

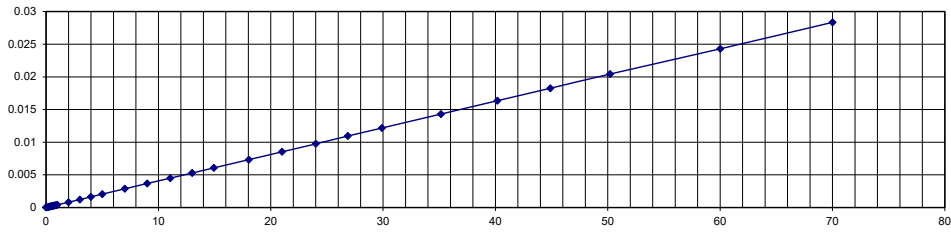
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001855192	0.001855192	3.59709E-05	0.000190445	-0.001854839	101.9393025	51.57475443	97.93700982
0.1A	0.099905541	0.099905541	5.46441E-05	0.000320174	-0.001823205	102.9971446	1828.295296	26.86818817
0.2A	0.200202987	0.200202987	8.67567E-05	0.000394725	-0.001776167	104.8844916	2307.636089	7.69455642
0.3A	0.300382876	0.300382876	0.0001263	0.000463624	-0.001715928	107.3604625	2378.324401	4.867023976
0.4A	0.400963971	0.400963971	0.000172932	0.0003562	-0.001712369	110.0989927	2318.622074	7.255117052
0.5A	0.500006132	0.500006132	0.000208211	0.000375709	-0.001667336	112.4876377	2401.441335	3.942346596
0.6A	0.601351206	0.601351206	0.000246287	0.000417255	-0.001604276	115.3519163	2441.66788	2.333284817
0.7A	0.701713159	0.701713159	0.000288164	0.000388628	-0.001582487	118.2095407	2435.121062	2.595157538
0.8A	0.80238457	0.80238457	0.000327287	0.00044085	-0.001501461	121.7979272	2451.621278	1.935148879
0.9A	0.900964074	0.900964074	0.000370746	0.000440181	-0.001458605	125.4178542	2430.137442	2.794502305
1A	1.00079681	1.00079681	0.000414691	0.000401053	-0.00145382	128.5242044	2413.357844	3.465686233
2A	2.00168209	2.00168209	0.000816098	0.00040482	-0.001044872	178.105097	2452.746092	1.890156328
3A	3.0083536	3.0083536	0.001223619	0.000422325	-0.00058469	309.2763869	2458.570981	1.657160751
4A	3.99826254	0.039982625	0.001641682	0.000412412	-0.000206259	895.9314175	2435.467481	2.581300775
5A	5.01215955	0.050121596	0.002059825	0.000403522	0.000167327	-1131.021376	2433.293305	2.668267799
7A	7.01989122	0.035099456	0.00286999	0.000408963	0.001015683	-182.5675415	2445.963421	2.161463147
9A	9.01427716	0.045071386	0.00368562	0.000396937	0.001722911	-113.9181528	2445.796561	2.168137575
11A	11.057377	0.022114754	0.004496603	0.000404141	0.002613544	-72.050013	2459.051249	1.637950059
13A	13.0048313	0.026009663	0.005283649	0.000406857	0.003435919	-53.77687561	2461.335434	1.546582628
15A	14.94547705	0.029890954	0.006073214	0.000405227	0.004201118	-44.56186488	2460.884117	1.56463534
18A	18.04791825	0.036095837	0.007330407	0.000403752	0.005431691	-34.95626332	2462.062132	1.51751472
21A	21.0156736	0.042031347	0.008528645	0.000406269	0.006682829	-27.62026762	2464.128215	1.434871388
24A	24.018677	0.048037354	0.009748672	0.000420987	0.008256366	-18.07461339	2463.789531	1.448418761
27A	26.8718197	0.02687182	0.010949809	0.00040418	0.009005869	-21.58526595	2454.0902	1.836391982
30A	29.9026478	0.029902648	0.01217481	0.000406594	0.010303049	-18.16706254	2456.107883	1.755684672
35A	35.1539163	0.035153916	0.014309945	0.000406785	0.0124449	-14.98642411	2456.607298	1.73570809
40A	40.1878209	0.040187821	0.016357663	0.000404308	0.014393083	-13.64947685	2456.819193	1.727232286
45A	44.8888069	0.044888807	0.018258312	0.00040927	0.016516447	-10.54624488	2458.540972	1.658361125
50A	50.2144212	0.050214421	0.020437925	0.00039369	0.017913733	-14.09082498	2456.92361	1.723055618
60A	60.0152362	0.030007618	0.02429641	0.000405479	0.022479706	-8.081530442	2470.12735	1.194890603
70A	70.0171298	0.035008565	0.028351965	0.000404929	0.026496772	-7.0015786	2469.568901	1.217243976

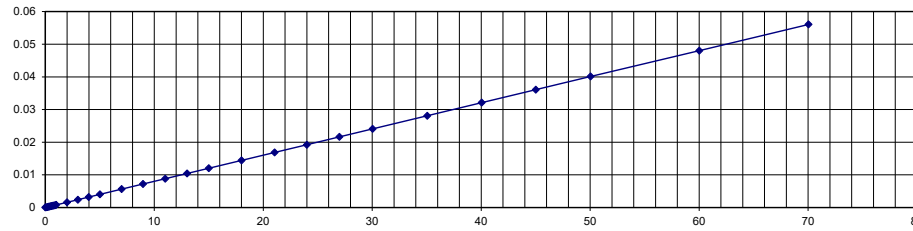
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001662309	0.001662309	2.90331E-05	0.000560691	-0.001661377	101.7475325	114.5112903	95.41954839
0.1A	0.100999099	0.100999099	8.47304E-05	0.000841155	-0.001577354	105.3716796	2384.011537	4.639538506
0.2A	0.200816072	0.200816072	0.000168692	0.000752214	-0.001511253	111.1623909	2380.861549	4.765538052
0.3A	0.301230507	0.301230507	0.000244225	0.000776137	-0.001428513	117.0964522	2466.826596	1.326936164
0.4A	0.399744764	0.399744764	0.000320686	0.00085678	-0.001319816	124.2977488	2493.063122	0.277475105
0.5A	0.499545168	0.499545168	0.000406193	0.000799466	-0.001262294	132.1624615	2459.646836	1.614126562
0.6A	0.600935558	0.600935558	0.000487251	0.000757228	-0.001207264	140.3599063	2466.637654	1.334493836
0.7A	0.700507305	0.700507305	0.000562649	0.000794746	-0.001105584	150.8915931	2490.03189	0.398724417
0.8A	0.801068656	0.801068656	0.00064257	0.000861612	-0.000972099	166.1012863	2493.327209	0.266911644
0.9A	0.901441947	0.901441947	0.000729053	0.000787299	-0.000952605	176.5325522	2472.912494	1.083500247
1A	1.00202763	1.00202763	0.000808244	0.000796512	-0.000864182	193.5270153	2479.518023	0.81927908
2A	1.99601131	1.99601131	0.001599964	0.000803547	-5.84206E-05	2838.700485	2495.070339	0.197186442
3A	2.99653102	2.99653102	0.002403929	0.000813601	0.00077567	-209.9162423	2493.028335	0.278866605
4A	3.99603166	0.039960317	0.003217123	0.000804104	0.001550916	-107.4338006	2484.226822	0.63092713
5A	5.01686049	0.050168605	0.004037976	0.000803484	0.002368659	-70.47519397	2484.839453	0.606421897
7A	7.0094746	0.035047373	0.00563901	0.00079982	0.003944008	-42.97663537	2486.065882	0.557364726
9A	8.9699948	0.044849974	0.007207073	0.000794135	0.005461079	-31.97159212	2489.220058	0.431197684
11A	11.0163348	0.02203267	0.008832143	0.00079979	0.007148445	-23.55334251	2494.600614	0.215975441
13A	13.0185303	0.026037061	0.010433479	0.000801202	0.008768157	-18.99283901	2495.530048	0.178798077
15A	15.0141786	0.030028357	0.012032396	0.000799841	0.01034665	-16.29266745	2495.625825	0.174966987
18A	18.0180831	0.036036166	0.014435042	0.000801594	0.012780887	-12.94241816	2496.436464	0.142541459
21A	21.055664	0.042111328	0.016869951	0.000799817	0.015178378	-11.14461765	2496.233051	0.150677976
24A	23.9992579	0.047998516	0.019224288	0.0008059	0.017678698	-8.742668968	2496.764252	0.129429915
27A	26.9882214	0.026988221	0.021633095	0.000802047	0.019983521	-8.254670557	2495.086512	0.196539518
30A	30.0493624	0.030049362	0.024088275	0.00080184	0.022432482	-7.381227728	2494.936885	0.202524593
35A	35.0594562	0.035059456	0.02810557	0.000802084	0.026458313	-6.225857843	2494.840432	0.206382721
40A	40.0524254	0.040052425	0.03211035	0.000801047	0.030421552	-5.55132094	2494.673876	0.213044954
45A	45.0123163	0.045012316	0.036083454	0.00080242	0.03445647	-4.721852352	2494.900657	0.203973712
50A	50.0510365	0.050051037	0.040126623	0.00079237	0.037996631	-5.605739641	2494.654789	0.213808422
60A	60.0154754	0.030007738	0.048022146	0.000799932	0.046346008	-3.616575425	2499.491611	0.020335576
70A	70.0450082	0.035022504	0.056045093	0.00080013	0.054382784	-3.056683271	2499.594677	0.016212909

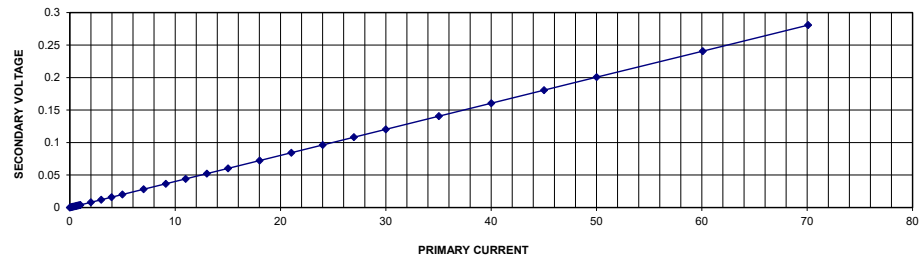
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001673158	0.001673158	3.18401E-05	0.003794183	-0.001666809	101.9102447	525.4869324	78.98052271
0.1A	0.100485426	0.100485426	0.000406752	0.004056782	-0.00126551	132.1413384	2470.434949	1.182602043
0.2A	0.200074649	0.200074649	0.000810764	0.004001957	-0.000872468	192.9276619	2467.730776	1.290768967
0.3A	0.300727104	0.300727104	0.001213571	0.003971889	-0.000478703	353.5122003	2478.035673	0.878573089
0.4A	0.400778126	0.400778126	0.001610962	0.00402383	-6.04946E-05	2762.985762	2487.818466	0.48726137
0.5A	0.501207629	0.501207629	0.002015073	0.004087328	0.000375442	-436.7196519	2487.292195	0.508312208
0.6A	0.601029433	0.601029433	0.002423078	0.004008572	0.000736112	-229.1724571	2480.43795	0.782481989
0.7A	0.700473121	0.700473121	0.002821705	0.003963278	0.001103012	-155.8182541	2482.446273	0.702149076
0.8A	0.800675405	0.800675405	0.003218835	0.004001949	0.001531104	-110.2296164	2487.469921	0.50120315
0.9A	0.900833463	0.900833463	0.003619662	0.004050047	0.00197526	-83.2498678	2488.722643	0.451094281
1A	1.00131615	1.00131615	0.004026622	0.004013984	0.002346109	-71.62975641	2486.740143	0.530394268
2A	2.00103491	2.00103491	0.008039477	0.004008759	0.006348509	-26.63567112	2489.011402	0.439543909
3A	2.99453228	2.99453228	0.012022168	0.004017228	0.010356561	-16.08263203	2490.84213	0.366314791
4A	3.97216942	0.039721694	0.015949559	0.004016001	0.014279077	-11.69881275	2490.457178	0.381712869
5A	5.00818365	0.050081837	0.020110193	0.00401221	0.018420724	-9.171564473	2490.370766	0.385169354
7A	7.01166826	0.035058341	0.028148593	0.004011097	0.026451323	-6.416577404	2490.94805	0.362077992
9A	9.12676686	0.045633834	0.036632458	0.003987573	0.034720494	-5.506732351	2491.442633	0.34229469
11A	11.01173135	0.022023463	0.044148892	0.004016707	0.042557744	-3.738798092	2494.225959	0.230961627
13A	13.0140082	0.026028016	0.052191453	0.004006162	0.050463069	-3.425046826	2493.51332	0.259467199
15A	15.02814035	0.030056281	0.060260392	0.004011524	0.058612591	-2.811343785	2493.866991	0.245320341
18A	18.02167515	0.03604335	0.07226903	0.004016934	0.070718716	-2.192224839	2493.692696	0.252292165
21A	21.0284491	0.042056898	0.084347041	0.004005497	0.082556223	-2.169209936	2493.086749	0.276530032
24A	24.0082214	0.048016443	0.096282509	0.004017057	0.094769239	-1.596795073	2493.518462	0.259261524
27A	26.9841838	0.026984184	0.10823712	0.004007042	0.106453596	-1.675400758	2493.061881	0.277524753
30A	29.9988803	0.02999888	0.120317135	0.004020291	0.118931057	-1.165446989	2493.317373	0.267305068
35A	35.0391531	0.035039153	0.140580496	0.004012452	0.138919751	-1.19547095	2492.461906	0.301523762
40A	40.0158817	0.040015882	0.160549379	0.004011607	0.158854848	-1.066716775	2492.434536	0.302618548
45A	45.0174679	0.045017468	0.180613779	0.004005661	0.178651578	-1.09833964	2492.471402	0.301143912
50A	50.0135394	0.050013539	0.20062635	0.00397359	0.197060165	-1.80969339	2492.869925	0.285203015
60A	60.0879742	0.030043987	0.240658028	0.004003793	0.238906644	-0.733083129	2496.819853	0.127205896
70A	70.0839936	0.035041997	0.280680019	0.004004909	0.279006861	-0.599683374	2496.935615	0.12257538

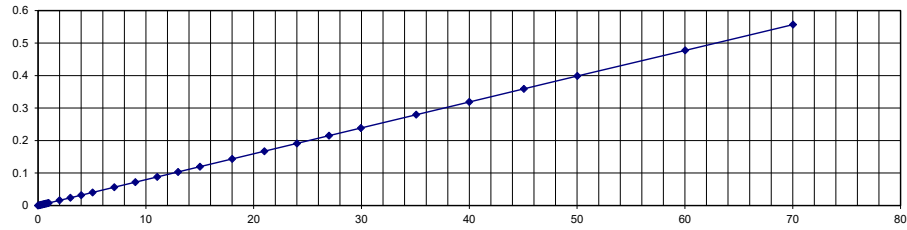
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.00173969	0.00173969	3.31552E-05	0.007839903	-0.001726051	101.9208719	1049.421203	58.02315188
0.1A	0.100471671	0.100471671	0.000807204	0.007949674	-0.000940973	185.7839713	2489.373809	0.425047624
0.2A	0.200894812	0.200894812	0.001605536	0.008021018	-0.000128309	1351.299273	2502.527048	-0.101081908
0.3A	0.300893275	0.300893275	0.002407625	0.008016518	0.000672426	-258.0505645	2499.502736	0.019890555
0.4A	0.401001135	0.401001135	0.003210142	0.007975653	0.001458555	-120.0904729	2498.339248	0.066430092
0.5A	0.499283196	0.499283196	0.003994005	0.007941798	0.002225516	-79.46423818	2500.162981	-0.00651922
0.6A	0.603266821	0.603266821	0.004819822	0.007947338	0.003054675	-57.78510559	2503.274197	-0.130967862
0.7A	0.699603288	0.699603288	0.005585441	0.007986185	0.003847471	-45.17175173	2505.09614	-0.203845583
0.8A	0.805942475	0.805942475	0.006434685	0.007906416	0.004632426	-38.90530183	2504.994328	-0.199773104
0.9A	0.905703989	0.905703989	0.007223441	0.008076187	0.005574944	-29.56974064	2507.680163	-0.307206523
1A	0.99476648	0.99476648	0.007942726	0.007982595	0.006201127	-28.08519727	2504.848924	-0.193956952
2A	2.00163484	2.00163484	0.015980149	0.007943736	0.014160768	-12.8480385	2505.151707	-0.206068295
3A	3.00525974	3.00525974	0.02395268	0.00797206	0.02221842	-7.805504589	2509.330712	-0.37322847
4A	4.00749442	0.040074944	0.031942555	0.007977272	0.030229181	-5.667945143	2509.188437	-0.36753748
5A	5.06160338	0.050616034	0.040351468	0.007971102	0.038606867	-4.518887237	2508.757986	-0.350319448
7A	7.07634026	0.035381701	0.056411142	0.007965662	0.054628046	-3.264065291	2508.84491	-0.353796386
9A	9.03287614	0.045164381	0.071996246	0.007935294	0.069938842	-2.941718407	2509.263105	-0.37052421
11A	11.0581191	0.022116238	0.088067145	0.007984427	0.086553055	-1.749320141	2511.292744	-0.451709773
13A	12.99950525	0.025999011	0.103568001	0.007975167	0.101933529	-1.603468405	2510.332366	-0.413294643
15A	15.02084385	0.030041688	0.119688513	0.007946716	0.11762669	-1.752852644	2509.989217	-0.39956867
18A	18.0095749	0.03601915	0.14343911	0.007970756	0.141810229	-1.148634056	2511.110798	-0.444431927
21A	20.99172455	0.041983449	0.167209096	0.007959366	0.165341119	-1.129771436	2510.835242	-0.433409675
24A	24.01682935	0.048033659	0.191287011	0.008003081	0.190468951	-0.429497596	2511.077906	-0.443116234
27A	27.0009273	0.027000927	0.21516899	0.007959887	0.213184629	-0.930818122	2509.741511	-0.389660425
30A	29.9442676	0.029944268	0.238597645	0.007960725	0.236638384	-0.827955841	2510.022058	-0.400882331
35A	35.0841796	0.03508418	0.27951507	0.007968703	0.277835707	-0.604444753	2510.360504	-0.41442016
40A	39.9981068	0.039998107	0.318672695	0.007985142	0.317650857	-0.321685756	2510.293943	-0.411757713
45A	45.0714371	0.045071437	0.359183956	0.007969395	0.357452394	-0.484417572	2509.657592	-0.386303669
50A	50.0221074	0.050022107	0.398637803	0.007868857	0.391877135	-1.72520098	2509.651971	-0.386078839
60A	60.0337242	0.030016862	0.477417787	0.00794214	0.475056551	-0.497043189	2514.934543	-0.597381723
70A	70.0292758	0.035014638	0.556803857	0.007951015	0.555064167	-0.313421501	2515.401965	-0.616078599

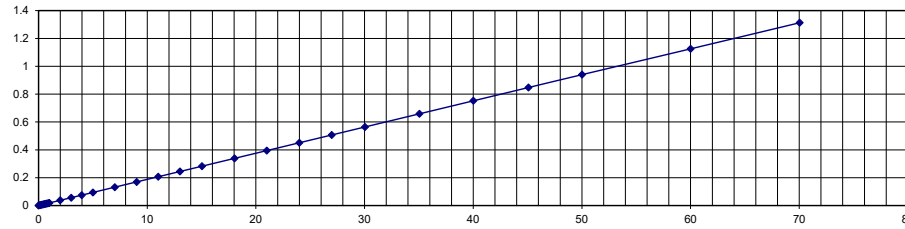
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001716594	0.001716594	3.3528E-05	0.018931012	-0.001684098	101.9908583	2406.345365	3.746185412
0.1A	0.100278852	0.100278852	0.001899411	0.018821142	0.000170768	-1012.275474	2481.350942	0.745962306
0.2A	0.200419083	0.200419083	0.003784165	0.018835006	0.0020583	-83.8490134	2489.240684	0.430372634
0.3A	0.30075298	0.30075298	0.005673954	0.018819193	0.003943334	-43.88724206	2491.276663	0.348933474
0.4A	0.400562792	0.400562792	0.007552294	0.018737973	0.00578914	-30.4562345	2492.812138	0.287514485
0.5A	0.500452356	0.500452356	0.009424022	0.018791343	0.007687577	-22.587674	2495.883375	0.164665008
0.6A	0.601308588	0.601308588	0.011319246	0.018864954	0.009627065	-17.57733977	2496.765477	0.129380924
0.7A	0.703897626	0.703897626	0.013254584	0.018772428	0.011497273	-15.28459128	2495.980913	0.160763487
0.8A	0.800349803	0.800349803	0.015065225	0.018744489	0.013285554	-13.39554039	2496.905273	0.123789078
0.9A	0.901426306	0.901426306	0.016959853	0.018800999	0.015231121	-11.34999718	2498.078072	0.076877125
1A	1.00213616	1.00213616	0.018853299	0.01880947	0.017133056	-10.04048905	2498.257746	0.069690149
2A	2.00181827	2.00181827	0.03765679	0.018788455	0.035894478	-4.909700776	2498.499187	0.060032531
3A	3.00695627	3.00695627	0.05654178	0.018813589	0.054855045	-3.074895811	2499.51354	0.019458397
4A	3.97632679	0.039763268	0.074779118	0.01882627	0.073142808	-2.237144818	2499.191795	0.032328207
5A	5.01190638	0.050119064	0.09427522	0.018762141	0.092317499	-2.120638882	2498.637512	0.054499535
7A	7.02604634	0.035130232	0.132064797	0.018820963	0.130520364	-1.183289293	2500.470871	-0.018834839
9A	9.03294546	0.045164727	0.169836571	0.01872546	0.167429463	-1.437685097	2499.746869	0.010125235
11A	11.0213196	0.022042639	0.207069791	0.018734571	0.204763097	-1.126518337	2501.581803	-0.063272136
13A	13.0204499	0.0260409	0.244522639	0.01881759	0.243296891	-0.503807354	2502.676839	-0.10707357
15A	15.04265005	0.0300853	0.282575572	0.018785809	0.280871763	-0.606614479	2502.001668	-0.080066702
18A	18.04465005	0.0360893	0.338970572	0.018752522	0.336666103	-0.684496948	2501.982834	-0.079313357
21A	21.0022381	0.042004476	0.394432807	0.018813745	0.393414154	-0.258926436	2502.594037	-0.10376147
24A	24.0087042	0.048017408	0.450995693	0.018777436	0.449105319	-0.420919907	2502.039631	-0.081585249
27A	26.9848665	0.026984867	0.506880391	0.018812927	0.50594773	-0.184339428	2502.145966	-0.085838633
30A	30.0461029	0.030046103	0.564471208	0.018819928	0.563748901	-0.128125687	2501.751757	-0.070070274
35A	35.0514054	0.035051405	0.658670641	0.018819608	0.657937132	-0.111486154	2501.122642	-0.044905678
40A	40.0233134	0.040023313	0.752240003	0.018815836	0.751355497	-0.117721408	2500.658995	-0.026359795
45A	45.0909077	0.045090908	0.847591025	0.018755972	0.844007198	-0.42462048	2500.348162	-0.0139265
50A	50.0211865	0.050021187	0.940063195	0.018544585	0.92590557	-1.529057062	2500.891193	-0.035647731
60A	60.0130974	0.030006549	1.12535904	0.018679396	1.119291831	-0.542057799	2506.413933	-0.256557331
70A	70.0376516	0.035018826	1.31261166	0.018741514	1.310895066	-0.130948269	2507.801603	-0.312064124

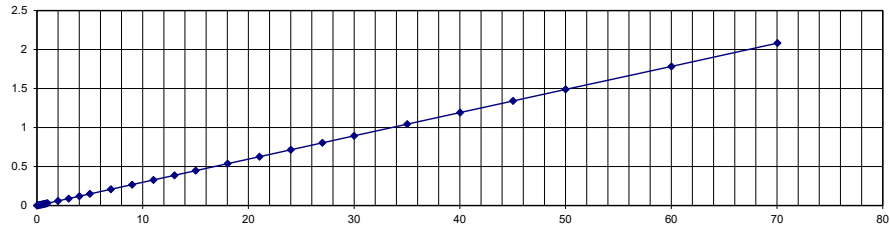
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001783455	0.001783455	5.96306E-05	0.029923889	-0.001730087	103.4466836	2243.127872	10.2748851
0.1A	0.101053336	0.101053336	0.003030172	0.029771153	0.001225058	-147.3493317	2501.178572	-0.047142875
0.2A	0.202318483	0.202318483	0.00604499	0.02980762	0.004247178	-42.32958005	2510.159041	-0.406361634
0.3A	0.299469688	0.299469688	0.008940836	0.02988137	0.007165109	-24.78296738	2512.094632	-0.483785287
0.4A	0.401443465	0.401443465	0.011987952	0.029771371	0.010168067	-17.89804325	2511.543183	-0.461727313
0.5A	0.507378319	0.507378319	0.015141778	0.02949816	0.013183272	-14.85599654	2513.137735	-0.525509418
0.6A	0.602219917	0.602219917	0.017939431	0.03007527	0.016328472	-9.865951463	2517.72169	-0.70886759
0.7A	0.68943548	0.68943548	0.020562462	0.029884136	0.018819729	-9.260140753	2514.662896	-0.586515847
0.8A	0.800732128	0.800732128	0.023888467	0.029755889	0.022043041	-8.371916579	2513.970899	-0.558835955
0.9A	0.901278769	0.901278769	0.026880321	0.029740614	0.025021129	-7.430488991	2514.698659	-0.58794636
1A	1.00102981	1.00102981	0.029846978	0.029834833	0.028082102	-6.284701913	2515.404901	-0.616196043
2A	2.00102581	2.00102581	0.059681692	0.029814027	0.057875183	-3.121388017	2514.622679	-0.584907179
3A	3.00424349	3.00424349	0.089591651	0.029794263	0.087725766	-2.12695147	2514.94709	-0.597883614
4A	4.02306627	0.040230663	0.119946725	0.029764574	0.117961398	-1.683031453	2515.533211	-0.621328427
5A	5.00581547	0.050058155	0.149197836	0.029771878	0.147249071	-1.323448391	2516.364649	-0.654585969
7A	6.9960975	0.034980488	0.208452269	0.029819713	0.206838165	-0.7803705	2517.158077	-0.686323064
9A	9.00930812	0.045046541	0.268485632	0.029691396	0.265715483	-1.042524484	2516.701188	-0.668047518
11A	11.02513925	0.022050279	0.328338473	0.029712496	0.325800951	-0.778856452	2518.393401	-0.735736046
13A	13.02156735	0.026043135	0.387657335	0.029846773	0.386868308	-0.20395246	2519.280465	-0.771218607
15A	15.03006225	0.030060125	0.447604426	0.029737793	0.445177431	-0.545174807	2518.417163	-0.736686527
18A	18.03991385	0.036079828	0.537110771	0.029652147	0.533138719	-0.745031589	2519.021423	-0.760856926
21A	21.05835685	0.042116714	0.626614086	0.029944286	0.628794004	0.346682424	2520.493553	-0.819742105
24A	24.0147837	0.048029567	0.715142177	0.029786965	0.713544057	-0.223969404	2518.532448	-0.741297908
27A	26.999264	0.026999264	0.804040786	0.029913302	0.805853679	0.224965484	2518.460301	-0.738412044
30A	30.0052564	0.030005256	0.893959944	0.029839459	0.893557157	-0.045076793	2517.332287	-0.693291466
35A	35.0316296	0.03503163	1.0439442	0.029771432	1.041158316	-0.267575484	2516.774575	-0.670982989
40A	40.0267377	0.040026738	1.19265572	0.02961232	1.18350111	-0.773519317	2517.0762	-0.683047996
45A	45.0301606	0.045030161	1.34081868	0.029806818	1.340422361	-0.029566753	2518.805932	-0.752237282
50A	50.0043329	0.050004333	1.48908293	0.029456692	1.47117876	-1.216994901	2518.546746	-0.74186983
60A	60.0209778	0.030010489	1.78414015	0.029784148	1.785890259	0.097996462	2523.105225	-0.924209009
70A	70.0411246	0.035020562	2.08258169	0.029733699	2.080798235	-0.085710134	2522.390536	-0.895621434

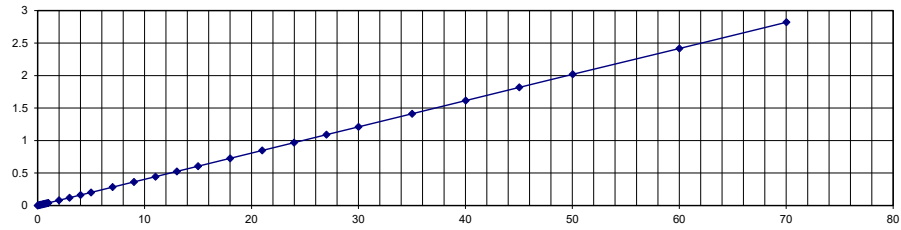
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>URNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001806439	0.001806439	7.74792E-05	0.040447962	-0.001733372	104.4698545	2331.514309	6.739427657
0.1A	0.100181946	0.100181946	0.004056568	0.040351512	0.002236054	-81.41638947	2469.623263	1.215069499
0.2A	0.200177557	0.200177557	0.008091542	0.040431144	0.006286968	-28.70339981	2473.911092	1.043556335
0.3A	0.300438942	0.300438942	0.012145225	0.040419603	0.010337184	-17.49065412	2473.720758	1.051169692
0.4A	0.401419651	0.401419651	0.016226825	0.040370164	0.014398938	-12.69459575	2473.802829	1.04788683
0.5A	0.500424535	0.500424535	0.020223668	0.040289992	0.018355661	-10.17673359	2474.449887	1.022004505
0.6A	0.60157063	0.60157063	0.024298844	0.04043806	0.02251991	-7.899382949	2475.717116	0.971315359
0.7A	0.700993363	0.700993363	0.028319306	0.040367305	0.026490773	-6.902526563	2475.319709	0.987211622
0.8A	0.799969959	0.799969959	0.032314724	0.040459765	0.030560157	-5.741354743	2475.558662	0.977653518
0.9A	0.901661538	0.901661538	0.036429142	0.040395038	0.034616213	-5.237223979	2475.110567	0.995577337
1A	1.00209891	1.00209891	0.040486313	0.040397804	0.038676156	-4.680293624	2475.154758	0.993809678
2A	2.00191093	2.00191093	0.080876523	0.040379121	0.079028963	-2.337825734	2475.268296	0.989268172
3A	2.99544483	2.99544483	0.120994548	0.040298112	0.118904333	-1.757896065	2475.685789	0.97256845
4A	4.01449107	0.040144911	0.162060188	0.040376522	0.160284748	-1.107678566	2477.160566	0.913577368
5A	5.00995769	0.050099577	0.202253668	0.040366368	0.200427356	-0.911209144	2477.066418	0.917343264
7A	7.0267276	0.035133638	0.283663344	0.040354235	0.281751776	-0.678458321	2477.136277	0.914548903
9A	9.0135204	0.045067602	0.363838847	0.04006074	0.359281862	-1.268359324	2477.338655	0.906453785
11A	11.033838	0.022067676	0.444774266	0.040461953	0.4446442	-0.029251634	2480.772572	0.769097104
13A	13.02358175	0.026047164	0.525283185	0.040336912	0.523524627	-0.335907436	2479.344879	0.826204821
15A	15.0044929	0.030008986	0.605187023	0.040428459	0.604802093	-0.063645592	2479.315043	0.827398277
18A	18.0064481	0.036012896	0.726551447	0.040371014	0.725132127	-0.195732586	2478.344538	0.866218494
21A	21.0121819	0.042024364	0.847895968	0.040288209	0.844736729	-0.373990942	2478.155657	0.873773703
24A	23.9933451	0.04798669	0.968001693	0.04056878	0.971574295	0.367712709	2478.647018	0.854119271
27A	27.0230711	0.027023071	1.09091398	0.040110132	1.082092514	-0.815222862	2477.103749	0.915850029
30A	30.0074123	0.030007412	1.2106163	0.040280719	1.206913714	-0.306781354	2478.688937	0.852442512
35A	35.0192009	0.035019201	1.41249475	0.040435612	1.414216373	0.12173686	2479.244677	0.830212926
40A	40.0400249	0.040040025	1.61551484	0.04047201	1.618693859	0.196394115	2478.468406	0.861263769
45A	45.0481448	0.045048145	1.81820352	0.04033749	1.815322635	-0.158698209	2477.618391	0.895264354
50A	50.0435335	0.050043534	2.01970496	0.039831632	1.991509162	-1.41580057	2477.764549	0.889418027
60A	60.0108324	0.030005416	2.41671874	0.040302722	2.416793437	0.003090749	2483.153352	0.673865921
70A	70.0302798	0.03501514	2.82052974	0.04027586	2.818723301	-0.064087145	2482.876844	0.684926229

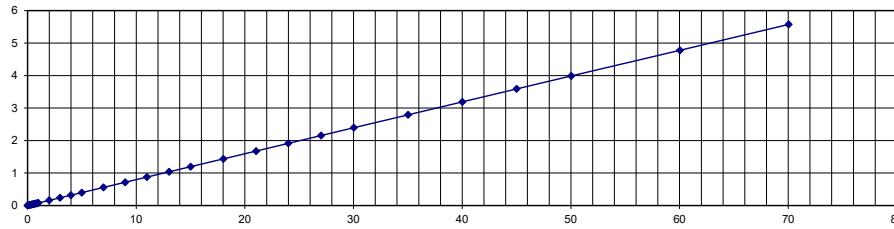
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.00174487	0.00174487	0.000142577	0.08013687	-0.001605042	108.8830658	2447.619497	2.095220135	
0.1A	0.100341111	0.100341111	0.008043771	0.079667639	0.006249069	-28.71950335	2494.877365	0.204905386	
0.2A	0.200343962	0.200343962	0.016010762	0.079728283	0.01422821	-12.5282939	2502.616203	-0.104648111	
0.3A	0.300780999	0.300780999	0.024018435	0.079827356	0.022265682	-7.871992041	2504.584543	-0.183381727	
0.4A	0.395811635	0.395811635	0.031604479	0.079889649	0.029876382	-5.784155547	2504.781909	-0.19127637	
0.5A	0.499954058	0.499954058	0.039924381	0.079998704	0.038250807	-4.375263876	2504.505025	-0.180201018	
0.6A	0.600960349	0.600960349	0.048004753	0.079711803	0.046158763	-3.999219305	2503.753536	-0.150141425	
0.7A	0.702297332	0.702297332	0.056082507	0.079816118	0.054309776	-3.264108727	2504.514779	-0.18059118	
0.8A	0.801864524	0.801864524	0.064029573	0.079760797	0.062212484	-2.920779512	2504.669277	-0.186771072	
0.9A	0.896087964	0.896087964	0.07154491	0.079789019	0.06975311	-2.568774862	2504.966364	-0.198654552	
1A	1.00074849	1.00074849	0.079895671	0.079837243	0.07815213	-2.230956889	2505.13822	-0.205528784	
2A	2.00126913	2.00126913	0.15977448	0.079751257	0.157858859	-1.213502242	2505.117375	-0.204695018	
3A	3.000352	3.000352	0.239452595	0.079695653	0.237370143	-0.877301557	2506.009175	-0.240366992	
4A	4.00350829	0.040035083	0.319399791	0.079672515	0.317224705	-0.685661064	2506.894746	-0.275789849	
5A	5.00030362	0.050003036	0.398816982	0.079723909	0.396898888	-0.483272339	2507.568055	-0.302722215	
7A	6.99267466	0.034963373	0.557656589	0.079803531	0.556295261	-0.244713187	2507.878432	-0.315137279	
9A	8.99740022	0.044987001	0.717640768	0.079516274	0.713694868	-0.552883272	2507.494173	-0.299766916	
11A	10.9958907	0.021991781	0.876553284	0.079863139	0.876421474	-0.015039516	2508.892705	-0.35570821	
13A	13.0274955	0.026054991	1.03880362	0.079483964	1.033732115	-0.4906015	2508.172911	-0.326916458	
15A	15.01996545	0.030039931	1.19717303	0.079591299	1.193713689	-0.289796554	2509.238861	-0.369554433	
18A	18.02799225	0.036055985	1.43658579	0.079888752	1.43848894	0.132302008	2509.838588	-0.3935435	
21A	21.03158165	0.042063163	1.6765388	0.079767758	1.675897255	-0.038280697	2508.928711	-0.35714843	
24A	24.00174785	0.048003496	1.9134623	0.07993177	1.916757312	0.171905556	2508.724405	-0.348976199	
27A	27.0151613	0.027015161	2.15432977	0.079871447	2.155995141	0.077243731	2507.987558	-0.319502339	
30A	30.0363943	0.030036394	2.39564002	0.079433783	2.384159569	-0.481530308	2507.588289	-0.3035158	
35A	35.0170537	0.035017054	2.79127264	0.079955243	2.798052164	0.242294412	2509.03858	-0.361543185	
40A	40.0111212	0.040011121	3.19057452	0.079649217	3.185109611	-0.171576802	2508.082538	-0.323301523	
45A	45.0115937	0.045011594	3.58885824	0.079655961	3.583696863	-0.144023815	2508.407448	-0.336297931	
50A	50.0379711	0.050037971	3.98923916	0.078868062	3.944652959	-1.130294639	2508.647343	-0.345893727	
60A	60.0442916	0.030022146	4.77841827	0.079680902	4.782638416	0.088238866	2513.14507	-0.52580282	
70A	70.049203	0.035024602	5.57561863	0.079595747	5.57387376	-0.031304441	2512.697071	-0.507882836	



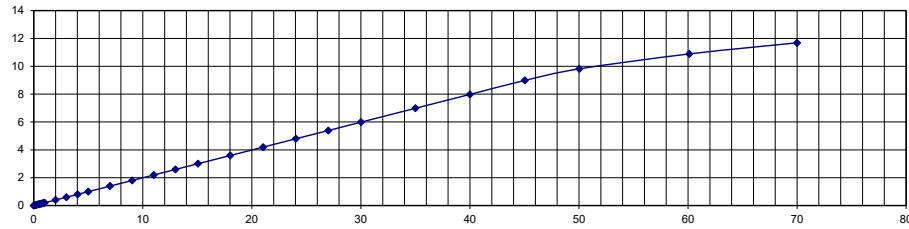
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001701572	0.001701572	0.000345913	0.199715133	-0.001361743	125.4022122	2459.539826	1.618406963
0.1A	0.103493763	0.103493763	0.020675354	0.199997322	0.018996903	-8.835390492	2502.829335	-0.113173397
0.2A	0.199444175	0.199444175	0.039865179	0.199709337	0.038129292	-4.552634566	2501.4835	-0.059340007
0.3A	0.301019695	0.301019695	0.060150759	0.199763686	0.058431232	-2.942822151	2502.210288	-0.08841152
0.4A	0.400420212	0.400420212	0.080007373	0.199835678	0.078356714	-2.106594546	2502.395714	-0.095828544
0.5A	0.500760765	0.500760765	0.100069029	0.196550785	0.096723349	-3.459019695	2502.076666	-0.08306666
0.6A	0.601582036	0.601582036	0.119885529	0.202987326	0.120411956	0.437188646	2508.9852	-0.359408015
0.7A	0.700903508	0.700903508	0.140046529	0.199543667	0.138159284	-1.365992326	2502.395143	-0.09580573
0.8A	0.800551336	0.800551336	0.159930622	0.199608103	0.158094961	-1.161113046	2502.808174	-0.112326956
0.9A	0.900757644	0.900757644	0.179932613	0.199740866	0.178216539	-0.96291486	2503.041636	-0.121665437
1A	1.0026632	1.0026632	0.200287317	0.199758585	0.198589009	-0.855187203	2503.062138	-0.122485539
2A	2.01147997	2.01147997	0.401807127	0.199456743	0.399501672	-0.577082816	2503.041677	-0.12166708
3A	3.0032062	3.0032062	0.599613611	0.199359414	0.597015856	-0.435123305	2504.284547	-0.171381867
4A	4.0283348	0.040283348	0.803982648	0.19949735	0.801940544	-0.254645341	2505.237402	-0.209496064
5A	5.00927912	0.050092791	0.99967844	0.199463401	0.997466276	-0.221778303	2505.445211	-0.217806438
7A	7.00371724	0.035018586	1.39749585	0.199297902	1.394124577	-0.241820045	2505.809674	-0.232386951
9A	9.03336736	0.045166837	1.80200086	0.198554174	1.791911221	-0.563065793	2506.482533	-0.259301319
11A	11.00477865	0.022009557	2.1934328	0.199974638	2.198975058	0.252038249	2508.574379	-0.342975176
13A	13.00543665	0.026010873	2.59351366	0.199179764	2.588718237	-0.185243151	2507.300588	-0.292023525
15A	15.06883185	0.030137664	3.00450023	0.198874233	2.99510081	-0.313826506	2507.710217	-0.308408697
18A	18.019399	0.036038798	3.59129201	0.200265181	3.606956624	0.434288956	2508.762717	-0.350508674
21A	21.03741665	0.042074833	4.19569586	0.199547759	4.196267771	0.013629048	2507.023549	-0.280941956
24A	24.04559025	0.048091181	4.79597016	0.199323933	4.79116004	-0.100395725	2506.853613	-0.274144533
27A	27.0067599	0.02700676	5.38620214	0.2003208	5.408314183	0.408852785	2507.031782	-0.281271286
30A	30.0124308	0.030012431	5.98830054	0.199681968	5.991239666	0.049057054	2505.922223	-0.236888912
35A	35.0049428	0.035004943	6.98521516	0.199150036	6.969534056	-0.224995019	2505.645281	-0.225811226
40A	39.9984264	0.039998426	7.9796676	0.199694614	7.985768756	0.076400364	2506.271464	-0.25085857
45A	45.032878	0.045032878	8.98502047	0.166172047	7.481503926	-20.09644797	2505.997518	-0.239900733
50A	50.0263598	0.05002636	9.81479756	0.106303753	5.316288233	-84.61748368	2548.517149	-1.940685978
60A	60.1322028	0.030066101	10.8890866	0.080552468	4.842095742	-124.8837524	2761.122443	-10.44489774
70A	69.999034	0.034999517	11.6838842	0.166914935	11.68218263	-0.014565535	2995.53782	-19.82151278

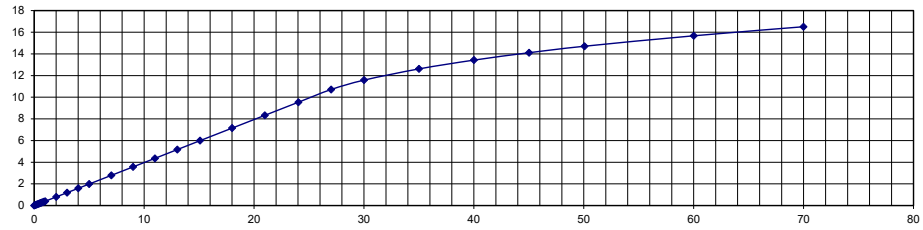
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8449-2500-N
<b>Lot #:</b>	31484
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	July 17, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	50
<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	0.001697447	0.001697447	0.000686356	0.397594546	-0.001022551	167.1219156	2473.128957	1.074841721
0.1A	0.099994979	0.099994979	0.039768919	0.397823769	0.038082933	-4.427143235	2514.400251	-0.57601003
0.2A	0.200203655	0.200203655	0.079634312	0.398184517	0.078020549	-2.068381946	2514.037611	-0.561504444
0.3A	0.300501905	0.300501905	0.119571522	0.397485229	0.117747622	-1.548991084	2513.156143	-0.526245706
0.4A	0.400171903	0.400171903	0.159188874	0.397042837	0.157187941	-1.272955831	2513.81829	-0.552731594
0.5A	0.500488527	0.500488527	0.199018871	0.397596151	0.197294865	-0.873821867	2514.779249	-0.59116997
0.6A	0.600442153	0.600442153	0.238760048	0.39706001	0.23671412	-0.864303221	2514.835116	-0.593404639
0.7A	0.700222612	0.700222612	0.278378878	0.398042676	0.277021036	-0.490158577	2515.358267	-0.614330661
0.8A	0.801380936	0.801380936	0.318644208	0.397013887	0.316461914	-0.689591477	2514.97098	-0.598839192
0.9A	0.901350361	0.901350361	0.358333458	0.3971318	0.356257445	-0.582728359	2515.395481	-0.615819246
1A	1.00123727	1.00123727	0.398001726	0.397398757	0.396193	-0.456526595	2515.660623	-0.626424922
2A	2.00175117	2.00175117	0.795604706	0.397207046	0.793412222	-0.276336089	2516.012229	-0.640489173
3A	3.00178042	3.00178042	1.19282337	0.395828077	1.186491526	-0.533661158	2516.533877	-0.661355084
4A	4.00944532	0.040094453	1.59168543	0.397623063	1.592550484	0.054318788	2518.993543	-0.759741703
5A	5.00592459	0.050059246	1.98790857	0.39704335	1.985871624	-0.102571901	2518.186533	-0.727461324
7A	7.01956116	0.035097806	2.78740958	0.396305282	2.780191715	-0.259617523	2518.309907	-0.732396277
9A	8.99421988	0.044971099	3.56997726	0.395324726	3.553940066	-0.451251105	2519.40537	-0.776214804
11A	10.98943315	0.021978866	4.3587344	0.398132548	4.373553574	0.338835991	2521.244045	-0.849761802
13A	13.02049465	0.026040989	5.16736609	0.398166091	5.182622009	0.294366814	2519.754634	-0.790185353
15A	15.09094075	0.030181882	5.99174752	0.396983248	5.989153235	-0.043316398	2518.620936	-0.744837459
18A	18.0091592	0.036018318	7.15023136	0.396212545	7.133757351	-0.230930329	2518.682025	-0.747280994
21A	20.9942269	0.041988454	8.33295263	0.396842851	8.329711414	-0.038911505	2519.422326	-0.776893052
24A	24.03708945	0.048074179	9.54049088	0.393701477	9.461740173	-0.832306807	2519.481414	-0.779256549
27A	27.0154258	0.027015426	10.7130663	0.288805865	7.800515958	-37.33791915	2521.726744	-0.869069764
30A	30.022202	0.030022202	11.5814409	0.207441511	6.226153499	-86.01277503	2592.26829	-3.690731608
35A	35.0171849	0.035017185	12.6176077	0.162076806	5.67377603	-122.3846629	2775.263404	-11.01053617
40A	40.0133131	0.040013313	13.4273642	0.135982694	5.439420656	-146.8528369	2979.982706	-19.19930823
45A	45.025987	0.045025987	14.1090011	0.118786679	5.346790013	-163.8779729	3191.295165	-27.65180662
50A	50.0670169	0.050067017	14.7078083	0.097002808	4.854943795	-202.9449757	3404.111332	-36.16445327
60A	60.0159	0.03000795	15.6728779	0.083717096	5.022659419	-212.0434135	3829.283963	-53.17135853
70A	70.000194	0.035000097	16.508734	0.235838404	16.50703655	-0.010283171	4240.191525	-69.60766101