

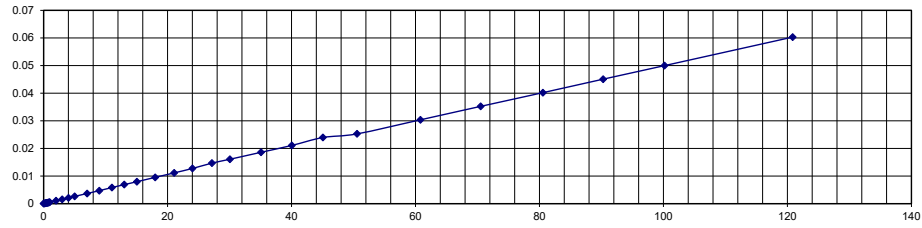
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 1 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |

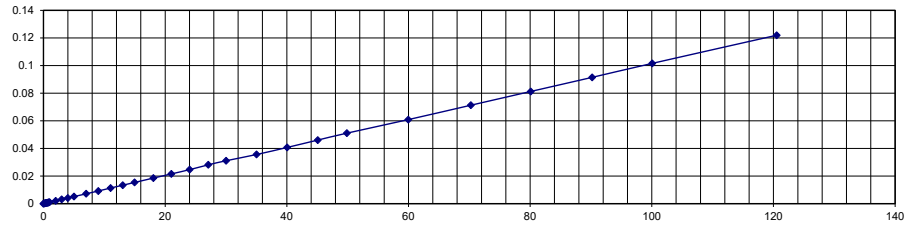


| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.000719534 | 0.000719534 | 2.30175E-05 | 0.0003783 | -0.000719261 | 103.2001546 | 31.26031655 | 98.43698417 |
| 0.1A | 0.100265204 | 0.100265204 | 6.06756E-05 | 0.000573095 | -0.000662072 | 109.1644968 | 1652.4805 | 17.37597501 |
| 0.2A | 0.201083767 | 0.201083767 | 0.000118454 | 0.000548721 | -0.000609195 | 119.444397 | 1697.56503 | 15.1217485 |
| 0.3A | 0.300150222 | 0.300150222 | 0.000172814 | 0.000467058 | -0.000579346 | 129.8291729 | 1736.83877 | 13.15806148 |
| 0.4A | 0.40109851 | 0.40109851 | 0.000219963 | 0.000480288 | -0.000526891 | 141.7473227 | 1823.482999 | 8.825850071 |
| 0.5A | 0.500797748 | 0.500797748 | 0.000267847 | 0.00053606 | -0.000451076 | 159.3796278 | 1869.714532 | 6.514273395 |
| 0.6A | 0.600432328 | 0.600432328 | 0.000321257 | 0.000587142 | -0.000366995 | 187.5373471 | 1869.007548 | 6.549622584 |
| 0.7A | 0.700153828 | 0.700153828 | 0.000379808 | 0.000538158 | -0.00034274 | 210.8150698 | 1843.441555 | 7.82792225 |
| 0.8A | 0.800844852 | 0.800844852 | 0.000433996 | 0.000459697 | -0.000351388 | 223.5089872 | 1845.283144 | 7.735842798 |
| 0.9A | 0.900348596 | 0.900348596 | 0.000479737 | 0.000487881 | -0.000280271 | 271.1690807 | 1876.753819 | 6.162309044 |
| 1A | 0.999974162 | 0.999974162 | 0.000528343 | 0.000528503 | -0.000191045 | 376.5543689 | 1892.662472 | 5.366876416 |
| 2A | 2.00551252 | 2.00551252 | 0.001059772 | 0.000526351 | 0.000338069 | -215.34356 | 1892.399738 | 5.380013104 |
| 3A | 3.00468433 | 3.00468433 | 0.001585687 | 0.000508032 | 0.000806943 | -96.505498 | 1894.878818 | 5.256059078 |
| 4A | 4.01350517 | 0.040135052 | 0.0020982 | 0.000529163 | 0.001404266 | -49.41613182 | 1912.832281 | 4.358385955 |
| 5A | 5.01120689 | 0.050112069 | 0.002626147 | 0.000524272 | 0.0019077 | -37.66042234 | 1908.197092 | 4.590145383 |
| 7A | 7.0257408 | 0.035128704 | 0.00368231 | 0.000524 | 0.002961955 | -24.3202592 | 1907.970884 | 4.601455801 |
| 9A | 8.99973058 | 0.044998653 | 0.004716681 | 0.00053701 | 0.004263631 | -10.62592955 | 1908.064257 | 4.596787154 |
| 11A | 11.02905415 | 0.022058108 | 0.005840321 | 0.000528842 | 0.005113095 | -14.22281593 | 1888.433006 | 5.578349691 |
| 13A | 13.02778095 | 0.026055562 | 0.006897331 | 0.000521799 | 0.006078356 | -13.47363793 | 1888.814685 | 5.559265742 |
| 15A | 15.04963905 | 0.030099278 | 0.007952336 | 0.000533255 | 0.007305755 | -8.850297934 | 1892.480284 | 5.375985824 |
| 18A | 18.0099582 | 0.036019916 | 0.00953094 | 0.000528577 | 0.008800111 | -8.304764586 | 1889.630916 | 5.518454212 |
| 21A | 21.05682875 | 0.042113658 | 0.011141445 | 0.000542028 | 0.010693857 | -4.185467229 | 1889.955001 | 5.502249955 |
| 24A | 24.0271616 | 0.048054323 | 0.012751448 | 0.00061542 | 0.014067266 | 9.353759961 | 1884.269269 | 5.786536556 |
| 27A | 27.1700914 | 0.027170091 | 0.01468567 | 0.000483131 | 0.012407173 | -18.36436014 | 1850.109029 | 7.494548563 |
| 30A | 30.063418 | 0.030063418 | 0.016083525 | 0.000502435 | 0.014385365 | -11.80477712 | 1869.20574 | 6.539712991 |
| 35A | 35.0939558 | 0.035093956 | 0.018611041 | 0.000499996 | 0.01682731 | -10.60021353 | 1885.65247 | 5.717376522 |
| 40A | 40.0337803 | 0.04003378 | 0.021080935 | 0.000571514 | 0.022160352 | 4.870937813 | 1899.051492 | 5.047425412 |
| 45A | 45.0689955 | 0.045068996 | 0.023958633 | 0.000238944 | 0.010049417 | -138.408181 | 1881.117153 | 5.944142347 |
| 50A | 50.5691133 | 0.033712742 | 0.025272851 | 0.000498121 | 0.024469982 | -3.281037804 | 2000.926318 | -0.046315906 |
| 60A | 60.78895545 | 0.04052597 | 0.030363565 | 0.000501712 | 0.029779 | -1.963010741 | 2002.036179 | -0.101808945 |
| 70A | 70.52451705 | 0.047016345 | 0.035248011 | 0.000493977 | 0.03411794 | -3.312246265 | 2000.808439 | -0.040421927 |
| 80A | 80.5535295 | 0.026851177 | 0.04020211 | 0.000502652 | 0.03977083 | -1.084412423 | 2003.713977 | -0.185698836 |
| 90A | 90.2592408 | 0.030086414 | 0.045080702 | 0.000495915 | 0.04404138 | -2.359876212 | 2002.170277 | -0.108513839 |
| 100A | 100.1664243 | 0.033388808 | 0.049993823 | 0.000499713 | 0.049334892 | -1.335627402 | 2003.57602 | -0.17880099 |
| 120A | 120.8337558 | 0.040277919 | 0.060321549 | 0.000499211 | 0.059602015 | -1.207230342 | 2003.160691 | -0.158034569 |

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |



TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 2 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |

| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.000757028 | 0.000757028 | 2.66593E-05 | 0.000926859 | -0.000756326 | 103.5248387 | 56.79282321 | 97.16035884 |
| 0.1A | 0.100125775 | 0.100125775 | 0.00011876 | 0.000955684 | -0.000661339 | 117.9575125 | 1686.186095 | 15.69069525 |
| 0.2A | 0.200550576 | 0.200550576 | 0.000214734 | 0.000966492 | -0.000563197 | 138.1277502 | 1867.894289 | 6.605285536 |
| 0.3A | 0.29993037 | 0.29993037 | 0.000310784 | 0.001062891 | -0.000438234 | 170.9173485 | 1930.152114 | 3.492394315 |
| 0.4A | 0.400871417 | 0.400871417 | 0.000418074 | 0.001066928 | -0.000329327 | 226.9479342 | 1917.707752 | 4.114612405 |
| 0.5A | 0.499186795 | 0.499186795 | 0.000522969 | 0.000967984 | -0.000273823 | 290.9880311 | 1909.049475 | 4.54752624 |
| 0.6A | 0.599542679 | 0.599542679 | 0.000620112 | 0.000989973 | -0.000163496 | 479.2816713 | 1933.659878 | 3.317006085 |
| 0.7A | 0.705195768 | 0.705195768 | 0.000724706 | 0.000998054 | -5.32039E-05 | 1462.128555 | 1946.157988 | 2.692100597 |
| 0.8A | 0.800425149 | 0.800425149 | 0.00081975 | 0.001069715 | 9.91991E-05 | -726.3677112 | 1952.85261 | 2.357369514 |
| 0.9A | 0.900945043 | 0.900945043 | 0.000927277 | 0.001050782 | 0.000189669 | -388.8931262 | 1943.205174 | 2.839741298 |
| 1A | 1.00126075 | 1.00126075 | 0.001032687 | 0.001013882 | 0.000258133 | -300.0602032 | 1939.136537 | 3.04317316 |
| 2A | 2.00216519 | 2.00216519 | 0.002047487 | 0.001008379 | 0.001261914 | -62.25248323 | 1955.729732 | 2.213513409 |
| 3A | 3.00543724 | 3.00543724 | 0.003059165 | 0.001018264 | 0.002303302 | -32.81650978 | 1964.874136 | 1.756293216 |
| 4A | 4.00411764 | 0.040041176 | 0.004076086 | 0.001017904 | 0.003318778 | -22.8188805 | 1964.687622 | 1.765618878 |
| 5A | 5.0166969 | 0.050166969 | 0.005106794 | 0.001014825 | 0.004334044 | -17.82975757 | 1964.71489 | 1.764255494 |
| 7A | 7.03371626 | 0.035168581 | 0.007153716 | 0.001022034 | 0.006431668 | -11.22645052 | 1966.450952 | 1.677452424 |
| 9A | 9.00812358 | 0.045040618 | 0.009171628 | 0.001058008 | 0.00877364 | -4.536172412 | 1964.345702 | 1.78271489 |
| 11A | 11.05187375 | 0.022103748 | 0.011333932 | 0.001023488 | 0.010554429 | -7.385550861 | 1950.227678 | 2.488616086 |
| 13A | 13.0273276 | 0.026054655 | 0.013355785 | 0.001027231 | 0.012625047 | -5.787997163 | 1950.814286 | 2.459285712 |
| 15A | 14.991159 | 0.029982318 | 0.015373093 | 0.001026831 | 0.014636362 | -5.033567802 | 1950.311365 | 2.484431728 |
| 18A | 18.06354535 | 0.036127091 | 0.018527915 | 0.001017382 | 0.017620494 | -5.149808016 | 1949.873502 | 2.506324902 |
| 21A | 21.0216699 | 0.04204334 | 0.021537457 | 0.001030546 | 0.020906773 | -3.016650741 | 1952.10325 | 2.394837515 |
| 24A | 24.0291582 | 0.048058316 | 0.024636812 | 0.001136513 | 0.026552411 | 7.214405675 | 1950.671037 | 2.466448135 |
| 27A | 27.110506 | 0.027110506 | 0.028138803 | 0.001013825 | 0.02672827 | -5.277306175 | 1926.912548 | 3.654372615 |
| 30A | 30.0371309 | 0.030037131 | 0.031105887 | 0.000899883 | 0.026272884 | -18.39540174 | 1931.282712 | 3.435864407 |
| 35A | 35.0438843 | 0.035043884 | 0.035611381 | 0.001017882 | 0.034913508 | -1.998861163 | 1968.128369 | 1.593581571 |
| 40A | 40.0630075 | 0.040063008 | 0.040720255 | 0.001061175 | 0.041756843 | 2.482438056 | 1967.718871 | 1.614056429 |
| 45A | 45.0910351 | 0.045091035 | 0.046055874 | 0.001046246 | 0.046419283 | 0.782883323 | 1958.101388 | 2.094930619 |
| 50A | 49.8800357 | 0.049880036 | 0.051066346 | 0.000972788 | 0.047765659 | -6.910167744 | 1953.538473 | 2.323076341 |
| 60A | 59.9765894 | 0.029988295 | 0.060888149 | 0.001013196 | 0.060011003 | -1.461643309 | 1970.057885 | 1.497105773 |
| 70A | 70.2658248 | 0.035132912 | 0.07131316 | 0.001012815 | 0.07040925 | -1.283794574 | 1970.62716 | 1.468641977 |
| 80A | 80.095568 | 0.040047784 | 0.081268871 | 0.001011432 | 0.08025421 | -1.26430773 | 1971.125411 | 1.443729427 |
| 90A | 90.1935112 | 0.045096756 | 0.091482256 | 0.001025604 | 0.091745832 | 0.287289374 | 1971.825257 | 1.408737126 |
| 100A | 100.0664228 | 0.050033211 | 0.101607957 | 0.000995642 | 0.098873341 | -2.76577665 | 1969.657215 | 1.517139253 |
| 120A | 120.5285595 | 0.007533035 | 0.121980927 | 0.00101205 | 0.12123899 | -0.624487151 | 1976.186974 | 1.190651289 |

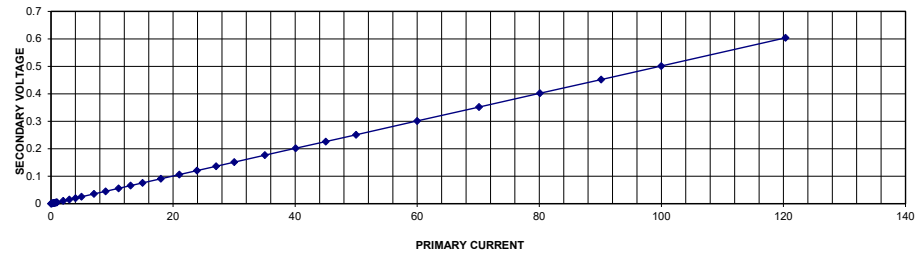
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 10 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |



| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.000761423 | 0.000761423 | 2.33332E-05 | 0.004987734 | -0.00075625 | 103.0797786 | 326.3262969 | 83.68368515 |
| 0.1A | 0.099376407 | 0.099376407 | 0.000515198 | 0.004995627 | -0.000264976 | 294.432277 | 1928.895707 | 3.555214625 |
| 0.2A | 0.202050829 | 0.202050829 | 0.001028122 | 0.005002541 | 0.000249344 | -312.3299372 | 1965.24266 | 1.73786702 |
| 0.3A | 0.301978116 | 0.301978116 | 0.001528012 | 0.005044814 | 0.000762 | -100.5264521 | 1976.281179 | 1.185941026 |
| 0.4A | 0.401179814 | 0.401179814 | 0.002028466 | 0.00503827 | 0.001259829 | -61.01122387 | 1977.749758 | 1.112512115 |
| 0.5A | 0.502357394 | 0.502357394 | 0.002538226 | 0.00502206 | 0.001761446 | -44.09899688 | 1979.167355 | 1.041632247 |
| 0.6A | 0.60246443 | 0.60246443 | 0.00304097 | 0.005090635 | 0.002305503 | -31.90046046 | 1981.159048 | 0.942047584 |
| 0.7A | 0.700563919 | 0.700563919 | 0.003540358 | 0.004979071 | 0.002726734 | -29.8387764 | 1978.793878 | 1.06030612 |
| 0.8A | 0.800469978 | 0.800469978 | 0.004037798 | 0.004997194 | 0.003238681 | -24.67414417 | 1982.442072 | 0.877896412 |
| 0.9A | 0.899620091 | 0.899620091 | 0.00453327 | 0.005072363 | 0.003801776 | -19.24083943 | 1984.483829 | 0.775808531 |
| 1A | 1.00093076 | 1.00093076 | 0.005047154 | 0.005030979 | 0.004274239 | -18.08312127 | 1983.158581 | 0.842070927 |
| 2A | 2.0056481 | 2.0056481 | 0.010101867 | 0.00509869 | 0.009286611 | -8.778827853 | 1985.423288 | 0.728835607 |
| 3A | 2.99504977 | 2.99504977 | 0.015058639 | 0.005039109 | 0.014330959 | -5.077678033 | 1988.924584 | 0.553770821 |
| 4A | 4.01361925 | 0.040136193 | 0.020191322 | 0.005018146 | 0.019379505 | -4.189050225 | 1987.794197 | 0.610290156 |
| 5A | 5.00125653 | 0.050012565 | 0.02514743 | 0.005034088 | 0.024415341 | -2.998480202 | 1988.774404 | 0.561279818 |
| 7A | 7.04206542 | 0.035210327 | 0.035421041 | 0.005008734 | 0.034510407 | -2.638723615 | 1988.102326 | 0.5948837 |
| 9A | 8.9523427 | 0.044761714 | 0.044989111 | 0.005087301 | 0.044781836 | -0.46285473 | 1989.890989 | 0.505450528 |
| 11A | 11.0855963 | 0.022171193 | 0.055841614 | 0.005026994 | 0.054965803 | -1.593374001 | 1985.185518 | 0.740724116 |
| 13A | 13.03620495 | 0.02607241 | 0.065647312 | 0.005044227 | 0.064996159 | -1.001832785 | 1985.794177 | 0.710291156 |
| 15A | 15.0100911 | 0.030020182 | 0.075604042 | 0.005029075 | 0.074725453 | -1.175755878 | 1985.355627 | 0.732218652 |
| 18A | 17.9918501 | 0.0359837 | 0.090599533 | 0.005035807 | 0.089842059 | -0.843117466 | 1985.865664 | 0.706716781 |
| 21A | 21.03723645 | 0.042074473 | 0.10593551 | 0.005005584 | 0.104542235 | -1.332739139 | 1985.853134 | 0.707343317 |
| 24A | 23.9292016 | 0.047858403 | 0.120411485 | 0.005022685 | 0.119427428 | -0.823979448 | 1987.285648 | 0.635717598 |
| 27A | 27.0444254 | 0.027044425 | 0.136058274 | 0.005044322 | 0.135659361 | -0.294054727 | 1987.708987 | 0.614550645 |
| 30A | 30.0322106 | 0.030032211 | 0.151129624 | 0.005071443 | 0.151545209 | 0.274231857 | 1987.182248 | 0.640887587 |
| 35A | 35.0450525 | 0.035045053 | 0.176551964 | 0.005002824 | 0.174562822 | -1.139499395 | 1984.97098 | 0.751451001 |
| 40A | 40.0865946 | 0.040086595 | 0.201773914 | 0.004933414 | 0.197002337 | -2.42209158 | 1986.70848 | 0.664575997 |
| 45A | 45.0217861 | 0.045021786 | 0.226121256 | 0.004964221 | 0.222736665 | -1.519548252 | 1991.046171 | 0.447691437 |
| 50A | 49.9792648 | 0.049979265 | 0.250731275 | 0.005049328 | 0.251600298 | 0.345398071 | 1993.339874 | 0.333006323 |
| 60A | 59.977604 | 0.029988802 | 0.301216173 | 0.004975739 | 0.297671507 | -1.190797889 | 1991.181396 | 0.440930175 |
| 70A | 70.139244 | 0.035069622 | 0.351777846 | 0.005039723 | 0.352720924 | 0.267372195 | 1993.850517 | 0.307474167 |
| 80A | 80.1133908 | 0.040056695 | 0.402044781 | 0.004961628 | 0.396731398 | -1.339289767 | 1992.648446 | 0.36757771 |
| 90A | 90.1537398 | 0.04507687 | 0.451861255 | 0.005019813 | 0.451793521 | -0.014992334 | 1995.164197 | 0.241790149 |
| 100A | 99.9808666 | 0.049990433 | 0.501191597 | 0.005034573 | 0.502599531 | 0.28013046 | 1994.863186 | 0.256840699 |
| 120A | 120.3473562 | 0.00752171 | 0.603728172 | 0.005016547 | 0.602966749 | -0.12627947 | 1993.40302 | 0.329848977 |

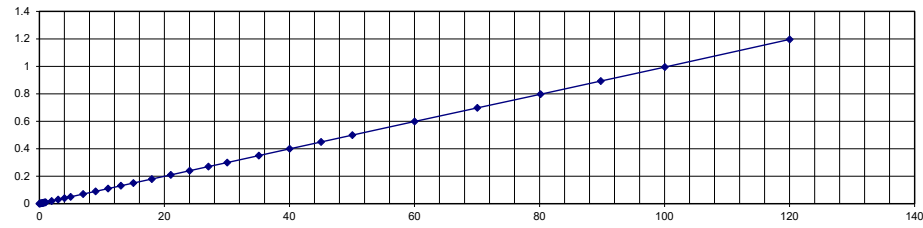
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 20 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |



| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.000793208 | 0.000793208 | 2.47913E-05 | 0.009892767 | -0.000785361 | 103.1566786 | 639.907789 | 68.00461055 |
| 0.1A | 0.10080872 | 0.10080872 | 0.001014221 | 0.010042557 | 0.000219169 | -362.757562 | 1987.903529 | 0.604823532 |
| 0.2A | 0.200722747 | 0.200722747 | 0.002017614 | 0.010018662 | 0.001217765 | -65.68167651 | 1989.704422 | 0.514778914 |
| 0.3A | 0.301377602 | 0.301377602 | 0.003026041 | 0.010004837 | 0.002222026 | -36.18388373 | 1991.893916 | 0.4053042 |
| 0.4A | 0.400877304 | 0.400877304 | 0.004021519 | 0.009956466 | 0.003198113 | -25.74661625 | 1993.661131 | 0.316943425 |
| 0.5A | 0.499766876 | 0.499766876 | 0.00500611 | 0.009926738 | 0.004167847 | -20.1126199 | 1996.627765 | 0.168611768 |
| 0.6A | 0.601388001 | 0.601388001 | 0.006014876 | 0.009939169 | 0.005184089 | -16.02571292 | 1999.668854 | 0.016557283 |
| 0.7A | 0.700545722 | 0.700545722 | 0.007000421 | 0.009994266 | 0.006208232 | -12.76030575 | 2001.438762 | -0.071938099 |
| 0.8A | 0.801613084 | 0.801613084 | 0.008010515 | 0.010018469 | 0.007237727 | -10.67721652 | 2001.402073 | -0.070101857 |
| 0.9A | 0.898997746 | 0.898997746 | 0.008986161 | 0.009876806 | 0.008086018 | -11.13209009 | 2000.849515 | -0.04247576 |
| 1A | 0.999697428 | 0.999697428 | 0.009980752 | 0.009900552 | 0.009104348 | -9.626213336 | 2003.250773 | -0.162538659 |
| 2A | 1.97055081 | 1.97055081 | 0.019592736 | 0.010034295 | 0.018979881 | -3.228972032 | 2011.511654 | -0.575582715 |
| 3A | 2.93353443 | 2.93353443 | 0.029857656 | 0.00997863 | 0.02913574 | -2.477767836 | 2005.203945 | -0.260197255 |
| 4A | 4.01216134 | 0.040121613 | 0.040041748 | 0.009960759 | 0.039170962 | -2.223039121 | 2003.989107 | -0.199455328 |
| 5A | 4.99616944 | 0.049961694 | 0.049843215 | 0.009973569 | 0.049036432 | -1.645272632 | 2004.754079 | -0.237703968 |
| 7A | 7.00693194 | 0.03503466 | 0.069897694 | 0.00994075 | 0.069234592 | -0.95776015 | 2004.910774 | -0.245538717 |
| 9A | 8.98783722 | 0.044939186 | 0.089695009 | 0.009891706 | 0.088111834 | -1.79677818 | 2004.088602 | -0.204430105 |
| 11A | 10.9999822 | 0.021999964 | 0.109598555 | 0.010085921 | 0.110151746 | 0.50220848 | 2007.322487 | -0.366124353 |
| 13A | 13.0310505 | 0.026062101 | 0.13008375 | 0.009990556 | 0.129394227 | -0.532885718 | 2003.486292 | -0.174314624 |
| 15A | 15.0487591 | 0.030097518 | 0.15024178 | 0.009936481 | 0.148738508 | -1.01068099 | 2003.272206 | -0.163610282 |
| 18A | 17.9878083 | 0.035975617 | 0.179445588 | 0.009912167 | 0.177504951 | -1.093286279 | 2004.820347 | -0.24101735 |
| 21A | 21.0242735 | 0.042048547 | 0.209543538 | 0.010086008 | 0.21125779 | 0.811450462 | 2006.673525 | -0.333676241 |
| 24A | 24.03906725 | 0.048078135 | 0.239950773 | 0.010023911 | 0.240172265 | 0.092222051 | 2003.666581 | -0.183329061 |
| 27A | 27.0410833 | 0.027041083 | 0.270042715 | 0.009740292 | 0.262594832 | -2.836264258 | 2002.726369 | -0.136318434 |
| 30A | 30.0597472 | 0.030059747 | 0.299445382 | 0.010028101 | 0.300648982 | 0.400334087 | 2007.694826 | -0.384741281 |
| 35A | 35.0956673 | 0.035095667 | 0.349946099 | 0.00997318 | 0.349222202 | -0.207288381 | 2005.775598 | -0.288779902 |
| 40A | 40.0266671 | 0.040026667 | 0.399123848 | 0.009951267 | 0.397522861 | -0.402740973 | 2005.726659 | -0.286332928 |
| 45A | 45.0580253 | 0.045058025 | 0.449192239 | 0.009972898 | 0.448565896 | -0.139632425 | 2006.180044 | -0.309002222 |
| 50A | 50.0797023 | 0.050079702 | 0.499272913 | 0.009963623 | 0.498182064 | -0.218965848 | 2006.105318 | -0.30526591 |
| 60A | 60.024112 | 0.030012056 | 0.598355262 | 0.009870619 | 0.591681915 | -1.127860566 | 2006.303473 | -0.31517363 |
| 70A | 70.06694 | 0.03503347 | 0.697484188 | 0.009826665 | 0.687731139 | -1.418148577 | 2009.133431 | -0.456671571 |
| 80A | 80.1710966 | 0.040085548 | 0.79677435 | 0.00981656 | 0.799447086 | 0.334323026 | 2012.391503 | -0.619575166 |
| 90A | 89.8142156 | 0.044907108 | 0.893028645 | 0.009917616 | 0.889949707 | -0.345967592 | 2011.452065 | -0.572603245 |
| 100A | 100.059149 | 0.050029575 | 0.994633962 | 0.0100984 | 1.009644074 | 1.486673587 | 2011.979338 | -0.598966879 |
| 120A | 120.0233486 | 0.007501459 | 1.19624043 | 0.009966731 | 1.195447222 | -0.066352424 | 2006.67601 | -0.333800489 |

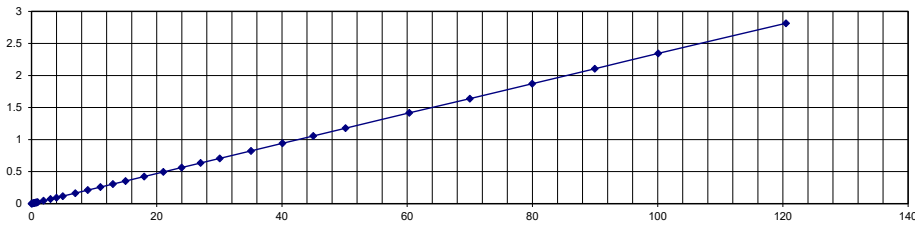
CURRENT TRANSFORMER CHARACTERISTICS TEST

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 47 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 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 | 0.000775343 | 0.000775343 | 2.75089E-05 | 0.023612444 | -0.000757035 | 103.6337706 | 1324.701783 | 33.76491087 |
| 0.1A | 0.101868328 | 0.101868328 | 0.002414561 | 0.023584694 | 0.00162719 | -48.3883973 | 1982.890779 | 0.855461059 |
| 0.2A | 0.200781629 | 0.200781629 | 0.004747401 | 0.02349762 | 0.003942547 | -20.41457056 | 1987.768884 | 0.611555812 |
| 0.3A | 0.301653321 | 0.301653321 | 0.007117646 | 0.023462571 | 0.006302219 | -12.93872157 | 1991.909419 | 0.404529061 |
| 0.4A | 0.401337732 | 0.401337732 | 0.009456499 | 0.023446364 | 0.008634567 | -9.519078194 | 1994.699538 | 0.265023124 |
| 0.5A | 0.500016865 | 0.500016865 | 0.011770166 | 0.023599909 | 0.011025009 | -6.758783036 | 1996.6408 | 0.167960021 |
| 0.6A | 0.600501606 | 0.600501606 | 0.014141596 | 0.023530796 | 0.013354938 | -5.89039475 | 1995.784287 | 0.210785675 |
| 0.7A | 0.700557192 | 0.700557192 | 0.016495984 | 0.023409904 | 0.015624634 | -5.576771666 | 1996.012388 | 0.199380579 |
| 0.8A | 0.79959825 | 0.79959825 | 0.018814526 | 0.023475132 | 0.017995332 | -4.552257837 | 1997.452327 | 0.127383627 |
| 0.9A | 0.899008279 | 0.899008279 | 0.021148189 | 0.023581504 | 0.020424624 | -3.54261301 | 1997.967245 | 0.10163775 |
| 1A | 0.999640187 | 0.999640187 | 0.023521241 | 0.023658404 | 0.022874548 | -2.827126902 | 1997.474929 | 0.126253567 |
| 2A | 1.92211297 | 1.92211297 | 0.045345475 | 0.02341592 | 0.0442327 | -2.515729364 | 1992.245316 | 0.387734181 |
| 3A | 3.0295785 | 3.0295785 | 0.071277799 | 0.023477349 | 0.070351127 | -1.317208925 | 1997.679394 | 0.116030309 |
| 4A | 4.00852088 | 0.040085209 | 0.09426077 | 0.0234775 | 0.093334707 | -0.992195648 | 1998.715703 | 0.064214858 |
| 5A | 5.00381938 | 0.050038194 | 0.117627891 | 0.023373255 | 0.116180203 | -1.246071398 | 1999.35159 | 0.032420517 |
| 7A | 7.00324206 | 0.03501621 | 0.164360907 | 0.023675502 | 0.165029929 | 0.405394217 | 2002.619618 | -0.130980909 |
| 9A | 9.00128636 | 0.045006432 | 0.211665609 | 0.023290703 | 0.208870946 | -1.33798547 | 1998.720817 | 0.063959157 |
| 11A | 11.02284155 | 0.022045683 | 0.258749051 | 0.023651104 | 0.259927033 | 0.453197277 | 2002.223973 | -0.11119864 |
| 13A | 13.0171173 | 0.026034235 | 0.305915875 | 0.023359415 | 0.303296902 | -0.86350141 | 1999.910966 | 0.004451698 |
| 15A | 15.0253345 | 0.030050669 | 0.352826654 | 0.023604362 | 0.353888087 | 0.299934651 | 2001.523166 | -0.076158291 |
| 18A | 17.9906354 | 0.035981271 | 0.422820689 | 0.023436601 | 0.420863993 | -0.464923659 | 1999.807213 | 0.009639334 |
| 21A | 21.05750825 | 0.042115017 | 0.494697763 | 0.023521644 | 0.494531867 | -0.033546024 | 2000.621312 | -0.031065609 |
| 24A | 23.9761009 | 0.047952202 | 0.56334786 | 0.023434832 | 0.561100561 | -0.400516206 | 2000.321333 | -0.016066654 |
| 27A | 27.0227221 | 0.027022722 | 0.634744917 | 0.023521624 | 0.63484297 | 0.015445276 | 2000.910767 | -0.045538348 |
| 30A | 30.0534501 | 0.03005345 | 0.706032562 | 0.023428666 | 0.703336898 | -0.383267804 | 2000.633159 | -0.031657938 |
| 35A | 35.0608753 | 0.035060875 | 0.823349854 | 0.023588174 | 0.826246678 | 0.350600367 | 2001.410617 | -0.070530838 |
| 40A | 40.0811031 | 0.040081103 | 0.94176786 | 0.023263422 | 0.931648258 | -1.086204144 | 2000.293199 | -0.014659966 |
| 45A | 44.9999036 | 0.044999036 | 1.05619599 | 0.02348124 | 1.055878196 | -0.030097636 | 2002.464968 | -0.123248394 |
| 50A | 50.1677891 | 0.050167789 | 1.17754435 | 0.023544179 | 1.180384071 | 0.240575995 | 2002.375611 | -0.118780567 |
| 60A | 60.3217256 | 0.030160863 | 1.41661045 | 0.022923831 | 1.382029726 | -2.502169347 | 2001.341373 | -0.067068657 |
| 70A | 70.0104066 | 0.035005203 | 1.63871214 | 0.023372587 | 1.635548955 | -0.19340202 | 2007.972621 | -0.398631031 |
| 80A | 79.9720986 | 0.039986049 | 1.87154265 | 0.023320213 | 1.864191067 | -0.394357812 | 2008.337151 | -0.416857564 |
| 90A | 89.9705178 | 0.044985259 | 2.10470792 | 0.023739491 | 2.135078914 | 1.422476426 | 2009.121692 | -0.456084581 |
| 100A | 100.0820882 | 0.050041044 | 2.34475145 | 0.023032568 | 2.304372151 | -1.752290715 | 2006.122289 | -0.306114437 |
| 120A | 120.5118519 | 0.040170617 | 2.81530137 | 0.023361199 | 2.814526027 | -0.027547915 | 2011.883026 | -0.594151299 |

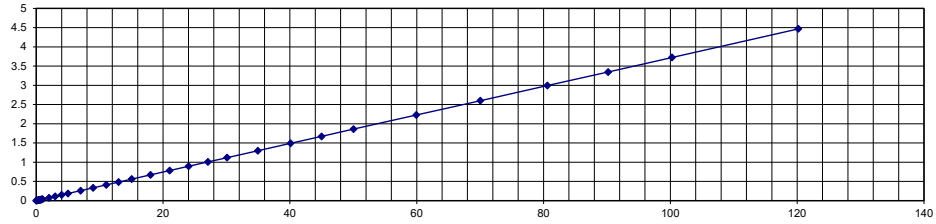
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 75 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |



| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.00076612 | 0.00076612 | 3.10162E-05 | 0.037413842 | -0.000737456 | 104.205835 | 1852.547784 | 7.372610798 |
| 0.1A | 0.100361405 | 0.100361405 | 0.003757258 | 0.037238819 | 0.00297122 | -26.45506042 | 2003.350436 | -0.167521813 |
| 0.2A | 0.199416562 | 0.199416562 | 0.007445956 | 0.037317522 | 0.006675612 | -11.53966793 | 2008.639728 | -0.431986395 |
| 0.3A | 0.299004193 | 0.299004193 | 0.011162319 | 0.037314134 | 0.010390963 | -7.423340962 | 2009.019279 | -0.450963967 |
| 0.4A | 0.400063285 | 0.400063285 | 0.014933252 | 0.037250156 | 0.0141363 | -5.637627394 | 2009.257393 | -0.462869634 |
| 0.5A | 0.500386707 | 0.500386707 | 0.018670315 | 0.03720071 | 0.017848621 | -4.603681963 | 2010.089462 | -0.504473082 |
| 0.6A | 0.60074121 | 0.60074121 | 0.022403574 | 0.037134306 | 0.021541988 | -3.999565047 | 2011.089461 | -0.554473037 |
| 0.7A | 0.698741828 | 0.698741828 | 0.026042759 | 0.037363923 | 0.025341616 | -2.766763585 | 2012.292096 | -0.614604824 |
| 0.8A | 0.801521539 | 0.801521539 | 0.029883012 | 0.037234583 | 0.029078201 | -2.767747568 | 2011.648492 | -0.582424604 |
| 0.9A | 0.901257072 | 0.901257072 | 0.033596623 | 0.037317498 | 0.032866539 | -2.221357736 | 2011.936765 | -0.596838265 |
| 1A | 1.00005776 | 1.00005776 | 0.037283617 | 0.037272052 | 0.036508085 | -2.124274403 | 2011.723584 | -0.586179176 |
| 2A | 2.00546914 | 2.00546914 | 0.074757363 | 0.037254309 | 0.073946247 | -1.096898977 | 2011.978217 | -0.598910841 |
| 3A | 2.99561356 | 2.99561356 | 0.111644509 | 0.037239378 | 0.110788665 | -0.772501564 | 2012.378567 | -0.618928334 |
| 4A | 4.00710165 | 0.040071017 | 0.149311696 | 0.037222776 | 0.148389328 | -0.621586393 | 2012.786887 | -0.639344338 |
| 5A | 5.01228871 | 0.050122887 | 0.186727549 | 0.037213902 | 0.185760702 | -0.520479827 | 2013.209381 | -0.660469026 |
| 7A | 7.00858562 | 0.035042928 | 0.261017547 | 0.036920188 | 0.25799218 | -1.172658461 | 2013.825996 | -0.691299788 |
| 9A | 8.98063096 | 0.044903155 | 0.333825832 | 0.037454554 | 0.335599405 | 0.528479057 | 2017.66088 | -0.883044006 |
| 11A | 11.0325853 | 0.022065171 | 0.410680866 | 0.03731061 | 0.410866365 | 0.04514834 | 2014.809956 | -0.740497793 |
| 13A | 12.9849316 | 0.025969863 | 0.483524097 | 0.0369002 | 0.478380448 | -1.075221515 | 2014.108244 | -0.705412206 |
| 15A | 15.0508475 | 0.030101695 | 0.559756806 | 0.037493047 | 0.563538007 | 0.670622725 | 2016.61427 | -0.830713481 |
| 18A | 18.02623705 | 0.036052474 | 0.671313225 | 0.0371341 | 0.668621974 | -0.402507145 | 2013.915008 | -0.695750389 |
| 21A | 21.0333855 | 0.042066771 | 0.782980977 | 0.037293428 | 0.783640938 | 0.084217225 | 2014.741046 | -0.737052294 |
| 24A | 24.02825665 | 0.048056513 | 0.89466999 | 0.03701201 | 0.88856796 | -0.686726366 | 2014.283779 | -0.714188969 |
| 27A | 27.0754705 | 0.027075471 | 1.0074535 | 0.03660169 | 0.99024186 | -1.73812487 | 2015.636739 | -0.781836953 |
| 30A | 30.1062953 | 0.030106295 | 1.11838681 | 0.037138702 | 1.117342612 | -0.093453729 | 2018.954558 | -0.947727893 |
| 35A | 34.9428612 | 0.034942861 | 1.29801059 | 0.037441539 | 1.307548378 | 0.729440544 | 2019.024044 | -0.951202178 |
| 40A | 40.1183779 | 0.040118378 | 1.4917899 | 0.036953953 | 1.481766511 | -0.676448579 | 2016.958516 | -0.847925787 |
| 45A | 44.9921824 | 0.044992182 | 1.67189624 | 0.037554796 | 1.688906097 | 1.007152331 | 2018.315251 | -0.915762571 |
| 50A | 50.0349389 | 0.050034939 | 1.86127593 | 0.036973898 | 1.849220597 | -0.651914254 | 2016.154809 | -0.80774046 |
| 60A | 59.9400842 | 0.029970042 | 2.22750776 | 0.036785345 | 2.204150569 | -1.059691262 | 2018.177622 | -0.908881121 |
| 70A | 70.0385402 | 0.03501927 | 2.59898295 | 0.037374702 | 2.616903446 | 0.684797751 | 2021.133119 | -1.056655932 |
| 80A | 80.614883 | 0.040307442 | 2.99427061 | 0.036768427 | 2.96331636 | -1.044581351 | 2019.228391 | -0.961419532 |
| 90A | 90.179468 | 0.045089734 | 3.34594536 | 0.03738938 | 3.370988275 | 0.742895359 | 2021.389883 | -1.069494153 |
| 100A | 100.2798548 | 0.050139927 | 3.72359256 | 0.037366337 | 3.746324729 | 0.606785855 | 2019.820641 | -0.991032032 |
| 120A | 120.1967573 | 0.007512297 | 4.46781425 | 0.037170838 | 4.46704813 | -0.017150474 | 2017.71074 | -0.885536994 |

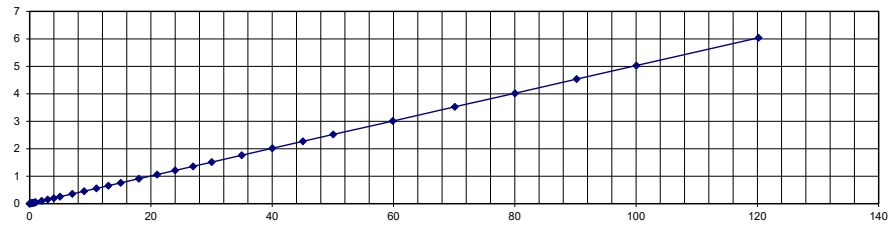
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 100 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |



| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.00074883 | 0.00074883 | 3.37402E-05 | 0.050803633 | -0.000710787 | 104.7468866 | 2219.397391 | -10.96986955 |
| 0.1A | 0.099955961 | 0.099955961 | 0.005073823 | 0.050401049 | 0.004289055 | -18.29697542 | 1970.032525 | 1.498373753 |
| 0.2A | 0.200113639 | 0.200113639 | 0.010121875 | 0.050407195 | 0.009338337 | -8.390547043 | 1977.04122 | 1.147939005 |
| 0.3A | 0.301295872 | 0.301295872 | 0.015222187 | 0.050474386 | 0.014458894 | -5.279054748 | 1979.320475 | 1.033976234 |
| 0.4A | 0.401303592 | 0.401303592 | 0.020270016 | 0.050471223 | 0.019605453 | -3.919736069 | 1979.789251 | 1.010537451 |
| 0.5A | 0.499607403 | 0.499607403 | 0.025231529 | 0.050487574 | 0.024475136 | -3.090455911 | 1980.091643 | 0.995417864 |
| 0.6A | 0.598465282 | 0.598465282 | 0.030222624 | 0.050476374 | 0.029459528 | -2.590319556 | 1980.189695 | 0.990515258 |
| 0.7A | 0.701583732 | 0.701583732 | 0.035427669 | 0.050511355 | 0.034689115 | -2.129065771 | 1980.327089 | 0.983645571 |
| 0.8A | 0.802291925 | 0.802291925 | 0.040514577 | 0.050522454 | 0.039784927 | -1.833984999 | 1980.25499 | 0.9872504575 |
| 0.9A | 0.900726059 | 0.900726059 | 0.045487711 | 0.050426488 | 0.044671622 | -1.82686059 | 1980.152545 | 0.992372762 |
| 1A | 0.998536344 | 0.998536344 | 0.05041994 | 0.050453002 | 0.049630326 | -1.590990395 | 1980.439382 | 0.978030918 |
| 2A | 1.99797381 | 1.99797381 | 0.10084456 | 0.050424408 | 0.099997817 | -0.846761353 | 1981.241041 | 0.937947967 |
| 3A | 2.97850744 | 2.97850744 | 0.150287388 | 0.050411423 | 0.149401968 | -0.592642499 | 1981.874514 | 0.906274318 |
| 4A | 4.00095775 | 0.040009578 | 0.201830563 | 0.050506785 | 0.201326681 | -0.250280587 | 1982.33493 | 0.883253494 |
| 5A | 5.00447683 | 0.050044768 | 0.252515085 | 0.050427862 | 0.251616237 | -0.35722964 | 1981.852621 | 0.90736896 |
| 7A | 7.03357844 | 0.035167892 | 0.354838341 | 0.050415692 | 0.353853897 | -0.278206466 | 1982.192347 | 0.890382643 |
| 9A | 8.99249854 | 0.044962493 | 0.453598654 | 0.049891798 | 0.447903092 | -1.271605947 | 1982.479106 | 0.876044707 |
| 11A | 11.0142373 | 0.022028475 | 0.554466836 | 0.050371081 | 0.554050215 | -0.075195586 | 1986.455561 | 0.677221929 |
| 13A | 13.00506825 | 0.026010137 | 0.654747144 | 0.050846658 | 0.660515424 | 0.873299825 | 1986.273383 | 0.686330829 |
| 15A | 15.01638755 | 0.030032775 | 0.757016008 | 0.050415169 | 0.756304887 | -0.094025744 | 1983.628799 | 0.818560035 |
| 18A | 18.0142858 | 0.036028572 | 0.908155555 | 0.050312971 | 0.905603408 | -0.281817261 | 1983.612356 | 0.819382204 |
| 21A | 21.04617265 | 0.042092345 | 1.06069879 | 0.050386321 | 1.059690387 | -0.095160183 | 1984.179943 | 0.791002835 |
| 24A | 24.00052725 | 0.048001055 | 1.20955785 | 0.050058869 | 1.200690419 | -0.738527652 | 1984.239716 | 0.78801419 |
| 27A | 26.9623163 | 0.026962316 | 1.35782166 | 0.050153401 | 1.351503033 | -0.467525932 | 1985.7038 | 0.714809999 |
| 30A | 30.0282992 | 0.030028299 | 1.51159113 | 0.050742813 | 1.522971548 | 0.747250859 | 1986.535817 | 0.673209163 |
| 35A | 34.9851509 | 0.034985151 | 1.76311573 | 0.050260514 | 1.757622851 | -0.312517498 | 1984.279892 | 0.786005409 |
| 40A | 40.0365222 | 0.040036522 | 2.01700025 | 0.050110789 | 2.00551289 | -0.572789154 | 1984.953755 | 0.752312252 |
| 45A | 45.070141 | 0.045070141 | 2.26923886 | 0.050428873 | 2.272087572 | 0.125378639 | 1986.134725 | 0.693263732 |
| 50A | 50.0579033 | 0.050057903 | 2.52076609 | 0.049449657 | 2.474597328 | -1.865708081 | 1985.821037 | 0.708948167 |
| 60A | 59.9003412 | 0.029950171 | 3.00747127 | 0.050882984 | 3.047159274 | 1.302459124 | 1991.717819 | 0.414109027 |
| 70A | 70.1151354 | 0.035057568 | 3.52723048 | 0.049563632 | 3.474411927 | -1.520215613 | 1987.824039 | 0.608798039 |
| 80A | 80.0250472 | 0.040012524 | 4.0184017 | 0.050825357 | 4.066552726 | 1.184074793 | 1991.464596 | 0.426770176 |
| 90A | 90.209458 | 0.045104729 | 4.53602801 | 0.050079416 | 4.516888147 | -0.423740032 | 1988.732384 | 0.56338078 |
| 100A | 100.0728326 | 0.050036416 | 5.02998005 | 0.050169472 | 5.019852381 | -0.201752337 | 1989.527426 | 0.523628717 |
| 120A | 120.190684 | 0.007511918 | 6.03928204 | 0.050247505 | 6.03853321 | -0.012400856 | 1990.148551 | 0.492572458 |

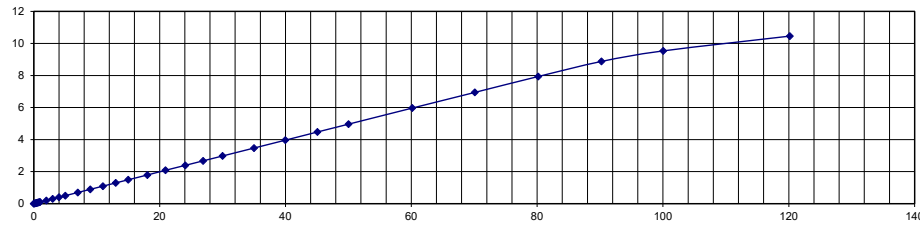
CURRENT TRANSFORMER CHARACTERISTICS TEST

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 200 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 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 | 0.000768767 | 0.000768767 | 0.000285093 | 0.098413316 | -0.00069311 | 141.1324065 | 539.3098944 | 73.03450528 |
| 0.1A | 0.09996952 | 0.09996952 | 0.010047768 | 0.099620794 | 0.009190276 | -9.330430398 | 1989.885121 | 0.505743962 |
| 0.2A | 0.201391656 | 0.201391656 | 0.020151522 | 0.099875332 | 0.019345291 | -4.167579873 | 1998.773681 | 0.061315965 |
| 0.3A | 0.301406059 | 0.301406059 | 0.030140493 | 0.099546392 | 0.029235118 | -3.096875093 | 2000.007465 | -0.000373252 |
| 0.4A | 0.400803236 | 0.400803236 | 0.040035124 | 0.099702582 | 0.03919235 | -2.150352159 | 2002.258012 | -0.112900613 |
| 0.5A | 0.500674385 | 0.500674385 | 0.049992535 | 0.099586585 | 0.049091685 | -1.835036375 | 2002.996583 | -0.149829169 |
| 0.6A | 0.601210837 | 0.601210837 | 0.060004617 | 0.099601509 | 0.05911274 | -1.508773592 | 2003.881925 | -0.194096231 |
| 0.7A | 0.700977817 | 0.700977817 | 0.069941559 | 0.099589636 | 0.069041358 | -1.303857205 | 2004.467241 | -0.223362051 |
| 0.8A | 0.80101524 | 0.80101524 | 0.079904249 | 0.099279651 | 0.078755746 | -1.458310041 | 2004.937777 | -0.246888872 |
| 0.9A | 0.898738449 | 0.898738449 | 0.089606175 | 0.099559771 | 0.088709427 | -1.010883234 | 2005.974354 | -0.298717693 |
| 1A | 0.99949595 | 0.99949595 | 0.099637569 | 0.099423457 | 0.098604575 | -1.047612517 | 2006.263218 | -0.313160892 |
| 2A | 1.99264127 | 1.99264127 | 0.19837951 | 0.099610421 | 0.197719069 | -0.334030104 | 2008.918431 | -0.445921557 |
| 3A | 3.0023341 | 3.0023341 | 0.298955438 | 0.099659957 | 0.298443719 | -0.171462387 | 2008.549582 | -0.427479095 |
| 4A | 4.0056094 | 0.040056094 | 0.398941811 | 0.099471974 | 0.397677106 | -0.318022998 | 2008.117119 | -0.405855931 |
| 5A | 5.01090815 | 0.050109082 | 0.498940862 | 0.099752463 | 0.499081662 | 0.028211761 | 2008.618067 | -0.430903372 |
| 7A | 6.9995388 | 0.034997694 | 0.697311667 | 0.099068899 | 0.692667837 | -0.670426733 | 2007.578284 | -0.378914211 |
| 9A | 8.98916444 | 0.044945822 | 0.894421689 | 0.099116338 | 0.890204295 | -0.47375574 | 2010.05064 | -0.502531977 |
| 11A | 10.98143105 | 0.021962862 | 1.09188786 | 0.099530628 | 1.092219959 | 0.03040585 | 2011.457669 | -0.572883464 |
| 13A | 13.017182 | 0.026034364 | 1.29450743 | 0.098641959 | 1.283271569 | -0.875563756 | 2011.140562 | -0.557028089 |
| 15A | 15.0156272 | 0.030031254 | 1.49163798 | 0.098410084 | 1.476920364 | -0.996507083 | 2013.30717 | -0.665358494 |
| 18A | 18.0423402 | 0.03608468 | 1.78949706 | 0.101458435 | 1.829778838 | 2.201456086 | 2016.470505 | -0.823525242 |
| 21A | 20.92709975 | 0.0418542 | 2.08218025 | 0.097996873 | 2.05002156 | -1.568700089 | 2010.114134 | -0.505706699 |
| 24A | 24.0883739 | 0.048176748 | 2.39197523 | 0.098894435 | 2.381437369 | -0.442500047 | 2014.098942 | -0.704947099 |
| 27A | 26.9151919 | 0.026915192 | 2.6715318 | 0.098503628 | 2.650475272 | -0.794443478 | 2014.963243 | -0.748162159 |
| 30A | 30.0191986 | 0.030019199 | 2.9728772 | 0.099008669 | 2.971392123 | -0.198411942 | 2016.546698 | -0.827334887 |
| 35A | 35.0034559 | 0.035003456 | 3.4707724 | 0.098773789 | 3.456655186 | -0.408406778 | 2017.041273 | -0.85206365 |
| 40A | 39.9888279 | 0.039988828 | 3.96319648 | 0.100153233 | 4.004241614 | 1.025041401 | 2018.008852 | -0.900442614 |
| 45A | 45.0932904 | 0.04509329 | 4.4744249 | 0.098999377 | 4.463438872 | -0.246133712 | 2015.601621 | -0.780081033 |
| 50A | 50.0225676 | 0.050022568 | 4.96242027 | 0.099065568 | 4.954745325 | -0.154900894 | 2016.055267 | -0.802763326 |
| 60A | 60.163235 | 0.030081618 | 5.96701125 | 0.098345248 | 5.915999503 | -0.862267593 | 2016.528291 | -0.826414564 |
| 70A | 70.117295 | 0.035058648 | 6.94594575 | 0.098550181 | 6.909303346 | -0.53033428 | 2018.941625 | -0.947081252 |
| 80A | 80.1907662 | 0.040095383 | 7.93868816 | 0.093501917 | 7.497221609 | -5.888402055 | 2020.252328 | -1.012616422 |
| 90A | 90.230869 | 0.045115435 | 8.87745702 | 0.06702641 | 6.047082457 | -46.8056221 | 2032.808918 | -1.640445903 |
| 100A | 100.0429004 | 0.05002145 | 9.53512226 | 0.045856397 | 4.586838148 | -107.880068 | 2098.408341 | -4.920417035 |
| 120A | 120.1660742 | 0.00751038 | 10.4578985 | 0.087028711 | 10.45712973 | -0.007351609 | 2298.092188 | -14.90460941 |

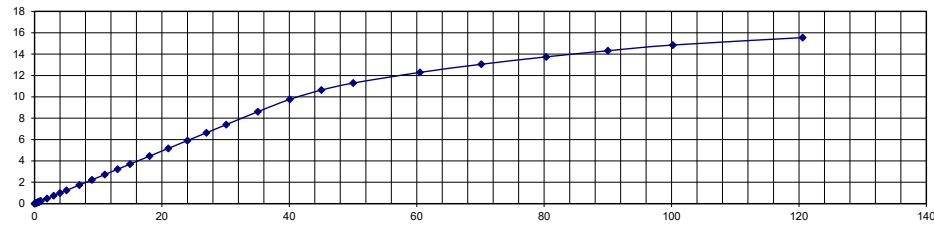
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 500 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |



| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.000758657 | 0.000758657 | 0.000266563 | 0.248227161 | -0.000570338 | 146.7376315 | 1423.038577 | 28.84807116 |
| 0.1A | 0.100511837 | 0.100511837 | 0.025028014 | 0.248499437 | 0.024218477 | -3.342628414 | 2007.986903 | -0.399345156 |
| 0.2A | 0.200597239 | 0.200597239 | 0.049899177 | 0.248212926 | 0.04903217 | -1.768240922 | 2010.025522 | -0.501276102 |
| 0.3A | 0.300830029 | 0.300830029 | 0.074778251 | 0.24795975 | 0.073835081 | -1.277400924 | 2011.480773 | -0.574038632 |
| 0.4A | 0.400514434 | 0.400514434 | 0.099495971 | 0.247934 | 0.098542488 | -0.967585964 | 2012.716841 | -0.635842026 |
| 0.5A | 0.502786336 | 0.502786336 | 0.124852653 | 0.24836921 | 0.124117988 | -0.591908787 | 2013.518832 | -0.675941584 |
| 0.6A | 0.600612097 | 0.600612097 | 0.14914956 | 0.248286829 | 0.148365415 | -0.528522438 | 2013.455812 | -0.67279062 |
| 0.7A | 0.700845517 | 0.700845517 | 0.174036198 | 0.247895204 | 0.172977585 | -0.611994479 | 2013.505021 | -0.675251047 |
| 0.8A | 0.800150851 | 0.800150851 | 0.198653514 | 0.2476967 | 0.197436068 | -0.616628103 | 2013.935809 | -0.696790468 |
| 0.9A | 0.899918244 | 0.899918244 | 0.223365568 | 0.24817979 | 0.222582863 | -0.35164661 | 2014.451583 | -0.72257914 |
| 1A | 1.00003661 | 1.00003661 | 0.248212923 | 0.250455339 | 0.249705851 | 0.59787455 | 2014.473296 | -0.723664779 |
| 2A | 1.95449796 | 1.95449796 | 0.487262864 | 0.245652255 | 0.479368174 | -1.646894987 | 2005.588877 | -0.279443828 |
| 3A | 3.01549806 | 3.01549806 | 0.747899931 | 0.247895626 | 0.746770121 | -0.15129293 | 2015.976961 | -0.798848048 |
| 4A | 4.00596772 | 0.040059677 | 0.993433027 | 0.247063102 | 0.988968156 | -0.45146763 | 2016.224351 | -0.811217544 |
| 5A | 5.01254847 | 0.050125485 | 1.24212199 | 0.24707679 | 1.237725727 | -0.355188788 | 2017.735983 | -0.88679917 |
| 7A | 7.0291559 | 0.03514578 | 1.74037888 | 0.246722817 | 1.73349449 | -0.397139444 | 2019.432659 | -0.97163297 |
| 9A | 9.01377368 | 0.045068868 | 2.23002937 | 0.246385681 | 2.220106105 | -0.446972542 | 2020.998871 | -1.049943571 |
| 11A | 11.0285126 | 0.022057025 | 2.72643219 | 0.246223288 | 2.714717976 | -0.43150758 | 2022.51731 | -1.125865522 |
| 13A | 13.04619555 | 0.026092391 | 3.22323272 | 0.24366701 | 3.178168807 | -1.417920687 | 2023.774993 | -1.188749644 |
| 15A | 14.99327275 | 0.029986546 | 3.6976712 | 0.246525303 | 3.69546245 | -0.059769243 | 2027.393992 | -1.369699596 |
| 18A | 18.0538209 | 0.036107642 | 4.45217376 | 0.244365423 | 4.410970921 | -0.934099089 | 2027.528784 | -1.376439203 |
| 21A | 21.01925505 | 0.04203851 | 5.17682333 | 0.244866449 | 5.146151692 | -0.596011158 | 2030.130614 | -1.506530695 |
| 24A | 24.00802065 | 0.048016041 | 5.90867175 | 0.24398436 | 5.85682289 | -0.885272794 | 2031.592011 | -1.579600568 |
| 27A | 26.9769428 | 0.026976943 | 6.63304232 | 0.246225002 | 6.641639132 | 0.129438111 | 2033.527113 | -1.676355655 |
| 30A | 30.1031337 | 0.030103134 | 7.40278868 | 0.244088891 | 7.347081851 | -0.758217074 | 2033.229301 | -1.661465028 |
| 35A | 35.0656201 | 0.03506562 | 8.61407648 | 0.229672604 | 8.052853606 | -6.969242229 | 2035.367354 | -1.768367687 |
| 40A | 40.0626565 | 0.040062657 | 9.76175884 | 0.175342554 | 7.023929852 | -38.97859241 | 2052.020397 | -2.601019849 |
| 45A | 45.0475426 | 0.045047543 | 10.6358215 | 0.131268839 | 5.912579951 | -79.88461193 | 2117.727465 | -5.886373234 |
| 50A | 50.0362117 | 0.050036212 | 11.2906783 | 0.095476436 | 4.776520495 | -136.3787261 | 2215.819562 | -10.79097812 |
| 60A | 60.5057856 | 0.030252893 | 12.2902759 | 0.078818009 | 4.768186896 | -157.7557501 | 2461.530811 | -23.07654054 |
| 70A | 70.1286676 | 0.035064334 | 13.0487323 | 0.068243097 | 4.785038842 | -172.6985659 | 2687.183168 | -34.3591584 |
| 80A | 80.3301682 | 0.040165084 | 13.7449143 | 0.059086156 | 4.745642192 | -189.6323352 | 2922.177849 | -46.10889244 |
| 90A | 90.0260638 | 0.045013032 | 14.3178075 | 0.052526638 | 4.728007838 | -202.8296059 | 3143.849497 | -57.19247483 |
| 100A | 100.2044536 | 0.050102227 | 14.8524441 | 0.034053081 | 3.411511727 | -335.3625398 | 3373.332124 | -68.66660619 |
| 120A | 120.5705608 | 0.00753566 | 15.5459728 | 0.128936721 | 15.54521414 | -0.004880328 | 3877.871213 | -93.89356065 |

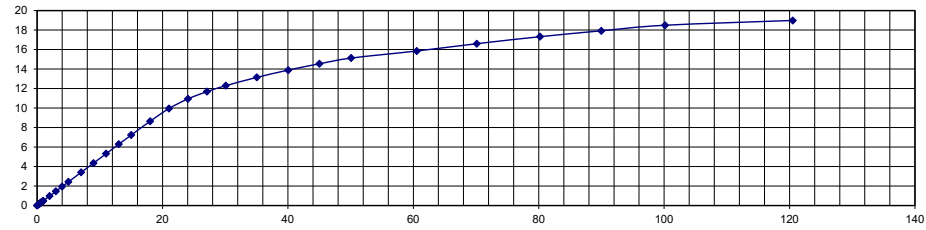
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

| | |
|---------------------|---------------|
| PRODUCT: | CR8350-2000-F |
| Lot #: | 31023 |
| TURNS/RATIO: | 2000 |
| DATE: | June 17, 2020 |
| TESTER: | lb |

TEST SETUP

| | |
|--|------|
| FULL SCALE PRIMARY CURRENT(Amps): | 100 |
| Burden (Ohms): | 1000 |
| MEASUREMENT CT TURNS RATIO: | 2000 |
| FREQUENCY(Hz): | 60 |



| Input Current R | Primary Current | MEASURED CURRENT | Secondary Voltage | Slope | Normalized Output | % Linear Error Affected by Core and DCR | Equivalent Turns Ratio | % Absolute Error Affected by turns ratio |
|-----------------|-----------------|------------------|-------------------|-------------|-------------------|---|------------------------|--|
| 0A | 0.000781673 | 0.000781673 | 0.000201981 | 0.490274803 | -0.000398438 | 150.6932859 | 3870.022189 | -93.50110945 |
| 0.1A | 0.100349763 | 0.100349763 | 0.049017707 | 0.487012533 | 0.04808992 | -1.929276983 | 2047.214538 | -2.360726896 |
| 0.2A | 0.200304503 | 0.200304503 | 0.097696918 | 0.486897293 | 0.096746047 | -0.982852455 | 2050.26429 | -2.51321448 |
| 0.3A | 0.300753964 | 0.300753964 | 0.146605489 | 0.487789898 | 0.145923073 | -0.467654844 | 2051.450911 | -2.572545561 |
| 0.4A | 0.401846894 | 0.401846894 | 0.195917599 | 0.487330045 | 0.195050392 | -0.444606454 | 2051.101565 | -2.55507827 |
| 0.5A | 0.500393024 | 0.500393024 | 0.243942089 | 0.487480688 | 0.243150263 | -0.325652926 | 2051.277933 | -2.56389663 |
| 0.6A | 0.600979025 | 0.600979025 | 0.292975822 | 0.487359472 | 0.292211148 | -0.296008619 | 2051.292222 | -2.564611117 |
| 0.7A | 0.70129426 | 0.70129426 | 0.341865402 | 0.48594261 | 0.34000709 | -0.546550881 | 2051.375354 | -2.568767693 |
| 0.8A | 0.800454807 | 0.800454807 | 0.390051737 | 0.48756719 | 0.389493828 | -0.143239459 | 2052.175984 | -2.608799176 |
| 0.9A | 0.901141336 | 0.901141336 | 0.439143185 | 0.485507888 | 0.436729555 | -0.552660207 | 2052.044451 | -2.602222553 |
| 1A | 1.00187883 | 1.00187883 | 0.488052033 | 0.486658318 | 0.486790994 | -0.259051501 | 2052.811508 | -2.640575416 |
| 2A | 1.9958673 | 1.9958673 | 0.97178479 | 0.486533513 | 0.970274657 | -0.155639734 | 2053.816154 | -2.690807704 |
| 3A | 3.00364501 | 3.00364501 | 1.46210242 | 0.484200335 | 1.453584246 | -0.586011684 | 2054.332835 | -2.716641766 |
| 4A | 4.00351809 | 0.040035181 | 1.9462413 | 0.48455445 | 1.939140833 | -0.366165632 | 2057.051245 | -2.85256227 |
| 5A | 5.00581259 | 0.050058126 | 2.43190756 | 0.483840304 | 2.421232214 | -0.440905497 | 2058.389337 | -2.919466848 |
| 7A | 7.0233348 | 0.035116674 | 3.40806612 | 0.480128408 | 3.371320885 | -1.089935851 | 2060.797694 | -3.039884684 |
| 9A | 8.99591608 | 0.04497958 | 4.35515843 | 0.479282255 | 4.310801275 | -1.028977031 | 2065.577229 | -3.278861431 |
| 11A | 11.00841675 | 0.022016834 | 5.31971429 | 0.48175826 | 5.302614027 | -0.322487415 | 2069.362404 | -3.468120184 |
| 13A | 13.0386181 | 0.026077236 | 6.29778056 | 0.473222836 | 6.169390163 | -2.081087323 | 2070.351289 | -3.517564448 |
| 15A | 15.01731925 | 0.030034639 | 7.23414713 | 0.470268695 | 7.061393454 | -2.446453053 | 2075.893534 | -3.794676692 |
| 18A | 18.02043365 | 0.036040867 | 8.64641782 | 0.433019647 | 7.802420152 | -10.81712663 | 2084.150226 | -4.207511279 |
| 21A | 21.0428248 | 0.04208565 | 9.95517257 | 0.327695637 | 6.894860195 | -44.38541593 | 2113.757913 | -5.687895675 |
| 24A | 24.05650585 | 0.048113012 | 10.9427427 | 0.243814393 | 5.864540689 | -86.59164084 | 2198.3982 | -9.919909978 |
| 27A | 27.1076957 | 0.027107696 | 11.6866667 | 0.204578641 | 5.544873872 | -110.7652396 | 2319.540413 | -15.97702063 |
| 30A | 30.1097481 | 0.030109748 | 12.3008225 | 0.171483213 | 5.162534674 | -138.2709904 | 2447.783317 | -22.38916585 |
| 35A | 35.03802 | 0.03503802 | 13.1459384 | 0.148857481 | 5.214889741 | -152.0846854 | 2665.311439 | -33.26557197 |
| 40A | 40.0459564 | 0.040045956 | 13.8914072 | 0.130573656 | 5.228165273 | -165.7032912 | 2882.786159 | -44.13930793 |
| 45A | 45.0385454 | 0.045038545 | 14.5433078 | 0.115828009 | 5.215943355 | -178.8241131 | 3096.857058 | -54.84285288 |
| 50A | 50.0932261 | 0.050093226 | 15.1287814 | 0.069391806 | 3.475277747 | -335.3258215 | 3311.12102 | -65.556051 |
| 60A | 60.5516742 | 0.030275837 | 15.854512 | 0.078256731 | 4.73779439 | -234.6390893 | 3819.207693 | -90.96038465 |
| 70A | 70.1401734 | 0.035070087 | 16.6048766 | 0.071084878 | 4.985123999 | -233.0885371 | 4224.070741 | -111.203537 |
| 80A | 80.2242028 | 0.040112101 | 17.3216986 | 0.061889125 | 4.964224017 | -248.9306393 | 4631.428167 | -131.5714084 |
| 90A | 89.9729188 | 0.044986459 | 17.9250381 | 0.056098253 | 5.046541859 | -255.1944797 | 5019.399027 | -150.9699514 |
| 100A | 100.1594072 | 0.050079704 | 18.4964823 | 0.024004499 | 2.403494698 | -669.5661787 | 5415.051661 | -170.752583 |
| 120A | 120.5118046 | 0.007531988 | 18.9850314 | 0.157536695 | 18.98424973 | -0.00411748 | 6347.727433 | -217.3863717 |