



**Palo Verde
Nuclear Generating Station**
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Tonopah, AZ 85354

102-07366-TNW/MDD
October 26, 2016

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

**Subject: Palo Verde Nuclear Generating Station (PVNGS) Unit 1
Docket No. STN 50-528
License No. NPF-41
Steam Generator Tube Inspection Report - Refueling Outage 19**

Attached please find the PVNGS Unit 1 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 1 nineteenth refueling outage.

By copy of this letter, this submittal is being provided to the NRC Region IV Administrator and the PVNGS Senior Resident Inspector. No commitments are being made to the NRC by this letter.

Should you have questions regarding this submittal, please contact Michael D. DiLorenzo, Licensing Section Leader, at (623) 393-3495.

Sincerely,

Thomas N. Weber
Nuclear Regulatory Affairs Department Leader
TNW/MDD/CJS/af

Attachment
cc: (with attachment)

K. M. Kennedy	NRC Region IV Regional Administrator
S. P. Lingam	NRC NRR Project Manager for PVNGS
C. A. Peabody	NRC Senior Resident Inspector for PVNGS

ADD
NRR

Attachment

**Unit 1 – 19th Refueling Outage
Steam Generator Tube Inspection Report**



Palo Verde Nuclear Generating Station

UNIT 1 U1R19

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UNIT 1

STEAM GENERATOR EDDY CURRENT

U1 R19 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 19th refueling outage in Unit 1 (U1R19) was conducted during April 2016. Mode 4 entry of Unit 1 was entered on May 10, 2016. 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 fifth examination performed in Unit 1 following steam generator replacement in U1R12. This examination is considered a 100% full length tubing inspection.

The examinations resulted in a total of **23** tubes being plugged in SG 11, and **23** tubes being plugged in SG 12. A description of the previous plugging history is noted in Table 2, and Appendix E provides a map of all tubes plugged. It should be noted that the plugging criteria utilized during this outage again supports 2 cycles of operation (next scheduled eddy current examinations are for R21).

2.0 Scope of Examinations Performed

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 was finalized to include 100% bobbin examinations.

This original plan, along with the examinations performed as a result of bobbin indications noted, is summarized in Table 1 of this report.

3.0 Active Degradation Mechanisms

The only degradation noted during the examinations was determined to be wear. Section 8.0 contains further discussions relating to this mechanism. Table 2 summarizes the results into categories and Appendices B and C itemize all indications reported.

4.0 NDE Techniques Utilized

The following table documents the eddy current techniques utilized during this outage:

BOBBIN Examinations								
Damage Mechanism	Location	ETSS NO	QUAL STATUS	Extended Applicability	BC DET	BC SIZE	TECH	Comments
Wear	BWs, VSs, ECs (not dented)	96004.1 R13	SITE VALIDATED Appendix A1	Tube Proximity	Y	Y	Volt DIFF	*Note 1
Tube-to-Tube Wear	Freespan Upper Bundle	13091.1 R0	QUALIFIED Appendix B1	NA	Y	NA	Volt ABS	*Note 1
Wear	Loose Part	27091.2 R2	QUALIFIED Appendix C1	Tubesheet Transition	Y	N	Volt DIFF	*Note 1

ARRAY Examinations								
Damage Mechanism	Location	ETSS NO	QUAL STATUS	Extended Applicability	DET	SIZE	TECH	Comments
Wear	BWs, ECs, VSs	11956.3 R2 11956.4 R2	SITE VALIDATED Appendix D1	NA	Y	Y	X-Probe	*Note 1

RPC Examinations								
Damage Mechanism	Location	ETSS NO	QUAL STATUS	Extended Applicability	DET	SIZE	TECH	Comments
Wear	BWs, ECs, VSs	96910.1	QUALIFIED	NA	NA	Y	+POINT	none
Wear	Tube-to-Tube	21998.1	QUALIFIED	NA	NA	Y	+POINT	none
Wear Note 7	Freespan Loose Part Tube-to-Tube	2790x Series	QUALIFIED	NA	NA	Y	+POINT	*Note 1

Note 1: The U1R19 DA provides details for the qualification and use of these techniques

The eddy current examinations were performed by Westinghouse Electric Company using the Core Star OMNI 200 eddy current instrument. Westinghouse Anser software was utilized to acquire the data along with the Pegasys robotic manipulator. This robot was configured with a dual guide tube in each of the hot and cold legs.

The tubing was examined with Core Star manufactured bobbin coil probes and Zetec array (X-Probe) and rotating coil (RC) style probes. Probe diameters were 0.580" to 0.610". X-Probe and/or Plus Point RC probes were used for the characterization of non-quantifiable or distorted bobbin indications.

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. Areva International, Inc. provided the secondary data analysis.

Each individual from Westinghouse and Areva 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.

5.0 Indication Summary

A detailed listing of the location and measured sizes (when applicable) of the eddy current indications recorded is included in Appendix B and C. A summary of these indication results is located in Table 2. In addition, Appendix A contains a reference drawing of steam generator support locations and report legend.

Appendix D contains a listing of the possible loose part (PLP) indications that were confirmed with rotating coil examinations. Note Section 8.0 for further discussion on the PLPs.

There were no indications that were identified as linear during this outage.

6.0 Tubes Plugged

A summary of the tubes plugged is located in Table 2. A total of 23 tubes in SG 11 and 23 tubes in SG 12 were plugged this outage.

Appendix E contains a map that details the plugged tube location along with the previously plugged tubes.

7.0 Plug History

A summary of the number and percentage of tubes plugged is also located in Table 2.

8.0 Condition Monitoring

Tube Inspection Summary

Per the Steam Generator Program, as defined in PVNGS Procedure 81DP-9RC01, a condition monitoring evaluation was conducted by PVNGS Engineering. The results of the eddy current examinations are provided in Section 5.0. 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 1 Cycles 18 and 19. No tube pulls or in-situ pressure testing were required based on the results of the examinations.

Foreign Object Search and Retrieval (FOSAR)

Prior to and after sludge lancing activities, FOSAR was performed at the tubesheet elevation in the annulus region and the blowdown lane. The applicable requirements of Revision 3 of the EPRI Steam Generator Integrity Assessment Guidelines Section 10.5, Secondary Side Visual Inspections, were applied for the FOSAR inspections. FOSAR was also performed on the Flow Distribution Plate (FDP). No foreign object wear was found in either steam generator 11 or 12. Following is a summary of the foreign objects that were identified in each SG. Sludge rocks and scale and graphite are not discussed, since they are not considered as a threat to tube integrity.

SG11 -Foreign object Summary

Three foreign objects were found during FOSAR in SG 11. The first object was identified during the pre-sludge lance inspection. The object was found near tube R166C89 on the top of the tubesheet cold leg side and was removed via sludge lancing. No tube wear was associated with this object. The second object was a very small bristle that was identified on the top of the tubesheet hot leg side during an in bundle inspection of the kidney region. No tube wear was associated with this object. Due to its size and location in bundle, the object is not judged to be a threat to tube integrity. The third object was identified several tube columns away from the annulus near tubes R61C190, R63C190, R65C190 and R67C190 on the top of the tubesheet cold leg side and was sized with dimensions of 2.25 inches by 0.116 inches by 0.25 inches. No tube wear was associated with this object. Eddy current testing (+point and X probe) was performed in the vicinity of the object it was determined that the object is non-metallic. Based on the location of the object, it is not considered to be in a high flow region and is not judged to be a threat to tube integrity. Per the PVNGS SG Program, trending of these locations will continue in future outages.

SG12 -Foreign object Summary

The only foreign objects found in SG12 were some very small bristles found far in bundle on the top of the tubesheet hot leg side. The bristles were found during a partial in bundle inspection of the kidney region. Due to their size and location, these objects are not judged to be a threat to tube integrity. Per the PVNGS SG Program, trending of these locations will continue in future outages.

Blowdown Patch Plate Weld Inspection Summary

Also included in the scope of the FOSAR effort was an inspection of the blowdown patch plate welds in SG11 and SG12 that were found to be cracked in Unit 2 during 2R15. The inspections confirmed that the weld material in the vicinity of the cracked weld on all 4 patch plates (2 per SG) is intact, and a loose parts concern is not being created. A previous evaluation concluded that, with the presence of the cracked welds, the patch plates in the Unit 2 SGs will continue to perform their design function and that the probability of loose parts being formed is remote. Thus, there is a very

low risk that the cracked welds will affect the structural or leakage integrity of tubes in these steam generators.

Sludge Lancing Summary

Sludge Lancing was performed in 1R19. Little sludge was observed in the tubesheet annulus region and in the blowdown lane of both SGs. A total of 19 lbs of sludge was removed from SG 11 and 15.5 lbs of sludge was removed from SG 12.

Plug Inspections Summary

The EPRI *PWR Steam Generator Examination Guidelines* require that a visual inspection of the previously installed steam generator plugs be performed to assess plug integrity. Additionally, the Examination Guidelines require a verification of the location and presence of existing in-service plugs. The conduct of the plug location and integrity verification was performed in 1R19 per the applicable procedure. A review of the inspection results indicated that all plugs were accounted for and no evidence of potential plug leakage was identified.

Channel Head Inspection Summary

A channel head inspection was also performed in response to Westinghouse Engineering Nuclear Safety Advisory Letter (NSAL) 12-1, dated January 5, 2012. The inspection identified no degradation.

TABLE 1
EXAMINATION SUMMARY

SCOPE DESCRIPTION		SG 11	SG 12
Exam Description	Extents	Scope	Scope
FULL LENGTH BOBBIN	TEC-TEH	11938	10682
COLD LEG BOBBIN	TEC-VS3	554	1791
HOT LEG BOBBIN	TEH-VS3	554	1791
HOT LEG ARRAY	VARIOUS	262	341
COLD LEG ARRAY	VARIOUS	111	94
HOT LEG RC	VARIOUS	20	16
COLD LEG RC	VARIOUS	15	6

Notes:

- 1. ARRAY probe technology utilized the X-Probe**
- 2. RC-rotating coil examinations were performed for historical comparisons**

TABLE 2
INDICATION SUMMARY

DAMAGE MECHANISM	STEAM GENERATOR 11					STEAM GENERATOR 12				
	Tubes	Indications	BW	VS	EC	Tubes	Indications	BW	VS	EC
WEAR										
1% - 19%	561	605	324	219	62	577	624	265	293	66
20% - 29%	53	55	34	15	6	37	40	18	20	2
30% - 39%	5	5	4	1	0	4	4	3	1	0
≥ 40%	0	0	0	0	0	3	3	3	0	0
PLUGGED	(23)					(23)				
Possible Loose Parts (Array Coil)										
PLI	0					0				
PLP	6					1				
PLUGGED	(0)					(0)				
PREVENTATIVE	(0)					(0)				
PLUGGED										
			(23)					(23)		
TOTAL PLUGGED / %			(111 / 0.9%)					(130 / 1.0%)		

NOTES:

1. Numbers in (X) are tubes numbers plugged in each category
2. The "Tubes" column above represents Bobbin Coil results for the number of tubes; using the largest wear indication
3. The "Indications" column above represents Bobbin Coil results for the number of wear indications

LEGEND:

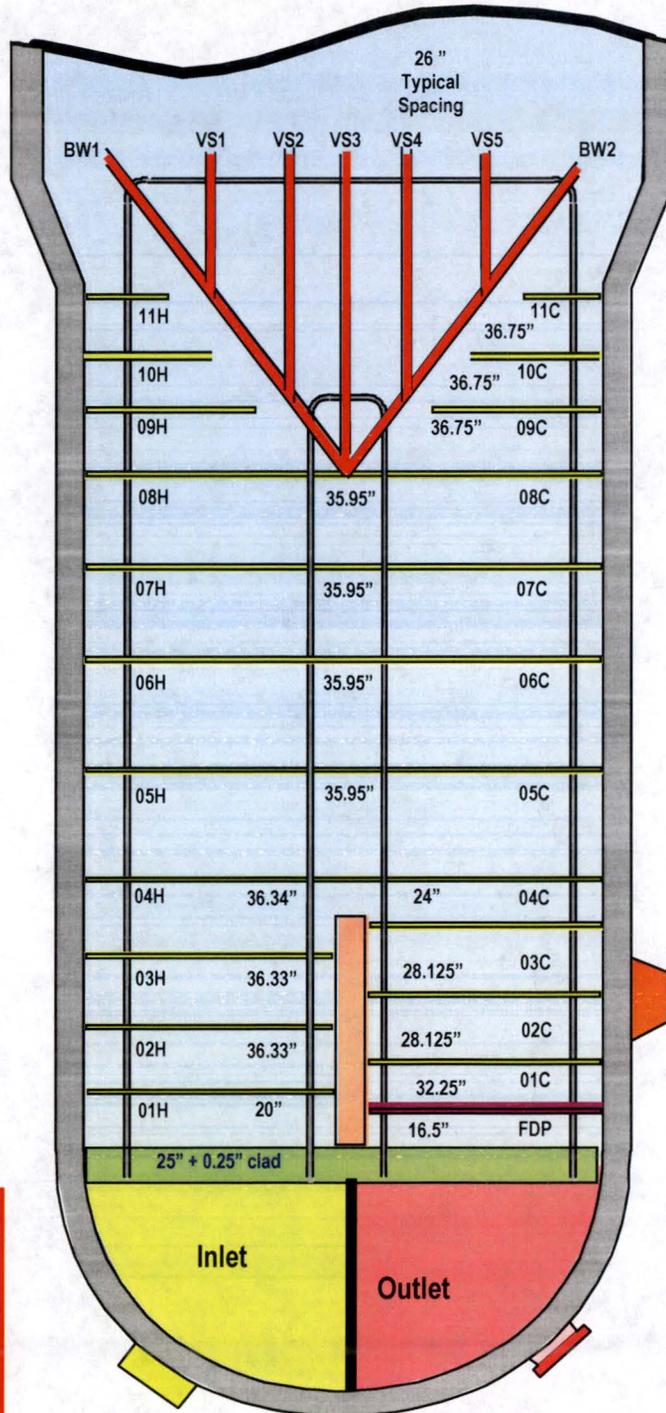
BW – batwing
VS – vertical strap
EC – eggcrate

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 StrapVS1
	#1 BatwingBW1
	#1 Support Plate in Hot Leg01H
	#7 Support Plate in Cold Leg07C
	Top Tube Sheet Cold LegTSC
	Tube End Hot LegTEH
	Tube End Cold LegTEC
CRLN:	Indicates the flaw length, used to identify the length of a wear indication
CRWD:	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
PYPE:	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
Bulge	BLG
Dented Buff Mark	DBM
Deposit	DEP
Dent	DNT
Data Quality Acceptance	DQA
Distorted Support Signal With Indication	DSI
Distorted Top of Tubesheet With Indication	DTI
Geometric Indication	GEO
History Review	HR
ID Chatter	IDC
Indication Not Found	INF
Indication Not Reportable	INR
Multiple Axial Indication	MAI
Manufacturer Burnishing Mark	MBM
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 Bad Data	RBD
Retest Identification Check	RIC
Retest with Magnetic Bias RC Probe	RMB
Single Volumetric Indication	SVI
Senior (Lead) Analysis Review	SR
Sludge	SLG
To Be Plugged	TBP
Volumetric Indication	VOL

Quality Codes:

Cross talk	QCT
Insufficient extent tested	QET
Sudden drift of signal base line	QDO
Less than the required samples	QDR
Quality issue for ADS or RTAA	QDS
System out of balance	QOS
Spiking or parasitic noise	QPN
One or more required channels without signal	QPS
Saturated signals in the tube	QSS
Probe speed varies	QSV
Historical indications not present	QPV
Tube number in question	QTI

APPENDIX B

STEAM GENERATOR 11

SUMMARY DATA SHEETS

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
48	9	.28	83	PCT	10		P2	VS3	-.81		TEH	TEC	.610	SBAY2	204	C	228		
48	13	.11	90	DSI			P1	09C	-.43		TEH	TEC	.610	SBAY2	204	C	184		
50	13	.35	78	PCT	12		P2	VS3	-.81		TEH	TEC	.610	SBAY2	204	C	185		
52	13	.27	78	PCT	10		P2	VS3	-.93		TEH	TEC	.610	SBAY2	204	C	186		
33	14	.27	147	PCT	10		P2	VS3	-.83		TEH	TEC	.610	SBAY2	204	C	160		
61	14	.30	25	PCT	10		P2	BW2	.83		TEH	TEC	.610	SBAY2	204	C	146		
63	14	.47	70	PCT	15		P2	VS4	1.04		TEH	TEC	.610	SBAY2	204	C	145		
83	16	.29	62	PCT	10		P2	VS3	1.01		TEH	TEC	.610	SBAY2	201	C	56		
83	16	.43	63	PCT	13		P2	BW2	-.78		TEH	TEC	.610	SBAY2	201	C	56		
28	17	.32	156	PCT	11		P2	VS3	-.70		TEH	TEC	.610	SBAY2	204	C	125		
67	18	.33	86	PCT	11		P2	BW2	.96		TEH	TEC	.610	SBAY2	204	C	8		
79	18	.27	116	PCT	10		P2	BW1	1.03		TEH	TEC	.610	SBAY2	202	C	78		
98	19	.31	145	PCT	10		P2	BW2	-.87		TEH	TEC	.610	SBAY2	203	C	26		
55	20	.29	60	PCT	10		P2	BW1	1.88		TEH	TEC	.610	SBAY2	203	C	47		
30	21	.27	136	PCT	10		P2	VS3	-.78		TEH	TEC	.610	SBAY2	204	C	77		
34	21	.30	142	PCT	10		P2	VS3	-.75		TEH	TEC	.610	SBAY2	204	C	79		
36	21	.47	106	PCT	15		P2	VS3	-.90		TEH	TEC	.610	SBAY2	204	C	80		
80	21	.50	86	PCT	15		P2	VS4	1.01		VS3	TEC	.610	NBAZ1	230	C	16		
85	22	.43	138	PCT	14		P2	BW2	.75		TEH	TEC	.610	SBAY2	204	C	37		
93	22	.34	123	PCT	11		P2	BW2	.76		TEH	TEC	.610	SBAY2	204	C	33		
97	22	.34	66	PCT	11		P2	BW1	.93		TEH	TEC	.610	SBAY2	204	C	30		
97	22	.28	75	PCT	10		P2	BW2	.90		TEH	TEC	.610	SBAY2	204	C	30		
60	23	.22	105	PCT	8		P2	VS3	-.68		VS3	TEC	.610	NBAZ1	229	C	11		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
70	23	.30	87	PCT	12		P2	VS2	1.00		VS3	TEH	.610	NBAZ1	35	H	5		
90	23	.27	57	PCT	12		P2	VS2	-.97		VS3	TEH	.610	NBAZ1	35	H	15		
94	23	.29	147	PCT	10		P2	BW1	-.84		TEC	TEH	.610	SBAY2	26	H	47		
61	24	.28	133	PCT	12		P2	VS2	-.72		VS3	TEH	.610	NBAZ1	35	H	58		
81	24	.30	152	PCT	10		P2	BW2	.72		VS3	TEC	.610	NBAZ1	230	C	31		
85	24	.33	142	PCT	11		P2	BW2	.84		VS3	TEC	.610	NBAZ1	230	C	29		
87	24	.30	150	PCT	10		P2	BW2	.82		VS3	TEC	.610	NBAZ1	230	C	28		
99	24	.26	92	PCT	10		P2	BW2	.99		TEC	TEH	.610	SBAY2	26	H	43		
101	24	.37	133	PCT	13		P2	BW2	1.01		TEC	TEH	.610	SBAY2	26	H	42		
103	24	.27	97	PCT	10		P2	BW2	.98		TEC	TEH	.610	SBAY2	26	H	41		
107	24	.31	126	PCT	11		P2	BW1	1.03		TEC	TEH	.610	SBAY2	26	H	39		
98	25	.23	147	PCT	11		P2	VS2	.85		TEC	TEH	.610	SBAY1	27	H	48		
81	26	.29	95	PCT	12		P2	VS2	.79		VS3	TEH	.610	NBAZ1	35	H	22		
90	27	.25	85	PCT	11		P2	10H	-.92		VS3	TEH	.610	NBAZ1	35	H	27		
81	28	.34	81	PCT	11		P2	BW2	.86		VS3	TEC	.610	NBAZ1	230	C	56		
87	28	.31	96	PCT	13		P2	VS2	.69		VS3	TEH	.610	NBAZ1	35	H	38		
103	28	.32	94	PCT	11		P2	VS3	-1.02		TEC	TEH	.610	SBAY2	26	H	23		
115	28	.22	141	PCT	10		P2	VS1	.89		TEC	TEH	.610	SBAY1	27	H	13		
86	29	.24	91	PCT	10		P2	VS2	.77		VS3	TEH	.610	NBAZ1	35	H	50		
86	29	.41	122	PCT	16		P2	VS3	.78		VS3	TEH	.610	NBAZ1	35	H	50		
96	29	.36	131	PCT	15		P2	BW2	-.77		TEC	TEH	.610	SBAY1	27	H	29		
106	29	.23	128	PCT	11		P2	VS2	.78		TEC	TEH	.610	SBAY1	27	H	34		
106	29	.21	129	PCT	10		P2	VS4	.74		TEC	TEH	.610	SBAY1	27	H	34		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
112	29	.31	83	PCT	11		P2	BW2	.74		TEC	TEH	.610	SBAY2	26	H	13		
118	29	.31	95	PCT	11		P2	BW2	.86		TEC	TEH	.610	SBAY2	22	H	236		
31	30	.26	114	PCT	9		P2	VS3	.81		TEH	TEC	.610	SBAY2	211	C	79		
45	30	.21	69	PCT	8		P2	BW1	-.88		TEH	TEC	.610	SBAY2	211	C	86		
105	30	.21	69	PCT	10		P2	BW2	-1.04		TEC	TEH	.610	SBAY1	27	H	21		
109	30	.25	102	PCT	11		P2	VS3	-.95		TEC	TEH	.610	SBAY1	27	H	19		
48	31	.31	154	PCT	10		P2	BW1	-1.09		TEH	TEC	.610	SBAY2	213	C	87		
56	31	.34	136	PCT	10		P2	BW1	-1.54		TEH	TEC	.610	SBAY2	213	C	83		
12	33	.26	153	PCT	9		P2	08H	.90		TEH	TEC	.610	SBAY2	209	C	26		
99	34	.22	65	PCT	10		P2	BW2	1.11		TEC	TEH	.610	SBAY1	27	H	68		
117	34	.28	134	PCT	10		P2	VS2	-1.18		TEC	TEH	.610	SBAY2	24	H	175		
90	35	.75	98	PCT	23		P2	10H	-1.00		VS3	TEH	.610	NBAZ1	37	H	195		
109	36	.63	114	PCT	18		P2	VS2	-.99		TEC	TEH	.610	SBAY2	26	H	98		
109	36	.44	132	PCT	14		P2	VS3	.75		TEC	TEH	.610	SBAY2	26	H	98		
86	37	.29	148	PCT	10		P2	VS4	-.84		VS3	TEC	.610	NBAZ1	231	C	15		
116	37	.22	31	PCT	10		P2	BW1	-.49		TEC	TEH	.610	SBAY1	25	H	178		
128	37	.79	113	PCT	21		P2	VS2	.71		TEC	TEH	.610	SBAY2	22	H	232		
128	37	.47	120	PCT	15		P2	VS3	.78		TEC	TEH	.610	SBAY2	22	H	232		
101	38	.24	62	PCT	11		P2	VS2	.63		TEC	TEH	.610	SBAY1	27	H	88		
111	38	.22	144	PCT	10		P2	BW1	1.26		TEC	TEH	.610	SBAY1	27	H	93		
113	38	.97	106	PCT	23		P2	VS2	-.85		TEC	TEH	.610	SBAY2	24	H	169		
113	38	.29	118	PCT	10		P2	VS3	-1.21		TEC	TEH	.610	SBAY2	24	H	169		
115	38	.31	108	PCT	10		P2	VS2	-.99		TEC	TEH	.610	SBAY2	24	H	168		
90	39	.29	52	PCT	10		P2	10H	-1.04		VS3	TEH	.610	NBAZ1	32	H	107		

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
118	39	.30	54	PCT	10		P2	BW2	-1.00		TEC	TEH	.610	SBAY2	24	H	160		
81	40	.35	113	PCT	14		P2	VS2	.53		VS3	TEH	.610	NBAZ1	33	H	117		
115	40	.31	106	PCT	13		P2	VS3	-1.10		TEC	TEH	.610	SBAY1	25	H	174		
90	41	.37	94	PCT	12		P2	10H	-1.22		VS3	TEH	.610	NBAZ1	32	H	103		
108	41	.21	124	PCT	10		P2	BW2	-2.01		TEC	TEH	.610	SBAY1	27	H	95		
63	42	.35	27	PCT	11		P2	BW2	.99		TEH	TEC	.610	SBAY2	201	C	17		
130	43	.29	81	PCT	12		P2	VS2	.93		TEC	TEH	.610	SBAY1	23	H	213		
121	44	1.26	104	PCT	30		P2	VS2	.62		TEC	TEH	.610	SBAY1	25	H	156		
121	44	.48	71	PCT	17		P2	VS3	.80		TEC	TEH	.610	SBAY1	25	H	156		
121	44	.22	31	PCT	10		P2	VS4	-.83		TEC	TEH	.610	SBAY1	25	H	156		
121	44	.25	28	PCT	11		P2	BW2	1.03		TEC	TEH	.610	SBAY1	25	H	156		
121	44			TBP							VS3	TEH	.610	NBAZ1	40	H	23		
125	44	.62	88	PCT	20		P2	VS2	-1.04		TEC	TEH	.610	SBAY1	25	H	154		
137	44	.23	75	PCT	8		P2	VS1	.44		TEC	TEH	.610	SBAY2	22	H	221		
126	45	.23	119	PCT	10		P2	VS2	1.19		TEC	TEH	.610	SBAY1	25	H	147		
119	46	.56	116	PCT	16		P2	VS2	-.90		TEC	TEH	.610	SBAY2	24	H	136		
121	46	.63	110	PCT	17		P2	VS2	-1.04		TEC	TEH	.610	SBAY2	24	H	135		
56	47	.28	145	PCT	10		P2	BW1	-1.75		TEH	TEC	.610	SBAY2	214	C	25		
65	48	.30	127	PCT	12		P2	BW1	.98		VS3	TEH	.610	NBAZ1	33	H	62		
67	48	.22	75	PCT	10		P2	BW1	-.68		VS3	TEH	.610	NBAZ1	33	H	63		
131	48	.40	84	PCT	15		P2	BW2	.96		TEC	TEH	.610	SBAY1	25	H	130		
135	48	.23	89	PCT	10		P2	BW2	1.00		TEC	TEH	.610	SBAY1	25	H	128		
90	49	.30	36	PCT	10		P2	10H	-1.50		VS3	TEH	.610	NBAZ1	32	H	51		
89	50	.28	91	PCT	10		P2	VS2	-.88		VS3	TEH	.610	NBAZ1	32	H	46		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
129	50	.31	72	PCT	10		P2	VS2	-.86		TEC	TEH	.610	SBAY2	24	H	108		
126	51	.28	129	PCT	10		P2	VS3	1.09		TEC	TEH	.610	SBAY2	24	H	97		
126	51	.35	104	PCT	12		P2	VS4	-1.09		TEC	TEH	.610	SBAY2	24	H	97		
130	51	.84	108	PCT	21		P2	VS3	1.01		TEC	TEH	.610	SBAY2	24	H	99		
144	51	.23	83	PCT	10		P2	VS5	-1.22		TEC	TEH	.610	SBAY1	23	H	171		
65	52	.28	123	PCT	13		P2	BW1	.91		TEC	TEH	.610	SBAY1	29	H	29		
123	52	.22	98	PCT	10		P2	VS1	-.90		TEC	TEH	.610	SBAY1	25	H	109		
127	52	.27	68	PCT	12		P2	VS2	.33		TEC	TEH	.610	SBAY1	25	H	107		
135	52	.39	100	PCT	15		P2	VS1	-1.07		TEC	TEH	.610	SBAY1	25	H	103		
102	53	.39	143	PCT	15		P2	BW1	-.66		TEC	TEH	.610	SBAY1	27	H	154		
122	53	.31	130	PCT	13		P2	VS1	.49		TEC	TEH	.610	SBAY1	25	H	91		
122	53	.25	60	PCT	11		P2	VS2	.97		TEC	TEH	.610	SBAY1	25	H	91		
126	53	.37	103	PCT	14		P2	VS3	.97		TEC	TEH	.610	SBAY1	25	H	93		
65	54	.27	72	PCT	10		P2	BW1	1.00		TEH	TEC	.610	SBAY1	227	C	272		
97	54	.21	70	PCT	10		P2	BW2	1.02		TEC	TEH	.610	SBAY1	27	H	161		
107	54	.21	133	PCT	10		P2	BW1	-1.26		TEC	TEH	.610	SBAY1	27	H	166		
111	54	.37	74	PCT	15		P2	VS3	-1.04		TEC	TEH	.610	SBAY1	27	H	168		
113	54	.88	116	PCT	22		P2	VS4	.91		TEC	TEH	.610	SBAY2	24	H	89		
119	54	1.28	114	PCT	27		P2	VS4	.87		TEC	TEH	.610	SBAY2	24	H	86		
127	54	.33	128	PCT	11		P2	VS2	.28		TEC	TEH	.610	SBAY2	24	H	82		
129	54	.40	24	PCT	13		P2	VS1	-.88		TEC	TEH	.610	SBAY2	24	H	81		
143	54	.28	107	PCT	12		P2	VS3	-.84		TEC	TEH	.610	SBAY1	27	H	5		
143	54	.22	128	PCT	10		P2	VS4	.86		TEC	TEH	.610	SBAY1	27	H	5		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
90	55	.27	41	PCT	11		P2	10H	-1.20		VS3	TEH	.610	NBAZ1	37	H	86		
120	55	.44	118	PCT	13		P2	BW1	-1.10		TEC	TEH	.610	SBAY2	24	H	63		
119	56	.24	24	PCT	10		P2	BW1	.60		TEC	TEH	.610	SBAY1	25	H	82		
121	56	.24	42	PCT	10		P2	VS3	.98		TEC	TEH	.610	SBAY1	25	H	81		
133	56	.25	127	PCT	11		P2	11C	-1.71		TEC	TEH	.610	SBAY1	25	H	76		
141	56	.35	143	PCT	11		P2	VS3	-.79		TEH	TEC	.610	SBAY2	216	C	118		
90	57	.99	89	PCT	24		P2	10H	-1.25		VS3	TEH	.610	NBAZ1	38	H	39		
65	58	.30	129	PCT	10		P2	VS3	-.69		TEH	TEC	.610	SBAY2	201	C	8		
93	58	.24	143	PCT	11		P2	VS4	-.83		TEC	TEH	.610	SBAY1	27	H	178		
137	58	.47	152	PCT	14		P2	VS2	.92		TEH	TEC	.610	SBAY2	216	C	138		
62	59	.30	35	PCT	11		P2	BW1	-.85		TEH	TEC	.610	SBAY1	225	C	40		
68	59	.27	53	PCT	10		P2	BW1	-.90		TEH	TEC	.610	SBAY1	227	C	242		
100	59	.31	96	PCT	11		P2	BW1	-.87		TEC	TEH	.610	SBAY2	28	H	8		
132	59	.26	103	PCT	10		P2	11H	-.23		TEH	TEC	.610	SBAY2	217	C	148		
107	60	.25	102	PCT	10		P2	BW1	-1.42		TEC	TEH	.610	SBAY2	28	H	16		
125	60	.25	124	PCT	11		P2	VS1	-.78		TEC	TEH	.610	SBAY1	25	H	59		
137	60	.45	131	PCT	14		P2	VS1	-.84		TEH	TEC	.610	SBAY2	216	C	143		
108	61	.35	142	PCT	15		P2	BW1	-1.75		TEC	TEH	.610	SBAY1	29	H	12		
120	61	.25	53	PCT	11		P2	BW1	-.76		TEC	TEH	.610	SBAY1	25	H	47		
132	61	.22	85	PCT	10		P2	11H	-1.36		TEC	TEH	.610	SBAY1	25	H	53		
152	61	.36	144	PCT	13		P2	BW2	-1.01		TEH	TEC	.610	SBAY2	217	C	91		
133	62	.68	129	PCT	18		P2	11C	-.24		TEC	TEH	.610	SBAY2	24	H	29		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
139	62	.35	59	PCT	11		P2	VS1	-.96		TEC	TEH	.610	SBAY2	24	H	27		
98	63	.28	62	PCT	10		P2	BW1	-.85		TEH	TEC	.610	SBAY1	227	C	146		
100	63	.28	63	PCT	10		P2	BW1	-1.05		TEH	TEC	.610	SBAY1	227	C	145		
132	63	.26	101	PCT	9		P2	11H	-1.75		TEC	TEH	.610	SBAY2	24	H	23		
144	63	.35	57	PCT	13		P2	VS4	-.74		TEH	TEC	.610	SBAY2	217	C	130		
154	63	.24	133	PCT	10		P2	BW2	-.96		TEH	TEC	.610	SBAY2	217	C	89		
95	64	.32	101	PCT	11		P2	BW1	-.78		TEH	TEC	.610	SBAY1	227	C	175		
97	64	.32	120	PCT	11		P2	BW1	1.08		TEH	TEC	.610	SBAY1	227	C	174		
99	64	.30	89	PCT	10		P2	BW1	-.82		TEH	TEC	.610	SBAY1	227	C	173		
113	64	.25	124	PCT	11		P2	BW1	.85		TEC	TEH	.610	SBAY1	25	H	42		
129	64	.95	90	PCT	26		P2	VS3	-.87		TEC	TEH	.610	SBAY1	25	H	34		
153	64	.28	113	PCT	11		P2	VS2	-1.08		TEH	TEC	.610	SBAY2	217	C	106		
118	65	.31	56	PCT	13		P2	BW1	-.80		TEC	TEH	.610	SBAY1	25	H	17		
122	65	.28	50	PCT	12		P2	BW1	-.89		TEC	TEH	.610	SBAY1	25	H	19		
81	66	.29	71	PCT	10		P2	BW1	-.89		TEH	TEC	.610	SBAY1	227	C	121		
103	66	.39	73	PCT	13		P2	BW1	1.00		TEH	TEC	.610	SBAY1	227	C	132		
111	66	.30	133	PCT	10		P2	VS3	.82		TEH	TEC	.610	SBAY1	227	C	136		
149	66	.29	153	PCT	11		P2	VS2	.23		TEH	TEC	.610	SBAY2	217	C	110		
120	67	.29	71	PCT	10		P2	BW1	-1.31		TEC	TEH	.610	SBAY2	22	H	170		
132	67	.43	73	PCT	14		P2	11H	-1.78		TEC	TEH	.610	SBAY2	22	H	176		
25	68	.08	101	NQI			P1	VS3	2.32		TEH	TEC	.610	SBAY1	225	C	128		
115	68	.34	85	PCT	14		P2	VS4	1.05		TEC	TEH	.610	SBAY1	29	H	25		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
129	68	.28	63	PCT	11		P2	VS4	-.93		TEH	TEC	.610	SBAY2	217	C	34		
133	68	.30	96	PCT	11		P2	BW1	-.89		TEH	TEC	.610	SBAY2	217	C	32		
90	69	.36	94	PCT	10		P2	10H	-1.00		TEH	TEC	.610	SBAY2	226	C	79		
130	69	.48	53	PCT	16		P2	VS1	-.71		TEH	TEC	.610	SBAY2	217	C	35		
130	69	.37	117	PCT	13		P2	VS3	.94		TEH	TEC	.610	SBAY2	217	C	35		
47	70	.31	82	PCT	11		P2	BW1	.93		TEH	TEC	.610	SBAY1	227	C	22		
97	70	.44	110	PCT	14		P2	BW1	-.72		TEH	TEC	.610	SBAY1	227	C	77		
119	70	.46	78	PCT	14		P2	VS2	-.89		TEC	TEH	.610	SBAY2	22	H	163		
129	70	.27	61	PCT	10		P2	VS2	-.94		TEC	TEH	.610	SBAY2	22	H	158		
62	71	.24	116	PCT	11		P2	BW1	-.94		TEC	TEH	.610	SBAY1	29	H	27		
90	71	.19	65	PCT	7		P2	10H	-1.11		TEH	TEC	.610	SBAY1	227	C	54		
92	71	.28	105	PCT	11		P2	BW2	-.95		TEH	TEC	.610	SBAY2	217	C	72		
116	71	.27	108	PCT	11		P2	VS2	1.05		TEH	TEC	.610	SBAY2	217	C	58		
126	71	.35	44	PCT	13		P2	BW2	-.82		TEH	TEC	.610	SBAY2	217	C	53		
162	71	.30	132	PCT	10		P2	BW2	.87		TEH	TEC	.610	SBAY2	216	C	78		
73	72	.23	155	NQI			P1	FDP	12.32		TEH	TEC	.610	SBAY2	226	C	54		
73	72	.17	137	NQI			P1	TSC	6.05		TEH	TEC	.610	SBAY2	226	C	54		
73	72	.11	128	NQI			P1	TSC	8.25		TEH	TEC	.610	SBAY2	226	C	54		
157	72	.48	55	PCT	16		P2	VS1	-.75		TEH	TEC	.610	SBAY2	217	C	82		
128	73	.30	141	PCT	10		P2	VS2	.88		TEH	TEC	.610	SBAY2	216	C	54		
41	74	.21	44	PCT	10		P2	VS3	.74		TEC	TEH	.610	SBAY2	2	H	58		
45	74	.21	75	PCT	10		P2	VS3	.68		TEC	TEH	.610	SBAY2	2	H	192		
47	74	.21	39	PCT	10		P2	BW1	.84		TEC	TEH	.610	SBAY2	2	H	155		
59	74	.29	102	PCT	11		P2	BW1	.87		TEC	TEH	.610	SBAY2	1	H	134		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
67	74	.72	136	NQI			P1	TSH	.37		TEC	TEH	.610	SBAY2	5	H	35		
165	74	.24	150	NQI			P1	TSH	.86		TEC	TEH	.610	SBAY2	15	H	115		
34	75	.22	90	PCT	10		P2	BW1	-.87		TEC	TEH	.610	SBAY2	2	H	60		
40	75	.31	90	PCT	13		P2	BW1	-.85		TEC	TEH	.610	SBAY2	2	H	54		
46	75	.21	98	PCT	10		P2	BW1	-1.08		TEC	TEH	.610	SBAY2	2	H	191		
48	75	.25	41	PCT	11		P2	VS3	-1.11		TEC	TEH	.610	SBAY2	2	H	156		
90	75	.34	103	PCT	12		P2	10H	-1.51		TEC	TEH	.610	SBAY2	5	H	103		
134	75	.40	116	PCT	13		P2	BW1	-.60		TEC	TEH	.610	SBAY2	5	H	81		
164	75	.75	75	PCT	21		P2	BW2	-.74		TEC	TEH	.610	SBAY2	15	H	110		
35	76	.21	49	PCT	10		P2	VS3	.75		TEC	TEH	.610	SBAY2	2	H	61		
47	76	.82	93	PCT	24		P2	BW1	.94		TEC	TEH	.610	SBAY2	2	H	190		
103	76	.24	81	PCT	10		P2	BW1	-.80		TEC	TEH	.610	SBAY2	6	H	61		
103	76	.23	151	PCT	10		P2	VS4	.77		TEC	TEH	.610	SBAY2	6	H	61		
163	76	1.29	100	PCT	28		P2	BW2	-.84		TEC	TEH	.610	SBAY2	15	H	108		
165	76	.55	109	PCT	17		P2	BW2	-.79		TEC	TEH	.610	SBAY2	15	H	109		
90	77	.40	78	PCT	14		P2	10H	-1.36		TEC	TEH	.610	SBAY2	6	H	112		
140	77	.26	149	PCT	10		P2	VS1	-.82		TEC	TEH	.610	SBAY2	6	H	87		
164	77	.47	68	PCT	15		P2	BW1	.99		TEC	TEH	.610	SBAY2	15	H	104		
166	77	.31	87	PCT	11		P2	BW2	-.79		TEC	TEH	.610	SBAY2	15	H	103		
125	78	.30	61	PCT	11		P2	VS5	-.88		TEC	TEH	.610	SBAY2	19	H	16		
163	78	.37	93	PCT	13		P2	BW2	.85		TEC	TEH	.610	SBAY2	15	H	101		
30	79	.25	89	PCT	11		P2	VS3	-.84		TEC	TEH	.610	SBAY2	2	H	129		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
38	79	.17	96	PCT	8		P2	VS3	-.90		TEC	TEH	.610	SBAY2	2	H	64		
44	79	.29	117	PCT	12		P2	VS3	-.74		TEC	TEH	.610	SBAY2	2	H	48		
50	79	.24	63	PCT	11		P2	VS3	.78		TEC	TEH	.610	SBAY2	2	H	187		
90	79	.27	85	PCT	10		P2	10H	-1.44		TEC	TEH	.610	SBAY2	5	H	154		
132	79	.21	38	PCT	8		P2	11H	-1.23		TEC	TEH	.610	SBAY2	19	H	22		
47	80	.58	83	PCT	20		P2	BW1	.91		TEC	TEH	.610	SBAY2	2	H	9		
77	80	.23	133	PCT	10		P2	VS4	.60		TEC	TEH	.610	SBAY2	6	H	134		
115	80	.27	94	PCT	11		P2	BW1	1.04		TEC	TEH	.610	SBAY1	20	H	11		
115	80	.27	126	PCT	11		P2	VS1	-.94		TEC	TEH	.610	SBAY1	20	H	11		
167	80	1.23	90	PCT	27		P2	BW2	-.76		TEC	TEH	.610	SBAY2	15	H	94		
32	81	.31	67	PCT	13		P2	BW1	-.84		TEC	TEH	.610	SBAY2	2	H	130		
36	81	.27	105	PCT	10		P2	BW1	-.92		TEC	TEH	.610	SBAY2	1	H	67		
60	81	.56	97	PCT	19		P2	BW1	.78		TEC	TEH	.610	SBAY2	2	H	147		
78	81	.31	146	PCT	12		P2	VS2	.71		TEC	TEH	.610	SBAY2	6	H	171		
82	81	.23	124	PCT	10		P2	VS3	.91		TEC	TEH	.610	SBAY2	6	H	167		
118	81	.27	75	PCT	10		P2	VS1	-.80		TEC	TEH	.610	SBAY2	19	H	150		
120	81	.24	89	PCT	11		P2	BW1	-.84		TEC	TEH	.610	SBAY1	20	H	28		
122	81	.32	59	PCT	13		P2	BW2	.91		TEC	TEH	.610	SBAY1	20	H	27		
124	81	.22	56	PCT	10		P2	BW2	.94		TEC	TEH	.610	SBAY1	20	H	26		
136	81	.38	53	PCT	14		P2	VS2	.86		TEC	TEH	.610	SBAY1	18	H	47		
164	81	.39	46	PCT	13		P2	BW1	.91		TEC	TEH	.610	SBAY2	15	H	88		
168	81	.35	53	PCT	12		P2	BW2	-.68		TEC	TEH	.610	SBAY2	15	H	95		
43	82	.40	110	PCT	13		P2	BW1	.93		TEC	TEH	.610	SBAY2	1	H	47		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
111	82	.27	123	PCT	10		P2	BW1	.77		TEC	TEH	.610	SBAY2	5	H	191		
129	82	.35	101	PCT	13		P2	VS2	-.61		TEC	TEH	.610	SBAY2	19	H	40		
167	82	.38	115	PCT	13		P2	BW1	-.71		TEC	TEH	.610	SBAY2	15	H	82		
167	82	.49	100	PCT	15		P2	BW2	-.84		TEC	TEH	.610	SBAY2	15	H	82		
44	83	.34	131	PCT	12		P2	BW1	-1.02		TEC	TEH	.610	SBAY2	1	H	46		
44	83	.40	117	PCT	14		P2	BW1	.95		TEC	TEH	.610	SBAY2	1	H	46		
48	83	.43	103	PCT	16		P2	BW1	.73		TEC	TEH	.610	SBAY2	2	H	45		
48	83	.22	84	PCT	10		P2	VS3	-1.06		TEC	TEH	.610	SBAY2	2	H	45		
90	83	.26	107	PCT	9		P2	10H	-1.06		TEC	TEH	.610	SBAY2	5	H	205		
142	83	.28	124	PCT	10		P2	VS2	-.86		TEC	TEH	.610	SBAY2	17	H	15		
166	83	.50	58	PCT	16		P2	BW1	.81		TEC	TEH	.610	SBAY2	15	H	80		
43	84	.21	135	PCT	10		P2	BW1	.80		TEC	TEH	.610	SBAY2	2	H	69		
55	84	.34	92	PCT	14		P2	BW1	1.68		TEC	TEH	.610	SBAY2	2	H	182		
83	84	.31	98	PCT	12		P2	VS2	.72		TEC	TEH	.610	SBAY2	6	H	190		
40	85	.26	105	PCT	10		P2	VS3	.85		TEC	TEH	.610	SBAY2	1	H	71		
42	85	.21	65	PCT	10		P2	BW2	.91		TEC	TEH	.610	SBAY2	2	H	111		
52	85	.23	120	PCT	10		P2	BW2	.84		TEC	TEH	.610	SBAY2	2	H	14		
94	85	.30	51	PCT	12		P2	BW1	-.81		TEC	TEH	.610	SBAY2	6	H	214		
126	85	.29	70	PCT	12		P2	BW1	-.92		TEC	TEH	.610	SBAY1	21	H	64		
132	85	.22	154	PCT	10		P2	11C	-1.46		TEC	TEH	.610	SBAY1	21	H	61		
39	86	.61	121	PCT	18		P2	VS3	-1.12		TEC	TEH	.610	SBAY2	1	H	117		
43	86	.36	105	PCT	14		P2	BW1	.82		TEC	TEH	.610	SBAY2	2	H	110		
43	86	.26	125	PCT	11		P2	VS3	.72		TEC	TEH	.610	SBAY2	2	H	110		
45	86	.38	96	PCT	15		P2	BW1	.92		TEC	TEH	.610	SBAY2	2	H	71		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
49	86	.31	118	PCT	11		P2	BW2	-.97		TEC	TEH	.610	SBAY2	1	H	12		
153	86	.33	131	PCT	12		P2	VS2	-.93		TEC	TEH	.610	SBAY2	15	H	208		
42	87	.58	117	PCT	17		P2	BW1	-.83		TEC	TEH	.610	SBAY2	1	H	73		
44	87	.28	114	PCT	12		P2	BW1	.80		TEC	TEH	.610	SBAY2	2	H	109		
46	87	.37	104	PCT	14		P2	BW1	.84		TEC	TEH	.610	SBAY2	2	H	72		
48	87	.46	116	PCT	15		P2	09C	-.98		TEC	TEH	.610	SBAY2	1	H	42		
146	87	.26	117	PCT	10		P2	BW1	-.77		TEC	TEH	.610	SBAY2	15	H	193		
41	88	.46	116	PCT	15		P2	BW1	-.98		TEC	TEH	.610	SBAY2	1	H	116		
43	88	.46	116	PCT	15		P2	BW1	.89		TEC	TEH	.610	SBAY2	1	H	74		
43	88	.39	130	PCT	13		P2	BW2	-.89		TEC	TEH	.610	SBAY2	1	H	74		
45	88	.62	109	PCT	20		P2	BW1	.79		TEC	TEH	.610	SBAY2	2	H	108		
45	88			TBP							VS3	TEH	.610	NBAZ1	40	H	21		
47	88	.27	111	PCT	12		P2	BW1	.88		TEC	TEH	.610	SBAY2	2	H	73		
75	88	.26	123	PCT	10		P2	BW1	.83		TEC	TEH	.610	SBAY2	6	H	238		
75	88	.24	129	PCT	10		P2	VS2	.80		TEC	TEH	.610	SBAY2	6	H	238		
83	88	.26	141	PCT	10		P2	VS2	.64		TEC	TEH	.610	SBAY2	6	H	242		
111	88	.25	87	PCT	10		P2	BW1	-1.15		TEC	TEH	.610	SBAY2	6	H	256		
161	88	.37	76	PCT	13		P2	VS1	-.89		TEC	TEH	.610	SBAY2	15	H	56		
42	89	.56	117	PCT	17		P2	BW1	-1.03		TEC	TEH	.610	SBAY2	1	H	115		
44	89	.62	125	PCT	18		P2	BW1	-1.00		TEC	TEH	.610	SBAY2	1	H	75		
44	89	2.09	111	PCT	36		P2	BW1	.77		TEC	TEH	.610	SBAY2	1	H	75		
44	89			TBP							VS3	TEH	.610	NBAZ1	40	H	22		
46	89	.25	73	PCT	11		P2	BW1	-.95		TEC	TEH	.610	SBAY2	2	H	107		
48	89	.29	144	PCT	12		P2	09H	.82		TEC	TEH	.610	SBAY2	2	H	74		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
82	89	.40	96	PCT	14		P2	BW1	-.84		TEC	TEH	.610	SBAY2	6	H	272		
140	89	.22	91	PCT	10		P2	BW1	.91		TEC	TEH	.610	SBAY1	16	H	64		
142	89	.25	44	PCT	11		P2	BW1	.96		TEC	TEH	.610	SBAY1	16	H	63		
144	89	.24	49	PCT	10		P2	BW1	1.05		TEC	TEH	.610	SBAY1	16	H	62		
144	89	.26	64	PCT	11		P2	BW2	-.60		TEC	TEH	.610	SBAY1	16	H	62		
45	90	.62	88	PCT	18		P2	BW1	.86		TEC	TEH	.610	SBAY2	1	H	76		
167	90	1.16	99	PCT	27		P2	BW2	-.86		TEC	TEH	.610	SBAY2	15	H	42		
167	90	.34	87	PCT	12		P2	BW2	-.13		TEC	TEH	.610	SBAY2	15	H	42		
46	91	.34	142	PCT	12		P2	BW2	-.92		TEC	TEH	.610	SBAY2	1	H	77		
46	91	.27	84	PCT	10		P2	BW2	1.10		TEC	TEH	.610	SBAY2	1	H	77		
48	91	.26	67	PCT	11		P2	VS3	-.87		TEC	TEH	.610	SBAY2	2	H	105		
48	91	.22	42	PCT	10		P2	BW2	.90		TEC	TEH	.610	SBAY2	2	H	105		
48	91	.38	88	PCT	15		P2	09C	-.43		TEC	TEH	.610	SBAY2	2	H	105		
80	91	.75	109	PCT	20		P2	BW1	-.88		TEC	TEH	.610	SBAY2	7	H	44		
82	91	.39	90	PCT	13		P2	VS3	.76		TEC	TEH	.610	SBAY2	7	H	43		
90	91	.17	68	PCT	7		P2	10C	-1.63		TEC	TEH	.610	SBAY2	7	H	39		
126	91	.27	83	PCT	10		P2	VS2	1.00		TEC	TEH	.610	SBAY2	19	H	110		
130	91	.27	50	PCT	10		P2	BW1	1.05		TEC	TEH	.610	SBAY2	19	H	108		
136	91	.28	76	PCT	10		P2	VS1	-.25		TEC	TEH	.610	SBAY2	15	H	173		
45	92	.27	115	PCT	10		P2	BW1	.83		TEC	TEH	.610	SBAY2	1	H	113		
47	92	.71	107	PCT	20		P2	BW1	.77		TEC	TEH	.610	SBAY2	1	H	78		
47	92			TBP							VS3	TEH	.610	NBAZ1	40	H	20		
59	92	.21	75	PCT	10		P2	VS2	-.35		TEC	TEH	.610	SBAY2	2	H	21		
103	92	.25	44	PCT	11		P2	VS2	.71		TEC	TEH	.610	SBAY2	8	H	23		
107	92	.26	100	PCT	11		P2	BW1	-1.82		TEC	TEH	.610	SBAY2	8	H	25		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
113	92	.35	91	PCT	14		P2	VS1	-.82		TEC	TEH	.610	SBAY1	21	H	5		
90	93	.17	40	PCT	8		P2	10H	-1.32		TEC	TEH	.610	SBAY2	8	H	39		
132	93	.74	132	PCT	23		P2	11C	-1.68		TEC	TEH	.610	SBAY1	21	H	17		
168	93	.36	120	PCT	12		P2	BW2	-.85		TEC	TEH	.610	SBAY2	15	H	28		
47	94	.52	99	PCT	16		P2	BW1	.08		TEC	TEH	.610	SBAY2	1	H	111		
47	94	.63	128	PCT	18		P2	BW1	.91		TEC	TEH	.610	SBAY2	1	H	111		
167	94	.52	90	PCT	16		P2	BW2	.79		TEC	TEH	.610	SBAY2	15	H	20		
48	95	.27	49	PCT	10		P2	VS3	-.95		TEC	TEH	.610	SBAY2	1	H	110		
48	95	.78	108	PCT	21		P2	BW2	.93		TEC	TEH	.610	SBAY2	1	H	110		
48	95			TBP							VS3	TEC	.610	NBAZ1	235	C	14		
68	95	.36	99	PCT	12		P2	BW1	-1.25		TEC	TEH	.610	SBAY2	7	H	101		
70	95	.32	146	PCT	11		P2	BW1	-.92		TEC	TEH	.610	SBAY2	7	H	100		
47	96	.32	135	PCT	13		P2	BW1	-.78		TEC	TEH	.610	SBAY2	4	H	23		
49	96	.63	103	PCT	18		P2	BW1	-.80		TEC	TEH	.610	SBAY2	1	H	109		
49	96	.36	124	PCT	12		P2	BW1	.89		TEC	TEH	.610	SBAY2	1	H	109		
127	96	.19	57	PCT	9		P2	VS1	.26		TEC	TEH	.610	SBAY1	21	H	34		
159	96	.24	119	PCT	11		P2	VS2	-.80		TEC	TEH	.610	SBAY1	16	H	28		
48	97	.26	36	PCT	11		P2	BW1	1.94		TEC	TEH	.610	SBAY2	4	H	22		
120	97	.23	51	PCT	10		P2	BW1	-.94		TEC	TEH	.610	SBAY1	21	H	45		
49	98	.32	80	PCT	13		P2	BW1	.96		TEC	TEH	.610	SBAY2	4	H	21		
51	98	.23	121	PCT	9		P2	BW2	-.95		TEC	TEH	.610	SBAY2	1	H	107		
107	98	.43	119	PCT	14		P2	VS4	.80		TEC	TEH	.610	SBAY2	7	H	125		
115	98	.37	107	PCT	13		P2	VS2	-1.00		TEC	TEH	.610	SBAY2	19	H	140		
143	98	.71	53	PCT	21		P2	VS1	.42		TEC	TEH	.610	SBAY2	14	H	185		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
56	99	.24	70	PCT	11		P2	BW1	-1.79		TEC	TEH	.610	SBAY2	2	H	97		
56	99	.55	60	PCT	19		P2	VS3	-.86		TEC	TEH	.610	SBAY2	2	H	97		
110	99	.26	127	PCT	10		P2	BW1	-.60		TEC	TEH	.610	SBAY2	7	H	129		
128	99	.36	78	PCT	13		P2	VS1	1.03		TEC	TEH	.610	SBAY2	19	H	168		
168	99	.22	153	PCT	9		P2	01C	.08		TEC	TEH	.610	SBAY2	14	H	158		
51	100	.21	59	PCT	10		P2	BW1	.88		TEC	TEH	.610	SBAY2	4	H	19		
169	100	.65	95	PCT	19		P2	VS5	.71		TEC	TEH	.610	SBAY2	15	H	134		
171	100	.44	90	PCT	14		P2	02C	-.88		TEC	TEH	.610	SBAY2	15	H	133		
171	100	.72	105	PCT	20		P2	02C	.08		TEC	TEH	.610	SBAY2	15	H	133		
171	100	.36	82	PCT	12		P2	01C	.10		TEC	TEH	.610	SBAY2	15	H	133		
62	101	.35	104	PCT	12		P2	VS3	-.86		TEC	TEH	.610	SBAY2	1	H	28		
106	101	.27	43	PCT	11		P2	BW1	-1.71		TEC	TEH	.610	SBAY2	8	H	129		
118	101	.28	73	PCT	12		P2	BW2	.83		TEC	TEH	.610	SBAY1	21	H	84		
146	101	.38	129	PCT	13		P2	VS2	-1.11		TEC	TEH	.610	SBAY2	13	H	148		
168	101	.81	71	PCT	22		P2	01C	-.97		TEC	TEH	.610	SBAY2	15	H	131		
170	101	.38	80	PCT	13		P2	01C	-.13		TEC	TEH	.610	SBAY2	15	H	132		
170	101	.66	80	PCT	19		P2	01C	.83		TEC	TEH	.610	SBAY2	15	H	132		
115	102	.86	117	PCT	22		P2	VS3	1.16		TEC	TEH	.610	SBAY2	22	H	7		
115	102	.78	114	PCT	21		P2	VS4	-.83		TEC	TEH	.610	SBAY2	22	H	7		
171	102	.39	61	PCT	14		P2	01C	.72		TEC	TEH	.610	SBAY2	14	H	125		
50	103	.41	110	PCT	13		P2	BW1	.85		TEC	TEH	.610	SBAY2	3	H	20		
60	103	.25	45	PCT	11		P2	BW1	-.82		TEC	TEH	.610	SBAY2	2	H	93		
88	103	.32	94	PCT	11		P2	BW1	-.82		TEC	TEH	.610	SBAY2	7	H	189		
128	103	.50	98	PCT	15		P2	VS3	.77		TEC	TEH	.610	SBAY2	22	H	20		
142	103	.42	39	PCT	14		P2	VS4	.95		TEC	TEH	.610	SBAY2	14	H	110		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
150	103	.20	101	PCT	8		P2	10H	-.13		TEC	TEH	.610	SBAY2	14	H	114		
168	103	.43	47	PCT	15		P2	01C	.91		TEC	TEH	.610	SBAY2	14	H	123		
170	103	.40	34	PCT	14		P2	01C	-.70		TEC	TEH	.610	SBAY2	14	H	124		
47	104	.38	86	PCT	15		P2	BW1	-1.08		TEC	TEH	.610	SBAY2	4	H	53		
47	104	.83	100	PCT	24		P2	BW1	.90		TEC	TEH	.610	SBAY2	4	H	53		
47	104			TBP							VS3	TEH	.610	NBAZ1	40	H	19		
49	104	.92	102	PCT	23		P2	BW1	-.95		TEC	TEH	.610	SBAY2	3	H	22		
49	104			TBP							VS3	TEH	.610	NBAZ1	40	H	18		
51	104	.40	121	PCT	13		P2	BW1	.77		TEC	TEH	.610	SBAY2	3	H	18		
121	104	.25	127	PCT	11		P2	BW1	-.89		TEC	TEH	.610	SBAY1	23	H	9		
169	104	1.16	74	PCT	26		P2	BW2	-.76		TEC	TEH	.610	SBAY2	13	H	125		
171	104	.26	134	PCT	10		P2	01C	.78		TEC	TEH	.610	SBAY2	13	H	124		
126	105	.24	35	PCT	11		P2	BW1	-.77		TEC	TEH	.610	SBAY1	23	H	20		
170	105	.39	45	PCT	13		P2	BW2	.88		TEC	TEH	.610	SBAY2	13	H	123		
49	106	1.06	101	PCT	28		P2	BW1	-.97		TEC	TEH	.610	SBAY2	4	H	52		
49	106			TBP							VS3	TEH	.610	NBAZ1	40	H	17		
75	106	.57	93	PCT	17		P2	VS3	-.90		TEC	TEH	.610	SBAY2	7	H	207		
95	106	.26	105	PCT	10		P2	BW1	-.74		TEC	TEH	.610	SBAY2	7	H	217		
171	106	.33	38	PCT	12		P2	01C	.80		TEC	TEH	.610	SBAY2	14	H	88		
50	107	.35	69	PCT	14		P2	BW1	.81		TEC	TEH	.610	SBAY2	4	H	51		
50	107	.25	99	PCT	11		P2	VS3	.75		TEC	TEH	.610	SBAY2	4	H	51		
90	107	.29	31	PCT	12		P2	BW1	-.83		TEC	TEH	.610	SBAY2	7	H	237		
96	107	1.02	111	PCT	25		P2	VS4	-.85		TEC	TEH	.610	SBAY2	7	H	234		
168	107	.46	37	PCT	15		P2	BW1	-.85		TEC	TEH	.610	SBAY2	14	H	86		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
49	108	1.42	107	PCT	32		P2	BW1	.88		TEC	TEH	.610	SBAY2	4	H	54		
49	108			TBP							VS3	TEH	.610	NBAZ1	40	H	14		
51	108	.30	104	PCT	12		P2	BW2	-.74		TEC	TEH	.610	SBAY2	4	H	50		
53	108	1.00	100	PCT	24		P2	VS3	.66		TEC	TEH	.610	SBAY2	3	H	26		
53	108			TBP							VS3	TEH	.610	NBAZ1	40	H	12		
83	108	.28	59	PCT	12		P2	BW1	.85		TEC	TEH	.610	SBAY2	8	H	210		
85	108	.25	34	PCT	11		P2	BW1	.93		TEC	TEH	.610	SBAY2	8	H	211		
46	109	1.66	100	PCT	32		P2	BW1	-.99		TEC	TEH	.610	SBAY2	3	H	51		
46	109	.43	123	PCT	14		P2	BW1	-.81		TEC	TEH	.610	SBAY2	3	H	51		
46	109			TBP							VS3	TEH	.610	NBAZ1	40	H	16		
50	109	.23	110	PCT	10		P2	VS3	.71		TEC	TEH	.610	SBAY2	4	H	55		
52	109	.44	98	PCT	16		P2	VS3	.81		TEC	TEH	.610	SBAY2	4	H	49		
49	110	.75	111	PCT	20		P2	BW1	.96		TEC	TEH	.610	SBAY2	3	H	49		
49	110			TBP							VS3	TEH	.610	NBAZ1	40	H	15		
51	110	.34	58	PCT	14		P2	BW1	.88		TEC	TEH	.610	SBAY2	4	H	56		
53	110	.21	40	PCT	10		P2	BW2	-.88		TEC	TEH	.610	SBAY2	4	H	48		
74	111	.25	39	PCT	10		P2	VS3	.79		TEC	TEH	.610	SBAY2	9	H	61		
138	111	.44	44	PCT	15		P2	VS1	.61		TEC	TEH	.610	SBAY2	14	H	34		
164	111	.35	20	PCT	13		P2	BW1	.77		TEC	TEH	.610	SBAY2	14	H	47		
166	111	.38	66	PCT	14		P2	BW1	-.74		TEC	TEH	.610	SBAY2	14	H	48		
168	111	.39	25	PCT	14		P2	BW1	-.82		TEC	TEH	.610	SBAY2	14	H	49		
168	111	.41	29	PCT	14		P2	BW1	.85		TEC	TEH	.610	SBAY2	14	H	49		
47	112	.45	100	PCT	14		P2	BW1	.96		TEC	TEH	.610	SBAY2	5	H	13		
97	112	.20	111	PCT	9		P2	BW1	-.87		TEC	TEH	.610	SBAY2	10	H	35		
103	112	.29	67	PCT	12		P2	BW1	.96		TEC	TEH	.610	SBAY2	10	H	38		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
151	112	.38	111	PCT	13		P2	11H	-.15		TEC	TEH	.610	SBAY2	13	H	58		
157	112	.35	116	PCT	12		P2	VS2	-.63		TEC	TEH	.610	SBAY2	13	H	55		
165	112	.45	107	PCT	14		P2	BW1	-.86		TEC	TEH	.610	SBAY2	13	H	51		
44	113	.79	118	PCT	21		P2	BW1	-.86		TEC	TEH	.610	SBAY2	5	H	15		
44	113			TBP							VS3	TEH	.610	NBAZ1	40	H	13		
48	113	1.02	100	PCT	26		P2	09C	-1.65		TEC	TEH	.610	SBAY2	6	H	15		
48	113			TBP							VS3	TEC	.610	NBAZ1	235	C	12		
58	113	.29	94	PCT	10		P2	BW1	2.65		TEC	TEH	.610	SBAY2	3	H	31		
132	113	.16	77	PCT	8		P2	11H	-1.60		TEC	TEH	.610	SBAY1	23	H	61		
168	113	.37	108	PCT	12		P2	BW2	-.84		TEC	TEH	.610	SBAY2	13	H	47		
170	113	.28	73	PCT	10		P2	VS2	-.91		TEC	TEH	.610	SBAY2	13	H	48		
43	114	1.33	117	PCT	28		P2	BW2	-.74		TEC	TEH	.610	SBAY2	5	H	16		
43	114			TBP							VS3	TEC	.610	NBAZ1	235	C	11		
47	114	.31	111	PCT	12		P2	BW1	.96		TEC	TEH	.610	SBAY2	6	H	16		
55	114	.26	125	PCT	11		P2	BW1	1.74		TEC	TEH	.610	SBAY2	4	H	60		
57	114	.25	107	PCT	11		P2	BW1	2.09		TEC	TEH	.610	SBAY2	4	H	44		
131	114	.37	97	PCT	12		P2	BW2	1.06		TEC	TEH	.610	SBAY2	22	H	81		
167	114	.47	28	PCT	16		P2	BW2	-.83		TEC	TEH	.610	SBAY2	14	H	16		
42	115	.27	46	PCT	10		P2	BW2	1.01		TEC	TEH	.610	SBAY2	5	H	17		
48	115	.26	140	PCT	10		P2	VS3	.84		TEC	TEH	.610	SBAY2	6	H	13		
50	115	.34	76	PCT	12		P2	BW1	-.93		TEC	TEH	.610	SBAY2	3	H	126		
132	115	.17	33	PCT	6		P2	11H	-1.42		TEC	TEH	.610	SBAY2	22	H	84		
43	116	2.37	106	PCT	38		P2	BW1	.83		TEC	TEH	.610	SBAY2	5	H	9		
43	116	.27	110	PCT	10		P2	BW2	-.84		TEC	TEH	.610	SBAY2	5	H	9		
43	116			TBP							VS3	TEH	.610	NBAZ1	40	H	8		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
45	116	.58	123	PCT	18		P2	BW1	.85		TEC	TEH	.610	SBAY2	6	H	18		
45	116	.38	92	PCT	14		P2	BW2	-.74		TEC	TEH	.610	SBAY2	6	H	18		
47	116	.35	133	PCT	13		P2	BW1	-1.10		TEC	TEH	.610	SBAY2	6	H	12		
49	116	.38	54	PCT	13		P2	BW1	.96		TEC	TEH	.610	SBAY2	3	H	127		
105	116	.23	61	PCT	10		P2	BW1	-1.12		TEC	TEH	.610	SBAY2	10	H	90		
121	116	.27	47	PCT	11		P2	VS2	.74		TEC	TEH	.610	SBAY1	23	H	75		
40	117	.28	90	PCT	10		P2	BW1	-.40		TEC	TEH	.610	SBAY2	5	H	19		
40	117	.33	128	PCT	12		P2	BW2	-.93		TEC	TEH	.610	SBAY2	5	H	19		
46	117	.21	142	PCT	9		P2	BW1	-1.28		TEC	TEH	.610	SBAY2	6	H	11		
46	117	.43	120	PCT	15		P2	BW1	-.73		TEC	TEH	.610	SBAY2	6	H	11		
46	117	.42	130	PCT	15		P2	VS3	.81		TEC	TEH	.610	SBAY2	6	H	11		
48	117	.36	94	PCT	12		P2	09C	-1.21		TEC	TEH	.610	SBAY2	3	H	128		
90	117	.24	59	PCT	10		P2	10H	-1.71		TEC	TEH	.610	SBAY2	10	H	104		
96	117	.27	49	PCT	11		P2	VS2	-.91		TEC	TEH	.610	SBAY2	10	H	102		
140	117	.47	96	PCT	15		P2	VS1	.65		TEC	TEH	.610	SBAY2	11	H	210		
158	117	.32	39	PCT	11		P2	VS3	.92		TEC	TEH	.610	SBAY2	13	H	7		
43	118	.47	90	PCT	16		P2	BW1	-1.01		TEC	TEH	.610	SBAY2	6	H	20		
43	118	.66	93	PCT	20		P2	BW1	.96		TEC	TEH	.610	SBAY2	6	H	20		
43	118			TBP							VS3	TEH	.610	NBAZ1	40	H	11		
45	118	.58	123	PCT	19		P2	BW1	-1.21		TEC	TEH	.610	SBAY2	6	H	10		
47	118	.31	60	PCT	11		P2	BW1	1.01		TEC	TEH	.610	SBAY2	3	H	129		
49	118	.36	65	PCT	12		P2	BW1	.89		TEC	TEH	.610	SBAY2	3	H	123		
97	118	.37	116	PCT	13		P2	BW1	-.82		TEC	TEH	.610	SBAY2	9	H	137		
163	118	.21	55	PCT	10		P2	VS5	.94		TEC	TEH	.610	SBAY2	12	H	201		
165	118	.21	35	PCT	10		P2	VS5	.82		TEC	TEH	.610	SBAY2	12	H	200		

ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
169	118	.46	117	PCT	17		P2	BW2	-.77		TEC	TEH	.610	SBAY2	12	H	198		
40	119	.44	75	PCT	14		P2	BW1	-1.07		TEC	TEH	.610	SBAY2	5	H	7		
42	119	.94	103	PCT	25		P2	BW1	-1.09		TEC	TEH	.610	SBAY2	6	H	21		
42	119			TBP							VS3	TEH	.610	NBAZ1	40	H	10		
48	119	.37	135	PCT	12		P2	BW1	.89		TEC	TEH	.610	SBAY2	3	H	122		
48	119	.37	91	PCT	12		P2	09C	-1.69		TEC	TEH	.610	SBAY2	3	H	122		
90	119	.20	95	PCT	7		P2	10H	-1.23		TEC	TEH	.610	SBAY2	9	H	156		
132	119	.12	56	PCT	5		P2	11H	-.53		TEC	TEH	.610	SBAY2	22	H	106		
132	119	.25	48	PCT	9		P2	BW1	-.77		TEC	TEH	.610	SBAY2	22	H	106		
39	120	1.24	107	PCT	27		P2	BW1	.85		TEC	TEH	.610	SBAY2	5	H	6		
39	120	.88	123	PCT	22		P2	BW2	-.91		TEC	TEH	.610	SBAY2	5	H	6		
39	120			TBP							VS3	TEH	.610	NBAZ1	40	H	7		
41	120	.70	113	PCT	21		P2	BW1	-1.05		TEC	TEH	.610	SBAY2	6	H	22		
41	120	.58	86	PCT	18		P2	BW1	.87		TEC	TEH	.610	SBAY2	6	H	22		
41	120	.46	129	PCT	16		P2	BW2	-.90		TEC	TEH	.610	SBAY2	6	H	22		
41	120			TBP							VS3	TEH	.610	NBAZ1	40	H	9		
43	120	.28	99	PCT	11		P2	BW1	.90		TEC	TEH	.610	SBAY2	6	H	8		
73	120	.24	68	PCT	10		P2	BW1	.91		TEC	TEH	.610	SBAY2	10	H	124		
111	120	.28	75	PCT	12		P2	VS2	-.77		TEC	TEH	.610	SBAY2	10	H	143		
151	120	.32	61	PCT	11		P2	VS1	-.94		TEC	TEH	.610	SBAY2	11	H	199		
38	121	.29	65	PCT	11		P2	BW1	-.96		TEC	TEH	.610	SBAY2	5	H	5		
38	121	.85	115	PCT	22		P2	VS3	.89		TEC	TEH	.610	SBAY2	5	H	5		
38	121			TBP							VS3	TEH	.610	NBAZ1	40	H	6		
40	121	.51	110	PCT	17		P2	BW2	-.79		TEC	TEH	.610	SBAY2	6	H	23		
42	121	.25	117	PCT	10		P2	VS3	.76		TEC	TEH	.610	SBAY2	6	H	7		
42	121	.25	97	PCT	10		P2	BW2	-.74		TEC	TEH	.610	SBAY2	6	H	7		
48	121	.34	110	PCT	13		P2	09C	-1.57		TEC	TEH	.610	SBAY2	4	H	114		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
37	122	.47	120	PCT	15		P2	BW2	-.95		TEC	TEH	.610	SBAY2	3	H	150		
39	122	.23	141	PCT	10		P2	VS3	.78		TEC	TEH	.610	SBAY2	6	H	24		
41	122	.33	129	PCT	13		P2	BW2	-.75		TEC	TEH	.610	SBAY2	6	H	6		
165	122	.46	93	PCT	18		P2	BW2	.98		TEC	TEH	.610	SBAY2	12	H	165		
167	122	.33	61	PCT	14		P2	BW2	1.00		TEC	TEH	.610	SBAY2	12	H	164		
32	123	.40	102	PCT	14		P2	VS3	-.65		TEC	TEH	.610	SBAY2	6	H	40		
34	123	.76	124	PCT	20		P2	BW2	-.78		TEC	TEH	.610	SBAY2	5	H	21		
34	123			TBP							VS3	TEC	.610	NBAZ1	235	C	9		
36	123	.43	60	PCT	14		P2	BW1	1.07		TEC	TEH	.610	SBAY2	3	H	149		
38	123	.24	57	PCT	10		P2	BW1	-1.17		TEC	TEH	.610	SBAY2	6	H	25		
40	123	.25	66	PCT	10		P2	BW1	.95		TEC	TEH	.610	SBAY2	6	H	5		
48	123	.47	77	PCT	17		P2	09C	-1.64		TEC	TEH	.610	SBAY2	4	H	104		
58	123	.29	98	PCT	10		P2	BW1	-.76		TEC	TEH	.610	SBAY2	3	H	87		
108	123	.20	127	PCT	10		P2	BW2	-1.70		TEC	TEH	.610	SBAY2	12	H	45		
152	123	.22	127	PCT	10		P2	VS1	.70		TEC	TEH	.610	SBAY2	12	H	155		
162	123	.21	137	PCT	10		P2	VS5	.85		TEC	TEH	.610	SBAY2	12	H	160		
166	123	.43	42	PCT	17		P2	BW2	.86		TEC	TEH	.610	SBAY2	12	H	162		
31	124	.61	126	PCT	19		P2	BW1	.85		TEC	TEH	.610	SBAY2	6	H	39		
35	124	.78	89	PCT	21		P2	BW1	-.94		TEC	TEH	.610	SBAY2	3	H	148		
35	124	.40	137	PCT	13		P2	BW1	-.28		TEC	TEH	.610	SBAY2	3	H	148		
35	124			TBP							VS3	TEH	.610	NBAZ1	40	H	5		
39	124	.31	39	PCT	13		P2	BW1	-.96		TEC	TEH	.610	SBAY2	4	H	130		
41	124	.32	105	PCT	11		P2	VS3	.75		TEC	TEH	.610	SBAY2	3	H	135		
113	124	.21	106	PCT	10		P2	VS2	.84		TEC	TEH	.610	SBAY1	23	H	116		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
165	124	1.10	106	PCT	26		P2	BW2	-.68		TEC	TEH	.610	SBAY2	11	H	156		
167	124	.40	107	PCT	13		P2	BW2	-.64		TEC	TEH	.610	SBAY2	11	H	155		
128	125	.30	90	PCT	12		P2	BW2	-.80		TEC	TEH	.610	SBAY1	23	H	130		
164	125	1.22	124	PCT	27		P2	BW2	.86		TEC	TEH	.610	SBAY2	11	H	153		
166	125	.90	116	PCT	23		P2	BW2	-.85		TEC	TEH	.610	SBAY2	11	H	154		
25	126	.31	100	PCT	11		P2	BW1	.93		TEC	TEH	.610	SBAY2	5	H	29		
51	126	.26	70	PCT	11		P2	09H	.70		TEC	TEH	.610	SBAY2	4	H	92		
51	126	.22	94	PCT	10		P2	VS3	.74		TEC	TEH	.610	SBAY2	4	H	92		
75	126	.22	45	PCT	11		P2	BW1	.68		TEC	TEH	.610	SBAY2	12	H	66		
79	126	.42	99	PCT	17		P2	BW1	.83		TEC	TEH	.610	SBAY2	12	H	64		
111	126	.23	108	PCT	11		P2	BW2	.81		TEC	TEH	.610	SBAY2	12	H	48		
131	126	.30	57	PCT	10		P2	BW2	.72		TEC	TEH	.610	SBAY2	22	H	147		
145	126	.53	120	PCT	19		P2	VS3	-.89		TEC	TEH	.610	SBAY2	12	H	141		
149	126	.30	74	PCT	13		P2	VS1	.74		TEC	TEH	.610	SBAY2	12	H	139		
165	126	1.05	105	PCT	28		P2	BW2	-.87		TEC	TEH	.610	SBAY2	12	H	128		
24	127	.48	139	PCT	14		P2	BW1	1.08		TEH	TEC	.610	SBAY1	24	C	69		
28	127	.26	53	PCT	10		P2	BW1	.86		TEC	TEH	.610	SBAY2	6	H	36		
88	127	.26	107	PCT	12		P2	BW1	-.80		TEC	TEH	.610	SBAY2	12	H	86		
108	127	.21	111	PCT	10		P2	BW2	2.28		TEC	TEH	.610	SBAY2	12	H	96		
124	127	.40	98	PCT	16		P2	BW2	-.81		TEC	TEH	.610	SBAY2	12	H	105		
146	127	.22	59	PCT	10		P2	VS1	.81		TEC	TEH	.610	SBAY2	12	H	116		
152	127	.24	72	PCT	11		P2	BW2	-.72		TEC	TEH	.610	SBAY2	12	H	119		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
156	127	.24	57	PCT	11		P2	BW2	-.75		TEC	TEH	.610	SBAY2	12	H	121		
158	127	.23	81	PCT	11		P2	BW2	-.83		TEC	TEH	.610	SBAY2	12	H	122		
160	127	.60	64	PCT	20		P2	BW2	-.74		TEC	TEH	.610	SBAY2	12	H	123		
162	127	.67	80	PCT	22		P2	BW2	-.78		TEC	TEH	.610	SBAY2	12	H	124		
39	128	.43	48	PCT	14		P2	BW1	.80		TEC	TEH	.610	SBAY2	3	H	113		
49	128	.30	133	PCT	12		P2	08H	.69		TEC	TEH	.610	SBAY2	4	H	94		
127	128	.28	125	PCT	12		P2	BW2	.83		TEC	TEH	.610	SBAY1	23	H	140		
141	128	.30	49	PCT	11		P2	BW2	1.06		TEC	TEH	.610	SBAY2	11	H	135		
163	128	.80	96	PCT	21		P2	BW2	.91		TEC	TEH	.610	SBAY2	11	H	124		
165	128	.38	99	PCT	15		P2	BW1	-.94		TEC	TEH	.610	SBAY2	12	H	127		
165	128	.55	78	PCT	20		P2	BW2	-.84		TEC	TEH	.610	SBAY2	12	H	127		
90	129	.27	84	PCT	10		P2	10H	-1.00		TEC	TEH	.610	SBAY2	11	H	82		
132	129	.20	74	PCT	8		P2	VS1	.69		TEC	TEH	.610	SBAY2	11	H	104		
152	129	.33	42	PCT	12		P2	BW2	-.82		TEC	TEH	.610	SBAY2	11	H	114		
162	129	.60	106	PCT	18		P2	BW2	.87		TEC	TEH	.610	SBAY2	11	H	119		
13	130	.27	130	PCT	10		P2	BW1	.90		TEH	TEC	.610	SBAY1	23	C	46		
41	130	.28	90	PCT	12		P2	VS3	.84		TEC	TEH	.610	SBAY2	4	H	97		
111	130	.37	98	PCT	11		P2	BW1	.91		TEH	TEC	.610	SBAY2	6	C	253		
129	130	.31	82	PCT	10		P2	VS2	-.68		TEH	TEC	.610	SBAY2	2	C	18		
129	130	.44	81	PCT	13		P2	VS2	.75		TEH	TEC	.610	SBAY2	2	C	18		
159	130	.42	135	PCT	13		P2	BW2	.76		TEH	TEC	.610	SBAY2	2	C	33		
161	130	.62	125	PCT	17		P2	BW2	.82		TEH	TEC	.610	SBAY2	2	C	34		
163	130	.62	133	PCT	17		P2	BW2	.84		TEH	TEC	.610	SBAY2	2	C	35		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
165	130	.57	113	PCT	16		P2	BW2	.85		TEH	TEC	.610	SBAY2	2	C	36		
88	131	.24	127	PCT	10		P2	BW1	-.76		TEH	TEC	.610	SBAY2	7	C	38		
90	131	.11	102	PCT	5		P2	10H	-.99		TEH	TEC	.610	SBAY2	5	C	225		
156	131	.38	93	PCT	12		P2	BW2	-.79		TEH	TEC	.610	SBAY2	2	C	41		
158	131	.35	130	PCT	11		P2	BW2	.77		TEH	TEC	.610	SBAY2	2	C	40		
162	131	.74	50	PCT	19		P2	BW2	.85		TEH	TEC	.610	SBAY2	2	C	38		
164	131	1.23	105	PCT	26		P2	BW2	.89		TEH	TEC	.610	SBAY2	2	C	37		
35	132	.33	114	PCT	12		P2	VS3	.56		TEH	TEC	.610	SBAY2	9	C	106		
87	132	.30	53	PCT	11		P2	BW1	1.00		TEH	TEC	.610	SBAY2	8	C	8		
97	132	.39	90	PCT	14		P2	BW1	-.80		TEH	TEC	.610	SBAY2	5	C	204		
143	132	.36	127	PCT	13		P2	VS4	-.78		TEH	TEC	.610	SBAY2	1	C	23		
163	132	.29	61	PCT	11		P2	BW2	.80		TEH	TEC	.610	SBAY2	1	C	33		
98	133	.30	133	PCT	10		P2	BW1	1.05		TEH	TEC	.610	SBAY2	6	C	235		
118	133	.43	111	PCT	13		P2	BW1	-.77		TEH	TEC	.610	SBAY2	6	C	260		
126	133	.18	96	PCT	8		P2	VS2	1.23		TEH	TEC	.610	SBAY2	1	C	52		
136	133	.12	90	PCT	5		P2	VS1	.95		TEH	TEC	.610	SBAY2	1	C	47		
154	133	.25	148	PCT	10		P2	BW2	-.87		TEH	TEC	.610	SBAY2	1	C	38		
103	134	.32	102	PCT	10		P2	BW1	.99		TEH	TEC	.610	SBAY2	6	C	222		
119	134	.32	72	PCT	11		P2	BW1	1.19		TEH	TEC	.610	SBAY2	8	C	7		
90	135	.24	74	PCT	10		P2	10H	-.99		TEH	TEC	.610	SBAY2	5	C	200		
104	135	.40	78	PCT	14		P2	VS2	.85		TEH	TEC	.610	SBAY2	5	C	193		
12	137	.17	84	PCT	7		P2	05H	.13		TEH	TEC	.610	SBAY1	23	C	37		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
62	137	.28	118	PCT	10		P2	VS3	-.73		TEH	TEC	.610	SBAY2	8	C	55		
90	137	.32	97	PCT	10		P2	10H	-.65		TEH	TEC	.610	SBAY2	6	C	213		
122	137	.48	72	PCT	14		P2	VS1	.89		TEH	TEC	.610	SBAY2	6	C	195		
130	137	.29	97	PCT	11		P2	VS1	.77		TEH	TEC	.610	SBAY2	1	C	89		
154	137	.38	116	PCT	14		P2	BW2	-.91		TEH	TEC	.610	SBAY2	1	C	77		
122	139	.42	83	PCT	13		P2	VS1	.87		TEH	TEC	.610	SBAY2	2	C	141		
140	139	.34	113	PCT	11		P2	BW1	-.78		TEH	TEC	.610	SBAY2	2	C	132		
101	140	.24	104	PCT	10		P2	BW1	1.10		TEH	TEC	.610	SBAY2	5	C	128		
125	140	.26	120	PCT	10		P2	VS1	-.68		TEH	TEC	.610	SBAY2	1	C	94		
125	140	.26	88	PCT	10		P2	VS2	-.78		TEH	TEC	.610	SBAY2	1	C	94		
159	140	.24	105	PCT	10		P2	BW2	.90		TEH	TEC	.610	SBAY2	1	C	111		
152	141	.24	61	PCT	10		P2	BW2	-.82		TEH	TEC	.610	SBAY2	1	C	115		
158	141	.48	123	PCT	16		P2	BW2	-.80		TEH	TEC	.610	SBAY2	1	C	112		
41	142	.33	50	PCT	10		P2	BW1	-.97		TEH	TEC	.610	SBAY2	10	C	215		
101	142	.32	66	PCT	10		P2	VS2	.84		TEH	TEC	.610	SBAY2	6	C	135		
46	143	.24	143	PCT	10		P2	BW1	.74		TEH	TEC	.610	SBAY2	9	C	201		
104	143	.33	127	PCT	12		P2	BW1	-.76		TEH	TEC	.610	SBAY2	5	C	105		
134	143	.31	63	PCT	10		P2	BW2	-.87		TEH	TEC	.610	SBAY2	2	C	172		
119	144	.26	53	PCT	10		P2	BW2	.87		TEH	TEC	.610	SBAY2	5	C	95		
139	144	.28	57	PCT	11		P2	VS1	-.78		TEH	TEC	.610	SBAY2	1	C	138		
141	144	.54	117	PCT	17		P2	VS3	-.95		TEH	TEC	.610	SBAY2	1	C	139		
153	144	.24	127	PCT	10		P2	BW2	.97		TEH	TEC	.610	SBAY2	1	C	145		
44	145	.34	142	PCT	10		P2	VS3	-.74		TEH	TEC	.610	SBAY2	10	C	233		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
84	145	.33	91	PCT	10		P2	VS3	.84		TEH	TEC	.610	SBAY2	6	C	118		
106	145	.33	88	PCT	10		P2	BW1	-1.35		TEH	TEC	.610	SBAY2	6	C	105		
77	146	.25	59	PCT	10		P2	BW1	.93		TEH	TEC	.610	SBAY2	7	C	106		
105	146	.32	93	PCT	10		P2	VS2	.81		TEH	TEC	.610	SBAY2	6	C	90		
123	146	.36	46	PCT	11		P2	VS3	-.84		TEH	TEC	.610	SBAY2	2	C	180		
76	147	.26	56	PCT	10		P2	VS2	.80		TEH	TEC	.610	SBAY2	7	C	122		
86	147	.37	108	PCT	13		P2	VS2	.73		TEH	TEC	.610	SBAY2	5	C	72		
104	147	.32	124	PCT	12		P2	BW1	-.23		TEH	TEC	.610	SBAY2	5	C	64		
114	147	.32	51	PCT	12		P2	BW2	-.90		TEH	TEC	.610	SBAY2	5	C	59		
126	147	.67	118	PCT	20		P2	VS2	1.19		TEH	TEC	.610	SBAY2	1	C	6		
45	148	.31	41	PCT	12		P2	BW1	.90		TEH	TEC	.610	SBAY2	9	C	267		
75	148	.27	50	PCT	10		P2	BW1	.85		TEH	TEC	.610	SBAY2	8	C	114		
99	148	.35	142	PCT	12		P2	BW1	-.80		TEH	TEC	.610	SBAY2	5	C	44		
101	148	.45	97	PCT	15		P2	BW1	-.75		TEH	TEC	.610	SBAY2	5	C	45		
103	148	.25	150	PCT	10		P2	BW1	-.71		TEH	TEC	.610	SBAY2	5	C	46		
109	148	.34	86	PCT	12		P2	BW1	-1.96		TEH	TEC	.610	SBAY2	5	C	49		
115	148	.56	82	PCT	17		P2	VS3	-.75		TEH	TEC	.610	SBAY2	5	C	52		
139	148	.36	81	PCT	13		P2	VS1	.82		TEH	TEC	.610	SBAY2	1	C	163		
141	148	.55	114	PCT	17		P2	VS3	-.76		TEH	TEC	.610	SBAY2	1	C	164		
58	149	.43	143	PCT	14		P2	BW1	.71		TEH	TEC	.610	SBAY2	8	C	123		
62	149	.34	82	PCT	12		P2	VS3	-.86		TEH	TEC	.610	SBAY2	8	C	127		
68	149	.27	98	PCT	10		P2	BW1	-.98		TEH	TEC	.610	SBAY2	8	C	130		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
84	149	.58	122	PCT	16		P2	VS2	.77		TEH	TEC	.610	SBAY2	6	C	71		
140	149	.24	51	PCT	10		P2	BW1	-.85		TEH	TEC	.610	SBAY2	1	C	176		
59	150	.36	63	PCT	12		P2	VS2	-1.10		TEH	TEC	.610	SBAY2	12	C	14		
101	150	.93	100	PCT	22		P2	VS3	-.93		TEH	TEC	.610	SBAY2	6	C	38		
109	150	.25	55	PCT	8		P2	VS3	-.76		TEH	TEC	.610	SBAY2	6	C	42		
70	151	.26	112	PCT	10		P2	VS2	.75		TEH	TEC	.610	SBAY2	7	C	138		
84	151	.33	111	PCT	12		P2	VS2	.72		TEH	TEC	.610	SBAY2	7	C	145		
102	151	.33	76	PCT	10		P2	VS2	.80		TEH	TEC	.610	SBAY2	4	C	39		
148	151	.36	118	PCT	11		P2	11H	.87		TEH	TEC	.610	SBAY2	4	C	17		
35	152	.28	66	PCT	11		P2	BW1	1.02		TEH	TEC	.610	SBAY2	11	C	70		
79	152	.28	69	PCT	10		P2	VS2	-.70		TEH	TEC	.610	SBAY2	8	C	139		
117	152	.46	62	PCT	13		P2	VS3	.99		TEH	TEC	.610	SBAY2	4	C	56		
135	152	.29	51	PCT	11		P2	VS4	-.80		TEH	TEC	.610	SBAY2	3	C	6		
137	152	.54	70	PCT	17		P2	VS4	-.93		TEH	TEC	.610	SBAY2	3	C	7		
132	153	.36	134	PCT	13		P2	11H	-1.72		TEH	TEC	.610	SBAY2	3	C	28		
79	154	.25	56	PCT	10		P2	BW1	1.14		TEH	TEC	.610	SBAY2	7	C	162		
125	154	.34	68	PCT	13		P2	VS3	-.89		TEH	TEC	.610	SBAY2	3	C	58		
68	155	.26	102	PCT	10		P2	BW1	-.92		TEH	TEC	.610	SBAY2	7	C	176		
90	155	.19	94	PCT	7		P2	10H	-.38		TEH	TEC	.610	SBAY2	7	C	187		
104	155	.33	115	PCT	10		P2	BW1	.48		TEH	TEC	.610	SBAY2	4	C	79		
79	156	.27	118	PCT	10		P2	09C	.42		TEH	TEC	.610	SBAY2	8	C	184		
135	156	.46	103	PCT	13		P2	VS2	-.36		TEH	TEC	.610	SBAY2	4	C	102		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
33	158	.29	31	PCT	10		P2	BW1	1.09		TEH	TEC	.610	SBAY2	12	C	129		
75	158	.32	66	PCT	12		P2	VS2	-.84		TEH	TEC	.610	SBAY2	7	C	202		
109	158	.28	134	PCT	11		P2	BW1	-.81		TEH	TEC	.610	SBAY2	3	C	96		
109	158	.49	121	PCT	16		P2	VS4	-.88		TEH	TEC	.610	SBAY2	3	C	96		
119	158	.23	78	PCT	10		P2	BW1	.81		TEH	TEC	.610	SBAY2	3	C	101		
84	159	.32	100	PCT	12		P2	VS2	.75		TEH	TEC	.610	SBAY2	7	C	222		
88	159	.28	66	PCT	11		P2	VS2	.85		TEH	TEC	.610	SBAY2	7	C	224		
86	161	.37	131	PCT	12		P2	VS2	.77		TEH	TEC	.610	SBAY2	8	C	259		
92	161	.28	81	PCT	10		P2	VS2	.71		TEH	TEC	.610	SBAY2	8	C	262		
106	161	.39	122	PCT	14		P2	BW2	-1.42		TEH	TEC	.610	SBAY2	3	C	129		
108	161	.28	125	PCT	11		P2	BW2	-1.85		TEH	TEC	.610	SBAY2	3	C	128		
111	162	.29	86	PCT	11		P2	BW1	.97		TEH	TEC	.610	SBAY2	3	C	138		
117	162	.30	88	PCT	12		P2	BW1	.80		TEH	TEC	.610	SBAY2	3	C	141		
76	163	.30	115	PCT	11		P2	VS2	.78		TEH	TEC	.610	SBAY2	9	C	27		
84	163	.36	126	PCT	13		P2	VS2	.87		TEH	TEC	.610	SBAY2	9	C	31		
122	163	.31	96	PCT	10		P2	VS4	-.72		TEH	TEC	.610	SBAY2	4	C	160		
79	164	.33	142	DSI			P1	09C	.90		TEH	TEC	.610	SBAY2	10	C	9		
115	164	.36	49	PCT	11		P2	BW2	.86		TEH	TEC	.610	SBAY2	4	C	182		
129	164	.48	76	PCT	14		P2	VS1	.89		TEH	TEC	.610	SBAY2	4	C	189		
129	164	.32	50	PCT	10		P2	BW2	.84		TEH	TEC	.610	SBAY2	4	C	189		
100	165	.32	55	PCT	12		P2	VS2	.92		TEH	TEC	.610	SBAY2	3	C	172		
132	165	.66	127	PCT	19		P2	11H	.78		TEH	TEC	.610	SBAY2	3	C	156		
132	165	.26	59	PCT	10		P2	BW1	-.60		TEH	TEC	.610	SBAY2	3	C	156		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
134	165	.27	38	PCT	11		P2	VS3	.93		TEH	TEC	.610	SBAY2	3	C	152		
113	166	.26	43	PCT	10		P2	VS1	-.82		TEH	TEC	.610	SBAY2	3	C	180		
101	168	.45	49	PCT	13		P2	VS3	-1.04		TEH	TEC	.610	SBAY2	4	C	211		
127	168	.32	141	PCT	10		P2	BW1	.96		TEH	TEC	.610	SBAY2	4	C	224		
120	169	.30	136	PCT	12		P2	BW2	-1.06		TEH	TEC	.610	SBAY2	3	C	194		
29	170	.35	74	PCT	13		P2	VS3	.88		TEH	TEC	.610	SBAY1	15	C	92		
113	170	.24	107	PCT	10		P2	BW2	1.02		TEH	TEC	.610	SBAY2	3	C	212		
117	170	.26	62	PCT	10		P2	BW1	.86		TEH	TEC	.610	SBAY2	3	C	214		
119	170	.27	48	PCT	11		P2	VS2	-.60		TEH	TEC	.610	SBAY2	3	C	215		
121	170	.26	60	PCT	10		P2	VS2	.71		TEH	TEC	.610	SBAY2	3	C	216		
125	170	.28	76	PCT	11		P2	BW1	.72		TEH	TEC	.610	SBAY2	3	C	218		
116	171	.31	107	PCT	10		P2	BW1	.99		TEH	TEC	.610	SBAY2	4	C	229		
69	172	.74	65	NQI			P1	VS4	-.36		TEH	TEC	.610	SBAY2	14	C	54		
71	172	.50	120	PCT	14		P2	VS3	-.98		TEH	TEC	.610	SBAY2	14	C	55		
123	172	.21	150	PCT	9		P2	VS3	-1.18		TEH	TEC	.610	SBAY2	3	C	222		
122	173	.28	67	PCT	11		P2	VS4	-.75		TEH	TEC	.610	SBAY2	3	C	223		
84	175	.37	140	PCT	11		P2	VS2	.72		TEH	TEC	.610	SBAY2	14	C	64		
82	177	.26	111	PCT	10		P2	09C	.88		TEH	TEC	.610	SBAY2	13	C	67		
106	177	.28	36	PCT	11		P2	BW2	-.85		TEH	TEC	.610	SBAY2	3	C	250		
108	177	.24	51	PCT	10		P2	BW2	-.88		TEH	TEC	.610	SBAY2	3	C	251		
112	177	.32	83	PCT	12		P2	BW2	-.84		TEH	TEC	.610	SBAY2	5	C	6		
49	178	.21	83	PCT	8		P2	BW1	-.73		TEH	TEC	.610	SBAY2	13	C	85		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
48	179	.17	116	PCT	7		P2	09C	-1.25		TEH	TEC	.610	SBAY2	13	C	134		
104	179	.28	107	PCT	9		P2	BW2	-.94		TEH	TEC	.610	SBAY2	6	C	23		
79	180	.25	81	PCT	10		P2	VS4	-.44		TEH	TEC	.610	SBAY1	23	C	139		
85	180	.27	116	PCT	10		P2	BW1	.88		TEH	TEC	.610	SBAY1	23	C	142		
87	180	.77	122	PCT	21		P2	BW1	.97		TEH	TEC	.610	SBAY1	23	C	143		
87	180	.28	124	PCT	10		P2	09C	.86		TEH	TEC	.610	SBAY1	23	C	143		
89	180	.31	115	PCT	11		P2	BW1	.23		TEH	TEC	.610	SBAY1	23	C	144		
91	180	.25	139	PCT	10		P2	BW1	1.07		TEH	TEC	.610	SBAY1	23	C	145		
95	180	.26	131	PCT	10		P2	BW1	-1.01		TEH	TEC	.610	SBAY1	23	C	147		
56	181	.32	136	PCT	10		P2	VS3	-1.09		TEH	TEC	.610	SBAY1	24	C	82		
8	183	.24	94	PCT	10		P2	BW1	.99		TEH	TEC	.610	SBAY1	19	C	125		
83	184	.31	81	PCT	11		P2	BW1	1.00		TEH	TEC	.610	SBAY1	23	C	103		
10	185	.24	141	PCT	10		P2	BW1	-.94		TEH	TEC	.610	SBAY1	19	C	117		
90	185	.31	138	PCT	10		P2	BW1	-.97		TEH	TEC	.610	SBAY1	24	C	140		
94	185	.32	97	PCT	10		P2	BW1	-.66		TEH	TEC	.610	SBAY1	24	C	138		
85	188	.27	100	PCT	12		P2	09C	.66		TEH	TEC	.610	SBAY1	25	C	32		

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APPENDIX C

STEAM GENERATOR 12

SUMMARY DATA SHEETS

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
22	5	.24	103	PCT	10		P2	BW1	.85		TEH	TEC	.610	SBAY1	224	C	93		
61	10	.25	37	PCT	10		P2	VS3	-.76		TEH	TEC	.610	SBAY2	201	C	204		
55	12	.49	92	PCT	14		P2	BW2	-1.32		TEH	TEC	.610	SBAY2	226	C	7		
92	17	.47	110	PCT	16		P2	VS3	-1.05		TEH	TEC	.610	SBAY2	201	C	124		
98	19	.35	151	NQI			3	TSH	.84		TEH	TEC	.610	SBAY2	201	C	115		
51	22	.27	125	PCT	10		P2	VS3	1.24		TEH	TEC	.610	SBAY1	228	C	16		
107	24	.25	34	PCT	10		P2	VS2	-.70		TEH	TEC	.610	SBAY2	201	C	69		
41	26	.27	49	PCT	10		P2	VS3	1.00		TEH	TEC	.610	SBAY1	228	C	30		
118	31	.30	57	PCT	11		P2	BW1	-1.93		TEH	TEC	.610	SBAY2	203	C	23		
124	33	.91	117	PCT	23		P2	10H	.00		TEH	TEC	.610	SBAY2	203	C	27		
111	34	.25	32	PCT	9		P2	BW2	-.75		TEH	TEC	.610	SBAY2	203	C	165		
61	38	.25	128	PCT	10		P2	09C	.69		TEH	TEC	.610	SBAY2	205	C	5		
65	38	.32	83	PCT	12		P2	BW1	.98		TEH	TEC	.610	SBAY2	205	C	7		
77	38	.26	145	PCT	11		P2	VS4	-.62		TEH	TEC	.610	SBAY2	205	C	13		
99	38	.26	141	PCT	11		P2	BW2	.81		TEH	TEC	.610	SBAY2	205	C	24		
125	38	.42	44	PCT	12		P2	VS2	.70		TEH	TEC	.610	SBAY2	204	C	59		
62	39	.32	129	PCT	12		P2	VS3	.88		TEH	TEC	.610	SBAY2	205	C	61		
86	39	.30	123	PCT	12		P2	VS2	-.67		TEH	TEC	.610	SBAY2	205	C	49		
102	39	.28	147	PCT	11		P2	VS2	-.73		TEH	TEC	.610	SBAY2	205	C	41		
119	40	.56	76	PCT	15		P2	VS2	-.77		TEH	TEC	.610	SBAY2	206	C	192		
125	40	.86	110	PCT	20		P2	VS2	-.91		TEH	TEC	.610	SBAY2	206	C	195		
125	40	1.30	123	PCT	26		P2	VS2	-.58		TEH	TEC	.610	SBAY2	206	C	195		
135	40	.32	47	PCT	11		P2	VS3	-.88		TEH	TEC	.610	SBAY2	203	C	36		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
10	41	.31	57	PCT	11		P2	BW2	-.86		TEH	TEC	.610	SBAY2	216	C	99		
101	42	.35	51	PCT	13		P2	BW1	.93		TEH	TEC	.610	SBAY2	205	C	83		
117	42	.43	118	PCT	15		P2	VS2	-.84		TEH	TEC	.610	SBAY2	205	C	90		
117	42	.28	139	PCT	11		P2	VS4	-.87		TEH	TEC	.610	SBAY2	205	C	90		
32	43	.21	126	PCT	7		P2	VS3	-.84		TEH	TEC	.610	SBAY1	229	C	149		
92	43	.28	123	PCT	11		P2	BW1	-.94		TEH	TEC	.610	SBAY2	205	C	103		
94	43	.31	116	PCT	12		P2	BW1	-.63		TEH	TEC	.610	SBAY2	205	C	102		
102	43	.35	122	PCT	13		P2	BW1	-.81		TEH	TEC	.610	SBAY2	205	C	98		
122	43	.29	153	PCT	11		P2	VS1	.53		TEH	TEC	.610	SBAY2	205	C	194		
122	43	.66	129	PCT	20		P2	VS2	.90		TEH	TEC	.610	SBAY2	205	C	194		
122	43	.43	117	PCT	15		P2	VS3	.94		TEH	TEC	.610	SBAY2	205	C	194		
128	43	.34	127	PCT	13		P2	VS1	-.85		TEH	TEC	.610	SBAY2	205	C	191		
130	43	.49	143	PCT	17		P2	BW2	-.77		TEH	TEC	.610	SBAY2	205	C	190		
75	44	.87	78	PCT	21		P2	VS3	-.71		TEH	TEC	.610	SBAY2	206	C	76		
85	44	.28	93	PCT	9		P2	VS2	.70		TEH	TEC	.610	SBAY2	206	C	81		
123	44	.39	79	PCT	12		P2	VS2	.78		TEH	TEC	.610	SBAY2	206	C	205		
139	44	.28	38	PCT	10		P2	BW1	.92		TEH	TEC	.610	SBAY2	203	C	40		
120	45	.46	80	PCT	14		P2	VS4	-.87		TEH	TEC	.610	SBAY2	206	C	216		
124	45	.69	94	PCT	18		P2	VS2	.87		TEH	TEC	.610	SBAY2	206	C	214		
81	46	.26	146	PCT	11		P2	VS2	-.73		TEH	TEC	.610	SBAY2	205	C	130		
72	47	.28	127	PCT	11		P2	VS3	-.89		TEH	TEC	.610	SBAY2	205	C	172		
110	47	.33	143	PCT	13		P2	BW1	-.76		TEH	TEC	.610	SBAY2	205	C	153		
122	47	.49	136	PCT	17		P2	VS3	-.64		TEH	TEC	.610	SBAY2	205	C	211		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
51	48	.28	58	PCT	12		P2	VS3	.89		TEH	TEC	.610	SBAY2	235	C	8		
131	48	.37	95	PCT	12		P2	VS2	-.65		TEH	TEC	.610	SBAY2	206	C	226		
130	49	.73	91	PCT	18		P2	VS1	-.68		TEH	TEC	.610	SBAY2	206	C	232		
130	49	1.11	106	PCT	24		P2	VS3	-.67		TEH	TEC	.610	SBAY2	206	C	232		
146	49	.35	56	PCT	12		P2	BW1	.85		TEH	TEC	.610	SBAY2	203	C	63		
115	50	.30	92	PCT	10		P2	VS3	-.71		TEH	TEC	.610	SBAY2	208	C	237		
137	50	.36	57	PCT	12		P2	VS1	-.88		TEH	TEC	.610	SBAY2	207	C	10		
105	52	.33	48	PCT	12		P2	VS2	-.78		TEH	TEC	.610	SBAY2	211	C	46		
143	52	.28	61	PCT	9		P2	VS3	.62		TEH	TEC	.610	SBAY2	204	C	112		
38	53	.26	19	PCT	10		P2	VS3	-.76		TEH	TEC	.610	SBAY2	213	C	86		
124	53	.31	63	PCT	11		P2	VS1	-.83		TEH	TEC	.610	SBAY2	207	C	202		
124	53	.38	66	PCT	13		P2	VS2	.89		TEH	TEC	.610	SBAY2	207	C	202		
128	53	.70	95	PCT	19		P2	VS1	-.87		TEH	TEC	.610	SBAY2	207	C	204		
128	53	.93	121	PCT	23		P2	VS3	.79		TEH	TEC	.610	SBAY2	207	C	204		
115	54	.57	70	PCT	15		P2	VS2	-.78		TEH	TEC	.610	SBAY2	208	C	216		
127	54	.56	97	PCT	15		P2	VS3	.93		TEH	TEC	.610	SBAY2	208	C	210		
127	54	.32	80	PCT	10		P2	VS4	-.84		TEH	TEC	.610	SBAY2	208	C	210		
145	54	.27	93	PCT	9		P2	VS2	.13		TEH	TEC	.610	SBAY2	204	C	110		
114	55	.34	74	PCT	11		P2	VS2	-.71		TEH	TEC	.610	SBAY2	208	C	194		
114	55	.48	120	PCT	14		P2	VS3	-.88		TEH	TEC	.610	SBAY2	208	C	194		
116	55	.37	80	PCT	11		P2	VS2	-.72		TEH	TEC	.610	SBAY2	208	C	195		
130	55	.32	40	PCT	10		P2	VS2	-.76		TEH	TEC	.610	SBAY2	208	C	204		
101	56	.30	37	PCT	12		P2	BW1	1.08		TEH	TEC	.610	SBAY2	209	C	269		
113	56	.40	49	PCT	14		P2	VS2	-.74		TEH	TEC	.610	SBAY2	209	C	275		
78	57	.32	44	PCT	12		P2	VS2	-.71		TEH	TEC	.610	SBAY2	209	C	240		

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
118	57	.41	125	PCT	14		P2	VS2	.94		TEH	TEC	.610	SBAY2	207	C	177		
92	59	.41	41	PCT	12		P2	BW1	-.68		TEH	TEC	.610	SBAY2	210	C	184		
118	59	.41	105	PCT	12		P2	BW2	.32		TEH	TEC	.610	SBAY2	208	C	169		
125	60	.36	78	PCT	12		P2	VS4	.68		TEH	TEC	.610	SBAY2	207	C	169		
135	60	.26	104	PCT	10		P2	VS3	-.94		TEH	TEC	.610	SBAY2	207	C	164		
135	60	.40	98	PCT	14		P2	VS3	.62		TEH	TEC	.610	SBAY2	207	C	164		
48	61	1.15	105	PCT	27		P2	09C	-1.47		TEH	TEC	.610	SBAY2	213	C	12		
60	61	.33	85	PCT	13		P2	BW1	-.74		TEH	TEC	.610	SBAY2	209	C	195		
45	62	.33	93	PCT	11		P2	BW1	-.68		TEH	TEC	.610	SBAY2	212	C	152		
147	62	.35	100	PCT	12		P2	VS2	.78		TEH	TEC	.610	SBAY2	207	C	36		
147	62	.97	107	PCT	24		P2	VS3	-.83		TEH	TEC	.610	SBAY2	207	C	36		
120	63	.80	73	PCT	19		P2	VS2	-.76		TEH	TEC	.610	SBAY2	208	C	139		
150	63	1.10	97	PCT	25		P2	VS1	.88		TEH	TEC	.610	SBAY2	207	C	23		
85	64	.24	36	PCT	10		P2	VS2	-.73		TEH	TEC	.610	SBAY2	209	C	154		
136	65	.43	77	PCT	14		P2	VS3	.73		TEH	TEC	.610	SBAY2	207	C	128		
146	65	.32	60	PCT	10		P2	VS3	.95		TEH	TEC	.610	SBAY2	208	C	43		
39	66	.28	93	PCT	10		P2	08C	.74		TEH	TEC	.610	SBAY2	212	C	112		
47	66	.43	95	PCT	13		P2	VS3	-.69		TEH	TEC	.610	SBAY2	212	C	116		
147	66	.40	53	PCT	12		P2	VS3	-.94		TEH	TEC	.610	SBAY2	208	C	42		
159	66	.27	136	PCT	10		P2	BW2	.75		TEH	TEC	.610	SBAY2	203	C	82		
120	67	.52	65	PCT	15		P2	VS2	-.69		TEH	TEC	.610	SBAY2	208	C	104		
9	68	.26	65	PCT	11		P2	BW2	1.24		TEH	TEC	.610	SBAY2	215	C	30		
113	68	.24	40	PCT	10		P2	BW1	.72		TEH	TEC	.610	SBAY2	209	C	112		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
147	68	.20	56	PCT	8		P2	VS3	-.83		TEH	TEC	.610	SBAY2	207	C	100		
159	68	.36	102	PCT	12		P2	BW2	.75		TEH	TEC	.610	SBAY2	203	C	93		
36	69	.28	65	PCT	10		P2	VS3	-.73		TEH	TEC	.610	SBAY2	211	C	97		
118	69	.61	90	PCT	18		P2	VS3	.88		TEH	TEC	.610	SBAY2	207	C	85		
122	69	.31	59	PCT	11		P2	BW1	-.82		TEH	TEC	.610	SBAY2	207	C	86		
138	69	.26	55	PCT	10		P2	VS1	.83		TEH	TEC	.610	SBAY2	207	C	94		
140	69	.33	61	PCT	12		P2	VS1	-.69		TEH	TEC	.610	SBAY2	207	C	95		
41	70	.10	150	NQI			3	BW1	11.02		TEH	TEC	.610	SBAY2	212	C	78		
127	70	.39	47	PCT	12		P2	VS1	-.85		TEH	TEC	.610	SBAY2	208	C	92		
6	71	.67	22	NQI			3	TSH	10.69		TEH	TEC	.610	SBAY2	216	C	8		
44	71	.35	32	PCT	11		P2	VS3	.92		TEH	TEC	.610	SBAY2	212	C	58		
46	71	.36	95	PCT	12		P2	VS3	1.00		TEH	TEC	.610	SBAY2	212	C	57		
140	71	1.49	113	PCT	28		P2	VS2	-.92		TEH	TEC	.610	SBAY2	208	C	75		
154	71	.26	31	PCT	9		P2	VS3	.96		TEH	TEC	.610	SBAY2	208	C	32		
162	71	.28	61	PCT	10		P2	BW1	-.75		TEH	TEC	.610	SBAY2	203	C	88		
113	72	.25	61	PCT	10		P2	BW1	-.81		TEH	TEC	.610	SBAY2	209	C	56		
123	72	.41	64	PCT	14		P2	VS3	-.73		TEH	TEC	.610	SBAY2	207	C	78		
163	72	.28	88	PCT	10		P2	BW2	-.75		TEH	TEC	.610	SBAY2	203	C	89		
30	73	.27	30	PCT	10		P2	08C	.57		TEH	TEC	.610	SBAY2	211	C	66		
40	73	.36	40	PCT	13		P2	08C	.83		TEH	TEC	.610	SBAY2	211	C	61		
46	73	.55	80	PCT	17		P2	08H	.45		TEH	TEC	.610	SBAY2	211	C	58		
104	73	.78	87	PCT	22		P2	VS3	.97		TEH	TEC	.610	SBAY2	209	C	9		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
140	73	.35	61	PCT	12		P2	VS1	-.86		TEH	TEC	.610	SBAY2	207	C	58		
156	73	.39	116	PCT	12		P2	VS2	-.62		TEH	TEC	.610	SBAY2	208	C	34		
160	73	.71	113	PCT	18		P2	BW2	.75		TEH	TEC	.610	SBAY2	204	C	91		
119	74	.42	24	PCT	13		P2	VS3	-.84		TEC	TEH	.610	SBAY2	15	H	45		
129	74	.45	37	PCT	13		P2	VS1	-.82		TEC	TEH	.610	SBAY2	15	H	40		
156	75	.82	73	PCT	19		P2	VS1	.92		TEC	TEH	.610	SBAY2	9	H	48		
156	75	.33	135	PCT	10		P2	VS2	.79		TEC	TEH	.610	SBAY2	9	H	48		
160	75	.34	36	PCT	10		P2	VS3	.86		TEC	TEH	.610	SBAY2	9	H	50		
162	75	.37	151	PCT	11		P2	BW1	-.89		TEC	TEH	.610	SBAY2	9	H	51		
162	75	.35	151	PCT	10		P2	VS4	.78		TEC	TEH	.610	SBAY2	9	H	51		
164	75	.53	116	PCT	14		P2	BW2	-.83		TEC	TEH	.610	SBAY2	9	H	52		
137	76	.49	135	PCT	15		P2	VS3	-1.13		TEC	TEH	.610	SBAY2	10	H	33		
159	76	.29	41	PCT	10		P2	BW2	.72		TEC	TEH	.610	SBAY2	10	H	22		
161	76	.20	91	PCT	7		P2	BW1	-.90		TEC	TEH	.610	SBAY2	10	H	21		
24	77	.40	67	PCT	12		P2	08C	-.91		TEC	TEH	.610	SBAY2	1	H	6		
30	77	.27	114	PCT	9		P2	08C	.92		TEC	TEH	.610	SBAY2	2	H	13		
46	77	.50	125	PCT	13		P2	BW1	.86		TEC	TEH	.610	SBAY2	5	H	11		
48	77	.28	71	PCT	9		P2	09C	-1.73		TEC	TEH	.610	SBAY2	5	H	45		
90	77	.29	56	PCT	10		P2	BW1	-.90		VS3	TEH	.610	NBAZ1	24	H	23		
114	77	.30	134	PCT	10		P2	VS2	-.78		TEC	TEH	.610	SBAY2	16	H	82		
130	77	.36	119	PCT	11		P2	VS3	.76		TEC	TEH	.610	SBAY2	16	H	90		
27	78	.64	53	PCT	17		P2	BW1	-1.03		TEC	TEH	.610	SBAY2	1	H	10		
41	78	.31	141	PCT	10		P2	BW2	-.83		TEC	TEH	.610	SBAY2	3	H	47		

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
47	78	.72	125	PCT	17		P2	BW1	.81		TEC	TEH	.610	SBAY2	5	H	12		
30	79	.34	153	PCT	11		P2	BW1	-.36		TEC	TEH	.610	SBAY2	1	H	13		
30	79	.30	59	PCT	10		P2	BW2	-.88		TEC	TEH	.610	SBAY2	1	H	13		
40	79	.30	46	PCT	10		P2	BW2	-.68		TEC	TEH	.610	SBAY2	3	H	38		
46	79	.38	113	PCT	12		P2	BW1	-.98		TEC	TEH	.610	SBAY2	4	H	54		
76	79	.45	107	PCT	13		P2	VS3	-.81		VS3	TEH	.610	NBAZ1	23	H	60		
88	79	.40	141	PCT	12		P2	BW1	-.92		VS3	TEH	.610	NBAZ1	23	H	54		
116	79	.24	52	PCT	8		P2	VS2	-.85		TEC	TEH	.610	SBAY2	15	H	109		
31	80	.64	146	PCT	17		P2	BW2	-.88		TEC	TEH	.610	SBAY2	1	H	14		
33	80	.40	131	PCT	12		P2	BW1	.83		TEC	TEH	.610	SBAY2	2	H	97		
35	80	.35	30	PCT	11		P2	BW1	1.02		TEC	TEH	.610	SBAY2	2	H	22		
35	80	.35	41	PCT	11		P2	BW2	-.91		TEC	TEH	.610	SBAY2	2	H	22		
41	80	.99	108	PCT	21		P2	BW2	-.83		TEC	TEH	.610	SBAY2	3	H	37		
41	80			TBP							TEH	TEC	.610	SBAY2	234	C	27		
43	80	.46	47	PCT	13		P2	BW2	-.82		TEC	TEH	.610	SBAY2	3	H	59		
49	80	.33	81	PCT	10		P2	08H	.81		TEC	TEH	.610	SBAY2	5	H	14		
105	80	.30	113	PCT	10		P2	VS3	-.95		TEC	TEH	.610	SBAY2	16	H	104		
163	80	.32	90	PCT	11		P2	BW2	.89		TEC	TEH	.610	SBAY2	10	H	56		
34	81	.24	88	PCT	8		P2	08C	.86		TEC	TEH	.610	SBAY2	2	H	98		
58	81	.49	49	PCT	13		P2	BW1	1.02		TEC	TEH	.610	SBAY2	5	H	56		
162	81	.28	44	PCT	10		P2	BW2	.92		TEC	TEH	.610	SBAY2	10	H	87		
164	81	.28	144	PCT	10		P2	BW2	.87		TEC	TEH	.610	SBAY2	10	H	88		
168	81	.39	99	PCT	13		P2	BW2	-.85		TEC	TEH	.610	SBAY2	10	H	90		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
35	82	.50	99	PCT	14		P2	BW1	.90		TEC	TEH	.610	SBAY2	2	H	99		
75	82	.67	125	PCT	17		P2	VS2	.50		VS3	TEH	.610	NBAZ1	23	H	72		
87	82	.33	95	PCT	10		P2	BW1	-.77		VS3	TEH	.610	NBAZ1	23	H	78		
48	83	.76	122	PCT	19		P2	09C	-1.21		TEC	TEH	.610	SBAY2	4	H	39		
52	83	.43	110	PCT	12		P2	BW1	-.82		TEC	TEH	.610	SBAY2	5	H	17		
168	83	.38	105	PCT	11		P2	BW2	-.91		TEC	TEH	.610	SBAY2	9	H	125		
47	84	.91	62	PCT	20		P2	BW2	.95		TEC	TEH	.610	SBAY2	3	H	64		
47	84			TBP							TEH	TEC	.610	SBAY2	234	C	28		
49	84	.51	135	PCT	14		P2	08H	.81		TEC	TEH	.610	SBAY2	4	H	38		
121	84	.28	115	PCT	9		P2	VS3	-1.09		TEC	TEH	.610	SBAY2	16	H	134		
163	84	.46	131	PCT	14		P2	VS5	.85		TEC	TEH	.610	SBAY2	10	H	94		
48	85	.29	120	PCT	9		P2	09C	-.82		TEC	TEH	.610	SBAY2	3	H	61		
116	85	.34	139	PCT	11		P2	BW1	-.99		TEC	TEH	.610	SBAY1	20	H	19		
132	85	.11	147	PCT	5		P2	11H	-.40		TEC	TEH	.610	SBAY2	10	H	110		
47	86	.85	117	PCT	20		P2	VS3	-1.01		TEC	TEH	.610	SBAY2	3	H	31		
47	86	.43	151	PCT	13		P2	BW2	.02		TEC	TEH	.610	SBAY2	3	H	31		
47	86	1.44	110	PCT	26		P2	BW2	1.02		TEC	TEH	.610	SBAY2	3	H	31		
47	86			TBP							TEH	TEC	.610	SBAY2	234	C	26		
57	86	.26	89	PCT	8		P2	VS3	1.00		TEC	TEH	.610	SBAY2	5	H	36		
117	86	.33	79	PCT	10		P2	BW1	-.70		TEC	TEH	.610	SBAY1	19	H	34		
119	86	.38	146	PCT	12		P2	BW1	1.00		TEC	TEH	.610	SBAY1	19	H	33		
161	86	.33	38	PCT	10		P2	VS2	.56		TEC	TEH	.610	SBAY2	9	H	130		
90	87	.22	64	PCT	7		P2	10H	-.26		VS3	TEH	.610	NBAZ1	23	H	112		
118	87	.78	120	PCT	19		P2	VS3	.82		TEC	TEH	.610	SBAY1	19	H	58		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
43	88	.83	112	PCT	20		P2	BW1	-.68		TEC	TEH	.610	SBAY2	2	H	30		
43	88			TBP							TEH	TEC	.610	SBAY2	234	C	25		
125	88	.76	126	PCT	19		P2	VS1	.70		TEC	TEH	.610	SBAY1	20	H	30		
133	88	.40	139	PCT	12		P2	11H	-1.00		TEC	TEH	.610	SBAY2	13	H	209		
141	88	.45	119	PCT	13		P2	VS1	.36		TEC	TEH	.610	SBAY2	13	H	205		
42	89	1.11	97	PCT	23		P2	BW2	-.94		TEC	TEH	.610	SBAY2	2	H	106		
42	89			TBP							TEH	TEC	.610	SBAY2	234	C	24		
46	89	.49	60	PCT	14		P2	BW1	-.88		TEC	TEH	.610	SBAY2	2	H	53		
48	89	.57	79	PCT	15		P2	BW1	-.84		TEC	TEH	.610	SBAY2	2	H	73		
48	89	.42	82	PCT	12		P2	VS3	-1.07		TEC	TEH	.610	SBAY2	2	H	73		
48	89	.27	66	PCT	9		P2	09C	-1.31		TEC	TEH	.610	SBAY2	2	H	73		
50	89	.32	128	PCT	10		P2	VS3	.89		TEC	TEH	.610	SBAY2	3	H	28		
160	89	.50	66	PCT	15		P2	VS1	.81		TEC	TEH	.610	SBAY2	10	H	140		
43	90	.53	88	PCT	15		P2	BW1	1.04		TEC	TEH	.610	SBAY2	2	H	107		
43	90	1.71	107	PCT	29		P2	BW2	-.84		TEC	TEH	.610	SBAY2	2	H	107		
43	90			TBP							TEH	TEC	.610	SBAY2	234	C	23		
45	90	.36	75	PCT	11		P2	VS3	-.98		TEC	TEH	.610	SBAY2	2	H	32		
45	90	.79	95	PCT	19		P2	VS3	-.29		TEC	TEH	.610	SBAY2	2	H	32		
51	90	.30	148	PCT	10		P2	BW1	.91		TEC	TEH	.610	SBAY2	3	H	27		
51	90	.30	147	PCT	10		P2	VS3	.84		TEC	TEH	.610	SBAY2	3	H	27		
113	90	.56	129	PCT	15		P2	VS2	.69		TEC	TEH	.610	SBAY1	19	H	73		
113	90	.36	127	PCT	11		P2	VS4	.86		TEC	TEH	.610	SBAY1	19	H	73		
44	91	8.44	85	PCT	55		P2	BW1	.82		TEC	TEH	.610	SBAY2	2	H	108		
44	91	.55	94	PCT	15		P2	VS3	.92		TEC	TEH	.610	SBAY2	2	H	108		
44	91			TBP							TEH	TEC	.610	SBAY2	234	C	22		
46	91	.62	121	PCT	16		P2	VS3	.86		TEC	TEH	.610	SBAY2	2	H	33		
46	91	.68	107	PCT	17		P2	BW2	1.17		TEC	TEH	.610	SBAY2	2	H	33		
48	91	.75	107	PCT	18		P2	VS3	.80		TEC	TEH	.610	SBAY2	2	H	54		
48	91	.39	86	PCT	12		P2	09C	-1.56		TEC	TEH	.610	SBAY2	2	H	54		

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
66	91	.78	109	PCT	21		P2	VS3	1.02		VS3	TEC	.610	NBAZ1	20	C	152		
51	92	.30	142	PCT	10		P2	BW1	.86		TEC	TEH	.610	SBAY2	2	H	76		
77	92	.65	122	PCT	17		P2	VS3	-.65		VS3	TEH	.610	NBAZ1	24	H	133		
111	92	.33	129	PCT	11		P2	BW1	.79		TEC	TEH	.610	SBAY1	20	H	75		
46	93	.79	91	PCT	19		P2	BW1	-.82		TEC	TEH	.610	SBAY2	2	H	109		
48	93	.63	114	PCT	17		P2	09C	-1.61		TEC	TEH	.610	SBAY2	2	H	34		
50	93	.31	31	PCT	10		P2	VS3	-.55		TEC	TEH	.610	SBAY2	2	H	55		
128	93	.31	154	PCT	10		P2	VS4	-.86		TEC	TEH	.610	SBAY1	20	H	101		
148	93	.37	32	PCT	12		P2	VS3	.80		TEC	TEH	.610	SBAY2	15	H	29		
160	93	.31	107	PCT	11		P2	VS3	.79		TEC	TEH	.610	SBAY2	10	H	157		
166	93	.29	106	PCT	10		P2	11H	.89		TEC	TEH	.610	SBAY2	10	H	160		
170	93	.28	59	PCT	10		P2	BW2	-.77		TEC	TEH	.610	SBAY2	10	H	162		
51	94	1.27	114	PCT	25		P2	BW1	-.77		TEC	TEH	.610	SBAY2	2	H	56		
51	94			TBP							TEH	TEC	.610	SBAY2	234	C	21		
52	95	.37	117	PCT	11		P2	VS3	-.92		TEC	TEH	.610	SBAY2	2	H	57		
56	95	.58	143	PCT	15		P2	VS3	-.80		TEC	TEH	.610	SBAY2	3	H	22		
166	95	.32	94	PCT	10		P2	BW2	-.95		TEC	TEH	.610	SBAY2	9	H	174		
77	96	.26	57	PCT	9		P2	09H	.76		VS3	TEH	.610	NBAZ1	24	H	163		
167	96	.30	100	PCT	10		P2	BW2	.95		TEC	TEH	.610	SBAY2	10	H	165		
48	97	3.36	96	PCT	40		P2	BW1	.79		TEC	TEH	.610	SBAY2	2	H	80		
48	97			TBP							TEH	TEC	.610	SBAY2	234	C	20		
128	97	.65	109	PCT	17		P2	VS3	-.88		TEC	TEH	.610	SBAY1	20	H	139		
132	97	.40	138	PCT	12		P2	VS1	-.98		TEC	TEH	.610	SBAY2	13	H	186		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
136	97	.44	135	PCT	13		P2	BW2	-.77		TEC	TEH	.610	SBAY2	13	H	188		
111	98	.30	157	PCT	10		P2	VS4	.81		TEC	TEH	.610	SBAY1	19	H	150		
127	98	.52	67	PCT	14		P2	BW2	.89		TEC	TEH	.610	SBAY1	19	H	142		
135	98	.56	141	PCT	15		P2	VS1	-.86		TEC	TEH	.610	SBAY2	13	H	184		
145	98	.59	62	PCT	16		P2	BW2	.98		TEC	TEH	.610	SBAY2	13	H	179		
74	99	.31	152	PCT	10		P2	09H	.68		VS3	TEH	.610	NBAZ1	23	H	213		
150	99	.36	136	PCT	12		P2	BW2	-.85		TEC	TEH	.610	SBAY2	14	H	172		
49	100	.20	97	PCT	7		P2	BW1	-1.04		TEC	TEH	.610	SBAY2	2	H	84		
49	100	.31	94	PCT	10		P2	BW1	.93		TEC	TEH	.610	SBAY2	2	H	84		
113	100	.26	149	PCT	9		P2	VS3	.78		TEC	TEH	.610	SBAY1	20	H	150		
169	100	.28	110	PCT	10		P2	BW2	.63		TEC	TEH	.610	SBAY2	10	H	182		
171	100	.31	118	PCT	11		P2	11H	.83		TEC	TEH	.610	SBAY2	10	H	181		
90	101	1.86	105	PCT	30		P2	VS2	-.74		VS3	TEH	.610	NBAZ1	24	H	203		
90	101			TBP							TEH	TEC	.610	SBAY2	234	C	18		
108	101	.25	142	PCT	9		P2	BW1	1.77		TEC	TEH	.610	SBAY1	20	H	167		
142	101	.76	94	PCT	18		P2	VS1	.79		TEC	TEH	.610	SBAY2	13	H	170		
144	101	.34	89	PCT	11		P2	VS3	.70		TEC	TEH	.610	SBAY2	13	H	171		
166	101	.31	45	PCT	11		P2	VS2	-.74		TEC	TEH	.610	SBAY2	10	H	196		
166	101	.60	110	PCT	17		P2	VS3	.66		TEC	TEH	.610	SBAY2	10	H	196		
166	101	.31	64	PCT	11		P2	BW2	-.80		TEC	TEH	.610	SBAY2	10	H	196		
53	102	.55	76	PCT	15		P2	VS3	-1.08		TEC	TEH	.610	SBAY2	2	H	86		
57	102	.30	159	PCT	10		P2	BW2	-1.84		TEC	TEH	.610	SBAY2	3	H	9		
63	102	.35	135	PCT	11		P2	VS3	-1.00		TEC	TEH	.610	SBAY2	3	H	15		
69	102	.30	54	PCT	11		P2	BW2	-.90		VS3	TEC	.610	NBAZ1	22	C	19		

ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
101	102	.45	118	PCT	13		P2	VS2	-1.06		VS3	TEH	.610	NBAZ1	21	H	13		
101	102	.63	104	PCT	16		P2	VS3	-.85		VS3	TEH	.610	NBAZ1	21	H	13		
101	102	1.04	112	PCT	25		P2	VS4	.97		VS3	TEC	.610	NBAZ1	22	C	34		
66	103	.30	114	PCT	10		P2	VS3	-.59		VS3	TEH	.610	NBAZ1	23	H	273		
72	103	.49	128	PCT	14		P2	VS2	-.81		VS3	TEH	.610	NBAZ1	23	H	270		
86	103	.36	121	PCT	11		P2	BW1	-.83		VS3	TEH	.610	NBAZ1	23	H	229		
150	103	.27	126	PCT	10		P2	VS3	.84		TEC	TEH	.610	SBAY2	14	H	150		
162	103	.32	151	PCT	10		P2	VS4	.87		TEC	TEH	.610	SBAY2	9	H	207		
166	103	.59	31	PCT	15		P2	BW2	-.79		TEC	TEH	.610	SBAY2	9	H	209		
77	104	.52	129	PCT	14		P2	09H	.97		VS3	TEH	.610	NBAZ1	24	H	223		
50	105	.34	121	PCT	10		P2	VS3	.83		TEC	TEH	.610	SBAY2	5	H	113		
60	105	.32	78	PCT	10		P2	VS2	.86		TEC	TEH	.610	SBAY2	3	H	12		
150	105	.34	115	PCT	11		P2	BW2	-.80		TEC	TEH	.610	SBAY2	13	H	151		
166	105	.51	129	PCT	15		P2	BW2	-.76		TEC	TEH	.610	SBAY2	10	H	214		
170	105	.31	133	PCT	11		P2	11H	.90		TEC	TEH	.610	SBAY2	10	H	216		
170	105	.42	110	PCT	13		P2	VS1	.84		TEC	TEH	.610	SBAY2	10	H	216		
49	106	.45	125	PCT	12		P2	BW1	-.94		TEC	TEH	.610	SBAY2	5	H	114		
61	106	.45	131	PCT	12		P2	VS3	.64		TEC	TEH	.610	SBAY2	5	H	163		
67	106	.52	82	PCT	14		P2	VS3	-.85		TEC	TEH	.610	SBAY2	9	H	6		
77	106	.80	105	PCT	19		P2	VS3	-.78		TEC	TEH	.610	SBAY2	9	H	11		
107	106	.33	135	PCT	10		P2	BW1	1.85		VS3	TEH	.610	NBAZ1	21	H	56		
60	107	.39	32	PCT	11		P2	VS2	.97		TEC	TEH	.610	SBAY2	5	H	162		
128	107	.33	147	PCT	10		P2	VS1	-.82		VS3	TEH	.610	NBAZ1	21	H	83		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
130	107	1.04	123	PCT	22		P2	VS2	.71		VS3	TEH	.610	NBAZ1	21	H	84		
168	107	.36	89	PCT	11		P2	BW1	-.64		TEC	TEH	.610	SBAY2	11	H	18		
75	108	.39	126	PCT	13		P2	VS4	-.70		TEC	TEH	.610	SBAY2	10	H	10		
87	108	1.09	103	PCT	24		P2	VS4	-.93		TEC	TEH	.610	SBAY2	10	H	16		
115	108	.38	95	PCT	11		P2	VS2	.81		VS3	TEH	.610	NBAZ1	22	H	49		
171	108	.27	57	PCT	10		P2	BW2	.89		TEC	TEH	.610	SBAY2	10	H	217		
46	109	.46	117	PCT	12		P2	BW2	-.84		TEC	TEH	.610	SBAY2	5	H	115		
70	109	.34	78	PCT	10		P2	VS3	.76		TEC	TEH	.610	SBAY2	7	H	104		
120	109	.37	101	PCT	11		P2	VS3	1.04		VS3	TEH	.610	NBAZ1	22	H	76		
126	109	.36	109	PCT	11		P2	VS3	.74		VS3	TEH	.610	NBAZ1	22	H	79		
152	109	.38	113	PCT	12		P2	BW2	-.85		TEC	TEH	.610	SBAY2	13	H	130		
166	109	.59	121	PCT	16		P2	BW2	-.85		TEC	TEH	.610	SBAY2	12	H	16		
47	110	.34	114	PCT	10		P2	VS3	-.89		TEC	TEH	.610	SBAY2	6	H	60		
59	110	.49	63	PCT	13		P2	BW1	.85		TEC	TEH	.610	SBAY2	5	H	170		
99	110	.23	124	PCT	8		P2	VS2	.72		VS3	TEH	.610	NBAZ1	21	H	101		
167	110	.44	114	PCT	13		P2	VS3	.63		TEC	TEH	.610	SBAY2	11	H	22		
48	111	.44	135	PCT	12		P2	09C	-1.02		TEC	TEH	.610	SBAY2	5	H	105		
68	111	.32	56	PCT	10		P2	VS4	-.97		TEC	TEH	.610	SBAY2	8	H	170		
88	111	.33	44	PCT	10		P2	BW1	-.96		TEC	TEH	.610	SBAY2	8	H	160		
108	111	.67	142	PCT	17		P2	VS2	-.92		VS3	TEH	.610	NBAZ1	21	H	114		
112	111	.34	133	PCT	10		P2	BW1	-1.14		VS3	TEH	.610	NBAZ1	21	H	116		
150	111	.34	89	PCT	11		P2	BW2	-.86		TEC	TEH	.610	SBAY2	14	H	107		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
45	112	.81	74	PCT	18		P2	BW2	.99		TEC	TEH	.610	SBAY2	6	H	62		
47	112	.47	47	PCT	12		P2	BW2	.98		TEC	TEH	.610	SBAY2	5	H	104		
49	112	.41	131	PCT	11		P2	BW1	.93		TEC	TEH	.610	SBAY2	5	H	123		
161	112	.29	147	PCT	10		P2	VS4	.78		TEC	TEH	.610	SBAY2	12	H	23		
102	113	.32	109	PCT	10		P2	VS4	-.73		VS3	TEC	.610	NBAZ1	23	C	152		
136	113	.38	108	PCT	12		P2	BW1	-.87		TEC	TEH	.610	SBAY2	13	H	100		
150	113	.39	149	PCT	12		P2	VS1	.82		TEC	TEH	.610	SBAY2	13	H	107		
150	113	.33	105	PCT	10		P2	BW2	-.86		TEC	TEH	.610	SBAY2	13	H	107		
168	113	.28	68	PCT	10		P2	BW1	-.93		TEC	TEH	.610	SBAY2	12	H	34		
45	114	.58	113	PCT	15		P2	VS3	-.76		TEC	TEH	.610	SBAY2	5	H	103		
47	114	1.02	144	PCT	21		P2	BW1	.87		TEC	TEH	.610	SBAY2	5	H	124		
47	114	.45	142	PCT	12		P2	VS3	-.86		TEC	TEH	.610	SBAY2	5	H	124		
47	114			TBP							TEH	TEC	.610	SBAY2	234	C	16		
85	114	.34	99	PCT	10		P2	VS2	.76		TEC	TEH	.610	SBAY2	8	H	87		
89	114	.32	31	PCT	10		P2	BW1	.90		TEC	TEH	.610	SBAY2	8	H	85		
89	114	.71	115	PCT	17		P2	VS3	-.71		TEC	TEH	.610	SBAY2	8	H	85		
151	114	.45	142	PCT	13		P2	VS1	-.82		TEC	TEH	.610	SBAY2	13	H	88		
151	114	.36	71	PCT	11		P2	BW2	.83		TEC	TEH	.610	SBAY2	13	H	88		
155	114	.36	23	PCT	11		P2	BW2	.79		TEC	TEH	.610	SBAY2	11	H	45		
42	115	.47	107	PCT	13		P2	BW1	-1.01		TEC	TEH	.610	SBAY2	6	H	64		
42	115	.45	56	PCT	12		P2	BW2	-.90		TEC	TEH	.610	SBAY2	6	H	64		
44	115	.94	131	PCT	20		P2	BW2	-.87		TEC	TEH	.610	SBAY2	5	H	102		
44	115			TBP							TEH	TEC	.610	SBAY2	234	C	14		
46	115	.35	112	PCT	10		P2	VS3	.86		TEC	TEH	.610	SBAY2	5	H	125		
46	115	.95	79	PCT	20		P2	BW2	-.91		TEC	TEH	.610	SBAY2	5	H	125		
46	115	.37	94	PCT	11		P2	BW2	.96		TEC	TEH	.610	SBAY2	5	H	125		
46	115			TBP							TEH	TEC	.610	SBAY2	234	C	15		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
48	115	.57	135	PCT	15		P2	09C	-1.70		TEC	TEH	.610	SBAY2	6	H	101		
166	115	.47	120	PCT	13		P2	BW2	-.74		TEC	TEH	.610	SBAY2	11	H	52		
168	115	.83	107	PCT	19		P2	BW2	-.95		TEC	TEH	.610	SBAY2	11	H	53		
47	116	.36	54	PCT	10		P2	BW2	-1.40		TEC	TEH	.610	SBAY2	6	H	100		
47	116	.49	90	PCT	13		P2	BW2	.87		TEC	TEH	.610	SBAY2	6	H	100		
49	116	1.77	91	PCT	29		P2	BW1	.91		TEC	TEH	.610	SBAY2	6	H	122		
49	116			TBP							TEH	TEC	.610	SBAY2	234	C	17		
167	116	.43	123	PCT	13		P2	BW2	.90		TEC	TEH	.610	SBAY2	12	H	37		
169	116	.29	132	PCT	10		P2	VS5	.67		TEC	TEH	.610	SBAY2	12	H	36		
40	117	.45	100	PCT	12		P2	BW1	-.91		TEC	TEH	.610	SBAY2	6	H	66		
42	117	2.77	98	PCT	35		P2	BW1	-.96		TEC	TEH	.610	SBAY2	5	H	100		
42	117	.96	84	PCT	20		P2	BW1	-.61		TEC	TEH	.610	SBAY2	5	H	100		
42	117			TBP							TEH	TEC	.610	SBAY2	234	C	13		
44	117	.69	125	PCT	16		P2	BW2	-.83		TEC	TEH	.610	SBAY2	5	H	127		
58	117	.45	82	PCT	12		P2	VS2	.85		TEC	TEH	.610	SBAY2	5	H	202		
82	117	.29	71	PCT	9		P2	BW1	-.94		TEC	TEH	.610	SBAY2	7	H	82		
130	117	.34	131	PCT	11		P2	BW2	-.80		VS3	TEC	.610	NBAZ1	23	C	179		
138	117	.44	110	PCT	13		P2	BW1	-.76		TEC	TEH	.610	SBAY2	13	H	80		
154	117	.42	120	PCT	13		P2	VS3	.86		TEC	TEH	.610	SBAY2	12	H	.44		
160	117	.35	151	PCT	11		P2	BW2	-.79		TEC	TEH	.610	SBAY2	12	H	47		
166	117	.58	128	PCT	16		P2	VS1	-.81		TEC	TEH	.610	SBAY2	12	H	50		
168	117	.29	110	PCT	10		P2	VS3	.85		TEC	TEH	.610	SBAY2	12	H	51		
39	118	.69	64	PCT	17		P2	BW1	-1.00		TEC	TEH	.610	SBAY2	6	H	67		
41	118	.67	83	PCT	16		P2	BW1	-.87		TEC	TEH	.610	SBAY2	5	H	99		
41	118	.68	131	PCT	16		P2	BW2	-.93		TEC	TEH	.610	SBAY2	5	H	99		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
43	118	4.21	107	PCT	42		P2	BW1	-.93		TEC	TEH	.610	SBAY2	5	H	128		
43	118	.71	150	PCT	17		P2	BW2	-.81		TEC	TEH	.610	SBAY2	5	H	128		
43	118			TBP							TEH	TEC	.610	SBAY2	234	C	12		
45	118	.65	101	PCT	16		P2	BW1	1.14		TEC	TEH	.610	SBAY2	6	H	98		
53	118	.59	120	PCT	15		P2	VS3	.67		TEC	TEH	.610	SBAY2	6	H	146		
89	118	.32	103	PCT	10		P2	BW1	-.83		TEC	TEH	.610	SBAY2	8	H	58		
119	118	.30	120	PCT	10		P2	BW1	.50		VS3	TEH	.610	NBAZ1	21	H	305		
139	118	.42	103	PCT	12		P2	BW2	1.00		TEC	TEH	.610	SBAY2	13	H	73		
141	118	.47	55	PCT	14		P2	BW2	.87		TEC	TEH	.610	SBAY2	13	H	72		
143	118	.47	85	PCT	13		P2	VS1	-.98		TEC	TEH	.610	SBAY2	13	H	71		
38	119	.37	143	PCT	11		P2	BW1	-.90		TEC	TEH	.610	SBAY2	6	H	68		
40	119	3.15	84	PCT	37		P2	BW1	-.76		TEC	TEH	.610	SBAY2	5	H	98		
40	119			TBP							TEH	TEC	.610	SBAY2	234	C	10		
42	119	1.18	87	PCT	23		P2	BW1	-.77		TEC	TEH	.610	SBAY2	5	H	129		
42	119			TBP							TEH	TEC	.610	SBAY2	234	C	11		
88	119	.18	44	PCT	6		P2	08H	.74		TEC	TEH	.610	SBAY2	8	H	56		
90	119	.26	61	PCT	9		P2	BW1	-.70		TEC	TEH	.610	SBAY2	8	H	57		
94	119	.34	40	PCT	11		P2	BW1	.80		VS3	TEH	.610	NBAZ1	21	H	283		
104	119	.39	137	PCT	12		P2	BW1	-.76		VS3	TEH	.610	NBAZ1	21	H	288		
144	119	.27	83	PCT	10		P2	BW1	-.84		TEC	TEH	.610	SBAY2	14	H	60		
37	120	.40	141	PCT	11		P2	BW1	-.81		TEC	TEH	.610	SBAY2	6	H	69		
37	120	1.21	103	PCT	24		P2	BW2	-.77		TEC	TEH	.610	SBAY2	6	H	69		
37	120			TBP							TEH	TEC	.610	SBAY2	234	C	6		
39	120	1.78	108	PCT	29		P2	BW1	.94		TEC	TEH	.610	SBAY2	5	H	97		
39	120			TBP							TEH	TEC	.610	SBAY2	234	C	7		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
41	120	2.24	116	PCT	32		P2	BW2	-.78		TEC	TEH	.610	SBAY2	5	H	130		
41	120			TBP							TEH	TEC	.610	SBAY2	234	C	8		
43	120	1.09	95	PCT	22		P2	BW1	-1.00		TEC	TEH	.610	SBAY2	6	H	96		
43	120	1.56	101	PCT	27		P2	BW2	-.88		TEC	TEH	.610	SBAY2	6	H	96		
43	120			TBP							TEH	TEC	.610	SBAY2	234	C	9		
49	120	.34	51	PCT	10		P2	BW1	.89		TEC	TEH	.610	SBAY2	5	H	180		
85	120	.36	91	PCT	10		P2	VS3	-.84		TEC	TEH	.610	SBAY2	7	H	62		
87	120	.36	133	PCT	10		P2	BW1	.81		TEC	TEH	.610	SBAY2	7	H	61		
89	120	.35	128	PCT	10		P2	BW1	.69		TEC	TEH	.610	SBAY2	7	H	60		
119	120	.44	133	PCT	13		P2	VS3	-.97		VS3	TEH	.610	NBAZ1	21	H	267		
121	120	.33	129	PCT	10		P2	VS3	-.94		VS3	TEH	.610	NBAZ1	21	H	266		
167	120	.32	130	PCT	11		P2	BW2	.75		TEC	TEH	.610	SBAY2	12	H	52		
58	121	.39	136	PCT	11		P2	VS3	.75		TEC	TEH	.610	SBAY2	6	H	185		
88	121	.48	66	PCT	13		P2	VS4	.83		TEC	TEH	.610	SBAY2	7	H	56		
110	121	.30	120	PCT	10		P2	BW1	-.84		VS3	TEH	.610	NBAZ1	22	H	277		
112	121	.17	91	PCT	6		P2	BW1	-.76		VS3	TEH	.610	NBAZ1	22	H	278		
134	121	.37	131	PCT	11		P2	BW1	.55		TEC	TEH	.610	SBAY2	13	H	56		
152	121	.43	141	PCT	13		P2	BW2	-.83		TEC	TEH	.610	SBAY2	13	H	65		
162	121	.30	55	PCT	10		P2	BW1	-.86		TEC	TEH	.610	SBAY2	12	H	62		
35	122	.36	80	PCT	10		P2	BW1	-.99		TEC	TEH	.610	SBAY2	6	H	71		
39	122	.59	77	PCT	15		P2	BW1	.84		TEC	TEH	.610	SBAY2	5	H	132		
41	122	.52	133	PCT	14		P2	BW2	-.82		TEC	TEH	.610	SBAY2	6	H	94		
43	122	.30	144	PCT	9		P2	08C	.87		TEC	TEH	.610	SBAY2	6	H	127		
49	122	.46	136	PCT	13		P2	BW2	-.87		TEC	TEH	.610	SBAY2	6	H	142		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
87	122	.47	56	PCT	13		P2	BW1	.81		TEC	TEH	.610	SBAY2	8	H	32		
143	122	.29	115	PCT	10		P2	BW2	.88		TEC	TEH	.610	SBAY2	13	H	49		
149	122	.35	125	PCT	11		P2	VS3	.84		TEC	TEH	.610	SBAY2	13	H	46		
167	122	.47	36	PCT	13		P2	BW2	.90		TEC	TEH	.610	SBAY2	11	H	71		
32	123	1.36	101	PCT	25		P2	BW1	-.79		TEC	TEH	.610	SBAY2	5	H	92		
32	123	.57	91	PCT	14		P2	08C	.82		TEC	TEH	.610	SBAY2	5	H	92		
32	123			TBP							TEH	TEC	.610	SBAY2	234	C	5		
36	123	.35	82	PCT	10		P2	08C	.87		TEC	TEH	.610	SBAY2	5	H	94		
60	123	.58	113	PCT	15		P2	VS3	.82		TEC	TEH	.610	SBAY2	5	H	230		
62	123	.68	136	PCT	16		P2	VS2	.69		TEC	TEH	.610	SBAY2	5	H	235		
108	123	.45	125	PCT	13		P2	BW1	-1.54		VS3	TEH	.610	NBAZ1	21	H	248		
118	123	.51	127	PCT	14		P2	VS2	.75		VS3	TEH	.610	NBAZ1	21	H	253		
120	123	.63	125	PCT	16		P2	VS2	.79		VS3	TEH	.610	NBAZ1	21	H	254		
166	123	.31	82	PCT	10		P2	BW2	1.10		TEC	TEH	.610	SBAY2	11	H	84		
168	123	.41	47	PCT	12		P2	BW2	.98		TEC	TEH	.610	SBAY2	11	H	104		
109	124	.37	144	PCT	11		P2	BW1	-1.99		VS3	TEH	.610	NBAZ1	21	H	230		
121	124	.32	130	PCT	10		P2	BW1	1.05		VS3	TEH	.610	NBAZ1	21	H	224		
121	124	.45	119	PCT	13		P2	VS1	.77		VS3	TEH	.610	NBAZ1	21	H	224		
28	125	.54	100	PCT	14		P2	08H	.88		TEC	TEH	.610	SBAY2	5	H	84		
38	125	.40	57	PCT	11		P2	BW2	.97		TEC	TEH	.610	SBAY2	6	H	91		
48	125	.43	58	PCT	12		P2	09C	-.63		TEC	TEH	.610	SBAY2	6	H	172		
72	125	.36	135	PCT	10		P2	VS4	1.01		TEC	TEH	.610	SBAY2	7	H	21		
120	125	.66	98	PCT	17		P2	VS2	.79		VS3	TEH	.610	NBAZ1	22	H	241		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
130	125	.37	92	PCT	11		P2	VS3	-.35		VS3	TEH	.610	NBAZ1	22	H	246		
162	125	.02	43	NQI			3	TSH	2.70		TEC	TEH	.610	SBAY2	12	H	75		
27	126	.40	124	PCT	11		P2	08H	.77		TEC	TEH	.610	SBAY2	5	H	85		
27	126	.40	121	PCT	11		P2	BW1	-.88		TEC	TEH	.610	SBAY2	5	H	85		
29	126	.50	79	PCT	13		P2	BW1	-1.02		TEC	TEH	.610	SBAY2	5	H	89		
37	126	.37	52	PCT	11		P2	BW1	-.89		TEC	TEH	.610	SBAY2	6	H	90		
41	126	.42	92	PCT	12		P2	BW1	-.96		TEC	TEH	.610	SBAY2	5	H	143		
143	126	.31	130	PCT	10		P2	BW2	-.89		TEC	TEH	.610	SBAY2	13	H	27		
153	126	.38	113	PCT	12		P2	VS2	.91		TEC	TEH	.610	SBAY2	13	H	22		
108	127	.34	118	PCT	10		P2	BW1	-1.61		VS3	TEH	.610	NBAZ1	21	H	205		
99	128	.43	79	PCT	13		P2	BW1	-.77		VS3	TEH	.610	NBAZ1	21	H	192		
125	128	.36	126	PCT	11		P2	VS1	.61		VS3	TEH	.610	NBAZ1	21	H	179		
129	128	.43	137	PCT	13		P2	VS3	1.20		VS3	TEH	.610	NBAZ1	21	H	177		
131	128	.34	145	PCT	11		P2	VS2	-.85		VS3	TEH	.610	NBAZ1	21	H	176		
155	128	.32	150	PCT	11		P2	VS5	.73		TEC	TEH	.610	SBAY2	12	H	81		
159	128	.28	147	PCT	10		P2	VS5	.74		TEC	TEH	.610	SBAY2	12	H	79		
163	128	.29	146	PCT	10		P2	BW2	.89		TEC	TEH	.610	SBAY2	12	H	77		
16	129	.24	91	PCT	8		P2	VS3	.84		VS3	TEC	.610	NBAZ1	25	C	366		
18	129	.44	69	PCT	13		P2	VS3	.65		VS3	TEC	.610	NBAZ1	25	C	367		
32	129	.27	109	PCT	8		P2	VS3	-.81		TEC	TEH	.610	SBAY2	5	H	139		
48	129	.44	71	PCT	12		P2	09C	-1.07		TEC	TEH	.610	SBAY2	5	H	223		
50	129	.20	165	PCT	6		P2	VS3	-.84		TEC	TEH	.610	SBAY2	6	H	177		
68	129	.77	122	PCT	18		P2	VS2	.73		TEC	TEH	.610	SBAY2	5	H	246		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
100	129	.31	87	PCT	10		P2	BW1	-.81		VS3	TEH	.610	NBAZ1	22	H	190		
132	129	.45	75	PCT	13		P2	VS2	-.92		TEC	TEH	.610	SBAY2	13	H	11		
136	129	.33	99	PCT	10		P2	VS3	.75		TEC	TEH	.610	SBAY2	13	H	13		
152	129	.34	87	PCT	11		P2	VS1	-.87		TEC	TEH	.610	SBAY2	13	H	21		
160	129	.36	51	PCT	12		P2	BW2	-.71		TEC	TEH	.610	SBAY2	12	H	85		
17	130	.51	57	PCT	14		P2	VS3	-.96		VS3	TEH	.610	NBAZ1	27	H	95		
75	130	.35	51	PCT	11		P2	BW1	.73		TEC	TEH	.610	SBAY2	8	H	125		
89	130	.33	118	PCT	10		P2	BW1	-.83		TEC	TEH	.610	SBAY2	8	H	132		
163	130	.82	88	PCT	19		P2	BW2	.98		TEC	TEH	.610	SBAY2	11	H	110		
14	131	.43	92	PCT	13		P2	08H	.02		VS3	TEH	.610	NBAZ1	27	H	69		
48	131	.76	57	PCT	18		P2	BW1	.79		VS3	TEH	.610	NBAZ1	27	H	86		
72	131	.54	73	PCT	15		P2	BW1	-.78		TEH	TEC	.610	SBAY2	9	C	50		
86	131	.24	153	PCT	8		P2	VS2	.64		TEH	TEC	.610	SBAY2	9	C	43		
88	131	.32	104	PCT	10		P2	BW1	-.69		TEH	TEC	.610	SBAY2	9	C	42		
88	131	.29	80	PCT	10		P2	VS2	.72		TEH	TEC	.610	SBAY2	9	C	42		
160	131	.21	120	PCT	8		P2	11C	.87		TEH	TEC	.610	SBAY2	2	C	8		
49	132	.19	135	PCT	7		P2	08H	.72		VS3	TEH	.610	NBAZ1	28	H	96		
119	132	.75	99	PCT	20		P2	VS2	.89		TEH	TEC	.610	SBAY2	2	C	49		
88	133	.39	79	PCT	12		P2	BW1	-.69		TEH	TEC	.610	SBAY2	9	C	27		
148	133	.34	73	PCT	12		P2	BW2	-.89		TEH	TEC	.610	SBAY2	1	C	15		
15	134	.31	113	PCT	10		P2	BW1	-.78		VS3	TEH	.610	NBAZ1	27	H	65		
45	134	.55	88	PCT	15		P2	BW1	-.84		VS3	TEH	.610	NBAZ1	27	H	50		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
49	134	.44	72	PCT	13		P2	BW1	-.92		VS3	TEH	.610	NBAZ1	27	H	48		
141	134	.36	48	PCT	13		P2	VS2	.84		TEH	TEC	.610	SBAY2	1	C	56		
155	134	.35	45	PCT	12		P2	VS1	-.80		TEH	TEC	.610	SBAY2	1	C	63		
64	135	.37	73	PCT	11		P2	BW1	-.74		TEH	TEC	.610	SBAY2	9	C	80		
102	135	.27	88	PCT	10		P2	VS2	.83		TEH	TEC	.610	SBAY2	2	C	101		
130	135	.55	120	PCT	16		P2	VS3	-.83		TEH	TEC	.610	SBAY2	2	C	87		
162	135	.33	92	PCT	11		P2	03C	.82		TEH	TEC	.610	SBAY2	2	C	71		
127	136	.22	59	PCT	8		P2	BW2	.62		TEH	TEC	.610	SBAY2	2	C	114		
133	136	.27	53	PCT	10		P2	VS5	-1.00		TEH	TEC	.610	SBAY2	2	C	117		
46	137	.26	131	PCT	9		P2	BW2	.77		VS3	TEC	.610	NBAZ1	25	C	291		
124	137	.28	84	PCT	10		P2	VS1	-.76		TEH	TEC	.610	SBAY2	1	C	85		
126	137	.33	113	PCT	12		P2	VS1	-.75		TEH	TEC	.610	SBAY2	1	C	84		
142	137	.31	64	PCT	11		P2	BW2	-.91		TEH	TEC	.610	SBAY2	1	C	76		
156	137	.26	50	PCT	10		P2	VS4	.87		TEH	TEC	.610	SBAY2	1	C	69		
160	137	.46	64	PCT	15		P2	BW2	-.88		TEH	TEC	.610	SBAY2	1	C	67		
43	138	.33	22	PCT	10		P2	BW1	-.91		VS3	TEH	.610	NBAZ1	25	H	236		
117	138	.22	20	PCT	9		P2	BW2	.71		TEH	TEC	.610	SBAY2	1	C	102		
50	139	.52	98	PCT	14		P2	BW1	-.97		VS3	TEH	.610	NBAZ1	25	H	225		
50	139	.30	121	PCT	10		P2	VS3	-1.19		VS3	TEH	.610	NBAZ1	25	H	225		
60	139	.32	125	PCT	10		P2	VS3	.81		TEH	TEC	.610	SBAY2	9	C	97		
156	139	.27	135	PCT	9		P2	11C	.79		TEH	TEC	.610	SBAY2	2	C	133		
59	140	.32	32	PCT	10		P2	BW1	.49		TEH	TEC	.610	SBAY2	9	C	123		
77	140	.35	132	PCT	11		P2	BW1	1.08		TEH	TEC	.610	SBAY2	9	C	114		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
129	140	.33	125	PCT	11		P2	BW1	.69		TEH	TEC	.610	SBAY2	2	C	174		
100	141	.24	57	PCT	9		P2	VS2	.74		TEH	TEC	.610	SBAY2	7	C	108		
128	141	.33	52	PCT	12		P2	VS2	.90		TEH	TEC	.610	SBAY2	1	C	139		
136	141	.27	92	PCT	10		P2	BW1	-.78		TEH	TEC	.610	SBAY2	1	C	135		
45	142	.44	40	PCT	13		P2	BW1	-.95		VS3	TEH	.610	NBAZ1	25	H	188		
61	142	.29	116	PCT	10		P2	BW1	.99		TEH	TEC	.610	SBAY2	7	C	246		
119	142	.44	75	PCT	14		P2	VS3	-.79		TEH	TEC	.610	SBAY2	1	C	159		
131	142	.38	49	PCT	13		P2	VS1	-.72		TEH	TEC	.610	SBAY2	1	C	165		
50	143	.65	93	PCT	17		P2	BW1	-.82		VS3	TEH	.610	NBAZ1	25	H	179		
74	143	.38	85	PCT	12		P2	BW1	-.84		TEH	TEC	.610	SBAY2	9	C	131		
90	143	.25	48	PCT	9		P2	10H	-1.25		TEH	TEC	.610	SBAY2	7	C	87		
108	143	.34	120	PCT	11		P2	BW1	-1.86		TEH	TEC	.610	SBAY2	2	C	214		
112	143	.31	90	PCT	10		P2	BW1	-.73		TEH	TEC	.610	SBAY2	2	C	212		
61	144	.36	117	PCT	12		P2	BW1	.99		TEH	TEC	.610	SBAY2	10	C	23		
113	144	.27	120	PCT	10		P2	VS1	.54		TEH	TEC	.610	SBAY2	2	C	223		
119	144	.21	123	PCT	8		P2	VS2	.86		TEH	TEC	.610	SBAY2	2	C	226		
106	145	.30	97	PCT	11		P2	BW1	-1.31		TEH	TEC	.610	SBAY2	1	C	203		
110	145	.34	90	PCT	12		P2	BW1	-.08		TEH	TEC	.610	SBAY2	1	C	201		
114	145	.37	106	PCT	13		P2	BW1	1.11		TEH	TEC	.610	SBAY2	1	C	199		
116	145	.43	60	PCT	14		P2	BW1	1.05		TEH	TEC	.610	SBAY2	1	C	198		
120	145	.37	69	PCT	13		P2	BW1	.74		TEH	TEC	.610	SBAY2	1	C	196		
120	145	.33	50	PCT	12		P2	VS2	.89		TEH	TEC	.610	SBAY2	1	C	196		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
45	146	.56	73	PCT	15		P2	BW1	-.89		VS3	TEH	.610	NBAZ1	25	H	142		
107	146	.36	56	PCT	12		P2	BW1	1.69		TEH	TEC	.610	SBAY2	1	C	206		
46	147	.41	105	PCT	12		P2	BW1	-.92		VS3	TEH	.610	NBAZ1	25	H	133		
48	147	.50	104	PCT	17		P2	09C	-1.25		VS3	TEC	.610	NBAZ1	24	C	189		
76	147	.34	112	PCT	11		P2	VS2	-.70		TEH	TEC	.610	SBAY2	10	C	35		
104	147	.39	65	PCT	12		P2	BW1	-1.22		TEH	TEC	.610	SBAY2	2	C	268		
112	147	.32	134	PCT	11		P2	BW1	-1.14		TEH	TEC	.610	SBAY2	2	C	264		
118	147	.33	95	PCT	11		P2	BW1	-.83		TEH	TEC	.610	SBAY2	2	C	261		
126	147	.65	102	PCT	18		P2	VS3	-.95		TEH	TEC	.610	SBAY2	2	C	258		
65	148	.35	129	PCT	11		P2	VS3	-.76		TEH	TEC	.610	SBAY2	10	C	51		
115	148	.36	99	PCT	12		P2	VS2	.75		TEH	TEC	.610	SBAY2	2	C	275		
117	148	.28	77	PCT	10		P2	BW2	.76		TEH	TEC	.610	SBAY2	2	C	276		
121	148	.55	112	PCT	16		P2	BW2	.87		TEH	TEC	.610	SBAY2	2	C	278		
127	148	.30	39	PCT	10		P2	BW2	.98		TEH	TEC	.610	SBAY2	2	C	281		
129	148	.32	158	PCT	11		P2	BW2	.96		TEH	TEC	.610	SBAY2	4	C	5		
124	149	.34	140	PCT	12		P2	BW2	-.85		TEH	TEC	.610	SBAY2	1	C	246		
124	149	.26	34	PCT	10		P2	BW2	.77		TEH	TEC	.610	SBAY2	1	C	246		
126	149	.28	67	PCT	10		P2	VS2	1.13		TEH	TEC	.610	SBAY2	1	C	243		
126	149	.36	40	PCT	13		P2	BW2	.78		TEH	TEC	.610	SBAY2	1	C	243		
128	149	.29	46	PCT	11		P2	VS2	-.77		TEH	TEC	.610	SBAY2	1	C	242		
150	149	.29	138	PCT	11		P2	11H	.58		TEH	TEC	.610	SBAY2	1	C	231		
150	149	.25	109	PCT	10		P2	BW1	-.51		TEH	TEC	.610	SBAY2	1	C	231		
109	150	.29	45	PCT	11		P2	VS2	-.90		TEH	TEC	.610	SBAY2	1	C	259		
111	150	.31	74	PCT	11		P2	BW1	-.95		TEH	TEC	.610	SBAY2	1	C	260		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
115	150	.27	41	PCT	10		P2	VS5	.45		TEH	TEC	.610	SBAY2	1	C	262		
117	150	.46	93	PCT	15		P2	VS3	-.80		TEH	TEC	.610	SBAY2	1	C	263		
125	150	.26	81	PCT	10		P2	VS1	.92		TEH	TEC	.610	SBAY2	1	C	267		
127	150	.38	76	PCT	13		P2	BW2	.84		TEH	TEC	.610	SBAY2	1	C	268		
131	150	.38	106	PCT	12		P2	VS1	.97		TEH	TEC	.610	SBAY2	3	C	5		
48	151	.36	110	PCT	13		P2	09C	-1.15		VS3	TEC	.610	NBAZ1	24	C	146		
50	151	.18	122	PCT	8		P2	VS3	-.74		VS3	TEC	.610	NBAZ1	24	C	147		
72	151	.45	108	PCT	14		P2	VS4	-.90		TEH	TEC	.610	SBAY2	10	C	64		
110	151	.37	149	PCT	12		P2	BW1	-.72		TEH	TEC	.610	SBAY2	4	C	43		
110	151	.40	129	PCT	13		P2	VS2	-.69		TEH	TEC	.610	SBAY2	4	C	43		
134	151	.20	40	PCT	8		P2	VS3	-.97		TEH	TEC	.610	SBAY2	4	C	31		
81	152	.38	96	PCT	12		P2	VS4	.93		TEH	TEC	.610	SBAY2	10	C	74		
81	152	.45	85	PCT	14		P2	09C	-1.04		TEH	TEC	.610	SBAY2	10	C	74		
131	152	.30	151	PCT	10		P2	VS1	-.77		TEH	TEC	.610	SBAY2	4	C	63		
128	153	.31	45	PCT	10		P2	BW2	.92		TEH	TEC	.610	SBAY2	3	C	34		
130	153	.37	82	PCT	12		P2	VS2	-.83		TEH	TEC	.610	SBAY2	3	C	33		
132	153	.48	98	PCT	14		P2	VS1	.71		TEH	TEC	.610	SBAY2	3	C	32		
35	154	.31	141	PCT	10		P2	BW1	-.65		VS3	TEH	.610	NBAZ1	25	H	60		
133	154	.29	105	PCT	10		P2	BW2	-1.01		TEH	TEC	.610	SBAY2	3	C	62		
64	155	.42	133	PCT	13		P2	08C	.75		TEH	TEC	.610	SBAY2	10	C	91		
128	155	.36	152	PCT	12		P2	VS4	-.58		TEH	TEC	.610	SBAY2	4	C	78		
134	155	.37	160	PCT	12		P2	BW1	-.93		TEH	TEC	.610	SBAY2	4	C	75		
63	156	.47	40	PCT	14		P2	09C	-.89		TEH	TEC	.610	SBAY2	10	C	114		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
69	156	.31	85	PCT	10		P2	09H	1.19		TEH	TEC	.610	SBAY2	10	C	111		
77	156	.16	153	PCT	6		P2	08C	1.08		TEH	TEC	.610	SBAY2	10	C	107		
108	157	.45	100	PCT	14		P2	BW1	-1.74		TEH	TEC	.610	SBAY2	3	C	85		
118	157	.61	85	PCT	17		P2	BW1	-.70		TEH	TEC	.610	SBAY2	3	C	80		
130	157	.32	114	PCT	11		P2	VS4	-.73		TEH	TEC	.610	SBAY2	3	C	74		
130	157	.92	108	PCT	22		P2	VS5	-.85		TEH	TEC	.610	SBAY2	3	C	74		
142	157	.37	144	PCT	12		P2	11H	.80		TEH	TEC	.610	SBAY2	3	C	68		
142	157	.34	57	PCT	11		P2	BW1	-.77		TEH	TEC	.610	SBAY2	3	C	68		
144	157	.69	121	NQI			P1	TSH	.71		TEH	TEC	.610	SBAY2	3	C	25		
144	157	.86	99	PCT	21		P2	VS3	-1.01		TEH	TEC	.610	SBAY2	3	C	25		
75	158	.21	138	PCT	8		P2	08H	.97		TEH	TEC	.610	SBAY2	11	C	122		
81	158	.33	132	PCT	11		P2	VS2	-.96		TEH	TEC	.610	SBAY2	11	C	119		
81	158	.21	116	PCT	8		P2	09C	-.91		TEH	TEC	.610	SBAY2	11	C	119		
119	158	.29	109	PCT	10		P2	BW2	1.22		TEH	TEC	.610	SBAY2	3	C	96		
137	158	.25	59	PCT	9		P2	VS3	-.82		TEH	TEC	.610	SBAY2	3	C	105		
56	159	.37	139	PCT	12		P2	VS3	-.76		TEH	TEC	.610	SBAY2	10	C	118		
60	159	.28	103	PCT	10		P2	BW1	.98		TEH	TEC	.610	SBAY2	10	C	120		
62	159	.45	102	PCT	14		P2	VS3	-.85		TEH	TEC	.610	SBAY2	10	C	121		
140	159	.39	130	PCT	12		P2	BW1	-.77		TEH	TEC	.610	SBAY2	3	C	109		
37	160	.31	45	PCT	11		P2	BW1	-.64		VS3	TEH	.610	NBAZ1	26	H	14		
79	160	.33	145	PCT	11		P2	VS2	-.76		TEH	TEC	.610	SBAY2	10	C	137		
81	160	.30	139	PCT	10		P2	VS4	.98		TEH	TEC	.610	SBAY2	10	C	136		
85	160	.32	135	PCT	11		P2	VS2	-.82		TEH	TEC	.610	SBAY2	10	C	134		
129	160	.24	159	PCT	9		P2	VS1	.88		TEH	TEC	.610	SBAY2	4	C	161		

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
133	160	.35	142	PCT	12		P2	VS5	-.78		TEH	TEC	.610	SBAY2	4	C	128		
48	161	.75	118	PCT	19		P2	09C	-1.25		VS3	TEC	.610	NBAZ1	25	C	24		
128	161	.37	101	PCT	12		P2	VS4	-.77		TEH	TEC	.610	SBAY2	3	C	130		
132	161	.32	156	PCT	11		P2	BW2	.92		TEH	TEC	.610	SBAY2	4	C	127		
83	162	.18	123	PCT	7		P2	09H	.88		TEH	TEC	.610	SBAY2	11	C	153		
85	162	.29	116	PCT	10		P2	VS4	.83		TEH	TEC	.610	SBAY2	11	C	152		
111	162	.27	96	PCT	10		P2	VS2	-.80		TEH	TEC	.610	SBAY2	3	C	146		
44	163	.32	121	PCT	12		P2	BW1	-.84		TEH	TEC	.610	SBAY1	232	C	56		
92	163	.23	120	PCT	8		P2	BW2	-.86		TEH	TEC	.610	SBAY2	6	C	194		
120	163	.31	141	PCT	11		P2	VS3	.71		TEH	TEC	.610	SBAY2	4	C	167		
37	164	.43	75	PCT	15		P2	BW1	1.00		TEH	TEC	.610	SBAY1	232	C	41		
43	164	.26	96	PCT	10		P2	BW1	.96		TEH	TEC	.610	SBAY1	232	C	44		
83	164	.29	54	PCT	10		P2	08C	-.81		TEH	TEC	.610	SBAY2	10	C	166		
111	164	.72	149	PCT	19		P2	VS3	-.88		TEH	TEC	.610	SBAY2	4	C	182		
133	164	.31	128	PCT	11		P2	BW1	-.15		TEH	TEC	.610	SBAY2	3	C	121		
48	165	.31	99	PCT	12		P2	09C	-1.00		TEH	TEC	.610	SBAY1	232	C	5		
128	165	.27	157	PCT	10		P2	VS2	-.80		TEH	TEC	.610	SBAY2	4	C	123		
134	165	.53	102	PCT	16		P2	BW1	-.58		TEH	TEC	.610	SBAY2	3	C	115		
134	165	.29	72	PCT	10		P2	VS3	-.73		TEH	TEC	.610	SBAY2	3	C	115		
47	166	.42	132	PCT	14		P2	VS3	-.75		TEH	TEC	.610	SBAY1	230	C	304		
55	166	.29	117	PCT	10		P2	BW1	1.22		TEH	TEC	.610	SBAY2	11	C	205		
107	166	.34	87	PCT	11		P2	VS2	-.80		TEH	TEC	.610	SBAY2	3	C	170		
107	166	.61	96	PCT	17		P2	VS3	-.79		TEH	TEC	.610	SBAY2	3	C	170		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
111	166	1.08	108	PCT	24		P2	VS3	-.88		TEH	TEC	.610	SBAY2	3	C	172		
111	166	.32	132	PCT	11		P2	BW2	-.95		TEH	TEC	.610	SBAY2	3	C	172		
131	166	.35	67	PCT	12		P2	VS3	-.92		TEH	TEC	.610	SBAY2	3	C	119		
38	167	.35	141	PCT	12		P2	BW1	.86		TEH	TEC	.610	SBAY1	230	C	268		
58	167	.32	54	PCT	11		P2	BW1	-.61		TEH	TEC	.610	SBAY2	10	C	181		
60	167	.31	19	PCT	10		P2	09C	-.79		TEH	TEC	.610	SBAY2	10	C	182		
70	167	.55	127	PCT	16		P2	VS2	-.95		TEH	TEC	.610	SBAY2	10	C	187		
76	167	.30	50	PCT	10		P2	08C	-.88		TEH	TEC	.610	SBAY2	10	C	190		
52	169	.34	87	PCT	11		P2	VS3	-.70		TEH	TEC	.610	SBAY1	231	C	226		
76	169	.20	93	PCT	7		P2	VS2	.88		TEH	TEC	.610	SBAY2	11	C	217		
106	169	.36	123	PCT	12		P2	BW1	-1.22		TEH	TEC	.610	SBAY2	3	C	190		
106	169	.39	93	PCT	13		P2	BW2	-1.22		TEH	TEC	.610	SBAY2	3	C	190		
128	169	.36	83	PCT	12		P2	VS3	-.81		TEH	TEC	.610	SBAY2	3	C	116		
111	170	.28	50	PCT	10		P2	BW1	.94		TEH	TEC	.610	SBAY2	3	C	201		
125	170	.68	126	PCT	18		P2	VS3	.46		TEH	TEC	.610	SBAY2	3	C	192		
48	171	.35	74	PCT	12		P2	09C	-1.79		TEH	TEC	.610	SBAY1	230	C	210		
84	171	.26	85	PCT	11		P2	VS2	-.92		TEH	TEC	.610	SBAY2	13	C	11		
120	171	.42	135	PCT	13		P2	VS3	-.91		TEH	TEC	.610	SBAY2	4	C	209		
122	171	.88	104	PCT	22		P2	VS3	-1.00		TEH	TEC	.610	SBAY2	3	C	206		
35	172	.37	97	PCT	12		P2	BW1	.97		TEH	TEC	.610	SBAY1	231	C	187		
39	172	.34	32	PCT	11		P2	BW1	-.66		TEH	TEC	.610	SBAY1	231	C	185		
65	172	.27	105	PCT	12		P2	VS3	-.82		TEH	TEC	.610	SBAY2	13	C	32		
121	172	.29	79	PCT	10		P2	10H	-.33		TEH	TEC	.610	SBAY2	3	C	207		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
16	173	.32	125	PCT	10		P2	08H	-.77		TEH	TEC	.610	SBAY1	231	C	158		
60	173	.27	121	PCT	10		P2	VS3	-.91		TEH	TEC	.610	SBAY2	12	C	20		
108	173	.28	136	PCT	9		P2	BW1	-1.35		TEH	TEC	.610	SBAY2	6	C	51		
118	173	.34	131	PCT	11		P2	VS3	.74		TEH	TEC	.610	SBAY2	3	C	211		
122	173	.55	98	PCT	16		P2	VS3	-.91		TEH	TEC	.610	SBAY2	3	C	195		
122	173	.62	105	PCT	17		P2	VS3	.84		TEH	TEC	.610	SBAY2	3	C	195		
59	174	.52	63	PCT	16		P2	BW1	.86		TEH	TEC	.610	SBAY2	12	C	24		
75	174	.25	106	PCT	10		P2	VS2	.80		TEH	TEC	.610	SBAY2	12	C	34		
107	174	.27	64	PCT	9		P2	VS3	-.72		TEH	TEC	.610	SBAY2	6	C	56		
60	175	.22	90	PCT	10		P2	08C	.72		TEH	TEC	.610	SBAY2	13	C	58		
80	175	.41	29	PCT	15		P2	BW2	.73		TEH	TEC	.610	SBAY2	13	C	48		
88	175	.29	152	PCT	10		P2	VS3	.67		TEH	TEC	.610	SBAY2	6	C	67		
116	175	.28	69	PCT	10		P2	BW1	-.35		TEH	TEC	.610	SBAY2	3	C	213		
116	175	.28	135	PCT	10		P2	VS3	-.95		TEH	TEC	.610	SBAY2	3	C	213		
87	176	.35	147	PCT	11		P2	VS2	-.74		TEH	TEC	.610	SBAY2	6	C	94		
44	177	.30	97	PCT	10		P2	BW1	-.87		TEH	TEC	.610	SBAY1	231	C	126		
82	177	.32	102	PCT	11		P2	VS3	.61		TEH	TEC	.610	SBAY2	12	C	42		
84	177	.32	128	PCT	12		P2	VS2	.76		TEH	TEC	.610	SBAY2	12	C	41		
31	178	.32	106	PCT	11		P2	VS3	-.76		TEH	TEC	.610	SBAY1	230	C	137		
75	178	.25	122	PCT	10		P2	VS2	-.80		TEH	TEC	.610	SBAY2	12	C	64		
113	178	.34	109	PCT	13		P2	VS3	.62		TEH	TEC	.610	SBAY2	5	C	12		
26	179	.27	64	PCT	10		P2	VS3	.98		TEH	TEC	.610	SBAY1	230	C	109		
44	179	.34	132	PCT	12		P2	BW2	-.73		TEH	TEC	.610	SBAY1	230	C	118		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
48	179	.56	111	PCT	17		P2	09C	-.99		TEH	TEC	.610	SBAY1	230	C	120		
52	179	.37	156	PCT	13		P2	BW1	-.91		TEH	TEC	.610	SBAY1	230	C	122		
76	179	.23	63	PCT	11		P2	VS2	.93		TEH	TEC	.610	SBAY2	13	C	85		
39	180	.30	124	PCT	10		P2	BW2	-.98		TEH	TEC	.610	SBAY1	231	C	96		
77	180	.25	129	PCT	11		P2	BW2	-.94		TEH	TEC	.610	SBAY2	13	C	108		
109	180	.42	115	PCT	13		P2	VS3	-1.00		TEH	TEC	.610	SBAY2	9	C	135		
52	181	.38	137	PCT	12		P2	BW1	-.83		TEH	TEC	.610	SBAY1	231	C	87		
106	181	.52	109	PCT	15		P2	VS3	-.98		TEH	TEC	.610	SBAY2	9	C	136		
31	182	.28	58	PCT	10		P2	BW1	1.08		TEH	TEC	.610	SBAY1	230	C	91		
41	182	.35	118	PCT	12		P2	BW2	-.76		TEH	TEC	.610	SBAY1	230	C	86		
85	182	.45	117	PCT	15		P2	VS2	-.77		TEH	TEC	.610	SBAY2	12	C	101		
101	182	.34	132	PCT	11		P2	VS3	-.95		TEH	TEC	.610	SBAY2	9	C	142		
103	182	.61	105	PCT	16		P2	VS3	-.92		TEH	TEC	.610	SBAY2	9	C	141		
58	183	.24	73	PCT	11		P2	VS3	-.57		TEH	TEC	.610	SBAY2	13	C	127		
76	183	.37	108	PCT	15		P2	VS2	-.64		TEH	TEC	.610	SBAY2	13	C	117		
96	183	.39	107	PCT	12		P2	VS3	-.94		TEH	TEC	.610	SBAY2	9	C	154		
98	183	.29	107	PCT	9		P2	VS3	-1.04		TEH	TEC	.610	SBAY2	9	C	155		
102	183	.50	135	PCT	14		P2	VS3	.85		TEH	TEC	.610	SBAY2	9	C	139		
48	185	.43	112	PCT	13		P2	09C	-.96		TEH	TEC	.610	SBAY1	231	C	37		
98	185	.24	130	PCT	8		P2	VS2	.50		TEH	TEC	.610	SBAY2	9	C	158		
98	185	.30	109	PCT	10		P2	VS4	-.71		TEH	TEC	.610	SBAY2	9	C	158		
17	186	.37	80	PCT	13		P2	VS3	-.87		TEH	TEC	.610	SBAY1	230	C	54		

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ROW	COL	VOLTS	DEG	IND	PER	CRLN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
19	186	.28	144	PCT	10		P2	VS3	-.87		TEH	TEC	.610	SBAY1	230	C	53		
23	186	.37	119	PCT	13		P2	VS3	-.94		TEH	TEC	.610	SBAY1	230	C	51		
25	186	.48	96	PCT	15		P2	VS3	-.93		TEH	TEC	.610	SBAY1	230	C	50		
87	186	.33	108	PCT	11		P2	VS2	.78		TEH	TEC	.610	SBAY2	9	C	163		
93	186	.31	85	PCT	10		P2	BW1	.87		TEH	TEC	.610	SBAY2	9	C	160		
32	187	.34	145	PCT	12		P2	VS3	-.86		TEH	TEC	.610	SBAY1	230	C	26		
38	187	.47	50	PCT	15		P2	VS3	-.90		TEH	TEC	.610	SBAY1	230	C	29		
42	187	.29	116	PCT	11		P2	VS3	-.91		TEH	TEC	.610	SBAY1	230	C	31		
52	187	.31	58	PCT	11		P2	BW1	-.93		TEH	TEC	.610	SBAY1	230	C	36		
54	187	.31	39	PCT	13		P2	BW1	-1.03		TEH	TEC	.610	SBAY2	13	C	159		
63	190	.26	82	PCT	10		P2	BW1	.93		TEH	TEC	.610	SBAY2	12	C	153		
45	192	.31	74	PCT	10		P2	BW1	-.83		TEH	TEC	.610	SBAY2	19	C	124		
29	194	.24	127	PCT	9		P2	VS3	.82		TEH	TEC	.610	SBAY2	18	C	93		
56	195	.32	153	PCT	13		P2	BW2	-1.25		TEH	TEC	.610	SBAY2	13	C	195		
64	195	1.63	38	DTI			P5	TSH	.05		TEH	TEC	.610	SBAY2	12	C	189		
6	203	.33	106	PCT	12		P2	04C	.74		TEH	TEC	.610	SBAY2	16	C	46		
8	203	.17	148	NQI			P1	TSC	.54		TEH	TEC	.610	SBAY2	16	C	45		
14	203	.34	129	PCT	11		P2	04C	.82		TEH	TEC	.610	SBAY2	18	C	6		

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APPENDIX D

PLI & PLP

DATA SHEETS

SG - 11 SI PLP Calls

Palo Verde 1 U1R19

PVNGS1 20160401

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
164	75	5.06	94	PLP			92	09C	33.57		VS3	TEC	.610	ZYAX2	28	C	76	HR	
164	75	18.86	72	PLP			8	09C	34.00		09C	10C	.600	NPAHZ	30	C	8	HR	DQA
165	76	2.20	107	PLP			60	09C	34.20		VS3	TEC	.610	ZYAX2	28	C	77	HR	
165	76	10.19	64	PLP			8	09C	34.05		09C	10C	.600	NPAHZ	30	C	10	HR	DQA
32	79	19.94	113	PLP			76	TSH	.49		01H	TEH	.610	ZYAX2	44	H	14	HR	
32	79	51.49	81	PLP			8	TSH	.35		TSH	01H	.580	NPUFZ	46	H	9	HR	DQA
33	80	4.50	79	PLP			164	TSH	.94		01H	TEH	.610	ZYAX2	44	H	13	HR	
33	80	10.91	94	PLP			8	TSH	.56		TSH	01H	.580	NPUFZ	46	H	11	HR	DQA
32	81	13.70	97	PLP			164	TSH	1.66		01H	TEH	.610	ZYAX2	44	H	19	HR	
32	81	41.18	84	PLP			8	TSH	1.34		TSH	01H	.580	NPUFZ	46	H	13	HR	DQA
3	192	13.08	105	PLP			72	03H	33.35		08H	TEH	.610	ZYAX2	41	H	12	HR	
3	192	28.22	75	PLP			8	03H	33.27		03H	04H	.580	NPUFZ	46	H	17	HR	DQA

SG - 12 SI PLP Calls

Palo Verde 1 U1R19

PVNGS1 20160401

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ROW	COL	VOLTS	DEG	IND	PER	CRLEN	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	IDX	UTIL1	UTIL2
76	163	16.13	90	PLP			160	TSH	.68		01H	TEH	.610	ZYAX2	29	H	16		SR
76	163	39.64	82	PLP			8	TSH	.83		TSH	TSH	.600	NPAHZ	35	H	7	SR	DQA

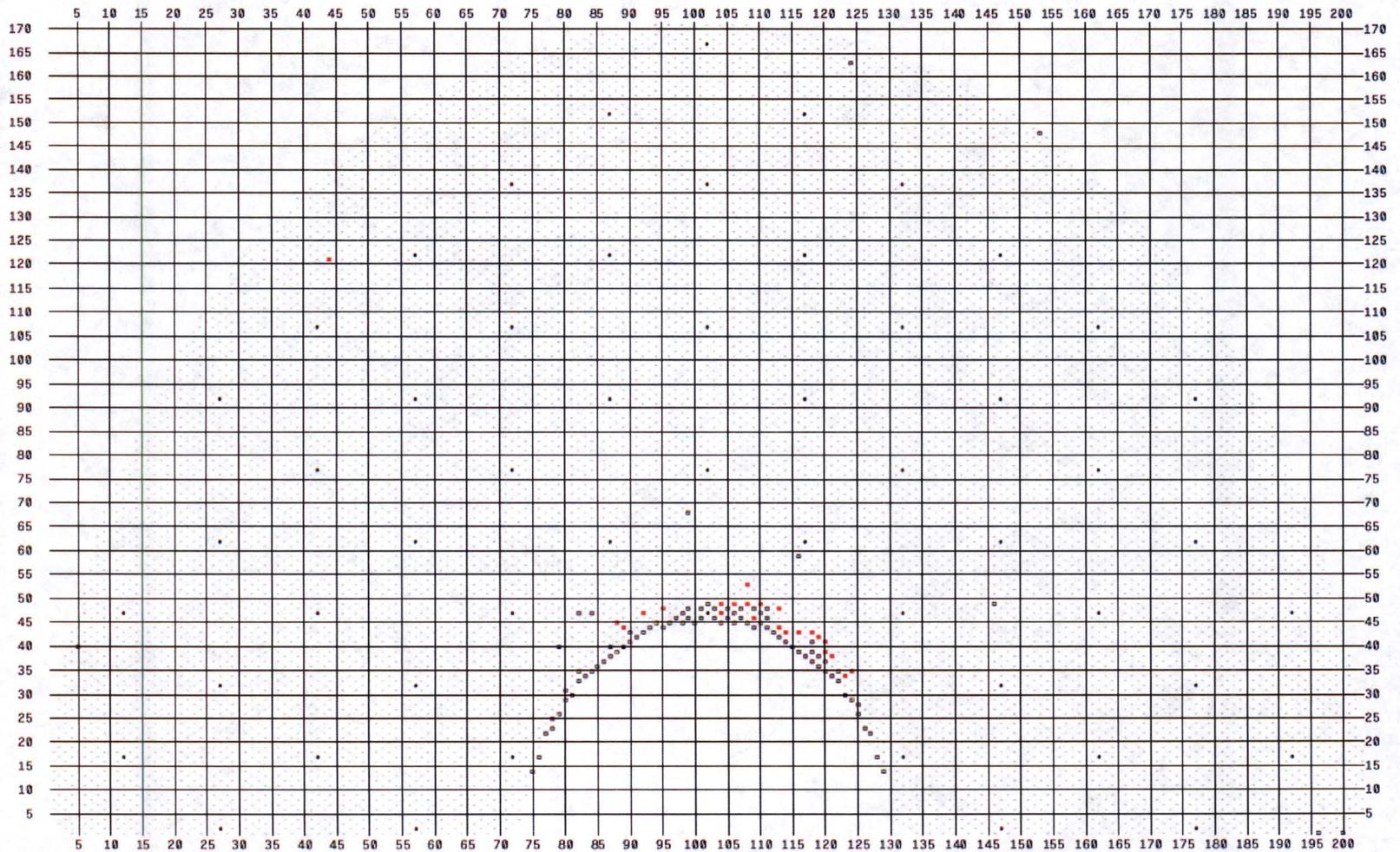
APPENDIX E

PLUG MAPS

SG - 11 Tubes Plugged in U1R19

Palo Verde U1R19 PVNGS1 1RSG

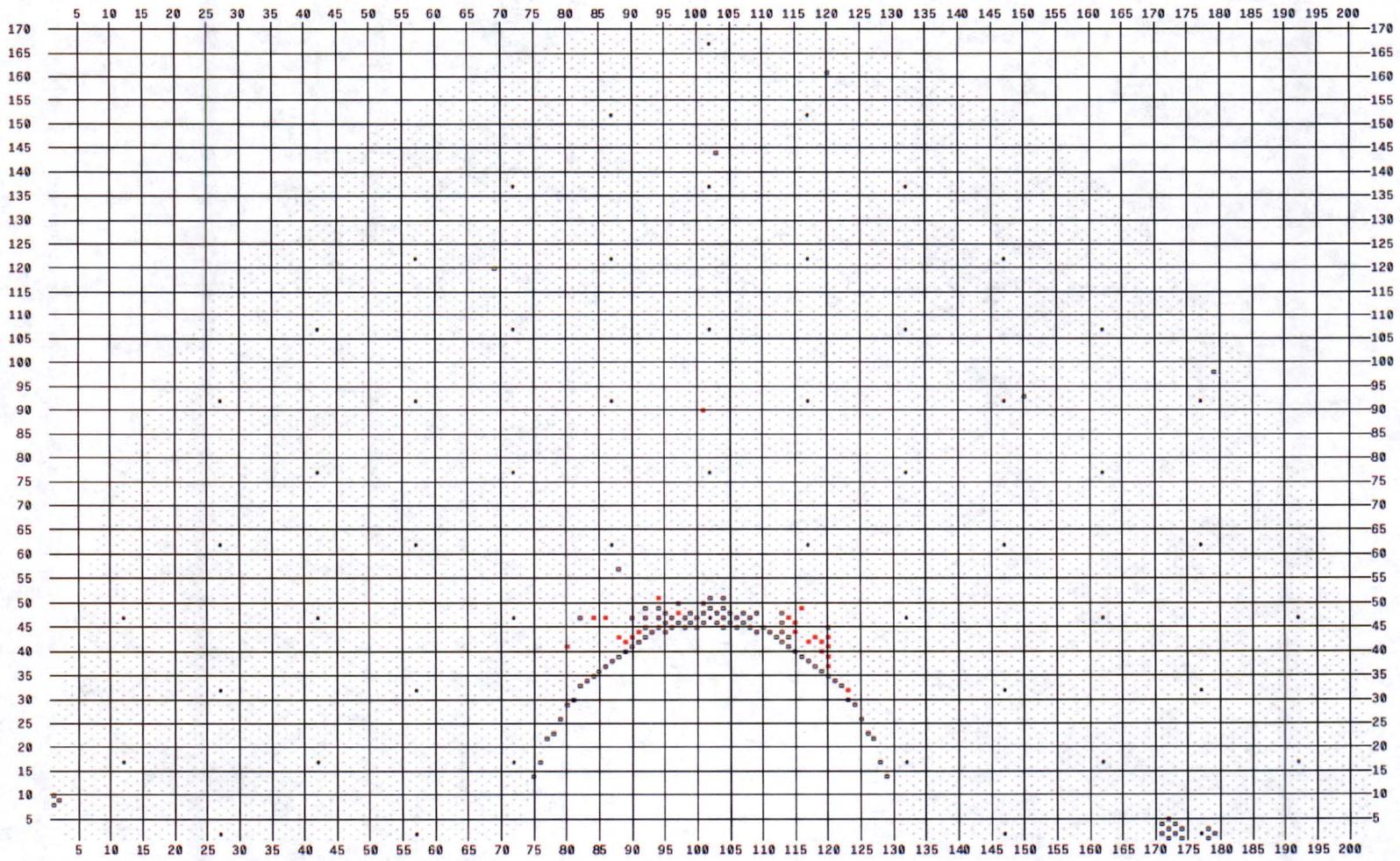
- 53 Stay Rod
- 88 Plugged Tube
- 23 Tube Plugged in U1R19



SG - 12 Tubes Plugged in U1R19

Palo Verde U1R19 PVNGS1 1RSG

- 53 Stay Rod
- 107 Plugged Tube
- 23 Tube Plugged in U1R19



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APPENDIX F

FORM NIS-1

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	1			
4. OWNERS CERTIFICATE OF AUTHORIZATION			NONE	
5. COMMERCIAL SERVICE DATE			1-28-86	
6. COMPONENTS INSPECTED:				
COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO
1MRCEE01A STEAM GENERATOR 11	Ansaldo	224	NA	173
1MRCEE01B STEAM GENERATOR 12	Ansaldo	225	NA	174

APS

NIS – 1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES

April 2016

8. INSPECTION INTERVAL

7-18-08 to 7-17-18

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.

A summary of the tubes with indications of degradation is listed in Appendix B and C of this report for SG 11 and 12 respectively. The tubes identified on page 3 were plugged as a result of this examination.

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 _____ SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY

Hansen, Douglas B(Z41530)

Digitally signed by Hansen, Douglas B(Z41530)
DN: cn=Hansen, Douglas B(Z41530)
Date: 2016.10.12 09:13:16 -07'00'

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 04-01-16 TO 10-20-16, 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 **Hogstrom, Robert (YH2450)**

Digitally signed by Hogstrom, Robert (YH2450)
DN: cn=Hogstrom, Robert (YH2450)
Date: 2016.10.20 18:00:48 -07'00'

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

DATE _____

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

Plugged Tubes (Row – Column):

SG 11

ROW	COL
34	123
35	124
38	121
39	120
41	120
42	119
43	114
43	116
43	118
44	89
44	113
45	88
46	109
47	92
47	104
48	95
48	113
49	104
49	106
49	108
49	110
53	108
121	44

SG 12

ROW	COL
32	123
37	120
39	120
40	119
41	80
41	120
42	89
42	117
42	119
43	88
43	90
43	118
43	120
44	91
44	115
46	115
47	84
47	86
47	114
48	97
49	116
51	94
90	101