018731442	0.937301499	-0.518725339	2498.015009	0.079399648
60A	59.9185784	0.029959289	1.12654251	0.018854253	1.129039182	0.221132466	2499.837476	0.00650096
70A	70.026783	0.035013392	1.31712516	0.018867768	1.320568256	0.260728368	2498.820083	0.047196699
80A	80.0899492	0.040044975	1.50699465	0.01878432	1.503754335	-0.215481681	2497.837409	0.086503628
90A	89.8904532	0.044945227	1.69109045	0.018903905	1.698599699	0.442084651	2498.300017	0.06799931
100A	100.3946322	0.050197316	1.88966045	0.018822326	1.888979577	-0.036044473	2497.034699	0.118612031

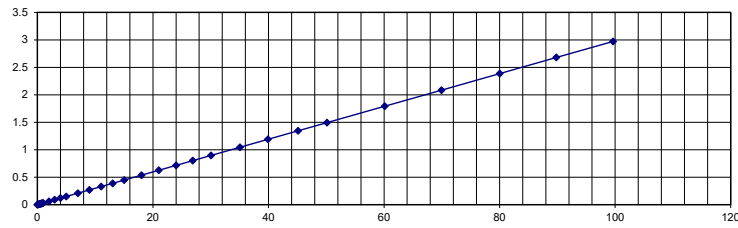
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	75
<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	0.000666644	0.000666644	3.6927E-05	0.029916267	-0.0006467	105.7100634	1353.976444	45.84094223
0.1A	0.100366837	0.100366837	0.003019585	0.029695452	0.002313795	-30.50357063	2492.896788	0.284128485
0.2A	0.200770363	0.200770363	0.006001113	0.02987158	0.005330684	-12.57678683	2509.164213	-0.36656852
0.3A	0.300518638	0.300518638	0.008980751	0.029838368	0.008300342	-8.197365746	2509.689582	-0.387583277
0.4A	0.399849091	0.399849091	0.01194461	0.029810858	0.011253201	-6.144111746	2510.645561	-0.425822446
0.5A	0.500955465	0.500955465	0.014958678	0.029839431	0.014281582	-4.741040372	2511.696597	-0.467863881
0.6A	0.600272402	0.600272402	0.017922239	0.029053857	0.016773585	-6.847994029	2511.986987	-0.4794795
0.7A	0.700840936	0.700840936	0.020844142	0.030466871	0.020685786	-0.765531042	2521.719013	-0.86876052
0.8A	0.800815276	0.800815276	0.023890048	0.029792034	0.023191272	-3.013099587	2514.065541	-0.562621648
0.9A	0.900483266	0.900483266	0.02685936	0.029813874	0.026180251	-2.593974653	2514.439862	-0.577594482
1A	1.00056239	1.00056239	0.029843106	0.029834479	0.029184613	-2.256302107	2514.556586	-0.582263451
2A	2.0023862	2.0023862	0.059667925	0.02980441	0.058949288	-1.219076293	2514.21339	-0.568535606
3A	2.99963336	2.99963336	0.089454296	0.029756576	0.088592175	-0.973134318	2514.943519	-0.597740773
4A	4.00739617	0.040073962	0.119441867	0.029782392	0.1186832	-0.63923677	2516.326313	-0.653052501
5A	4.99832144	0.049983214	0.148953992	0.029801407	0.148290368	-0.447516781	2516.710717	-0.668428678
7A	7.01589836	0.035079492	0.209080623	0.029778926	0.208259271	-0.394389146	2516.696045	-0.667841802
9A	9.01142892	0.045057145	0.268505379	0.029737467	0.267310429	-0.447026942	2517.10849	-0.684339586
11A	11.0477372	0.022095474	0.32906003	0.029831957	0.328908972	-0.045927078	2518.021681	-0.720867253
13A	13.0433694	0.026086739	0.388593643	0.029801113	0.38804028	-0.142604492	2517.418189	-0.696727558
15A	15.0301599	0.03006032	0.447802211	0.029804848	0.447304993	-0.111158576	2517.321185	-0.692847405
18A	18.0130715	0.036026143	0.536707439	0.029807807	0.53626351	-0.082781881	2517.163476	-0.686539021
21A	21.01763305	0.042035266	0.626266829	0.029788282	0.625412533	-0.136597207	2517.014164	-0.680566542
24A	24.010638	0.048021276	0.715423304	0.029828288	0.715529593	0.014854576	2517.108179	-0.684327163
27A	26.907782	0.026907782	0.801840151	0.029868761	0.803035463	0.148849203	2516.815412	-0.67261648
30A	30.0513954	0.030051395	0.895735988	0.029811314	0.895204951	-0.05932012	2516.2042	-0.648167996
35A	35.0813914	0.035081391	1.04568678	0.029771981	1.043775876	-0.183076102	2516.149583	-0.645983303
40A	39.920454	0.039920454	1.18975526	0.029810359	1.189376426	-0.031851452	2516.512556	-0.660502228
45A	45.1295526	0.045129553	1.34504036	0.029759009	1.342344102	-0.200861883	2516.442291	-0.65769164
50A	50.1435459	0.050143546	1.49425183	0.02983076	1.495153433	0.060301706	2516.822042	-0.620437517
60A	60.1315496	0.030065775	1.79220157	0.029757463	1.788695748	-0.195998778	2516.383366	-0.655334656
70A	69.955646	0.034977823	2.08454176	0.029932785	2.093300635	0.418424131	2516.943316	-0.677732645
80A	80.034577	0.040017289	2.38623223	0.02996778	2.39791964	0.48209911	2515.510938	-0.620437517
90A	89.8151306	0.044907565	2.67933371	0.029705422	2.667329752	-0.45003653	2514.108179	-0.564327166
100A	99.6526076	0.049826304	2.97156012	0.029819191	2.970893476	-0.022439174	2515.158795	-0.606351791



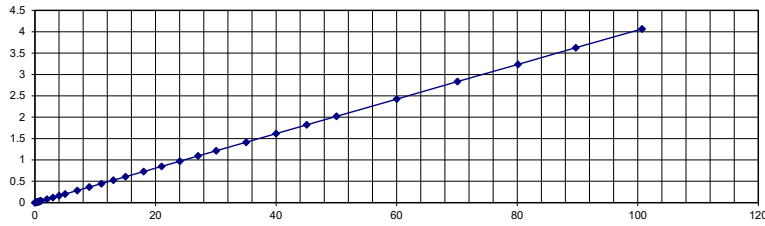
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<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	0.000644889	0.000644889	3.62243E-05	0.040551036	-0.000618738	105.8545518	1780.264229	28.78943082
0.1A	0.099994358	0.099994358	0.004064948	0.040276018	0.003382486	-20.1763616	2459.917158	1.60331367
0.2A	0.200704091	0.200704091	0.008121135	0.040432042	0.007469987	-8.716853592	2471.379743	1.144810268
0.3A	0.300493833	0.300493833	0.012155838	0.040412779	0.011498902	-5.713034532	2472.012424	1.119503046
0.4A	0.400295276	0.400295276	0.016189092	0.040375171	0.015517101	-4.330644808	2472.623394	1.095064257
0.5A	0.500939993	0.500939993	0.02025264	0.040331418	0.019558731	-3.547819966	2473.455315	1.061787417
0.6A	0.601050119	0.601050119	0.024290223	0.040405832	0.023641041	-2.745995001	2474.452865	1.02188539
0.7A	0.700433218	0.700433218	0.02830588	0.040417997	0.027665219	-2.315762593	2474.514917	1.019403326
0.8A	0.801122138	0.801122138	0.032375524	0.040390746	0.031713032	-2.089022155	2474.468461	1.021261546
0.9A	0.900622679	0.900622679	0.036394425	0.040289401	0.03564066	-2.114904009	2474.617113	1.015315494
1A	1.00093824	1.00093824	0.040436079	0.040413138	0.039806167	-1.582449895	2475.359276	0.985628941
2A	2.00385333	2.00385333	0.080967026	0.040424896	0.080360673	-0.754539206	2474.900511	1.003979576
3A	3.00931669	3.00931669	0.121612777	0.040206515	0.120349248	-1.049885402	2474.507008	1.019719663
4A	4.00463792	0.040046379	0.161631175	0.040364402	0.160999926	-0.392080503	2477.639552	0.894417924
5A	5.00455961	0.050045596	0.201992416	0.040394889	0.201513743	-0.237538818	2477.597778	0.896088891
7A	7.0151113	0.035075557	0.283208429	0.040353906	0.28244225	-0.271269374	2477.013599	0.919456038
9A	9.013656	0.04506828	0.363857513	0.0402194	0.361878952	-0.546746733	2477.248834	0.91004662
11A	11.01730235	0.022034605	0.444442968	0.040384195	0.444279996	-0.036682217	2478.901264	0.843949454
13A	13.023922	0.026047844	0.525478687	0.040341891	0.524764746	-0.136049665	2478.487201	0.86051197
15A	15.04343115	0.030086862	0.606949504	0.040353899	0.606416218	-0.087940635	2478.530924	0.858763038
18A	18.0336287	0.036067257	0.727615635	0.040371679	0.727402979	-0.029235026	2478.455359	0.861785632
21A	21.02586465	0.042051729	0.848417224	0.04036093	0.847978557	-0.051730853	2478.245851	0.870165974
24A	24.01775145	0.048035503	0.969172557	0.040430568	0.970406444	0.127151606	2478.170815	0.873167419
27A	27.0774795	0.02707748	1.0928791	0.040692205	1.101197455	0.755391783	2477.628083	0.894876661
30A	30.0668169	0.030066817	1.21452183	0.04028604	1.210026789	-0.371484422	2475.609426	0.975622974
35A	35.0362313	0.035036231	1.41462047	0.040460056	1.416922987	0.162501184	2476.723053	0.93107786
40A	40.0098621	0.040009862	1.61585385	0.040397234	1.615642876	-0.013058198	2476.081738	0.956730462
45A	45.0912387	0.045091239	1.82112741	0.040359964	1.819235878	-0.103973972	2476.006811	0.959727579
50A	50.0397124	0.050039712	2.02084763	0.040358389	2.018877295	-0.097595589	2476.174436	0.953022569
60A	60.0356022	0.030017801	2.42426564	0.040782202	2.447739181	0.958988656	2476.444875	0.942204997
70A	70.1050442	0.035052522	2.83491966	0.039993921	2.803130682	-1.134052669	2472.911144	1.083554234
80A	80.1504252	0.040075213	3.23667383	0.040779227	3.26782752	0.953345601	2476.320736	0.947170571
90A	89.7164348	0.044858217	3.62676831	0.039987461	3.586887567	-1.111848135	2473.729423	1.050823067
100A	100.7233974	0.050361699	4.0669088	0.040377002	4.066263911	-0.015859495	2476.657391	0.933704341

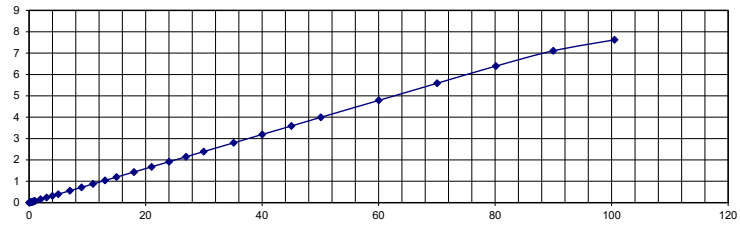
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<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	0.000714003	0.000714003	4.94086E-05	0.080295005	-0.000656672	107.5240841	2890.199408	-15.60797633
0.1A	0.101480183	0.101480183	0.00814043	0.07963659	0.007367533	-10.49057658	2493.239033	0.270438679
0.2A	0.199868006	0.199868006	0.0159757	0.079819723	0.015239406	-4.831514953	2502.150184	-0.086007373
0.3A	0.29984982	0.29984982	0.023956221	0.079830984	0.023223303	-3.155957241	2503.31487	-0.132594787
0.4A	0.401162225	0.401162225	0.03204409	0.079787189	0.031293604	-2.398209924	2503.814128	-0.152565107
0.5A	0.499364694	0.499364694	0.039879389	0.079868107	0.03916931	-1.812845552	2504.374855	-0.174994206
0.6A	0.600312363	0.600312363	0.047941888	0.079809415	0.047196576	-1.579166538	2504.33342	-0.173336811
0.7A	0.700473378	0.700473378	0.05593568	0.079783747	0.055172388	-1.383468079	2504.567306	-0.182692228
0.8A	0.799270315	0.799270315	0.06381807	0.079836817	0.063097194	-1.142485075	2504.840138	-0.19360551
0.9A	0.901238995	0.901238995	0.071958925	0.079792023	0.07119768	-1.069198524	2504.870661	-0.194826425
1A	1.00077564	1.00077564	0.079901155	0.079812648	0.079160551	-0.935571683	2505.034229	-0.201369179
2A	1.99604377	1.99604377	0.15933614	0.079669162	0.158309132	-0.648735715	2505.450138	-0.218005532
3A	3.01089895	3.01089895	0.240188802	0.079676692	0.239184466	-0.419900344	2507.110177	-0.284407097
4A	4.00431656	0.040043166	0.319341031	0.079736805	0.318577406	-0.239698554	2507.862236	-0.314489434
5A	5.00520309	0.050052031	0.399148525	0.079806249	0.398732479	-0.104342076	2507.940166	-0.317606635
7A	7.01732898	0.035086645	0.559728744	0.079629821	0.558074648	-0.296393405	2507.403472	-0.296138874
9A	9.00731748	0.045036587	0.718191172	0.079686472	0.717047348	-0.159518579	2508.334224	-0.33368954
11A	10.99297225	0.021985945	0.876420995	0.079708637	0.87552083	-0.102814827	2508.605411	-0.344216423
13A	13.04213645	0.026084273	1.03975708	0.079700028	1.038744642	-0.097467454	2508.689135	-0.347565414
15A	14.99893475	0.02999787	1.19571396	0.079567918	1.192720004	-0.251019167	2508.783079	-0.351323154
18A	18.0009051	0.03600181	1.43457449	0.079808191	1.435905661	0.09270602	2509.581095	-0.383243815
21A	21.02659505	0.04205319	1.67604933	0.079854777	1.678360056	0.137677614	2509.066371	-0.362654839
24A	24.0351269	0.048070254	1.91629497	0.079545335	1.911168208	-0.268252772	2508.499712	-0.339988473
27A	26.947176	0.026947176	2.14793489	0.080101319	2.15779035	0.456738536	2509.124101	-0.364964042
30A	29.9902049	0.029990205	2.39168552	0.079836495	2.393598843	0.079934976	2507.87193	-0.314877183
35A	35.1067722	0.035106772	2.80017432	0.079902376	2.8044005	0.150698171	2507.470478	-0.298819111
40A	40.0303636	0.040030364	3.19358097	0.079188639	3.169236023	-0.768164528	2506.926486	-0.277059454
45A	45.0178078	0.045017808	3.58852989	0.080352307	3.61657071	0.775342788	2508.983298	-0.359331938
50A	50.0728705	0.050072871	3.99471584	0.079618839	3.986029794	-0.217912221	2506.955313	-0.27821253
60A	60.018501	0.030009251	4.78657539	0.080043514	4.8033777	0.349801974	2507.784631	-0.311385255
70A	70.0464852	0.035023243	5.58925048	0.079689017	5.581221539	-0.143856334	2506.471501	-0.258860039
80A	80.1302354	0.040065118	6.39281462	0.072629866	5.819134284	-9.858516885	2506.884375	-0.27537498
90A	89.992637	0.044996319	7.10911953	0.048834905	4.394067882	-61.78902375	2531.751974	-1.27007894
100A	100.4861854	0.050243093	7.62157097	0.075846953	7.620856967	-0.009369063	2636.889056	-5.47562238



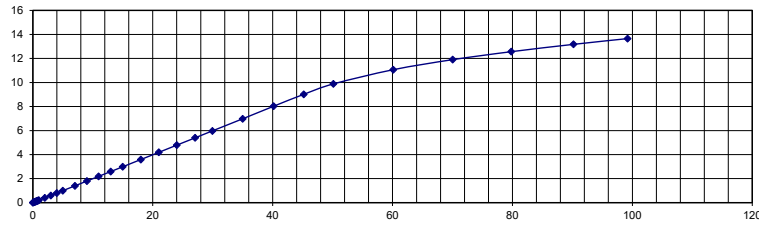
# CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<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	0.000742084	0.000742084	7.49736E-05	0.200821847	-0.000593057	112.6418815	4948.96845	-97.95873801
0.1A	0.100112458	0.100112458	0.020030716	0.199424696	0.019222813	-4.202834464	2498.973564	0.041057445
0.2A	0.199788576	0.199788576	0.039908595	0.199643712	0.039144449	-1.952118638	2503.077031	-0.123081255
0.3A	0.301084092	0.301084092	0.060131608	0.199716443	0.05938936	-1.249799598	2503.542663	-0.141706505
0.4A	0.401012018	0.401012018	0.080088858	0.199719241	0.079347732	-0.934022616	2503.544366	-0.141774653
0.5A	0.500915172	0.500915172	0.10004144	0.199754516	0.099317984	-0.728423922	2503.538394	-0.141535748
0.6A	0.600999963	0.600999963	0.120033829	0.199350665	0.119067659	-0.811446627	2503.460766	-0.138430642
0.7A	0.700367773	0.700367773	0.139842868	0.199373436	0.138892646	-0.684141636	2504.124032	-0.164961291
0.8A	0.800422672	0.800422672	0.159791157	0.199467466	0.158916198	-0.550578679	2504.590013	-0.183600523
0.9A	0.902374085	0.902374085	0.180127147	0.199441962	0.179229174	-0.501019348	2504.825342	-0.193013661
1A	1.00166839	1.00166839	0.199930598	0.199487674	0.199078414	-0.428064574	2505.040249	-0.201609961
2A	2.00111086	2.00111086	0.399307052	0.199271759	0.398022796	-0.322658815	2505.729425	-0.229177019
3A	2.99717199	2.99717199	0.597793905	0.198945748	0.595532539	-0.379721662	2506.860613	-0.274424511
4A	3.99913429	0.39991343	0.797130044	0.19945966	0.796923883	-0.025869642	2508.457886	-0.338315438
5A	5.00284336	0.050028434	0.997329514	0.19965508	0.998101009	0.077296278	2508.119578	-0.324783129
7A	7.02111014	0.035105551	1.40028673	0.199330728	1.398780908	-0.107652431	2507.025879	-0.281035156
9A	9.01358408	0.04506792	1.79744801	0.199808866	1.800251931	0.155751588	2507.328176	-0.293127032
11A	10.97516205	0.021950324	2.18938868	0.198333025	2.175995005	-0.615519563	2506.444413	-0.257776522
13A	13.00842585	0.026016852	2.59265204	0.1988823	2.586403571	-0.241589108	2508.710318	-0.34841274
15A	14.99840555	0.029996811	2.98842378	0.199477146	2.991097043	0.089374002	2509.417448	-0.376697913
18A	18.0086123	0.036017225	3.58889123	0.199647333	3.594629337	0.159629997	2508.938157	-0.357526299
21A	21.0105394	0.042021079	4.18821797	0.199832457	4.197845634	0.229347742	2508.291062	-0.331642481
24A	24.02260775	0.048045216	4.79012699	0.198947119	4.778486512	-0.243601767	2507.512619	-0.300504768
27A	27.0614879	0.027061488	5.39470344	0.200749361	5.43183432	0.683579032	2508.153432	-0.326137297
30A	29.941595	0.029941595	5.9728831	0.199171307	5.962764513	-0.169696232	2506.460825	-0.258432984
35A	35.0101763	0.035010176	6.98239906	0.202300897	7.081847979	1.404279219	2507.030606	-0.281224259
40A	40.1579343	0.040157934	8.02379512	0.197296634	7.922283167	-1.281347193	2502.427698	-0.097107913
45A	45.1978764	0.045197876	9.01815873	0.17533366	7.923967024	-13.80863528	2505.937063	-0.237482513
50A	50.1356078	0.050135608	9.88390925	0.118431617	5.936899006	-66.48269139	2536.2236	-1.448944
60A	60.12023	0.030060115	11.0664042	0.084324944	5.068892915	-118.3199445	2716.339875	-8.653594995
70A	70.0288616	0.035014431	11.901949	0.067828857	4.749235589	-150.6076773	2941.907313	-17.67629251
80A	79.816302	0.039908151	12.5658199	0.058766362	4.689771575	-167.9409796	3175.928934	-27.03715736
90A	90.1844222	0.045092211	13.1751166	0.053119114	4.789774485	-175.0675766	3422.528428	-36.9011371
100A	99.2166004	0.0496083	13.6548979	0.13762715	13.65415582	-0.005434856	3633.004111	-45.32016442

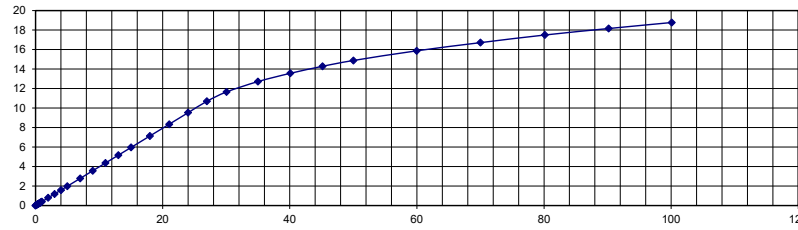
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2500-N
<b>Lot #:</b>	31413
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 18, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<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	0.000697143	0.000697143	0.000152078	0.398799783	-0.000419123	136.2848839	4584.111093	-83.36444373
0.1A	0.099973194	0.099973194	0.039743346	0.397048937	0.038997108	-1.913573377	2515.470004	-0.618800141
0.2A	0.202137818	0.202137818	0.080307701	0.397194282	0.079590842	-0.900679754	2517.041519	-0.681660778
0.3A	0.299988811	0.299988811	0.119173556	0.396756183	0.118325273	-0.716908041	2517.243095	-0.689723818
0.4A	0.400495774	0.400495774	0.159050315	0.396839714	0.158235485	-0.514947503	2518.044519	-0.721780777
0.5A	0.501079699	0.501079699	0.198966011	0.396533728	0.197997858	-0.488971422	2518.418581	-0.736743222
0.6A	0.600863153	0.600863153	0.238533516	0.397037682	0.23786817	-0.279711993	2518.988371	-0.759534857
0.7A	0.701979762	0.701979762	0.27868062	0.396167825	0.277404652	-0.4599662	2518.940004	-0.757600152
0.8A	0.80258847	0.80258847	0.318538553	0.396384261	0.317436294	-0.347237717	2519.596019	-0.783840755
0.9A	0.899725344	0.899725344	0.357042081	0.396195544	0.355770029	-0.357548874	2519.942023	-0.797680932
1A	1.00040739	1.00040739	0.396931859	0.396626259	0.396090698	-0.212365854	2520.350451	-0.814018055
2A	2.00047853	2.00047853	0.793586334	0.396036602	0.791564412	-0.255433696	2520.807686	-0.832307427
3A	2.99902792	2.99902792	1.18904786	0.395777557	1.1862508	-0.235789942	2522.209594	-0.888383753
4A	4.00549924	0.040054992	1.58738662	0.396329165	1.586799026	-0.037030164	2523.329345	-0.933173797
5A	5.00425453	0.050042545	1.98322247	0.396120707	1.981591698	-0.082296043	2523.29459	-0.931783614
7A	7.02096314	0.035104816	2.78208251	0.397540206	2.79041799	0.298717956	2523.635843	-0.945433714
9A	9.0125136	0.045062568	3.57380389	0.396532488	3.573057294	-0.020895149	2521.826568	-0.873062735
11A	11.020169	0.022040338	4.36990448	0.396137444	4.36480444	-0.116844635	2521.832926	-0.87331703
13A	13.0363781	0.026072756	5.1686004	0.39664756	5.170150424	0.029980242	2522.225959	-0.889038356
15A	15.0362022	0.030072404	5.96182575	0.397171357	5.971251683	0.157855224	2522.08012	-0.88320478
18A	17.99767835	0.035995357	7.13803925	0.397155433	7.147178592	0.127873419	2521.375649	-0.855025979
21A	21.02977055	0.042059541	8.34225114	0.39752194	8.359098049	0.20153979	2520.874785	-0.834991405
24A	24.00926285	0.048018526	9.5266647	0.395823244	9.502727175	-0.251901633	2520.217055	-0.808682182
27A	26.9763266	0.026976327	10.7010975	0.309675199	8.353202173	-28.10772777	2520.89345	-0.835738017
30A	30.0668986	0.030066899	11.658171	0.214909351	6.460960536	-80.44021374	2579.040795	-3.161631786
35A	35.00411	0.03500411	12.7192239	0.166373872	5.823072187	-118.428065	2752.063355	-10.0825342
40A	40.0882256	0.040088226	13.5650879	0.142044189	5.693602345	-138.2514106	2955.249969	-18.20999877
45A	45.1631569	0.045163157	14.2859524	0.122476417	5.530724493	-158.301646	3161.368289	-26.45473157
50A	50.0232803	0.05002328	14.8812029	0.09972633	4.987941001	-198.3436031	3361.507846	-34.46031382
60A	59.9776304	0.029988815	15.8739137	0.083497693	5.007296626	-217.0156451	3778.376998	-51.13507994
70A	70.0156778	0.035007839	16.7120675	0.077340376	5.414341683	-208.6629636	4189.528184	-67.58112735
80A	80.1459402	0.04007297	17.4955458	0.066177607	5.303169391	-229.9073537	4580.933977	-83.23735908
90A	90.1696526	0.045084826	18.1588911	0.062166355	5.604821455	-223.9869681	4965.592453	-98.62369812
100A	100.0952354	0.050047618	18.7759284	0.187580641	18.77523126	-0.003713099	5331.040536	-113.2416214