

**Technical Specification 5.6.8**



Palo Verde Nuclear  
Generating Station

**Thomas N. Weber**  
Department Leader  
Regulatory Affairs

Tel. 623-393-5764  
Fax 623-393-5442

Mail Station 7636  
PO Box 52034  
Phoenix, Arizona 85072-2034

102-05917-TNW/RJR  
October 28, 2008

ATTN: Document Control Desk  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**Subject: Palo Verde Nuclear Generating Station (PVNGS) Unit 2  
Docket No. STN 50-529  
License No. NPF-51  
Steam Generator Tube Inspection Report**

Attached please find PVNGS' Steam Generator Tube Inspection Report prepared and submitted by Arizona Public Service Company (APS) pursuant to Technical Specification (TS) Reporting Requirement 5.6.8. This report describes steam generator tube inspection and plugging results from the Unit 2 fourteenth refueling outage.

By copy of this letter and the enclosure, this report is being provided to the NRC Region IV Administrator and the PVNGS Resident Inspector.

No commitments are being made to the NRC by this letter.

Should you have questions regarding this submittal, please contact Russell A. Stroud, Licensing Section Leader, at (623) 393-5111.

Sincerely,

TNW/RAS/RJR/gat

Attachment

cc: (with attachment)  
E. E. Collins Jr. NRC Region IV Regional Administrator  
B. K. Singal NRC NRR Project Manager  
R. I. Treadway NRC Senior Resident Inspector

A047  
NRR

## **Attachment**

**Unit 2 – 14<sup>th</sup> Refueling Outage  
Steam Generator Tube Inspection Report**



## Palo Verde Nuclear Generating Station

**UNIT 2**

**U2R14**

ARIZONA PUBLIC SERVICE  
P. O. BOX 52034  
PHOENIX, AZ 85072

Prepared by: Douglas B Hansen *[Signature]*

Date: 5-4-2008

Reviewed by: *[Signature]*

Date: *7/8/2008*

Approved by: *[Signature]*

Report Date: *7/24/08*

Commercial Service Date: 9-19-86

## Table of Contents

- 1.0 SUMMARY
- 2.0 ORIGINAL EXAMINATION PLAN
- 3.0 CONDITION MONITORING
- 4.0 EXAMINATION RESULTS
- 5.0 EXAMINATION TECHNIQUES and EQUIPMENT
- 6.0 REPAIR TECHNIQUES and EQUIPMENT

APPENDIX A - TUBE SUPPORT DIAGRAM, LEGEND, and ANALYSIS CODES

APPENDIX B - SG 21 SUMMARY DATA SHEETS

APPENDIX C - SG 22 SUMMARY DATA SHEETS

APPENDIX D - PLI and PLP DATA SHEETS

APPENDIX E - PLUG MAPS & PLUG HISTORY

APPENDIX F - FORM NIS - 1

# UNIT 2

## STEAM GENERATOR EDDY CURRENT

### U2 R14 Refueling Outage

#### 1.0 Summary

This report is intended to satisfy the requirements of PVNGS Technical Specifications 5.6.8 for the submittal of a Steam Generator Tube Inspection Report. The steam generator (SG) eddy current examination for the 14th refueling outage in Unit 2 (U2R14) was conducted during April 2008. Mode 4 entry of Unit 2 Cycle 14 was entered on May 22, 2008. The initial examination plan for both steam generators is listed in Table 1. This table summarizes the examinations performed for each of the various categories, examination types, extents, and the number of tubes or tube locations completed. This was the third examination performed in Unit 2 following steam generator replacement in U2R11. This examination is considered a 100% full length tubing inspection (see Table 1) with the Row 1-4 u-bends inspected via rotating coil in lieu of bobbin due to access limitations of the selected bobbin probe sizes.

The examinations resulted in a total of 83 tubes being plugged in SG 21, and 90 tubes being plugged in SG 22. A description of the previous plugging history for these replacement steam generators is contained in Appendix E.

#### 2.0 Original Examination Plan

The original examination plan was developed based on the "PVNGS Steam Generator Degradation Assessment" developed per PVNGS Procedure 81DP-9RC01 as required by NEI 97-06. In addition, possible damage mechanisms were reviewed along with the specific requirements set forth in Procedure 73TI-9RC01 and the PVNGS Technical Specifications. The plan is summarized in Table 1 of this report.

#### 3.0 Condition Monitoring Assessment

Per the Steam Generator Program, as defined in PVNGS Procedure 81DP-9RC01, a condition monitoring evaluation was conducted by PVNGS Engineering. As indicated above, no defects exceeding the Technical Specification repair limits or the PVNGS Administrative Plugging criteria were identified. The results of the eddy current examinations are provided in Section 4.0. An engineering evaluation of the as-found condition of inservice tubes did not reveal any degradation exceeding the threshold values for structural and leakage integrity. As such, all steam generator performance criteria were satisfied for Unit 2 Cycle 14. No tube pulls or insitu pressure testing were required based on the results of the examinations.

Tubesheet and Flow Distribution Plate Foreign Object Search and Retrieval (FOSAR) were conducted using a power cart mounted with a remotely operated camera and retrieval tooling. The

applicable requirements of the Revision 2 of the EPRI Steam Generator Integrity Assessment Guidelines Section 10.5, *Secondary Side Visual Inspections*, were applied for the FOSAR inspections. Two (2) loose parts were identified in RSG 21 cold leg; one sludge rock and a small piece of wire (Note- sludge rocks have never caused SG tube wear, however Engineering identifies them and removes them when accessible). The small piece of wire had been left in the SG after U2R13 and was seen in the same location during the U2R14 pre-lance inspection. It was no longer present after sludge lancing, nor was it seen at any other location within viewing range. The wire was not found in the sludge when it was inspected, so it must be assumed that the wire is still present in the Steam Generator further in the tube bundle which would be a lower flow region. No wear was detected by ECT in the tube in contact with the wire during the last cycle. Since the wire is now assumed to be in a lower flow region, no wear is expected and it is not a concern. The sludge rock was removed during the post annulus inspection. Two (2) loose parts were identified in RSG 22 cold leg - one sludge rock and one piece of gasket material. The gasket material had been left in the SG after U2R13 and was seen in the same location but one row deeper into the bundle on both the pre and post annulus flush inspection. Neither one of the parts was observed during eddy current examinations. The sludge rock was removed during the post annulus inspection. The gasket material was left in its location. Since the gasket material is now in a lower flow location and since it did not cause any wear while in its previous, higher flow, location, it is not a concern. In accordance with the PVNGS loose part program, the results are documented for future tracking of this location during the U2R15 inspection. All loose part locations were ECT tested for possible wear indications and none was found. No loose parts were identified in either RSG 21 or RSG 22 hot leg. Flow Distribution Plate FOSAR was also conducted using a video cart. No loose parts were identified in either steam generator.

As noted in Table 2 there were 16 possible loose part (PLP) locations identified in Steam Generator 21 and 9 possible loose part (PLP) locations identified in Steam Generator 22. All of these PLP calls had been observed in the previous inspections (U2R12 and/or U2R13), with continued no evidence of wear. PVNGS has historically taken the position if a loose part is detected by ECT or FOSAR, without the presence of wear, it is reasonable to conclude that the required conditions to promote wear do not exist. Per the PVNGS SG Program, trending of these locations will continue in U2R14.

Finally, PVNGS Procedure 81DP-9RC01 requires, per the EPRI *PWR Steam Generator Examination Guidelines*, that a visual inspection of the previously installed steam generator plugs be performed to assess plug integrity. Additionally, the Examination Guidelines Section 6.10.1 states – “Verify the location and presence of existing in-service plugs.” The conduct of the plug location and integrity verification was performed in U2R14 per procedure 81CP-9RC40. A review of the inspection results indicated that all plugs were accounted for and no evidence of potential plug leakage was identified.

#### **4.0 Examination Results**

A summary of the bobbin and rotating coil (RC) examination results is located in Table 2 of this report. In addition, Appendix A contains a reference drawing of steam generator support locations. The summary data sheets of Appendix B and C list all tubes in each steam generator with indications expressed as a percent wall thickness reduction, or as an analysis code. Appendix D contains summary data sheets for tubes classified as possible loose parts.

#### **5.0 Examination Techniques and Equipment**

The eddy current examinations were performed by Westinghouse Electric Company using the Core Star OMNI 200 instrumentation. Westinghouse Anser acquisition software was utilized with both systems. The following frequencies were used for the tube examinations:

Bobbin Coil *	RC
500 KHz	300 KHz
300 KHz	200 KHz
100 KHz	100 KHz
35 KHz	35 KHz

\* NOTE: For bobbin coil examinations these frequencies were utilized in both differential and absolute modes.

All tubing was examined with Zetec or Core Star manufactured bobbin coil probes and Zetec RC style probes. Probe diameters were 0.540" to 0.610". Plus Point RC probes were used for the characterization of non-quantifiable or distorted bobbin indications. Data acquisition in both steam generators was facilitated by using Westinghouse Pegasys fixtures configured with a dual guide tube in each of the hot and cold legs.

Fiber optic cable was used from containment to the data acquisition room located at the PVNGS North Annex. Primary and secondary analysis was all performed on site. The Primary and Secondary Resolution Analysts, Independent Review Analysts, and data management were also located at PVNGS in the North Annex. Westinghouse provided the data acquisition and primary data analysis. Anatec International, Inc. provided the secondary data analysis.

Each individual from Westinghouse and Anatec International, Inc. who performed data analysis was required to complete and pass a PVNGS site specific Eddy Current Data Analysis Course as well as an associated performance and written examination. All individuals performing data analysis were also required to have Qualified Data Analyst (QDA) certification.

## **6.0 Repair Techniques and Equipment**

All repairs were performed utilizing the Westinghouse mechanical rolled plug. The plugs were installed in accordance with the PVNGS work control process utilizing the Pegasys fixtures and associated remote plugging equipment.

**TABLE 1**  
**EXAMINATION SUMMARY**

SCOPE DESCRIPTION		SG 21	SG 22
Exam Description	Extents	Scope	Scope
FULL LENGTH BOBBIN	TEC-TEH	12547	12543
ROW 1 THRU 4 SHORT RADIUS U-BENDS *	08C-08H	278	278
HOT STRAIGHT RC	VARIOUS	48	30
HOT U & SQUARE BEND RC	VARIOUS	148	184
COLD STRAIGHT RC	VARIOUS	105	58
COLD U & SQUARE BEND RC	VARIOUS	75	128

**Notes:**  
1. \*RC examinations were performed on Row 1 thru 4 short-radius U-Bends in lieu of bobbin examination.



**TABLE 2**  
**INDICATION SUMMARY**

<b>DAMAGE MECHANISM</b>	<b>STEAM GENERATOR</b>	<b>STEAM GENERATOR</b>
	21	22
<b>WEAR</b>		
0% - 20%	142	218
20% - 29%	32	50
30%-39%	11	11
≥ 40%	4	4
<b>PLUGGED</b>	<b>(83)</b>	<b>(90)</b>
<b>Possible Loose Parts (RC)</b>		
PLI	0	0
PLP	16	9
<b>PLUGGED</b>	<b>(0)</b>	<b>(0)</b>
<b>Volumetric Indications</b>		
SVI/MVI	0	1
<b>PLUGGED</b>	<b>(0)</b>	<b>(0)</b>
<b>PREVENTATIVE</b>	<b>(0)</b>	<b>(0)</b>
<b>PLUGGED</b>	<b>( 83 )</b>	<b>( 90 )</b>
<b>TOTAL PLUGGED / %</b>	<b>( 116 / 0.9 % )</b>	<b>( 127 / 1.0 % )</b>

**NOTES**

1. Numbers in (X) are tubes numbers plugged in each category
2. The above represent the numbers of tubes; not indications

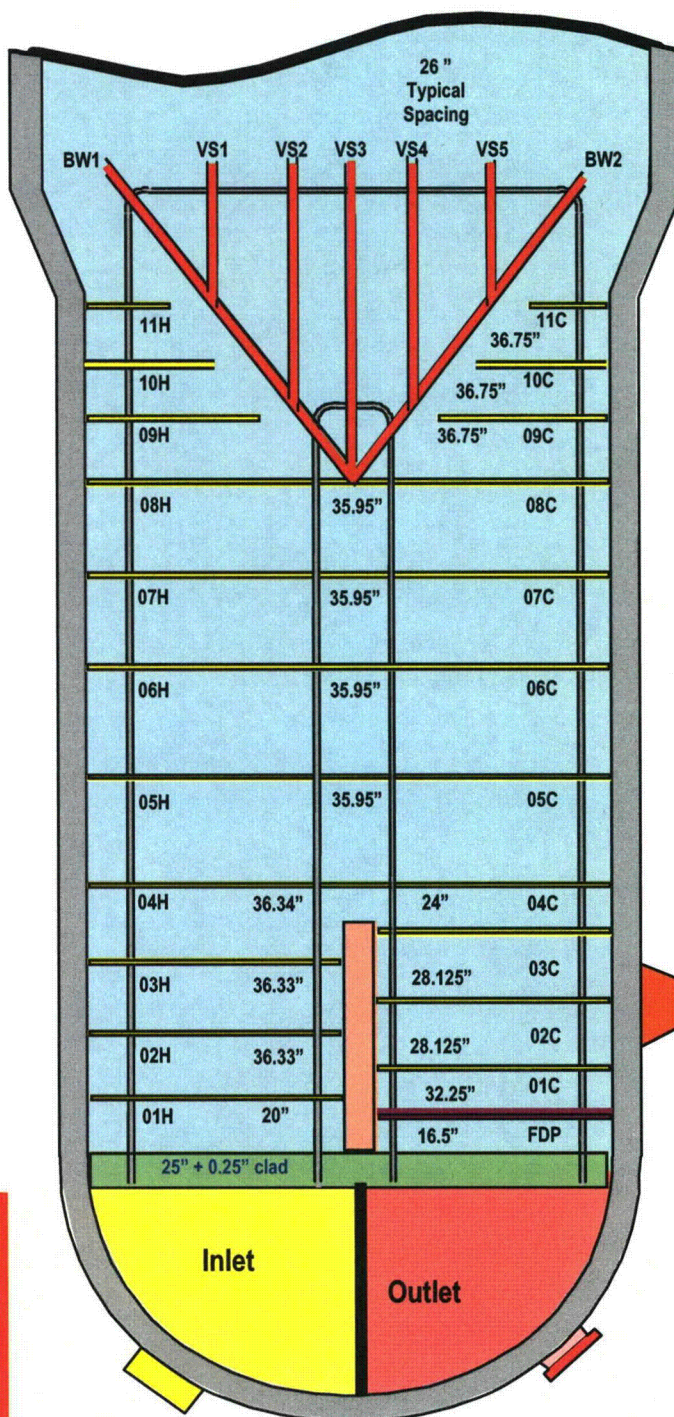
## **APPENDIX A**

### **TUBE SUPPORT DIAGRAM**

### **LEGEND and ANALYSIS CODES**

# PVNGS Steam Generator

## REPLACEMENTS



Center of 08H to 08C	
Row 1	- 17.415
Row 2	- 19.736
Row 3	- 22.056
Row 4	- 24.377
Row 5	- 26.698
Row 6	- 29.019

## LEGEND

ROW: Indicates the row number of a given tube.  
COL: Indicates the column number of a given tube.  
VOLTS: Indicates the peak-to-peak voltage of a given indication response.  
DEG: The measured phase angle of a given indication response.  
IND: Indicates the analysis code or PCT for percent  
PER or PCT: The percent through the tube wall of a given indication  
CHN: Indicates the channel used to make the call  
LOCN: Gives indication location at INCH1 to INCH2 relative to known landmarks such as supports, vertical straps, and batwings. Typical location codes are as follows:

#1 Vertical Strap .....VS1  
#1 Batwing .....BW1  
#1 Support Plate in Hot Leg .....01H  
#7 Support Plate in Cold Leg.....07C  
Top Tube Sheet Cold Leg.....TSC  
Tube End Hot Leg.....TEH  
Tube End Cold Leg.....TEC

CRLEN: Indicates the flaw length, typically used for cracks only  
CRWID: Indicates the flaw width, typically used for cracks only  
CEG: Indicates the flaw length, typically used for cracks only  
BEGT and ENDT: Indicates the beginning and of the test; together they document the examination extent  
PDIA: Documents the probe diameter  
PTYPE: Documents the probe type  
CAL: Indicates calibration number  
L: Indicates the leg the examination was conducted from  
COM: This comment field is utilized to document comments

### **Analysis CODES:**

Absolute Drift ..... ADI  
Apex Anomaly ..... APA  
After Pressure Test..... APT  
Bad Data..... BDA  
Bulge ..... BLG  
Dented Buff Mark..... DBM  
Deposit ..... DEP  
Dent..... DNT  
Distorted Support Signal With Indication..... DSI  
Distorted Top of Tubesheet With Indication ..... DTI  
Geometric Indication..... GEO  
ID Chatter..... IDC  
Indication Not Found ..... INF  
Indication Not Reportable..... INR  
Multiple Axial Indication..... MAI  
Manufacturer Burnishing Mark..... MBM

Mixed Mode Indication.....	MMI
Multiple Circumferential Indication.....	MCI
Multiple Volumetric Indication.....	MVI
No Detectable Defect.....	NDD
No Discontinuity Found.....	NDF
Non-Quantifiable Indication.....	NQI
No Tube Sheet Expansion.....	NTE
Obstructed.....	OBS
Over Expanded.....	EXP
Previous Bobbin Call.....	PBC
Possible Deposit.....	PDP
Positive Identification.....	PID
Positive Identification Verified.....	PIV
Possible Loose Part with Indication.....	PLI
Possible Loose Part.....	PLP
Previous RC Call.....	PRC
Possible Support Anomaly.....	PSA
Possible Support Indication.....	PSI
Permeability Variation Noise.....	PVN
Retest With 3 coil Probe.....	R3C
Retest Bad Data.....	RBD
Retest Identification Check.....	RIC
Retest with Magnetic Bias RC Probe.....	RMB
Single Axial Indication.....	SAI
Single Circumferential Indication.....	SCI
Single Volumetric Indication.....	SVI
Sludge.....	SLG
To Be Plugged.....	TBP
Volumetric Indication.....	VOL

### Util2 CODES:

Batwing Wrapper Bar Wear.....	BWW
Change.....	CH
History Review.....	HR
Inside Diameter.....	ID
NEW.....	NEW
No Change.....	NC
No Loose Part Present.....	NLP
Manufacturing Induced Groove.....	MIG
Outside Diameter.....	OD
Pit like indication.....	PIT
Senior (Lead) Analysis Review.....	SR
Stake.....	SK
Tube to Tube Wear.....	TTW
Volumetric Inside Diameter.....	VID

**APPENDIX B**

**STEAM GENERATOR 21**

**SUMMARY DATA SHEETS**

ROW	COL	VOLTS	DEG	END	PER	CHN	LOCH	INCH1	INCH2	CRLEN	CRNID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L1
50	5	1.31	0	NTE		2	TEC	23.11					VS3	TEC	.610	ZBAZC	17	C1
36	8	36.01	164	NTE		2	TEC	22.55					VS3	TEC	.610	ZBAZC	31	C1
38	13	.03	27	NTE		2	TEH	23.23					VS3	TEH	.610	ZBAZC	50	H1
46	14	.31	132	PCT	8	P2	BM2	-.91					VS3	TEC	.610	ZBAZC	32	C1
46	14	.52	40	PCT	8	P3	BM2	-.89					QBC	VS3	.680	ZPUF1	76	C1
50	19	.13	32	NTE		2	TEC	22.79					VS3	TEC	.610	ZBAZC	31	C1
103	22	.37	108	PCT	11	P2	10C	.78					VS3	TEC	.610	ZBAZC	31	C1
103	22	.74	68	PCT	13	P3	10C	.74					10C	10C	.600	ZPANZ	70	C1
36	24	.24	64	PCT	8	P2	BM2	-.97					VS3	TEC	.610	ZBAZC	0	C1
36	24	.83	80	PCT	13	P3	BM2	-.73					QBC	VS3	.680	ZPUF1	76	C1
26	26	.34	103	MBH		6	03H	12.34					VS3	TEH	.610	ZBAZC	51	H1
46	35	.30	108	PCT	9	P2	VS3	.92					VS3	TEC	.610	ZBAZC	27	C1
46	35	.46	06	PCT	9	P3	VS3	.85					VS3	VS3	.680	ZPUF1	70	H1
37	38	.35	105	PCT	10	P2	BM2	-.72					VS3	TEC	.610	ZBAZC	10	C1
37	38	.45	60	PCT	7	P3	BM2	-.75					QBC	VS3	.680	ZPUF1	76	C1
50	55	.40	86	MBH		6	03C	19.13					VS3	TEC	.610	ZBAZC	26	C1
44	59	.31	68	MBH		6	06C	30.79					TEH	TEC	.610	ZBAZC	2	C1
80	60	.31	43	PCT	10	P2	VS2	.83					VS3	TEH	.610	ZBAZC	37	H1
80	60	.53	60	PCT	10	P3	VS2	.99					QOH	VS2	.680	ZPUF1	70	H1
80	60	1.03	75	PCT	17	P3	VS2	.68					QOH	VS2	.680	ZPUF1	70	H1
81	64	.31	82	MBH		6	04C	15.36					VS3	TEC	.610	ZBAZC	24	C1
81	64	.26	78	MBH		6	07H	28.91					VS3	TEH	.610	ZBAZC	37	H1
37	68	.25	137	PCT	3	P2	VS3	1.29					TEH	TEC	.610	ZBAZC	2	C1
76	68	.31	83	MBH		6	04C	19.75					VS3	TEC	.610	ZBAZC	23	C1
4	67	.92	82	MBH		6	05C	3.63					QBC	TEC	.610	ZBAZC	22	C1
44	67	.25	83	PCT	7	P2	VS3	.81					TEH	TEC	.610	ZBAZC	2	C1
44	67	.63	87	PCT	12	P3	VS3	.73					VS3	VS3	.680	ZPUF1	70	H1
58	69	.53	116	PCT	16	P2	BM1	.81					VS3	TEH	.610	ZBAZC	37	H1
58	69	.63	82	PCT	11	P3	BM1	.64					QOH	VS3	.680	ZPUF1	70	H1
4	71	.51	92	PCT	11	P3	BM1	-.89					QOH	QBC	.640	ZPUF1	67	H1
64	71	.69	79	PCT	16	P2	VS3	.24					VS3	TEC	.610	ZBAZC	24	C1
64	71	1.12	85	PCT	19	P3	VS3	.23					VS3	VS3	.680	ZPUF1	70	H1
38	73	.21	113	PCT	7	P2	BM2	.88					TEH	TEC	.610	ZBAZC	3	C1
38	73	.78	88	PCT	12	P3	BM2	.65					QBC	VS3	.680	ZPUF1	76	C1
26	74	.24	114	PCT	7	P2	BM2	-.91					TEH	TEC	.610	ZBAZC	5	C1
26	74	.63	86	PCT	10	P3	BM2	-.77					QBC	VS3	.680	ZPUF1	76	C1
31	74	.17	90	PCT	6	P2	BM2	-.91					TEH	TEC	.610	ZBAZC	5	C1
31	74	.72	84	PCT	11	P3	BM2	-.77					QBC	VS3	.680	ZPUF1	76	C1
56	75	.33	64	PCT	12	P2	BM1	-1.65					VS3	TEH	.610	ZBAZC	36	H1
56	75	.98	94	PCT	17	P3	BM1	-1.64					QOH	VS3	.680	ZPUF1	70	H1
98	75	.85	10	NTE		2	TEH	23.06					VS3	TEH	.610	ZBAZC	38	H1
22	77	.35	77	PCT	11	P2	BM2	-.91					TEH	TEC	.610	ZBAZC	7	C1
22	77	.89	87	PCT	12	P3	BM2	-.89					QBC	VS3	.680	ZPUF1	76	C1
22	77	.86	91	PCT	13	P3	BM2	.71					QBC	VS3	.680	ZPUF1	76	C1
22	77			TBP									TEC	TEC	.610	ZBAZC	1000	C1
33	78	.29	88	PCT	8	P2	BM2	-.91					TEH	TEC	.610	ZBAZC	8	C1
33	78	.82	93	PCT	13	P3	BM2	-.75					QBC	VS3	.680	ZPUF1	76	C1
47	78	.34	153	PCT	10	P2	BM2	.82					TEH	TEC	.610	ZBAZC	5	C1
47	78	.89	64	PCT	13	P3	BM2	.74					QBC	VS3	.680	ZPUF1	76	C1
56	78	.22	103	PCT	7	P2	BM1	1.75					TEH	TEC	.610	ZBAZC	6	C1
56	78	.50	99	PCT	9	P3	BM1	1.41					QOH	VS3	.680	ZPUF1	70	H1

ROW	COL	VOLTS	DEG	END	PER	CHN	LOCH	INCH1	INCH2	I	CRLEN	CRMED	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	LI
164	79	.33	122	PCT	9	P2	BW2	.82						TEH	TEC	.619	ZBAZC	70	C1
164	79	.73	96	PCT	11	P3	BW2	.82						11C	VS5	.689	ZPUFZ	76	C1
20	80	1.28	78	PCT	27	P2	VS3	-.84						TEH	TEC	.619	ZBAZC	7	C1
20	80	1.81	77	PCT	27	P3	VS3	-.92						VS3	VS3	.689	ZPUFZ	77	H1
20	80			TBP										TEC	TEC	.619	ZBAZC	1090	C1
36	80	.48	64	PCT	14	P2	BW2	-.88						TEH	TEC	.619	ZBAZC	6	C1
36	80	1.13	82	PCT	17	P3	BW2	-.89						QBC	VS3	.689	ZPUFZ	76	C1
36	80			TBP										TEC	TEC	.619	ZBAZC	1090	C1
37	80	.61	95	PCT	17	P2	BW2	-.97						TEH	TEC	.619	ZBAZC	6	C1
37	80	1.44	78	PCT	21	P3	BW2	-.79						QBC	VS3	.689	ZPUFZ	76	C1
30	80	.28	118	PCT	9	P2	BW2	-.97						TEH	TEC	.619	ZBAZC	6	C1
30	80	.77	88	PCT	12	P3	BW2	-.81						QBC	VS3	.689	ZPUFZ	76	C1
43	80	.38	86	PCT	11	P2	VS3	-.77						TEH	TEC	.619	ZBAZC	6	C1
43	80	.91	83	PCT	16	P3	VS3	-.77						VS3	VS3	.689	ZPUFZ	79	H1
42	81	.31	94	PCT	9	P2	BW2	.93						TEH	TEC	.619	ZBAZC	6	C1
42	81	.79	83	PCT	12	P3	BW2	.83						QBC	VS3	.689	ZPUFZ	76	C1
33	82	2.17	102	PCT	37	P2	BW1	-.89						TEH	TEC	.619	ZBAZC	6	C1
33	82	.22	105	PCT	6	P2	BW2	-.95						TEH	TEC	.619	ZBAZC	6	C1
33	82	.48	112	PCT	8	P3	BW2	-.93						QBC	VS3	.689	ZPUFZ	76	C1
33	82	2.26	81	PCT	32	P3	BW1	-.99						QBN	VS3	.689	ZPUFZ	77	H1
33	82	.61	79	PCT	11	P3	BW1	-.25						QBN	VS3	.689	ZPUFZ	77	H1
33	82			TBP										TEC	TEC	.619	ZBAZC	1090	C1
36	82	1.10	133	PCT	24	P2	BW1	.62						TEH	TEC	.619	ZBAZC	6	C1
36	82	.26	80	PCT	8	P2	BW2	.88						TEH	TEC	.619	ZBAZC	6	C1
36	82	.78	80	PCT	12	P3	BW2	.65						QBC	VS3	.689	ZPUFZ	76	C1
36	82	1.17	80	PCT	20	P3	BW1	.85						QBN	VS3	.689	ZPUFZ	77	H1
36	82			TBP										TEC	TEC	.619	ZBAZC	1090	C1
37	82	.18	137	PCT	5	P2	BW1	.88						TEH	TEC	.619	ZBAZC	6	C1
37	82	.46	83	PCT	9	P3	BW1	.89						QBN	VS3	.689	ZPUFZ	77	H1
37	82	.62	89	PCT	11	P3	VS3	.12						QBN	VS3	.689	ZPUFZ	77	H1
37	82			TBP										TEC	TEC	.619	ZBAZC	1090	C1
30	82	.56	94	PCT	16	P2	VS3	-.86						TEH	TEC	.619	ZBAZC	6	C1
30	82	.96	75	PCT	17	P3	VS3	-.91						VS3	VS3	.689	ZPUFZ	77	H1
46	82	.61	41	PCT	14	P2	BW1	-.88						TEH	TEC	.619	ZBAZC	6	C1
46	82	.29	110	PCT	8	P2	VS3	-.93						TEH	TEC	.619	ZBAZC	6	C1
46	82	.98	99	PCT	17	P3	BW1	-.88						QBN	VS3	.689	ZPUFZ	79	H1
46	82	.52	99	PCT	19	P3	VS3	-.84						QBN	VS3	.689	ZPUFZ	79	H1
47	82	.30	128	PCT	9	P2	BW1	-.95						TEH	TEC	.619	ZBAZC	6	C1
47	82	.44	115	PCT	8	P3	BW1	-.78						QBN	VS3	.689	ZPUFZ	79	H1
36	84	1.94	95	PCT	34	P2	BW1	-.94						TEH	TEC	.619	ZBAZC	6	C1
36	84	.34	46	PCT	19	P2	BW1	.97						TEH	TEC	.619	ZBAZC	6	C1
36	84	2.61	81	PCT	34	P3	BW1	-.94						QBN	VS3	.689	ZPUFZ	77	H1
36	84	.93	88	PCT	16	P3	BW1	.91						QBN	VS3	.689	ZPUFZ	77	H1
36	84			TBP										TEC	TEC	.619	ZBAZC	1090	C1
37	84	.41	82	PCT	12	P2	BW1	-.83						TEH	TEC	.619	ZBAZC	6	C1
37	84	.94	100	PCT	16	P3	BW1	-.97						QBN	VS3	.689	ZPUFZ	77	H1
37	84			TBP										TEC	TEC	.619	ZBAZC	1090	C1
30	84	.28	137	PCT	9	P2	BW1	.79						TEH	TEC	.619	ZBAZC	6	C1
30	84	.65	98	PCT	19	P3	BW1	.89						QBN	VS3	.689	ZPUFZ	77	H1
30	84			TBP										TEC	TEC	.619	ZBAZC	1090	C1
47	84	.43	48	PCT	13	P2	BW2	.97						TEH	TEC	.619	ZBAZC	6	C1
47	84	.98	82	PCT	15	P3	BW2	.89						QBC	VS3	.689	ZPUFZ	76	C1
81	84	.15	62	MRH			Q1H	31.75						VS3	TEH	.619	ZBAZC	36	H1
107	84	.26	130	PCT	8	P2	BW1	-1.78						VS3	TEH	.619	ZBAZC	43	H1
107	84	.66	83	PCT	12	P3	BW1	-1.78						QBN	VS2	.689	ZPUFZ	77	H1
131	84	.92	103	PCT	21	P2	VS3	-1.66						VS3	TEC	.619	ZBAZC	36	C1
131	84	1.67	82	PCT	26	P3	VS3	-1.66						VS3	VS3	.689	ZPUFZ	77	H1
48	85	.65	88	PCT	17	P2	VS3	.82						TEH	TEC	.619	ZBAZC	6	C1
48	85	.99	85	PCT	17	P3	VS3	.91						VS3	VS3	.689	ZPUFZ	77	H1



ROW	COL	VOLTS	DEG	END	PER	CHN	LOCH	INCH1	INCH2	I	CRLEN	CRMED	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L1
37	88	.22	04	PCT	7	P2	VS3	.05						TEH	TEC	.610	ZBAZC	5	C1
37	88	.67	85	PCT	12	P3	VS3	.80						VS3	VS3	.680	ZPUFZ	77	H1
41	88	.77	108	PCT	10	P2	BW1	-.00						TEH	TEC	.610	ZBAZC	5	C1
41	88	.06	80	PCT	17	P3	BW1	-1.03						QBH	VS3	.680	ZPUFZ	77	H1
41	88			TBP										TEC	TEC	.610	ZBAZC	1000	C1
45	88	.70	00	PCT	18	P2	VS3	1.00						TEH	TEC	.610	ZBAZC	5	C1
45	88	1.40	81	PCT	23	P3	VS3	.70						VS3	VS3	.680	ZPUFZ	77	H1
46	87	.83	114	PCT	20	P2	VS3	.70						TEH	TEC	.610	ZBAZC	5	C1
46	87	1.01	83	PCT	17	P3	VS3	.73						VS3	VS3	.680	ZPUFZ	77	H1
48	87	.34	64	PCT	10	P2	BW2	.73						TEH	TEC	.610	ZBAZC	5	C1
48	87	1.28	82	PCT	10	P3	BW2	.88						BW2	VS3	.680	ZPUFZ	75	C1
56	87	.27	35	PCT	10	P2	BW1	-1.53						VS3	TEH	.610	ZBAZC	36	H1
56	87	.20	122	PCT	8	P2	VS3	.60						VS3	TEH	.610	ZBAZC	36	H1
56	87	.00	06	PCT	16	P3	BW1	-1.60						QBH	VS3	.680	ZPUFZ	70	H1
56	87	.67	86	PCT	10	P3	VS3	.70						QBH	VS3	.680	ZPUFZ	70	H1
41	88	.43	115	PCT	12	P2	BW2	-1.04						TEH	TEC	.610	ZBAZC	6	C1
41	88	.10	30	PCT	6	P2	BW2	.00						TEH	TEC	.610	ZBAZC	6	C1
41	88	.81	80	PCT	13	P3	BW2	-.85						QBH	VS3	.680	ZPUFZ	75	C1
41	88	.70	86	PCT	11	P3	BW2	.72						QBH	VS3	.680	ZPUFZ	75	C1
41	88			TBP										TEC	TEC	.610	ZBAZC	1000	C1
43	88	.41	112	PCT	12	P2	BW1	.88						TEH	TEC	.610	ZBAZC	6	C1
43	88	.26	137	PCT	8	P2	VS3	-.00						TEH	TEC	.610	ZBAZC	6	C1
43	88	.83	80	PCT	15	P3	BW1	.05						QBH	VS3	.680	ZPUFZ	77	H1
43	88	.77	70	PCT	14	P3	VS3	-.07						QBH	VS3	.680	ZPUFZ	77	H1
43	88			TBP										TEC	TEC	.610	ZBAZC	1000	C1
40	88	.20	74	PCT	6	P2	BW2	-1.00						TEH	TEC	.610	ZBAZC	6	C1
40	88	.40	70	PCT	6	P3	BW2	-.03						QBH	VS3	.680	ZPUFZ	75	C1
163	88	.27	03	PCT	8	P2	BW2	.88						VS3	TEC	.610	ZBAZC	37	C1
163	88	.76	80	PCT	12	P3	BW2	.86						11C	VS5	.680	ZPUFZ	76	C1
165	88	.34	126	PCT	10	P2	BW2	.70						VS3	TEC	.610	ZBAZC	37	C1
165	88	1.11	77	PCT	17	P3	BW2	.70						11C	VS5	.680	ZPUFZ	76	C1
42	80	.19	70	PCT	6	P2	BW2	.72						TEH	TEC	.610	ZBAZC	6	C1
42	80	.35	84	PCT	6	P3	BW2	.42						QBH	VS3	.680	ZPUFZ	75	C1
42	80			TBP										TEC	TEC	.610	ZBAZC	1000	C1
04	80	.25	72	MBH			6	QBH	32.47					VS3	TEH	.610	ZBAZC	35	H1
41	00	.23	61	PCT	7	P2	VS3	-.77						TEH	TEC	.610	ZBAZC	6	C1
41	00	.20	67	PCT	0	P2	BW2	.00						TEH	TEC	.610	ZBAZC	6	C1
41	00	.67	80	PCT	0	P3	VS3	-.66						QBH	VS3	.680	ZPUFZ	75	C1
41	00	.76	84	PCT	12	P3	BW2	.66						QBH	VS3	.680	ZPUFZ	75	C1
41	00			TBP										TEC	TEC	.610	ZBAZC	1000	C1
46	01	.32	122	PCT	10	P2	BW1	-.04						TEH	TEC	.610	ZBAZC	6	C1
46	01	.88	88	PCT	15	P3	BW1	-.04						QBH	VS3	.680	ZPUFZ	77	H1
46	01	.67	80	PCT	12	P3	BW1	-.67						QBH	VS3	.680	ZPUFZ	77	H1
46	01			TBP										TEC	TEC	.610	ZBAZC	1000	C1
45	02	4.11	04	PCT	45	P2	BW1	-.04						TEH	TEC	.610	ZBAZC	6	C1
45	02	.66	82	PCT	15	P2	BW1	-.21						TEH	TEC	.610	ZBAZC	6	C1
45	02	.22	62	PCT	7	P2	BW1	.07						TEH	TEC	.610	ZBAZC	6	C1
45	02	3.03	77	PCT	30	P3	BW1	-1.05						QBH	VS3	.680	ZPUFZ	77	H1
45	02	1.17	87	PCT	20	P3	BW1	-.28						QBH	VS3	.680	ZPUFZ	77	H1
45	02	.18	34	PCT	4	P3	BW1	.93						QBH	VS3	.680	ZPUFZ	77	H1
45	02			TBP										TEC	TEC	.610	ZBAZC	1000	C1
46	03	.28	113	PCT	8	P2	VS3	.03						TEH	TEC	.610	ZBAZC	5	C1
46	03	.33	166	PCT	0	P2	BW2	.70						TEH	TEC	.610	ZBAZC	5	C1
46	03	.53	80	PCT	8	P3	VS3	.87						QBH	VS3	.680	ZPUFZ	75	C1
46	03	.61	108	PCT	10	P3	BW2	.60						QBH	VS3	.680	ZPUFZ	75	C1
46	03	.64	103	PCT	10	P3	BW2	.61						QBH	VS3	.680	ZPUFZ	75	C1
46	03			TBP										TEC	TEC	.610	ZBAZC	1000	C1
45	04	.60	107	PCT	13	P2	VS3	-.70						TEH	TEC	.610	ZBAZC	5	C1
45	04	.86	88	PCT	15	P3	VS3	-.91						VS3	VS3	.680	ZPUFZ	77	H1
47	04	.67	00	PCT	15	P2	BW1	-1.03						TEH	TEC	.610	ZBAZC	5	C1
47	04	.44	85	PCT	12	P2	VS3	-.03						TEH	TEC	.610	ZBAZC	5	C1

ROW	COL	VOLTS	DEG	END	FER	CNN	LOCH	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDJA	PTYPE	CAL	LI
47	04	.82	90	FCT	15	P3	BW1	-1.01					QBN	VS3	.680	ZPUFZ	77	H1	
47	04	1.08	73	FCT	18	P3	VS3	-1.18					QBN	VS3	.680	ZPUFZ	77	H2	
47	04			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
48	04	.55	87	FCT	14	P2	VS3	.84					TEH	TEC	.610	ZBAZC	6	C1	
48	04	1.10	70	FCT	20	P3	VS3	.80					VS3	VS3	.680	ZPUFZ	77	H1	
48	04			TBP									TEH	TEH	.610	ZBAZC	1000	C1	
106	05	.29	138	FCT	8	P2	VS3	-.80					VS3	TEH	.610	ZBAZC	44	H1	
106	05	.61	84	FCT	11	P3	VS3	-.77					VS3	VS3	.680	ZPUFZ	77	H1	
40	06	.75	05	FCT	10	P2	BW1	-.85					TEH	TEC	.610	ZBAZC	6	C1	
40	06	1.42	83	FCT	23	P3	BW1	-.98					QBN	VS3	.680	ZPUFZ	77	H1	
40	06	.72	92	FCT	13	P3	BW1	-.97					QBN	VS3	.680	ZPUFZ	77	H1	
40	06			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
46	07	.26	123	FCT	8	P2	BW1	-1.12					TEH	TEC	.610	ZBAZC	6	C1	
46	07	.47	82	FCT	9	P3	BW1	-1.07					BW1	VS3	.680	ZPUFZ	77	H1	
46	07			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
47	08	1.03	06	FCT	35	P2	BW1	1.00					TEH	TEC	.610	ZBAZC	6	C1	
47	08	.46	81	FCT	12	P2	VS3	1.04					TEH	TEC	.610	ZBAZC	6	C1	
47	08	2.76	77	FCT	37	P3	BW1	.88					QBN	VS3	.680	ZPUFZ	77	H1	
47	08	.91	75	FCT	16	P3	VS3	.60					QBN	VS3	.680	ZPUFZ	77	H1	
47	08			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
40	08	.68	05	FCT	17	P2	BW1	-.92					TEH	TEC	.610	ZBAZC	6	C1	
40	08	.80	84	FCT	14	P3	QBN	1.26					QBN	VS3	.680	ZPUFZ	77	H1	
40	08	1.31	82	FCT	21	P3	BW1	-1.18					QBN	VS3	.680	ZPUFZ	77	H1	
40	08			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
46	09	.34	83	FCT	10	P2	BW2	-1.02					TEH	TEC	.610	ZBAZC	6	C1	
46	09	.42	70	MBH	6	QBC		8.08					TEH	TEC	.610	ZBAZC	6	C1	
46	09	.65	93	FCT	10	P3	BW2	-.92					QBC	VS3	.680	ZPUFZ	76	C1	
46	09			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
50	09	1.16	93	FCT	26	P2	BW1	-.87					TEH	TEC	.610	ZBAZC	6	C1	
50	09	1.53	81	FCT	24	P3	BW1	-.85					QBN	VS3	.680	ZPUFZ	77	H1	
50	09			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
46	100	1.80	00	FCT	33	P2	BW1	-1.05					TEH	TEC	.610	ZBAZC	6	C1	
46	100	.43	124	FCT	13	P2	VS3	-.97					TEH	TEC	.610	ZBAZC	6	C1	
46	100	2.63	80	FCT	35	P3	BW1	-1.05					QBN	VS3	.680	ZPUFZ	77	H1	
46	100	1.00	82	FCT	17	P3	VS3	-.97					QBN	VS3	.680	ZPUFZ	77	H1	
46	100			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
47	100	1.47	94	FCT	29	P2	BW1	-.94					TEH	TEC	.610	ZBAZC	6	C1	
47	100	1.48	88	FCT	24	P3	BW1	-.94					QBN	VS3	.680	ZPUFZ	77	H1	
47	100			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
40	100	.81	08	FCT	20	P2	BW1	.85					TEH	TEC	.610	ZBAZC	6	C1	
40	100	1.08	82	FCT	18	P3	BW1	.89					QBN	VS3	.680	ZPUFZ	77	H1	
40	100			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
46	101	.35	115	FCT	11	P2	BW1	-.83					TEH	TEC	.610	ZBAZC	6	C1	
46	101	.81	110	FCT	14	P3	BW1	-.83					QBN	VS3	.680	ZPUFZ	76	H1	
46	101	.57	83	FCT	10	P3	BW1	.90					QBN	VS3	.680	ZPUFZ	76	H1	
46	101			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
48	101	.63	76	FCT	17	P2	BW1	-.77					TEH	TEC	.610	ZBAZC	6	C1	
48	101	.94	102	FCT	16	P3	BW1	-.77					QBN	VS3	.680	ZPUFZ	76	H1	
48	101			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
50	101	.22	86	FCT	7	P2	BW1	-.95					TEH	TEC	.610	ZBAZC	6	C1	
50	101	.29	65	FCT	9	P2	BW1	.82					TEH	TEC	.610	ZBAZC	6	C1	
50	101	.74	77	FCT	13	P3	BW1	-.97					QBN	VS3	.680	ZPUFZ	76	H1	
50	101	.89	87	FCT	15	P3	BW1	.74					QBN	VS3	.680	ZPUFZ	76	H1	
50	101			TBP									TEC	TEC	.610	ZBAZC	1000	C1	
54	101	.38	105	FCT	11	P2	BW1	-1.42					TEH	TEC	.610	ZBAZC	6	C1	
54	101	1.07	88	FCT	18	P3	BW1	-1.39					QBN	BW1	.680	ZPUFZ	70	H1	
64	101	1.67	112	FCT	31	P2	VS3	-.71					VS3	TEC	.610	ZBAZC	17	C1	
64	101	1.94	77	FCT	29	P3	VS3	-.84					VS3	VS3	.680	ZPUFZ	70	H1	
64	101	.59	72	FCT	11	P3	VS3	.99					VS3	VS3	.680	ZPUFZ	70	H1	
66	101	.26	134	FCT	8	P2	VS3	-.78					VS3	TEC	.610	ZBAZC	17	C1	
66	101	.71	82	FCT	13	P3	VS3	-.85					VS3	VS3	.680	ZPUFZ	70	H1	
40	102	.77	126	FCT	19	P2	BW1	-.83					TEH	TEC	.610	ZBAZC	6	C1	

ROW	COL	VOLTS	DEG	END	PER	CHH	LOCH	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	LI
40	102	.92	01	PCT	16	P3	BW1	-.85						QDH	VS3	.680	ZPUFZ	76	H1
40	102			TBP										TEC	TEC	.610	ZBAZC	1000	C1
50	102	.25	122	PCT	8	P2	VS3	-.85						VS3	TEC	.610	ZBAZC	17	C1
50	102	.82	86	PCT	21	P2	VS3	-.92						VS3	TEC	.610	ZBAZC	17	C1
50	102	.54	84	PCT	10	P3	VS3	-.80						VS3	VS3	.680	ZPUFZ	70	H1
50	102	1.72	83	PCT	26	P3	VS3	.75						VS3	VS3	.680	ZPUFZ	70	H1
71	102	.20	82	MBM		6	Q4H	7.00						VS3	TEH	.610	ZBAZC	34	H1
101	102	.40	67	PCT	13	P2	VS4	1.06						VS3	TEC	.610	ZBAZC	42	C1
101	102	.87	05	PCT	17	P3	VS4	1.07						VS4	VS4	.680	ZPUFZ	74	C1
46	103	.18	87	PCT	7	P2	BW1	.87						TEC	TEH	.610	ZBAZC	2	H1
46	103	.61	01	PCT	11	P3	BW1	.80						QDH	VS3	.680	ZPUFZ	76	H1
46	103			TBP										TEC	TEC	.610	ZBAZC	1000	C1
66	103	1.42	113	PCT	32	P2	VS3	-.81						VS3	TEH	.610	ZBAZC	34	H1
66	103	1.36	102	PCT	32	P2	VS3	-.80						VS3	TEH	.610	ZBAZC	34	H1
66	103	1.64	81	PCT	25	P3	VS3	-.75						VS3	VS3	.680	ZPUFZ	70	H1
66	103	.82	79	PCT	14	P3	VS3	-.62						VS3	VS3	.680	ZPUFZ	70	H1
66	103	1.87	76	PCT	28	P3	VS3	-.00						VS3	VS3	.680	ZPUFZ	70	H1
45	104	.18	07	PCT	6	P2	BW2	-.85						TEC	TEH	.610	ZBAZC	1	H1
45	104	.28	112	PCT	5	P3	BW2	-.08						QDH	VS3	.680	ZPUFZ	76	C1
45	104			TBP										TEC	TEC	.610	ZBAZC	1000	C1
51	104	.25	67	PCT	8	P2	BW1	.80						TEC	TEH	.610	ZBAZC	1	H1
51	104	.60	81	PCT	11	P3	BW1	.88						QDH	VS3	.680	ZPUFZ	76	H1
51	104			TBP										TEC	TEC	.610	ZBAZC	1000	C1
48	105	.77	80	PCT	10	P2	BW1	-1.02						TEC	TEH	.610	ZBAZC	1	H1
48	105	1.00	108	PCT	25	P2	VS3	.81						TEC	TEH	.610	ZBAZC	1	H1
48	105	1.84	83	PCT	28	P3	BW1	-1.02						BW1	VS3	.680	ZPUFZ	76	H1
48	105	.94	77	PCT	16	P3	BW1	.82						BW1	VS3	.680	ZPUFZ	76	H1
48	105	1.10	75	PCT	20	P3	VS3	.81						BW1	VS3	.680	ZPUFZ	76	H1
48	105			TBP										TEC	TEC	.610	ZBAZC	1000	C1
50	105	.20	100	PCT	0	P2	BW1	-1.02						TEC	TEH	.610	ZBAZC	1	H1
50	105	.85	88	PCT	15	P3	BW1	-1.02						QDH	VS3	.680	ZPUFZ	76	H1
50	105			TBP										TEC	TEC	.610	ZBAZC	1000	C1
46	106	.37	103	PCT	11	P2	BW2	-.91						TEC	TEH	.610	ZBAZC	1	H1
46	106	.63	87	PCT	10	P3	BW2	-.83						QDH	VS3	.680	ZPUFZ	76	C1
46	106			TBP										TEC	TEC	.610	ZBAZC	1000	C1
47	106	.24	60	PCT	7	P2	BW1	.85						TEC	TEH	.610	ZBAZC	1	H1
47	106	.43	47	PCT	8	P3	BW1	.85						QDH	VS3	.680	ZPUFZ	76	H1
47	106			TBP										TEC	TEC	.610	ZBAZC	1000	C1
56	106	.67	88	PCT	17	P2	BW1	1.71						TEC	TEH	.610	ZBAZC	1	H1
56	106	.67	93	PCT	12	P3	BW1	1.71						QDH	VS3	.680	ZPUFZ	76	H1
50	106	.39	48	PCT	10	P2	BW2	.88						VS3	TEC	.610	ZBAZC	42	C1
50	106	.71	92	PCT	14	P3	BW2	.73						QDH	VS4	.680	ZPUFZ	74	C1
48	107	.81	06	PCT	20	P2	VS3	-.50						TEC	TEH	.610	ZBAZC	1	H1
48	107	.37	84	PCT	11	P2	BW2	.67						TEC	TEH	.610	ZBAZC	1	H1
48	107	1.61	78	PCT	25	P3	VS3	-.50						VS3	VS3	.680	ZPUFZ	76	H1
48	107	.79	80	PCT	14	P3	VS3	1.14						VS3	VS3	.680	ZPUFZ	76	H1
48	107	.68	107	PCT	14	P3	BW2	.87						BW2	VS3	.680	ZPUFZ	81	C1
48	107			TBP										TEH	TEH	.610	ZBAZC	1000	C1
50	107	.96	121	PCT	23	P2	BW1	.87						TEC	TEH	.610	ZBAZC	1	H1
50	107	1.74	80	PCT	26	P3	BW1	.87						QDH	VS3	.680	ZPUFZ	76	H1
50	107			TBP										TEH	TEH	.610	ZBAZC	1000	C1
74	107	.50	01	MBM		6	Q3H	7.52						VS3	TEH	.610	ZBAZC	34	H1
170	107	.42	114	PCT	11	P2	VS3	.80						VS3	TEC	.610	ZBAZC	40	C1
170	107	.46	88	PCT	10	P3	VS3	.83						VS3	VS3	.680	ZPUFZ	81	C1
46	108	.98	06	PCT	23	P2	BW1	-.91						TEC	TEH	.610	ZBAZC	1	H1
46	108	.31	103	PCT	9	P2	BW2	-.98						TEC	TEH	.610	ZBAZC	1	H1
46	108	.78	80	PCT	12	P3	BW2	-.94						QDH	VS3	.680	ZPUFZ	76	C1
46	108	1.75	81	PCT	26	P3	BW1	-.91						QDH	VS3	.680	ZPUFZ	76	H1
46	108			TBP										TEC	TEC	.610	ZBAZC	1000	C1
47	108	.20	68	PCT	6	P2	VS3	-.84						TEC	TEH	.610	ZBAZC	1	H1
47	108	.44	67	PCT	8	P3	VS3	-.84						VS3	VS3	.680	ZPUFZ	76	H1

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOGN	INCH1	INCH2	I	ORLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
49	108	3.34	104	PCT	44	P2	BW1	-.82						TEC	TEH	.010	ZBAZC	1	H
49	108	.49	122	PCT	14	P2	BW1	.83						TEC	TEH	.010	ZBAZC	1	H
49	108	3.40	74	PCT	41	P3	BW1	-.82						QBH	V23	.380	ZPUFZ	76	H
49	108	1.11	78	PCT	19	P3	BW1	.83						QBH	V23	.380	ZPUFZ	76	H
49	108			TBP										TEC	TEC	.010	ZBAZC	1000	C
50	109	.18	58	PCT	6	P2	BW1	.89						TEC	TEH	.010	ZBAZC	1	H
50	109	.59	59	PCT	11	P3	BW1	.89						QBH	V23	.380	ZPUFZ	76	H
50	109			TBP										TEC	TEC	.010	ZBAZC	1000	C
50	109	.34	150	PCT	10	P2	BW1	-.80						V23	TEH	.010	ZBAZC	33	H
50	109	.84	77	PCT	13	P3	BW1	-.79						10H	V22	.380	ZPUFZ	77	H
110	109	.33	120	PCT	10	P2	V23	1.08						V23	TEH	.010	ZBAZC	31	H
110	109	.65	75	PCT	12	P3	V23	1.08						V23	V23	.380	ZPUFZ	77	H
45	110	.23	58	PCT	7	P2	BW1	-1.05						TEC	TEH	.010	ZBAZC	1	H
45	110	.54	93	PCT	10	P3	BW1	-1.05						QBH	V23	.380	ZPUFZ	76	H
45	110			TBP										TEC	TEC	.010	ZBAZC	1000	C
48	111	.33	72	PCT	10	P2	BW1	-.88						TEC	TEH	.010	ZBAZC	1	H
48	111	.64	110	PCT	12	P3	BW1	-.88						BW1	V23	.380	ZPUFZ	76	H
48	111			TBP										TEC	TEC	.010	ZBAZC	1000	C
47	112	2.82	107	PCT	42	P2	BW1	-1.02						TEC	TEH	.010	ZBAZC	1	H
47	112	.25	37	PCT	8	P2	BW1	.88						TEC	TEH	.010	ZBAZC	1	H
47	112	.87	101	PCT	18	P2	V23	-.75						TEC	TEH	.010	ZBAZC	1	H
47	112	.27	155	PCT	6	P2	BW2	-.89						TEC	TEH	.010	ZBAZC	1	H
47	112	1.64	83	PCT	23	P3	V23	-.62						QBH	V23	.380	ZPUFZ	76	C
47	112	.61	106	PCT	10	P3	BW2	-.71						QBH	V23	.380	ZPUFZ	76	C
47	112	3.17	73	PCT	40	P3	BW1	-1.02						QBH	V23	.380	ZPUFZ	76	H
47	112	.63	87	PCT	11	P3	BW1	-.88						QBH	V23	.380	ZPUFZ	76	H
47	112	1.45	77	PCT	23	P3	V23	-.75						QBH	V23	.380	ZPUFZ	76	H
47	112	.61	81	PCT	11	P3	V23	-.26						QBH	V23	.380	ZPUFZ	76	H
47	112			TBP										TEC	TEC	.010	ZBAZC	1000	C
49	112	.50	100	PCT	14	P2	BW1	-1.07						TEC	TEH	.010	ZBAZC	1	H
49	112	.83	86	PCT	14	P3	BW1	-1.07						QBH	V23	.380	ZPUFZ	76	H
49	112			TBP										TEC	TEC	.010	ZBAZC	1000	C
51	112	.22	51	PCT	7	P2	BW1	.82						TEC	TEH	.010	ZBAZC	1	H
51	112	.32	81	PCT	6	P3	BW1	.91						QBH	V23	.380	ZPUFZ	76	H
57	112	.24	118	PCT	8	P2	V22	1.02						V23	TEH	.010	ZBAZC	33	H
57	112	.64	98	PCT	12	P3	V22	1.02						BW1	V23	.380	ZPUFZ	77	H
59	112	.28	141	PCT	9	P2	BW1	.77						V23	TEH	.010	ZBAZC	33	H
59	112	.59	92	PCT	11	P3	BW1	.74						QBH	V22	.380	ZPUFZ	77	H
113	112	.34	131	PCT	9	P2	V24	-.62						V23	TEC	.010	ZBAZC	42	C
113	112	.63	90	PCT	13	P3	V24	-.61						V24	V24	.380	ZPUFZ	74	C
42	113	1.11	99	PCT	22	P2	V23	-.80						TEC	TEH	.010	ZBAZC	1	H
42	113	.30	128	PCT	9	P2	BW2	-.93						TEC	TEH	.010	ZBAZC	1	H
42	113	.42	121	PCT	12	P2	BW2	1.00						TEC	TEH	.010	ZBAZC	1	H
42	113	1.88	76	PCT	26	P3	V23	-.67						QBH	V23	.380	ZPUFZ	76	C
42	113	.44	80	PCT	7	P3	BW2	-.81						QBH	V23	.380	ZPUFZ	76	C
42	113	.98	87	PCT	13	P3	BW2	.86						QBH	V23	.380	ZPUFZ	76	C
42	113			TBP										TEC	TEC	.010	ZBAZC	1000	C
44	113	1.51	122	PCT	30	P2	V23	-.80						TEC	TEH	.010	ZBAZC	3	H
44	113	.77	109	PCT	19	P2	BW2	-1.02						TEC	TEH	.010	ZBAZC	3	H
44	113	2.08	81	PCT	28	P3	V23	-.76						QBH	V23	.380	ZPUFZ	76	C
44	113	.88	98	PCT	13	P3	BW2	-.97						QBH	V23	.380	ZPUFZ	76	C
44	113			TBP										TEC	TEC	.010	ZBAZC	1000	C
46	113	.47	103	PCT	13	P2	V23	-.68						TEC	TEH	.010	ZBAZC	3	H
46	113	.30	90	PCT	9	P2	BW2	.91						TEC	TEH	.010	ZBAZC	3	H
46	113	1.60	78	PCT	23	P3	V23	-.54						QBH	V23	.380	ZPUFZ	76	C
46	113	.74	93	PCT	12	P3	BW2	.90						QBH	V23	.380	ZPUFZ	76	C
46	113			TBP										TEC	TEC	.010	ZBAZC	1000	C
48	113	1.31	121	PCT	28	P2	BW1	.83						TEC	TEH	.010	ZBAZC	3	H
48	113	.64	120	PCT	17	P2	V23	-.57						TEC	TEH	.010	ZBAZC	3	H
48	113	2.28	77	PCT	32	P3	BW1	.83						BW1	V23	.380	ZPUFZ	76	H
48	113	1.37	77	PCT	22	P3	V23	-.57						BW1	V23	.380	ZPUFZ	76	H
48	113			TBP										TEC	TEC	.010	ZBAZC	1000	C
50	113	.26	158	PCT	8	P2	BW1	.78						TEC	TEH	.010	ZBAZC	3	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOGN	INCH1	INCH2	I	ORLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
-----	-----	-------	-----	-----	-----	-----	------	-------	-------	---	-------	-------	-----	------	------	------	-------	-----	---

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
30	113	.08	85	PCT	12	P3	BW1	.81						Q9H	V83	.580	ZPUFZ	70	H
41	114	.41	96	PCT	12	P2	BW2	.57						TEC	TEH	.610	ZBAZC	3	H
41	114	.68	82	PCT	11	P3	BW2	.81						Q9C	V83	.580	ZPUFZ	75	C
41	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	114	.18	141	PCT	0	P2	BW2	.98						TEC	TEH	.610	ZBAZC	3	H
43	114	.38	93	PCT	0	P3	BW2	.81						Q9C	V83	.580	ZPUFZ	75	C
43	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
45	114	.52	94	PCT	14	P2	BW2	.95						TEC	TEH	.610	ZBAZC	3	H
45	114	1.12	86	PCT	17	P3	BW2	.80						Q9C	V83	.580	ZPUFZ	75	C
45	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	114	.83	118	PCT	21	P2	BW2	.90						TEC	TEH	.610	ZBAZC	3	H
47	114	1.33	79	PCT	20	P3	BW2	.76						Q9C	V83	.580	ZPUFZ	75	C
47	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
137	114	.33	64	PCT	9	P2	V84	-1.02						V83	TEC	.610	ZBAZC	40	C
137	114	.54	69	PCT	11	P3	V84	-1.24						V84	V84	.580	ZPUFZ	74	C
40	115	.69	113	PCT	18	P2	BW2	-.99						TEC	TEH	.610	ZBAZC	3	H
40	115	.72	81	PCT	11	P3	BW2	-.83						Q9C	V83	.580	ZPUFZ	75	C
40	115			TBP										TEC	TEC	.610	ZBAZC	1000	C
42	115	.28	95	PCT	8	P2	V83	-.92						TEC	TEH	.610	ZBAZC	3	H
42	115	.39	143	PCT	11	P2	BW2	-.87						TEC	TEH	.610	ZBAZC	3	H
42	115	.64	83	PCT	10	P3	V83	-.17						Q9C	V83	.580	ZPUFZ	75	C
42	115	.69	92	PCT	11	P3	BW2	-.76						Q9C	V83	.580	ZPUFZ	75	C
42	115			TBP										TEC	TEC	.610	ZBAZC	1000	C
44	115	.74	127	PCT	22	P2	V83	.71						TEC	TEH	.610	ZBAZC	4	H
44	115	.23	65	PCT	9	P2	BW2	.90						TEC	TEH	.610	ZBAZC	4	H
44	115	1.76	78	PCT	24	P3	V83	.77						Q9C	V83	.580	ZPUFZ	75	C
44	115	.91	72	PCT	14	P3	BW2	.89						Q9C	V83	.580	ZPUFZ	75	C
44	115			TBP										TEC	TEC	.610	ZBAZC	1000	C
46	115	.92	119	PCT	17	P2	V83	1.08						TEC	TEH	.610	ZBAZC	4	H
46	115	.28	126	PCT	10	P2	BW2	-.49						TEC	TEH	.610	ZBAZC	4	H
46	115	1.32	83	PCT	19	P3	V83	.85						Q9C	V83	.580	ZPUFZ	75	C
46	115	.73	105	PCT	11	P3	BW2	-.93						Q9C	V83	.580	ZPUFZ	75	C
46	115			TBP										TEC	TEC	.610	ZBAZC	1000	C
98	115	.29	112	PCT	11	P2	V83	-.69						V83	TEH	.610	ZBAZC	34	H
98	115	.92	89	PCT	16	P3	V83	-.69						V83	V83	.580	ZPUFZ	77	H
02	115	.22	90	PCT	8	P2	BW1	.79						V83	TEH	.610	ZBAZC	34	H
02	115	.69	93	PCT	13	P3	BW1	.78						Q9H	V82	.580	ZPUFZ	77	H
39	116	.42	143	PCT	12	P2	BW1	-.69						TEC	TEH	.610	ZBAZC	3	H
39	116	.44	97	PCT	12	P2	V83	.71						TEC	TEH	.610	ZBAZC	3	H
39	116	1.00	76	PCT	17	P3	Q9H	.14						Q9H	V83	.580	ZPUFZ	76	H
39	116	.78	89	PCT	14	P3	BW1	-.69						Q9H	V83	.580	ZPUFZ	76	H
39	116	.83	74	PCT	15	P3	V83	.83						Q9H	V83	.580	ZPUFZ	76	H
39	116			TBP										TEC	TEC	.610	ZBAZC	1000	C
41	116	.37	143	PCT	13	P2	BW2	.81						TEC	TEH	.610	ZBAZC	4	H
41	116	.47	91	PCT	8	P3	BW2	.72						Q9C	V83	.580	ZPUFZ	75	C
41	116			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	116	.68	120	PCT	21	P2	BW2	.85						TEC	TEH	.610	ZBAZC	4	H
43	116	1.12	78	PCT	17	P3	BW2	.72						Q9C	V83	.580	ZPUFZ	75	C
43	116			TBP										TEC	TEC	.610	ZBAZC	1000	C
45	116	.33	84	PCT	12	P2	BW2	.82						TEC	TEH	.610	ZBAZC	4	H
45	116	.67	85	PCT	11	P3	BW2	.77						Q9C	V83	.580	ZPUFZ	75	C
45	116			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	116	.33	143	PCT	12	P2	BW1	-.73						TEC	TEH	.610	ZBAZC	4	H
47	116	.74	77	PCT	13	P3	BW1	-.73						Q9H	V83	.580	ZPUFZ	76	H
48	116	.63	83	PCT	20	P2	BW1	-.82						TEC	TEH	.610	ZBAZC	4	H
48	116	.29	52	PCT	11	P2	BW1	-.20						TEC	TEH	.610	ZBAZC	4	H
48	116	1.07	92	PCT	18	P3	BW1	-.82						Q9H	V83	.580	ZPUFZ	76	H
48	116	1.08	90	PCT	18	P3	BW1	-.20						Q9H	V83	.580	ZPUFZ	76	H
48	117	.23	102	PCT	8	P2	V83	-.76						TEC	TEH	.610	ZBAZC	3	H
48	117	.57	93	PCT	11	P3	V83	-.83						V83	V83	.580	ZPUFZ	76	H
37	118	.41	110	PCT	12	P2	BW2	-.83						TEC	TEH	.610	ZBAZC	3	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
37	118	.53	88	PCT	8	P3	BW2	-.92						QBK	V33	.980	ZPUFZ	75	C
37	118			TBP										TEC	TEC	.610	ZBAZC	1000	C
41	118	.52	127	PCT	14	P2	BW1	.84						TEC	TEH	.610	ZBAZC	3	H
41	118	.33	102	PCT	10	P2	BW2	-.93						TEC	TEH	.610	ZBAZC	3	H
41	118	.64	103	PCT	10	P3	BW2	-.76						QBK	V33	.980	ZPUFZ	75	C
41	118	.81	97	PCT	14	P3	BW1	.84						QBK	V33	.980	ZPUFZ	76	H
41	118			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	118	.28	122	PCT	8	P2	BW1	.91						TEC	TEH	.610	ZBAZC	3	H
43	118	.24	112	PCT	7	P2	V33	.73						TEC	TEH	.610	ZBAZC	3	H
43	118	.53	58	PCT	10	P3	BW1	.91						QBK	V33	.980	ZPUFZ	76	H
43	118	.87	74	PCT	13	P3	V33	.91						QBK	V33	.980	ZPUFZ	76	H
43	118			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	118	1.40	114	PCT	29	P2	BW1	.88						TEC	TEH	.610	ZBAZC	3	H
47	118	1.60	79	PCT	23	P3	BW1	.88						QBK	V33	.980	ZPUFZ	76	H
49	118	1.53	118	PCT	30	P2	BW1	.73						TEC	TEH	.610	ZBAZC	3	H
49	118	1.79	74	PCT	27	P3	BW1	.73						QBK	V33	.980	ZPUFZ	76	H
63	118	.23	152	PCT	9	P2	BW1	.81						V33	TEH	.610	ZBAZC	34	H
63	118	.88	80	PCT	13	P3	BW1	.88						QBK	V33	.980	ZPUFZ	77	H
67	118	.71	76	MBN		6	B2C	22.10						V33	TEC	.610	ZBAZC	45	C
30	119	.38	120	PCT	13	P2	B2H	.74						TEC	TEH	.610	ZBAZC	4	H
30	119	2.39	102	PCT	42	P2	V33	-.88						TEC	TEH	.610	ZBAZC	4	H
30	119	.70	117	PCT	21	P2	BW2	-.85						TEC	TEH	.610	ZBAZC	4	H
30	119	1.19	76	PCT	18	P3	V33	-.78						QBK	V33	.980	ZPUFZ	75	C
30	119	3.37	77	PCT	48	P3	V33	-.77						QBK	V33	.980	ZPUFZ	75	C
30	119	.63	76	PCT	9	P3	V33	-.77						QBK	V33	.980	ZPUFZ	75	C
30	119	1.11	83	PCT	17	P3	BW2	-.71						QBK	V33	.980	ZPUFZ	75	C
30	119	1.10	80	PCT	18	P3	B2H	.74						QBK	B2H	.900	ZPAHZ	80	H
30	119			TBP										TEH	TEH	.610	ZBAZC	1000	C
38	119	.33	126	PCT	12	P2	BW1	.81						TEC	TEH	.610	ZBAZC	4	H
38	119	.54	107	PCT	18	P2	V33	-.78						TEC	TEH	.610	ZBAZC	4	H
38	119	.58	08	PCT	11	P3	B2H	.88						QBK	B2H	.980	ZPUFZ	76	H
38	119	.67	91	PCT	12	P3	BW1	.81						QBK	V33	.980	ZPUFZ	76	H
38	119	1.01	73	PCT	17	P3	V33	-.78						QBK	V33	.980	ZPUFZ	76	H
38	119			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	119	.39	141	PCT	14	P2	BW1	.74						TEC	TEH	.610	ZBAZC	4	H
40	119	.93	89	PCT	18	P3	BW1	.74						QBK	V33	.980	ZPUFZ	76	H
40	119	.51	71	PCT	10	P3	V33	-1.06						QBK	V33	.980	ZPUFZ	76	H
40	119			TBP										TEC	TEC	.610	ZBAZC	1000	C
44	119	.33	134	PCT	12	P2	V33	-.83						TEC	TEH	.610	ZBAZC	4	H
44	119	.87	83	PCT	13	P3	V33	-.83						V33	V33	.980	ZPUFZ	76	H
48	119	.42	109	PCT	14	P2	V33	-.75						TEC	TEH	.610	ZBAZC	4	H
48	119	.73	71	PCT	13	P3	V33	-.75						V33	V33	.980	ZPUFZ	76	H
35	120	.32	133	PCT	17	P2	V33	.76						TEC	TEH	.610	ZBAZC	4	H
35	120	.64	99	PCT	20	P2	BW2	-.81						TEC	TEH	.610	ZBAZC	4	H
35	120	1.22	82	PCT	18	P3	V33	.73						QBK	V33	.980	ZPUFZ	75	C
35	120	.87	58	PCT	13	P3	BW2	-.85						QBK	V33	.980	ZPUFZ	75	C
35	120			TBP										TEC	TEC	.610	ZBAZC	1000	C
37	120	.64	122	PCT	20	P2	BW1	-.93						TEC	TEH	.610	ZBAZC	4	H
37	120	.19	106	PCT	7	P2	BW2	-.86						TEC	TEH	.610	ZBAZC	4	H
37	120	.45	103	PCT	7	P3	BW2	-.74						QBK	V33	.980	ZPUFZ	75	C
37	120	1.19	74	PCT	20	P3	BW1	-.79						QBK	V33	.980	ZPUFZ	76	H
37	120			TBP										TEC	TEC	.610	ZBAZC	1000	C
41	120	.22	135	PCT	8	P2	V33	-.83						TEC	TEH	.610	ZBAZC	4	H
41	120	.63	72	PCT	12	P3	V33	-.83						V33	V33	.980	ZPUFZ	76	H
43	120	.60	124	PCT	19	P2	V33	-.71						TEC	TEH	.610	ZBAZC	4	H
43	120	1.09	73	PCT	18	P3	V33	-.71						V33	V33	.980	ZPUFZ	76	H
45	120	.42	133	PCT	14	P2	BW1	-.80						TEC	TEH	.610	ZBAZC	4	H
45	120	1.09	119	PCT	28	P2	V33	-.76						TEC	TEH	.610	ZBAZC	4	H
45	120	.91	99	PCT	18	P3	BW1	-.80						QBK	V33	.980	ZPUFZ	76	H
45	120	1.84	73	PCT	27	P3	V33	-1.01						QBK	V33	.980	ZPUFZ	76	H
47	120	1.09	113	PCT	28	P2	V33	-.87						TEC	TEH	.610	ZBAZC	4	H
47	120	1.88	85	PCT	28	P3	V33	-.87						V33	V33	.980	ZPUFZ	76	H

ROW	COL	VOLTS	DEG	IND	PER	CHH	LOGN	INCH1	INCH2	I	ORLEN	GRWID	CEG	BEGT	ENDT	PSIA	PTYPE	CAL	L
79	120	.28	98	PCT	10	P2	V33	-.63						V33	TEH	.610	ZBAZC	30	H
79	120	.87	98	PCT	13	P3	V33	-.75						V33	V33	.580	ZPUFZ	77	H
38	121	.97	114	PCT	23	P2	V33	-.75						TEC	TEH	.610	ZBAZC	3	H
38	121	1.35	86	PCT	22	P3	V33	-.75						V33	V33	.580	ZPUFZ	76	H
38	121			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	121	.33	101	PCT	10	P2	V33	-.91						TEC	TEH	.610	ZBAZC	3	H
40	121	.39	78	PCT	11	P3	V33	-.91						V33	V33	.580	ZPUFZ	76	H
48	121	.32	129	PCT	9	P2	BW2	.63						TEC	TEH	.610	ZBAZC	3	H
48	121	.92	91	PCT	14	P3	BW2	.88						BW2	V33	.580	ZPUFZ	75	C
80	121	.23	101	PCT	10	P2	BW1	-.79						V33	TEH	.610	ZBAZC	30	H
80	121	.70	74	PCT	13	P3	BW1	-.83						QBH	V33	.580	ZPUFZ	77	H
134	121	.31	137	PCT	11	P2	V32	.63						V33	TEH	.610	ZBAZC	30	H
134	121	.75	82	PCT	13	P3	V32	.69						V32	V32	.580	ZPUFZ	77	H
43	122	.22	70	PCT	7	P2	BW1	-.87						TEC	TEH	.610	ZBAZC	3	H
43	122	.64	94	PCT	11	P3	BW1	-.87						QBH	V33	.580	ZPUFZ	76	H
47	122	.20	124	PCT	6	P2	BW2	-.81						TEC	TEH	.610	ZBAZC	3	H
47	122	.47	78	PCT	7	P3	BW2	-.78						QBH	V33	.580	ZPUFZ	75	C
49	122	.32	150	PCT	10	P2	BW1	-.82						TEC	TEH	.610	ZBAZC	3	H
49	122	.87	68	PCT	13	P3	BW1	-.82						QBH	V33	.580	ZPUFZ	76	H
56	123	.46	150	PCT	13	P2	BW1	-1.66						V33	TEH	.610	ZBAZC	31	H
56	123	1.02	86	PCT	17	P3	BW1	-1.66						QBH	V33	.580	ZPUFZ	76	H
29	124	1.30	115	PCT	31	P2	BW1	.90						TEC	TEH	.610	ZBAZC	4	H
29	124	2.29	81	PCT	32	P3	BW1	.90						QBH	V33	.580	ZPUFZ	76	H
29	124			TBP										TEC	TEC	.610	ZBAZC	1000	C
45	124	.30	123	PCT	11	P2	BW1	-.83						TEC	TEH	.610	ZBAZC	4	H
45	124	.34	106	PCT	10	P3	BW1	-.83						QBH	V33	.580	ZPUFZ	76	H
26	125	2.07	118	PCT	33	P2	BW1	.89						TEC	TEH	.610	ZBAZC	5	H
26	125	2.57	80	PCT	33	P3	BW1	.89						QBH	V33	.580	ZPUFZ	76	H
26	125			TBP										TEC	TEC	.610	ZBAZC	1000	C
28	125	.22	43	PCT	7	P2	BW1	-.98						TEC	TEH	.610	ZBAZC	3	H
28	125	.34	55	PCT	10	P2	BW1	.82						TEC	TEH	.610	ZBAZC	3	H
28	125	.51	79	PCT	9	P3	BW1	-.98						QBH	V33	.580	ZPUFZ	76	H
28	125	.71	78	PCT	13	P3	BW1	.82						QBH	V33	.580	ZPUFZ	76	H
28	125			TBP										TEC	TEC	.610	ZBAZC	1000	C
30	125	.20	133	PCT	6	P2	BW1	-.96						TEC	TEH	.610	ZBAZC	3	H
30	125	.28	102	PCT	3	P3	BW1	-.96						QBH	V33	.580	ZPUFZ	76	H
30	125			TBP										TEC	TEC	.610	ZBAZC	1000	C
32	125	.48	92	PCT	13	P2	BW1	.80						TEC	TEH	.610	ZBAZC	3	H
32	125	.81	90	PCT	14	P3	BW1	.80						QBH	V33	.580	ZPUFZ	76	H
32	125			TBP										TEC	TEC	.610	ZBAZC	1000	C
160	125	.81	83	PCT	20	P2	BW2	.90						V33	TEC	.610	ZBAZC	50	C
160	125	1.29	84	PCT	19	P3	BW2	.74						11C	V33	.580	ZPUFZ	77	C
23	126	.37	97	PCT	10	P2	BW2	-.80						TEC	TEH	.610	ZBAZC	5	H
23	126	.63	92	PCT	13	P3	BW2	-.70						QBH	V33	.580	ZPUFZ	75	C
23	126			TBP										TEC	TEC	.610	ZBAZC	1000	C
27	126	.26	133	PCT	8	P2	BW1	-1.06						TEC	TEH	.610	ZBAZC	5	H
27	126	.64	84	PCT	11	P3	BW1	-1.06						QBH	V33	.580	ZPUFZ	76	H
27	126			TBP										TEC	TEC	.610	ZBAZC	1000	C
29	126	.20	118	PCT	8	P2	BW1	-.96						TEC	TEH	.610	ZBAZC	3	H
29	126	.33	91	PCT	10	P3	BW1	-.96						QBH	V33	.580	ZPUFZ	76	H
29	126			TBP										TEC	TEC	.610	ZBAZC	1000	C
31	126	.60	134	PCT	16	P2	BW1	-.96						TEC	TEH	.610	ZBAZC	3	H
31	126	.23	123	PCT	8	P2	BW1	.87						TEC	TEH	.610	ZBAZC	3	H
31	126	1.01	90	PCT	17	P3	BW1	-.96						QBH	V33	.580	ZPUFZ	76	H
31	126	.63	77	PCT	11	P3	BW1	.87						QBH	V33	.580	ZPUFZ	76	H
33	126	.18	137	PCT	6	P2	BW1	-.93						TEC	TEH	.610	ZBAZC	3	H
33	126	.24	137	PCT	7	P2	BW1	.84						TEC	TEH	.610	ZBAZC	3	H
33	126	.34	76	PCT	7	P3	BW1	-.93						QBH	V33	.580	ZPUFZ	76	H
33	126	.48	96	PCT	9	P3	BW1	.84						QBH	V33	.580	ZPUFZ	76	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRWID	CEG	BEGT	ENST	PDIA	PTYPE	CAL	L
33	126	.70	77	PCT	13	P3	V33	.65						QBH	V33	.580	ZPUFZ	76	H
37	126	.47	137	PCT	13	P2	BW1	-1.07						TEC	TEH	.610	ZBAZC	3	H
37	126	.59	85	PCT	11	P3	BW1	-1.07						QBH	V33	.580	ZPUFZ	76	H
43	126	.23	66	PCT	8	P2	BW1	-.91						TEC	TEH	.610	ZBAZC	3	H
43	126	.33	98	PCT	6	P3	BW1	-.91						QBH	V33	.580	ZPUFZ	76	H
45	126	.23	128	PCT	7	P2	BW2	-.86						TEC	TEH	.610	ZBAZC	3	H
45	126	.52	63	PCT	8	P3	BW2	-.93						QBH	V33	.580	ZPUFZ	76	C
55	126	.52	118	PCT	14	P2	BW1	1.27						TEC	TEH	.610	ZBAZC	3	H
55	126	1.03	77	PCT	17	P3	BW1	1.27						QBH	V33	.580	ZPUFZ	76	H
22	127	.21	147	PCT	6	P2	BW1	.82						TEC	TEH	.610	ZBAZC	5	H
22	127	.60	97	PCT	16	P2	BW2	-.79						TEC	TEH	.610	ZBAZC	5	H
22	127	1.01	98	PCT	17	P3	BW2	-.54						QBH	V33	.580	ZPUFZ	76	C
22	127	.47	52	PCT	9	P3	BW1	.82						QBH	V33	.580	ZPUFZ	76	H
22	127			TBP										TEC	TEC	.610	ZBAZC	1000	C
102	127	.33	107	PCT	9	P2	V34	.82						V33	TEC	.610	ZBAZC	46	C
102	127	.75	93	PCT	15	P3	V34	.74						V34	V34	.580	ZPUFZ	74	C
23	128	.37	50	PCT	13	P2	BW1	-.85						TEC	TEH	.610	ZBAZC	6	H
23	128	.22	105	PCT	8	P2	V33	.65						TEC	TEH	.610	ZBAZC	6	H
23	128	.57	104	PCT	10	P3	BW1	-.85						QBH	V33	.580	ZPUFZ	76	H
23	128	.48	82	PCT	9	P3	V33	.65						QBH	V33	.580	ZPUFZ	76	H
23	128			TBP										TEC	TEC	.610	ZBAZC	1000	C
25	128	.34	131	PCT	12	P2	BW1	-.81						TEC	TEH	.610	ZBAZC	6	H
25	128	.76	81	PCT	13	P3	BW1	-.81						QBH	V33	.580	ZPUFZ	76	H
28	129	.43	80	PCT	12	P2	V33	-.79						TEC	TEH	.610	ZBAZC	3	H
28	129	.74	80	PCT	13	P3	V33	-.79						V33	V33	.580	ZPUFZ	76	H
62	129	.51	109	PCT	15	P2	V33	.76						V33	TEC	.610	ZBAZC	45	C
62	129	1.08	70	PCT	18	P3	V33	.76						V33	V33	.580	ZPUFZ	76	H
101	132	.69	115	PCT	18	P2	V31	.64						V33	TEH	.610	ZBAZC	27	H
101	132	.89	86	PCT	21	P2	V34	.97						V33	TEC	.610	ZBAZC	50	C
101	132	1.91	80	PCT	28	P3	V34	.83						V34	V34	.580	ZPUFZ	76	C
101	132	1.58	86	PCT	25	P3	V31	.83						V31	V31	.580	ZPUFZ	77	H
103	132	.32	78	MBN		6	07H	30.88						V33	TEH	.610	ZBAZC	27	H
47	134	.30	112	PCT	9	P2	BW1	.77						TEC	TEH	.610	ZBAZC	5	H
47	134	.83	85	PCT	14	P3	BW1	.77						QBH	V33	.580	ZPUFZ	76	H
101	134	.45	114	PCT	13	P2	V31	.84						V33	TEH	.610	ZBAZC	27	H
101	134	.85	95	PCT	20	P2	V35	.79						V33	TEC	.610	ZBAZC	49	C
101	134	.23	121	PCT	7	P2	BW2	.79						V33	TEC	.610	ZBAZC	49	C
101	134	.32	133	PCT	9	P2	11C	.69						V33	TEC	.610	ZBAZC	49	C
101	134	1.34	85	PCT	22	P3	V31	.75						V31	V31	.580	ZPUFZ	77	H
101	134	.84	83	PCT	13	P3	V35	.33						11C	V35	.580	ZPUFZ	77	C
101	134	1.74	84	PCT	24	P3	V35	.88						11C	V35	.580	ZPUFZ	77	C
101	134	.39	103	PCT	6	P3	BW2	.82						11C	V35	.580	ZPUFZ	77	C
101	134	.59	83	PCT	9	P3	11C	.79						11C	V35	.580	ZPUFZ	77	C
112	135	.34	81	PCT	9	P2	V34	.77						V33	TEC	.610	ZBAZC	48	C
112	135	.61	84	PCT	13	P3	V34	.79						V34	V34	.580	ZPUFZ	74	C
143	136	.42	1	NTE		2	TEH	23.05						V33	TEH	.610	ZBAZC	28	H
34	137	.37	83	PCT	11	P2	QBH	-.93						TEC	TEH	.610	ZBAZC	5	H
34	137	.64	89	PCT	12	P3	QBH	-.93						QBH	QBH	.600	ZPAHZ	80	H
142	137	.15	359	NTE		2	TEH	23.22						V33	TEH	.610	ZBAZC	26	H
25	138	.23	104	PCT	7	P2	V33	-.87						TEC	TEH	.610	ZBAZC	5	H
25	138	.62	74	PCT	11	P3	V33	-.87						V33	V33	.580	ZPUFZ	76	H
38	141	.37	14	NTE		2	TEC	23.06						TEC	TEH	.610	ZBAZC	5	H
1	142	.65	79	MBN		6	04H	29.03						QBH	TEH	.610	ZBAZC	28	H
39	142	.40	170	NTE		2	TEC	23.04						TEC	TEH	.610	ZBAZC	5	H
135	144	.33	64	MBN		6	04H	12.81						V33	TEH	.610	ZBAZC	23	H
143	146	.24	0	NTE		2	TEH	23.02						V33	TEH	.610	ZBAZC	23	H



ROW	COL	VOLTS	DEG	IND	PER	CHH	LOGN	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L		
40	147	.60	0	NTE		2	TEC	23.00								V83	TEC	.010	ZBAZC	53	C
1	148	.24	84	PCT	7	P2	03C	-1.00								08C	TEC	.010	ZBAZC	68	C
1	148	.33	89	PCT	6	P3	03C	-.89								03C	03C	.000	ZPAHZ	79	C
131	150	.30	132	PCT	9	P2	V83	-.71								V83	TEC	.010	ZBAZC	49	C
131	150	.79	78	PCT	14	P3	V83	-.52								V83	V83	.980	ZPUFZ	77	H
39	152	.20	53	PCT	6	P2	V83	.91								V83	TEC	.010	ZBAZC	60	C
39	152	.29	97	PCT	6	P3	V83	.91								V83	V83	.980	ZPUFZ	77	H
38	153	.30	58	PCT	9	P2	V83	1.15								V83	TEC	.010	ZBAZC	60	C
38	153	.90	77	PCT	9	P3	V83	1.15								V83	V83	.980	ZPUFZ	77	H
126	155	.33	353	NTE		2	TEH	23.00								V83	TEH	.010	ZBAZC	21	H
24	159	.38	58	MBM		6	08H	6.69								V83	TEH	.010	ZBAZC	8	H
129	164	.34	07	PCT	12	P2	V83	-.71								V83	TEH	.010	ZBAZC	18	H
129	164	.89	82	PCT	10	P3	V83	-.79								V83	V83	.980	ZPUFZ	77	H
19	166	.37	07	MBM		6	01H	33.39								V83	TEH	.010	ZBAZC	8	H
82	167	1.23	112	MBM		6	03H	18.64								V83	TEH	.010	ZBAZC	17	H
20	171	.37	73	MBM		6	04H	29.75								V83	TEH	.010	ZBAZC	8	H
34	171	.78	2	NTE		2	TEH	22.99								V83	TEH	.010	ZBAZC	8	H
77	172	1.99	106	NTE		2	TEC	23.09								V83	TEC	.010	ZBAZC	56	C
33	178	.29	113	PCT	8	P2	V83	.73								V83	TEC	.010	ZBAZC	62	C
113	178	.30	109	PCT	9	P2	V83	.75								V83	TEC	.010	ZBAZC	55	C
113	178	.72	87	PCT	13	P3	V83	.89								V83	V83	.980	ZPUFZ	77	H
21	180	.13	166	NTE		2	TEH	23.09								V83	TEH	.010	ZBAZC	7	H
81	182	.23	74	MBM		6	08C	18.84								V83	TEC	.010	ZBAZC	55	C
46	185	48.02	185	NTE		2	TEH	22.24								V83	TEH	.010	ZBAZC	16	H
23	186	.68	5	NTE		2	TEH	23.09								V83	TEH	.010	ZBAZC	8	H
95	186	1.03	174	NTE		2	TEC	23.00								V83	TEC	.010	ZBAZC	57	C
21	202	.33	73	MBM		6	08C	10.50								V83	TEC	.010	ZBAZC	61	C

# **APPENDIX C**

## **STEAM GENERATOR 22**

### **SUMMARY DATA SHEETS**

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
30	3	.41	123	PCT	10	P2	06H	.79						VS3	TEH	.610	ZBAZC	53	H
30	3	.63	118	PCT	8	P3	06H	.79						06H	06H	.600	ZPAHZ	83	H
51	16	.29	51	MBM		6	05H	6.11						VS3	TEH	.610	ZBAZC	49	H
10	21	51.06	3	NTE		2	TSH	-.10						VS3	TEH	.610	ZBAZC	56	H
84	29	.42	122	PCT	11	P2	VS3	.73						VS3	TEC	.610	ZBAZC	27	C
84	29	.49	129	PCT	12	P2	VS2	1.00						VS3	TEH	.610	ZBAZC	47	H
84	29	.66	107	PCT	8	P3	VS2	1.00						VS2	VS2	.580	ZPUFZ	82	H
84	29	.84	87	PCT	14	P3	VS3	.79						VS3	VS3	.560	ZPUFZ	82	C
35	30	.58	100	PCT	9	P3	08C	-.84						08C	08C	.600	ZPAHZ	79	C
84	33	.29	126	PCT	8	P2	BM2	-.61						VS3	TEC	.610	ZBAZC	31	C
84	33	.59	102	PCT	10	P3	BM2	-.70						08C	VS4	.580	ZPUFZ	77	C
108	33	.29	79	PCT	8	P2	10C	.82						VS3	TEC	.610	ZBAZC	36	C
108	33	.47	78	PCT	8	P3	10C	.78						10C	10C	.600	ZPAHZ	79	C
77	38	.32	128	PCT	8	P2	09C	.69						VS3	TEC	.610	ZBAZC	32	C
77	38	.58	80	PCT	9	P3	09C	.60						09C	09C	.600	ZPAHZ	79	C
79	38	.26	111	PCT	9	P2	VS2	-.94						VS3	TEH	.610	ZBAZC	48	H
79	38	.45	80	PCT	6	P3	VS2	-.94						VS2	VS2	.580	ZPUFZ	82	H
89	38	.32	93	PCT	8	P2	BM2	-.69						VS3	TEC	.610	ZBAZC	32	C
89	38	.45	61	PCT	7	P3	BM2	-.62						08C	VS4	.580	ZPUFZ	77	C
90	41	.30	86	PCT	8	P2	10H	-1.37						VS3	TEH	.610	ZBAZC	43	H
90	41	.61	111	PCT	7	P3	10H	-1.37						10H	10H	.600	ZPAHZ	83	H
123	44	.44	130	PCT	12	P2	VS3	.68						VS3	TEC	.610	ZBAZC	36	C
123	44	.39	140	PCT	10	P2	VS5	.63						VS3	TEC	.610	ZBAZC	36	C
123	44	.78	91	PCT	12	P3	VS5	.58						VS5	VS5	.580	ZPUFZ	77	C
123	44	1.12	87	PCT	17	P3	VS3	.58						VS3	VS3	.580	ZPUFZ	82	C
4	45	.42	113	PCT	6	P3	BM2	.69						08H	08C	.540	ZPUPH	68	H
137	48	.71	108	SVI		P3	VS1	4.53						VS1	VS2	.580	ZPUFZ	82	H
132	53	.59	137	PCT	11	P2	11C	-1.20						VS3	TEC	.610	ZBAZC	36	C
132	53	.58	71	PCT	9	P3	11C	-1.02						11C	11C	.600	ZPAHZ	79	C
132	53	.20	116	PCT	3	P3	11C	-1.01						11C	11C	.600	ZPAHZ	79	C
113	56	.59	88	PCT	11	P2	VS3	-.78						VS3	TEC	.610	ZBAZC	38	C
113	56	.90	84	PCT	15	P3	VS3	-.72						VS3	VS3	.580	ZPUFZ	82	C
114	57	.35	109	PCT	10	P2	VS3	.82						VS3	TEC	.610	ZBAZC	38	C
114	57	.72	77	PCT	12	P3	VS3	.68						VS3	VS3	.580	ZPUFZ	82	C
118	57	.41	93	PCT	11	P2	VS2	.77						VS3	TEH	.610	ZBAZC	42	H
118	57	1.00	90	PCT	13	P3	VS2	.77						VS2	VS2	.580	ZPUFZ	82	H
126	57	.30	131	PCT	9	P2	VS3	-.40						VS3	TEC	.610	ZBAZC	38	C
126	57	.95	69	PCT	9	P3	VS3	-.58						VS3	VS3	.580	ZPUFZ	82	C
129	60	.59	113	PCT	15	P2	VS3	.63						VS3	TEC	.610	ZBAZC	38	C
129	60	1.29	80	PCT	20	P3	VS3	.57						VS3	VS3	.580	ZPUFZ	82	C
152	61	.25	112	PCT	7	P2	VS3	.63						VS3	TEC	.610	ZBAZC	38	C
152	61	.52	93	PCT	9	P3	VS3	.67						VS3	VS3	.580	ZPUFZ	82	C
47	64	.33	138	PCT	8	P2	BM1	-1.01						TEH	TEC	.610	ZBAZC	4	C
47	64	.08	103	PCT	9	P3	BM1	-1.01						08H	VS3	.580	ZPUFZ	82	H
24	65	.73	116	PCT	16	P2	VS3	.78						TEH	TEC	.610	ZBAZC	4	C
24	65	1.11	88	PCT	16	P3	VS3	.94						VS3	VS3	.580	ZPUFZ	77	H
30	65	.77	149	PCT	17	P2	VS3	.82						TEH	TEC	.610	ZBAZC	4	C
30	65	.55	92	PCT	9	P3	VS3	.82						VS3	VS3	.580	ZPUFZ	77	H
153	66	.59	116	PCT	14	P2	BM2	.80						VS3	TEC	.610	ZBAZC	39	C
153	66	1.23	90	PCT	19	P3	BM2	.80						11C	VS3	.580	ZPUFZ	76	C
159	66	.66	64	PCT	15	P2	BM2	.75						VS3	TEC	.610	ZBAZC	39	C
159	66	1.34	92	PCT	20	P3	BM2	.75						11C	VS3	.580	ZPUFZ	76	C
18	67	51.07	181	NTE		2	TEC	22.60						TEH	TEC	.610	ZBAZC	3	C

ROW	COL	VOLTS	DEG	INH	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
132	67	.27	102	PCT	7	P2	VG5	.73						V83	TEC	.610	ZBAZC	39	C
132	67	.81	92	PCT	13	P3	VG5	.73						V85	V85	.360	ZPUFZ	76	C
158	67	.65	115	PCT	15	P2	BM2	-.75						V83	TEC	.610	ZBAZC	39	C
158	67	1.42	93	PCT	21	P3	BM2	-.75						110	V85	.360	ZPUFZ	76	C
160	67	.42	126	PCT	10	P2	BM2	-.60						V83	TEC	.610	ZBAZC	39	C
160	67	.91	86	PCT	14	P3	BM2	-.60						110	V85	.360	ZPUFZ	76	C
159	68	.47	60	PCT	13	P2	BM2	.77						V83	TEC	.610	ZBAZC	40	C
159	68	1.00	99	PCT	16	P3	BM2	.77						110	V85	.360	ZPUFZ	76	C
161	68	.20	45	PCT	6	P2	BM2	.72						V83	TEC	.610	ZBAZC	40	C
161	68	.59	104	PCT	10	P3	BM2	.72						110	V85	.360	ZPUFZ	76	C
150	69	.39	80	PCT	10	P2	VG1	.84						V83	TEH	.610	ZBAZC	39	H
150	69	.87	97	PCT	11	P3	VG1	.81						V81	V81	.360	ZPUFZ	82	H
8	71	11.82	197	NTE		6	TEC	23.03						V83	TEC	.610	ZBAZC	24	C
128	71	17.14	182	NTE		2	TEC	22.84						V83	TEC	.610	ZBAZC	41	C
134	71	1.25	178	NTE		2	TEC	21.65						V83	TEC	.610	ZBAZC	41	C
161	72	.47	136	PCT	13	P2	VG3	.60						V83	TEC	.610	ZBAZC	40	C
161	72	1.24	84	PCT	19	P3	VG3	.84						V83	V83	.360	ZPUFZ	82	C
42	73	53.78	179	NTE		2	TSH	.00						TEH	TEC	.610	ZBAZC	6	C
160	73	.30	99	PCT	8	P2	VG1	.82						V83	TEH	.610	ZBAZC	39	H
160	73	.86	84	PCT	11	P3	VG1	.82						V81	V81	.360	ZPUFZ	82	H
164	73	.55	29	PCT	13	P2	BM2	.55						V83	TEC	.610	ZBAZC	41	C
164	73	1.33	92	PCT	20	P3	BM2	.55						110	V85	.360	ZPUFZ	76	C
163	74	.79	133	PCT	17	P2	BM2	-.70						V83	TEC	.610	ZBAZC	41	C
163	74	1.39	89	PCT	21	P3	BM2	-.76						110	V85	.360	ZPUFZ	76	C
14	75	.65	102	PCT	17	P2	BM2	-1.00						V83	TEC	.610	ZBAZC	15	C
14	75	1.22	93	PCT	19	P3	BM2	-.83						080	V83	.360	ZPUFZ	75	C
14	75			TBP										TEC	TEC	.610	ZBAZC	1000	C
24	75	.37	44	MBM		6	GGH	29.68						TEH	TEC	.610	ZBAZC	5	C
19	76	.33	91	PCT	10	P2	BM2	.87						TEH	TEC	.610	ZBAZC	5	C
19	76	.56	84	PCT	10	P3	BM2	.75						080	V83	.360	ZPUFZ	75	C
19	76			TBP										TEC	TEC	.610	ZBAZC	1000	C
23	76	.38	113	PCT	10	P2	BM2	.93						TEH	TEC	.610	ZBAZC	6	C
23	76	.64	101	PCT	11	P3	BM2	.83						080	V83	.360	ZPUFZ	75	C
23	76			TBP										TEC	TEC	.610	ZBAZC	1000	C
161	76	.70	105	PCT	16	P2	VG1	-.87						V83	TEH	.610	ZBAZC	39	H
161	76	.47	103	PCT	11	P2	VG1	.62						V83	TEH	.610	ZBAZC	39	H
161	76	1.55	80	PCT	19	P3	VG1	-.87						V81	V81	.360	ZPUFZ	82	H
161	76	.83	92	PCT	11	P3	VG1	.62						V81	V81	.360	ZPUFZ	82	H
22	77	1.02	89	PCT	23	P2	BM1	-.90						TEH	TEC	.610	ZBAZC	5	C
22	77	1.38	98	PCT	19	P3	BM1	-.83						080	V83	.360	ZPUFZ	77	H
22	77			TBP										TEC	TEC	.610	ZBAZC	1000	C
84	77	.35	88	PCT	9	P2	VG2	.77						V83	TEH	.610	ZBAZC	37	H
84	77	.84	87	PCT	13	P3	VG2	.94						V82	V82	.360	ZPUFZ	77	H
132	77	.46	103	PCT	12	P2	VG3	.57						V83	TEC	.610	ZBAZC	40	C
132	77	.91	87	PCT	15	P3	VG3	.79						V83	V83	.360	ZPUFZ	82	C
154	77	.26	104	PCT	6	P2	VG4	-.88						V83	TEC	.610	ZBAZC	40	C
154	77	.38	72	PCT	6	P3	VG4	-.88						V84	V84	.360	ZPUFZ	76	C
29	78	.45	125	PCT	13	P2	BM2	1.00						TEH	TEC	.610	ZBAZC	5	C
29	78	1.31	91	PCT	20	P3	BM2	.70						080	V83	.360	ZPUFZ	74	C
29	78			TBP										TEC	TEC	.610	ZBAZC	1000	C
91	78	.45	83	PCT	12	P2	VG3	-.91						V83	TEC	.610	ZBAZC	21	C
91	78	.88	85	PCT	13	P3	VG3	-.90						V83	V83	.360	ZPUFZ	77	H
28	79	.62	113	PCT	10	P2	BM1	1.00						TEH	TEC	.610	ZBAZC	5	C
28	79	.91	98	PCT	14	P3	BM1	.78						080	V83	.360	ZPUFZ	77	H
28	79	.36	104	PCT	6	P3	VG3	.99						080	V83	.360	ZPUFZ	77	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
28	79						TBP							TEC	TEC	.610	ZBAZC	1000	C
30	79	1.08	101	PCT	24	P2	BM1	.84						TEH	TEC	.610	ZBAZC	5	C
30	79	1.00	98	PCT	15	P3	BM1	.71					08H	V83	.580	ZPUFZ	77	H	
30	79						TBP						TEC	TEC	.610	ZBAZC	1000	C	
32	79	.35	74	PCT	10	P2	BM1	.95					TEH	TEC	.610	ZBAZC	5	C	
32	79	.58	90	PCT	9	P3	BM1	.85					08H	V83	.580	ZPUFZ	77	H	
32	79						TBP						TEC	TEC	.610	ZBAZC	1000	C	
34	79	.34	94	PCT	10	P2	BM1	.88					TEH	TEC	.610	ZBAZC	5	C	
34	79	.56	107	PCT	9	P3	BM1	.97					08H	V83	.580	ZPUFZ	77	H	
36	79	.39	122	PCT	11	P2	BM1	.91					TEH	TEC	.610	ZBAZC	5	C	
36	79	.84	88	PCT	13	P3	BM1	.83					08H	V83	.580	ZPUFZ	77	H	
32	79	.20	144	PCT	8	P2	BM1	.87					TEH	TEC	.610	ZBAZC	5	C	
32	79	.54	80	PCT	8	P3	BM1	.88					09H	V83	.580	ZPUFZ	77	H	
31	80	.54	126	PCT	13	P2	BM1	-.93					TEH	TEC	.610	ZBAZC	6	C	
31	80	.77	92	PCT	12	P3	BM1	-.98					08H	V83	.580	ZPUFZ	77	H	
31	80						TBP						TEC	TEC	.610	ZBAZC	1000	C	
31	80	.44	130	PCT	11	P2	BM1	-.93					TEH	TEC	.610	ZBAZC	6	C	
31	80	.79	100	PCT	12	P3	BM1	-.79					09H	V83	.580	ZPUFZ	77	H	
117	80	.25	67	PCT	7	P2	BM2	-.85					V83	TEC	.610	ZBAZC	40	C	
117	80	.45	108	PCT	6	P3	BM2	-.76					10C	V83	.580	ZPUFZ	76	C	
103	80	.39	147	PCT	10	P2	BM2	-.88					V83	TEC	.610	ZBAZC	42	C	
103	80	1.00	87	PCT	16	P3	BM2	-.88					11C	V83	.580	ZPUFZ	76	C	
107	80	.40	64	PCT	10	P2	BM2	.85					V83	TEC	.610	ZBAZC	42	C	
107	80	.78	92	PCT	13	P3	BM2	.85					11C	V83	.580	ZPUFZ	76	C	
30	81	1.35	100	PCT	26	P2	BM1	-.91					TEH	TEC	.610	ZBAZC	6	C	
30	81	1.22	120	PCT	24	P2	BM2	-.98					TEH	TEC	.610	ZBAZC	6	C	
30	81	1.79	88	PCT	25	P3	BM2	-.63					08C	V83	.580	ZPUFZ	74	C	
30	81	1.20	98	PCT	17	P3	BM1	-.75					08H	V83	.580	ZPUFZ	77	H	
30	81	.63	83	PCT	10	P3	BM1	.97					08H	V83	.580	ZPUFZ	77	H	
30	81						TBP						TEC	TEC	.610	ZBAZC	1000	C	
90	81	.29	76	PCT	8	P2	V83	-.94					V83	TEC	.610	ZBAZC	21	C	
90	81	1.08	88	PCT	16	P3	V83	-.88					V83	V83	.580	ZPUFZ	77	H	
102	81	.34	87	PCT	9	P2	BM2	-.92					V83	TEC	.610	ZBAZC	42	C	
102	81	.78	99	PCT	13	P3	BM2	-.92					11C	V83	.580	ZPUFZ	76	C	
168	81	1.80	102	PCT	31	P2	BM2	-.87					V83	TEC	.610	ZBAZC	42	C	
168	81	2.48	85	PCT	32	P3	BM2	-.85					11C	V83	.580	ZPUFZ	76	C	
168	81						TBP						TEH	TEH	.610	ZBAZC	1000	C	
53	82	.43	119	PCT	12	P2	BM1	-1.17					TEH	TEC	.610	ZBAZC	5	C	
53	82	.78	110	PCT	12	P3	BM1	-.83					09H	V83	.580	ZPUFZ	77	H	
107	82	.53	131	PCT	13	P2	BM2	-.80					V83	TEC	.610	ZBAZC	43	C	
107	82	.99	87	PCT	15	P3	BM2	-.80					11C	V83	.580	ZPUFZ	76	C	
34	83	.58	89	PCT	15	P2	BM2	.93					TEH	TEC	.610	ZBAZC	5	C	
34	83	.61	83	PCT	16	P3	BM2	.78					08C	V83	.580	ZPUFZ	74	C	
34	83						TBP						TEC	TEC	.610	ZBAZC	1000	C	
38	83	.60	60	PCT	10	P2	V83	-.88					TEH	TEC	.610	ZBAZC	5	C	
38	83	.71	80	PCT	11	P3	V83	-.77					V83	V83	.580	ZPUFZ	77	H	
38	83	.44	90	PCT	7	P3	V83	.81					V83	V83	.580	ZPUFZ	77	H	
46	83	.20	119	PCT	8	P2	BM2	1.02					TEH	TEC	.610	ZBAZC	5	C	
46	83	.66	95	PCT	11	P3	BM2	.93					08C	V83	.580	ZPUFZ	74	C	
168	83	.50	145	PCT	14	P2	BM2	-.95					V83	TEC	.610	ZBAZC	43	C	
168	83	1.11	94	PCT	17	P3	BM2	-.95					11C	V83	.580	ZPUFZ	76	C	
37	84	.39	84	PCT	11	P2	BM2	-.90					TEH	TEC	.610	ZBAZC	5	C	
37	84	.78	66	PCT	13	P3	BM2	-.78					08C	V83	.580	ZPUFZ	74	C	
37	84						TBP						TEC	TEC	.610	ZBAZC	1000	C	
37	84	.92	100	PCT	22	P2	BM1	-.92					TEH	TEC	.610	ZBAZC	5	C	
37	84	1.17	92	PCT	17	P3	BM1	-.91					08H	V83	.580	ZPUFZ	77	H	
37	84						TBP						TEC	TEC	.610	ZBAZC	1000	C	

ROW	COL	VOLTS	DEG	INH	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
43	84	.37	147	PCT	10	P2	VS3	.77						TEH	TEC	.610	ZBAZC	6	C
43	84	.55	88	PCT	9	P3	VS3	.83						VS3	VS3	.580	ZPUFZ	77	H
45	84	.30	73	PCT	8	P2	BM1	-.90						TEH	TEC	.610	ZBAZC	6	C
45	84	.70	103	PCT	11	P3	BM1	-.73						OSH	VS3	.580	ZPUFZ	77	H
47	84	.30	150	PCT	8	P2	BM1	-.93						TEH	TEC	.610	ZBAZC	6	C
47	84	.51	108	PCT	8	P3	BM1	-.93						OSH	VS3	.580	ZPUFZ	80	H
51	84	.45	150	PCT	11	P2	BM2	-.69						TEH	TEC	.610	ZBAZC	6	C
51	84	.59	93	PCT	10	P3	BM2	-.64						OSC	VS3	.580	ZPUFZ	74	C
167	84	.29	108	PCT	8	P2	BM2	.90						VS3	TEC	.610	ZBAZC	42	C
167	84	.62	100	PCT	10	P3	BM2	.90						11C	VS3	.580	ZPUFZ	76	C
38	85	.61	120	PCT	15	P2	BM1	-.95						TEH	TEC	.610	ZBAZC	6	C
38	85	.89	123	PCT	19	P2	VS3	.91						TEH	TEC	.610	ZBAZC	6	C
38	85	1.20	104	PCT	24	P2	BM2	-.75						TEH	TEC	.610	ZBAZC	6	C
38	85	1.41	75	PCT	21	P3	VS3	.73						OSC	VS3	.580	ZPUFZ	74	C
38	85	1.70	80	PCT	25	P3	BM2	-.70						OSC	VS3	.580	ZPUFZ	74	C
38	85	1.21	93	PCT	17	P3	BM1	-.85						OSH	VS3	.580	ZPUFZ	77	H
38	85			TBP										TEC	TEC	.610	ZBAZC	1000	C
44	85	.43	65	PCT	11	P2	BM1	-1.09						TEH	TEC	.610	ZBAZC	6	C
44	85	.89	104	PCT	13	P3	BM1	-.95						OSH	VS3	.580	ZPUFZ	77	H
47	86	.48	98	PCT	13	P2	BM1	.68						TEH	TEC	.610	ZBAZC	5	C
47	86	.59	118	PCT	16	P2	VS3	-.88						TEH	TEC	.610	ZBAZC	5	C
47	86	.91	89	PCT	12	P3	BM1	.68						OSH	VS3	.580	ZPUFZ	81	H
47	86	1.01	88	PCT	13	P3	VS3	-.88						OSH	VS3	.580	ZPUFZ	81	H
48	87	.42	153	PCT	12	P2	BM1	.90						TEH	TEC	.610	ZBAZC	5	C
48	87	.95	103	PCT	14	P3	BM1	.62						OSH	VS3	.580	ZPUFZ	77	H
43	88	.64	113	PCT	15	P2	BM2	1.02						TEH	TEC	.610	ZBAZC	8	C
43	88	.87	80	PCT	14	P3	BM2	.78						OSC	VS3	.580	ZPUFZ	74	C
43	88			TBP										TEC	TEC	.610	ZBAZC	1000	C
45	88	.29	98	PCT	7	P2	BM2	1.09						TEH	TEC	.610	ZBAZC	8	C
45	88	.49	95	PCT	8	P3	BM2	.78						OSC	VS3	.580	ZPUFZ	74	C
45	88			TBP										TEC	TEC	.610	ZBAZC	1000	C
163	88	.21	38	PCT	7	P2	BM2	-.97						VS3	TEC	.610	ZBAZC	60	C
163	88	.37	73	PCT	6	P3	BM2	-.97						11C	VS3	.580	ZPUFZ	76	C
169	88	.69	133	PCT	18	P2	BM2	-.97						VS3	TEC	.610	ZBAZC	60	C
169	88	1.22	92	PCT	16	P3	BM2	-.97						11C	VS3	.580	ZPUFZ	76	C
40	89	.36	123	PCT	9	P2	BM2	-.75						TEH	TEC	.610	ZBAZC	8	C
40	89	.52	61	PCT	9	P3	BM2	-.77						OSC	VS3	.580	ZPUFZ	74	C
40	89			TBP										TEC	TEC	.610	ZBAZC	1000	C
42	89	1.22	119	PCT	23	P2	BM1	-.68						TEH	TEC	.610	ZBAZC	8	C
42	89	1.75	95	PCT	23	P3	BM1	-.75						OSH	VS3	.580	ZPUFZ	77	H
42	89			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	89	1.51	121	PCT	24	P2	BM1	1.11						TEH	TEC	.610	ZBAZC	8	C
40	89	1.96	94	PCT	26	P3	BM1	.92						OSH	VS3	.580	ZPUFZ	77	H
40	89			TBP										TEC	TEC	.610	ZBAZC	1000	C
50	89	.69	112	PCT	16	P2	BM1	-.94						TEH	TEC	.610	ZBAZC	8	C
50	89	1.12	104	PCT	16	P3	BM1	-.70						OSH	VS3	.580	ZPUFZ	77	H
132	89	.64	113	PCT	14	P2	VS3	-.70						VS3	TEH	.610	ZBAZC	35	H
132	89	.38	75	PCT	10	P2	VS4	-1.00						VS3	TEC	.610	ZBAZC	42	C
132	89	.89	89	PCT	14	P3	VS4	-1.00						VS4	VS4	.580	ZPUFZ	76	C
132	89	1.05	78	PCT	24	P3	VS3	-.72						VS3	VS3	.580	ZPUFZ	82	C
162	89	.27	122	PCT	7	P2	VS2	.62						VS3	TEH	.610	ZBAZC	35	H
162	89	.63	94	PCT	8	P3	VS2	.62						VS2	VS2	.580	ZPUFZ	82	H
168	89	.84	142	PCT	20	P2	BM2	.62						VS3	TEC	.610	ZBAZC	60	C
168	89	1.01	93	PCT	16	P3	BM2	.62						11C	VS3	.580	ZPUFZ	76	C
45	90	1.41	89	PCT	28	P2	BM1	-.89						TEH	TEC	.610	ZBAZC	7	C
45	90	1.77	95	PCT	24	P3	BM1	-.89						OSH	VS3	.580	ZPUFZ	77	H
45	90			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	90	1.01	97	PCT	23	P2	BM1	-.97						TEH	TEC	.610	ZBAZC	7	C
47	90	.97	93	PCT	13	P3	BM1	-.97						OSH	VS3	.580	ZPUFZ	81	H

ROW	COL	VOLTS	DEG	INH	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
47	90			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	90	.04	114	PCT	17	P2	BM1	.82						TEH	TEC	.610	ZBAZC	7	C
49	90	.87	96	PCT	13	P3	BM1	.79						09H	V83	.580	ZPUFZ	77	H
53	90	.36	88	PCT	10	P2	BM2	1.76						TEH	TEC	.610	ZBAZC	7	C
55	90	.78	95	PCT	13	P3	BM2	1.45						09C	V83	.580	ZPUFZ	74	C
169	90	.41	74	PCT	12	P2	BM2	.83						V83	TEC	.610	ZBAZC	60	C
169	90	.82	104	PCT	13	P3	BM2	.83						11C	V83	.580	ZPUFZ	76	C
44	91	1.86	103	PCT	33	P2	BM1	-1.01						TEH	TEC	.610	ZBAZC	7	C
44	91	1.32	90	PCT	27	P2	BM1	1.08						TEH	TEC	.610	ZBAZC	7	C
44	91	2.21	94	PCT	26	P3	BM1	-.87						08H	V83	.580	ZPUFZ	77	H
44	91	1.09	85	PCT	23	P3	BM1	.84						08H	V83	.580	ZPUFZ	77	H
44	91			TBP										TEC	TEC	.610	ZBAZC	1000	C
46	91	1.13	112	PCT	25	P2	BM1	-.99						TEH	TEC	.610	ZBAZC	7	C
46	91	1.01	90	PCT	22	P3	BM1	-1.00						08H	V83	.580	ZPUFZ	77	H
46	91			TBP										TEC	TEC	.610	ZBAZC	1000	C
45	92	2.31	100	PCT	34	P2	BM1	-1.02						TEH	TEC	.610	ZBAZC	8	C
45	92	2.06	96	PCT	27	P3	BM1	-.90						08H	V83	.580	ZPUFZ	77	H
45	92			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	92	1.75	100	PCT	29	P2	BM1	-.93						TEH	TEC	.610	ZBAZC	8	C
47	92	.25	113	PCT	6	P2	BM2	1.02						TEH	TEC	.610	ZBAZC	8	C
47	92	.91	87	PCT	15	P3	BM2	.75						08C	V83	.580	ZPUFZ	74	C
47	92	1.70	90	PCT	21	P3	BM1	-.93						08H	V83	.580	ZPUFZ	81	H
47	92			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	92	.92	100	PCT	12	P2	BM1	.83						TEH	TEC	.610	ZBAZC	8	C
49	92	.38	121	PCT	9	P2	BM2	-.94						TEH	TEC	.610	ZBAZC	8	C
49	92	.86	92	PCT	14	P3	BM2	-.72						09C	V83	.580	ZPUFZ	74	C
49	92	.80	91	PCT	12	P3	BM1	.93						09H	V83	.580	ZPUFZ	77	H
49	92			TBP										TEC	TEC	.610	ZBAZC	1000	C
51	92	.36	143	PCT	9	P2	BM1	.89						TEH	TEC	.610	ZBAZC	8	C
51	92	.73	98	PCT	11	P3	BM1	.95						09H	V83	.580	ZPUFZ	77	H
51	92	.36	88	PCT	9	P3	V83	.70						09H	V83	.580	ZPUFZ	77	H
73	92	.48	84	PCT	13	P2	V84	1.00						V83	TEC	.610	ZBAZC	31	C
73	92	.83	85	PCT	14	P3	V84	1.03						V84	V84	.580	ZPUFZ	75	C
119	92	.66	37	PCT	18	P2	V83	-.72						V83	TEH	.610	ZBAZC	34	H
119	92	1.19	95	PCT	18	P3	V83	-.72						V83	V83	.580	ZPUFZ	79	H
137	92	.27	80	PCT	9	P2	V81	-.85						V83	TEH	.610	ZBAZC	34	H
137	92	.46	81	PCT	6	P3	V81	-.85						V81	V81	.580	ZPUFZ	82	H
44	93	5.26	98	PCT	48	P2	BM1	.79						TEH	TEC	.610	ZBAZC	8	C
44	93	5.22	73	PCT	50	P3	BM1	.84						08H	V83	.580	ZPUFZ	77	H
44	93	.49	84	PCT	8	P3	V83	-.82						08H	V83	.580	ZPUFZ	77	H
44	93			TBP										TEC	TEC	.610	ZBAZC	1000	C
46	93	.37	141	PCT	9	P2	BM1	.93						TEH	TEC	.610	ZBAZC	8	C
46	93	.35	114	PCT	6	P3	BM1	.97						08H	V83	.580	ZPUFZ	77	H
46	93			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	93	.72	98	PCT	16	P2	BM1	-.73						TEH	TEC	.610	ZBAZC	8	C
48	93	.45	108	PCT	11	P2	BM1	1.43						TEH	TEC	.610	ZBAZC	8	C
48	93	1.18	95	PCT	17	P3	BM1	-.88						BM1	V83	.580	ZPUFZ	77	H
48	93	.56	83	PCT	9	P3	BM1	.84						BM1	V83	.580	ZPUFZ	77	H
48	93			TBP										TEC	TEC	.610	ZBAZC	1000	C
50	93	.65	121	PCT	15	P2	BM1	.85						TEH	TEC	.610	ZBAZC	8	C
50	93	.38	140	PCT	9	P2	BM2	-.92						TEH	TEC	.610	ZBAZC	8	C
50	93	.90	97	PCT	14	P3	BM2	-.73						09C	V83	.580	ZPUFZ	74	C
50	93	1.13	93	PCT	16	P3	BM1	.92						09H	V83	.580	ZPUFZ	77	H
50	93			TBP										TEC	TEC	.610	ZBAZC	1000	C
80	93	.88	124	PCT	18	P2	V84	-.85						V83	TEC	.610	ZBAZC	32	C
80	93	1.48	89	PCT	22	P3	V84	-.85						V84	V84	.580	ZPUFZ	75	C
152	93	.46	83	PCT	13	P2	V82	.67						V83	TEH	.610	ZBAZC	32	H
152	93	.79	90	PCT	10	P3	V82	.67						V82	V82	.580	ZPUFZ	82	H
43	94	2.00	97	PCT	34	P2	BM1	-1.08						TEH	TEC	.610	ZBAZC	7	C
43	94	2.16	88	PCT	28	P3	BM1	-.97						08H	V83	.580	ZPUFZ	77	H
43	94			TBP										TEC	TEC	.610	ZBAZC	1000	C

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
47	94	1.29	112	PCT	27	P2	BM1	-.92					TEH	TEC	.610	ZBAZC	7	C	
47	94	1.04	93	PCT	20	P3	BM1	-.94					09H	V83	.580	ZPUFZ	81	H	
47	94			TBP									TEC	TEC	.610	ZBAZC	1000	C	
49	94	1.20	109	PCT	20	P2	BM1	.83					TEH	TEC	.610	ZBAZC	7	C	
49	94	.08	109	PCT	10	P3	BM1	.42					09H	V83	.580	ZPUFZ	77	H	
49	94	1.41	98	PCT	20	P3	BM1	-.93					09H	V83	.580	ZPUFZ	77	H	
49	94			TBP									TEC	TEC	.610	ZBAZC	1000	C	
79	94	.27	72	PCT	9	P2	VS2	.47					V83	TEH	.610	ZBAZC	36	H	
79	94	.78	83	PCT	12	P3	VS2	.52					V82	V82	.580	ZPUFZ	77	H	
169	94	.38	120	PCT	11	P2	BM2	.63					V83	TEC	.610	ZBAZC	60	C	
169	94	.71	93	PCT	12	P3	BM2	.83					11C	V83	.580	ZPUFZ	70	C	
50	95	.35	99	PCT	10	P2	BM1	.80					TEH	TEC	.610	ZBAZC	7	C	
50	95	.74	79	PCT	11	P3	BM1	.83					09H	V83	.580	ZPUFZ	77	H	
50	95			TBP									TEC	TEC	.610	ZBAZC	1000	C	
85	95	.07	115	PCT	17	P2	VS3	-.50					V83	TEC	.610	ZBAZC	31	C	
85	95	.45	112	PCT	12	P2	VS4	-.68					V83	TEC	.610	ZBAZC	31	C	
85	95	.97	84	PCT	10	P3	VS4	-.87					V84	V84	.580	ZPUFZ	75	C	
85	95	.91	88	PCT	14	P3	VS3	.63					V83	V83	.580	ZPUFZ	77	H	
46	97	.53	112	PCT	13	P2	VS3	1.09					TEH	TEC	.610	ZBAZC	8	C	
46	97	.80	92	PCT	13	P3	VS3	1.13					V83	V83	.580	ZPUFZ	77	H	
48	97	.59	88	PCT	14	P2	VS3	.82					TEH	TEC	.610	ZBAZC	8	C	
48	97	1.18	90	PCT	17	P3	VS3	.98					V83	V83	.580	ZPUFZ	77	H	
170	97	.31	128	PCT	9	P2	BM2	-.92					V83	TEC	.610	ZBAZC	60	C	
170	97	.54	94	PCT	9	P3	BM2	-.83					11C	V83	.580	ZPUFZ	70	C	
169	98	.39	147	PCT	11	P2	BM2	.92					V83	TEC	.610	ZBAZC	60	C	
169	98	.73	90	PCT	12	P3	BM2	.88					11C	V83	.580	ZPUFZ	70	C	
171	98	.25	148	PCT	8	P2	BM2	-.87					V83	TEC	.610	ZBAZC	60	C	
171	98	.52	70	PCT	8	P3	BM2	-.77					11C	V83	.580	ZPUFZ	77	C	
47	100	.37	127	PCT	9	P2	BM1	-.88					TEH	TEC	.610	ZBAZC	8	C	
47	100	.04	115	PCT	10	P3	BM1	-.88					09H	V83	.580	ZPUFZ	79	H	
47	100	.01	84	PCT	10	P3	VS3	-.81					09H	V83	.580	ZPUFZ	79	H	
47	100			TBP									TEC	TEC	.610	ZBAZC	1000	C	
49	100	.50	124	PCT	13	P2	BM1	-.84					TEH	TEC	.610	ZBAZC	8	C	
49	100	.39	97	PCT	10	P2	BM2	.87					TEH	TEC	.610	ZBAZC	8	C	
49	100	.51	80	PCT	9	P3	VS3	.18					09C	V83	.580	ZPUFZ	74	C	
49	100	.70	94	PCT	12	P3	BM2	.67					09C	V83	.580	ZPUFZ	74	C	
49	100	1.20	98	PCT	17	P3	BM1	-.64					09H	V83	.580	ZPUFZ	77	H	
49	100	.43	85	PCT	7	P3	BM1	-.07					09H	V83	.580	ZPUFZ	77	H	
49	100			TBP									TEC	TEC	.610	ZBAZC	1000	C	
51	100	.59	142	PCT	14	P2	BM1	-.82					TEH	TEC	.610	ZBAZC	8	C	
51	100	.53	127	PCT	13	P2	BM2	.90					TEH	TEC	.610	ZBAZC	8	C	
51	100	.82	89	PCT	13	P3	BM2	.79					09C	V83	.580	ZPUFZ	74	C	
51	100	.92	102	PCT	14	P3	BM1	-.73					09H	V83	.580	ZPUFZ	77	H	
51	100			TBP									TEC	TEC	.610	ZBAZC	1000	C	
169	100	.25	93	PCT	7	P2	BM2	-.93					V83	TEC	.610	ZBAZC	61	C	
169	100	.30	107	PCT	0	P3	BM2	-.93					11C	V83	.580	ZPUFZ	70	C	
171	100	.54	128	PCT	14	P2	BM2	.92					V83	TEC	.610	ZBAZC	61	C	
171	100	1.29	91	PCT	19	P3	BM2	.80					11C	V83	.580	ZPUFZ	70	C	
48	101	.02	127	PCT	14	P2	BM1	.68					TEH	TEC	.610	ZBAZC	8	C	
48	101	1.75	103	PCT	29	P2	VS3	.61					TEH	TEC	.610	ZBAZC	8	C	
48	101	1.45	90	PCT	20	P3	BM1	.93					09H	V83	.580	ZPUFZ	77	H	
48	101	1.87	89	PCT	25	P3	VS3	.73					09H	V83	.580	ZPUFZ	77	H	
48	101			TBP									TEC	TEC	.610	ZBAZC	1000	C	
168	101	.44	107	PCT	12	P2	BM2	.87					V83	TEC	.610	ZBAZC	60	C	
168	101	.91	94	PCT	14	P3	BM2	.87					11C	V83	.580	ZPUFZ	70	C	
49	102	.58	97	PCT	15	P2	09H	-1.62					TEH	TEC	.610	ZBAZC	7	C	
49	102	2.27	103	PCT	30	P2	BM1	-.83					TEH	TEC	.610	ZBAZC	7	C	
49	102	.50	120	PCT	14	P2	VS3	-.64					TEH	TEC	.610	ZBAZC	7	C	
49	102	.07	101	PCT	17	P2	BM2	-.83					TEH	TEC	.610	ZBAZC	7	C	
49	102	1.03	84	PCT	10	P3	VS3	-.63					09C	V83	.580	ZPUFZ	74	C	
49	102	.72	99	PCT	12	P3	BM2	-.70					09C	V83	.580	ZPUFZ	74	C	



ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEST	ENDT	PDIA	PTYPE	CAL	L
49	102	1.04	99	PCT	10	P3	BM2	-.73						09C	V23	.580	ZPUFZ	74	C
49	102	.37	78	PCT	6	P3	09C	-1.18						09C	V23	.580	ZPUFZ	74	C
49	102	1.33	83	PCT	19	P3	09H	-1.43						09H	V23	.580	ZPUFZ	77	H
49	102	2.39	87	PCT	30	P3	BM1	-.81						09H	V23	.580	ZPUFZ	77	H
49	102			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	103	.85	107	PCT	18	P2	BM1	-.92						TEC	TEH	.610	ZBAZC	1	H
40	103	.39	97	PCT	9	P2	BM2	-.83						TEC	TEH	.610	ZBAZC	1	H
40	103	.94	84	PCT	13	P3	V23	-.33						08C	V23	.580	ZPUFZ	74	C
40	103	.87	80	PCT	14	P3	BM2	-.71						08C	V23	.580	ZPUFZ	74	C
40	103	1.28	104	PCT	19	P3	BM1	-.92						08H	V23	.580	ZPUFZ	79	H
40	103			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	103	.58	132	PCT	13	P2	BM1	-.94						TEC	TEH	.610	ZBAZC	1	H
48	103	.79	114	PCT	17	P2	V23	1.07						TEC	TEH	.610	ZBAZC	1	H
48	103	.43	101	PCT	11	P2	BM2	-.90						TEC	TEH	.610	ZBAZC	1	H
48	103	1.08	83	PCT	24	P3	V23	.83						BM2	V23	.580	ZPUFZ	74	C
48	103	1.00	83	PCT	10	P3	BM2	-.70						BM2	V23	.580	ZPUFZ	74	C
48	103	.70	104	PCT	11	P3	BM1	-1.21						BM1	V23	.580	ZPUFZ	79	H
48	103			TBP										TEC	TEC	.610	ZBAZC	1000	C
50	103	.73	98	PCT	10	P2	BM1	-1.05						TEC	TEH	.610	ZBAZC	1	H
50	103	1.01	109	PCT	13	P3	BM1	-.68						09H	V23	.580	ZPUFZ	77	H
50	103			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	104	.25	139	PCT	6	P2	BM1	-.89						TEC	TEH	.610	ZBAZC	1	H
49	104	.48	118	PCT	8	P3	BM1	-.89						09H	V23	.580	ZPUFZ	79	H
49	104			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	105	.60	120	PCT	13	P2	BM2	-.90						TEC	TEH	.610	ZBAZC	1	H
40	105	.08	120	PCT	13	P2	BM2	.93						TEC	TEH	.610	ZBAZC	1	H
40	105	.97	98	PCT	13	P3	BM2	-.73						08C	V23	.580	ZPUFZ	74	C
40	105	1.15	84	PCT	18	P3	BM2	.81						08C	V23	.580	ZPUFZ	74	C
40	105			TBP										TEC	TEC	.610	ZBAZC	1000	C
50	105	.40	33	PCT	12	P2	BM2	.90						TEC	TEH	.610	ZBAZC	2	H
50	105	.96	93	PCT	13	P3	BM2	.81						09C	V23	.580	ZPUFZ	74	C
50	105			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	106	1.41	70	PCT	30	P2	BM1	-.98						TEC	TEH	.610	ZBAZC	2	H
43	106	.69	78	PCT	19	P2	BM1	.71						TEC	TEH	.610	ZBAZC	2	H
43	106	.47	59	PCT	14	P2	BM2	.98						TEC	TEH	.610	ZBAZC	2	H
43	106	.95	87	PCT	13	P3	BM2	.88						08C	V23	.580	ZPUFZ	74	C
43	106	1.35	98	PCT	20	P3	BM1	-.98						08H	V23	.580	ZPUFZ	79	H
43	106	1.05	98	PCT	10	P3	BM1	.71						08H	V23	.580	ZPUFZ	79	H
43	106			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	106	.69	90	PCT	19	P2	BM1	-.93						TEC	TEH	.610	ZBAZC	2	H
49	106	.96	93	PCT	13	P3	BM1	-.93						09H	V23	.580	ZPUFZ	79	H
49	106			TBP										TEC	TEC	.610	ZBAZC	1000	C
51	106	.30	104	PCT	11	P2	BM2	.84						TEC	TEH	.610	ZBAZC	2	H
51	106	.81	93	PCT	13	P3	BM2	.73						09C	V23	.580	ZPUFZ	74	C
51	106			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	107	.24	112	PCT	8	P2	BM1	.98						TEC	TEH	.610	ZBAZC	2	H
48	107	1.30	83	PCT	29	P2	V23	.78						TEC	TEH	.610	ZBAZC	2	H
48	107	.19	81	PCT	6	P2	BM2	-.93						TEC	TEH	.610	ZBAZC	2	H
48	107	2.50	88	PCT	32	P3	V23	.78						BM2	V23	.580	ZPUFZ	74	C
48	107	.40	92	PCT	8	P3	BM2	-.69						BM2	V23	.580	ZPUFZ	74	C
48	107	.42	85	PCT	7	P3	BM1	.99						BM1	V23	.580	ZPUFZ	79	H
48	107			TBP										TEC	TEC	.610	ZBAZC	1000	C
118	107	.76	123	PCT	10	P2	BM1	.94						V23	TEH	.610	ZBAZC	31	H
118	107	1.10	88	PCT	17	P3	BM1	.94						10H	V21	.580	ZPUFZ	79	H
170	107	.42	102	PCT	12	P2	BM2	-.80						V23	TEC	.610	ZBAZC	58	C
170	107	.93	90	PCT	13	P3	BM2	-.68						11C	V25	.580	ZPUFZ	70	C
47	108	3.51	103	PCT	43	P2	BM1	-.98						TEC	TEH	.610	ZBAZC	1	H
47	108	3.04	83	PCT	41	P3	BM1	-.98						08H	V23	.580	ZPUFZ	79	H
47	108			TBP										TEC	TEC	.610	ZBAZC	1000	C
51	108	.60	112	PCT	13	P2	BM1	.81						TEC	TEH	.610	ZBAZC	1	H
51	108	.85	84	PCT	13	P3	BM1	.81						09H	V23	.580	ZPUFZ	79	H
51	108			TBP										TEC	TEC	.610	ZBAZC	1000	C
59	108	.52	07	PCT	12	P2	09H	-1.12						V23	TEH	.610	ZBAZC	33	H
63	108	.37	113	PCT	9	P2	V22	-.94						V23	TEH	.610	ZBAZC	33	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LQCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
83	106	.74	89	PCT	12	P3	VC2	-.94						V82	V82	.580	ZPUFZ	79	H
111	106	.37	113	PCT	10	P2	VC4	.78						V83	TEC	.610	ZBAZC	45	C
111	106	.87	94	PCT	14	P3	VC4	.80						V84	V84	.580	ZPUFZ	75	C
121	106	.36	63	PCT	11	P2	BM1	-.83						V83	TEH	.610	ZBAZC	30	H
121	106	.66	120	PCT	10	P3	BM1	-.83						10H	V81	.580	ZPUFZ	79	H
46	109	.45	134	PCT	11	P2	BM1	-.80						TEC	TEH	.610	ZBAZC	1	H
46	109	.32	34	PCT	8	P2	VC3	-.83						TEC	TEH	.610	ZBAZC	1	H
46	109	.28	133	PCT	7	P2	BM2	-.83						TEC	TEH	.610	ZBAZC	1	H
46	109	.90	100	PCT	14	P3	VC3	-.90						08C	V83	.580	ZPUFZ	74	C
46	109	.81	103	PCT	13	P3	BM2	-.73						08C	V83	.580	ZPUFZ	74	C
46	109	.99	93	PCT	13	P3	BM1	-.80						08H	V83	.580	ZPUFZ	79	H
46	109			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	109	.37	131	PCT	9	P2	BM1	.77						TEC	TEH	.610	ZBAZC	1	H
48	109	.90	107	PCT	8	P3	BM1	.77						BM1	V83	.580	ZPUFZ	79	H
48	109			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	110	3.80	82	PCT	47	P2	BM1	-.87						TEC	TEH	.610	ZBAZC	2	H
43	110	2.03	87	PCT	36	P2	BM1	-.73						TEC	TEH	.610	ZBAZC	2	H
43	110	2.08	86	PCT	33	P3	BM1	-.87						08H	V83	.580	ZPUFZ	79	H
43	110	2.73	87	PCT	34	P3	BM1	.73						08H	V83	.580	ZPUFZ	79	H
43	110			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	110	.31	38	PCT	10	P2	BM1	.82						TEC	TEH	.610	ZBAZC	2	H
47	110	.79	94	PCT	12	P3	BM1	.82						08H	V83	.580	ZPUFZ	79	H
47	110			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	110	.45	100	PCT	13	P2	BM1	-.97						TEC	TEH	.610	ZBAZC	2	H
49	110	.75	111	PCT	12	P3	BM1	-.97						09H	V83	.580	ZPUFZ	79	H
49	110			TBP										TEC	TEC	.610	ZBAZC	1000	C
57	110	.27	43	PCT	9	P2	BM1	1.76						V83	TEH	.610	ZBAZC	34	H
57	110	.68	88	PCT	11	P3	BM1	1.76						09H	V83	.580	ZPUFZ	79	H
46	111	.35	81	PCT	11	P2	BM1	-.91						TEC	TEH	.610	ZBAZC	2	H
46	111	.26	116	PCT	6	P2	BM2	-.93						TEC	TEH	.610	ZBAZC	2	H
46	111	.53	109	PCT	9	P3	BM2	-.77						08C	V83	.580	ZPUFZ	74	C
46	111	.61	113	PCT	10	P3	BM1	-.91						08H	V83	.580	ZPUFZ	79	H
46	111			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	111	.56	101	PCT	10	P2	BM1	-1.03						TEC	TEH	.610	ZBAZC	2	H
48	111	.34	102	PCT	11	P2	BM1	.73						TEC	TEH	.610	ZBAZC	2	H
48	111	.27	38	PCT	9	P2	VC3	1.09						TEC	TEH	.610	ZBAZC	2	H
48	111	1.03	103	PCT	10	P3	BM1	-1.03						BM1	V83	.580	ZPUFZ	79	H
48	111	.48	98	PCT	8	P3	BM1	.73						BM1	V83	.580	ZPUFZ	79	H
48	111	.58	89	PCT	9	P3	VC3	1.09						BM1	V83	.580	ZPUFZ	79	H
48	111			TBP										TEC	TEC	.610	ZBAZC	1000	C
140	111	.51	140	PCT	11	P2	VC2	.80						V83	TEH	.610	ZBAZC	29	H
140	111	.77	90	PCT	12	P3	VC2	.80						V82	V82	.580	ZPUFZ	79	H
43	112	.96	114	PCT	20	P2	BM1	.83						TEC	TEH	.610	ZBAZC	3	H
43	112	1.02	93	PCT	23	P3	BM1	.83						08H	V83	.580	ZPUFZ	79	H
43	112			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	112	1.52	113	PCT	27	P2	BM1	-.89						TEC	TEH	.610	ZBAZC	3	H
47	112	1.98	92	PCT	27	P3	BM1	-.89						08H	V83	.580	ZPUFZ	79	H
47	112			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	112	.25	108	PCT	6	P2	09H	-.90						TEC	TEH	.610	ZBAZC	3	H
67	112	.80	113	PCT	17	P2	BM1	.83						V83	TEH	.610	ZBAZC	33	H
67	112	1.37	93	PCT	20	P3	BM1	.83						09H	V82	.580	ZPUFZ	79	H
44	113	.48	113	PCT	11	P2	BM2	-.87						TEC	TEH	.610	ZBAZC	3	H
44	113	.81	84	PCT	13	P3	BM2	-.82						08C	V83	.580	ZPUFZ	74	C
44	113			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	113	.46	140	PCT	11	P2	BM2	-.80						TEC	TEH	.610	ZBAZC	3	H
40	113	.97	97	PCT	13	P3	BM2	-.72						08C	V83	.580	ZPUFZ	74	C
40	113			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	113	.55	114	PCT	13	P2	BM1	.70						TEC	TEH	.610	ZBAZC	3	H
48	113	.21	123	PCT	3	P2	BM2	-.63						TEC	TEH	.610	ZBAZC	3	H
48	113	.55	106	PCT	9	P3	BM2	-.70						BM2	V83	.580	ZPUFZ	74	C
48	113	.73	83	PCT	11	P3	BM1	.70						BM1	V83	.580	ZPUFZ	79	H
48	113			TBP										TEC	TEC	.610	ZBAZC	1000	C

ROW	COL	VOLTS	DEG	INH	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
50	113	.43	120	PCT	8	P2	BM1	-1.39						V23	TEH	.610	ZBAZC	27	H
50	113	.54	79	PCT	9	P3	BM1	-1.39						09H	V23	.580	ZPUFZ	79	H
84	113	.44	137	PCT	10	P2	BM1	-.68						V23	TEH	.610	ZBAZC	33	H
84	113	.97	94	PCT	15	P3	BM1	-.68						09H	V22	.580	ZPUFZ	79	H
110	113	.91	111	PCT	21	P2	VC4	-1.23						V23	TEC	.610	ZBAZC	44	C
110	113	1.00	80	PCT	24	P3	VC4	-.84						V24	V24	.580	ZPUFZ	75	C
112	113	.44	74	PCT	12	P2	VC4	.95						V23	TEC	.610	ZBAZC	44	C
112	113	.97	90	PCT	16	P3	VC4	.75						V24	V24	.580	ZPUFZ	75	C
43	114	1.97	91	PCT	30	P2	BM1	.80						TEC	TEH	.610	ZBAZC	4	H
43	114	.58	121	PCT	10	P2	BM2	-.92						TEC	TEH	.610	ZBAZC	4	H
43	114	.95	84	PCT	15	P3	BM2	-.50						08C	V23	.580	ZPUFZ	74	C
43	114	1.98	83	PCT	27	P3	BM1	.77						08H	V23	.580	ZPUFZ	79	H
43	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
45	114	.57	92	PCT	10	P2	BM1	.80						TEC	TEH	.610	ZBAZC	4	H
45	114	.88	72	PCT	22	P2	BM2	-.90						TEC	TEH	.610	ZBAZC	4	H
45	114	1.32	101	PCT	29	P2	BM2	.98						TEC	TEH	.610	ZBAZC	4	H
45	114	1.20	85	PCT	19	P3	BM2	-.78						08C	V23	.580	ZPUFZ	74	C
45	114	1.07	89	PCT	24	P3	BM2	.63						08C	V23	.580	ZPUFZ	74	C
45	114	.70	111	PCT	12	P3	BM1	.80						08H	V23	.580	ZPUFZ	79	H
45	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	114	.88	109	PCT	22	P2	BM2	-.95						TEC	TEH	.610	ZBAZC	4	H
47	114	.37	42	PCT	12	P2	BM2	1.00						TEC	TEH	.610	ZBAZC	4	H
47	114	1.31	90	PCT	20	P3	BM2	-.77						08C	V23	.580	ZPUFZ	74	C
47	114	.77	98	PCT	13	P3	BM2	.78						08C	V23	.580	ZPUFZ	74	C
47	114			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	114	.30	63	PCT	11	P2	BM2	-1.02						TEC	TEH	.610	ZBAZC	4	H
49	114	.79	80	PCT	21	P2	BM2	.59						TEC	TEH	.610	ZBAZC	4	H
49	114	.07	100	PCT	11	P3	BM2	-.70						09C	V23	.580	ZPUFZ	74	C
49	114	1.40	94	PCT	21	P3	BM2	.78						09C	V23	.580	ZPUFZ	74	C
51	114	.20	77	PCT	9	P2	BM2	.99						TEC	TEH	.610	ZBAZC	4	H
51	114	.90	100	PCT	9	P3	BM2	.84						09C	V23	.580	ZPUFZ	74	C
113	114	.47	104	PCT	13	P2	VC4	.97						V23	TEC	.610	ZBAZC	44	C
113	114	.92	84	PCT	15	P3	VC4	.84						V24	V24	.580	ZPUFZ	75	C
117	114	.46	129	PCT	13	P2	VC4	-.83						V23	TEC	.610	ZBAZC	44	C
117	114	.92	89	PCT	15	P3	VC4	-.83						V24	V24	.580	ZPUFZ	75	C
42	115	1.01	97	PCT	24	P2	BM2	.87						TEC	TEH	.610	ZBAZC	4	H
42	115	1.41	94	PCT	21	P3	BM2	.82						09C	V23	.580	ZPUFZ	74	C
42	115			TBP										TEC	TEC	.610	ZBAZC	1000	C
44	115	.27	29	PCT	9	P2	BM2	1.00						TEC	TEH	.610	ZBAZC	4	H
44	115	.43	62	PCT	8	P3	BM2	.87						08C	V23	.580	ZPUFZ	74	C
44	115			TBP										TEC	TEC	.610	ZBAZC	1000	C
50	115	.25	85	PCT	8	P2	BM2	.90						TEC	TEH	.610	ZBAZC	4	H
50	115	.71	87	PCT	12	P3	BM2	.70						09C	V23	.580	ZPUFZ	74	C
60	115	.31	72	PCT	10	P2	VC3	-.50						V23	TEH	.610	ZBAZC	28	H
60	115	.01	88	PCT	10	P3	VC3	-.50						V23	V23	.580	ZPUFZ	79	H
60	115	.00	81	PCT	18	P2	VC3	-.04						V23	TEH	.610	ZBAZC	28	H
60	115	.90	89	PCT	15	P3	VC3	-.64						V23	V23	.580	ZPUFZ	79	H
108	115	.31	130	PCT	9	P2	VC5	-.80						V23	TEC	.610	ZBAZC	58	C
39	116	.40	135	PCT	10	P2	BM1	-.93						TEC	TEH	.610	ZBAZC	3	H
39	116	.23	131	PCT	0	P2	VC3	-.87						TEC	TEH	.610	ZBAZC	3	H
39	116	.84	80	PCT	11	P3	BM1	-.93						08H	V23	.580	ZPUFZ	81	H
39	116	.00	80	PCT	8	P3	VC3	-.87						08H	V23	.580	ZPUFZ	81	H
39	116			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	116	.42	100	PCT	10	P2	BM1	-.98						TEC	TEH	.610	ZBAZC	3	H
43	116	.72	119	PCT	10	P3	BM1	-.98						08H	V23	.580	ZPUFZ	81	H
43	116			TBP										TEC	TEC	.610	ZBAZC	1000	C
49	116	.28	90	PCT	7	P2	09H	.90						TEC	TEH	.610	ZBAZC	3	H
40	117	1.02	112	PCT	21	P2	VC3	.84						TEC	TEH	.610	ZBAZC	3	H
40	117	1.30	70	PCT	20	P3	VC3	.80						V23	V23	.580	ZPUFZ	82	C

ROW	COL	VOLTS	DEG	IND	PER	CHN	LQCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
40	117			TBP										TEC	TEC	.610	ZBAZC	1000	C
42	117	1.29	121	PCT	24	P2	VS3	.84						TEC	TEH	.610	ZBAZC	3	H
42	117	.54	147	PCT	12	P2	BM2	.84						TEC	TEH	.610	ZBAZC	3	H
42	117	1.81	90	PCT	25	P3	VS3	.73						QSC	VS3	.580	ZPUFZ	74	C
42	117	.80	98	PCT	13	P3	BM2	.74						QSC	VS3	.580	ZPUFZ	74	C
42	117			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	117	.35	140	PCT	9	P2	BM1	.89						TEC	TEH	.610	ZBAZC	3	H
48	117	.73	88	PCT	10	P3	BM1	.89						BM1	VS3	.580	ZPUFZ	81	H
48	117	.49	70	PCT	7	P3	VS3	.24						BM1	VS3	.580	ZPUFZ	81	H
48	117	.60	90	PCT	6	P3	VS3	.89						BM1	VS3	.580	ZPUFZ	81	H
110	117	.55	119	PCT	15	P2	VS3	.74						VS3	TEC	.610	ZBAZC	44	C
110	117	.71	120	PCT	16	P2	VS4	-.89						VS3	TEC	.610	ZBAZC	44	C
110	117	1.29	90	PCT	20	P3	VS4	-.88						VS4	VS4	.580	ZPUFZ	75	C
110	117	.95	94	PCT	15	P3	VS3	.74						VS3	VS3	.580	ZPUFZ	79	H
37	118	.84	99	PCT	22	P2	BM1	-.91						TEC	TEH	.610	ZBAZC	4	H
37	118	1.31	102	PCT	16	P3	BM1	-.91						QSH	VS3	.580	ZPUFZ	82	H
37	118	.38	107	PCT	5	P3	VS3	-1.19						QSH	VS3	.580	ZPUFZ	82	H
37	118			TBP										TEC	TEC	.610	ZBAZC	1000	C
41	118	.95	64	PCT	23	P2	BM1	-.88						TEC	TEH	.610	ZBAZC	4	H
41	118	1.00	84	PCT	21	P3	BM1	-.88						QSH	VS3	.580	ZPUFZ	81	H
41	118			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	118	.60	83	PCT	18	P2	BM1	-.91						TEC	TEH	.610	ZBAZC	4	H
43	118	.94	108	PCT	12	P3	BM1	-.91						QSH	VS3	.580	ZPUFZ	81	H
43	118			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	118	.20	68	PCT	7	P2	BM1	.88						TEC	TEH	.610	ZBAZC	4	H
47	118	.23	60	PCT	3	P3	BM1	.88						QSH	VS3	.580	ZPUFZ	81	H
83	118	.31	98	PCT	10	P2	BM1	-.89						VS3	TEH	.610	ZBAZC	34	H
83	118	.74	87	PCT	12	P3	BM1	-.89						QSH	VS2	.580	ZPUFZ	79	H
87	118	.20	53	PCT	7	P2	BM1	-.81						VS3	TEH	.610	ZBAZC	34	H
87	118	.40	98	PCT	6	P3	BM1	-.81						QSH	VS2	.580	ZPUFZ	79	H
89	118	.40	31	PCT	14	P2	BM1	.83						VS3	TEH	.610	ZBAZC	34	H
89	118	1.02	104	PCT	15	P3	BM1	.83						QSH	VS2	.580	ZPUFZ	79	H
107	118	.45	103	PCT	12	P2	VS4	.90						VS3	TEC	.610	ZBAZC	44	C
107	118	1.00	88	PCT	16	P3	VS4	.89						VS4	VS4	.580	ZPUFZ	75	C
38	119	1.59	98	PCT	32	P2	BM1	-.91						TEC	TEH	.610	ZBAZC	4	H
38	119	1.05	98	PCT	33	P2	BM1	.89						TEC	TEH	.610	ZBAZC	4	H
38	119	2.05	84	PCT	30	P3	BM1	-.91						QSH	VS3	.580	ZPUFZ	82	H
38	119	1.90	79	PCT	23	P3	BM1	.88						QSH	VS3	.580	ZPUFZ	82	H
38	119			TBP										TEC	TEC	.610	ZBAZC	1000	C
38	119	1.42	98	PCT	30	P2	BM1	-.91						TEC	TEH	.610	ZBAZC	4	H
38	119	.37	63	PCT	11	P2	VS3	.75						TEC	TEH	.610	ZBAZC	4	H
38	119	.53	63	PCT	15	P2	BM2	.91						TEC	TEH	.610	ZBAZC	4	H
38	119	.70	89	PCT	12	P3	VS3	.83						QSC	VS3	.580	ZPUFZ	74	C
38	119	.75	87	PCT	12	P3	BM2	.80						QSC	VS3	.580	ZPUFZ	74	C
38	119	1.01	94	PCT	13	P3	BM1	-.91						QSH	VS3	.580	ZPUFZ	82	H
38	119			TBP										TEC	TEC	.610	ZBAZC	1000	C
40	119	.40	111	PCT	14	P2	BM1	-.88						TEC	TEH	.610	ZBAZC	4	H
40	119	.28	49	PCT	9	P2	BM2	.89						TEC	TEH	.610	ZBAZC	4	H
40	119	.52	71	PCT	9	P3	BM2	.82						QSC	VS3	.580	ZPUFZ	74	C
40	119	.49	130	PCT	6	P3	BM1	-.88						QSH	VS3	.580	ZPUFZ	81	H
40	119			TBP										TEC	TEC	.610	ZBAZC	1000	C
42	119	.40	108	PCT	14	P2	BM1	-1.00						TEC	TEH	.610	ZBAZC	4	H
42	119	.09	94	PCT	9	P3	BM1	-1.00						QSH	VS3	.580	ZPUFZ	81	H
42	119			TBP										TEC	TEC	.610	ZBAZC	1000	C
48	119	.24	123	PCT	8	P2	BM1	.80						TEC	TEH	.610	ZBAZC	4	H
48	119	.32	34	PCT	4	P3	BM1	.80						QSH	VS3	.580	ZPUFZ	81	H
48	119	.41	139	PCT	13	P2	BM1	.89						TEC	TEH	.610	ZBAZC	4	H
48	119	.50	78	PCT	7	P3	BM1	.89						QSH	VS3	.580	ZPUFZ	81	H
35	120	.01	108	PCT	14	P2	BM1	-.88						TEC	TEH	.610	ZBAZC	3	H
35	120	.23	63	PCT	6	P2	VS3	.93						TEC	TEH	.610	ZBAZC	3	H
35	120	.32	94	PCT	8	P2	BM2	.88						TEC	TEH	.610	ZBAZC	3	H
35	120	.44	103	PCT	8	P3	VS3	.33						QSC	VS3	.580	ZPUFZ	74	C

ROW	COL	VOLTS	DEG	END	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEST	ENDT	PDIA	PTYPE	CAL	L
33	120	.65	103	PCT	11	P3	VS3	.90						08C	VS3	.580	ZPUFZ	74	C
33	120	.71	107	PCT	12	P3	BW2	.79						08C	VS3	.580	ZPUFZ	74	C
33	120	.61	108	PCT	8	P3	BW1	-.98						08H	VS3	.580	ZPUFZ	82	H
33	120			TBP										TEC	TEC	.610	ZBAZC	1000	C
43	120	.28	89	PCT	7	P2	BW1	.89						TEC	TEH	.610	ZBAZC	3	H
43	120	.64	80	PCT	8	P3	BW1	.89						08H	VS3	.580	ZPUFZ	81	H
45	120	.79	121	PCT	17	P2	BW1	.89						TEC	TEH	.610	ZBAZC	3	H
45	120	.53	110	PCT	12	P2	VS3	-.82						TEC	TEH	.610	ZBAZC	3	H
45	120	1.23	102	PCT	10	P3	BW1	1.08						08H	VS3	.580	ZPUFZ	81	H
45	120	1.06	88	PCT	14	P3	VS3	-.82						08H	VS3	.580	ZPUFZ	81	H
67	120	.56	76	PCT	10	P2	BW1	.54						VS3	TEH	.610	ZBAZC	28	H
67	120	1.09	97	PCT	14	P3	BW1	.54						08H	VS2	.580	ZPUFZ	82	H
69	120	.39	98	PCT	12	P2	BW1	.71						VS3	TEH	.610	ZBAZC	28	H
69	120	.66	128	PCT	8	P3	BW1	.71						08H	VS2	.580	ZPUFZ	82	H
34	121	2.34	113	PCT	35	P2	BW1	-.82						TEC	TEH	.610	ZBAZC	3	H
34	121	2.51	90	PCT	29	P3	BW1	-.82						08H	VS3	.580	ZPUFZ	82	H
34	121			TBP										TEC	TEC	.610	ZBAZC	1000	C
38	121	.36	124	PCT	9	P2	VS3	.70						TEC	TEH	.610	ZBAZC	3	H
38	121	.74	80	PCT	12	P3	VS3	.80						VS3	VS3	.580	ZPUFZ	82	C
40	121	.61	123	PCT	14	P2	VS3	.70						TEC	TEH	.610	ZBAZC	3	H
40	121	.81	83	PCT	13	P3	VS3	.82						VS3	VS3	.580	ZPUFZ	82	C
108	121	.43	117	PCT	12	P2	VS4	-1.23						VS3	TEC	.610	ZBAZC	44	C
108	121	1.17	96	PCT	18	P3	VS4	-.76						VS4	VS4	.580	ZPUFZ	75	C
110	121	.38	121	PCT	11	P2	VS4	-1.30						VS3	TEC	.610	ZBAZC	44	C
110	121	.91	93	PCT	15	P3	VS4	-.78						VS4	VS4	.580	ZPUFZ	75	C
120	121	.52	63	PCT	15	P2	VS2	.72						VS3	TEH	.610	ZBAZC	28	H
120	121	1.27	90	PCT	19	P3	VS2	.72						VS2	VS2	.580	ZPUFZ	79	H
33	122	9.39	85	PCT	55	P2	BW1	-.93						TEC	TEH	.610	ZBAZC	4	H
33	122	7.41	82	PCT	66	P3	BW1	-.84						08H	VS3	.580	ZPUFZ	81	H
33	122			TBP										TEC	TEC	.610	ZBAZC	1000	C
33	122	.41	96	PCT	12	P2	BW1	-1.02						TEC	TEH	.610	ZBAZC	4	H
33	122	.32	37	PCT	10	P2	BW1	.93						TEC	TEH	.610	ZBAZC	4	H
33	122	.81	109	PCT	10	P3	BW1	-1.02						08H	VS3	.580	ZPUFZ	82	H
33	122	.59	78	PCT	8	P3	BW1	.93						08H	VS3	.580	ZPUFZ	82	H
33	122			TBP										TEC	TEC	.610	ZBAZC	1000	C
47	122	.39	56	PCT	12	P2	BW1	.84						TEC	TEH	.610	ZBAZC	4	H
47	122	.66	100	PCT	9	P3	BW1	.84						08H	VS3	.580	ZPUFZ	81	H
163	122	.25	97	PCT	6	P2	BW2	.89						VS3	TEC	.610	ZBAZC	59	C
163	122	.85	97	PCT	14	P3	BW2	1.04						11C	VS3	.580	ZPUFZ	73	C
167	122	.40	101	PCT	10	P2	BW2	.87						VS3	TEC	.610	ZBAZC	59	C
167	122	.99	95	PCT	10	P3	BW2	.98						11C	VS3	.580	ZPUFZ	73	C
29	124	.37	136	PCT	9	P2	BW1	-.86						TEC	TEH	.610	ZBAZC	3	H
29	124	1.49	99	PCT	27	P2	BW1	.77						TEC	TEH	.610	ZBAZC	3	H
29	124	.85	100	PCT	11	P3	BW1	-.86						08H	VS3	.580	ZPUFZ	82	H
29	124	2.03	84	PCT	24	P3	BW1	.77						08H	VS3	.580	ZPUFZ	82	H
29	124			TBP										TEC	TEC	.610	ZBAZC	1000	C
31	124	1.28	114	PCT	24	P2	BW1	-.80						TEC	TEH	.610	ZBAZC	3	H
31	124	1.80	93	PCT	22	P3	BW1	-.80						08H	VS3	.580	ZPUFZ	82	H
31	124			TBP										TEC	TEC	.610	ZBAZC	1000	C
159	124	.59	80	PCT	17	P2	VS3	.87						VS3	TEH	.610	ZBAZC	28	H
159	124	1.10	86	PCT	18	P3	VS3	.79						VS3	VS3	.580	ZPUFZ	82	C
30	125	.37	148	PCT	9	P2	BW1	-.93						TEC	TEH	.610	ZBAZC	3	H
30	125	.98	108	PCT	12	P3	BW1	-.98						08H	VS3	.580	ZPUFZ	82	H
30	125			TBP										TEC	TEC	.610	ZBAZC	1000	C
23	126	.44	114	PCT	13	P2	BW1	-.93						TEC	TEH	.610	ZBAZC	4	H
23	126	.72	103	PCT	9	P3	BW1	-.93						08H	VS3	.580	ZPUFZ	82	H
23	126			TBP										TEC	TEC	.610	ZBAZC	1000	C
161	126	.32	95	PCT	8	P2	VS1	.56						VS3	TEH	.610	ZBAZC	27	H
161	126	.65	85	PCT	8	P3	VS1	.56						VS1	VS1	.580	ZPUFZ	82	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
163	126	.53	141	PCT	12	P2	BM2	-.90					V83	TEC	.610	ZBAZC	59	C	
163	126	1.30	92	PCT	20	P3	BM2	-.83					11C	V83	.580	ZPUFZ	73	C	
163	126	.63	96	PCT	11	P3	BM2	.99					11C	V83	.580	ZPUFZ	73	C	
22	127	.20	70	PCT	7	P2	BM1	-.93					TEC	TEH	.610	ZBAZC	4	H	
22	127	.46	103	PCT	6	P3	BM1	-.93					08H	V83	.580	ZPUFZ	82	H	
22	127			TBP									TEC	TEC	.610	ZBAZC	1000	C	
24	127	.35	89	PCT	11	P2	BM1	.79					TEC	TEH	.610	ZBAZC	4	H	
24	127	.55	113	PCT	7	P3	BM1	.79					08H	V83	.580	ZPUFZ	82	H	
24	127			TBP									TEC	TEC	.610	ZBAZC	1000	C	
28	127	.47	98	PCT	14	P2	V83	.98					TEC	TEH	.610	ZBAZC	4	H	
28	127	.66	81	PCT	11	P3	V83	.81					V83	V83	.580	ZPUFZ	82	C	
104	127	.90	118	PCT	21	P2	BM2	-.78					V83	TEC	.610	ZBAZC	58	C	
104	127	1.03	98	PCT	24	P3	BM2	-.94					11C	V83	.580	ZPUFZ	73	C	
100	127	.46	132	PCT	13	P2	BM2	-.73					V83	TEC	.610	ZBAZC	58	C	
100	127	1.01	93	PCT	16	P3	BM2	-.88					11C	V83	.580	ZPUFZ	73	C	
100	127	.87	83	PCT	14	P3	BM2	.88					11C	V83	.580	ZPUFZ	73	C	
157	128	.34	82	PCT	11	P2	V83	.68					V83	TEH	.610	ZBAZC	26	H	
157	128	.67	93	PCT	11	P3	V83	.11					V83	V83	.580	ZPUFZ	82	C	
157	128	1.00	84	PCT	16	P3	V83	.73					V83	V83	.580	ZPUFZ	82	C	
104	129	.69	84	PCT	13	P2	BM2	.91					V83	TEC	.610	ZBAZC	59	C	
104	129	1.42	93	PCT	21	P3	BM2	.86					11C	V83	.580	ZPUFZ	73	C	
111	130	.25	118	PCT	8	P2	V84	-.83					V83	TEC	.610	ZBAZC	46	C	
111	130	.70	89	PCT	12	P3	V84	-.73					V84	V84	.580	ZPUFZ	73	C	
103	130	.65	73	PCT	13	P2	BM2	.83					V83	TEC	.610	ZBAZC	59	C	
103	130	1.48	99	PCT	22	P3	BM2	.90					11C	V83	.580	ZPUFZ	73	C	
104	131	.58	108	PCT	16	P2	BM2	.83					V83	TEC	.610	ZBAZC	58	C	
104	131	1.14	97	PCT	18	P3	BM2	.88					11C	V83	.580	ZPUFZ	73	C	
103	132	.33	74	PCT	10	P2	V85	.78					V83	TEC	.610	ZBAZC	58	C	
4	133	.49	93	PCT	11	P3	BM2	-.69					08H	08C	.540	ZPUFH	79	H	
118	133	.44	82	PCT	13	P2	V83	.81					V83	TEH	.610	ZBAZC	26	H	
118	133	1.03	84	PCT	16	P3	V83	.73					V83	V83	.580	ZPUFZ	82	C	
130	133	.44	98	PCT	13	P2	V83	-.69					V83	TEH	.610	ZBAZC	26	H	
130	133	.89	82	PCT	14	P3	V83	-.74					V83	V83	.580	ZPUFZ	82	C	
158	133	.37	117	PCT	9	P2	BM2	-.88					V83	TEC	.610	ZBAZC	57	C	
158	133	1.02	108	PCT	16	P3	BM2	-.84					11C	V83	.580	ZPUFZ	73	C	
102	133	.31	133	PCT	8	P2	BM2	.83					V83	TEC	.610	ZBAZC	57	C	
102	133	.84	104	PCT	14	P3	BM2	.83					11C	V83	.580	ZPUFZ	73	C	
119	134	.29	130	PCT	9	P2	V84	-.97					V83	TEC	.610	ZBAZC	46	C	
119	134	1.04	92	PCT	17	P3	V84	-.94					V84	V84	.580	ZPUFZ	73	C	
123	134	.32	111	PCT	10	P2	V84	-.91					V83	TEC	.610	ZBAZC	46	C	
123	134	.88	94	PCT	14	P3	V84	-.87					V84	V84	.580	ZPUFZ	73	C	
101	134	.76	83	PCT	16	P2	BM2	.84					V83	TEC	.610	ZBAZC	57	C	
101	134	.44	102	PCT	8	P3	BM2	-.93					11C	V83	.580	ZPUFZ	73	C	
101	134	1.53	93	PCT	23	P3	BM2	.92					11C	V83	.580	ZPUFZ	73	C	
130	135	.37	134	PCT	10	P2	BM2	-.77					V83	TEC	.610	ZBAZC	56	C	
130	135	.70	100	PCT	12	P3	BM2	-.80					11C	V83	.580	ZPUFZ	73	C	
130	135	.81	123	PCT	19	P2	BM2	-.67					V83	TEC	.610	ZBAZC	56	C	
130	135	1.36	101	PCT	21	P3	BM2	-.88					11C	V83	.580	ZPUFZ	73	C	
138	135	.29	101	PCT	8	P2	BM2	-.77					V83	TEC	.610	ZBAZC	56	C	
138	135	.49	101	PCT	9	P3	BM2	-.88					11C	V83	.580	ZPUFZ	73	C	
100	135	1.14	102	PCT	24	P2	BM2	-.88					V83	TEC	.610	ZBAZC	56	C	
100	135	1.85	93	PCT	26	P3	BM2	-.91					11C	V83	.580	ZPUFZ	73	C	
102	135	1.01	113	PCT	22	P2	BM2	-.77					V83	TEC	.610	ZBAZC	56	C	
102	135	1.48	94	PCT	22	P3	BM2	-.88					11C	V83	.580	ZPUFZ	73	C	

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	ORLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
37	136	.19	113	PCT	6	P2	VG3	-.65						TEC	TEH	.610	ZBAZC	6	H
139	136	.07	99	PCT	17	P2	BM2	.03						V83	TEC	.610	ZBAZC	56	C
139	136	1.53	92	PCT	23	P3	BM2	-.61						11C	V83	.580	ZPUFZ	73	C
161	136	.45	80	PCT	12	P2	BM2	.85						V83	TEC	.610	ZBAZC	56	C
161	136	1.15	88	PCT	18	P3	BM2	.93						11C	V83	.580	ZPUFZ	73	C
122	137	.22	130	PCT	7	P2	VG4	-.88						V83	TEC	.610	ZBAZC	46	C
122	137	.81	95	PCT	14	P3	VG4	-.64						V84	TEC	.580	ZPUFZ	73	C
138	137	.45	112	PCT	11	P2	BM2	-.87						V83	TEC	.610	ZBAZC	57	C
138	137	1.27	92	PCT	20	P3	BM2	-.88						11C	V83	.580	ZPUFZ	73	C
160	137	.29	88	PCT	7	P2	BM2	.85						V83	TEC	.610	ZBAZC	57	C
160	137	.73	84	PCT	12	P3	BM2	.95						11C	V83	.580	ZPUFZ	73	C
98	139	.34	107	PCT	8	P2	VG2	.64						V83	TEH	.610	ZBAZC	25	H
98	139	.72	80	PCT	9	P3	VG2	.64						V82	V82	.580	ZPUFZ	82	H
100	139	.27	83	PCT	7	P2	VG2	.70						V83	TEH	.610	ZBAZC	25	H
100	139	.53	93	PCT	7	P3	VG2	.70						V82	V82	.580	ZPUFZ	82	H
117	140	.34	130	PCT	9	P2	VG3	-.68						V83	TEC	.610	ZBAZC	49	C
117	140	.98	83	PCT	16	P3	VG3	-.69						V83	V83	.580	ZPUFZ	82	C
83	142	.42	99	PCT	10	P2	VG3	-.60						V83	TEH	.610	ZBAZC	23	H
83	142	.92	83	PCT	15	P3	VG3	-.76						V83	V83	.580	ZPUFZ	82	C
101	142	.30	112	PCT	7	P2	BM1	.91						V83	TEH	.610	ZBAZC	25	H
101	142	.47	81	PCT	6	P3	BM1	.91						10H	V82	.580	ZPUFZ	82	H
102	143	.33	114	PCT	8	P2	VG2	.73						V83	TEH	.610	ZBAZC	23	H
102	143	.82	88	PCT	10	P3	VG2	.88						V82	V82	.580	ZPUFZ	82	H
120	143	.70	95	PCT	16	P2	VG2	.67						V83	TEH	.610	ZBAZC	23	H
120	143	.98	91	PCT	12	P3	VG2	.67						V82	V82	.580	ZPUFZ	82	H
120	143	.75	86	PCT	9	P3	VG2	.74						V82	V82	.580	ZPUFZ	82	H
113	146	.53	103	PCT	12	P2	VG2	-.68						V83	TEH	.610	ZBAZC	23	H
113	146	1.34	94	PCT	17	P3	VG2	-.68						V82	V82	.580	ZPUFZ	82	H
63	148	.25	41	PCT	8	P2	VG3	-.50						V83	TEH	.610	ZBAZC	24	H
63	148	.79	39	PCT	13	P3	VG3	-.76						V83	V83	.580	ZPUFZ	82	C
109	148	.23	51	PCT	8	P2	VG3	-.58						V83	TEH	.610	ZBAZC	24	H
109	148	.75	84	PCT	12	P3	VG3	-.80						V83	V83	.580	ZPUFZ	82	C
112	149	.32	116	PCT	10	P2	VG3	1.03						V83	TEH	.610	ZBAZC	22	H
112	149	1.14	87	PCT	18	P3	VG3	.79						V83	V83	.580	ZPUFZ	82	C
118	149	.30	92	PCT	10	P2	BM1	-1.34						V83	TEH	.610	ZBAZC	22	H
118	149	.52	89	PCT	7	P3	BM1	-1.34						10H	V81	.580	ZPUFZ	82	H
120	149	.28	80	PCT	9	P2	BM1	-.94						V83	TEH	.610	ZBAZC	22	H
120	149	.64	91	PCT	8	P3	BM1	-.94						10H	V81	.580	ZPUFZ	82	H
113	150	.79	114	PCT	17	P2	BM1	-.73						V83	TEH	.610	ZBAZC	23	H
113	150	1.15	89	PCT	14	P3	BM1	-.73						10H	V81	.580	ZPUFZ	82	H
80	151	.28	37	PCT	7	P2	VG2	-.69						V83	TEH	.610	ZBAZC	21	H
80	151	.67	93	PCT	9	P3	VG2	-.69						V82	V82	.580	ZPUFZ	82	H
49	154	.29	61	PCT	9	P2	VG3	.75						V83	TEC	.610	ZBAZC	50	C
36	157	.25	97	PCT	7	P2	BM2	-1.80						V83	TEC	.610	ZBAZC	50	C
36	157	.60	82	PCT	10	P3	BM2	-1.38						09C	V83	.580	ZPUFZ	77	C
120	157	.29	36	PCT	9	P2	VG3	-.90						V83	TEC	.610	ZBAZC	50	C
120	157	.50	72	PCT	8	P3	VG3	-.71						V83	V83	.580	ZPUFZ	82	C
49	158	.25	95	PCT	8	P2	VG3	.97						V83	TEC	.610	ZBAZC	50	C
113	158	.10	92	PCT	5	P2	VG5	.90						V83	TEC	.610	ZBAZC	50	C
61	164	.35	89	PCT	9	P2	BM2	.80						V83	TEC	.610	ZBAZC	53	C
61	164	.76	38	PCT	12	P3	BM2	.81						09C	V84	.580	ZPUFZ	77	C
4	165	.52	122	PCT	11	P3	BM2	.54						08H	08C	.540	ZPUFZ	73	H

ROW	COL	VOLTS	DEG	INS	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
104	165	.21	47	PCT	7	P2	BM2	.90					V83	TEC	.610	ZBAZC	50	C	
104	165	.60	93	PCT	10	P3	BM2	.92					10C	V84	.580	ZPUFZ	73	C	
112	165	.30	110	PCT	10	P2	BM1	-.73					V83	TEH	.610	ZBAZC	20	H	
112	165	.67	108	PCT	9	P3	BM1	-.73					10H	V82	.580	ZPUFZ	82	H	
99	166	.23	138	PCT	7	P2	BM2	.80					V83	TEC	.610	ZBAZC	50	C	
99	166	.39	93	PCT	7	P3	BM2	1.01					10C	V84	.580	ZPUFZ	73	C	
96	169	.23	67	PCT	7	P2	BM2	-.82					V83	TEC	.610	ZBAZC	52	C	
96	169	.36	94	PCT	7	P3	BM2	-.88					10C	V84	.580	ZPUFZ	73	C	
87	170	.22	142	PCT	7	P2	BM2	.83					V83	TEC	.610	ZBAZC	52	C	
87	170	.31	108	PCT	6	P3	BM2	.94					09C	V84	.580	ZPUFZ	73	C	
101	170	.27	148	PCT	6	P2	BM2	.79					V83	TEC	.610	ZBAZC	52	C	
101	170	.33	81	PCT	6	P3	BM2	.88					10C	V84	.580	ZPUFZ	73	C	
44	173	.21	87	PCT	7	P2	V83	-.67					V83	TEC	.610	ZBAZC	52	C	
4	175	.45	113	PCT	10	P3	BM1	-.82					08H	06C	.540	ZPUFH	75	H	
109	180	.31	81	PCT	7	P2	V83	-.72					V83	TEH	.610	ZBAZC	17	H	
109	180	.93	83	PCT	15	P3	V83	-.80					V83	V83	.580	ZPUFZ	82	C	
105	181	.53	127	PCT	15	P2	V83	-.90					V83	TEH	.610	ZBAZC	18	H	
105	181	1.34	80	PCT	20	P3	V83	-.92					V83	V83	.580	ZPUFZ	82	C	



**APPENDIX D**

**PLI & PLP**

**DATA SHEETS**

ROW	COL	VOLTS	DEG	INH	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
86	15	1.02	84	PLP		8	01C	1.11						01C	01C	.600	ZPAHZ	79	C
86	15	1.13	88	PLP		8	01C	1.34						01C	01C	.600	ZPAHZ	79	C
87	16	1.34	83	PLP		8	01C	1.28						01C	01C	.600	ZPAHZ	79	C
38	79	1.94	88	PLP		8	TCH	6.09						TEH	01H	.600	ZPAHZ	80	H
39	80	1.29	82	PLP		8	TCH	6.01						TEH	01H	.600	ZPAHZ	80	H
137	142	.83	87	PLP		8	07H	27.83						07H	05H	.600	ZPAHZ	80	H
143	150	.27	89	PLP		8	02C	18.45						02C	03C	.600	ZPAHZ	79	C
143	150	.21	71	PLP		8	02C	18.91						02C	03C	.600	ZPAHZ	79	C
142	151	.21	241	PLP		8	02C	18.63						02C	03C	.600	ZPAHZ	79	C
144	151	.15	70	PLP		8	02C	18.50						02C	03C	.600	ZPAHZ	79	C
143	152	.31	88	PLP		8	02C	19.09						02C	03C	.600	ZPAHZ	79	C
145	152	.34	73	PLP		8	02C	18.83						02C	03C	.600	ZPAHZ	79	C
144	153	.86	85	PLP		8	02C	18.64						02C	03C	.600	ZPAHZ	79	C
146	153	.60	85	PLP		8	02C	18.77						02C	03C	.600	ZPAHZ	79	C
145	154	.71	70	PLP		8	02C	18.62						02C	03C	.600	ZPAHZ	79	C
144	155	.20	83	PLP		8	02C	9.36						02C	03C	.600	ZPAHZ	79	C
144	155	.55	130	PLP		5	08C	24.27						08C	09C	.600	ZPAHZ	83	C
143	156	.11	78	PLP		8	02C	20.40						02C	03C	.600	ZPAHZ	79	C
145	156	.06	97	PLP		8	02C	16.53						02C	03C	.600	ZPAHZ	79	C
145	156	.07	82	PLP		8	02C	17.12						02C	03C	.600	ZPAHZ	79	C

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	I	CRLEN	CRMID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
17	62	1.25	83	PLP		B	TCH	2.08						TSH	TSH	.000	IPAHZ	83	H
19	62	.91	81	PLP		B	TCH	1.97						TSH	TSH	.000	IPAHZ	84	H
53	104	1.91	87	PLP		B	FDP	.50						FDP	FDP	.000	IPAHZ	80	C
52	105	1.47	85	PLP		B	FDP	.07						FDP	FDP	.000	IPAHZ	78	C
34	125	1.85	88	PLP		B	FDP	.51						FDP	FDP	.000	IPAHZ	78	C
35	125	2.01	88	PLP		B	FDP	.53						FDP	FDP	.000	IPAHZ	78	C
33	126	.00	87	PLP		B	FDP	.55						FDP	FDP	.000	IPAHZ	78	C
8	199	2.05	87	PLP		B	O2C	.24						O2C	O2C	.000	IPAHZ	79	C
7	200	2.01	83	PLP		B	O2C	.22						O2C	O2C	.000	IPAHZ	79	C

## **APPENDIX E**

### **PLUG History and Maps**

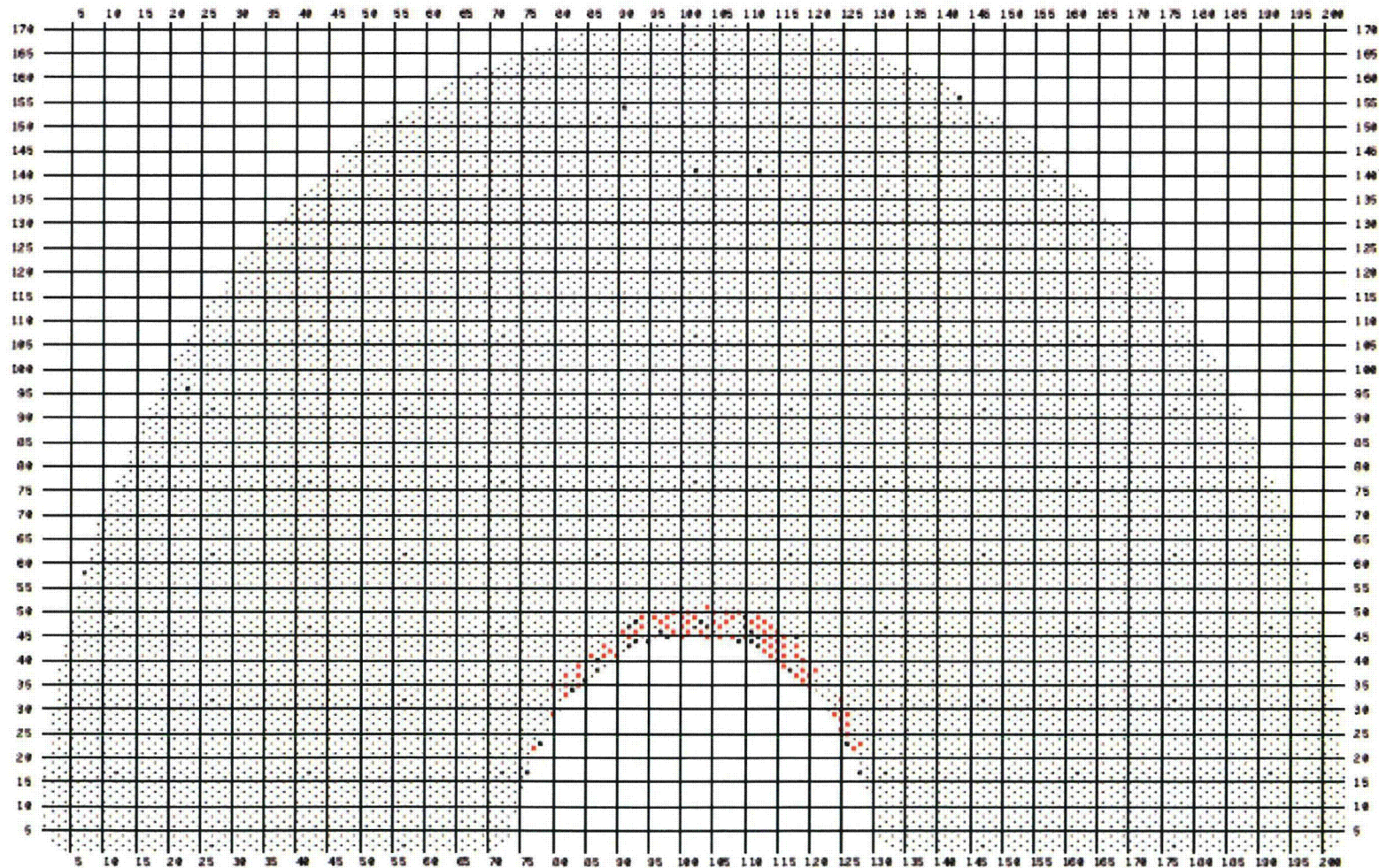
# PLUG HISTORY

	STEAM GENERATOR 21		STEAM GENERATOR 22	
OUTAGE/YEAR	NUMBER OF PLUGS	% BOBBIN EXAMINED	NUMBER OF PLUGS	% BOBBIN EXAMINED
FACTORY 2002	0	NA	1	NA
BASELINE 2-03	10	100	12	100
U2M12	1	<1%	0	0
U2R12	8	100	7	100
U2R13	14	100	17	100
U2R14	83	100	90	100
<b>TOTAL</b>	<b>116</b>		<b>127</b>	

# SG - 21 Tubes Plugged in U2R14

Palo Verde U2R14 PVNGS2 2RSG

- 83 Tube to be Plugged
- 33 Plugged Tube
- 53 Stay Rod

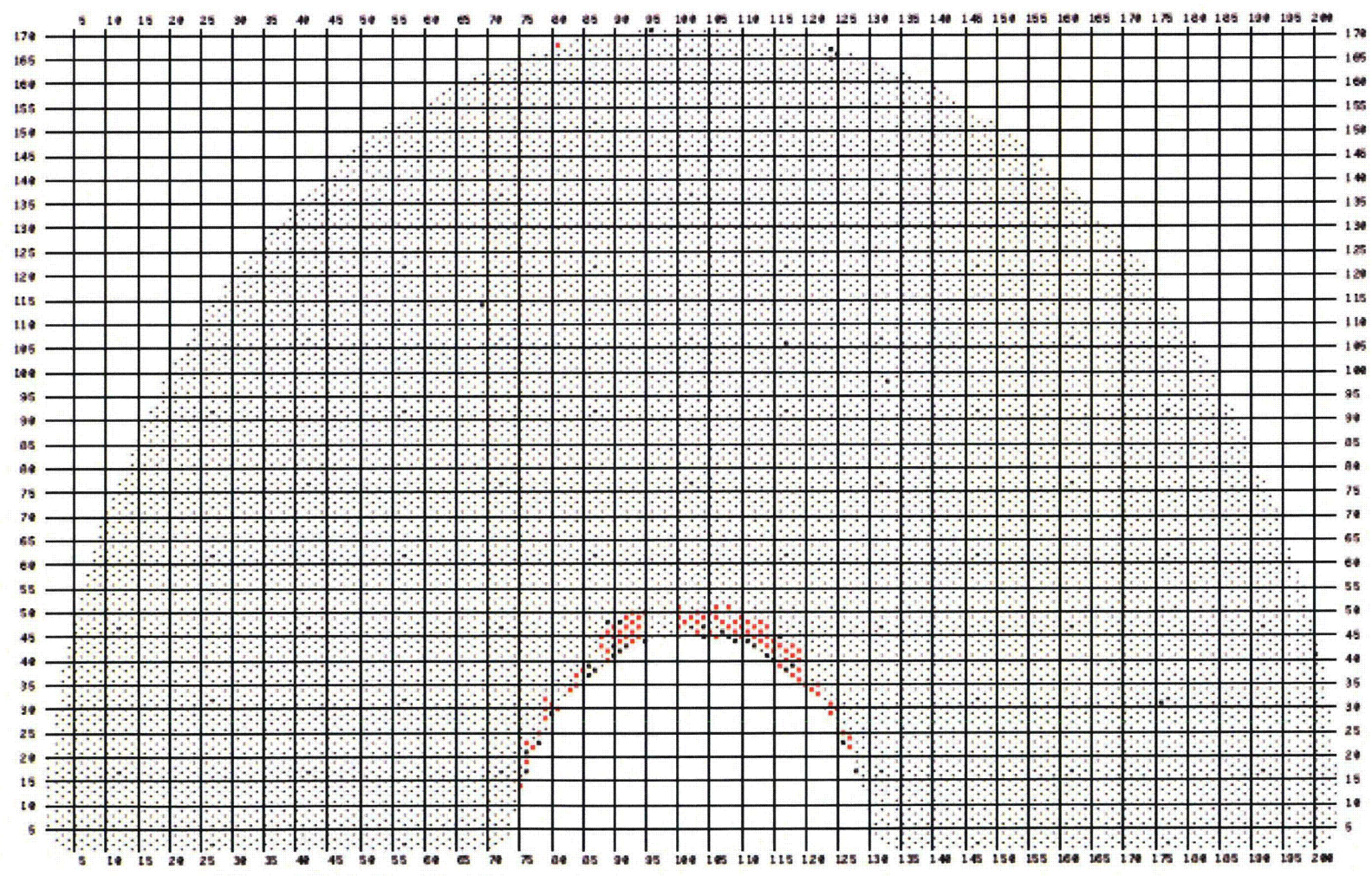




# SG - 22 Tubes Plugged in U2R14

Palo Verde U2R14 PVNGS2 2RSG

- 38 Tube to be Plugged
- 37 Plugged Tube
- 53 Stay Rod



**APPENDIX F**

**FORM NIS-1**





# APS

## NIS - 1 BACK

### OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES

April 2008

8. INSPECTION INTERVAL

3-18-07 to 3-17-17

9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

Table 1 in the report summary section documents the number and type of each examination performed.

No degraded or defective tubes were observed during these examinations. A summary of the tubes with indications of degradation is listed in Appendix B and C of this report for SG 21 and 22 respectively. The tubes identified on the following pages were plugged as a result of this examination.

The number of tubes plugged are as follows: SG 21 = 83 tubes

SG 22 = 90 tubes

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THE EXAMINATIONS AND CORRECTIVE MEASURES TAKEN CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

DATE 5-4-08 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY [Signature]

### CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OF PROVINCE OF ARIZONA EMPLOYED BY HSB CT OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 4-12-08 TO 6-30-08, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASME CODE, SECTION XI. BY SIGNING THIS CERTIFICATE NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EXAMINATIONS AND CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

INSPECTOR [Signature]

COMMISSIONS NB 9685 "A.N.I.C" Az 264  
NATL' BOARD, STATE, PROVINCE

DATE 6-30-08

# APS

## NIS - 1 FORM

### OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER	ARIZONA PUBLIC SERVICE COMPANY, et al
1a. ADDRESS	P. O. BOX 52034; PHOENIX, ARIZONA 85072
2. PLANT	PALO VERDE NUCLEAR GENERATING STATION
2a. ADDRESS	5801 SOUTH WINTERSBURG ROAD, TONOPAH, ARIZONA 85354
3. UNIT NUMBER	2

4. OWNERS CERTIFICATE OF AUTHORIZATION	NONE
--	------

5. COMMERCIAL SERVICE DATE	9-19-86
----------------------------	---------

SG 21 Tubes Plugged			SG 22 Tubes Plugged		
ROW	COL		ROW	COL	
22	77		14	75	
29	80		19	76	
35	80		23	76	
33	82		22	77	
35	82		25	78	
37	82		28	79	
35	84		30	79	
37	84		32	79	
39	84		31	80	
41	86		30	81	
41	88		108	81	
43	88		34	83	
42	89		35	84	
41	90		37	84	
46	91		38	85	
45	92		43	88	
46	93		45	88	
47	94		40	89	
49	94		42	89	
49	96		46	89	
48	97		45	90	
47	98		47	90	
49	98		44	91	
46	99		46	91	
50	99		45	92	
45	100		47	92	
47	100		49	92	
49	100		44	93	
46	101		46	93	
48	101		48	93	
50	101		50	93	
49	102		45	94	
48	103		47	94	
45	104		49	94	
51	104		50	95	
48	105		47	100	
50	105		49	100	
45	106		51	100	
47	106		48	101	
48	107		49	102	